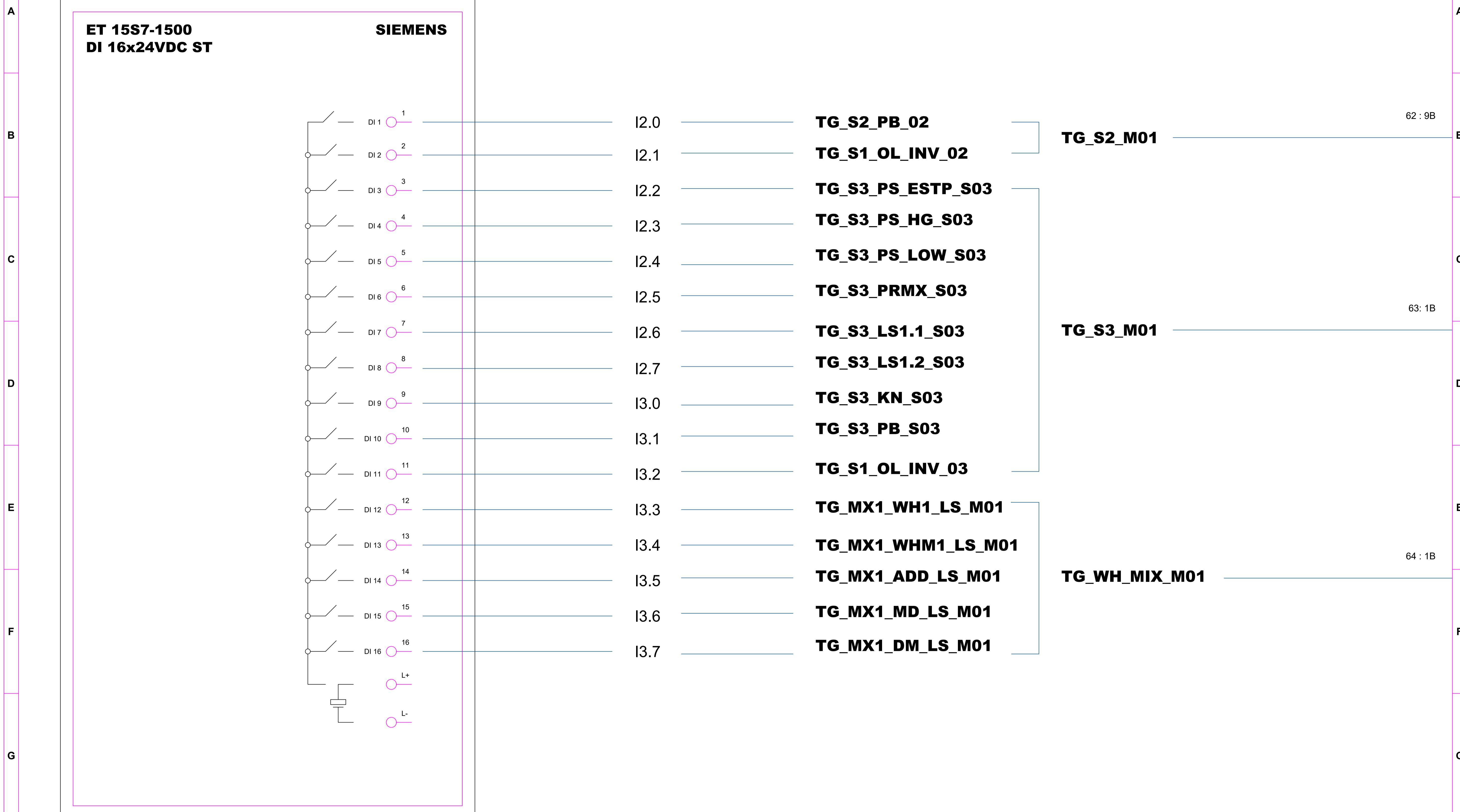
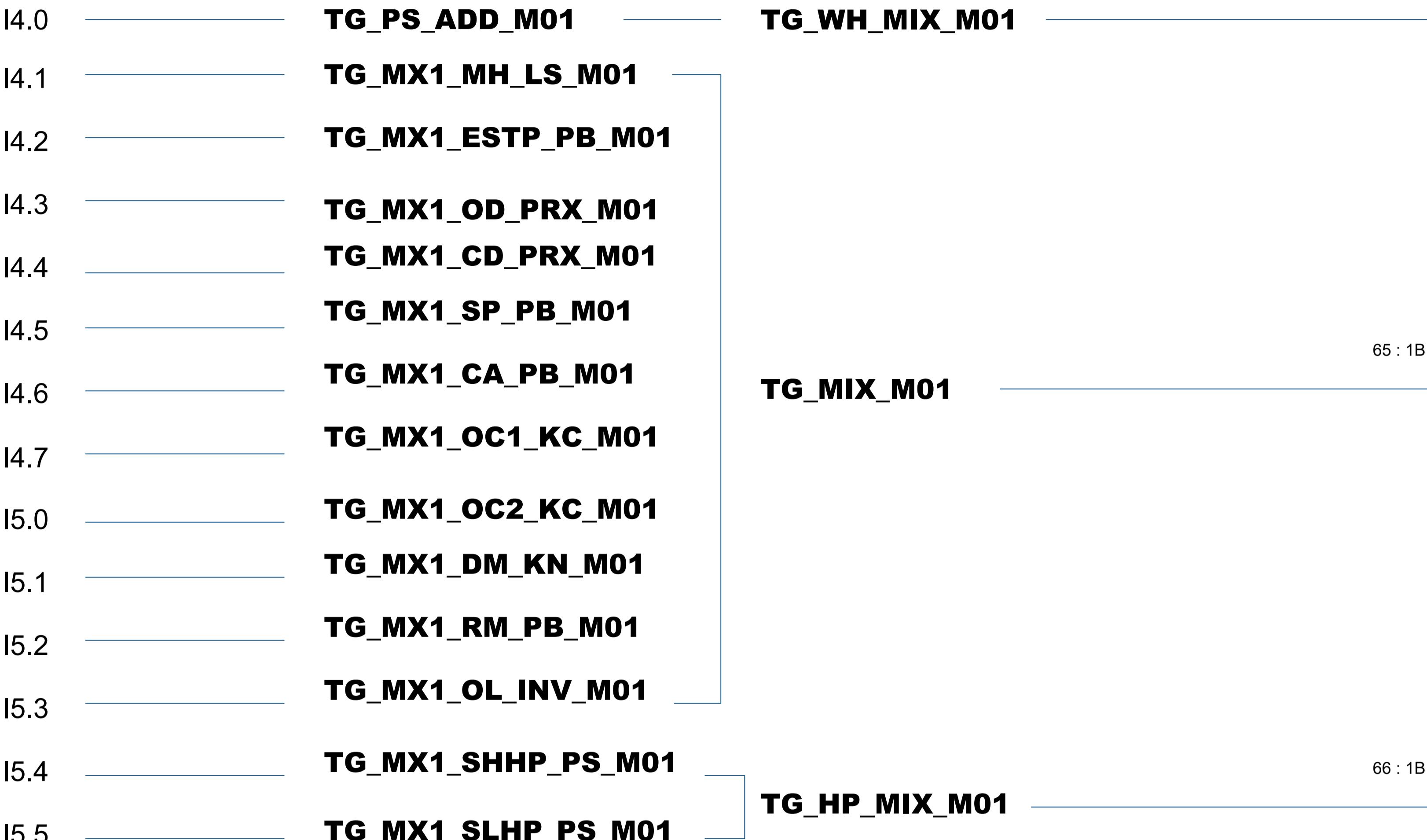
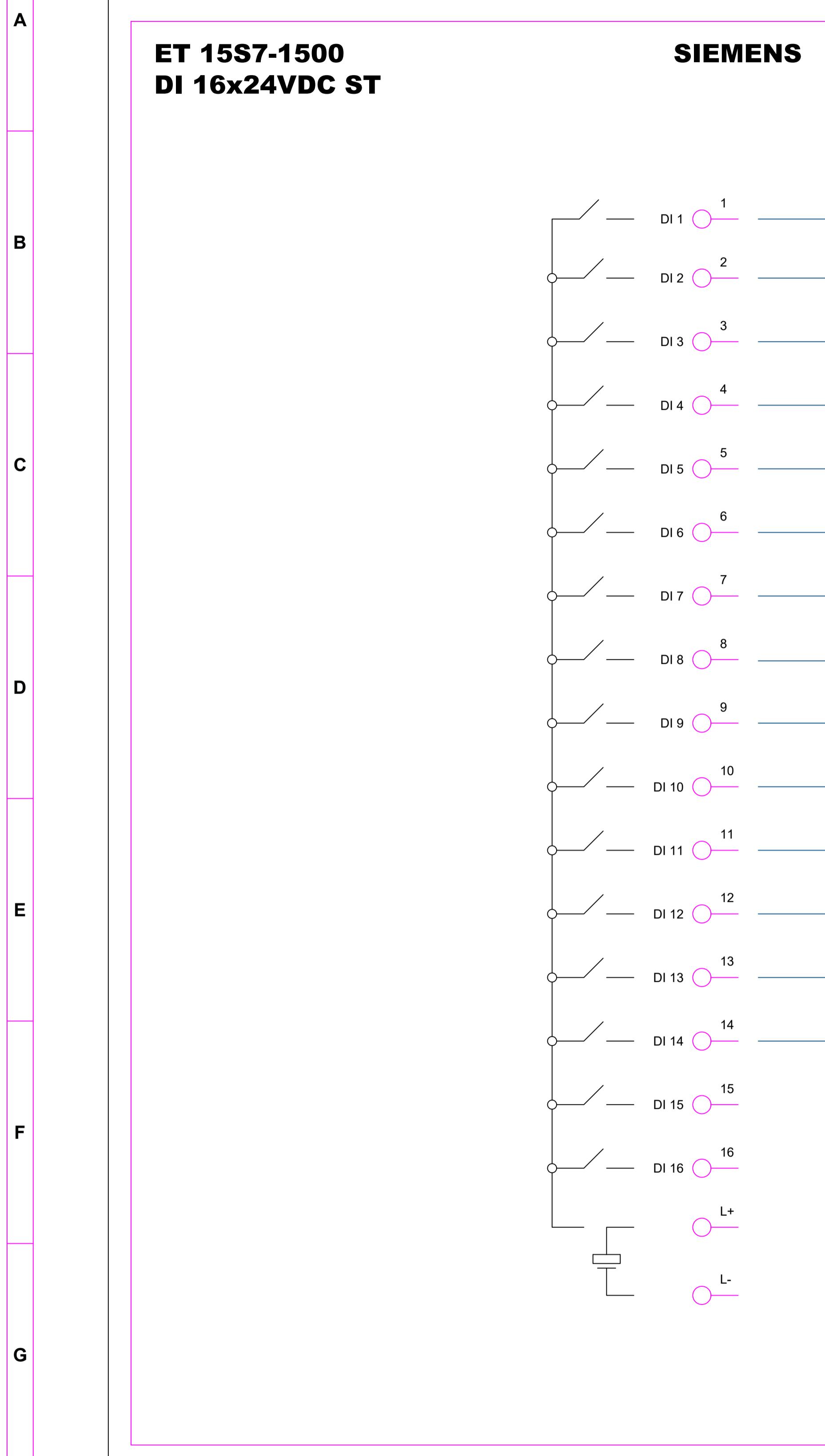


1 2 3 4 5 6 7 8 9 10 11 12

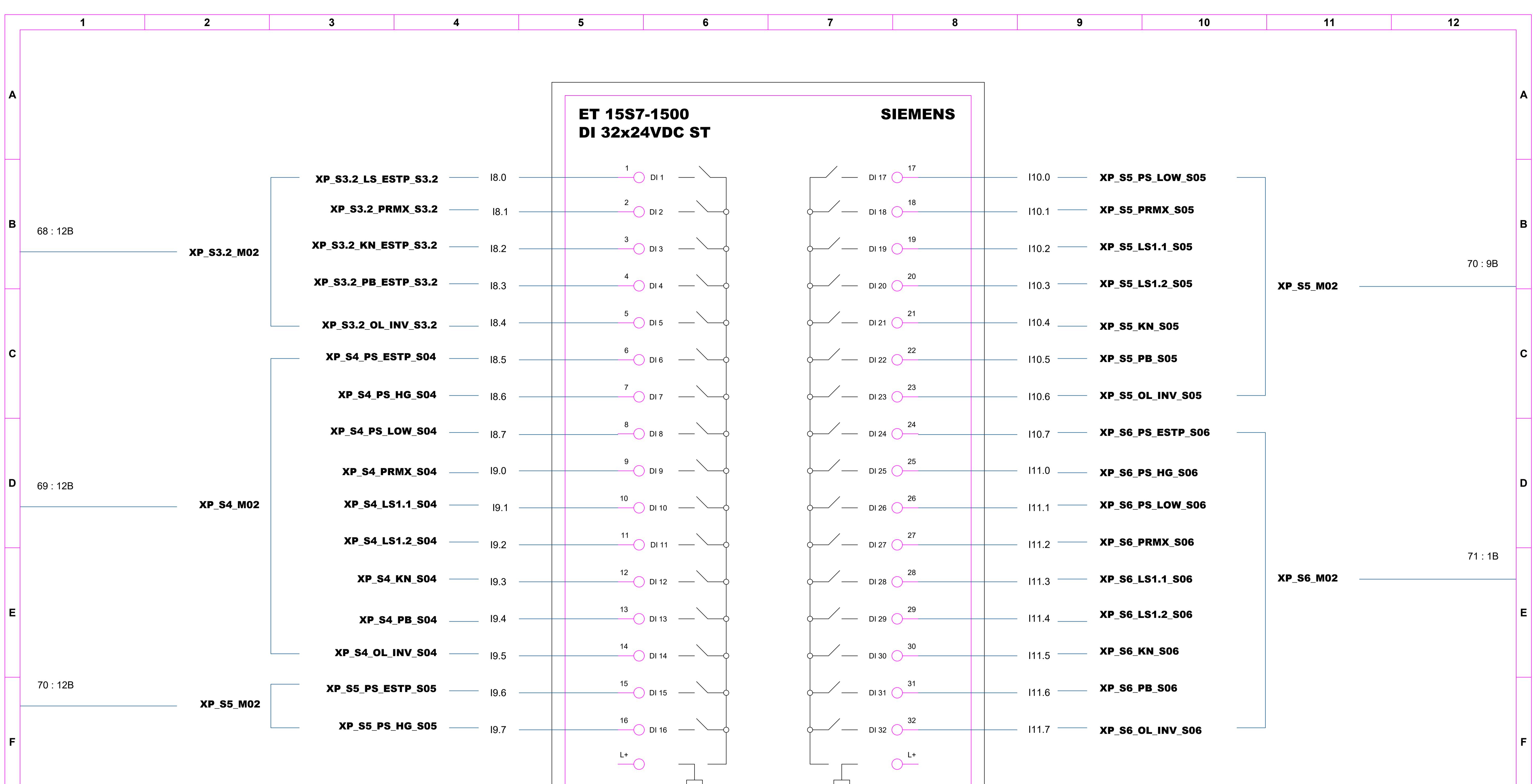


H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA		Title	WAMGROUP®	Project						
	4	21-05-2025			Drawn											
					Appr.											
				Norm		Wiring Control Panel										
						2	3	4	5	6	7	8	9	10	11	12

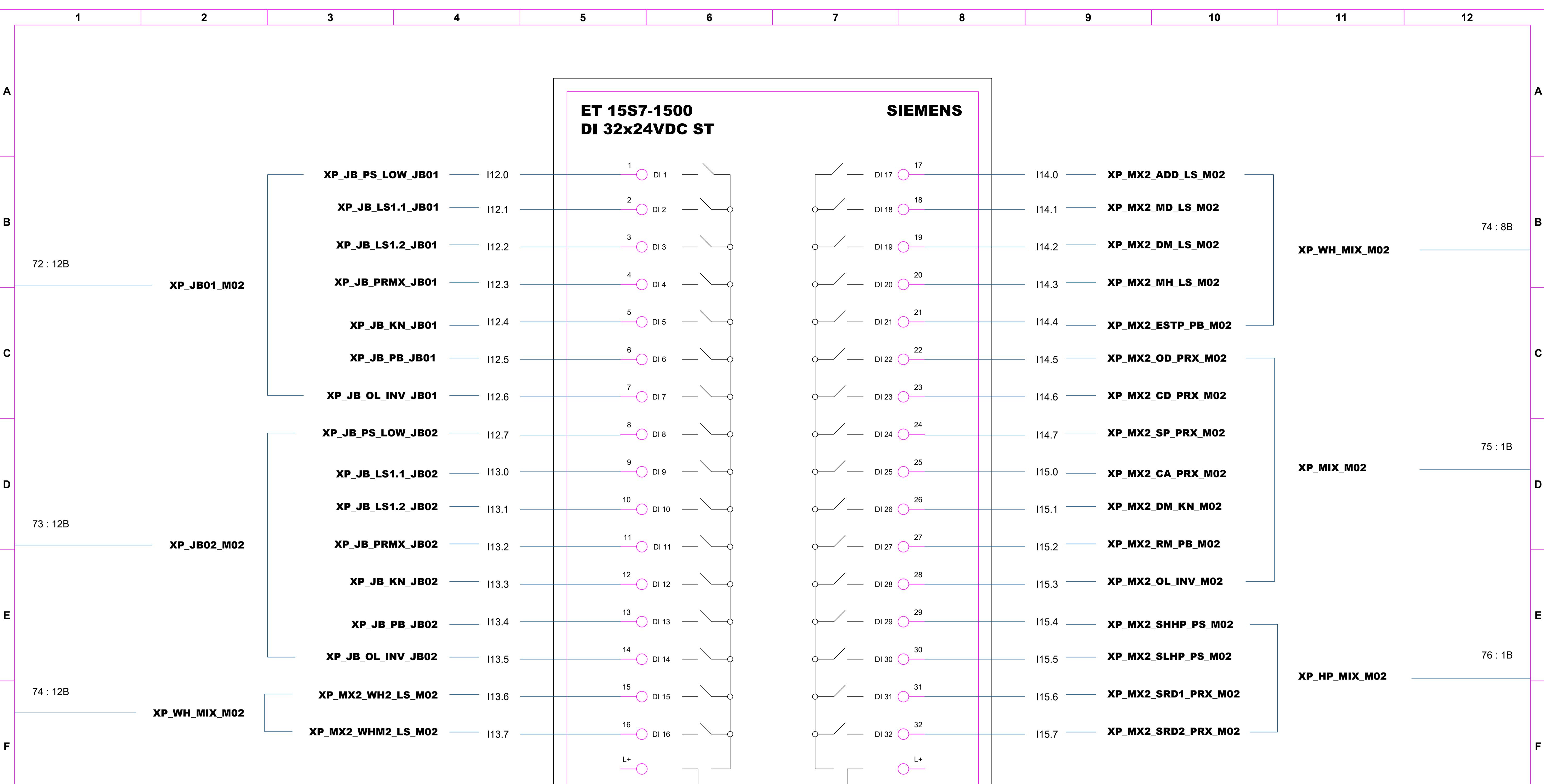
1 2 3 4 5 6 7 8 9 10 11 12



Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	WAMGROUP	Title <b>Digital Input 3</b>	Project Address Tile Grouting		
4	21-05-2025		Drawn	RAFLI						
			Appr.							
			Norm		Wiring Control Panel				+ Sheet No.45 121 Sheet	H
2			3	4			7	8	9	10
					5					11
					6					12



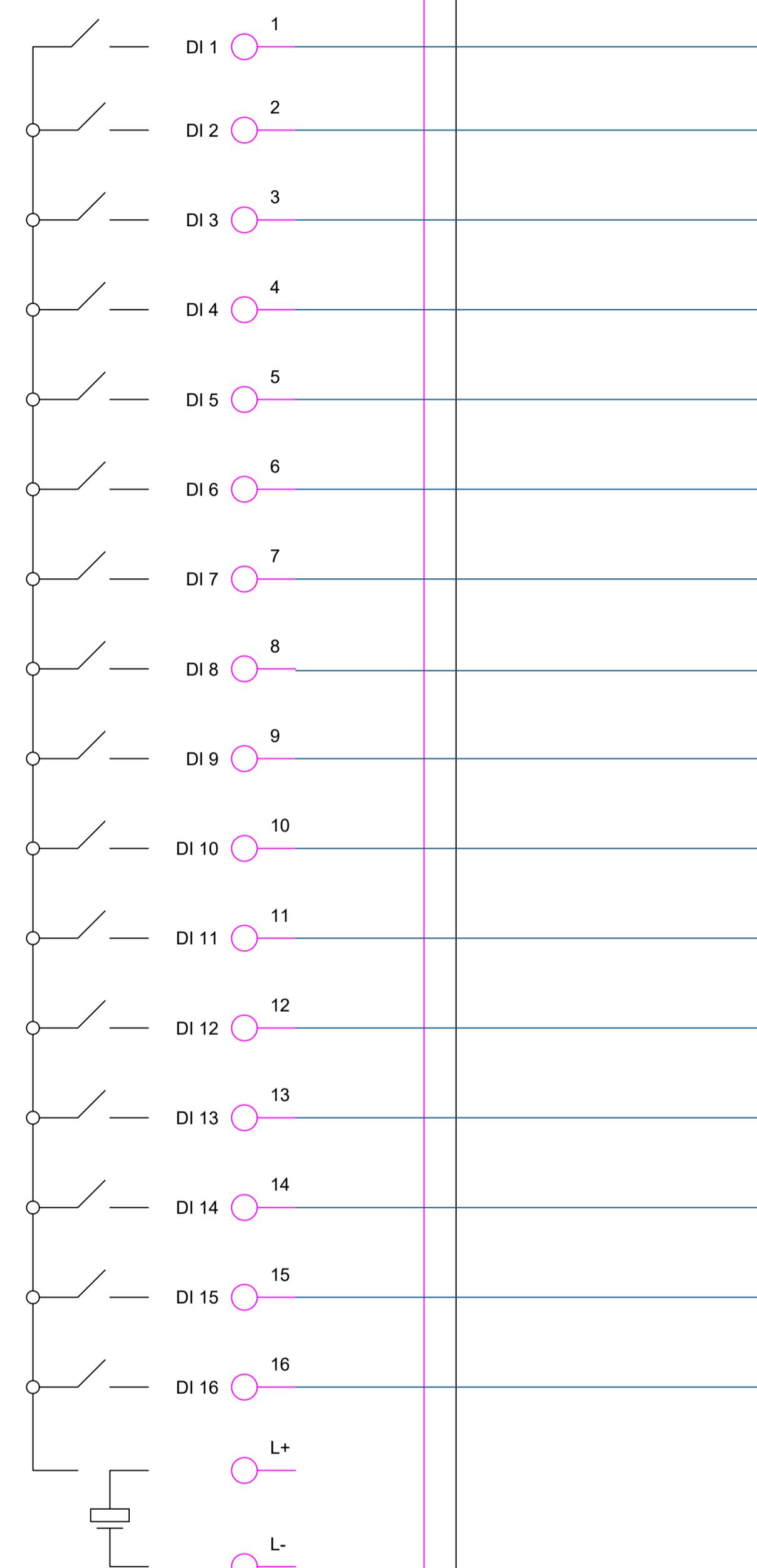
H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA MU mortar utama SAINT-GOBAIN	Title WAMGROUP® Digital Input 1 Pro-X Batching Sheet No.46 121 Sheet	Project		H	
4	21-05-2025			Drawn	RAFLI			+			
				Appr.				Sheet No.46			
				Norm				121 Sheet			
						Wiring Control Panel					
						2	3	4	5	6	7
						8	9	10	11	12	





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SIEMENS

**ET 15S7-1500  
DI 16x24VDC ST**

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I20.0	<b>NS_S7_PS_ESTP_S07</b>
I20.1	<b>NS_S7_PS_HG_S07</b>
I20.2	<b>NS_S7_PS_LOW_S07</b>
I20.3	<b>NS_S7_PRMX_S07</b>
I20.4	<b>NS_S7_LS1.1_S07</b>
I20.5	<b>NS_S7_LS1.2_S07</b>
I20.6	<b>NS_S7_KN_S07</b>
I20.7	<b>NS_S7_PB_S07</b>
I21.0	<b>NS_S7_OL_INV_S07</b>
I21.1	<b>NS_S8_PS_ESTP_S08</b>
I21.2	<b>NS_S8_PS_HG_S08</b>
I21.3	<b>NS_S8_PS_LOW_S08</b>
I21.4	<b>NS_S8_PRMX_S08</b>
I21.5	<b>NS_S8_LS1.1_S08</b>
I21.6	<b>NS_S8_LS1.2_S08</b>
I21.7	<b>NS_S8_KN_S08</b>

**NS\_S07\_M03**

78 : 1B

**NS\_S08\_M03**

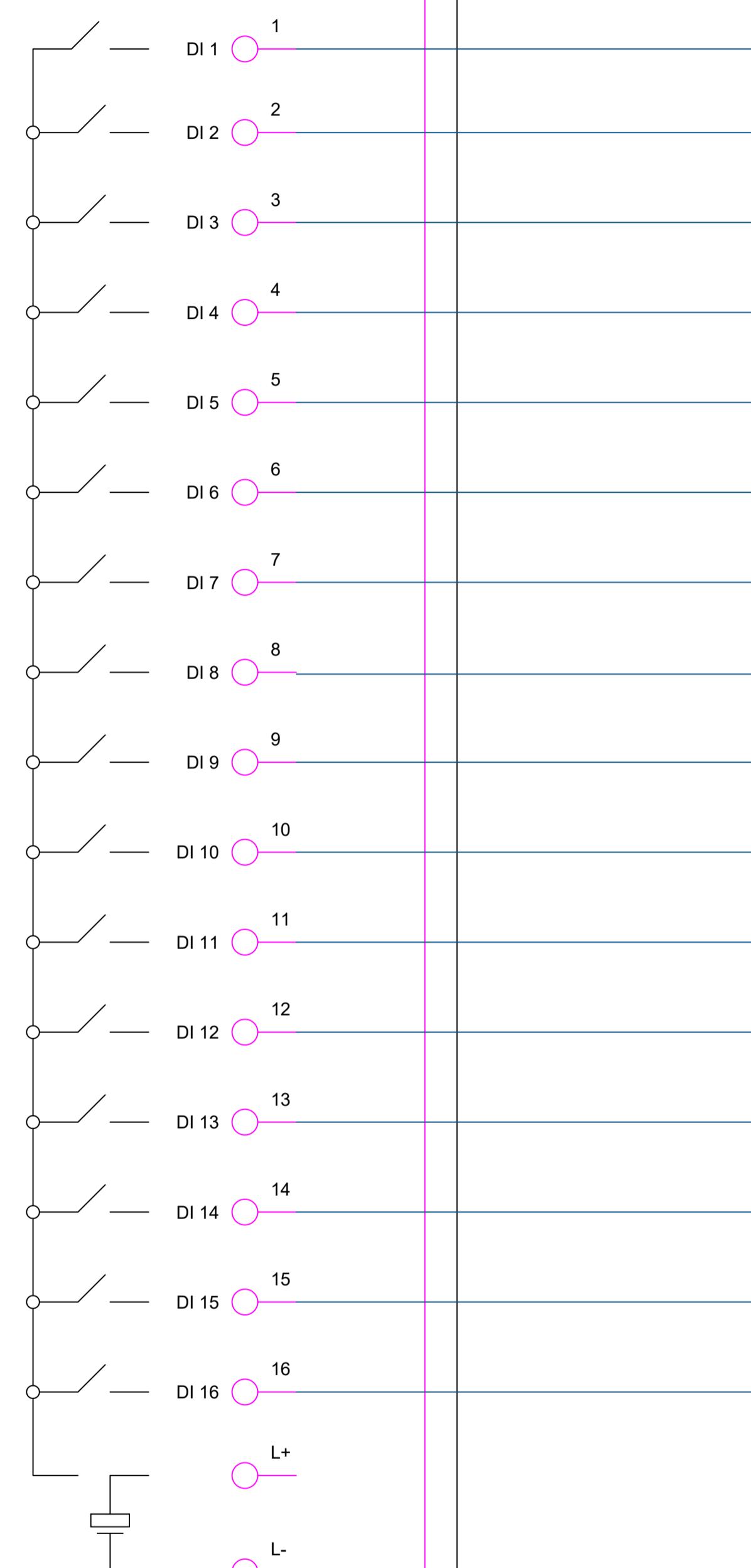
79 : 1B

Rev.	Date	Remarks	Date	Drawn	Appr.	Title	Project	
4	21-05-2025			RAFLI		P.T. CIPTA MORTAR UTAMA	WAMGROUP	+ Sheet No.49
						SAINT-GOBAIN		
						Wiring Control Panel	Non Sanded Batching	121 Sheet

**Digital Input 1**



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**ET 15S7-1500  
DI 16x24VDC ST****SIEMENS**

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I24.0 \_\_\_\_\_ **NS\_S10\_LS1.2\_S10**I24.1 \_\_\_\_\_ **NS\_S10\_KN\_S10**I24.2 \_\_\_\_\_ **NS\_S10\_PB\_S10**I24.3 \_\_\_\_\_ **NS\_S7\_OL\_INV\_S10**I24.4 \_\_\_\_\_ **NS\_MX3\_WH3\_LS\_M03**I24.5 \_\_\_\_\_ **NS\_MX3\_WHM3\_LS\_M03**I24.6 \_\_\_\_\_ **NS\_MX3\_ADD\_LS\_M03**I24.7 \_\_\_\_\_ **NS\_MX3\_MD\_LS\_M03**I25.0 \_\_\_\_\_ **NS\_MX3\_DM\_LS\_M03**I25.1 \_\_\_\_\_ **NS\_MX3\_MH\_LS\_M03**I25.2 \_\_\_\_\_ **NS\_MX3\_ESTP\_PB\_M03**I25.3 \_\_\_\_\_ **NS\_MX3\_OD\_PRX\_M03**I25.4 \_\_\_\_\_ **NS\_MX3\_CD\_PRX\_M03**I25.5 \_\_\_\_\_ **NS\_MX3\_SP\_PB\_M03**I25.6 \_\_\_\_\_ **NS\_MX3\_CA\_PB\_M03**I25.7 \_\_\_\_\_ **NS\_MX3\_OC1\_KC\_M03****NS\_S10\_M03**

81 : 7B

**NS\_WH\_MIX\_M03**

82 : 1B

**NS\_MIX\_M03**

83 : 1B

H

Rev.	Date	Remarks	Date	Drawn	Appr.	P.T. CIPTA MORTAR UTAMA	Title	Project	
4	21-05-2025			RAFLI			Digital Input 3	Non Sanded Batching	+
									Sheet No.51
									121 Sheet

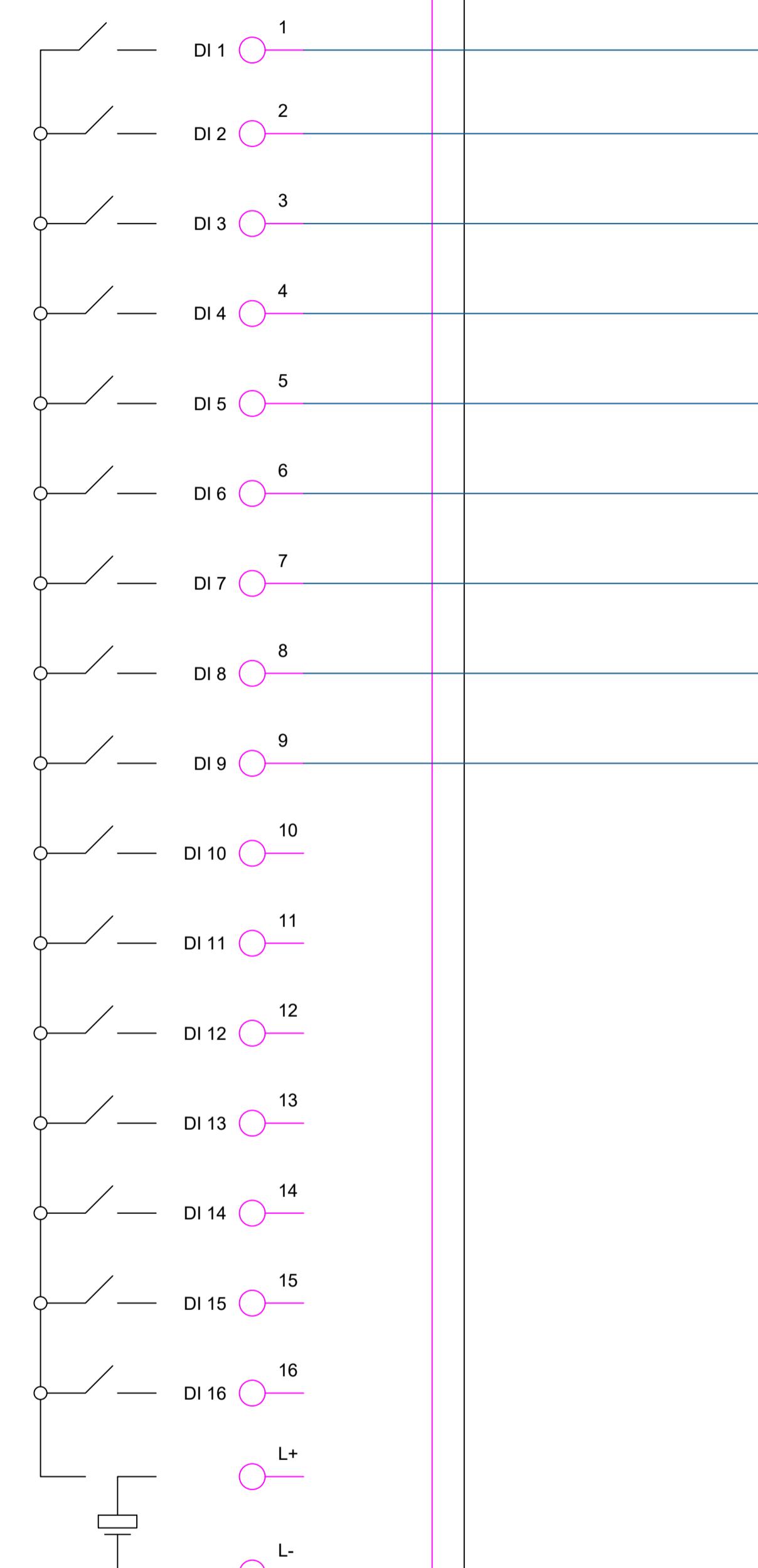


1 2 3 4 5 6 7 8 9 10 11 12

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SIEMENS

ET 15S7-1500  
DI 16x24VDC ST



I26.0 I26.1 I26.2 I26.3 I26.4 I26.5 I26.6 I26.7 I27.0

NS\_MX3\_OC2\_KC\_M03  
NS\_MX3\_OC3\_KC\_M03  
NS\_MX3\_DM\_KN\_M03  
NS\_MX3\_RM\_PB\_M03  
NS\_MX3\_OI\_INV\_M03  
NS\_MX3\_SHHP\_PS\_M03  
NS\_MX3\_SLHP\_PS\_M03  
NS\_MX3\_BVUP1.1\_PS\_M03  
NS\_MX3\_SBVUP1.2\_PS\_M03

NS\_MIX\_M03

NS\_HP\_MIX\_M03

83 : 8B

85 : 1B

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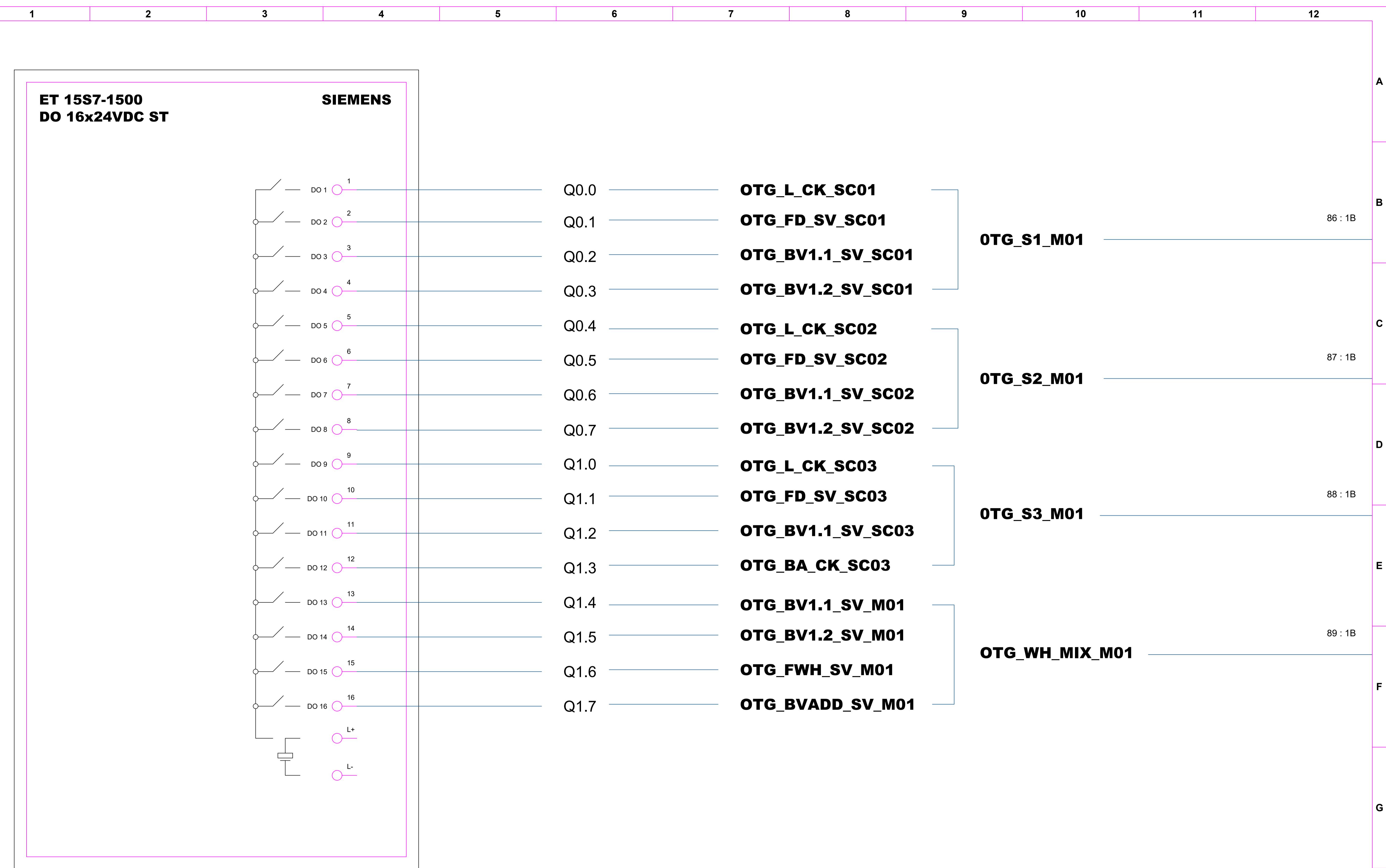
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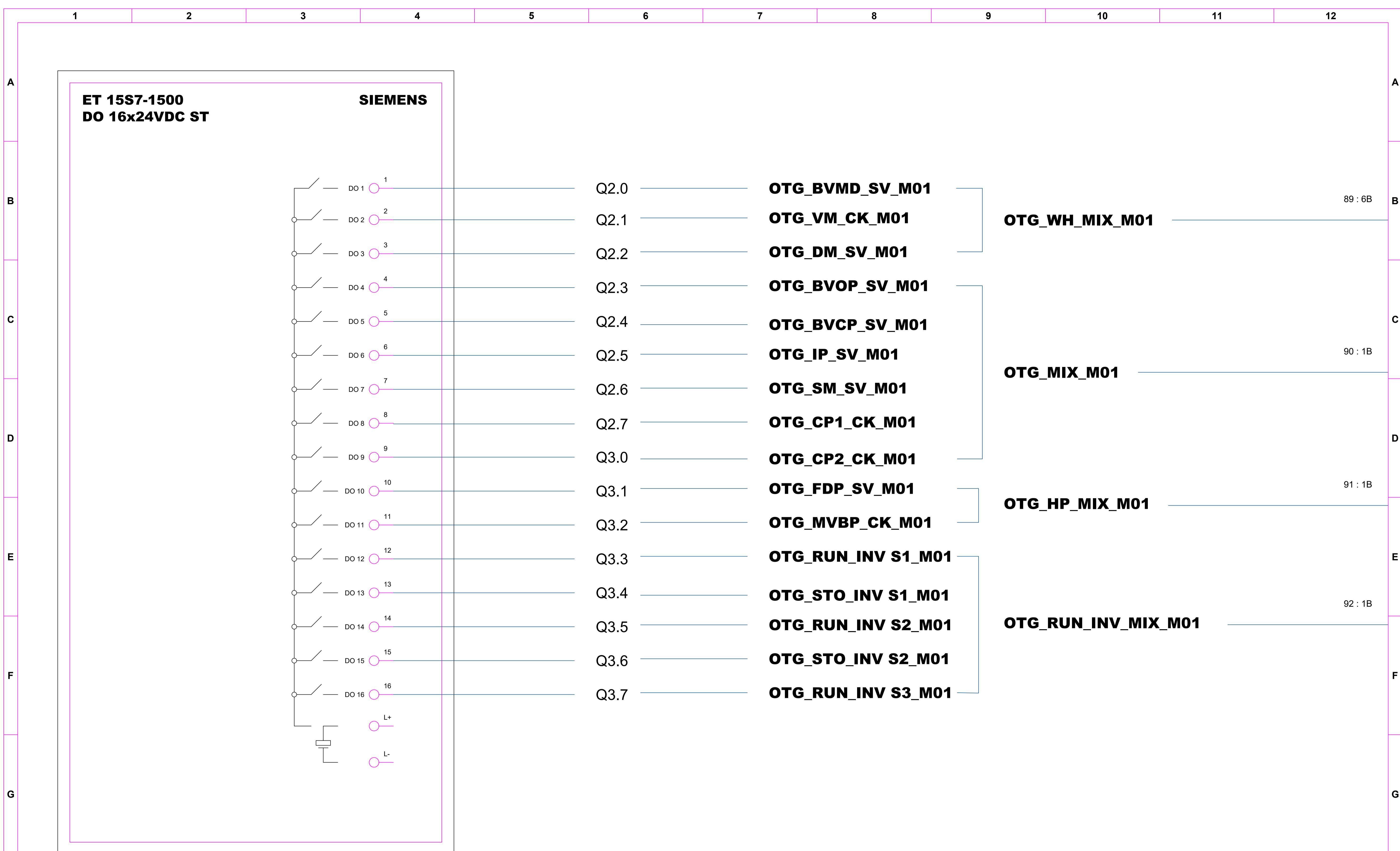
Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 WAMGROUP	Title <b>Digital Input 4</b>	Project Non Sanded Batching			
4	21-05-2025		Drawn	RAFLI							
			Appr.								
			Norm		Wiring Control Panel				+ Sheet No.52 121 Sheet		

2 3 4 5 6 7 8 9 10 11 12

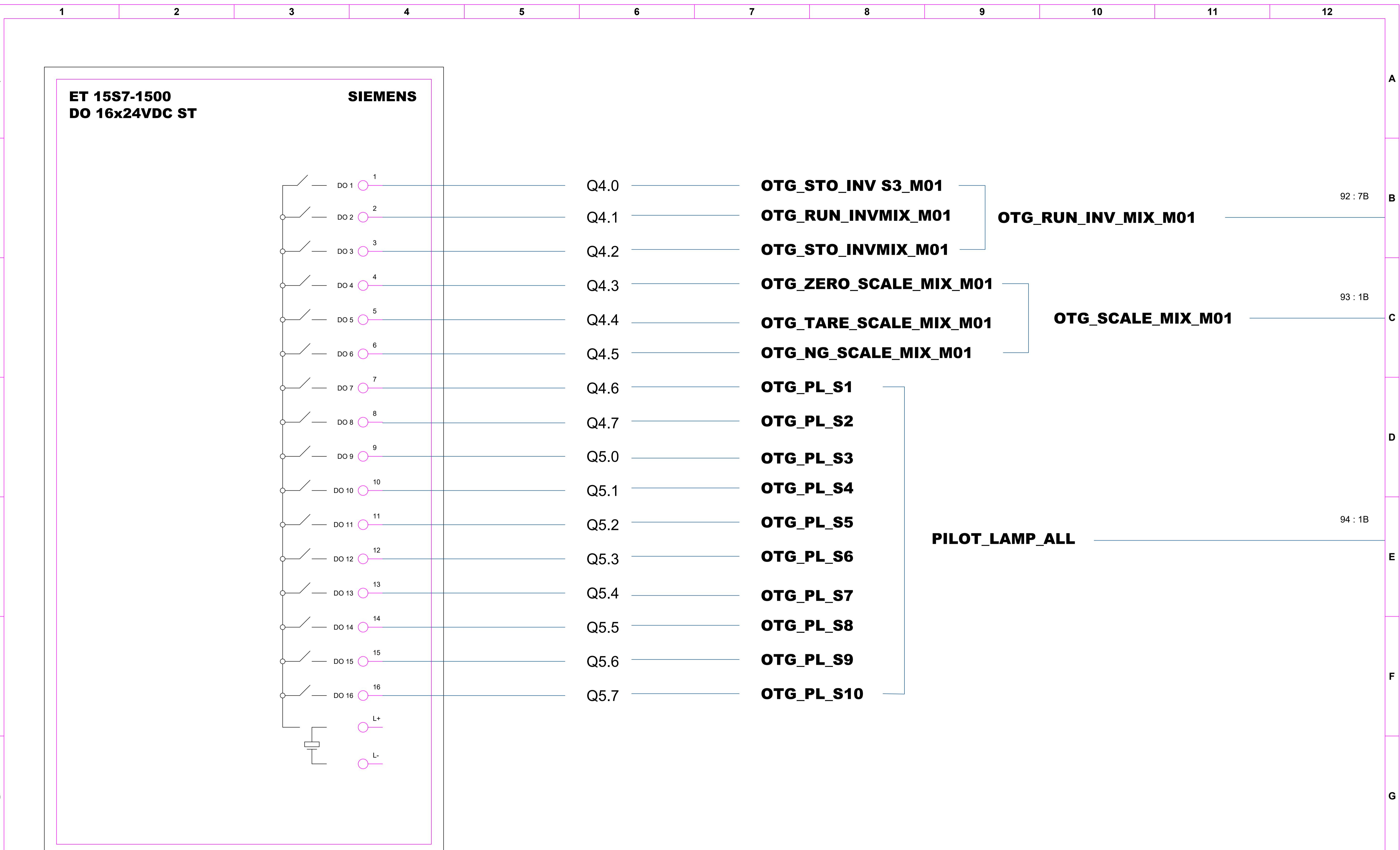


H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA SAINT-GOBAIN	 	Title	Project		
	4	21-05-2025		Drawn	RAFLI					+	
				Appr.						Sheet No.53	
				Norm						121 Sheet	
						Wiring Control Panel					
						7	8	9	10	11	12
	2	3	4	5	6						

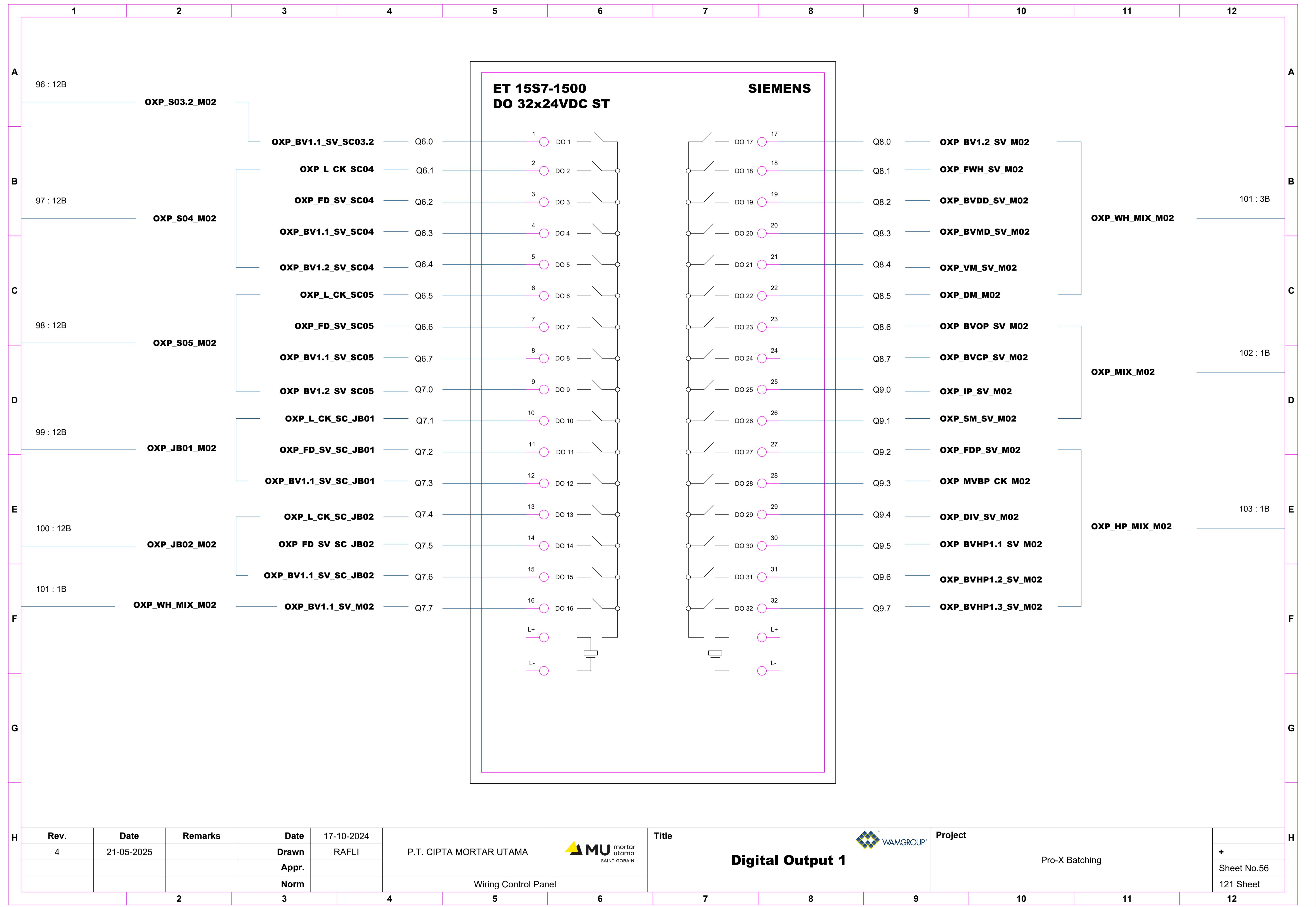
1 2 3 4 5 6 7 8 9 10 11 12



Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA		Title <b>Digital Output 2</b>	Project Address Tile Grouting		
4	21-05-2025		Drawn	RAFLI						
			Appr.							
			Norm		Wiring Control Panel				+ Sheet No.54 121 Sheet	
2	3	4	5	6	7	8	9	10	11	12



H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	  <b>Digital Output 3</b>	Title	Project	
	4	21-05-2025		Drawn	RAFLI					+ Sheet No.55
				Appr.						121 Sheet
				Norm						Wiring Control Panel





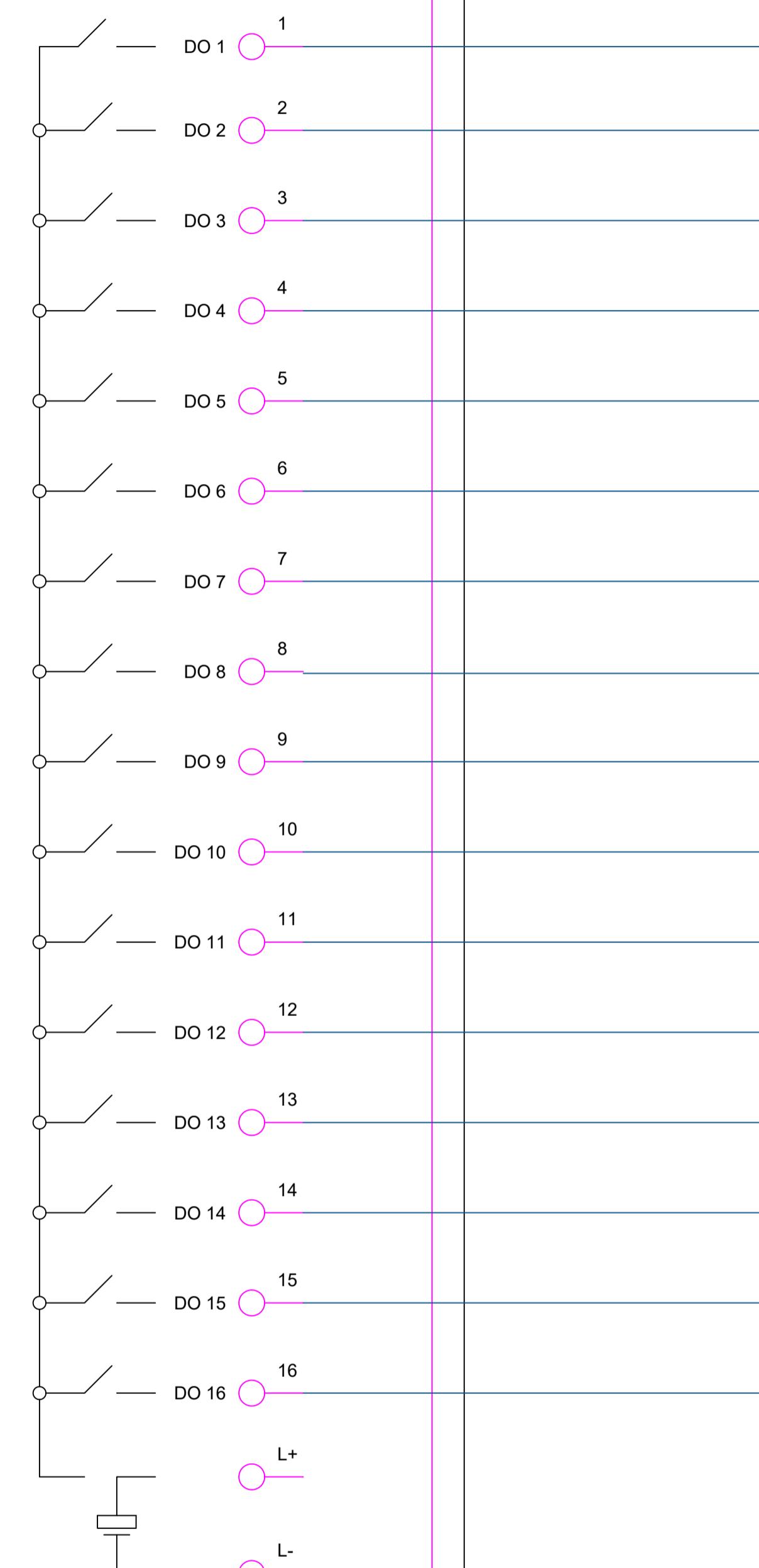
H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA		Title	Digital Output 2	Project		
	4	21-05-2025		Drawn	RAFLI							
				Appr.								
				Norm		Wiring Control Panel					Pro-X Batching	
H	2	3	4	5	6						+	
											Sheet No.57	
											121 Sheet	

1 2 3 4 5 6 7 8 9 10 11 12

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SIEMENS

**ET 15S7-1500  
DO 16x24VDC ST**



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Q14.0 Q14.1 Q14.2 Q14.3 Q14.4 Q14.5 Q14.6 Q14.7 Q15.0 Q15.1 Q15.2 Q15.3 Q15.4 Q15.5 Q15.6 Q15.7

**ONS\_L\_CK\_SC07**  
**ONS\_FD\_SV\_SC07**  
**ONS\_BV1.1\_SV\_SC07**  
**ONS\_BV1.2\_SV\_SC07**  
**ONS\_L\_CK\_SC08**  
**ONS\_BV\_VM\_SC08**  
**ONS\_BV1.1\_SV\_SC08**  
**ONS\_BV1.2\_SV\_SC08**  
**ONS\_L\_CK\_SC09**  
**ONS\_FD\_SV\_SC09**  
**ONS\_BV1.1\_SV\_SC09**  
**ONS\_BV1.2\_SV\_SC09**  
**ONS\_L\_CK\_SC10**  
**ONS\_FD\_SV\_SC10**  
**ONS\_BV1.1\_SV\_SC10**  
**ONS\_BV1.2\_SV\_SC10**

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**ONS\_S07\_M03**

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**ONS\_S08\_M03**

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**ONS\_S09\_M03**

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**ONS\_S10\_M03**

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Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 WAMGROUP	Title <b>Digital Output 1</b>	Project Non Sanded Batching	
4	21-05-2025		Drawn	RAFLI					
			Appr.						
			Norm		Wiring Control Panel				+ Sheet No.58 121 Sheet

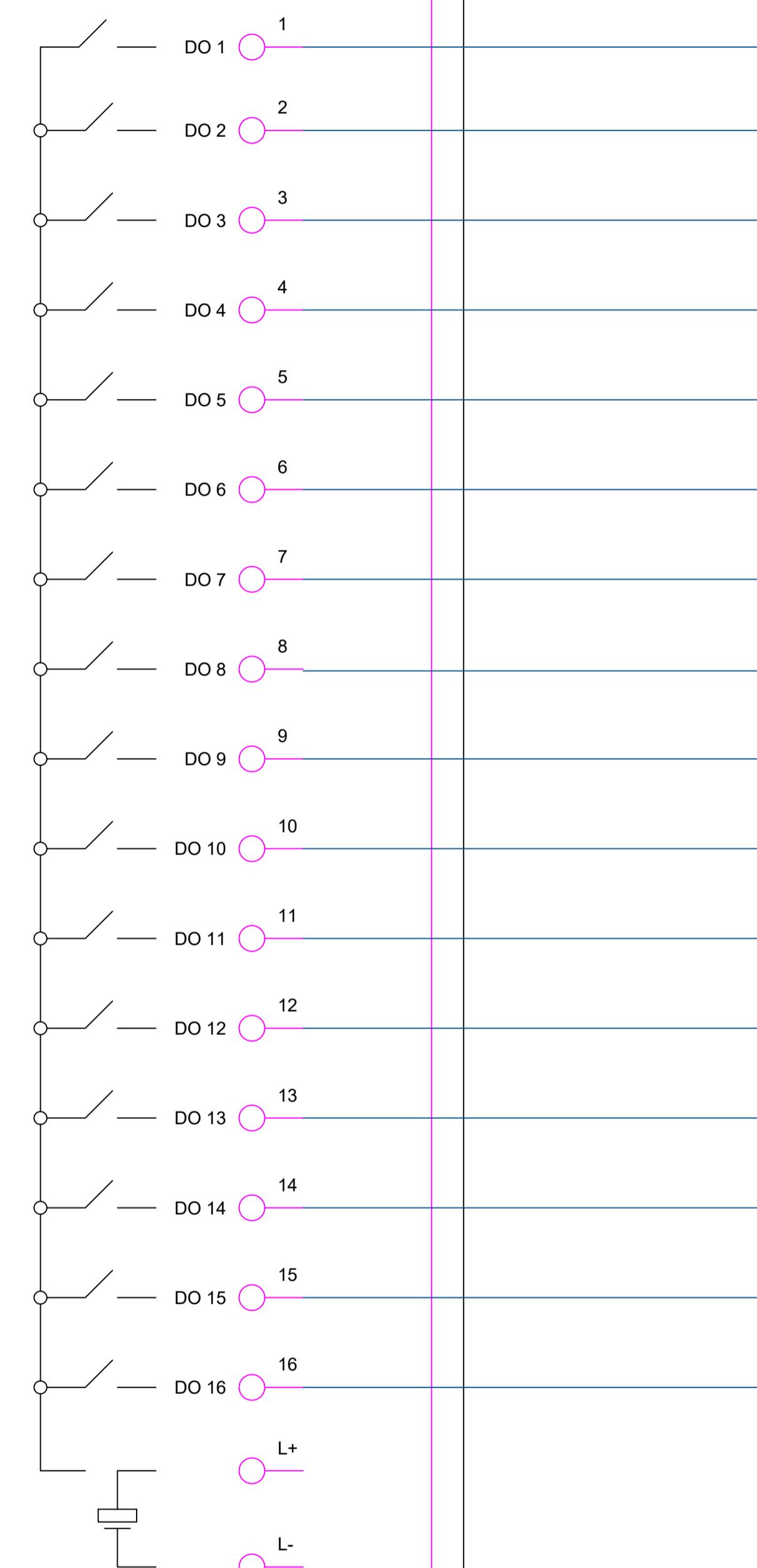
2 3 4 5 6 7 8 9 10 11 12

1 2 3 4 5 6 7 8 9 10 11 12

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**ET 15S7-1500  
DO 16x24VDC ST**

**SIEMENS**



Q16.0 Q16.1 Q16.2 Q16.3 Q16.4 Q16.5 Q16.6 Q16.7 Q17.0 Q17.1 Q17.2 Q17.3 Q17.4 Q17.5 Q17.6 Q17.7

**ONS\_BV1.1\_SV\_M03**  
**ONS\_BV1.2\_SV\_M03**  
**ONS\_FWH\_SV\_M03**  
**ONS\_BVDD\_SV\_M03**  
**ONS\_BVMD\_SV\_M03**  
**ONS\_VM1.1\_SV\_M03**  
**ONS\_VM1.2\_SV\_M03**  
**ONS\_DM\_M03**  
**ONS\_BVOP\_SV\_M03**  
**ONS\_BVCP\_SV\_M03**  
**ONS\_IP\_SV\_M03**  
**ONS\_SM\_SV\_M03**  
**ONS\_MX3\_OC1\_KC\_M03**  
**ONS\_MX3\_OC2\_KC\_M03**  
**ONS\_MX3\_OC3\_KC\_M03**  
**ONS\_FUH\_SV\_M03**

**ONS\_WH\_MIX\_M03**

113 : 1B

**ONS\_MIX\_M03**

114 : 1B

**ONS\_HP\_MIX\_M03**

115 : 1B

H

Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA		Title	<b>Digital Output 2</b>	Project			
4	21-05-2025		Drawn	RAFLI								
			Appr.									
			Norm		Wiring Control Panel					Non Sanded Batching	+	Sheet No.59
											121 Sheet	

2 3 4 5 6 7 8 9 10 11 12

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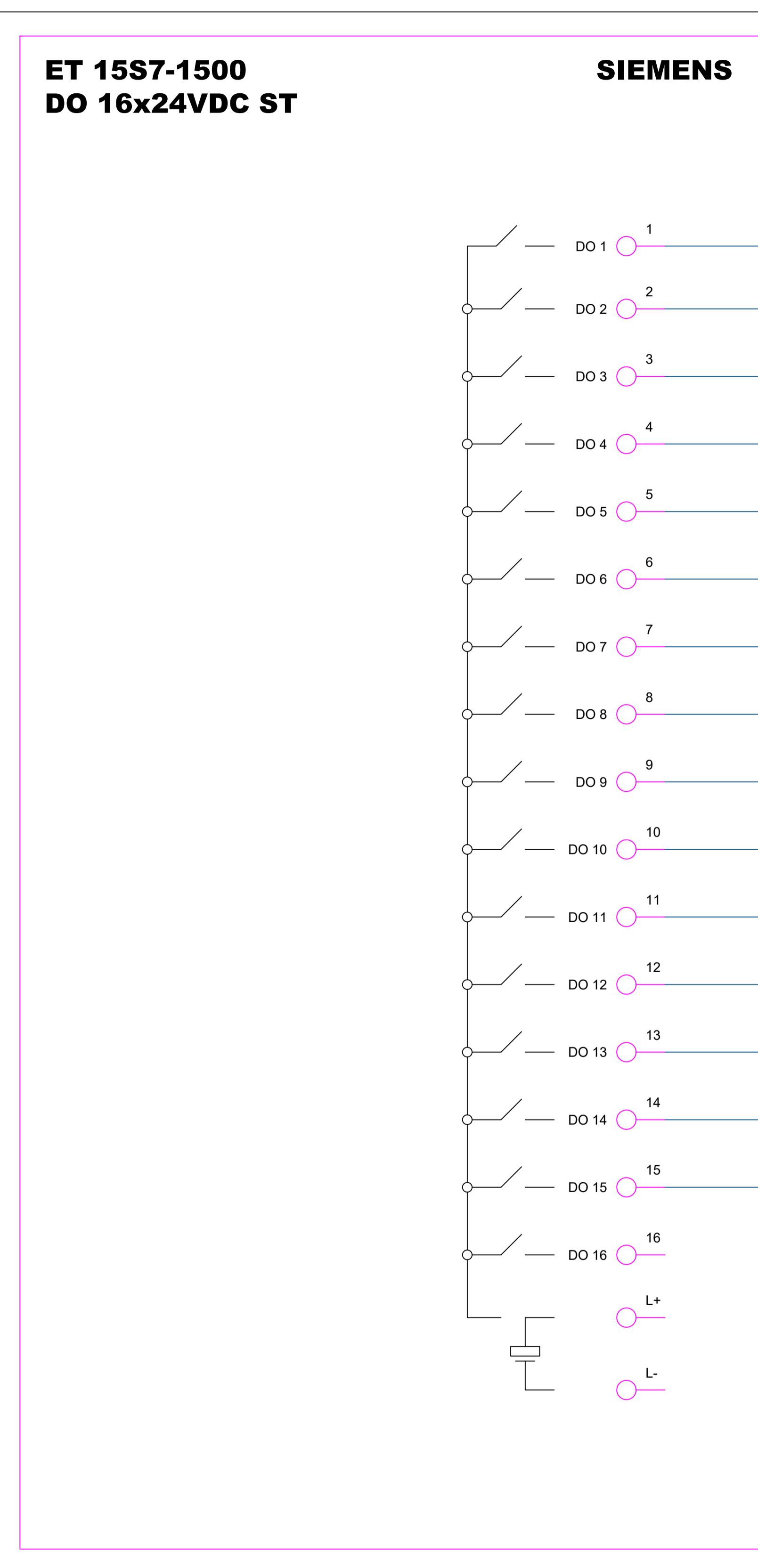
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**ONS\_HP\_MIX\_M03**

115 : 8

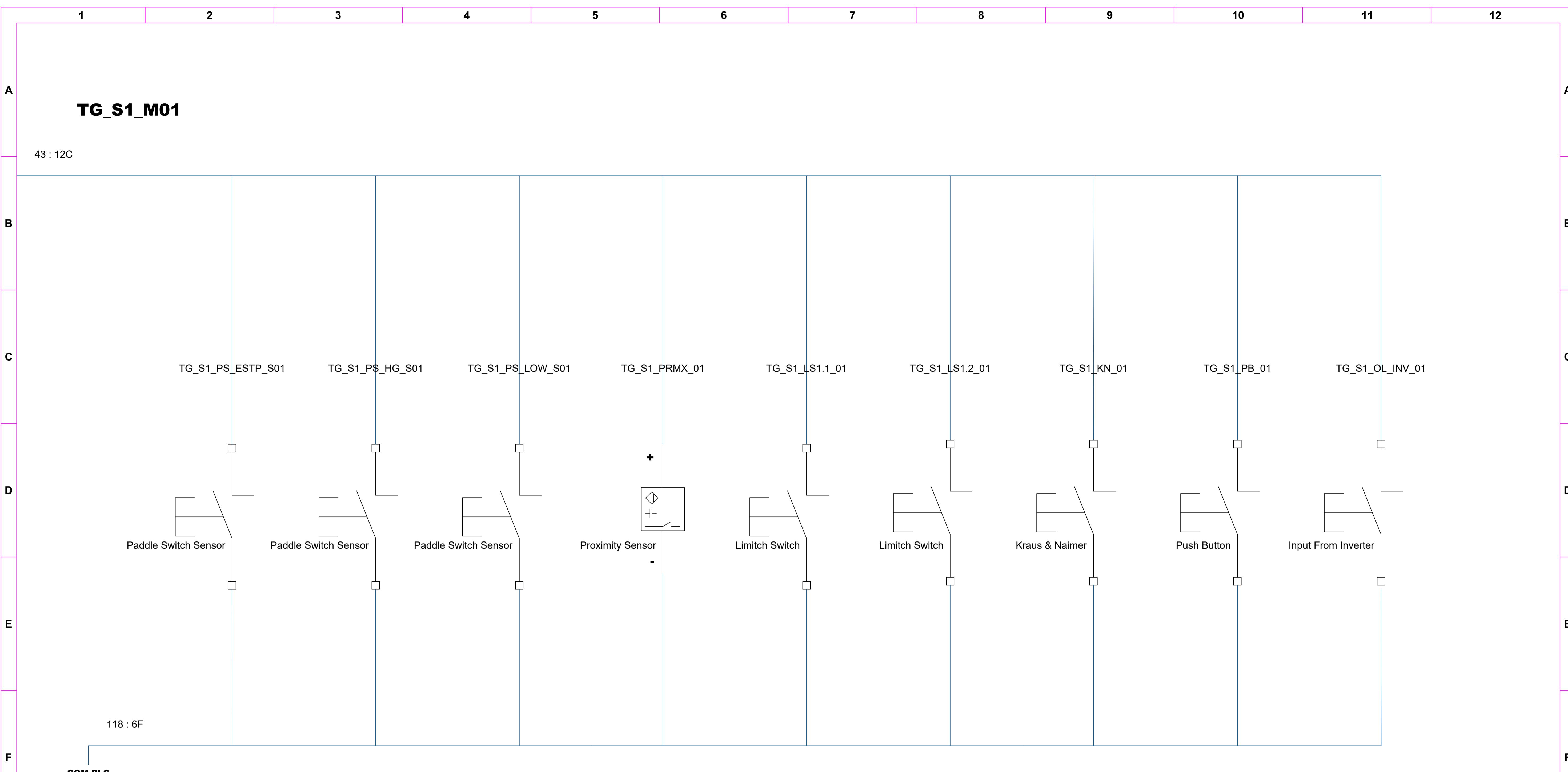
**OTG\_RUN\_INV\_MIX\_M02**

116 : 1

**OTG\_SCALE\_MIX\_M02**

117 : 1

1 2 3 4 5 6 7 8 9 10 11 12



Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 WAMGROUP	Title <b>Group TG_S1_M01</b> Digital Input 1	Project Address Tile Grouting	
4	21-05-2025		Drawn	RAFLI					+ Sheet No.61
			Appr.						121 Sheet
			Norm		Wiring Control Panel				2 3 4 5 6 7 8 9 10 11 12

1 2 3 4 5 6 7 8 9 10 11 12

A A

## TG\_S2\_M01

43 : 12E

44 : 12B

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C C

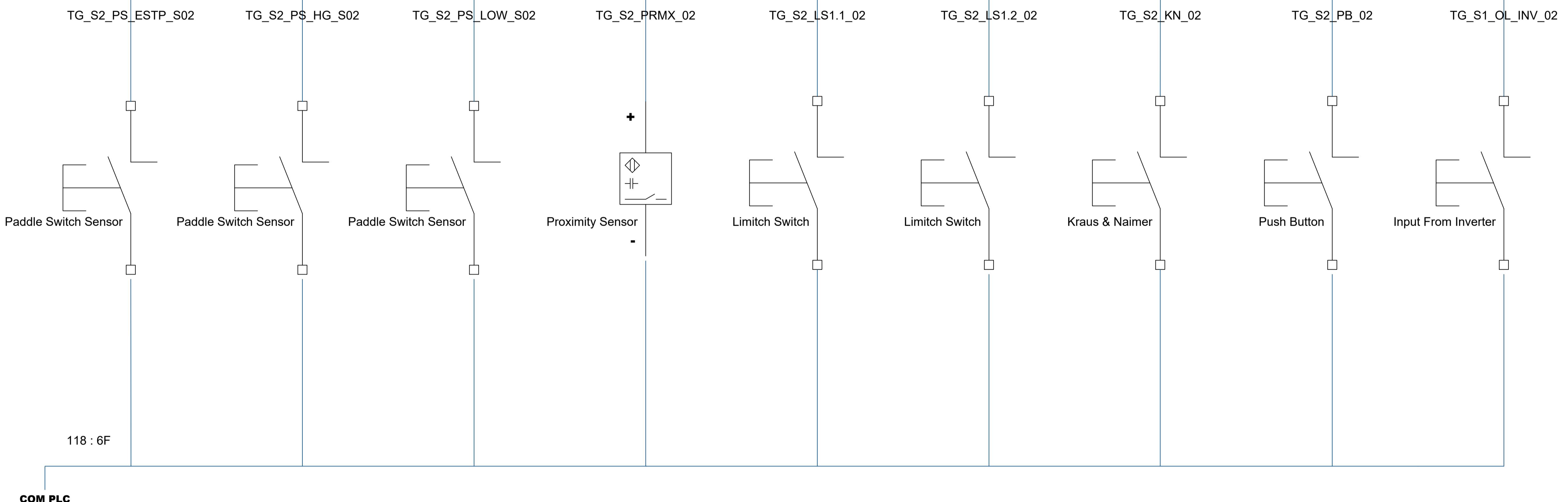
D D

E E

F F

G G

H H

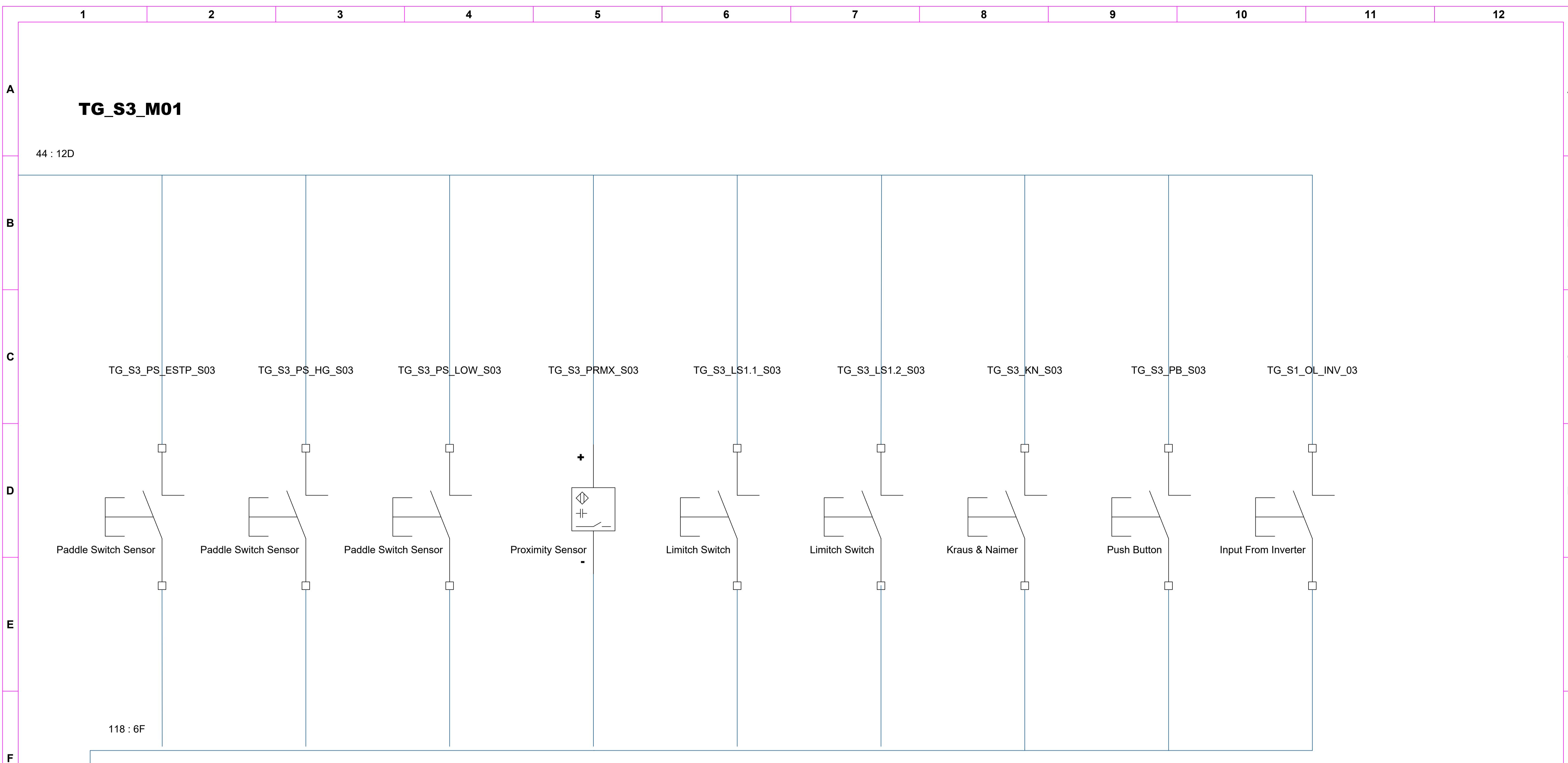


118 : 6F

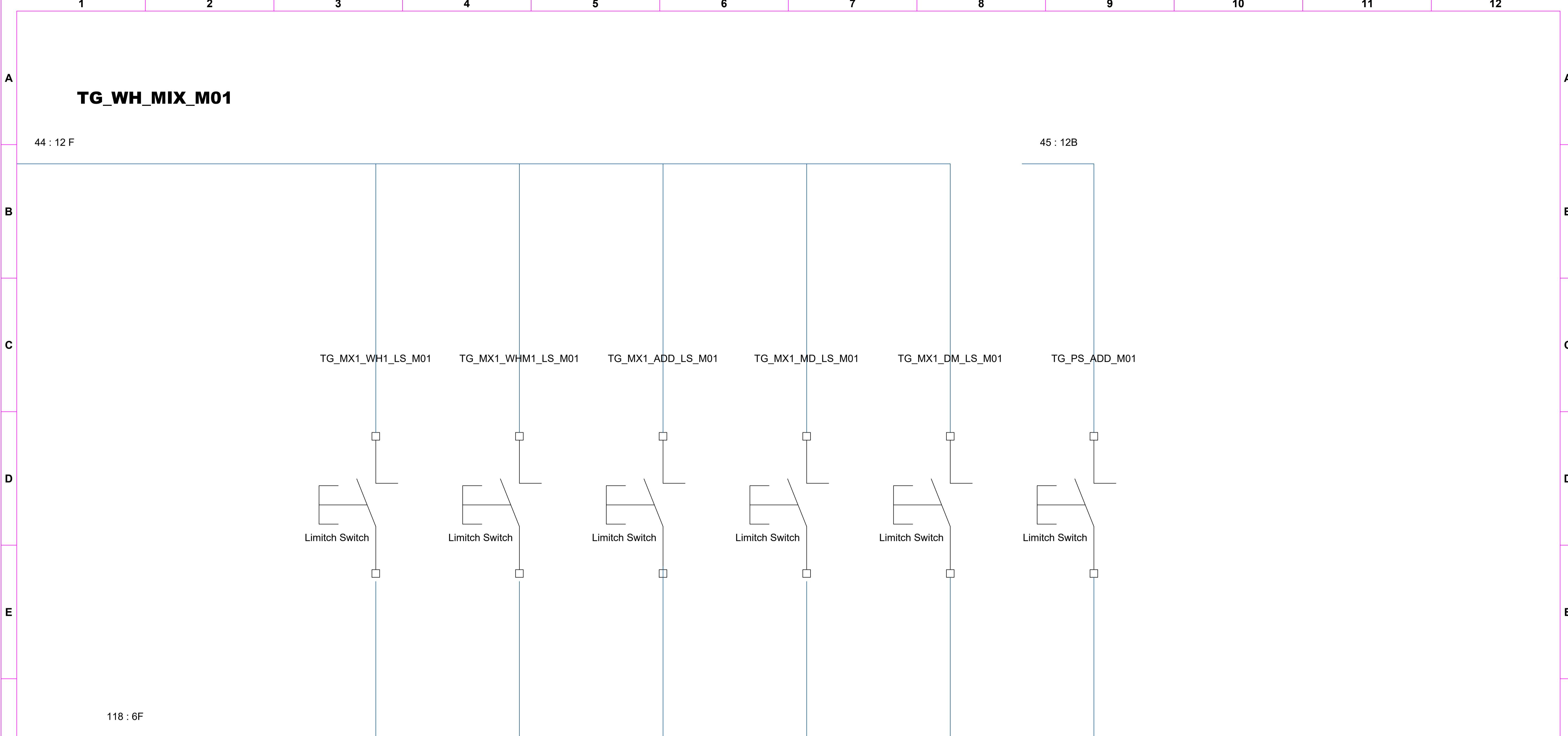
COM PLC

Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 WAMGROUP	Title <b>Group TG_S2_M01</b> Digital Input 1	Project Address Tile Grouting	
4	21-05-2025		Drawn	RAFLI					+ Sheet No.62
			Appr.						121 Sheet
			Norm		Wiring Control Panel				

2 3 4 5 6 7 8 9 10 11 12



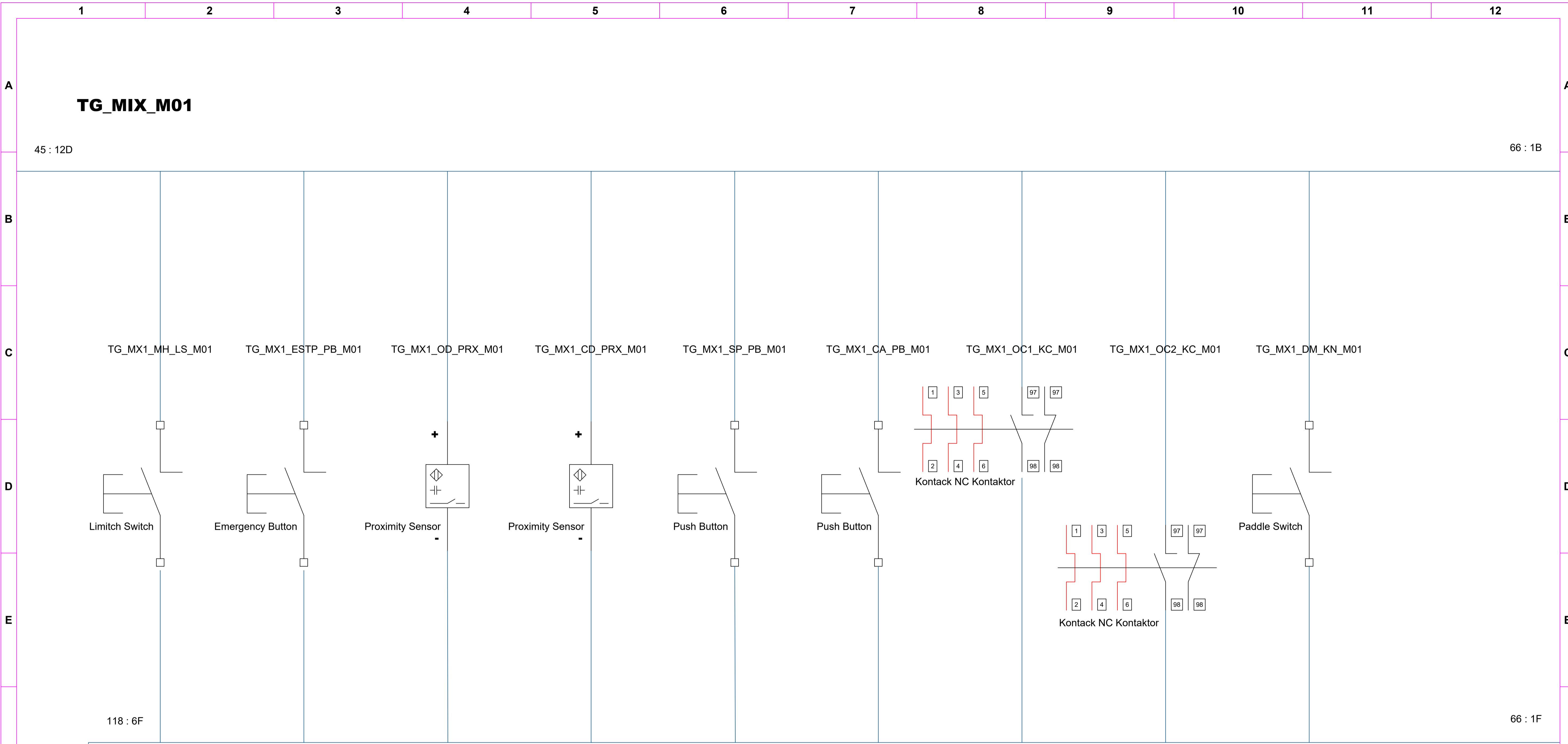
1 2 3 4 5 6 7 8 9 10 11 12



Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 WAMGROUP	Title <b>Group TG_WH_MIX_M01</b> Digital Input 2	Project Address Tile Grouting		
4	21-05-2025		Drawn	RAFLI						
			Appr.							
			Norm		Wiring Control Panel				+ Sheet No.64 121 Sheet	

2 3 4 5 6 7 8 9 10 11 12

1 2 3 4 5 6 7 8 9 10 11 12



**COM PLC**

118 : 6F 66 : 1F

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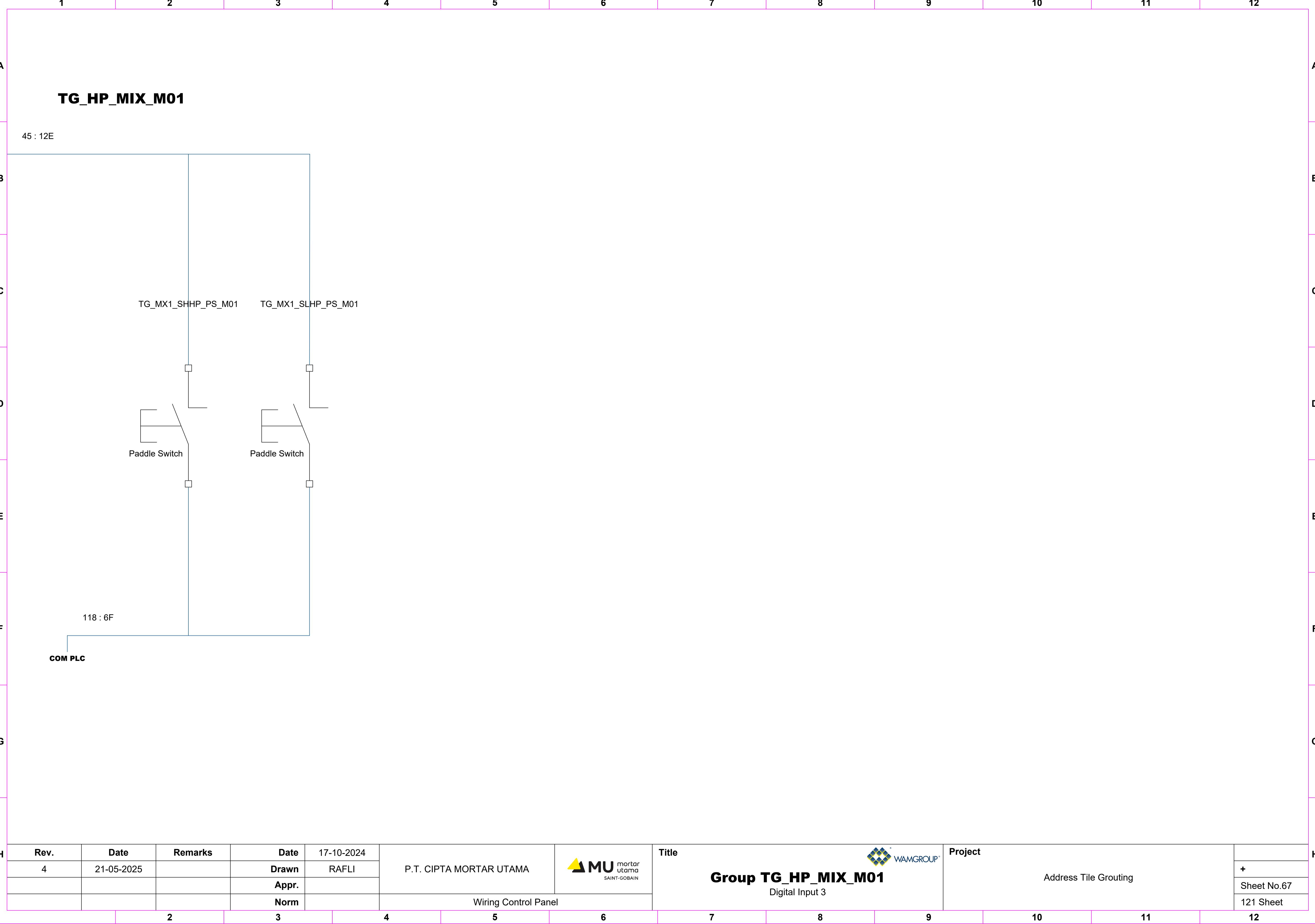
Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	WAMGROUP	Title <b>Group TG_MIX_M01</b> Digital Input 3	Project Address Tile Grouting	
4	21-05-2025		Drawn	RAFLI					+ Sheet No.65
			Appr.						121 Sheet
			Norm						
									12

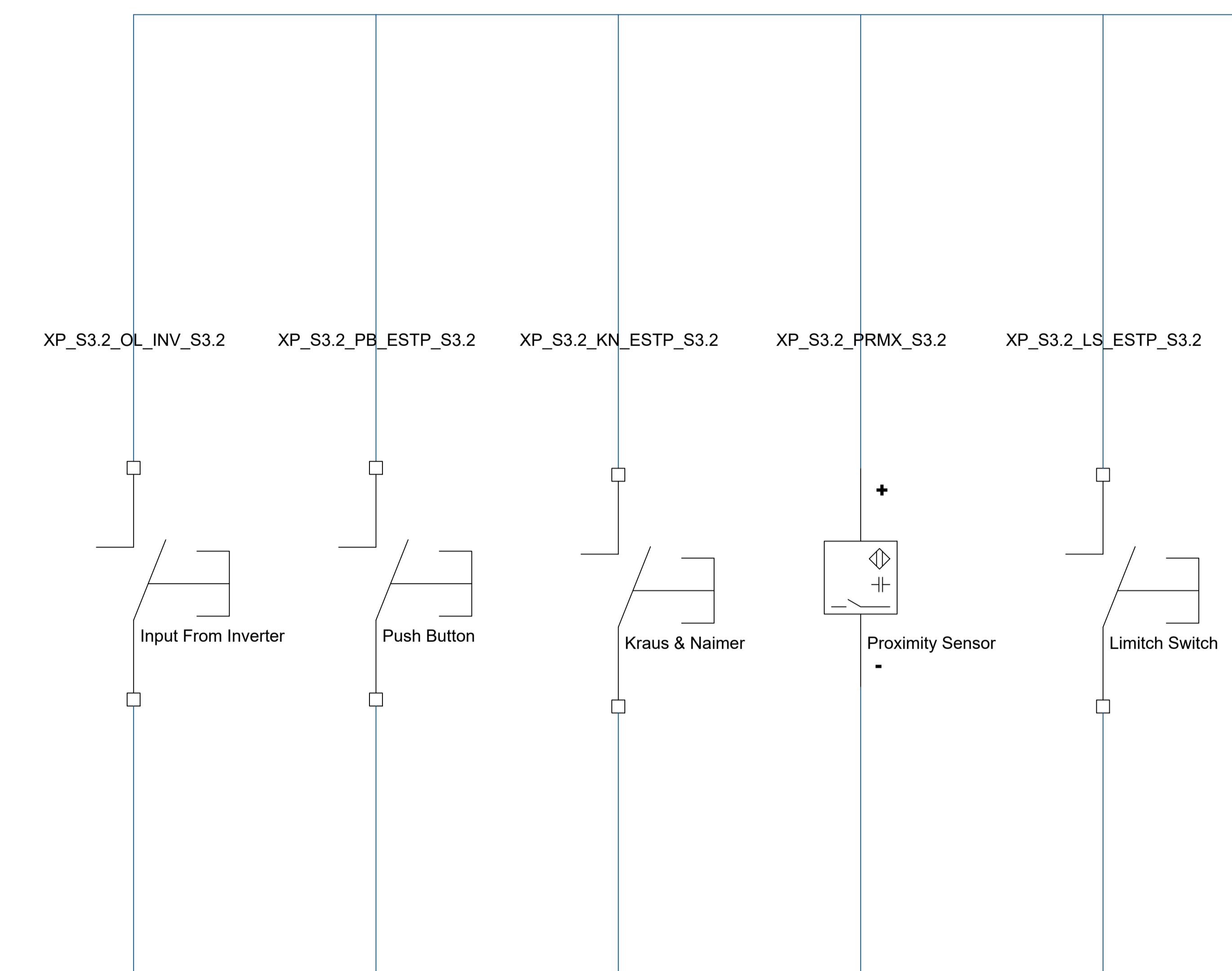
2 3 4 5 6 7 8 9 10 11 12



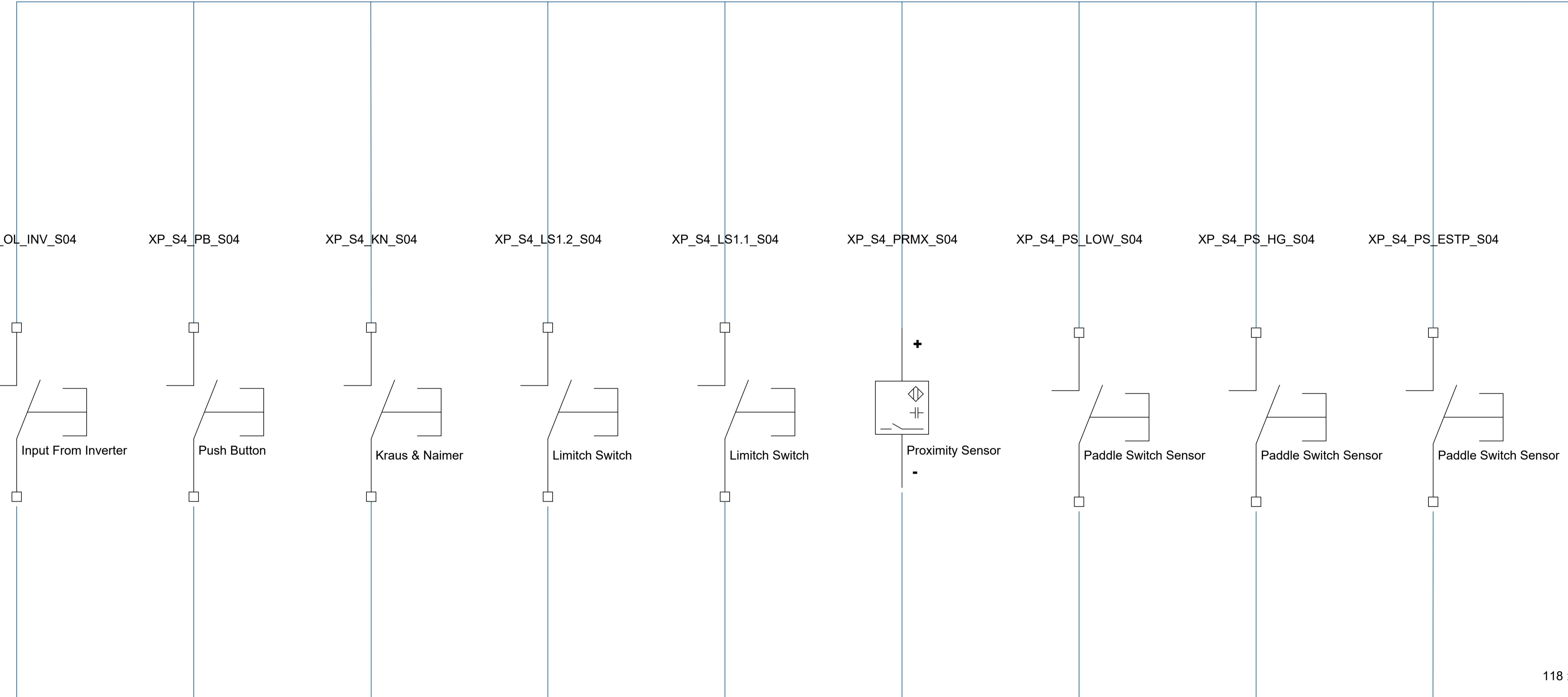
H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA MU mortar utama SAINT-GOBAIN	Title  Group <b>TG_MIX_M01</b> Digital Input 3	Project  Address Tile Grouting					
	4	21-05-2025		Drawn	RAFLI				+				
				Appr.					Sheet No.66				
				Norm		Wiring Control Panel			121 Sheet				
			2	3	4	5	6	7	8	9	10	11	12

1 2 3 4 5 6 7 8 9 10 11 12

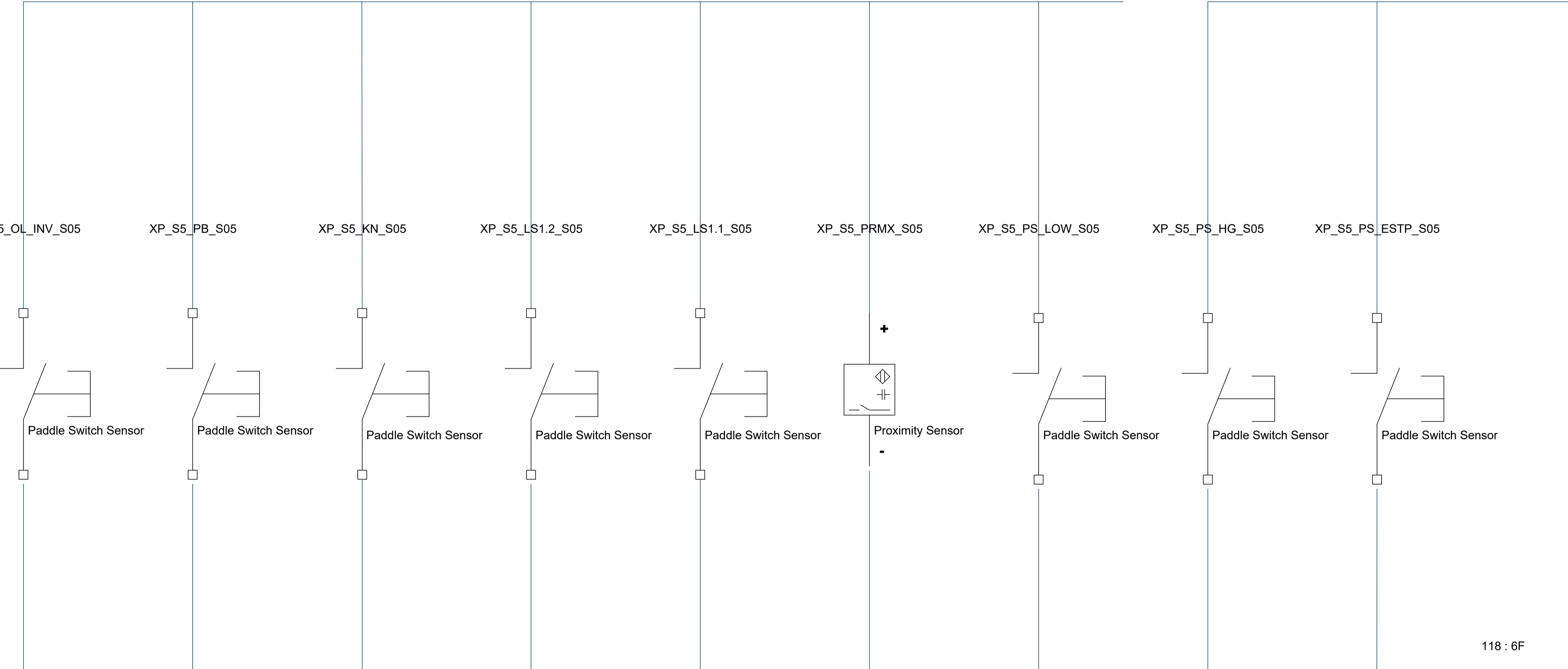


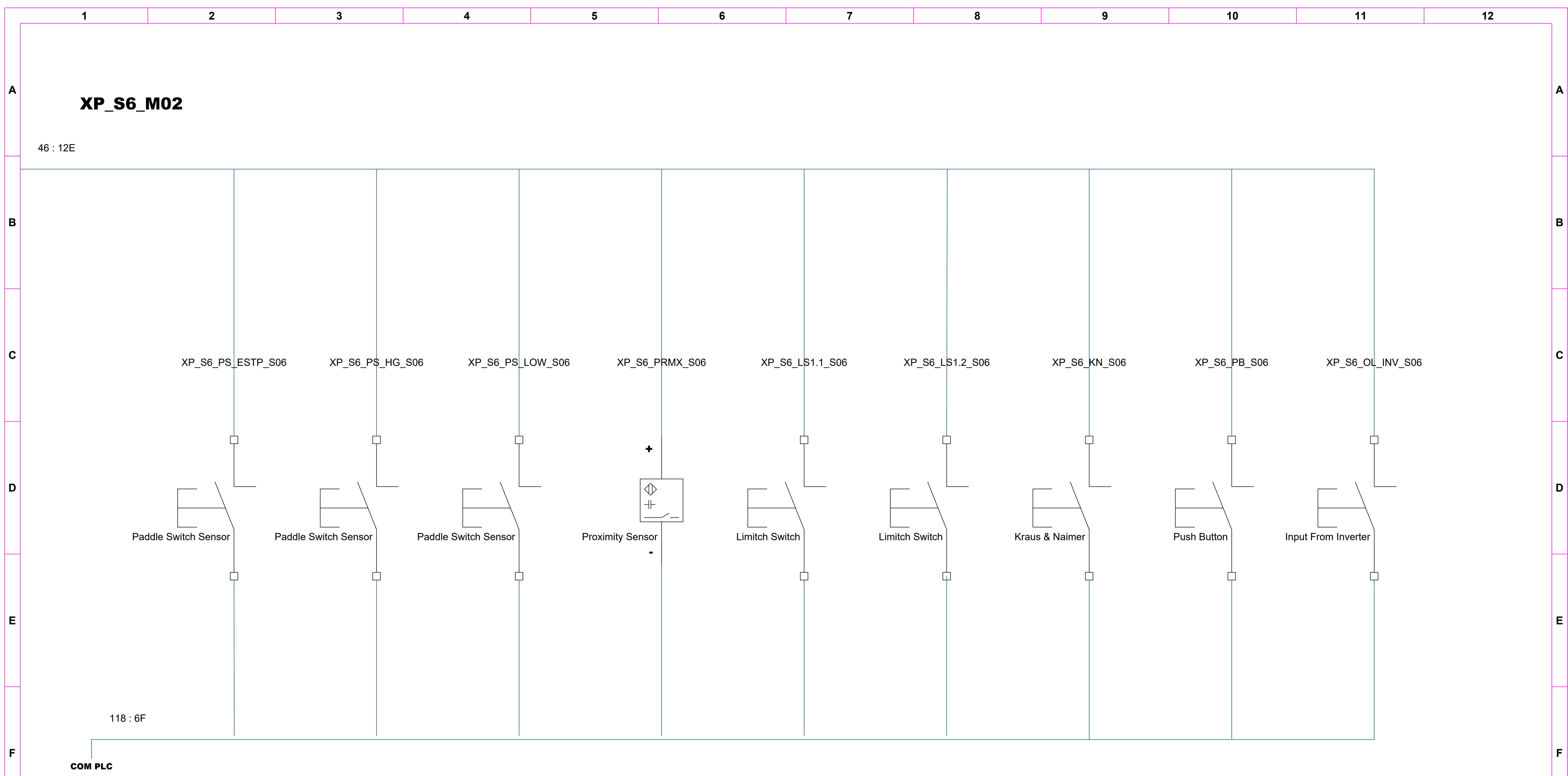


H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 <b>Group XP_S3.2_M02</b> Digital Input 1	<b>Title</b>  <b>Project</b> WAMGROUP®	
	4	21-05-2025		Drawn	RAFLI				+
				Appr.					Sheet No.68
				Norm	Wiring Control Panel				121 Sheet



118 : 6F





H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA MU mortar utama SAINT-GOBAIN	Title WAMGROUP® Group XP_S6_M02 Pro-X Batching Digital Input 1 Wiring Control Panel	Project H
	4	21-05-2025		Drawn	RAFLI			
				Appr.				
				Norm				

1 2 3 4 5 6 7 8 9 10 11 12

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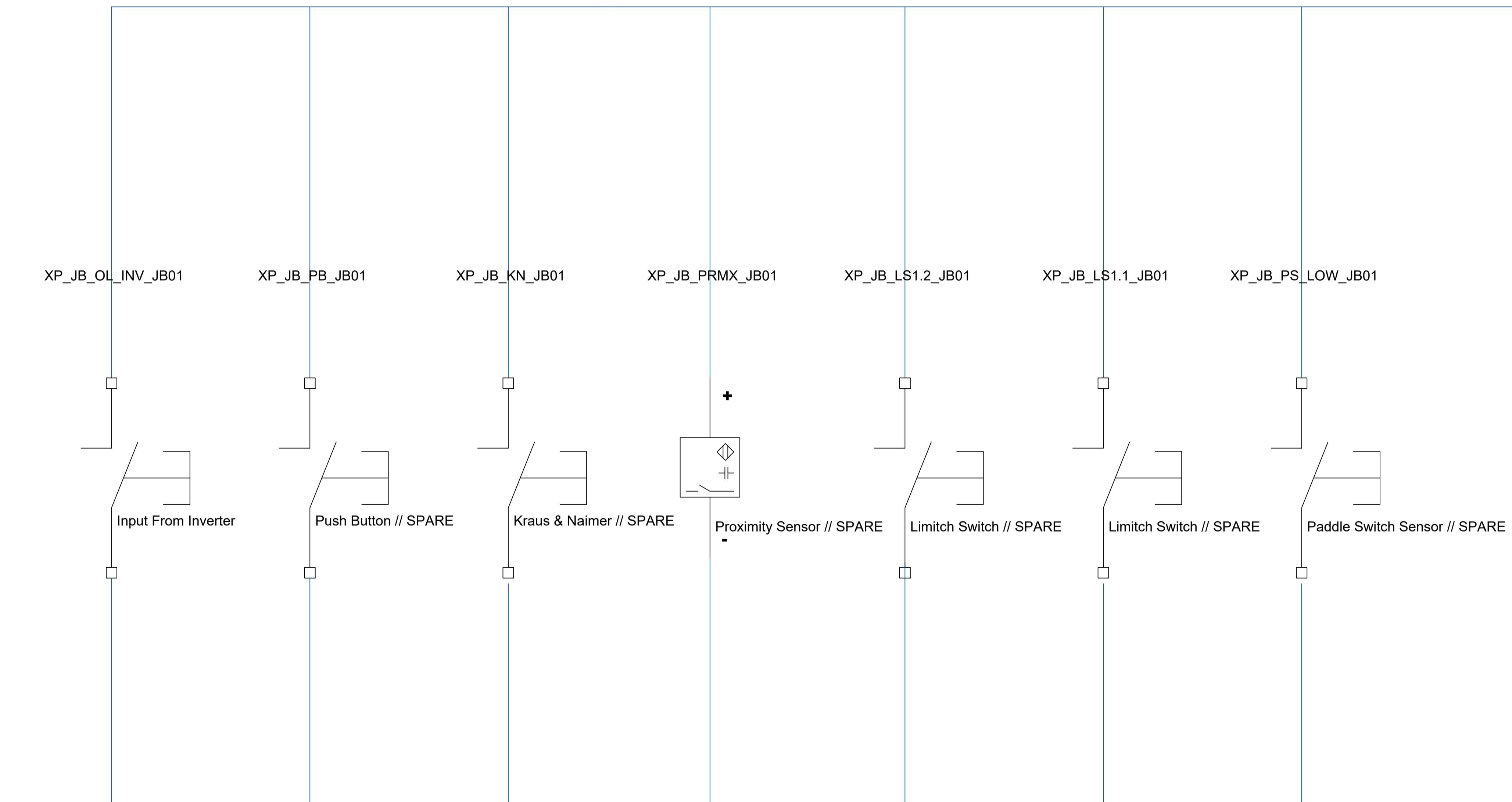
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**XP\_JB01\_M02**

47 : 1B



118 : 6F

COM PLC

Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 WAMGROUP	Title <b>Group XP_JB01_M02</b> Digital Input 2	Project Pro-X Batching	
4	21-05-2025		Drawn	RAFLI					
			Appr.						
			Norm		Wiring Control Panel				+ Sheet No.72 121 Sheet

2 3 4 5 6 7 8 9 10 11 12

1 2 3 4 5 6 7 8 9 10 11 12

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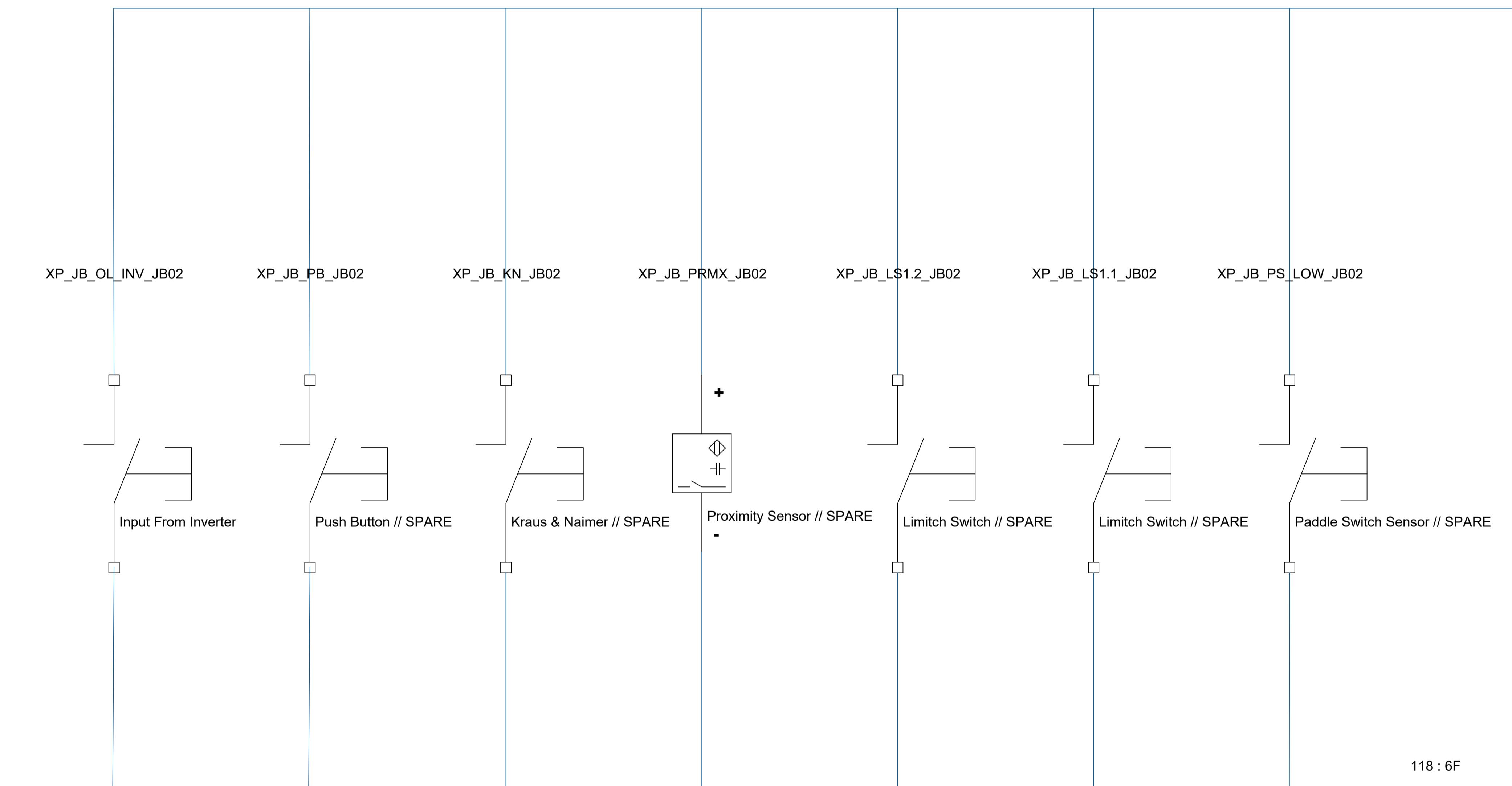
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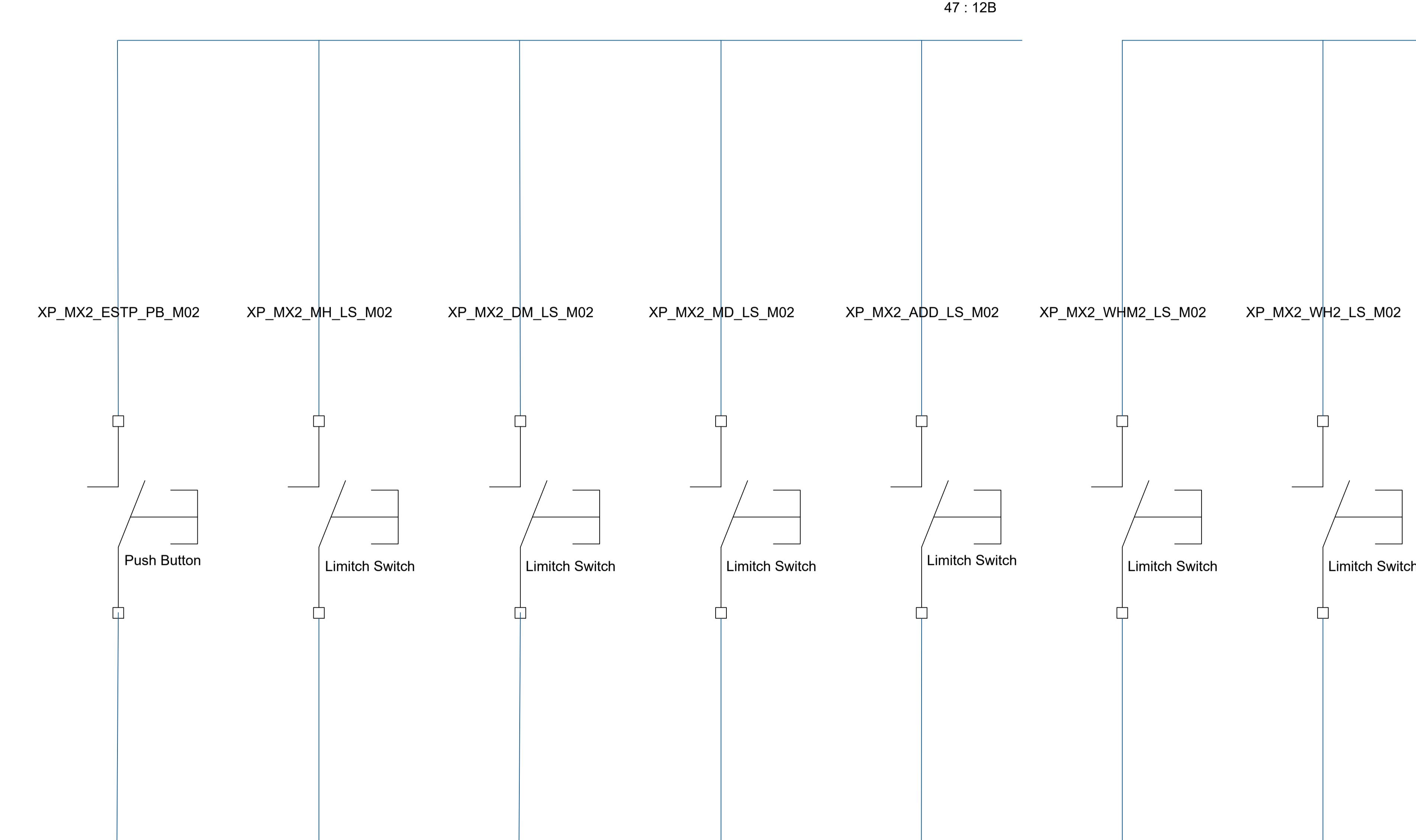
## XP\_JB02\_M02

47 : 1D



Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 WAMGROUP	Title  Group XP_JB02_M02 Digital Input 2	Project  Pro-X Batching	
4	21-05-2025		Drawn	RAFLI					+ Sheet No.73
			Appr.						121 Sheet
			Norm		Wiring Control Panel				

2 3 4 5 6 7 8 9 10 11 12



H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA SAINT-GOBAIN	 	Title  <b>Group XP_WH_MIX_M02</b> Digital Input 2	Project  Pro-X Batching	
	4	21-05-2025		Drawn	RAFLI					+
				Appr.						Sheet No.74
				Norm						121 Sheet
						Wiring Control Panel				

1 2 3 4 5 6 7 8 9 10 11 12

## XP\_MIX\_M02

47 : 12D

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XP\_MX2\_OD\_PRX\_M02 XP\_MX2\_CD\_PRX\_M02 XP\_MX2\_SP\_PRX\_M02 XP\_MX2\_CA\_PRX\_M02 XP\_MX2\_DM\_KN\_M02 XP\_MX2\_RM\_PB\_M02 XP\_MX2\_OI\_INV\_M02

Limitch Switch

Limitch Switch

Push Button

Push Button

Kraus & Naimer

Push Button

Push Button

Input From Inverter

118 : 6F

COM PLC

Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 WAMGROUP	Title <b>Group XP_MIX_M02</b> Digital Input 2	Project Pro-X Batching	
4	21-05-2025		Drawn	RAFLI					+
			Appr.						Sheet No.75
			Norm		Wiring Control Panel				121 Sheet

2 3 4 5 6 7 8 9 10 11 12

1 2 3 4 5 6 7 8 9 10 11 12

## XP\_HP\_MIX\_M02

47 : 12E

48 : 1B

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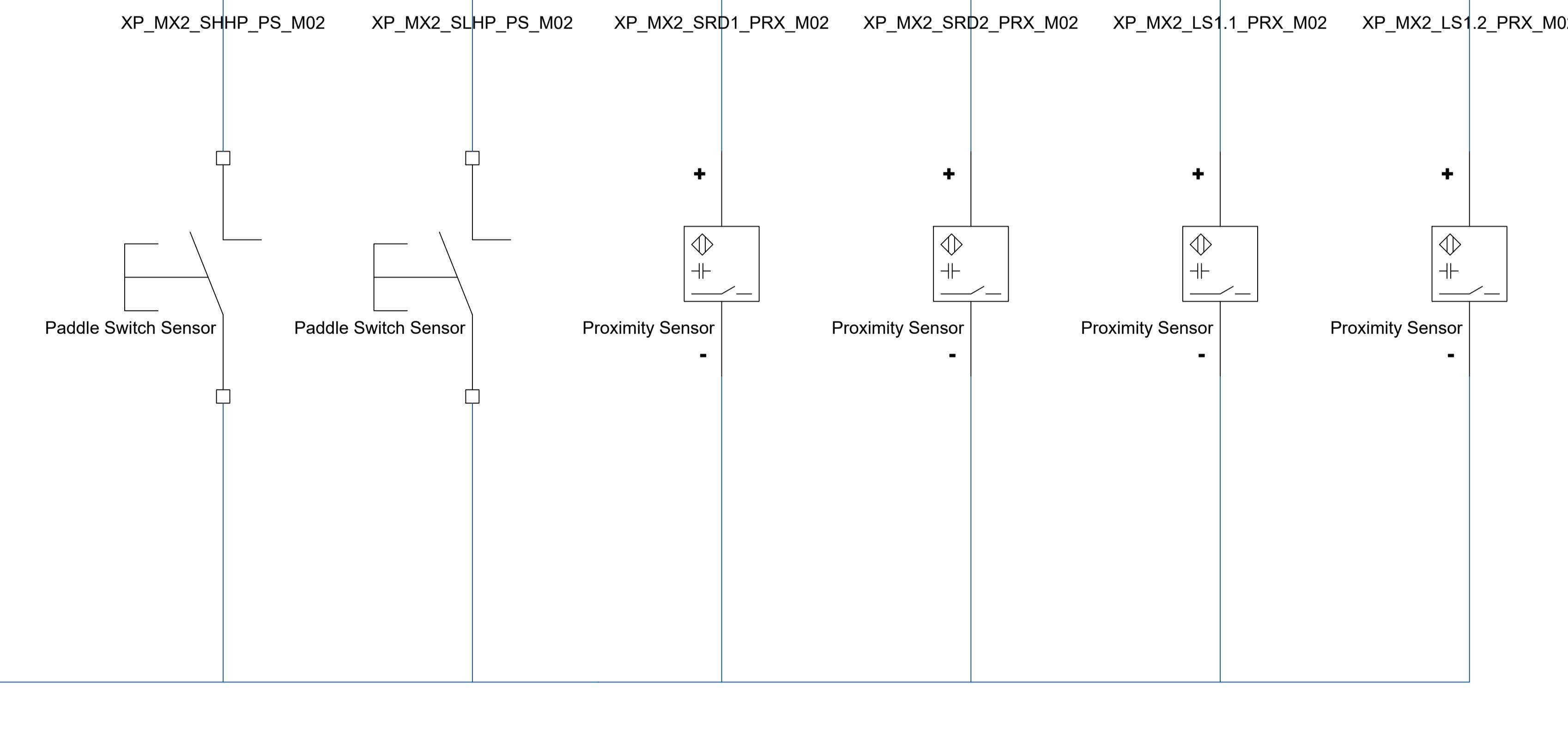
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Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 WAMGROUP	Title Group XP_HP_MIX_M02 Digital Input 2	Project Pro-X Batching	
4	21-05-2025		Drawn	RAFLI					+ Sheet No.76
			Appr.						121 Sheet
			Norm		Wiring Control Panel				

2 3 4 5 6 7 8 9 10 11 12

1 2 3 4 5 6 7 8 9 10 11 12

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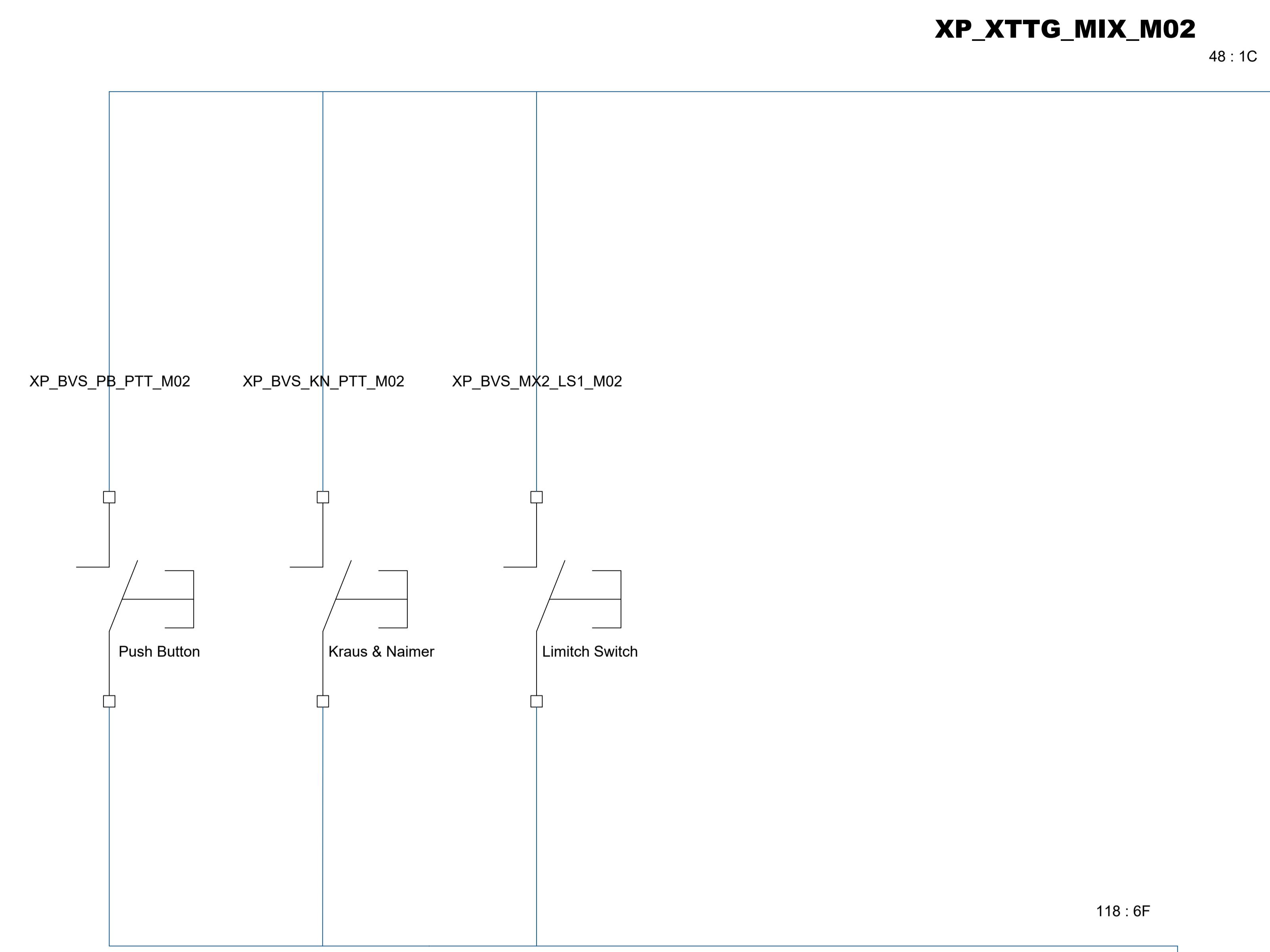
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Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 WAMGROUP	Title <b>Group XP_XTTG_MIX_M02</b> Digital Input 3	Project Pro-X Batching	
4	21-05-2025		Drawn	RAFLI					+ Sheet No.77
			Appr.						121 Sheet
			Norm		Wiring Control Panel				

2 3 4 5 6 7 8 9 10 11 12

1 2 3 4 5 6 7 8 9 10 11 12

## NS\_S07\_M03

49 : 12C

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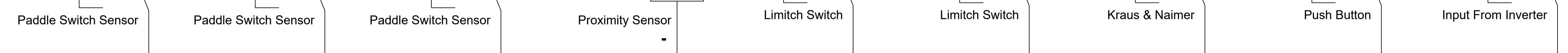
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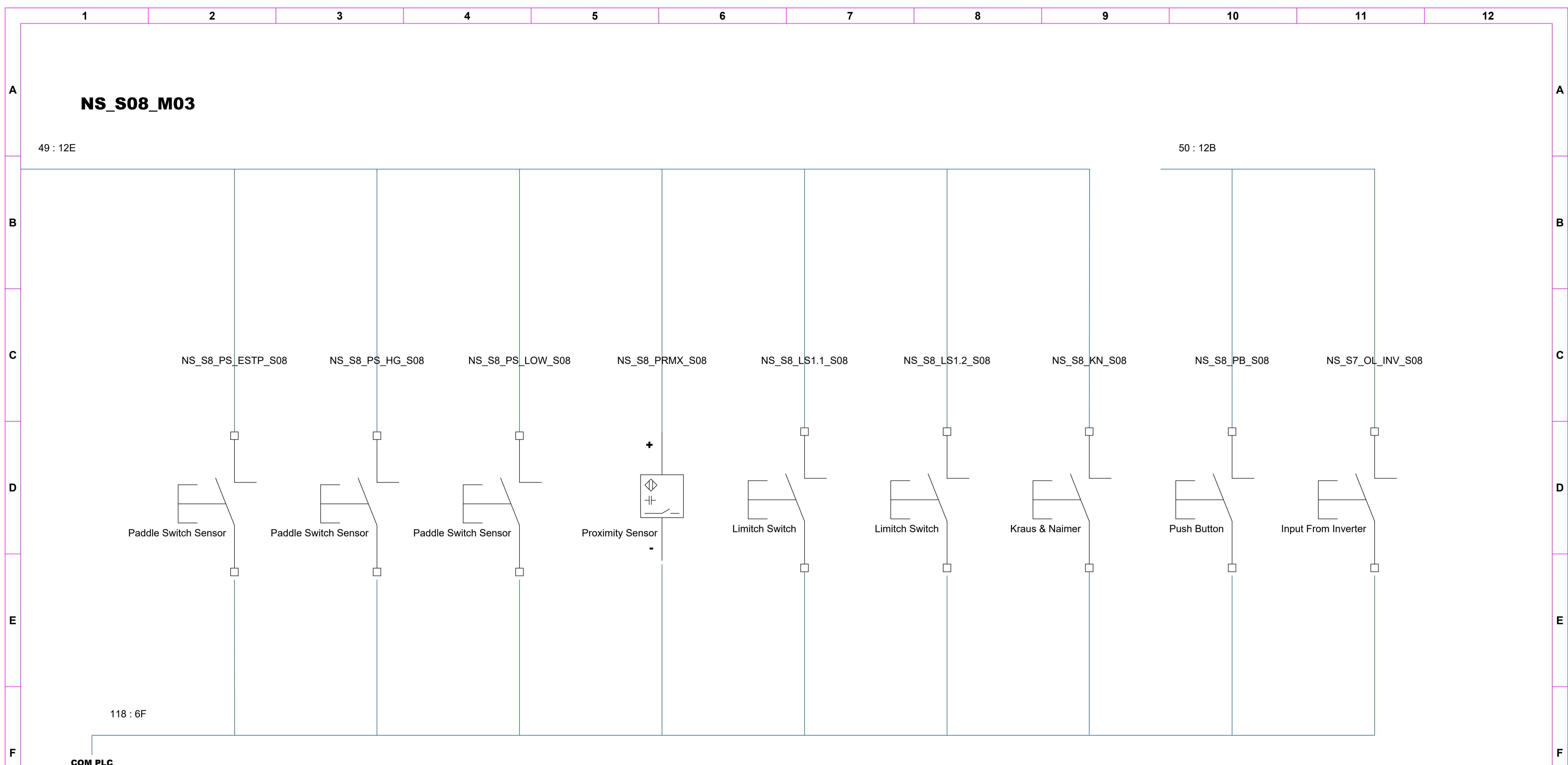
NS\_S7\_PS\_ESTP\_S07 NS\_S7\_PS\_HG\_S07 NS\_S7\_PS\_LOW\_S07 NS\_S7\_PRMX\_S07 NS\_S7\_LS1.1\_S07 NS\_S7\_LS1.2\_S07 NS\_S7\_KN\_S07 NS\_S7\_PB\_S07 NS\_S7\_OI\_INV\_S07



118 : 6F

COM PLC

Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 WAMGROUP	Title <b>Group NS_S07_M03</b> Digital Input 1	Project Non Sanded Batching	
4	21-05-2025		Drawn	RAFLI					+ Sheet No.78
			Appr.						121 Sheet
			Norm		Wiring Control Panel				2 3 4 5 6 7 8 9 10 11 12



H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA MU mortar utama SAINT-GOBAIN	Title Non Sanded Batching Digital Input 1 Wiring Control Panel	Project + Sheet No.79 121 Sheet	H
4	21-05-2025			Drawn	RAFLI				
				Appr.					
				Norm					

1 2 3 4 5 6 7 8 9 10 11 12

## NS\_S09\_M03

50 : 12B

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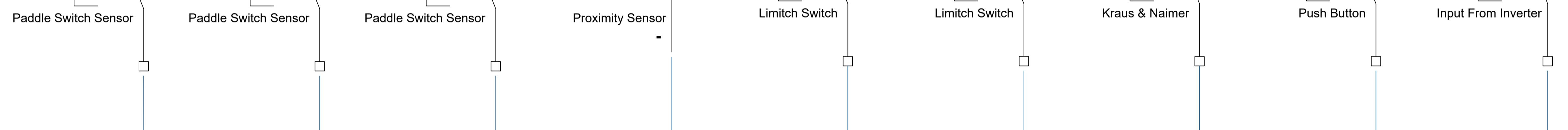
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NS\_S9\_PS\_ESTP\_S09 NS\_S9\_PS\_HG\_S09 NS\_S9\_PS\_LOW\_S09 NS\_S9\_PRMX\_S09 NS\_S9\_LS1.1\_S09 NS\_S9\_LS1.2\_S09 NS\_S9\_KN\_S09 NS\_S9\_PB\_S09 NS\_S7\_OI\_INV\_S09

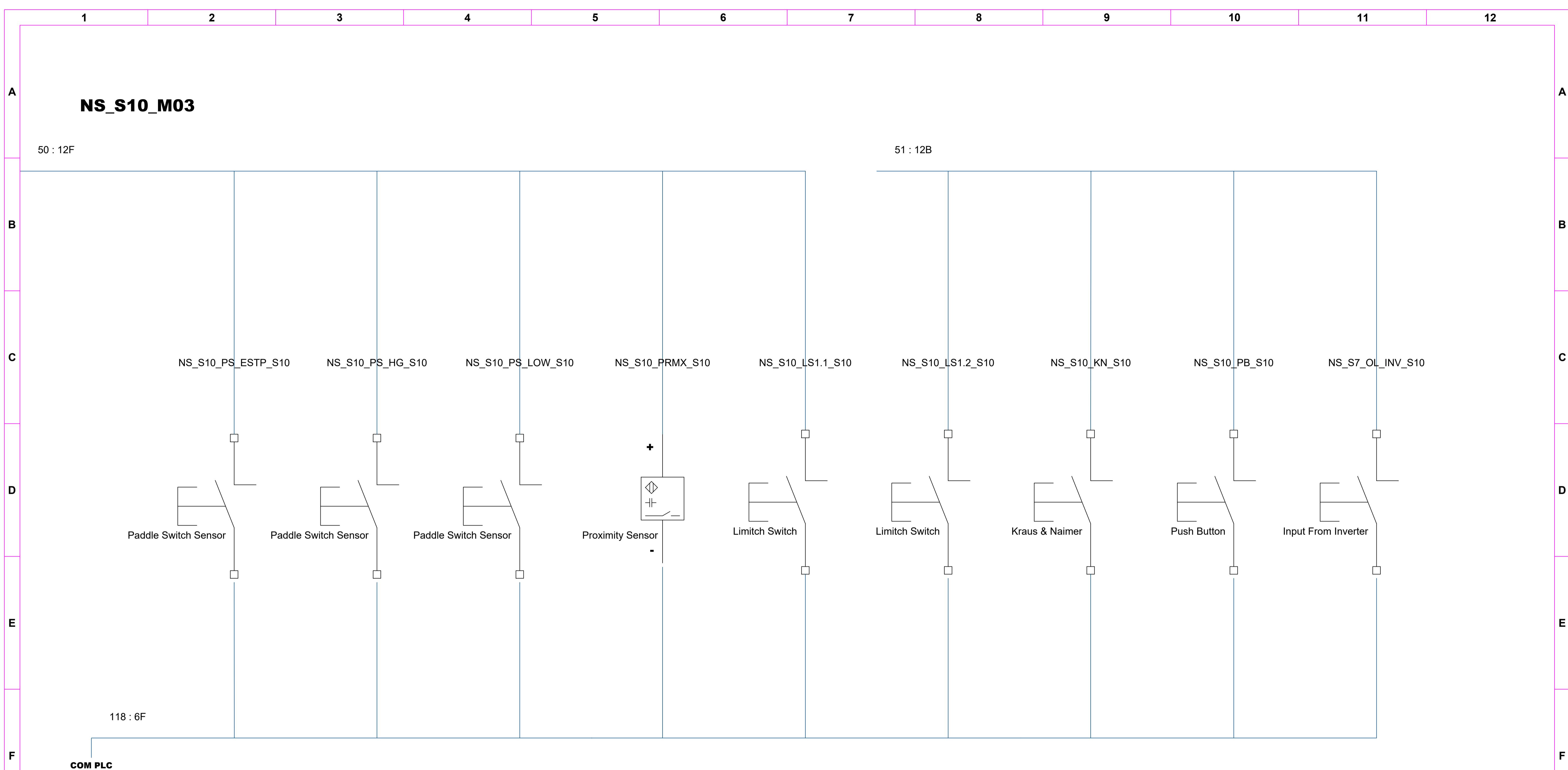


118 : 6F

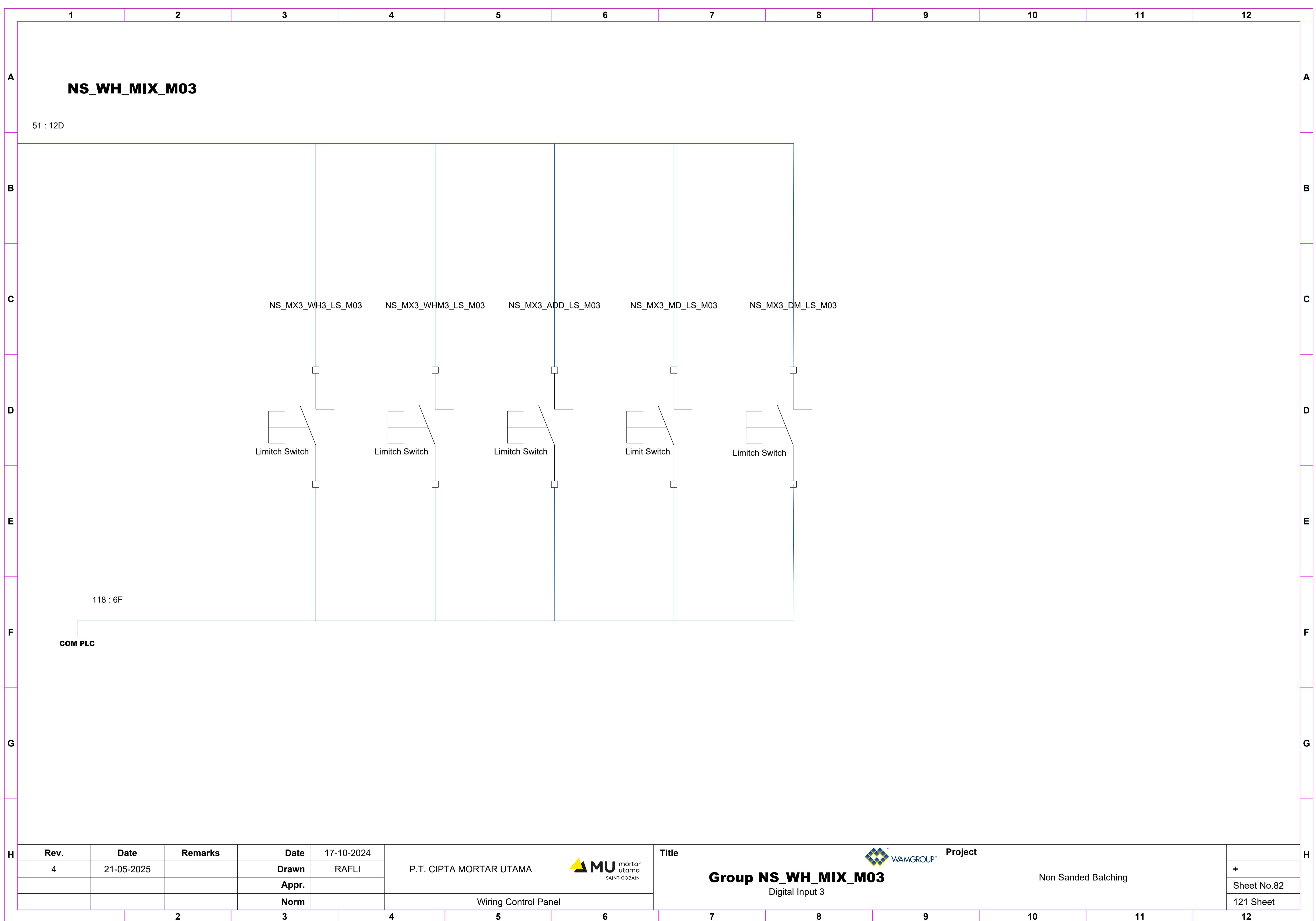
COM PLC

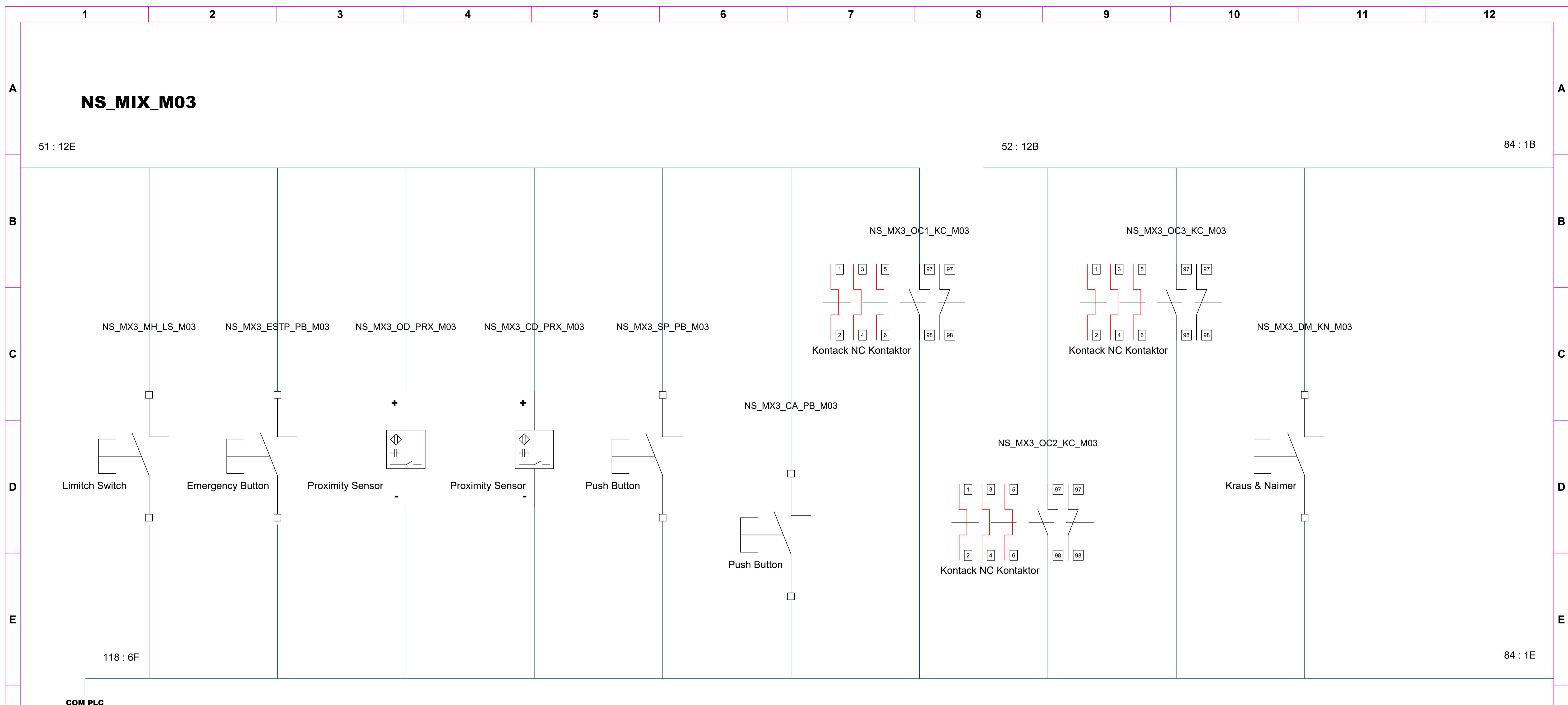
Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 WAMGROUP	Title Group NS_S09_M03 Digital Input 2	Project Non Sanded Batching	
4	21-05-2025		Drawn	RAFLI					+ Sheet No.80
			Appr.						121 Sheet
			Norm		Wiring Control Panel				

2 3 4 5 6 7 8 9 10 11 12

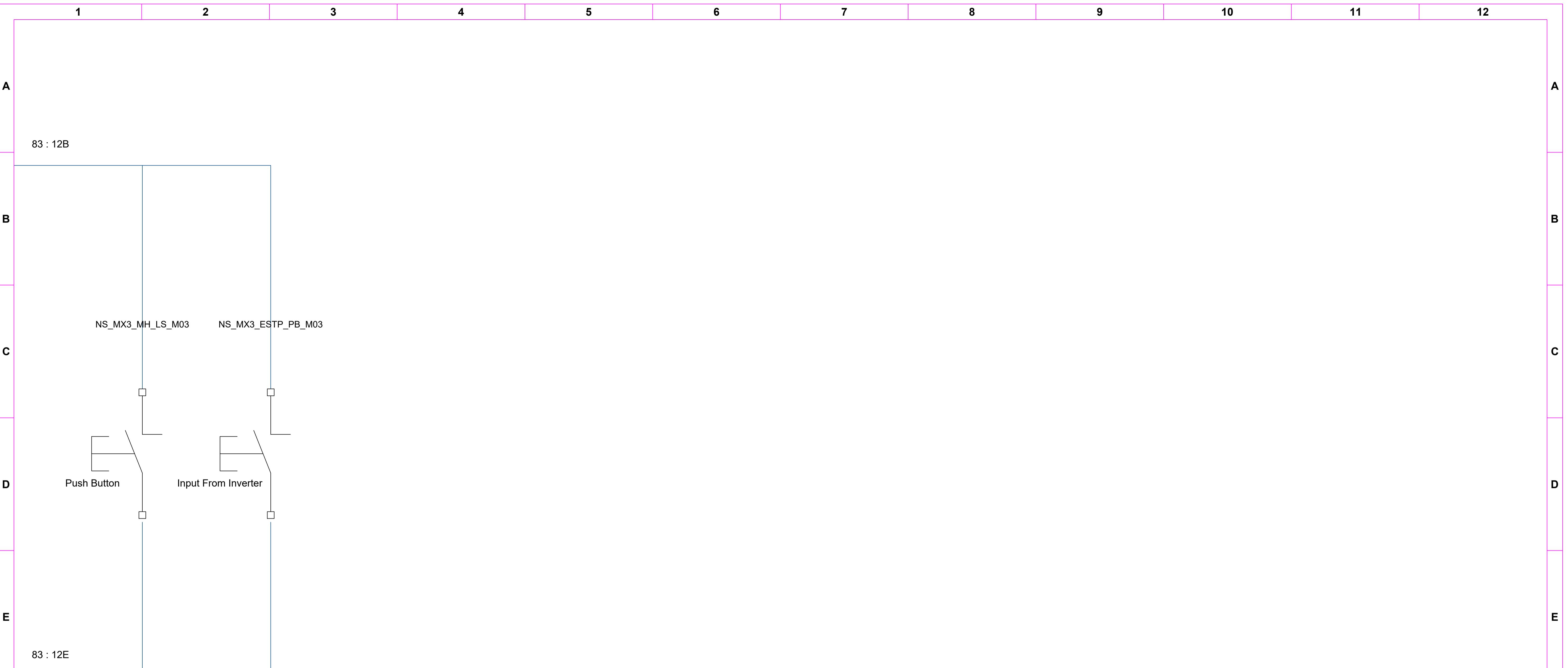


H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA SAINT-GOBAIN	MU mortar utama SAINT-GOBAIN	Title	Project		
	4	21-05-2025		Drawn	RAFLI					+	
				Appr.						Sheet No.81	
				Norm						121 Sheet	
						Wiring Control Panel				Group NS_S10_M03	
	2	3	4	5	6	7	8	9	10	11	12





H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA SAINT-GOBAIN	 MU mortar utama SAINT-GOBAIN	Title	Project  <b>Group NS_MIX_M03</b> Non Sanded Batching Digital Input 3	
	4	21-05-2025		Drawn	RAFLI					+
				Appr.						Sheet No.83
				Norm	Wiring Control Panel					121 Sheet



H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 WAMGROUP	Title <b>Group NS_MIX_M03</b> Digital Input 3	Project Non Sanded Batching	
	4	21-05-2025			Drawn RAFLI					
					Appr.					
				Norm		Wiring Control Panel				+
										Sheet No.84
										121 Sheet
	<td></td> <td></td> <td></td> <td></td> <th></th> <th></th> <th></th> <th></th> <td></td>									

1 2 3 4 5 6 7 8 9 10 11 12

## NS\_HP\_MIX\_M03

52 : 12D

B

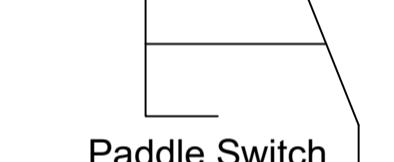
NS\_MX3\_SLHP\_PS\_M03 NS\_MX3\_SBVUP1.2\_PS\_M03

NS\_MX3\_SHHP\_PS\_M03

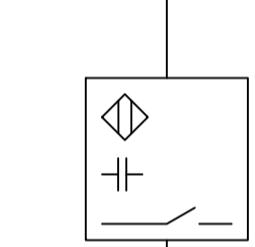
NS\_MX3\_BVUP1.1\_PS\_M03



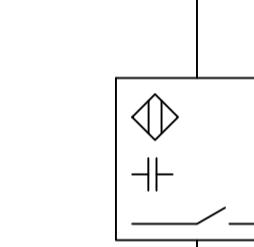
Paddle Switch



Paddle Switch



Proximity Sensor



Proximity Sensor

118 : 6F

COM PLC

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Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	MU mortar utama SAINT-GOBAIN	Title <b>Group NS_HP_MIX_M03</b> Digital Input 3	Project Non Sanded Batching	
4	21-05-2025		Drawn	RAFLI					+ Sheet No.85
			Appr.						121 Sheet

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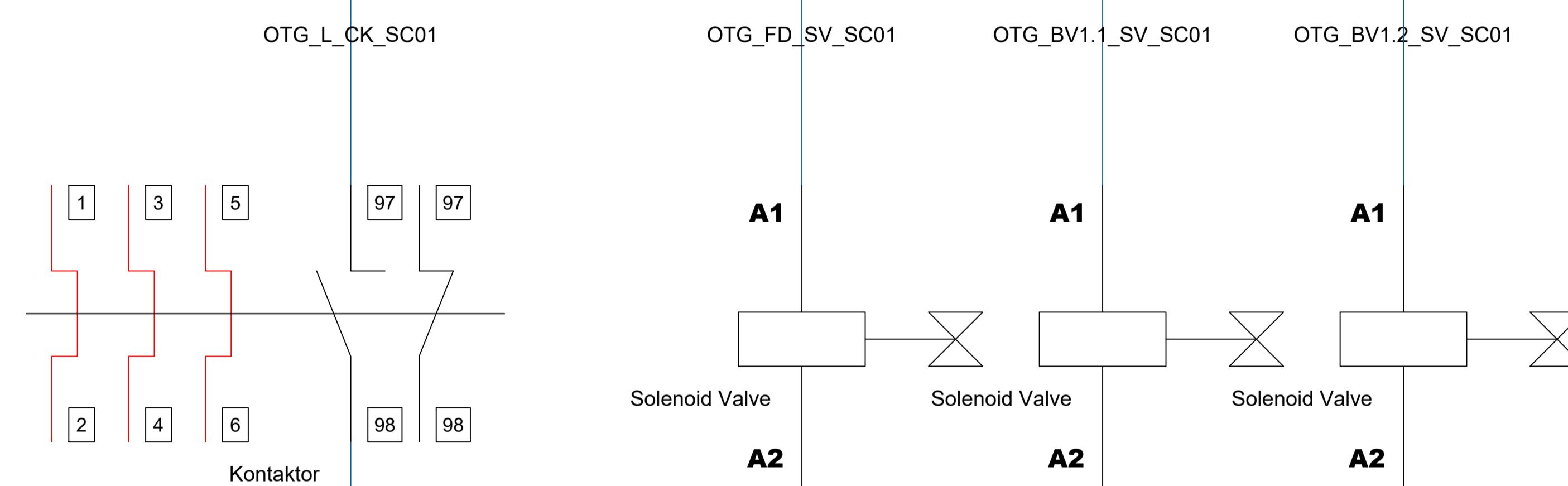
12

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1 2 3 4 5 6 7 8 9 10 11 12

## OTG\_S1\_M01

53 : 12 B



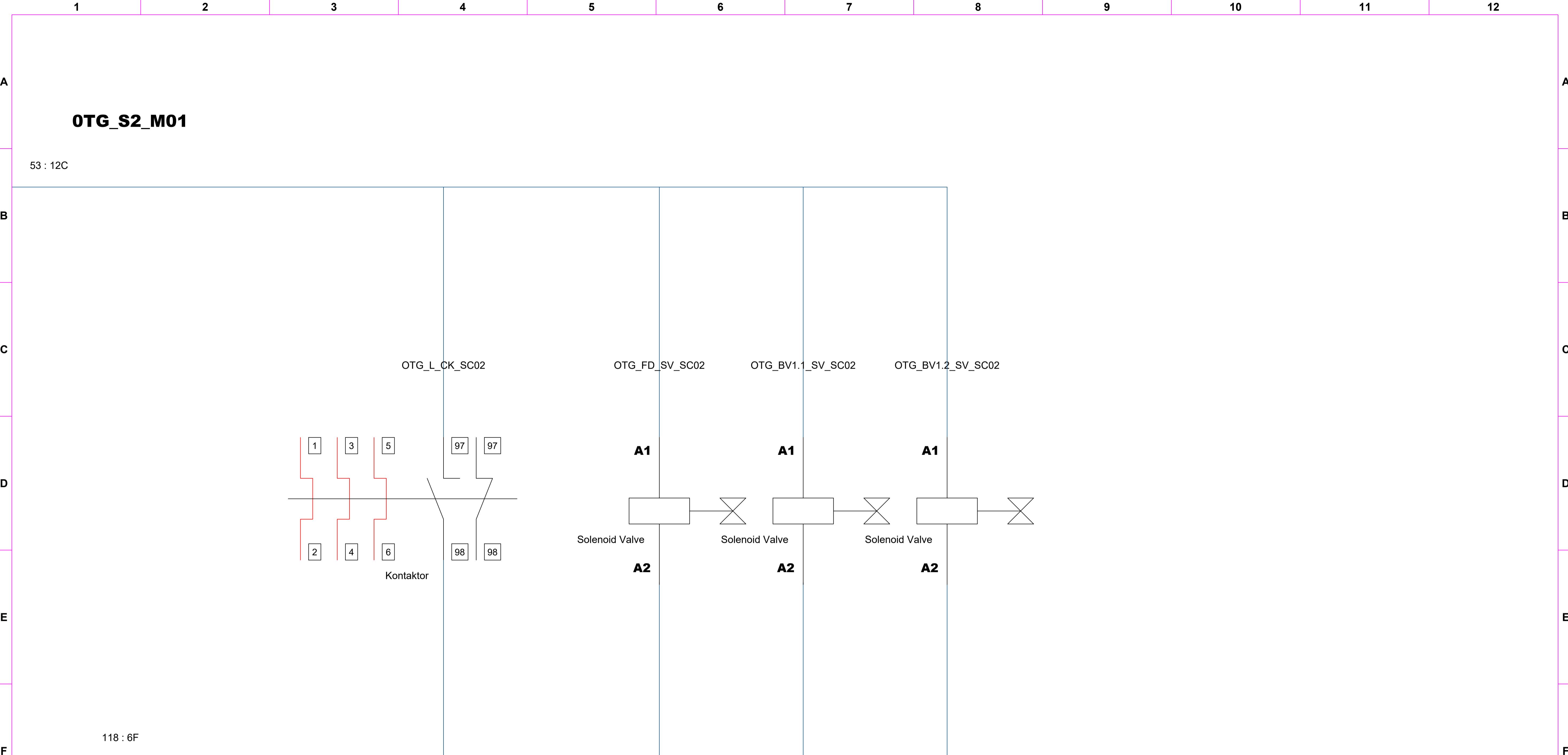
118 : 6F

COM PLC

H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA Appr. Norm	WAMGROUP Saint-Gobain WAMGROUP Digital Output 1	Project Address Tile Grouting Sheet No.86 121 Sheet	H
	4	21-05-2025		Drawn	RAFLI				+
				Appr.					Sheet No.86
				Norm					121 Sheet

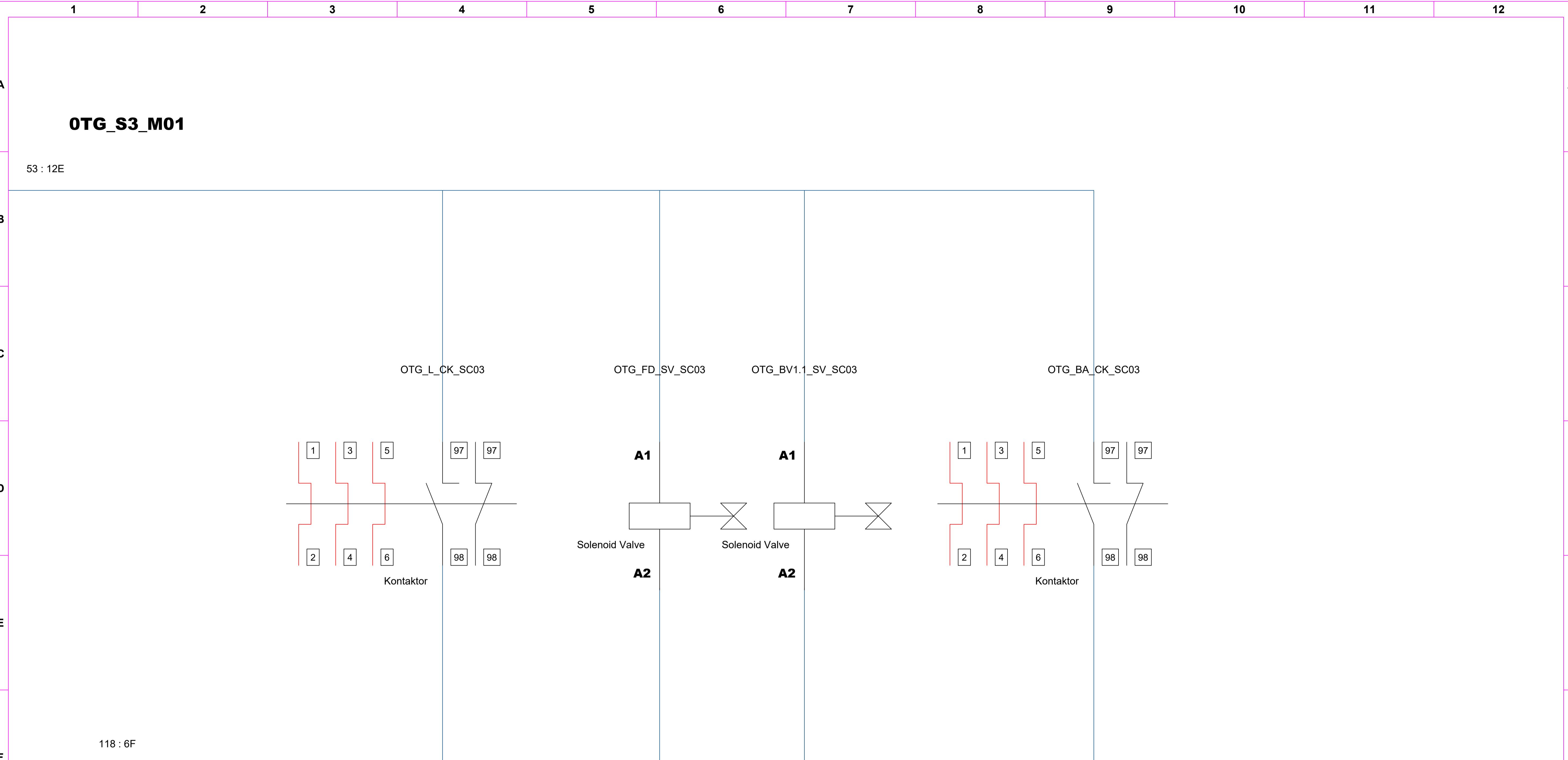
1 2 3 4 5 6 7 8 9 10 11 12

1 2 3 4 5 6 7 8 9 10 11 12



Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 WAMGROUP	Title <b>Group 0TG_S2_M01</b> Digital Output 1	Project Address Tile Grouting	H			
4	21-05-2025		Drawn	RAFLI					H			
			Appr.									
			Norm		Wiring Control Panel							
		2	3	4	5	6	7	8	9	10	11	12

1 2 3 4 5 6 7 8 9 10 11 12



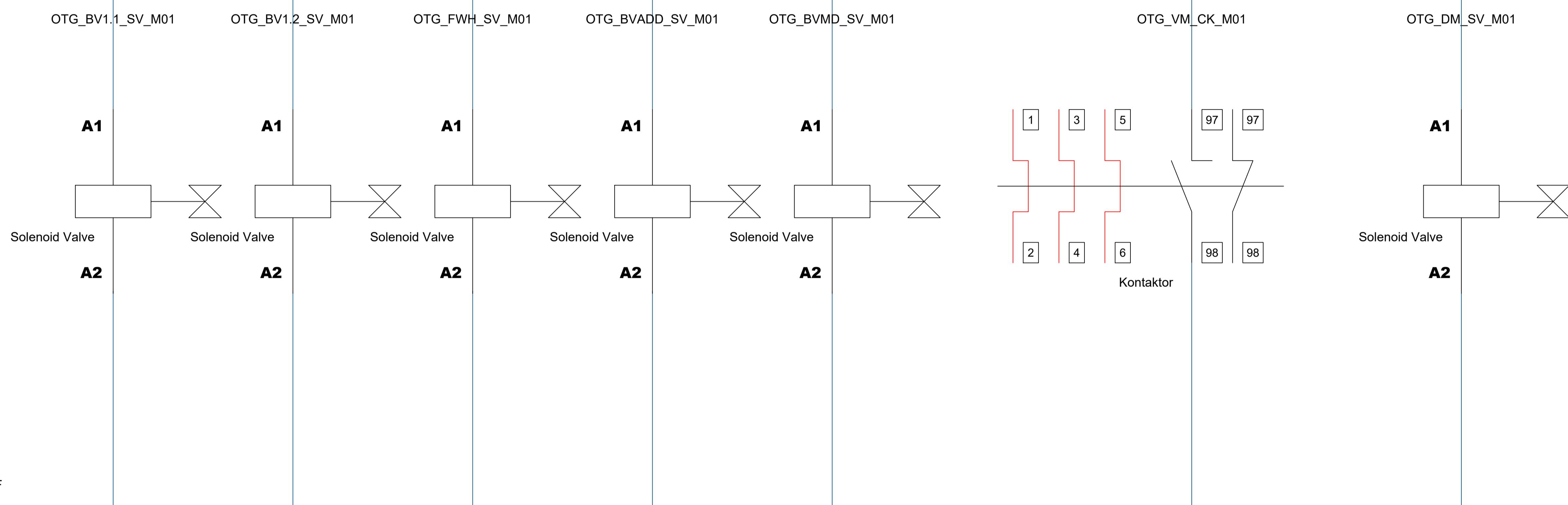
Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 WAMGROUP	Title <b>Group 0TG_S3_M01</b> Digital Output 1	Project Address Tile Grouting											
4	21-05-2025		Drawn	RAFLI															
			Appr.																
			Norm		Wiring Control Panel				+ Sheet No.88 121 Sheet										
									2	3	4	5	6	7	8	9	10	11	12

1 2 3 4 5 6 7 8 9 10 11 12

## OTG\_WH\_MIX\_M01

53 : 12F

54 : 12B



118 : 6F

COM PLC

H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	WAMGROUP	Title <b>Group OTG_WH_MIX_M01</b> Digital Output 2	Project Address Tile Grouting	
	4	21-05-2025			Drawn					
					Appr.					
				Norm		Wiring Control Panel				
		2	3	4	5	6	7	8	9	10
										11
										12

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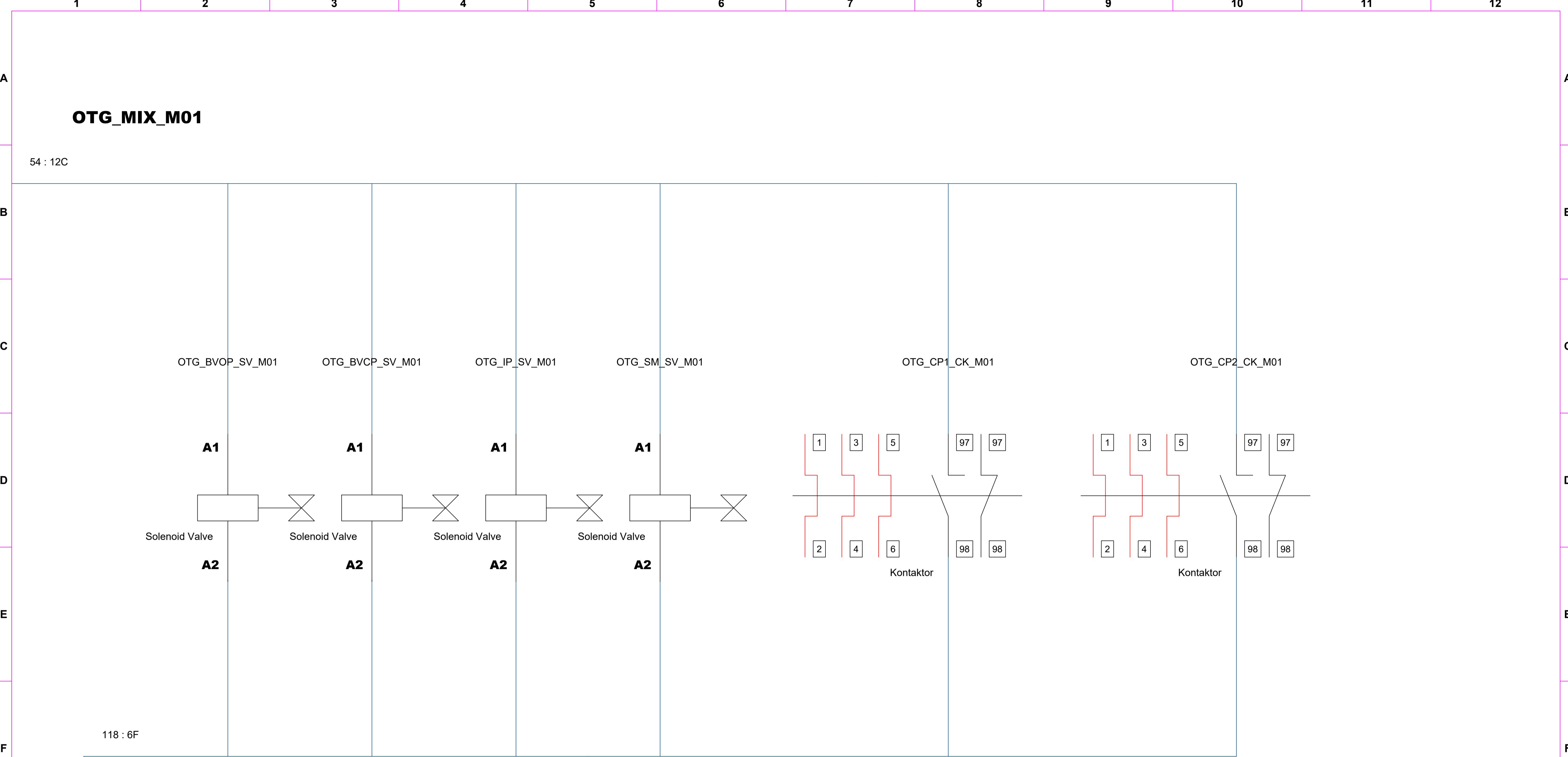
F

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+  
Sheet No.89  
121 Sheet

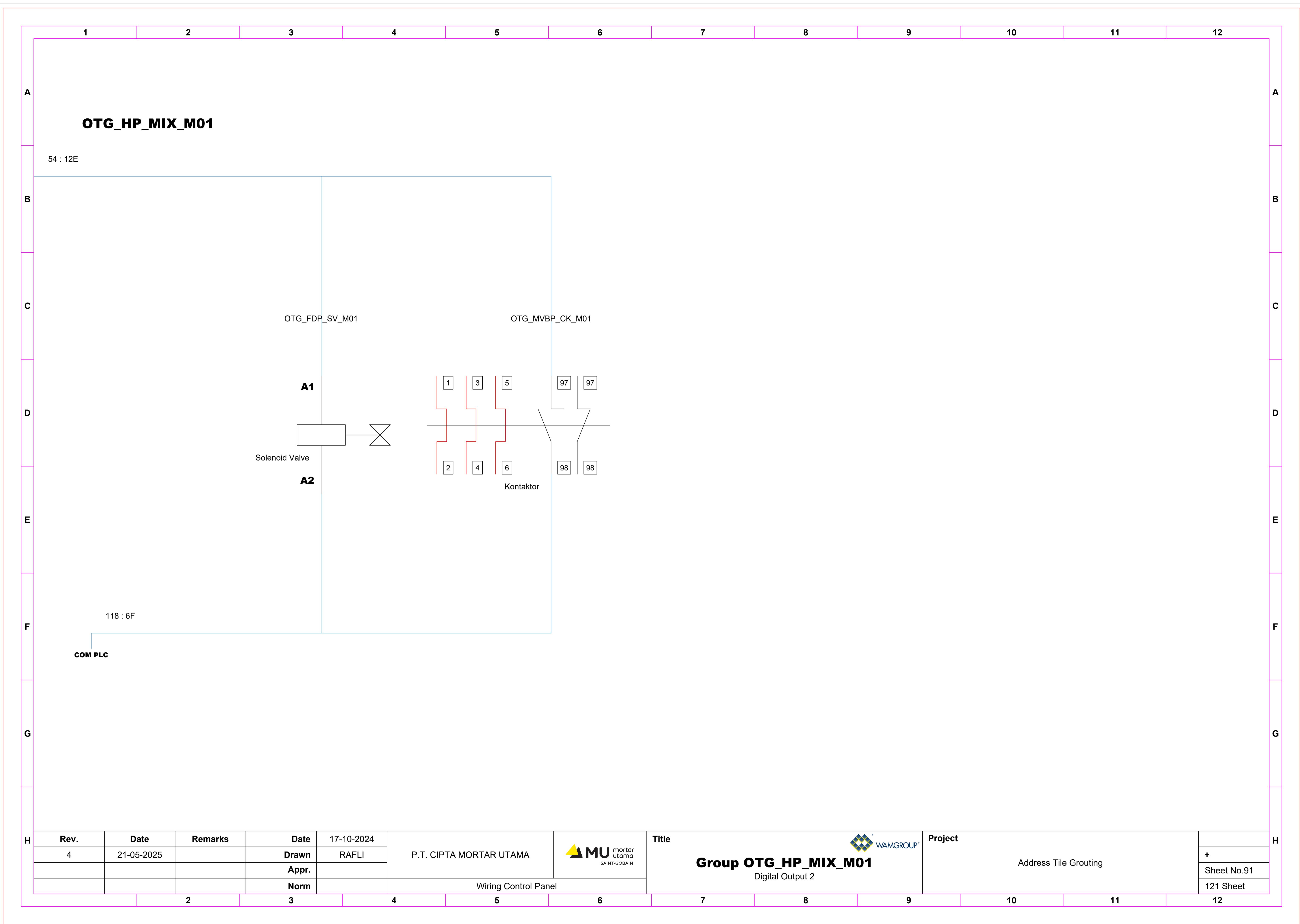
1 2 3 4 5 6 7 8 9 10 11 12



118 : 6F

COM PLC

Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 WAMGROUP	Title <b>Group OTG_MIX_M01</b> Digital Output 2	Project Address Tile Grouting	H			
4	21-05-2025		Drawn	RAFLI					+			
			Appr.						Sheet No.90			
			Norm		Wiring Control Panel				121 Sheet			
		2	3	4	5	6	7	8	9	10	11	12



1 2 3 4 5 6 7 8 9 10 11 12

A OTG\_RUN\_INV\_MIX\_M01 A

54 : 12F

55 : 12B

B

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C

OTG\_RUN\_INV\_S1\_M01 OTG\_STO\_INV\_S1\_M01 OTG\_RUN\_INV\_S2\_M01 OTG\_STO\_INV\_S2\_M01 OTG\_RUN\_INV\_S3\_M01 OTG\_STO\_INV\_S3\_M01 OTG\_RUN\_INVMIX\_M01 OTG\_STO\_INVMIX\_M01

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Solenoid Valve

A2

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A2

A2

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118 : 6F

COM PLC

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H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 WAMGROUP	Title	Digital Output 3	Project		H
	4	21-05-2025		Drawn	RAFLI			Group OTG_RUN_INV_MIX_M01		Address Tile Grouting	+	
				Appr.						Sheet No.92		
				Norm		Wiring Control Panel				121 Sheet		
											12	

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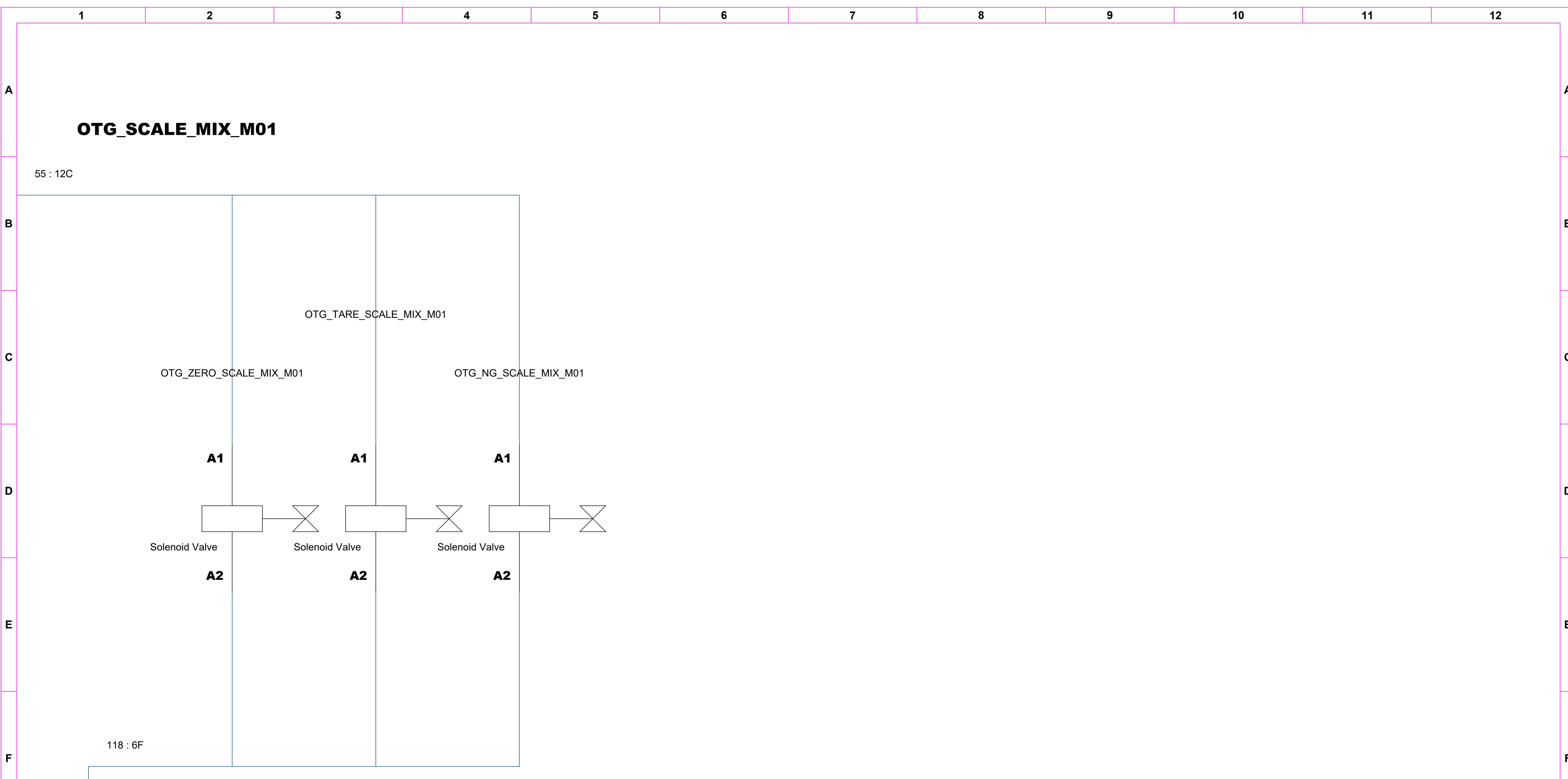
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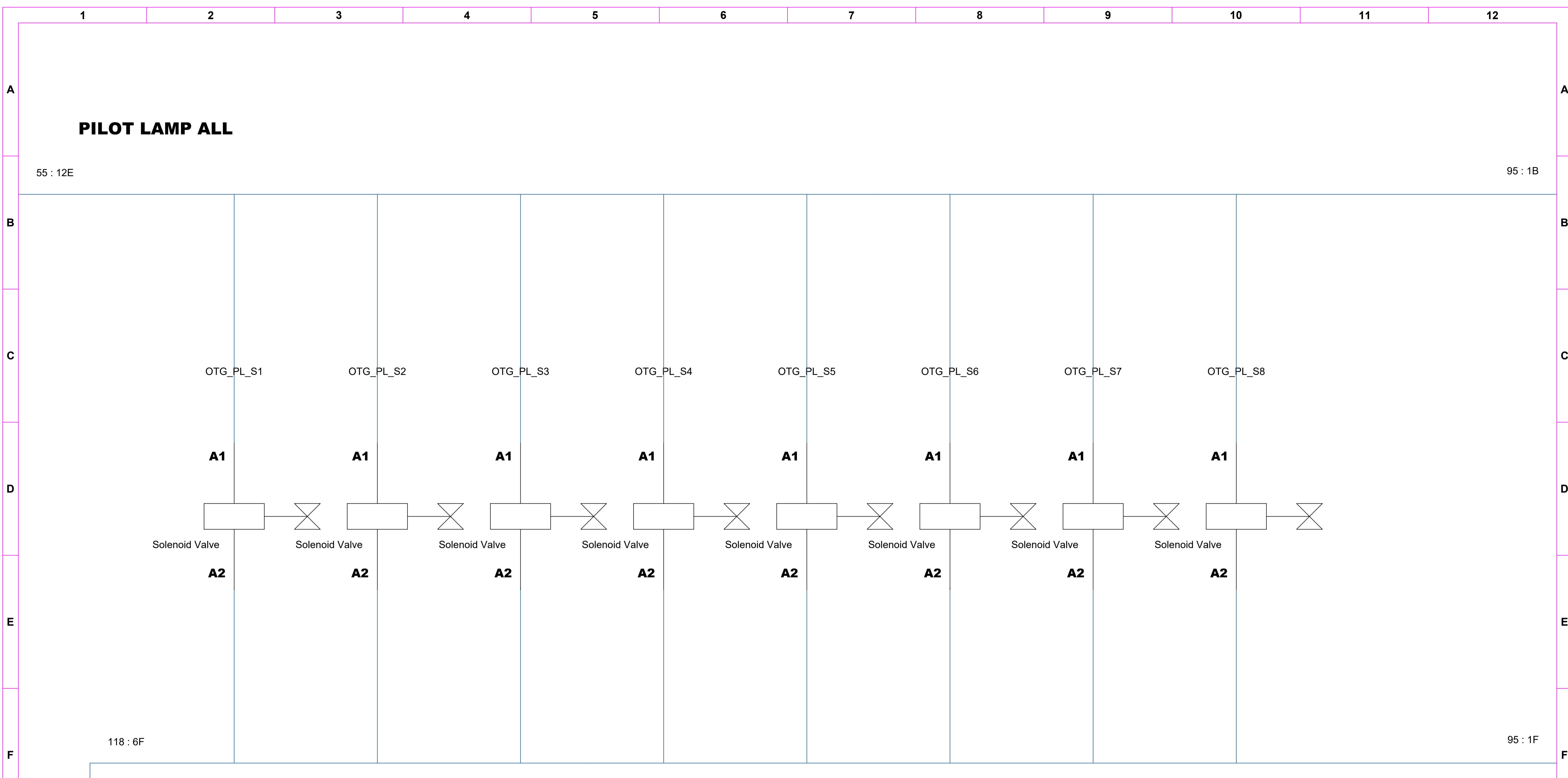
11

12

1 2 3 4 5 6 7 8 9 10 11 12



Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 WAMGROUP	Title <b>Group OTG_SCALE_MIX_M01</b> Digital Output 3	Project Address Tile Grouting	H			
4	21-05-2025		Drawn	RAFLI					+			
			Appr.						Sheet No.93			
			Norm		Wiring Control Panel				121 Sheet			
		2	3	4	5	6	7	8	9	10	11	12



H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA MU mortar utama SAINT-GOBAIN	Title  Group PILOT LAMP ALL Address Tile Grouting Digital Output 3 Wiring Control Panel	Project  WAMGROUP		H	
	4	21-05-2025		Drawn	RAFLI				+		
				Appr.					Sheet No.95		
				Norm					121 Sheet		
1	2	3	4	5	6	7	8	9	10	11	12

1 2 3 4 5 6 7 8 9 10 11 12

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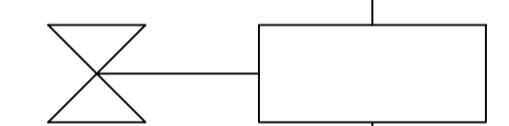
H

**OXP\_S03.2\_M02**

56 : 1A

OXP\_BV1.1\_SV\_SC03.2

**A1**



Solenoid Valve

**A2**

118 : 6F

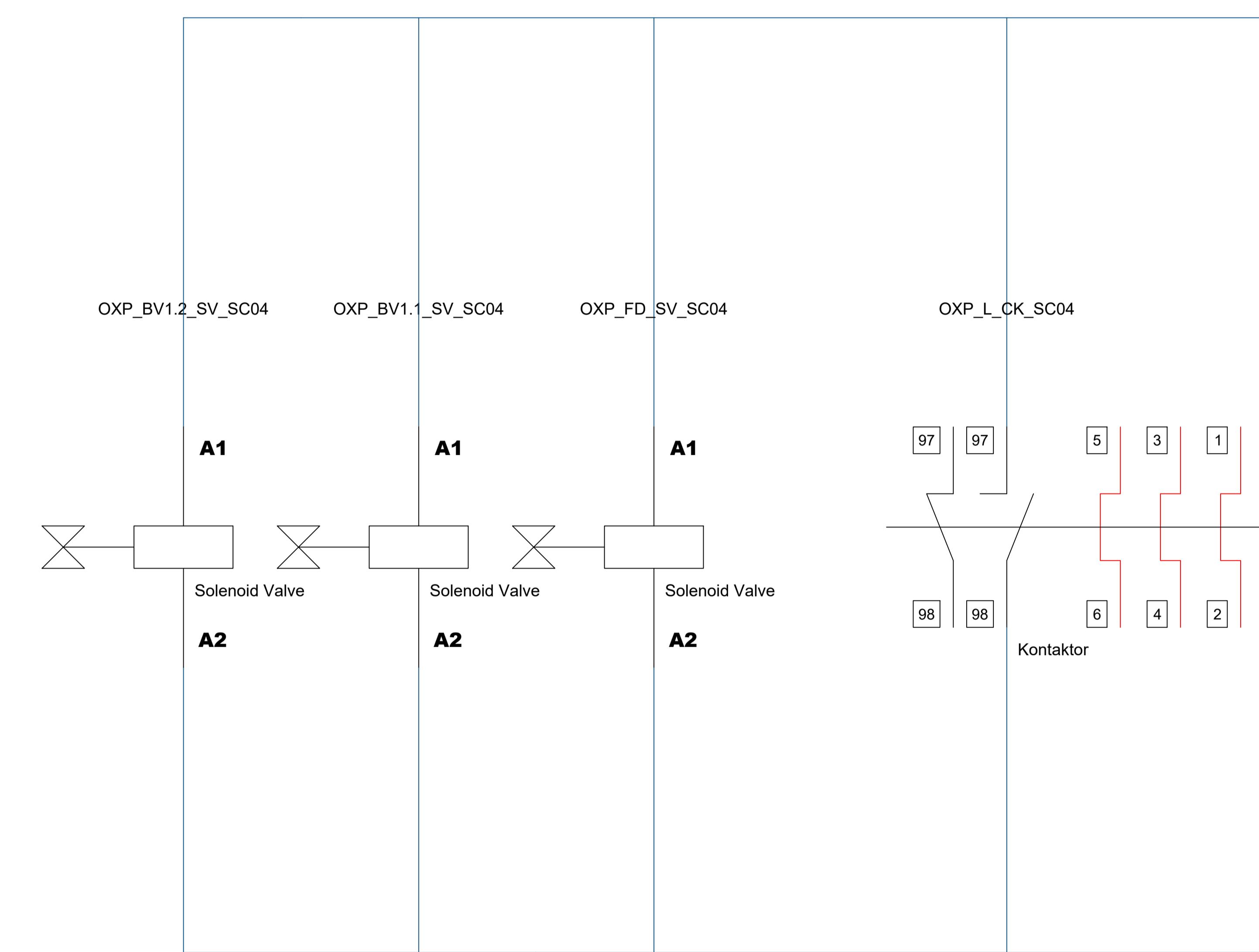
COM PLC

Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	<b>AMU</b> mortar utama SAINT-GOBAIN	Title	WAMGROUP	Project	
4	21-05-2025		Drawn	RAFLI					Pro-X Batching	+
			Appr.							Sheet No.96
			Norm		Wiring Control Panel					121 Sheet

**Group OXP\_S03.2\_M02**

Digital Output 1

2 3 4 5 6 7 8 9 10 11 12



**COM PLC**

H	<b>Rev.</b>	<b>Date</b>	<b>Remarks</b>	<b>Date</b>	17-10-2024	P.T. CIPTA MORTAR UTAMA	 <b>Group OXP_S04_M02</b> Digital Output 1	<b>Title</b>	<b>Project</b>	
	4	21-05-2025		<b>Drawn</b>	RAFLI					+
				<b>Appr.</b>						Sheet No.97
				<b>Norm</b>	Wiring Control Panel					121 Sheet

1 2 3 4 5 6 7 8 9 10 11 12

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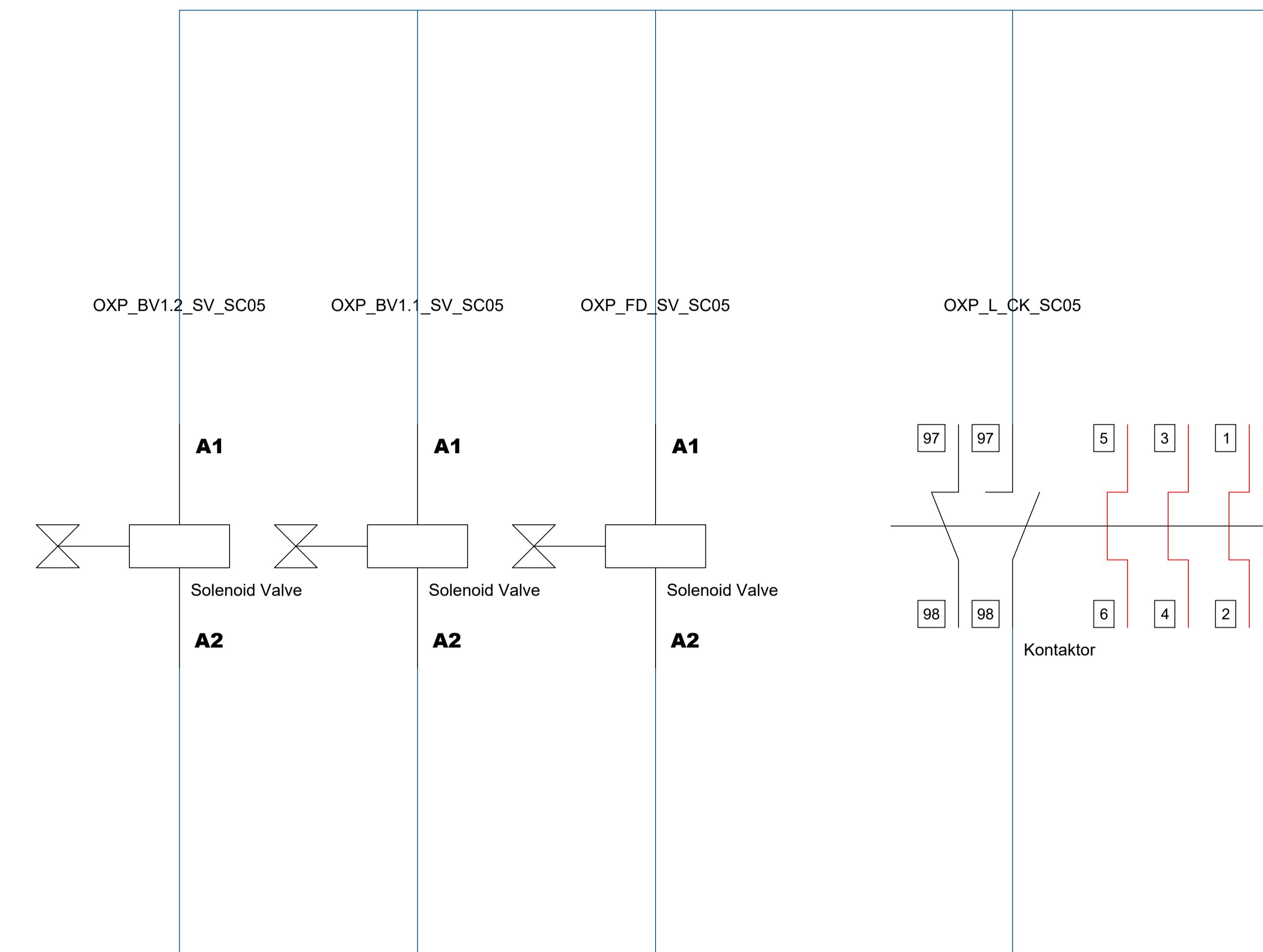
F

G

H

## OXP\_S05\_M02

56 : 1C



118 : 6F

COM PLC

Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA SAINT-GOBAIN	Title  Group OXP_S05_M02 Digital Output 1	Project Pro-X Batching	
4	21-05-2025		Drawn	RAFLI				+
			Appr.					Sheet No.98
			Norm		Wiring Control Panel			121 Sheet



1 2 3 4 5 6 7 8 9 10 11 12

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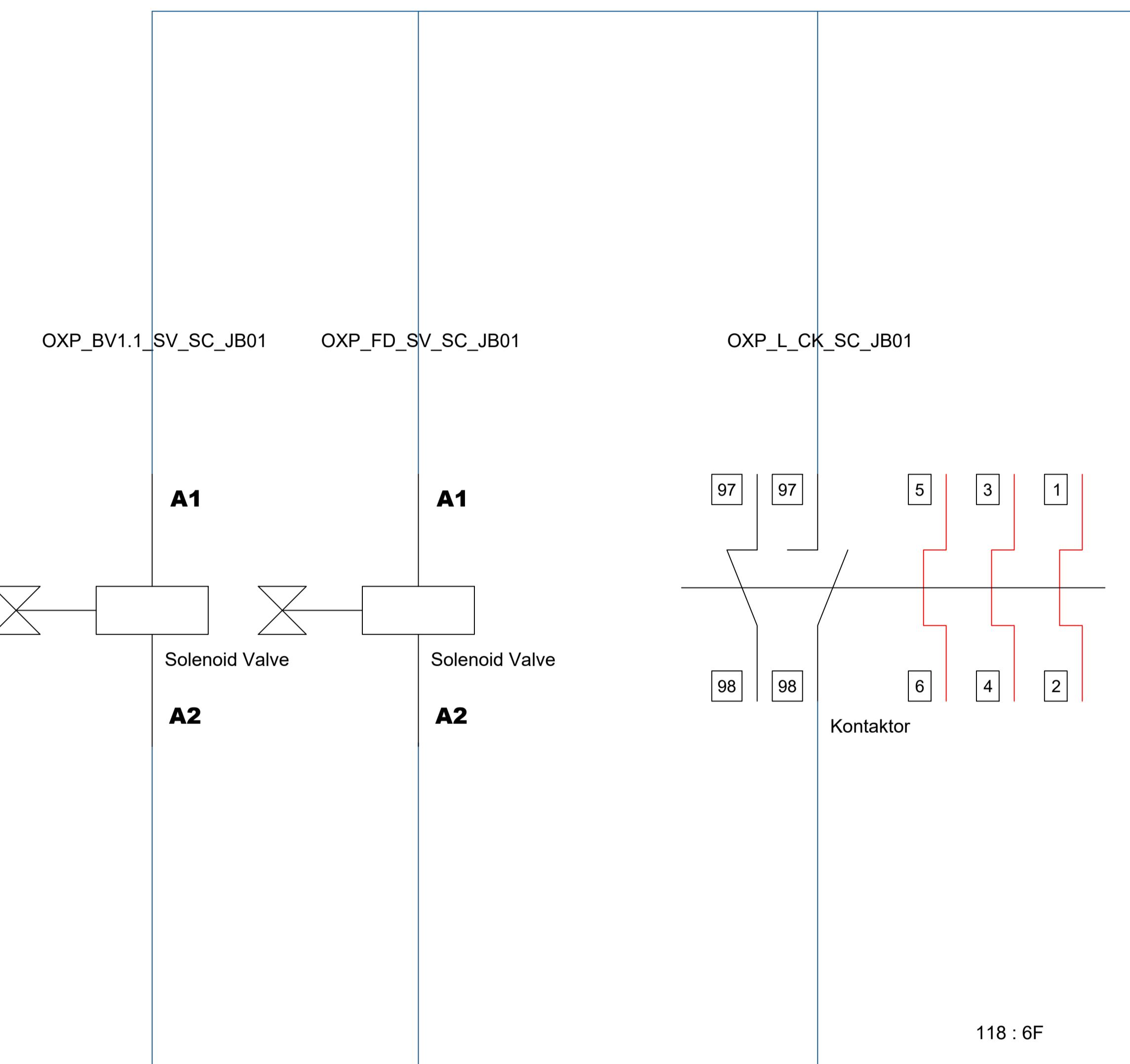
F

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**OXP\_JB01\_M02**

56 : 1D



OXP\_BV1.1\_SV\_SC\_JB01      OXP\_FD\_SV\_SC\_JB01

OXP\_L\_CK\_SC\_JB01

**A1**

**A2**

**A1**

**A2**



Solenoid Valve

Solenoid Valve

118 : 6F

COM PLC

Rev.	Date	Remarks	Date	Drawn	RAFLI	P.T. CIPTA MORTAR UTAMA	WAMGROUP	Project	
4	21-05-2025			Appr.				Pro-X Batching	+
				Norm		Wiring Control Panel			Sheet No.99
									121 Sheet

**Group OXP\_JB01\_M02**

Digital Output 1

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1 2 3 4 5 6 7 8 9 10 11 12

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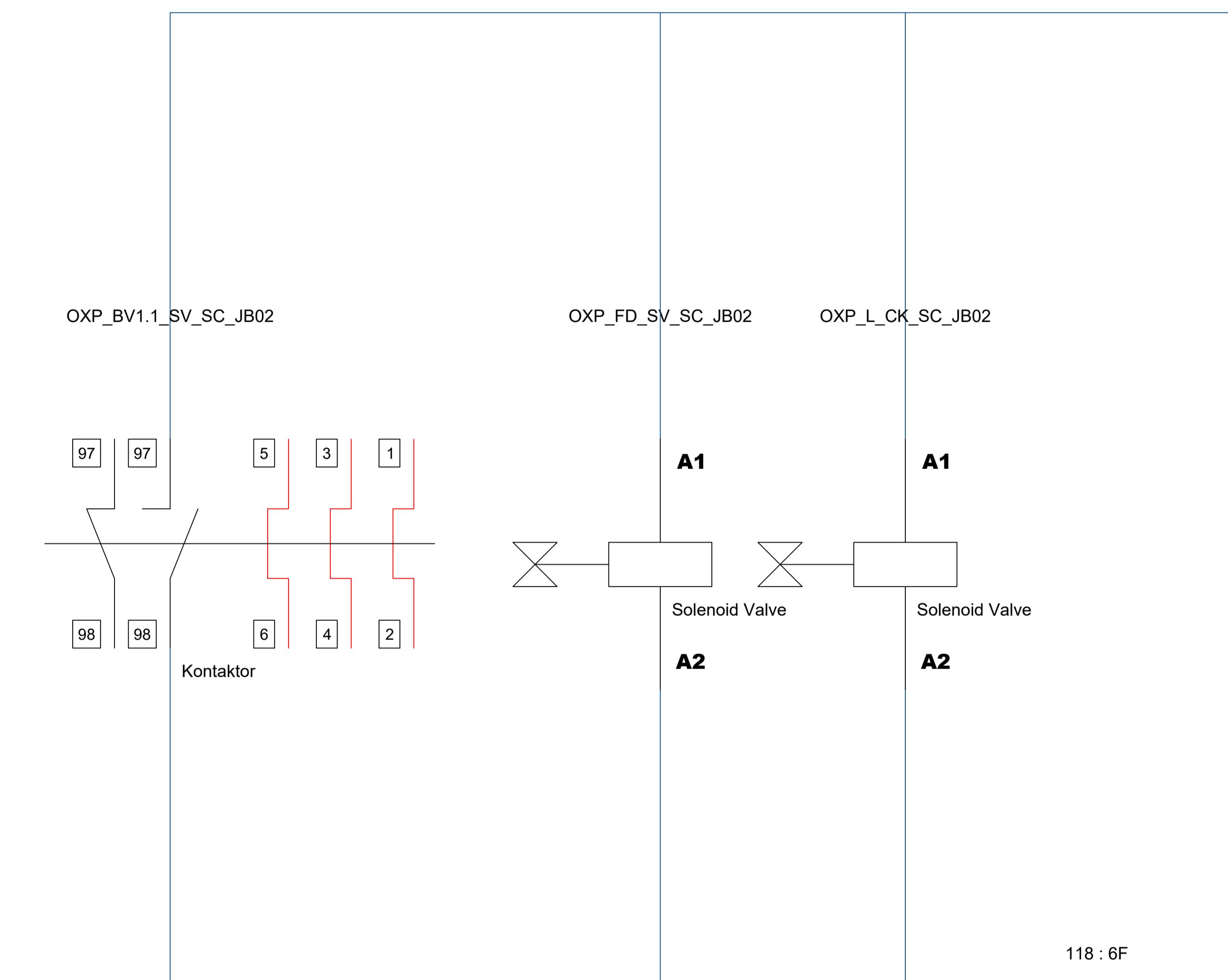
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## OXP\_JB02\_M02

56 : 1E



118 : 6F

COM PLC

**Group OXP\_JB02\_M02**  
Digital Output 1



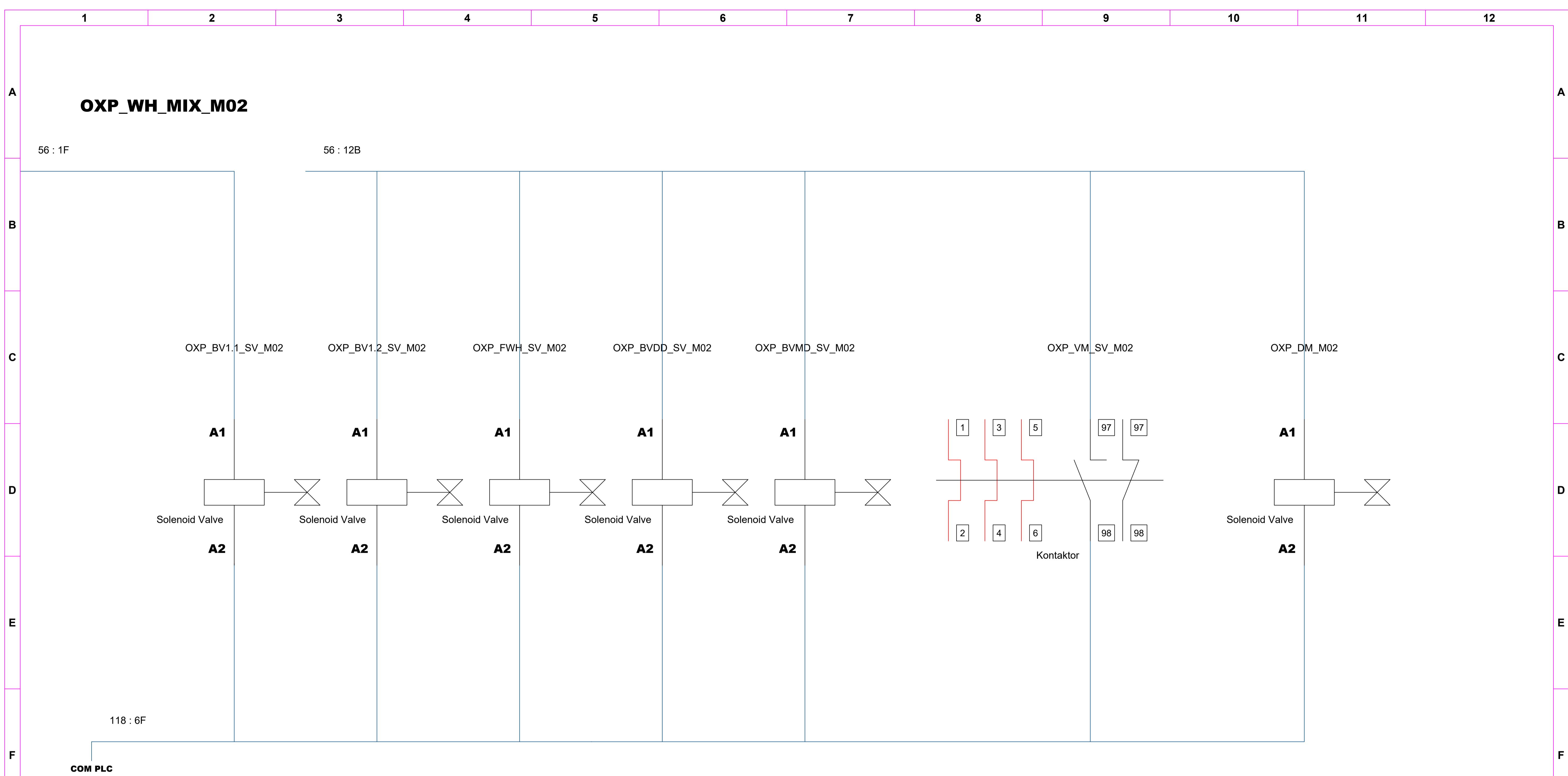
Project

Pro-X Batching

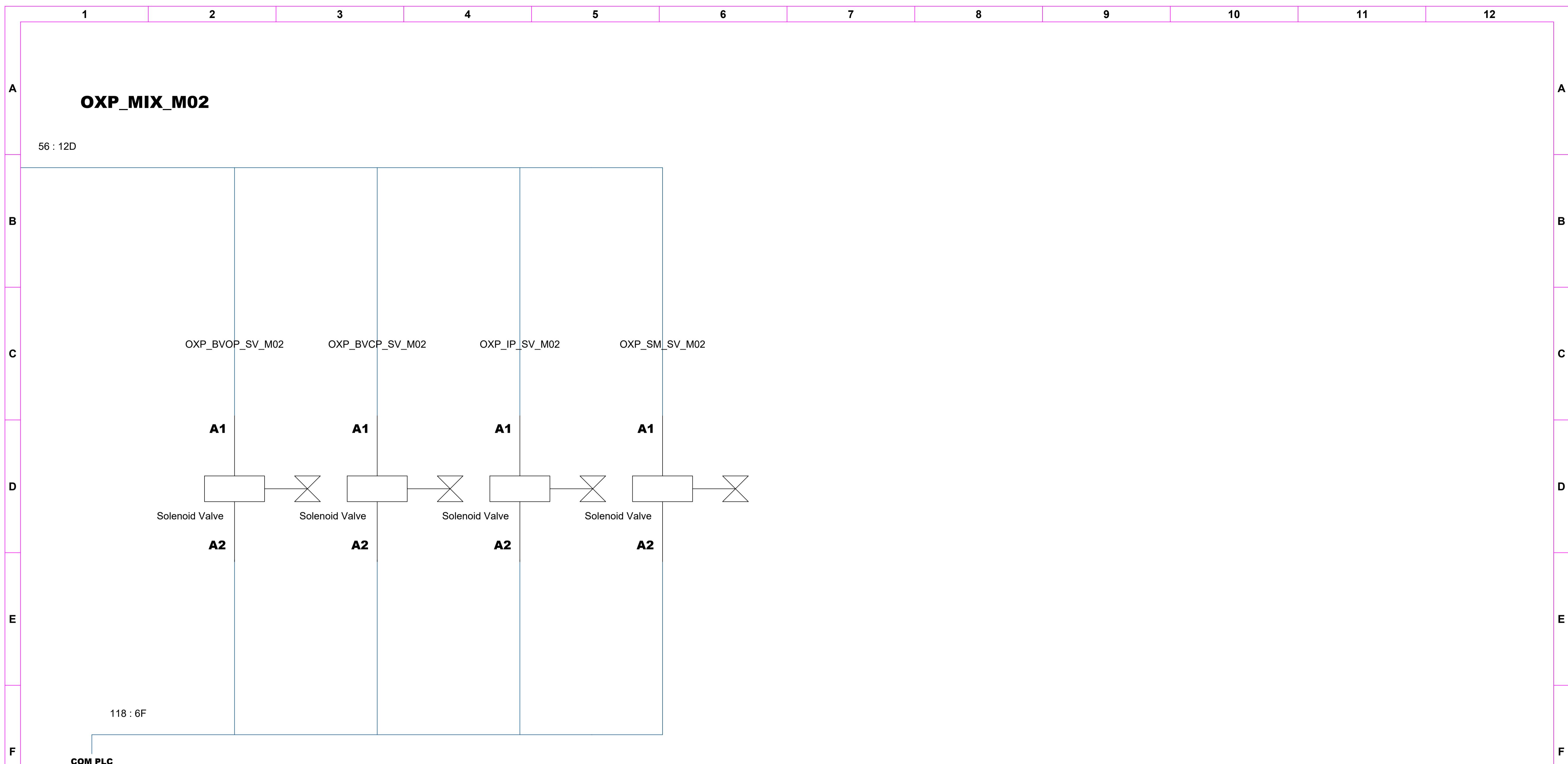
+
Sheet No.100
121 Sheet

Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA		Title	Project	Pro-X Batching	Sheet No.100	121 Sheet
4	21-05-2025		Drawn	RAFLI							
			Appr.								
			Norm		Wiring Control Panel						

2 3 4 5 6 7 8 9 10 11 12



H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA MU mortar utama SAINT-GOBAIN	Title  Group OXP_WH_MIX_M02 Pro-X Batching Digital Output 1 Wiring Control Panel	Project  + Sheet No.101 121 Sheet	H
4	21-05-2025		Drawn	RAFLI					
			Appr.						
			Norm						



H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA MU mortar utama SAINT-GOBAIN	Title WAMGROUP® Group OXP_MIX_M02 Pro-X Batching Digital Output 1	Project H
	4	21-05-2025		Drawn	RAFLI			
				Appr.				
				Norm	Wiring Control Panel			

**OXP\_HP\_MIX\_M02**

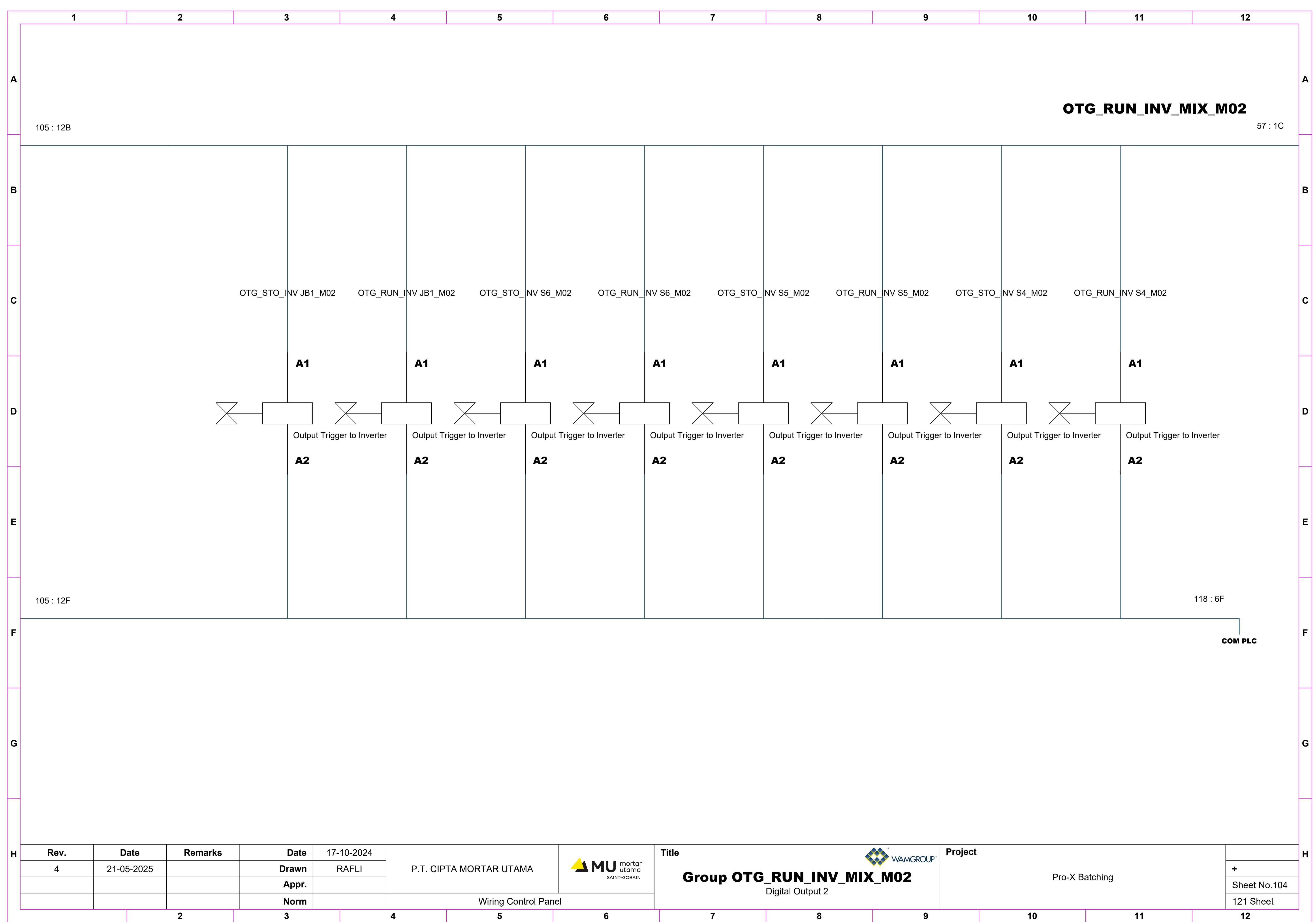
56 : 12E

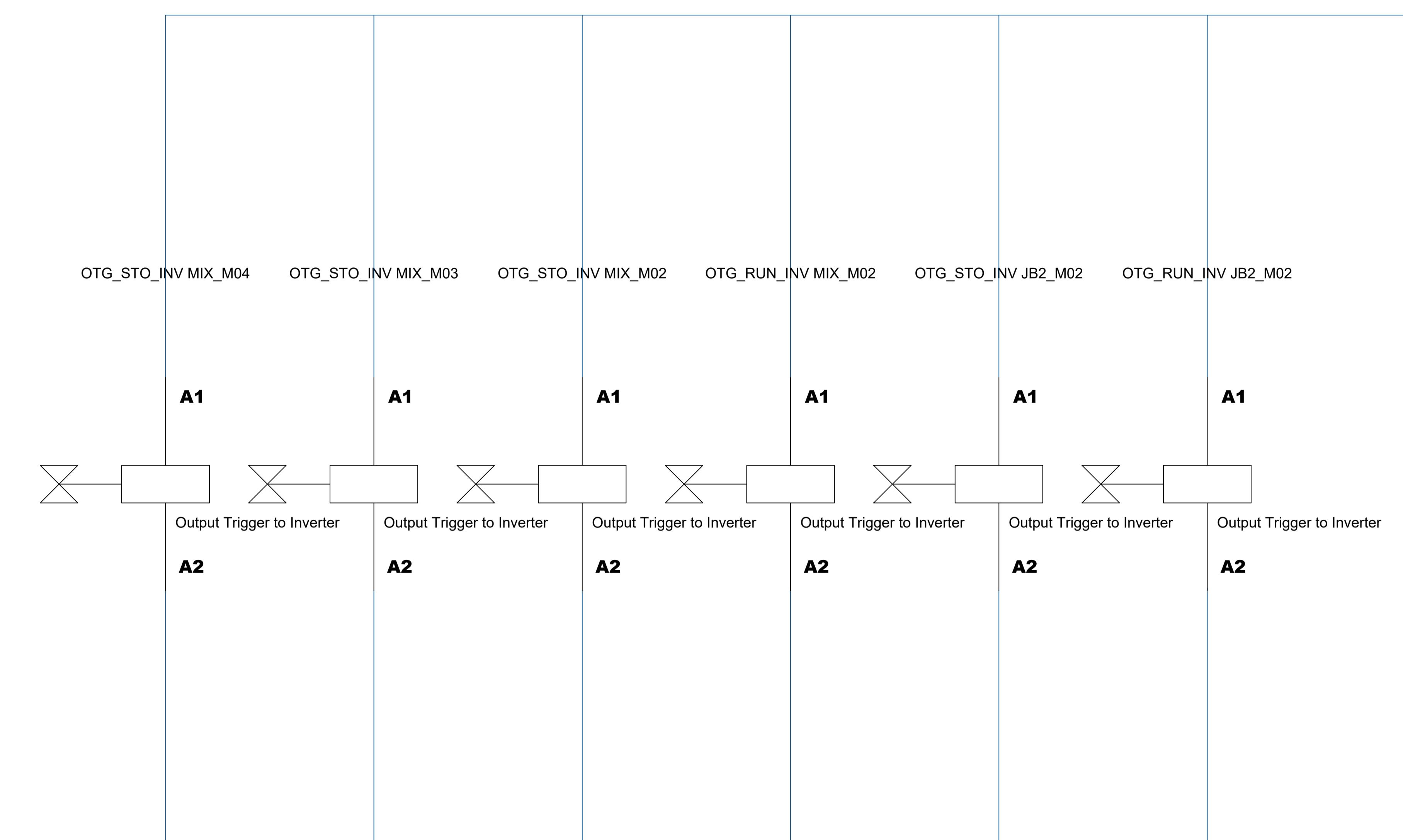
**B****A****C****B****D****C**

OXP\_FDP\_SV\_M02 OXP\_MVBP\_CK\_M02 OXP\_DIV\_SV\_M02 OXP\_BVHP1.1\_SV\_M02 OXP\_BVHP1.2\_SV\_M02 OXP\_BVHP1.3\_SV\_M02

**A1****A1****A1****A1****A1****A1****A1****A2****A2****A2****A2****A2****A2****A2****E****D****F****E****G****F**

H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 WAMGROUP	Title <b>Group OXP_HP_MIX_M02</b> Digital Output 1	Project Pro-X Batching		H	
	4	21-05-2025			Drawn					+		
					Appr.					Sheet No.103		
				Norm		Wiring Control Panel				121 Sheet		
		2	3	4	5	6	7	8	9	10	11	12





H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA Appr.	Title	Project Pro-X Batching	H	
4	21-05-2025			Drawn	RAFLI		<b>Group OTG_RUN_INV_MIX_M02</b> Digital Output 2		+	
				Norm					Sheet No.105	

Wiring Control Panel

# OTG\_SCALE\_MIX\_M02

57 : 1B

57 : 12B

OTG\_ZERO\_SCALE\_MIX\_M02

OTG\_TARE\_SCALE\_MIX\_M02

OTG\_NG\_SCALE\_MIX\_M02\_DIV\_SV\_M02

**A1****A1****A1**

Zero Indikator

Tare Indikator

Net Gross Indikator

**A2****A2****A2**

118 : 6F

COM PLC

H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 WAMGROUP	Title <b>Group OTG_SCALE_MIX_M02</b> Digital Output 2	Project Pro-X Batching		H
	4	21-05-2025		Drawn	RAFLI						
				Appr.							
				Norm		Wiring Control Panel				+ Sheet No.106 121 Sheet	

A

**OTG\_PINCH\_SILO**

57 : 12D

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OTG\_BV\_PINCH\_S1      OTG\_BV\_PINCH\_S2      OTG\_BV\_PINCH\_S3      OTG\_BV\_PINCH\_S4      OTG\_BV\_PINCH\_S5      OTG\_BV\_PINCH\_S6      OTG\_BV\_PINCH\_S7      OTG\_BV\_PINCH\_S8      OTG\_BV\_PINCH\_S9

**A1****A1****A1****A1****A1****A1****A1****A1****A1****A1**

Solenoid Valve

**A2****A2****A2****A2****A2****A2****A2****A2****A2****A2**

118 : 6F

COM PLC

H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 <b>WAMGROUP</b> <b>Group OTG_PINCH_SILO</b> Digital Output 2	Project Pro-X Batching		H
	4	21-05-2025			Drawn				+	
					Appr.				Sheet No.107	
				Norm		Wiring Control Panel			121 Sheet	

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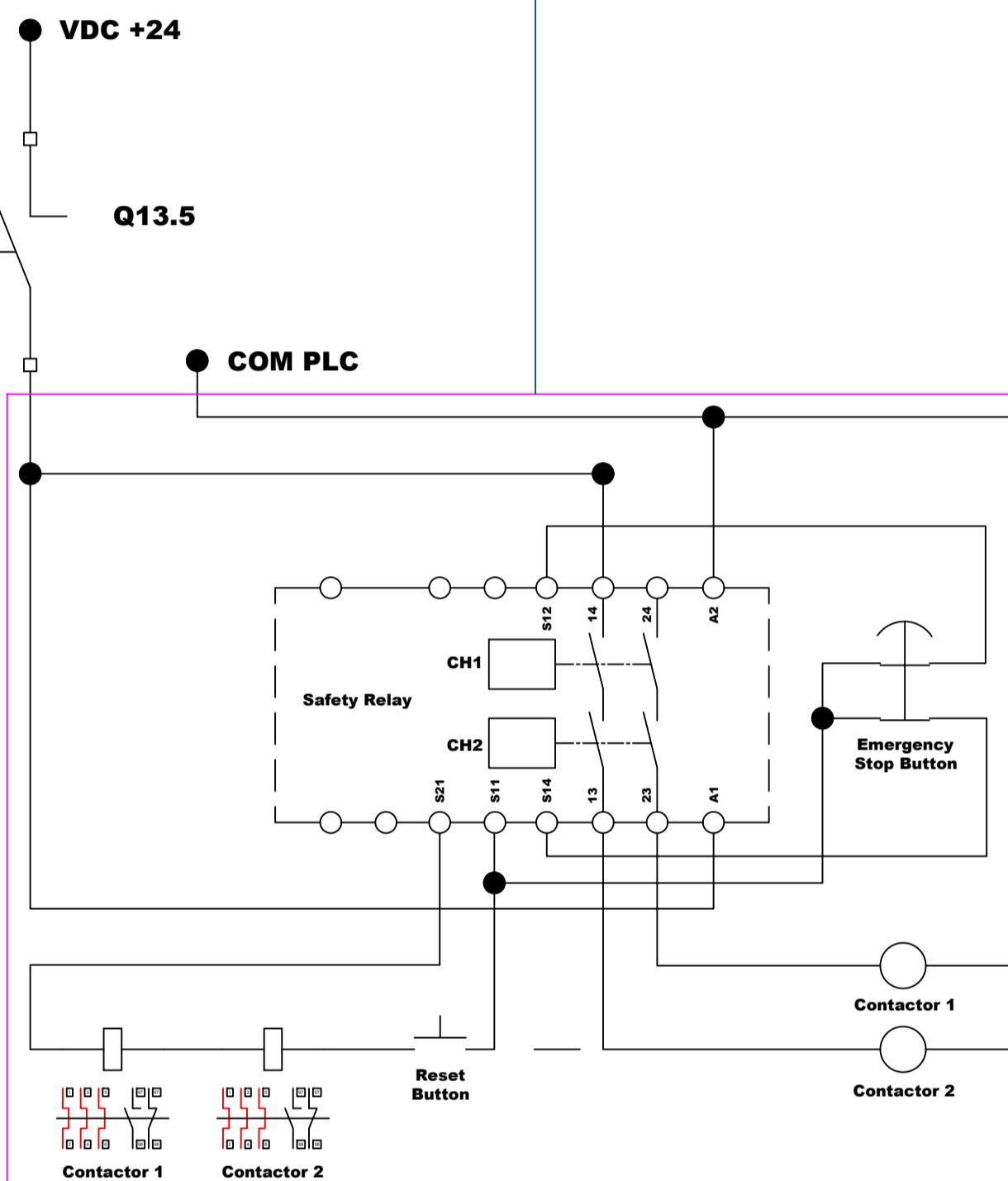
12

1 2 3 4 5 6 7 8 9 10 11 12

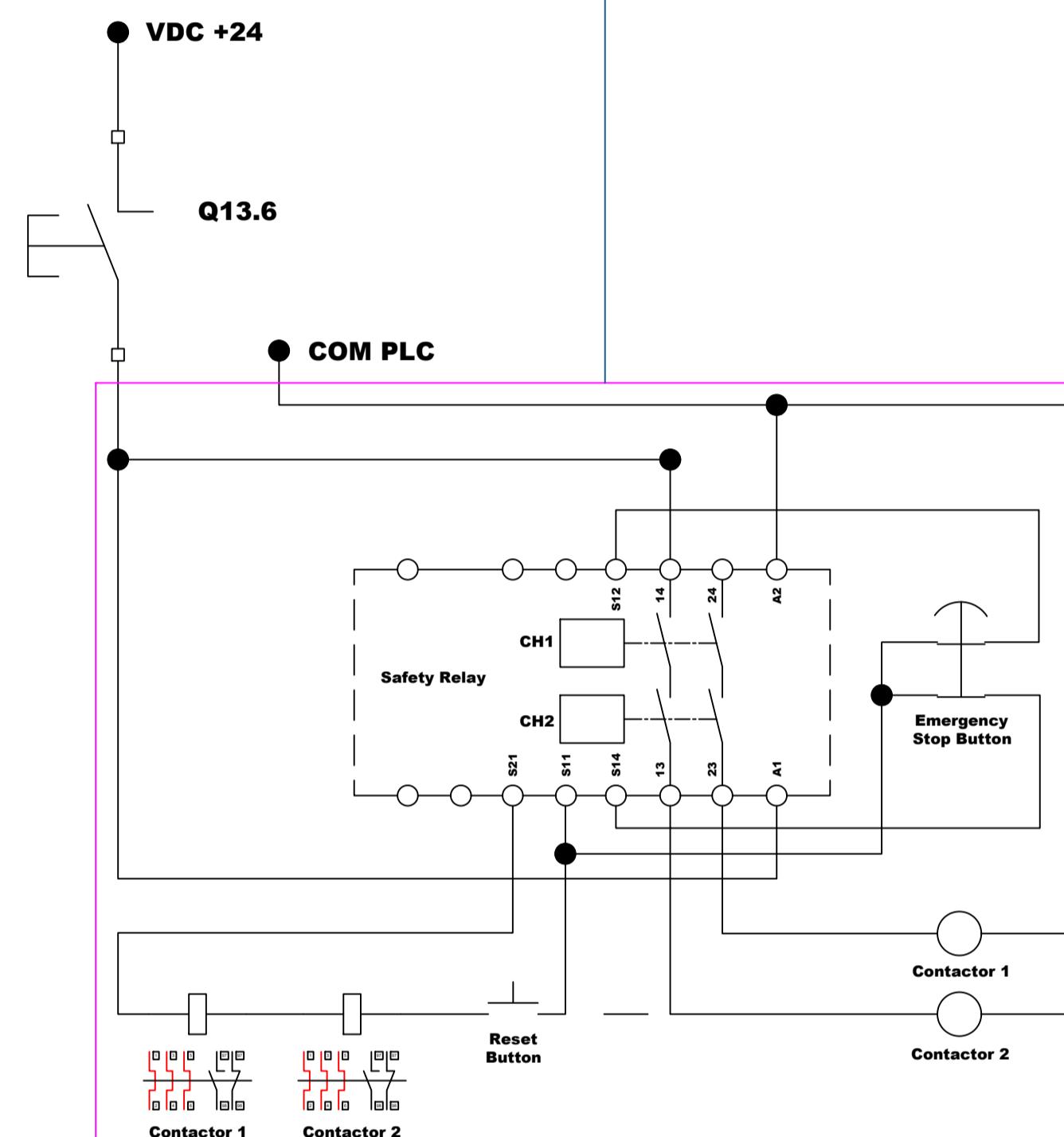
## RELAY

57 : 12F

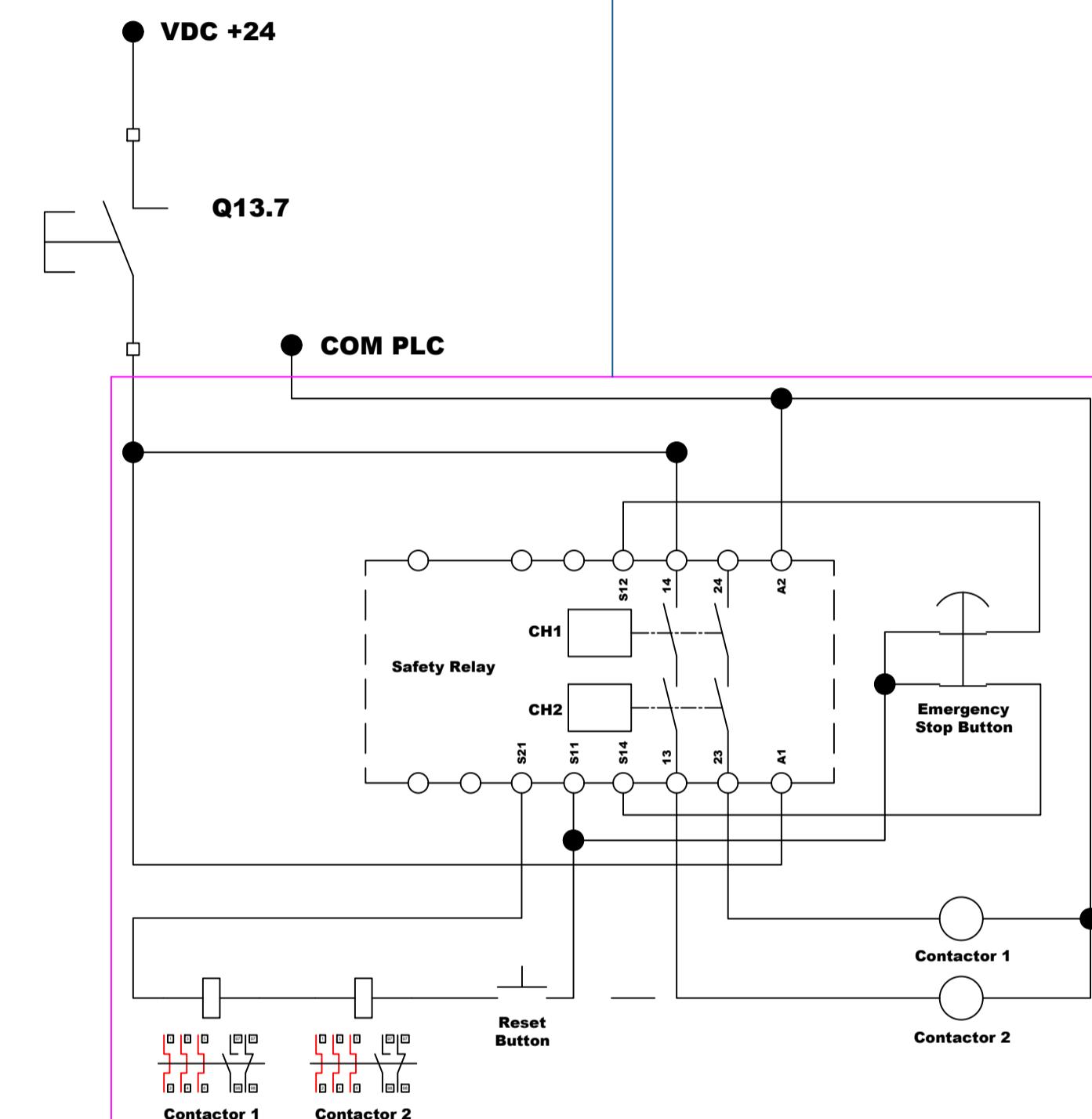
B



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118 : 6F

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COM PLC

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Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA 	Title  Group RELAY Digital Output 2	Project  Pro-X Batching		
4	21-05-2025		Drawn	RAFLI					
			Appr.						
			Norm					+ Sheet No.108 121 Sheet	

2 3 4 5 6 7 8 9 10 11 12

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1 2 3 4 5 6 7 8 9 10 11 12

## ONS\_S07\_M03

58 : 12B

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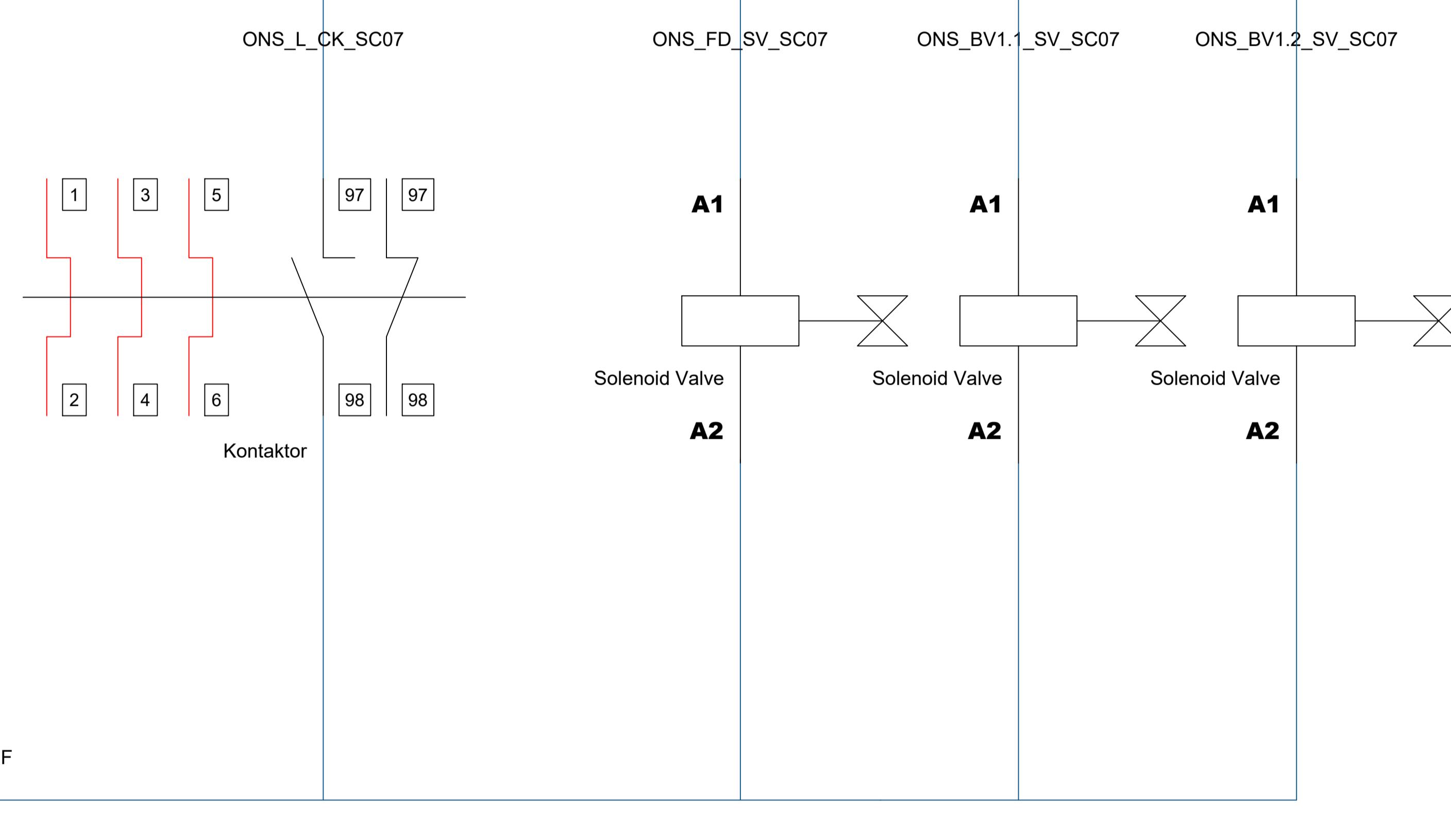
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Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 WAMGROUP	Title Group ONS_S07_M03 Digital Output 1	Project Non Sanded Batching	
4	21-05-2025		Drawn	RAFLI					+
			Appr.						Sheet No.109
			Norm		Wiring Control Panel				121 Sheet

2 3 4 5 6 7 8 9 10 11 12

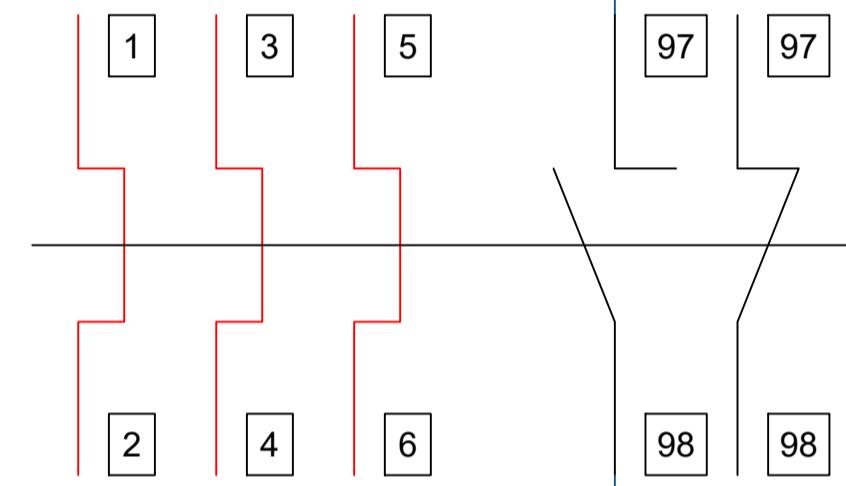
1 2 3 4 5 6 7 8 9 10 11 12

## ONS\_S08\_M03

58 : 12C

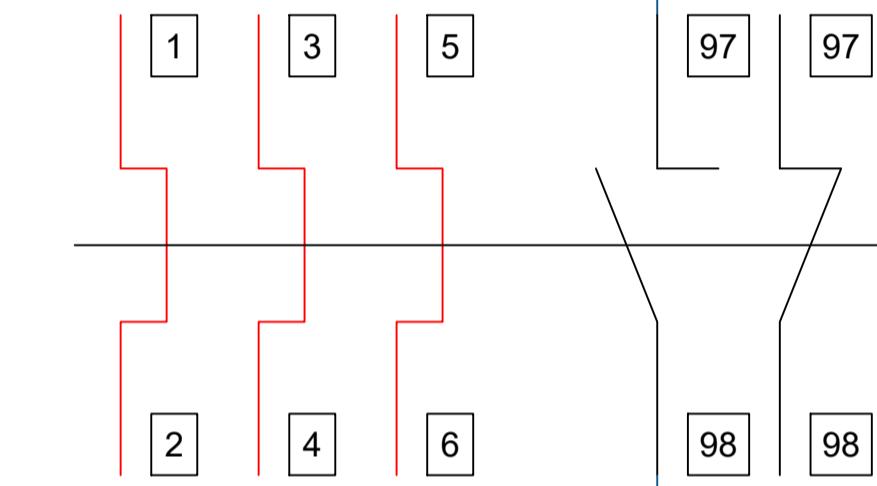
B

ONS\_L\_CK\_SC08



Kontaktor

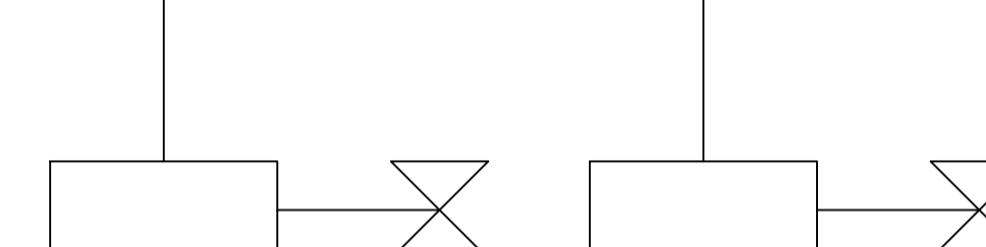
ONS\_BV\_VM\_SC08



Kontaktor

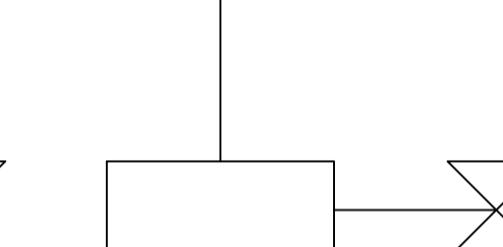
ONS\_BV1.1\_SV\_SC08

Solenoid Valve



ONS\_BV1.2\_SV\_SC08

Solenoid Valve



118 : 6F

COM PLC

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Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 WAMGROUP	Title Group ONS_S08_M03 Digital Output 1	Project Non Sanded Batching	
4	21-05-2025		Drawn	RAFLI					+
			Appr.						Sheet No.110
			Norm						121 Sheet

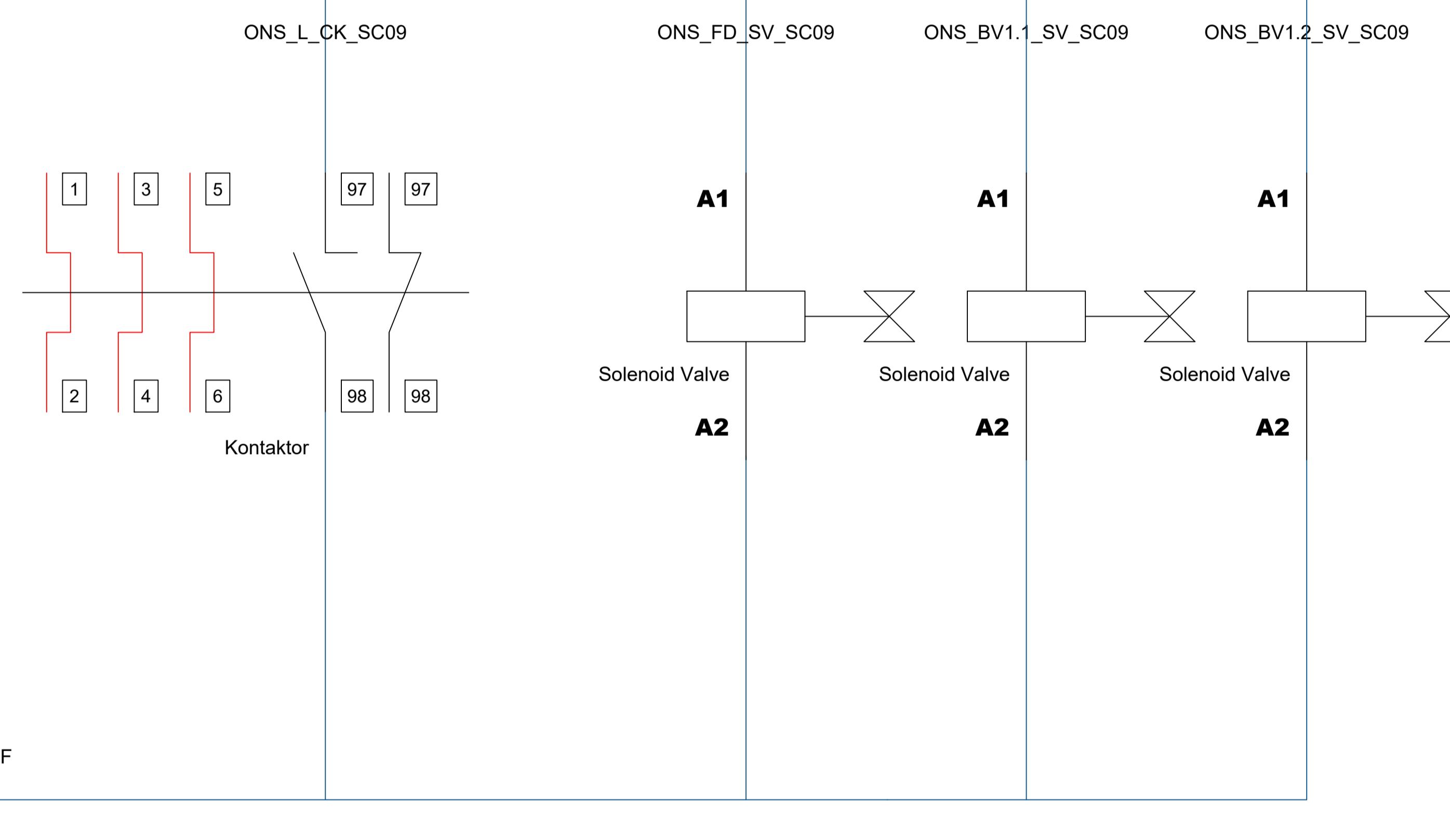
2 3 4 5 6 7 8 9 10 11 12

1 2 3 4 5 6 7 8 9 10 11 12

## ONS\_S09\_M03

58 : 12E

B



ONS\_L\_CK\_SC09

ONS\_FD\_SV\_SC09

ONS\_BV1.1\_SV\_SC09

ONS\_BV1.2\_SV\_SC09

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118 : 6F

COM PLC

Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 WAMGROUP	Title Group ONS_S09_M03 Digital Output 1	Project Non Sanded Batching		
4	21-05-2025		Drawn	RAFLI			Norm	Wiring Control Panel	+	Sheet No.111
										121 Sheet

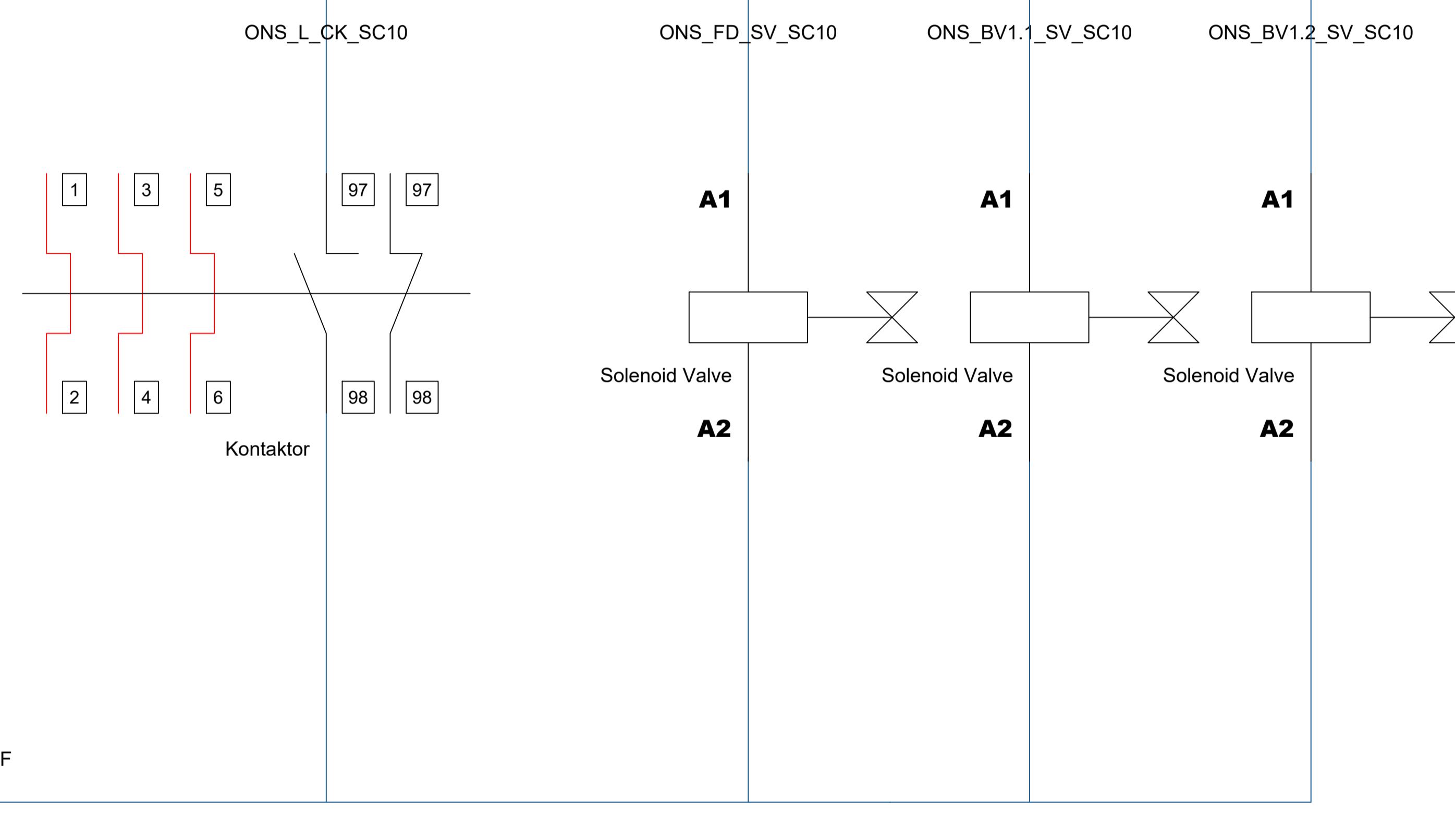
1 2 3 4 5 6 7 8 9 10 11 12

1 2 3 4 5 6 7 8 9 10 11 12

## ONS\_S10\_M03

58 : 12F

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118 : 6F

COM PLC

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Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 WAMGROUP	Title <b>Group ONS_S10_M03</b> Digital Output 1	Project Non Sanded Batching		H
4	21-05-2025		Drawn	RAFLI					+	
			Appr.						Sheet No.112	
			Norm		Wiring Control Panel				121 Sheet	

1 2 3 4 5 6 7 8 9 10 11 12

1 2 3 4 5 6 7 8 9 10 11 12

A

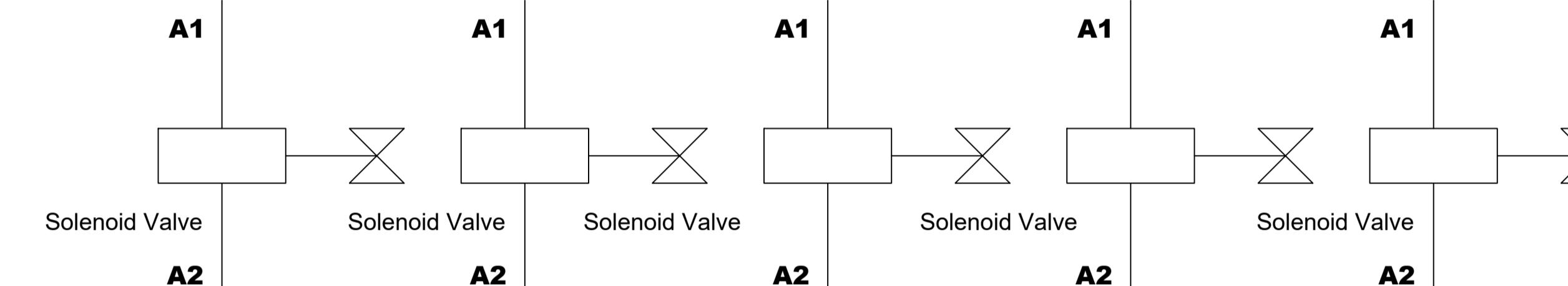
## ONS\_WH\_MIX\_M03

59 : 12C

B

ONS\_BV1.1\_SV\_M03 ONS\_BV1.2\_SV\_M03 ONS\_FWH\_SV\_M03 ONS\_BVDD\_SV\_M03 ONS\_BVMD\_SV\_M03 ONS\_VM1.1\_SV\_M03 ONS\_VM1.2\_SV\_M03 ONS\_DM\_M03

C



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Solenoid Valve Solenoid Valve Solenoid Valve Solenoid Valve Solenoid Valve

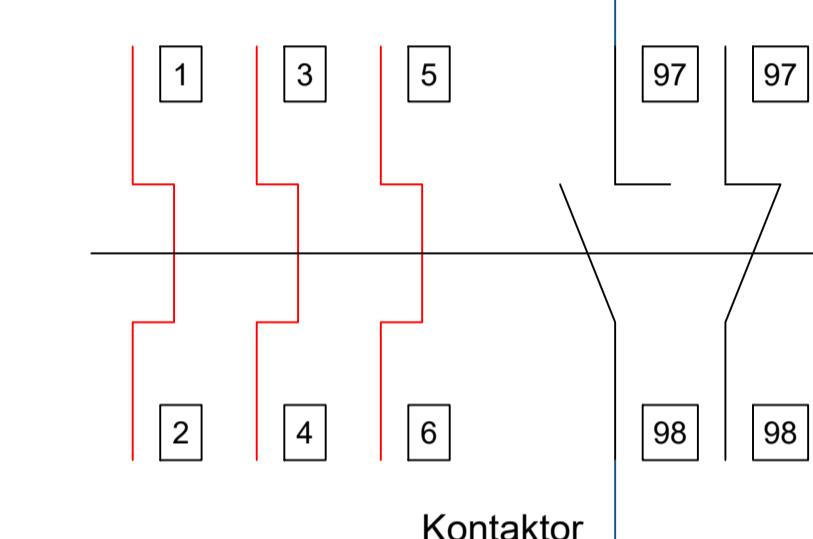
E

118 : 6F  
COM PLC

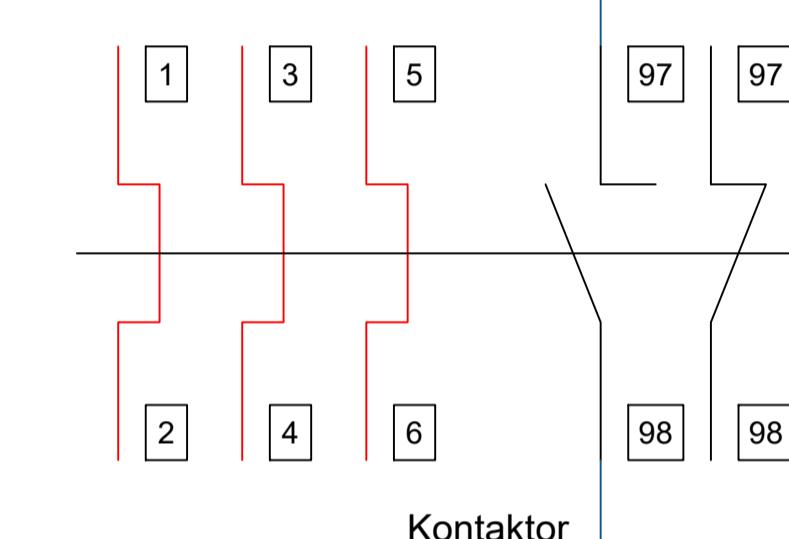
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Kontaktor



Kontaktor

Solenoid Valve

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Rev.	Date	Remarks	Date	Drawn	Appr.	Norm	P.T. CIPTA MORTAR UTAMA	<b>AMU</b> mortar utama SAINT-GOBAIN	Title	Project	
4	21-05-2025			RAFLI					Group ONS_WH_MIX_M03	Non Sanded Batching	+
									Digital Output 2		Sheet No.113
											121 Sheet

2 3 4 5 6 7 8 9 10 11 12

1 2 3 4 5 6 7 8 9 10 11 12

**ONS\_MIX\_M03**

59 : 12E

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ONS\_BVOP\_SV\_M03 ONS\_BVCP\_SV\_M03 ONS\_IP\_SV\_M03 ONS\_SM\_SV\_M03

**A1****A1****A1****A1**

Solenoid Valve Solenoid Valve Solenoid Valve Solenoid Valve

**A2****A2****A2****A2**

118 : 6F

COM PLC

Rev.	Date	Remarks	Date	Drawn	Appr.	Norm	P.T. CIPTA MORTAR UTAMA	<b>AMU</b> mortar utama SAINT-GOBAIN	Title	Project	
4	21-05-2025			RAFLI					Group <b>ONS_MIX_M03</b>	Non Sanded Batching	+
									Digital Output 2		Sheet No.114
											121 Sheet

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1 2 3 4 5 6 7 8 9 10 11 12

## ONS\_HP\_MIX\_M03

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ONS\_MX3\_OC1\_KC\_M03

ONS\_MX3\_OC2\_KC\_M03

ONS\_MX3\_OC3\_KC\_M03

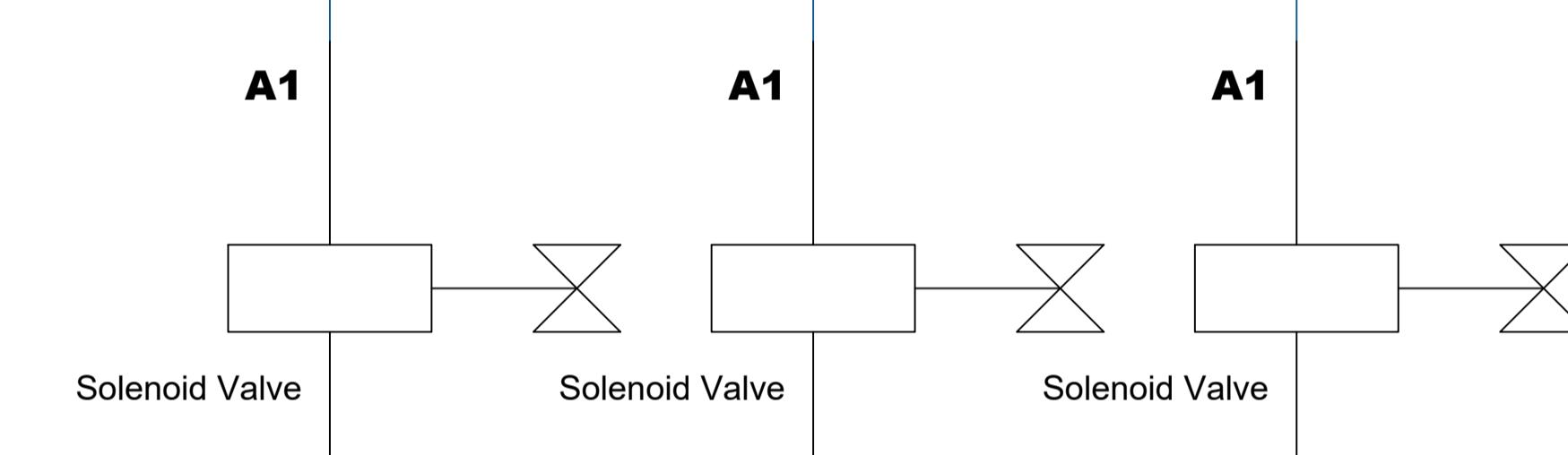
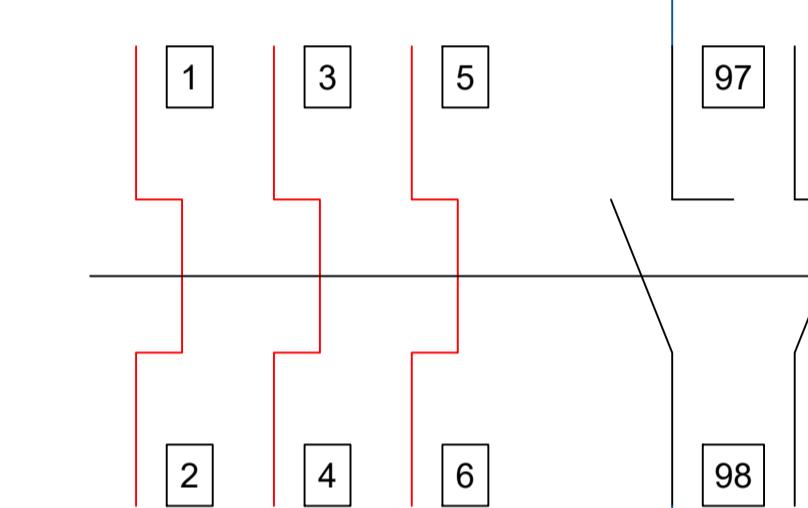
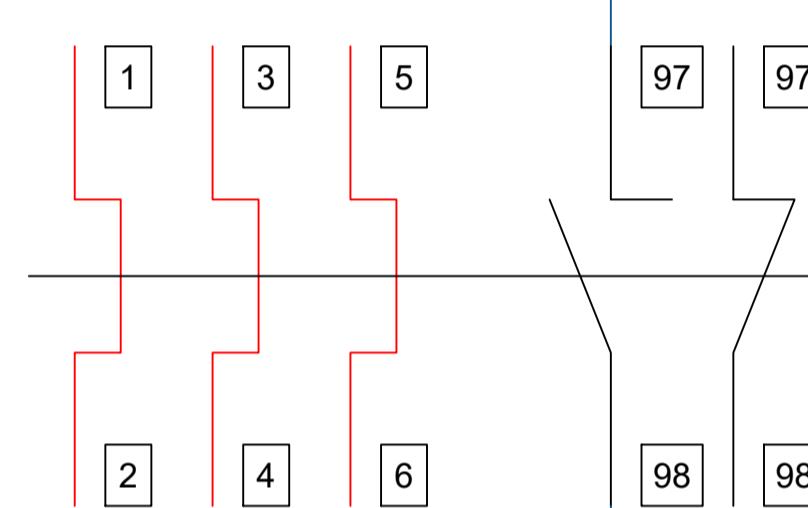
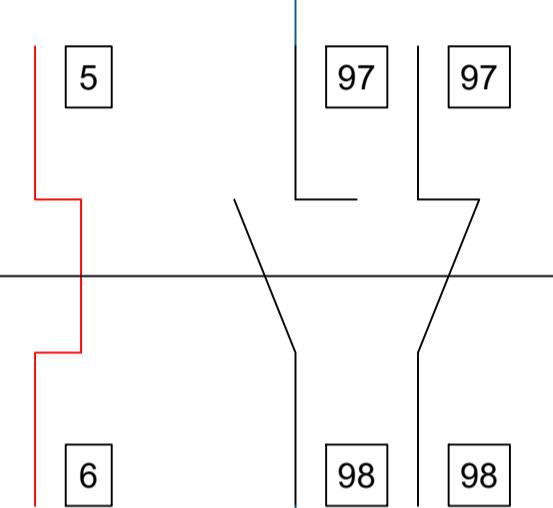
ONS\_FUH\_SV\_M03

ONS\_MX3\_VM1.1\_SV\_M03

ONS\_MX3\_VM1.2\_SV\_M03

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118 : 6F

COM PLC

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H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA Appr. Norm	WAMGROUP SAINT-GOBAIN Wiring Control Panel	Title <b>Group ONS_HP_MIX_M03</b> Digital Output 2	Project Non Sanded Batching	
	4	21-05-2025			Drawn RAFLI					+
										Sheet No.115
										121 Sheet

2 3 4 5 6 7 8 9 10 11 12

1 2 3 4 5 6 7 8 9 10 11 12

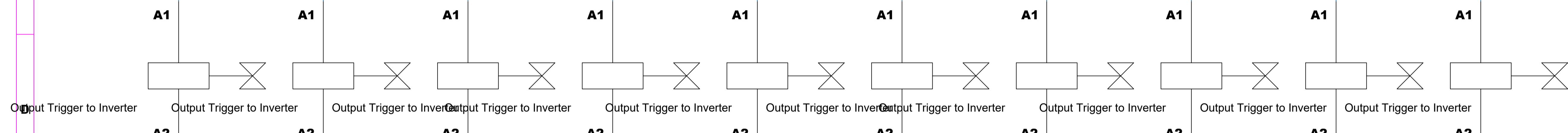
A OTG\_RUN\_INV\_MIX\_M02 A

60 :12D

B

C OTG\_RUN\_INV S7\_M03 OTG\_STO\_INV S7\_M03 OTG\_RUN\_INV S8\_M03 OTG\_STO\_INV S8\_M03 OTG\_RUN\_INV S9\_M03 OTG\_STO\_INV S9\_M03 OTG\_RUN\_INV S10\_M03 OTG\_STO\_INV S10\_M03 OTG\_RUN\_INV MIX\_M03 OTG\_STO\_INV MIX\_M03

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118 : 6F

F COM PLC F

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H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 WAMGROUP	Title	Project Non Sanded Batching
	4	21-05-2025		Drawn	RAFLI				
				Appr.					
				Norm		Wiring Control Panel		Group OTG_RUN_INV_MIX_M02 Digital Output 3	
									+ Sheet No.116 121 Sheet

2 3 4 5 6 7 8 9 10 11 12

1 2 3 4 5 6 7 8 9 10 11 12

A

A

## OTG\_SCALE\_MIX\_M02

60 : 12F

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B

OTG\_TARE\_SCALE\_MIX\_M02

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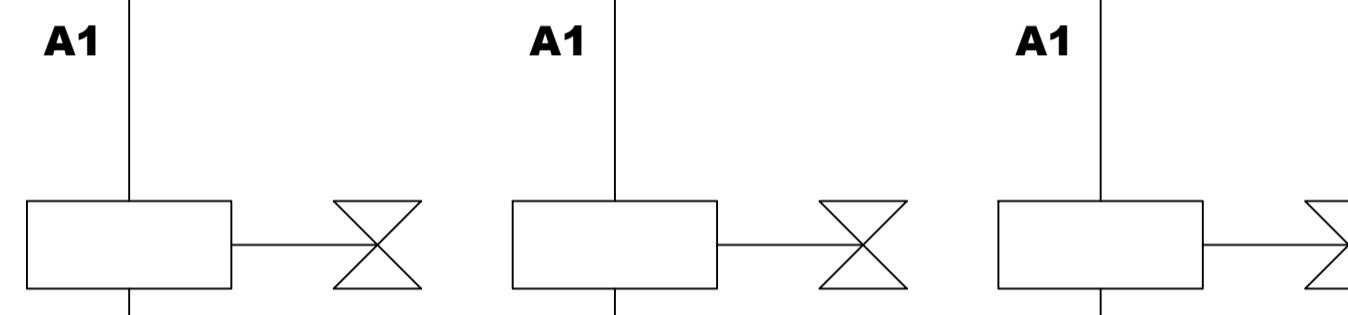
C

OTG\_ZERO\_SCALE\_MIX\_M02

OTG\_NG\_SCALE\_MIX\_M02

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A2

Tare Scale

Net Gross Scale

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118 : 6F

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COM PLC

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Rev.	Date	Remarks	Date	Drawn	Appr.	P.T. CIPTA MORTAR UTAMA	Title	Project	
4	21-05-2025			RAFLI			WAMGROUP MU mortar utama SAINT-GOBAIN	Non Sanded Batching	+
							Group OTG_SCALE_MIX_M02 Digital Output 3		Sheet No.117
			Norm			Wiring Control Panel			121 Sheet

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1 2 3 4 5 6 7 8 9 10 11 12

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Rev.	Date	Remarks	Date	Drawn	Appr.	Title	Project	
4	21-05-2025		17-10-2024	RAFLI		P.T. CIPTA MORTAR UTAMA	WAMGROUP	+
						MU mortar utama SAINT-GOBAIN	Power Supply	Address Tile Grouting, Pro-X Batching, Non Sanded Batching
			Norm			Wiring Control Panel		Sheet No.118
								121 Sheet

2 3 4 5 6 7 8 9 10 11 12

1 2 3 4 5 6 7 8 9 10 11 12

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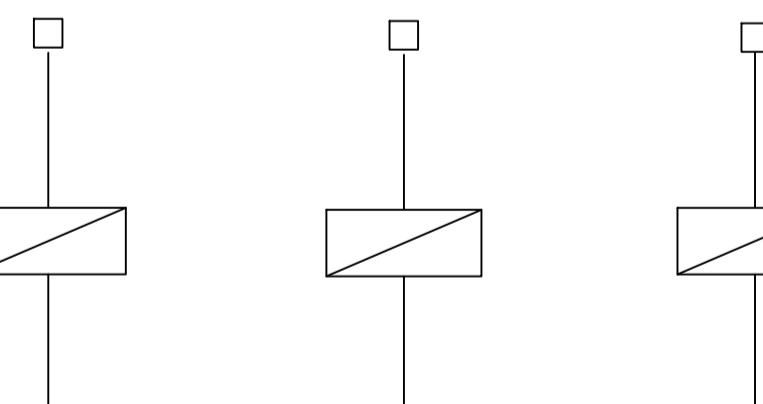
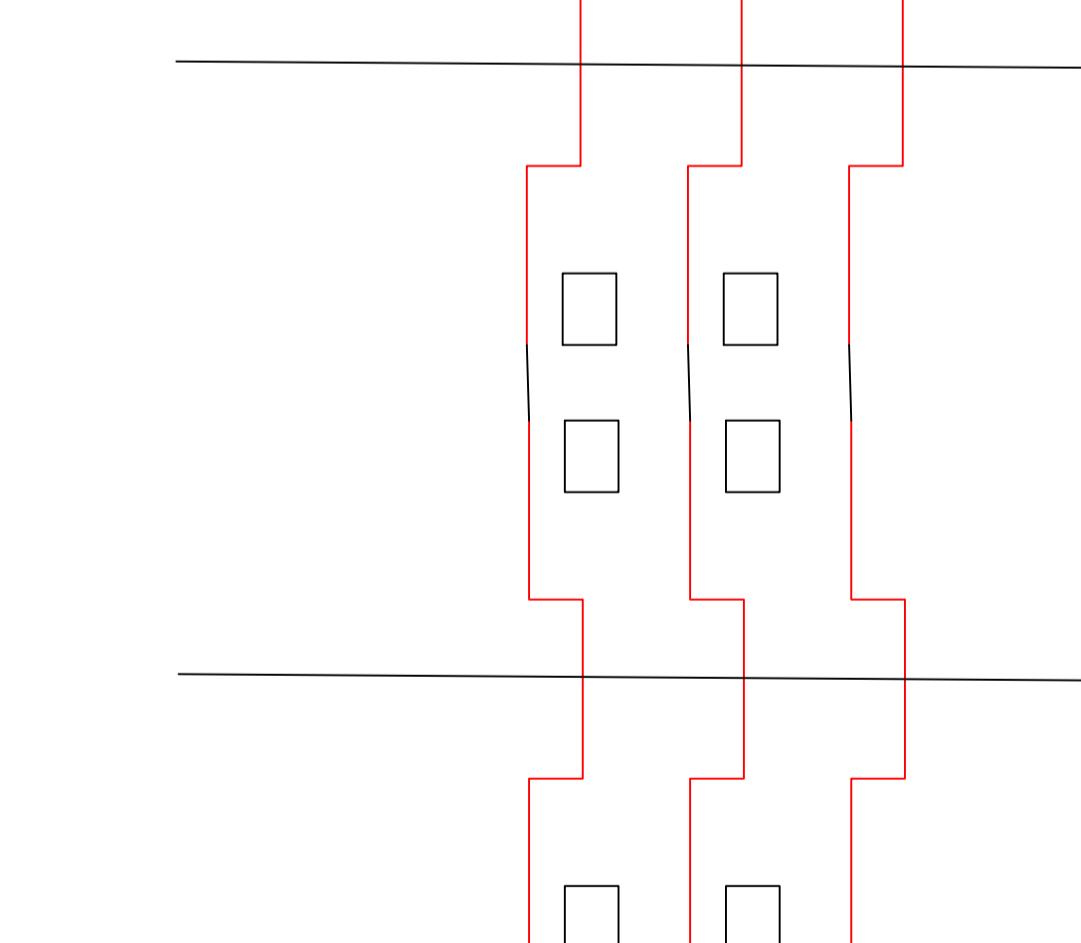
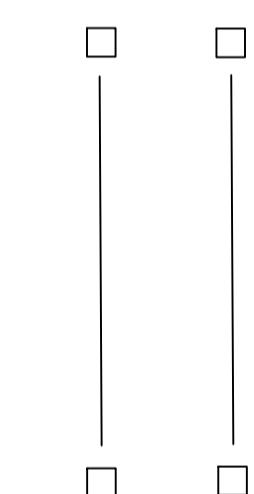
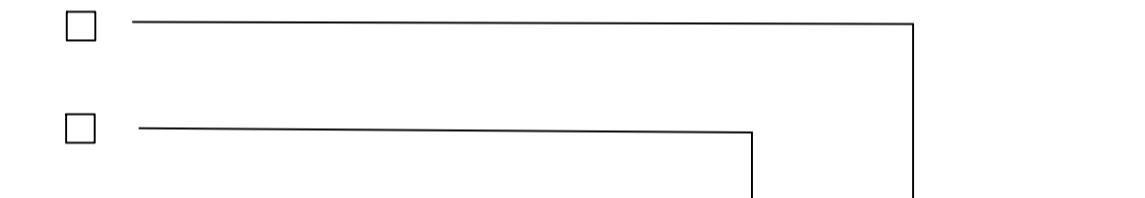
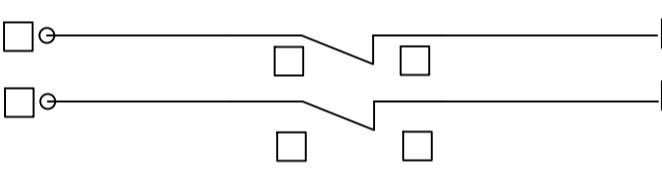
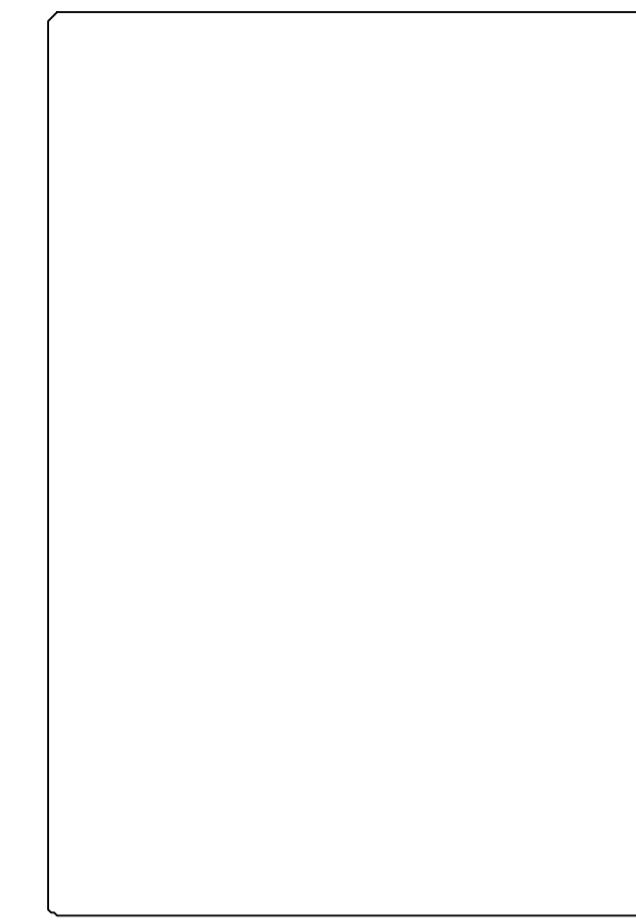
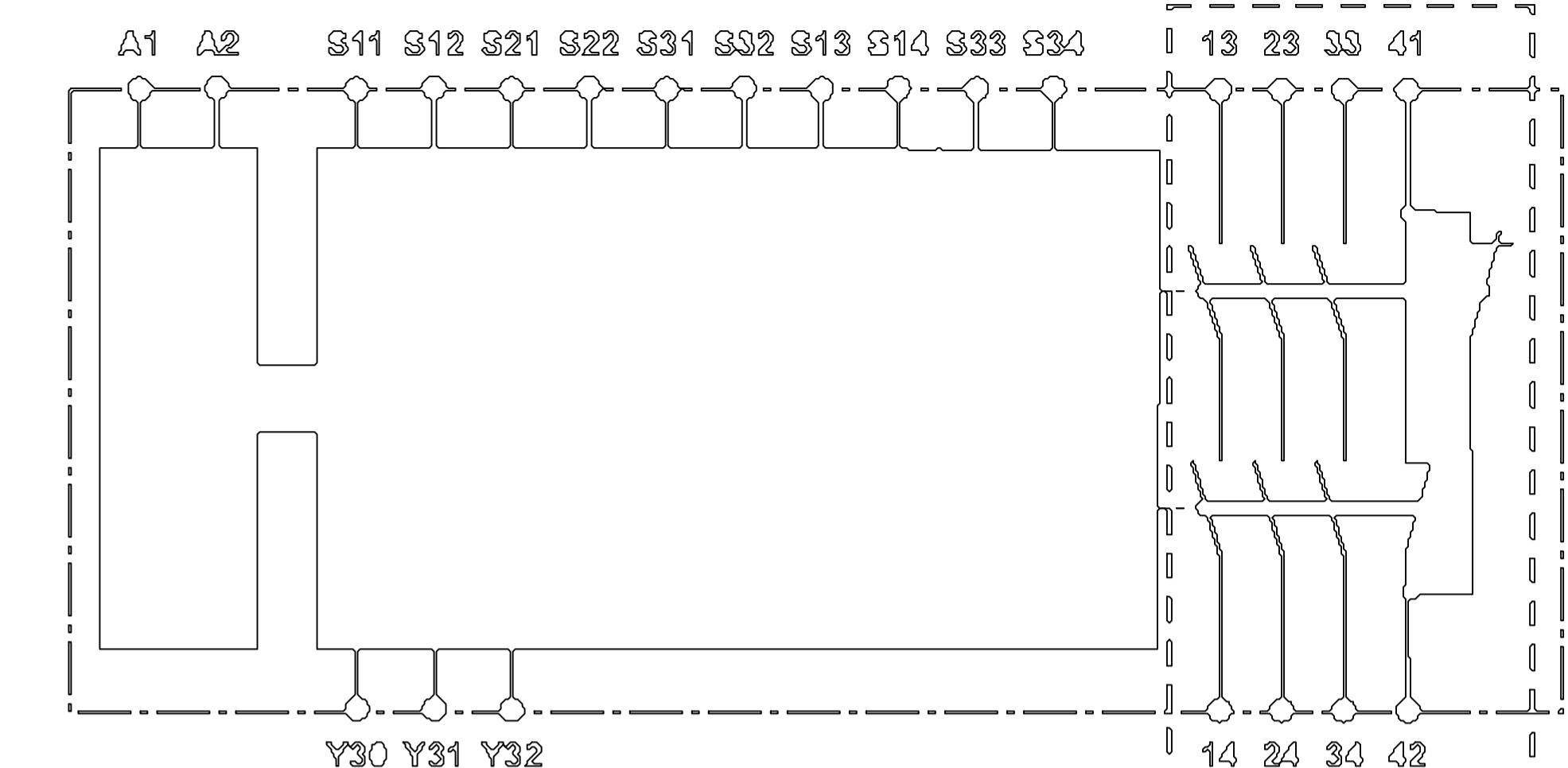
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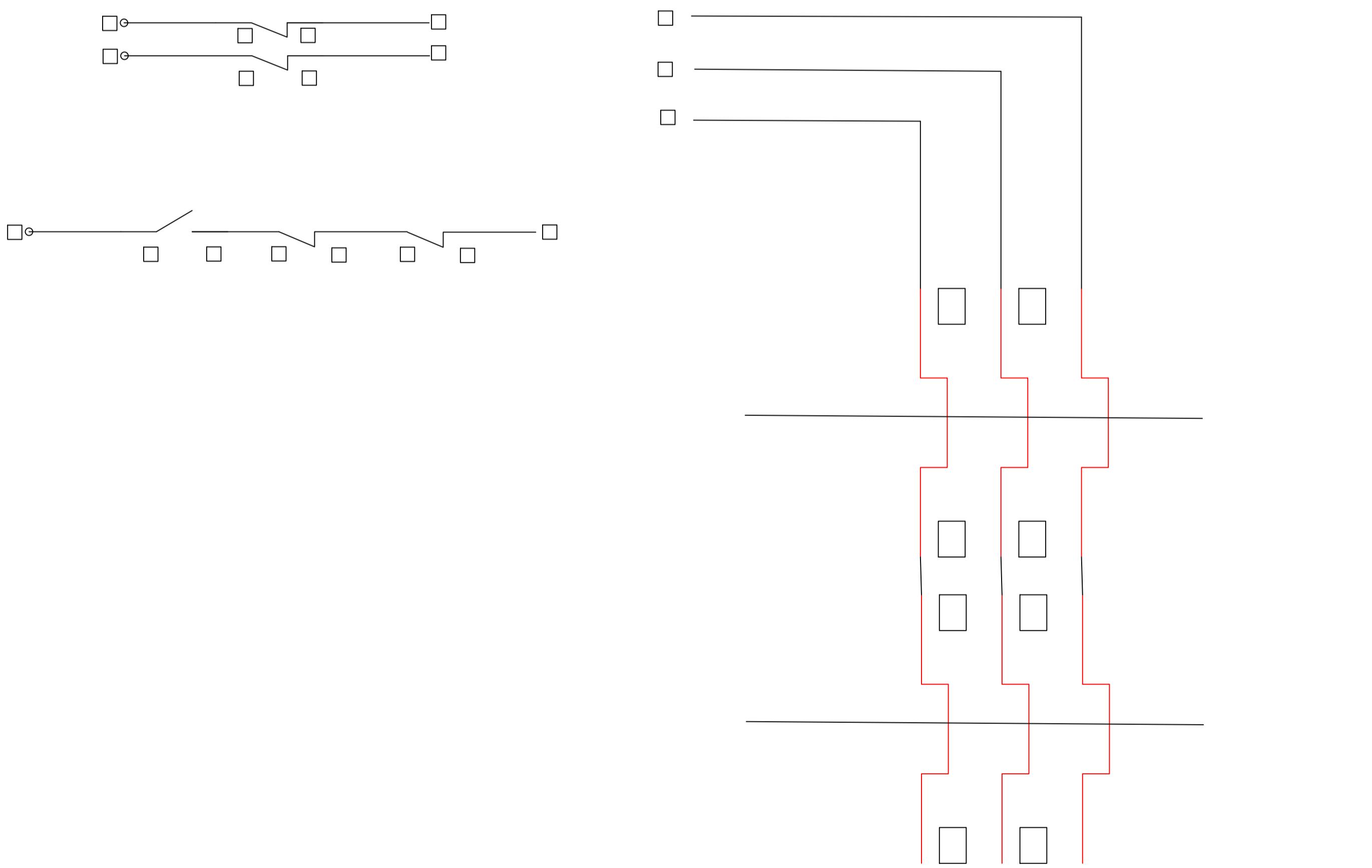
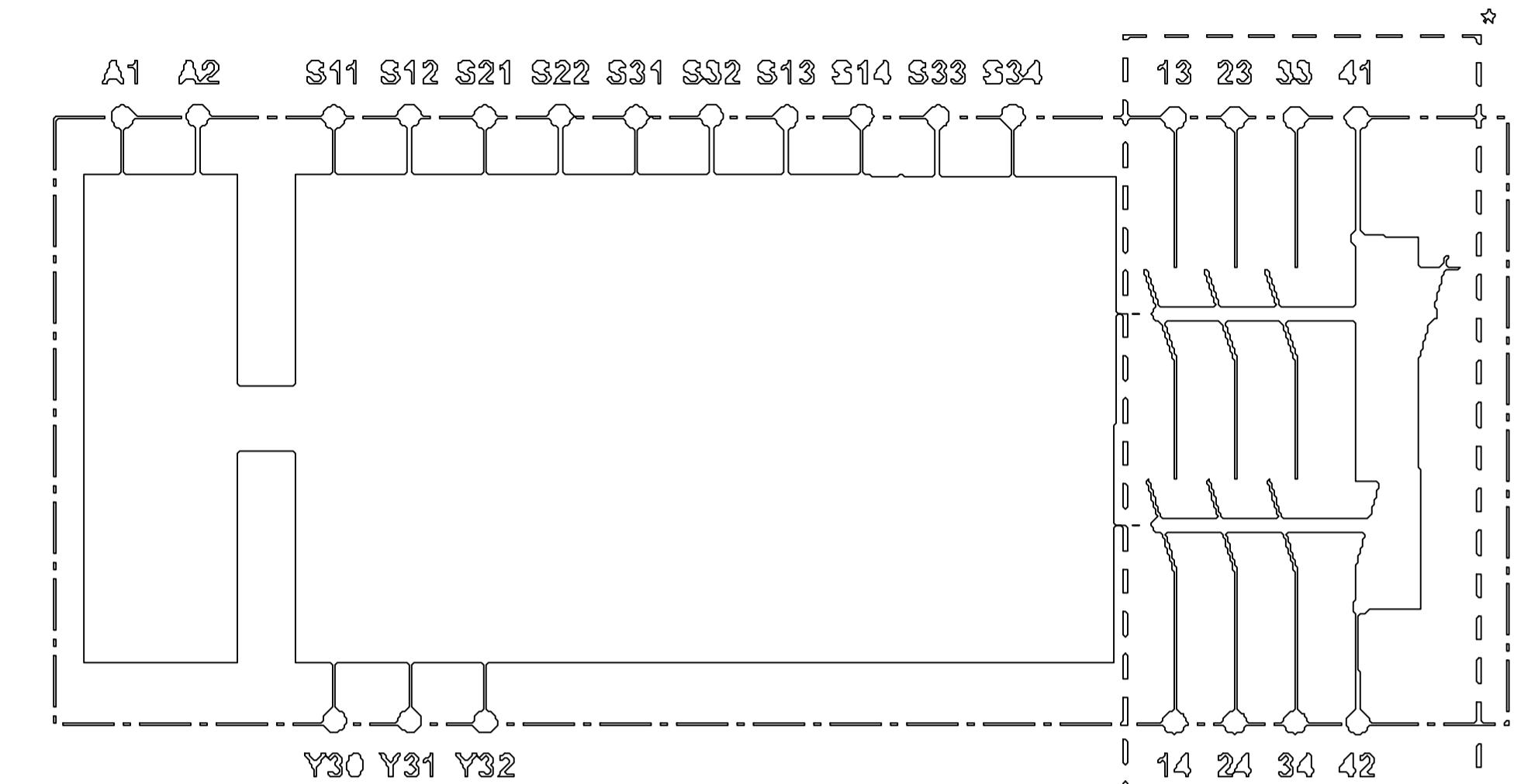
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Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA Wiring Control Panel	MU mortar SAINT-GOBAIN	Title <b>SAFETY RELAY PNOZ X3P</b>	Project WIRING SAFETY RELAY PLANT 1	H
4	21-05-2025		Drawn	RAFLI					
			Appr.						
			Norm						+ Sheet No.119 121 Sheet

2 3 4 5 6 7 8 9 10 11 12



1 2 3 4 5 6 7 8 9 10 11 12

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Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA Appr.	WAMGROUP SAINT-GOBAIN	Title	Project WIRING SAFETY RELAY PLANT 3	
4	21-05-2025			RAFLI					+
									Sheet No.121
									121 Sheet

Wiring Control Panel

2 3 4 5 6 7 8 9 10 11 12

