



CÔNG TY CỔ PHẦN RTC TECHNOLOGY VIỆT NAM

Địa chỉ: Tầng 5 tòa nhà Bảo Ngọc - Lô2A CN8 - Cụm CN Từ Liêm - Phường Phương Canh - Quận Nam Từ Liêm - HN

Điện thoại: 04.66.51.66.62 Website: <http://rtc.edu.vn> - Email: admin@rtc.edu.vn

BẢN VẼ ĐẦU NỐI ĐIỆN

Tên sản phẩm	AGV_LGCNS
Mã sản phẩm	

RTC -2020

Tổng số trang : 37

Rev/No	Revise Note	Date	Design by	Checked by	Approved by	Project name:	Code:
△						AGV_LGCNS	
△						Drawing: TITLE PAGE	Page No: 1
△			Trình Như Chuyên	Bùi Mạnh Cần	Bùi Mạnh Cần	Date 11:44:55 AM	Total page: 37



Project: AGV_LGCNS

PART LIST

NO	ITEM	SYMBOL	PART NUMBER	SPECIFICATION	QTY	MAKER
1	COMPUTER	CPU	NUCBOX10I3	PROGRAM	1	INTEL
2	2D LIDAR SENSOR	NAV	NAV350	NAGIVATION	1	SICK
3	2D LIDAR SENSOR	LD	TI1M320	SAFETY	2	SICK
4	PLC CONTROLLER	PLC	FX5UC-32MT/D	PROGRAM	1	mitsubishi
5	INPUT/OUTPUT MODULE	IO	FX5C-32MT/D	I/O MODULE EXPANTION	3	mitsubishi
6	INPUT/OUTPUT MODULE	IO	FX5C-16EYT/D	I/O MODULE EXPANTION	1	mitsubishi
7	APTOMAT	MCB	NF125-CV 2P 100A	POWER APTOMAT	2	mitsubishi
8	APTOMAT	MCB	BH-D6 2P 16A	220VAC APTOMAT	1	mitsubishi
9	APTOMAT	MCB	BH-D6 2P 50A	DEVICE ELECTRIC APTOMAT	2	mitsubishi
10	DIODE	D	ZP200A	DIODE CHARGER	2	NO
11	EMC BUTTON	EMC	YW1B-V4E03R	EMC BUTTON	6	IDEC
12	PUSHBUTTON	PB	YW1B-M1E10S	STOP BUTTON	2	IDEC
13	PUSHBUTTON	PB	YW1B-M1E10G	START BUTTON	2	IDEC
14	USB TO COM	U2COM	USB-RS485-WE	SERIAL TO RS485	2	FTDI
15	HMI	HMI	GS2107-WTBD	HMI	2	mitsubishi
16	USB HUB	USB_H		EXPANTION USB	1	ORICO
17	LAN HUB	LAN_H	EDS 208A	EXPANTION ETHERNET	1	MOXA
18	POWER SUPPLY MODULE	PW	SD-1000L-24	48VDC TO 24VDC	1	MEANWELL
19	POWER SUPPLY MODULE	INV	TS-1500-2488	DC-AC CONVERTER	1	MEANWELL
20	SPEAKER MODULE	SPK	WS-24AF	VOID NOTIFICATION	1	AZOWIE
21	SIGNAL LIGHT	L	HY-TWBN-24-3	LIGHT NOTIFICATION	2	HANYOUNG
22	PIO SENSOR	PIO	FP801S20N	TRANSMIT OPTICAL DATA	1	TOYO
23	BATTERY	BAT	48V150AH	POWER SUPPLY	1	NO
24	WIRELESS CLIENT	WL	AWK-1137C-EU	WIFI	1	MOXA
25	PHOTOELECTRIC SENSOR	SS	CX-491	CONVEYOR SENSOR	2	OMRON
26	PHOTOELECTRIC SENSOR	SS	CX-491	ALIGN SENSOR	4	OMRON
27	LIGHT CURTAIN SENSOR	LCS	SF4B-H72C	SAFETY SENSOR	2	PANASONIC
28	TRACTION MOTOR	TM	PLT-150P400SM-24	TRACTION	2	PLUTOOLS
29	TRACTION MOTOR DRIVER	TMD	II10.20 CX	TRACTION MOTOR CONTROLLER	4	PLUTOOLS

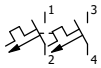
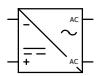
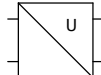

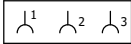






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1	CONVEYOR MOTOR	CM	K10KH0202G/K10H08BU	CONVEYOR	1	GGM
2	CONVEYOR MOTOR DRIVER	CMD	GLX-9-200	COVEYOR MOTOR CONTROLLER	1	GGM
3	SERVO MOTOR	SM	HG-JR103B	ELEVATE	1	mitsubishi
4	SERVO MOTOR DRIVER	SMD	MR-J4-100A	SERVO MOTOR CONTROLLER	1	mitsubishi
5	SERVO MOTOR CABLE	SMC	MR-J3CN1	CABLE	1	mitsubishi
6	SERVO MOTOR CABLE	SMC	MR-J3ENSCL5M-L	CABLE	1	mitsubishi
7	SERVO MOTOR CABLE	SMC	MR-PWCN54-5M	CABLE	1	mitsubishi
8	SERVO MOTOR CABLE	SMC	MR-BKCN51-5M	CABLE	1	mitsubishi
9	ACTUATOR	ATT	XTL100	STOPPER	2	NO
10	ACTUATOR	ATT	XTL100	CHARGER	2	NO
11	ACTUATOR	ATT	DTL50	ALIGN	2	NO
12	POMIXITY SENSOR	SS	E2B-508KN04-WP	ACTUATOR LIMIT	12	OMRON
13	INVETER	INV	48VDCTO220VAC	CONVERT 48VDC TO 220VAC	1	NO
14	RELAY	RL	MY4N	NO	6	OMRON
15	RELAY SOCKET	RL	PYF14A	NO	6	OMRON
16	RELAY BLOCK	RL	R4T-16P-S	NO	6	IOLINK
17	HEADER BRIGDE	TB	XTB-20H	NO	9	SAMWON
18	BUMPER	BP	WMN-A431 EPDM	SAFETY	2	NO
19	BUMPER	BP	WMN-A431 EPDM	SAFETY	2	NO
20	BUMPER	BP	WMN-A431 EPDM	SAFETY	2	NO
21	POMIXITY SENSOR	PMS	E2B-508KN04-WP	SET ORGIN	5	OMRON
22	SAFETY RELAY	SR	G7SA-4A2B	SAFETY RELAY	8	OMRON
23	SAFETY PLC	SPLC	G9SP-N20S	SAFETY PLC	1	OMRON
24	HEADER BRIGDE	TB	MR-TB50	NO	1	mitsubishi
25						
26						
27						
28						
29						



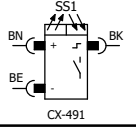
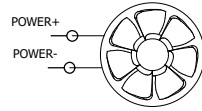
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△						Date 5:24:59 PM		Total page: 37	
△									



Project: AGV_LGCNS

SYMBOL

NO	DRAWING	SYMBOL	DESCRIPTION
1		MCB	MINIATURE CIRCUIT BREAK
2		INV	INVERTER 48VDC TO 220VAC
3		PW	POWER CONVERT
4		D	DIODE
5		FMC	FEMALE CONNECTOR
6		MC	MALE CONNECTOR
7		SS	POXIMITY SENSOR
8		PB	PUSHBUTTON
9		EMC	EMERGENCY STOP
10		K	COILD
11		NO	NORMALLY OPEN CONTACT

NO	DRAWING	SYMBOL	DESCRIPTION
12		NC	NORMALLY CLOSE CONTACT
13		ATT	ELECTRIC ACTUATOR
14		PTS	PHOTOELETRIC SENSOR
15		F	FAN
16			

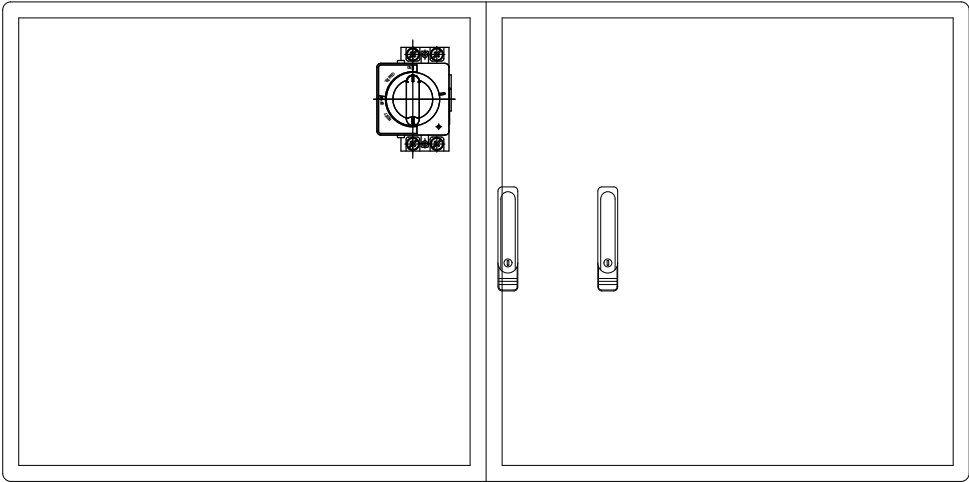
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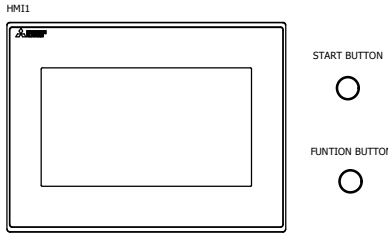
Project: AGV_LGCNS

PANEL LAYOUT

SURFACE ELECTRIC BOX



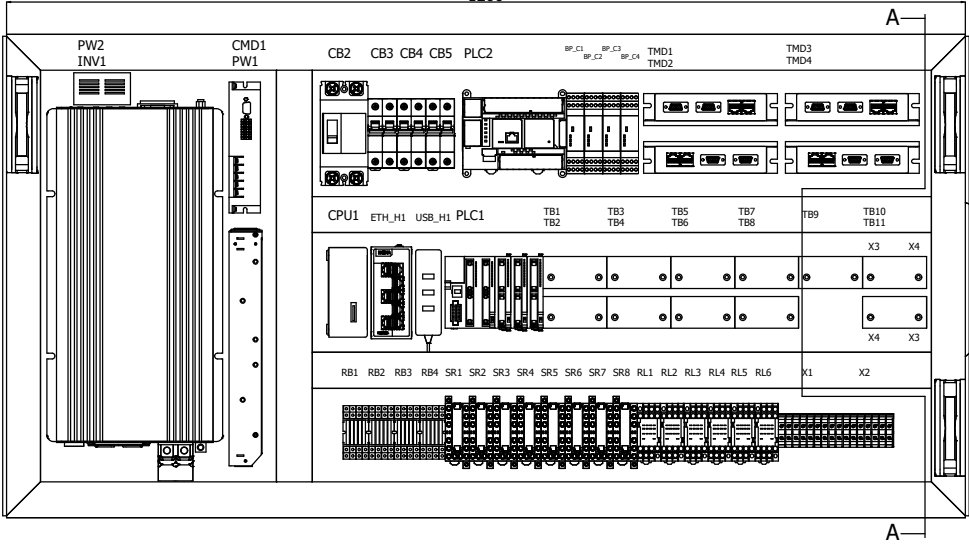
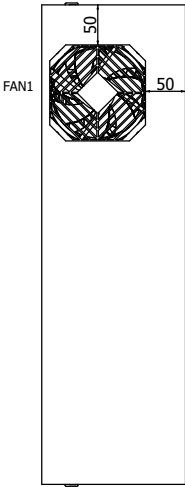
CONTROLL PANEL FORWARD



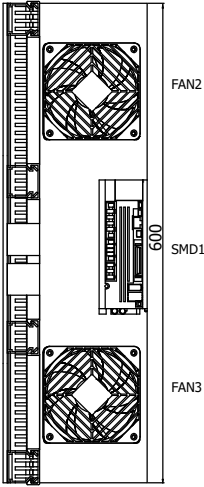
LEFT PANEL

BOTTOM PANEL

1200

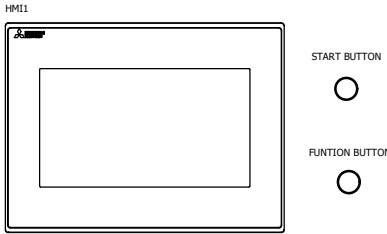


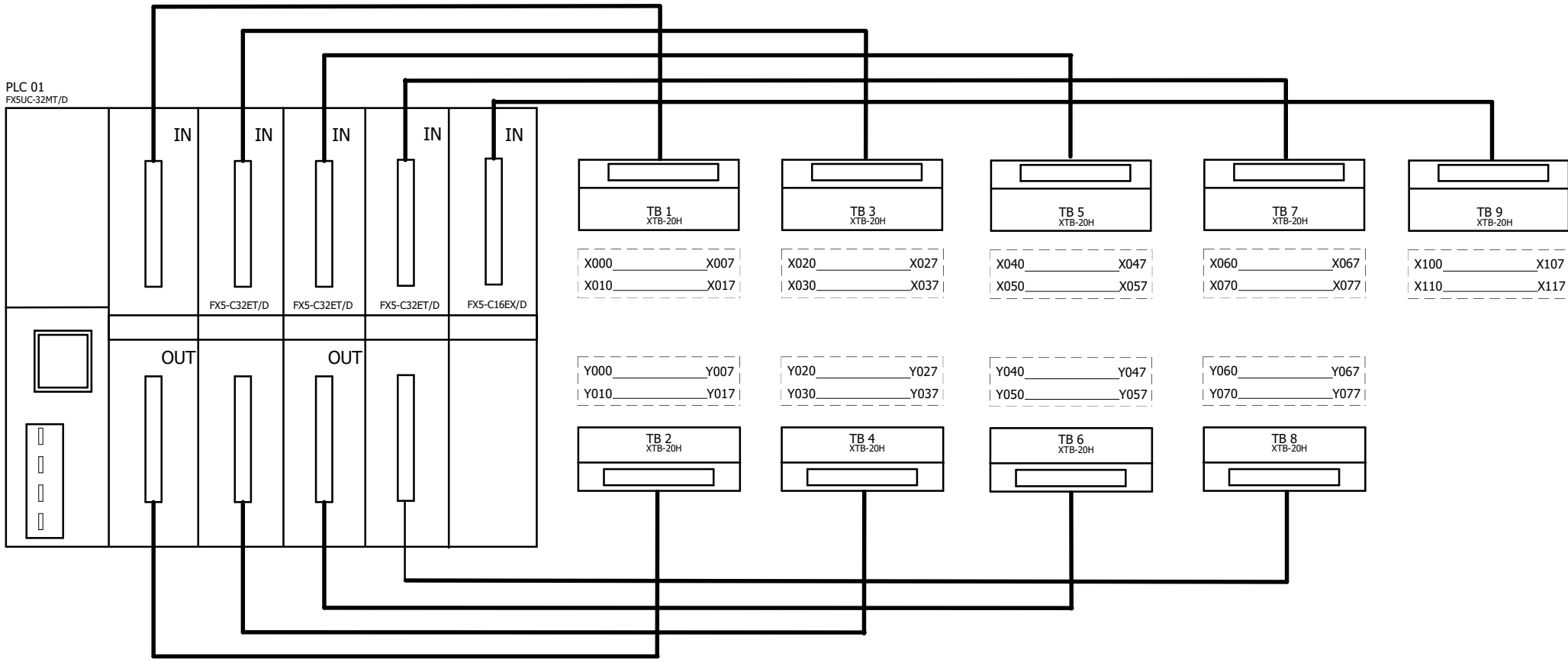
RIGHT PANEL



SECTION A-A

CONTROLL PANEL FORWARD





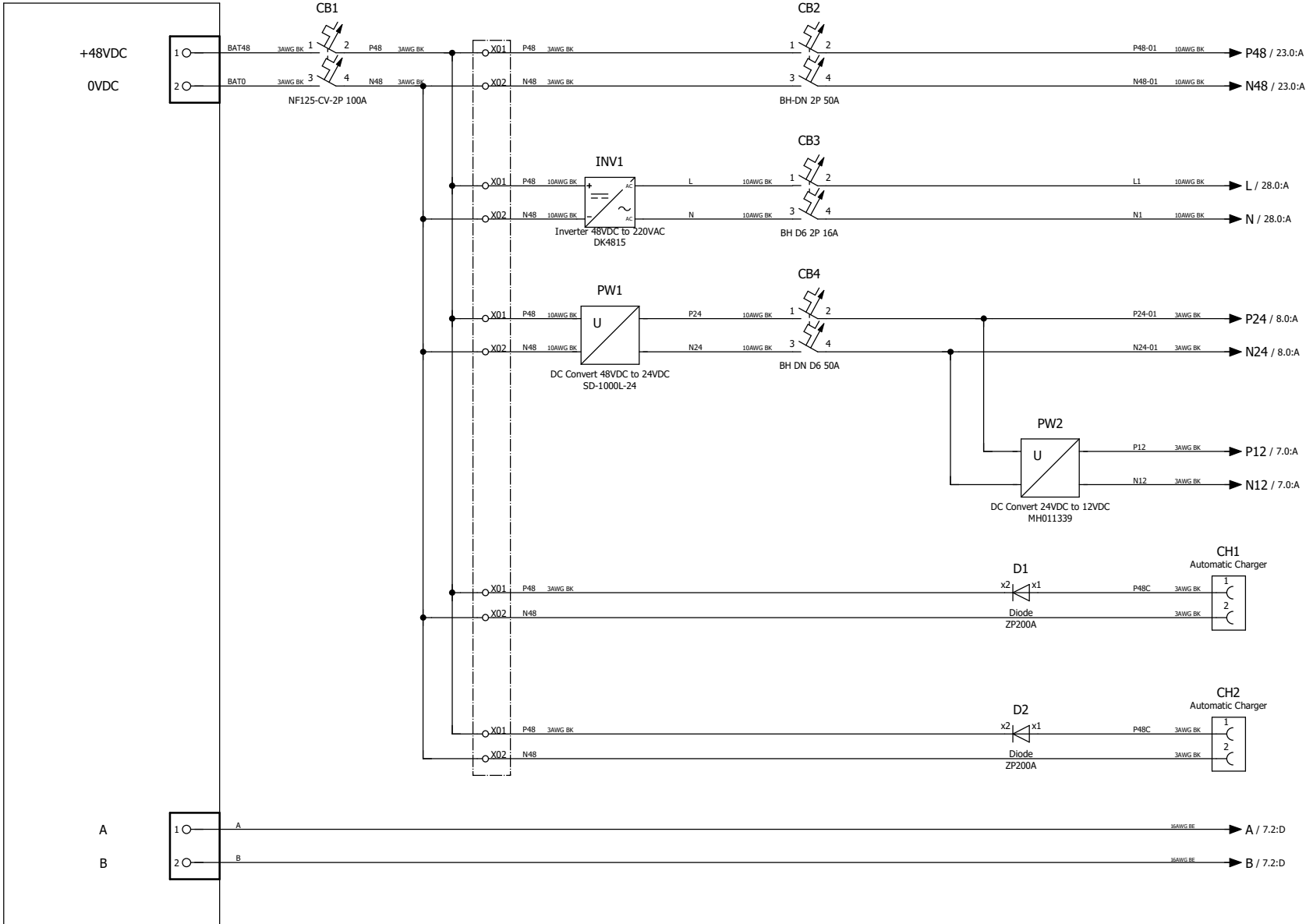
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Project: AGV_LGCNS

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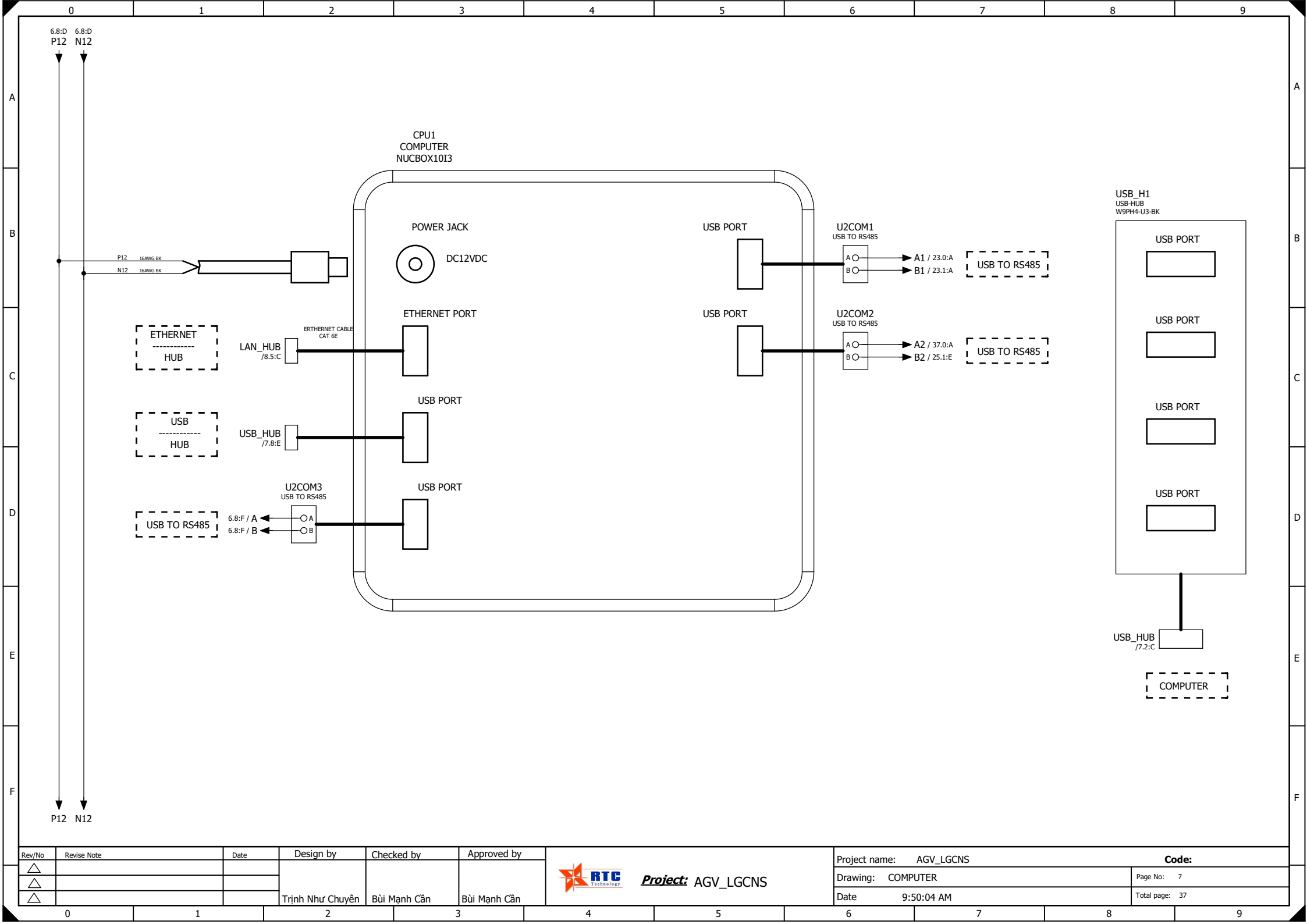
BAT1
POWER SUPPLY
48V-100AH



Rev/No	Revise Note	Date	Design by	Checked by	Approved by	Project name:	AGV_LGCNS	Code:
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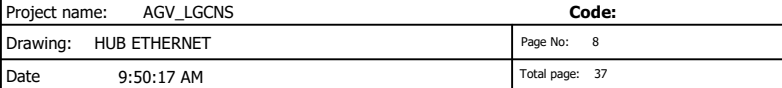


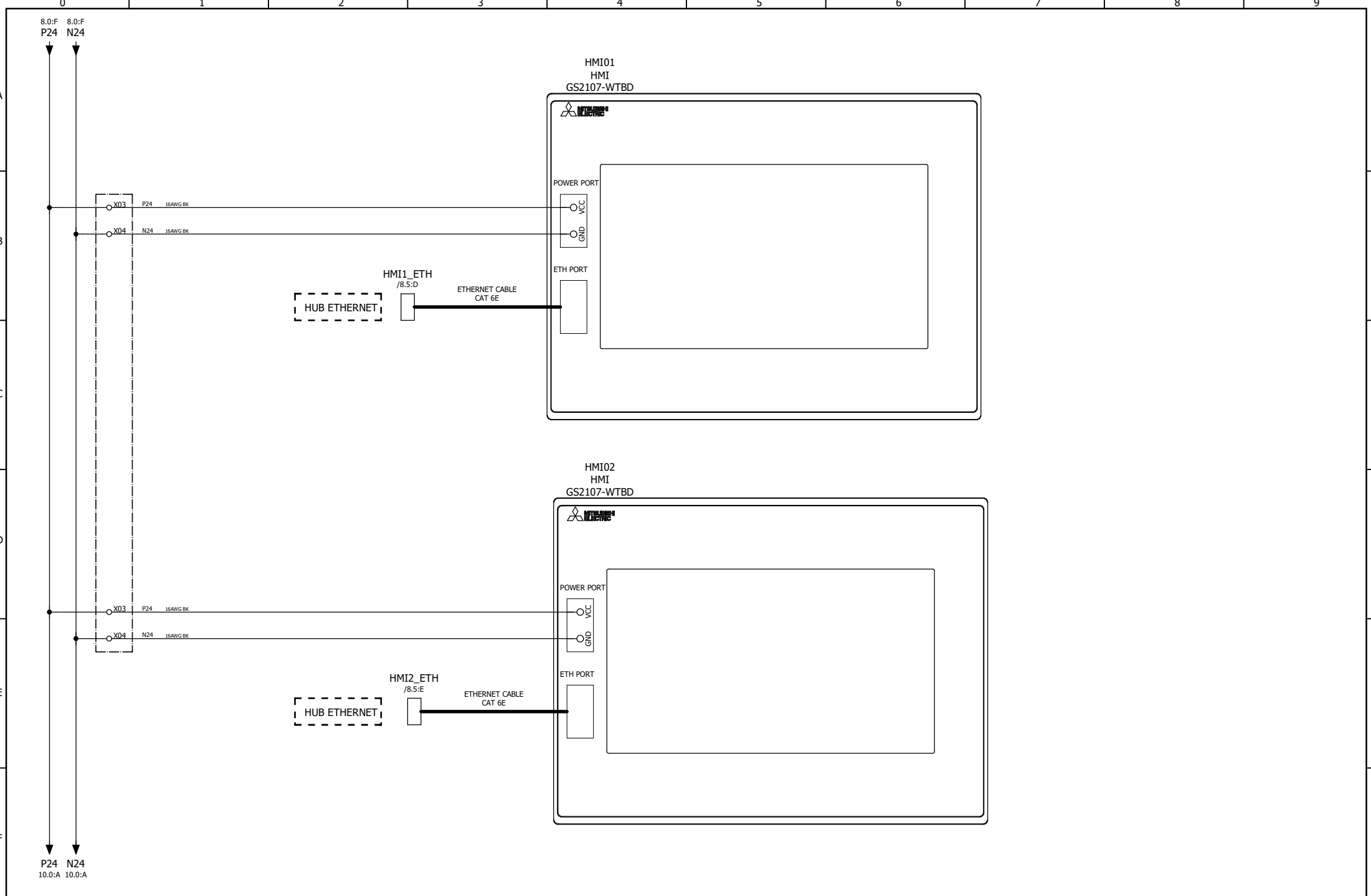
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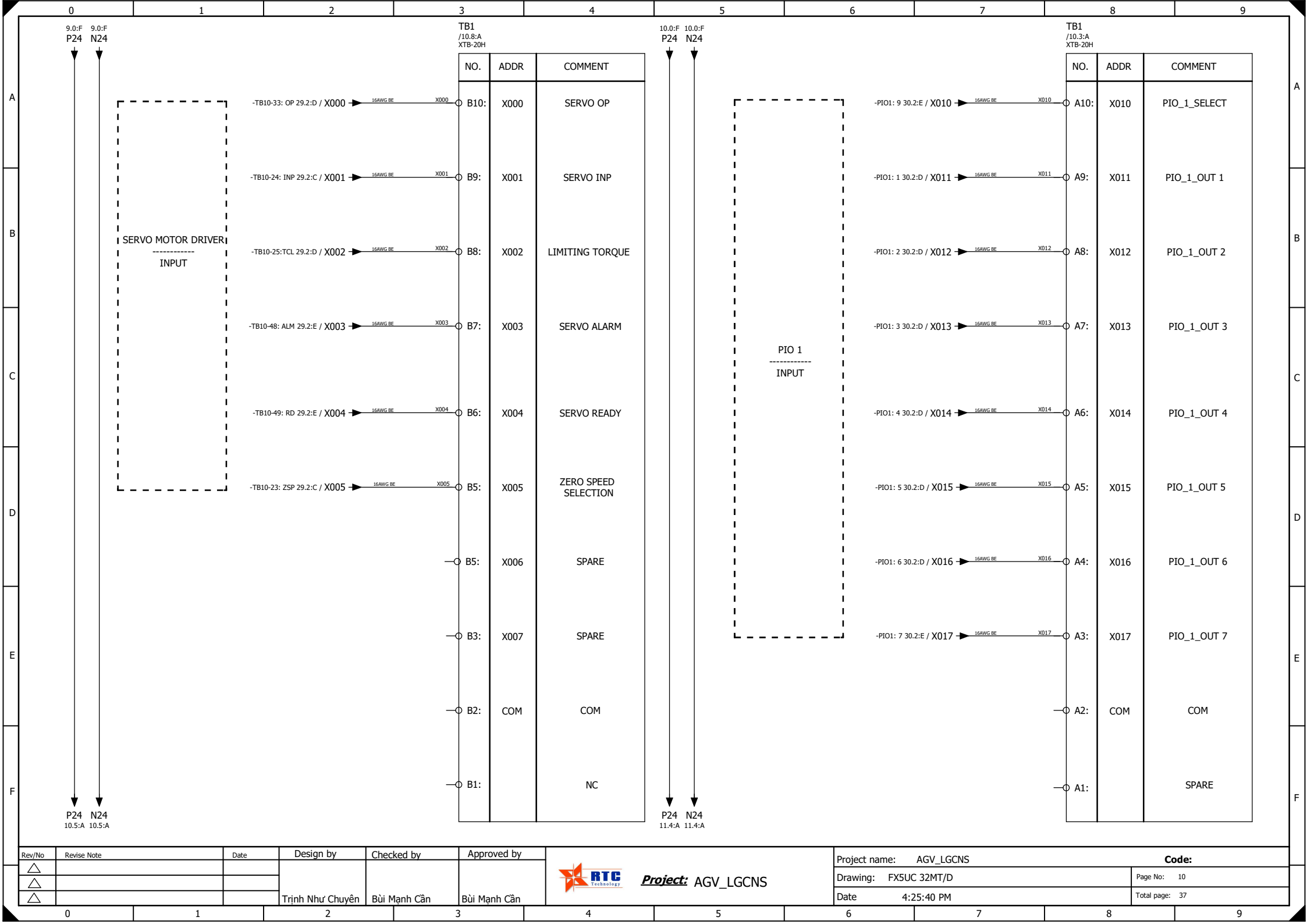
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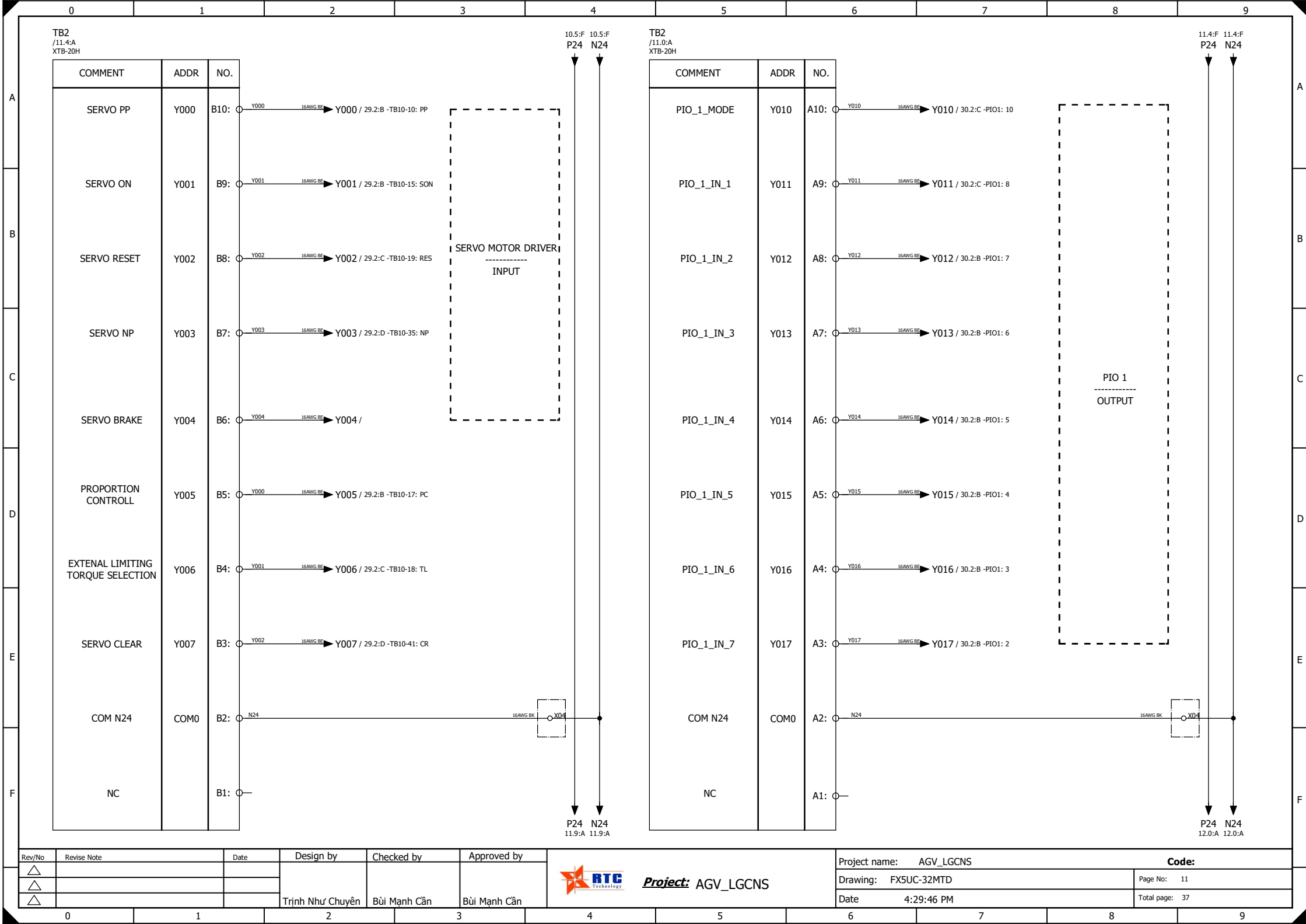
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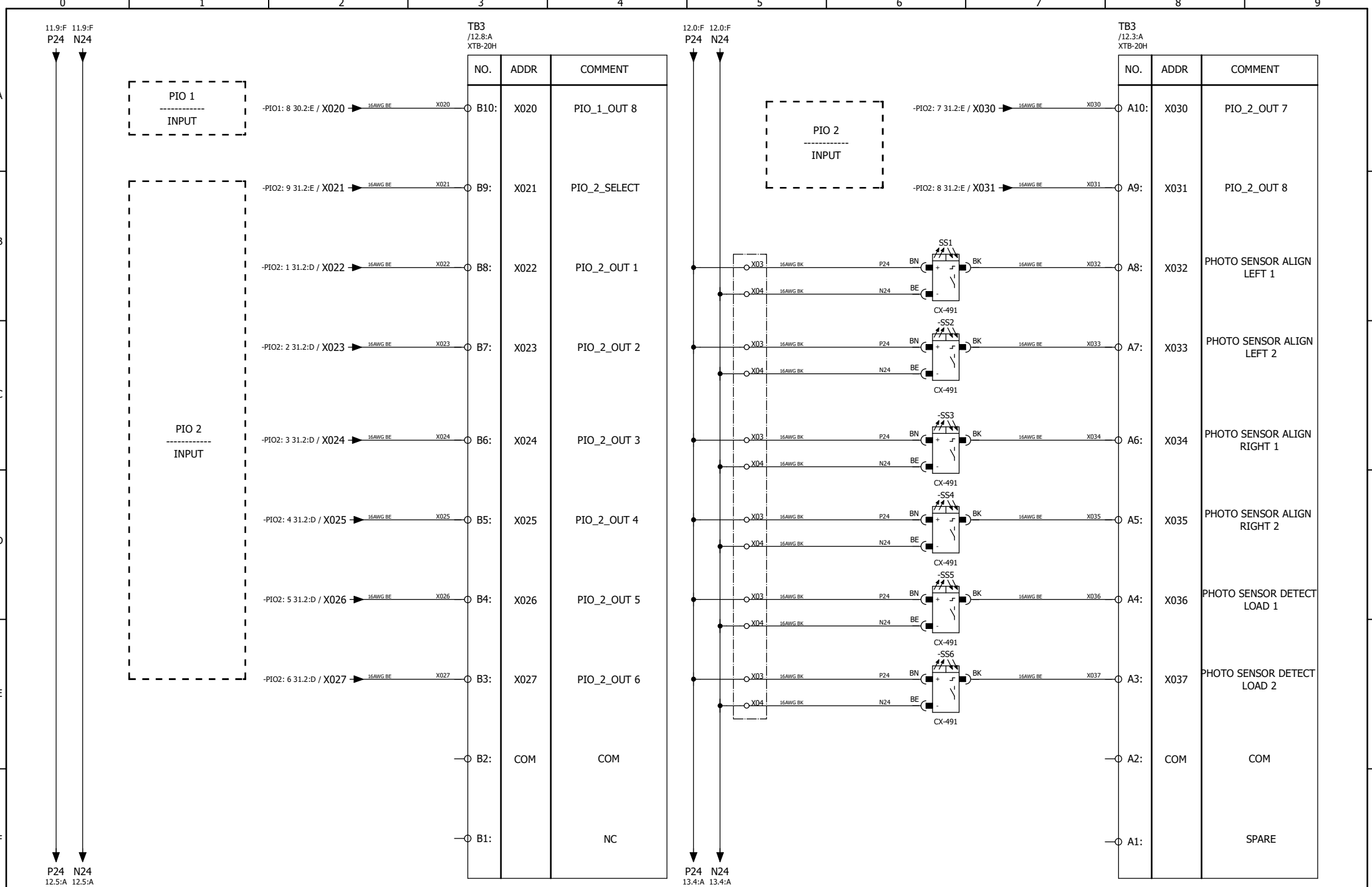


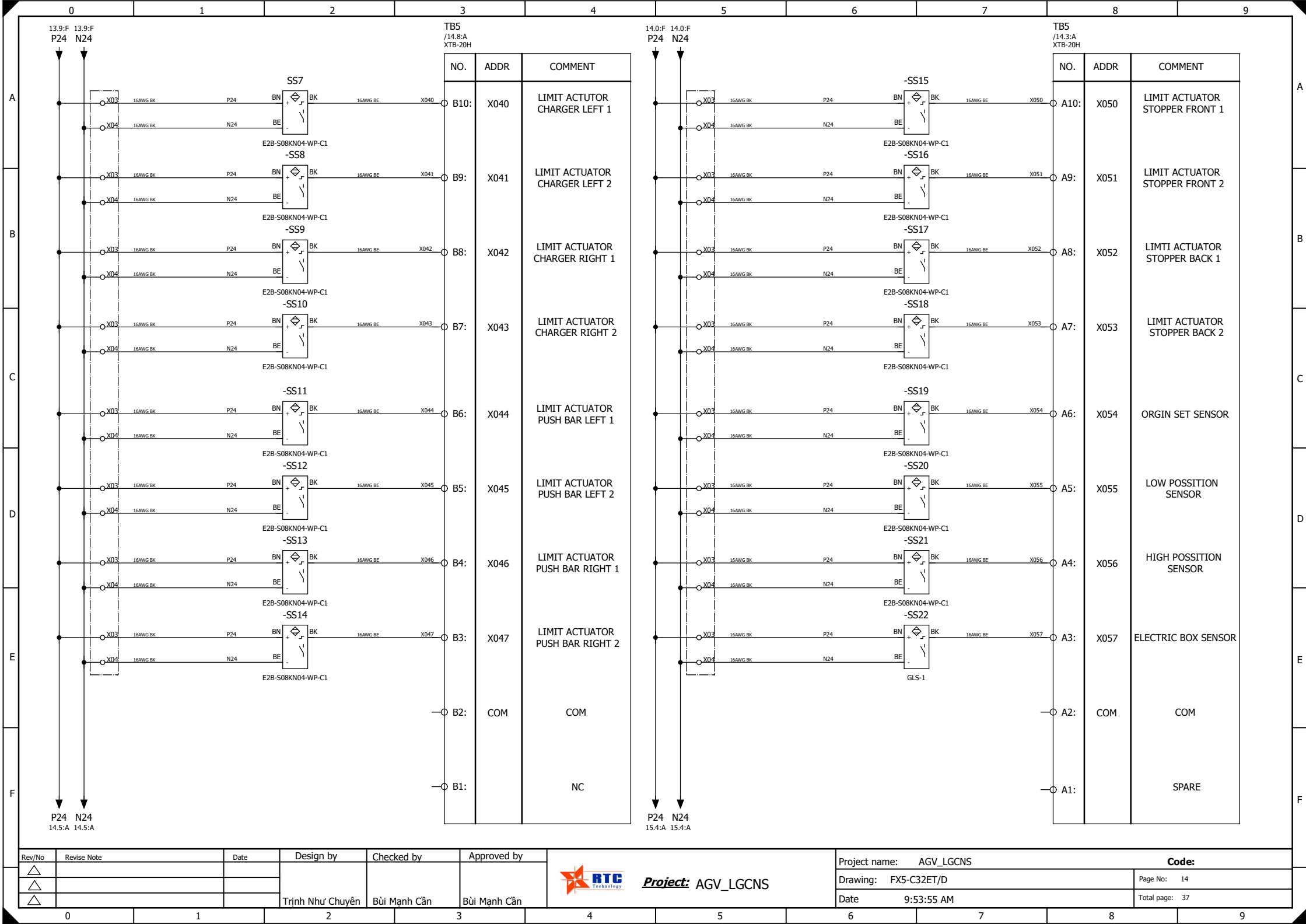


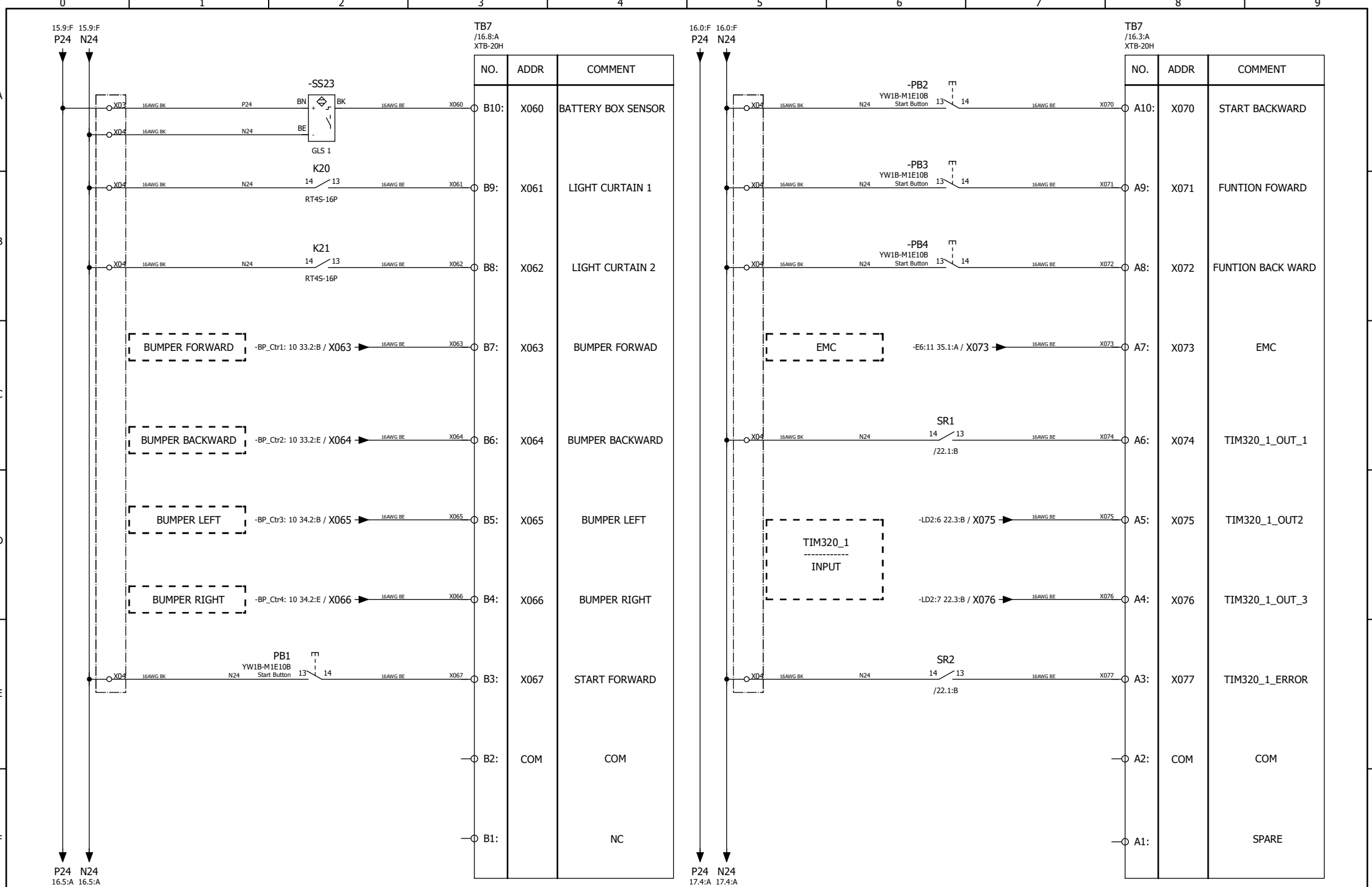
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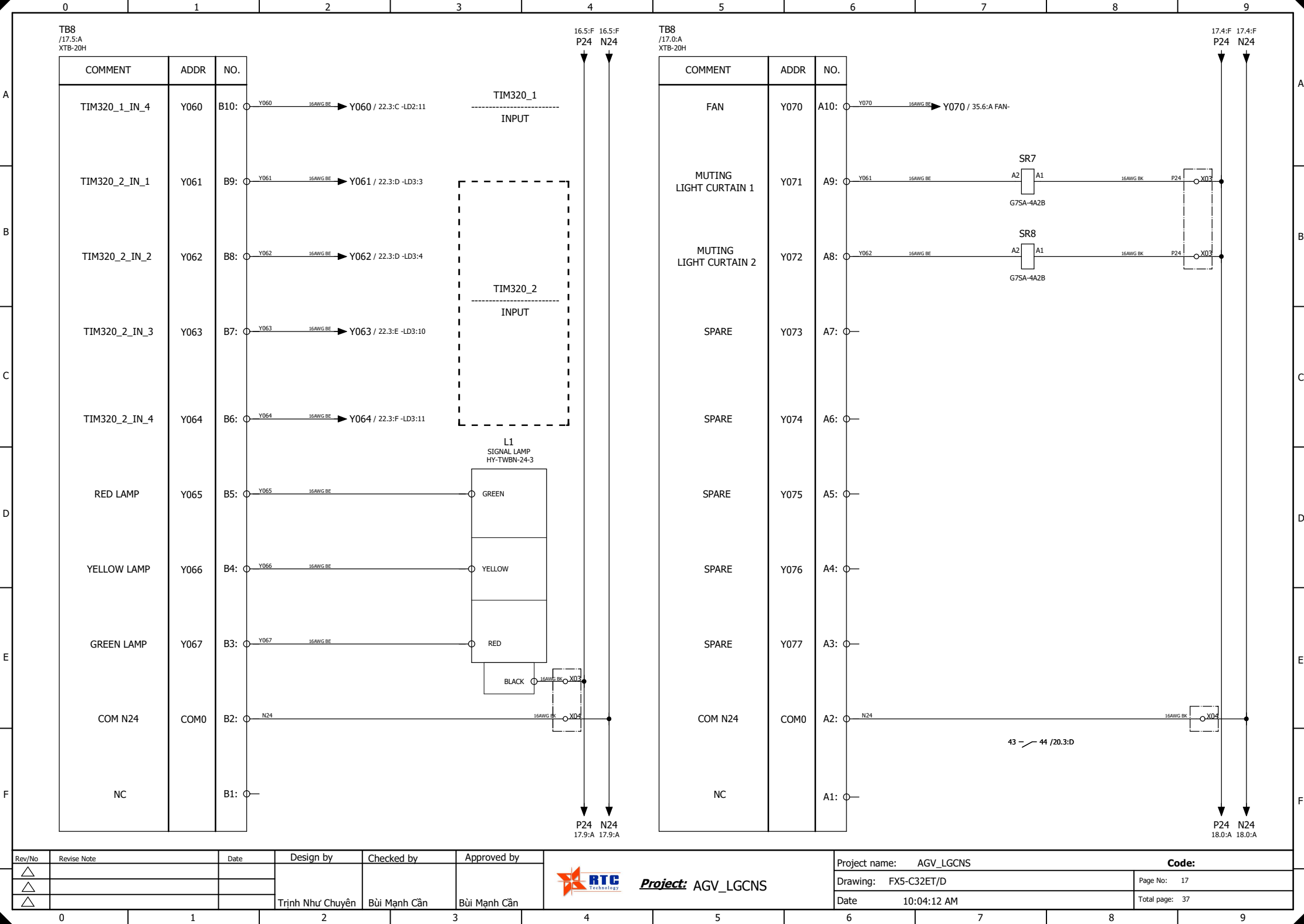


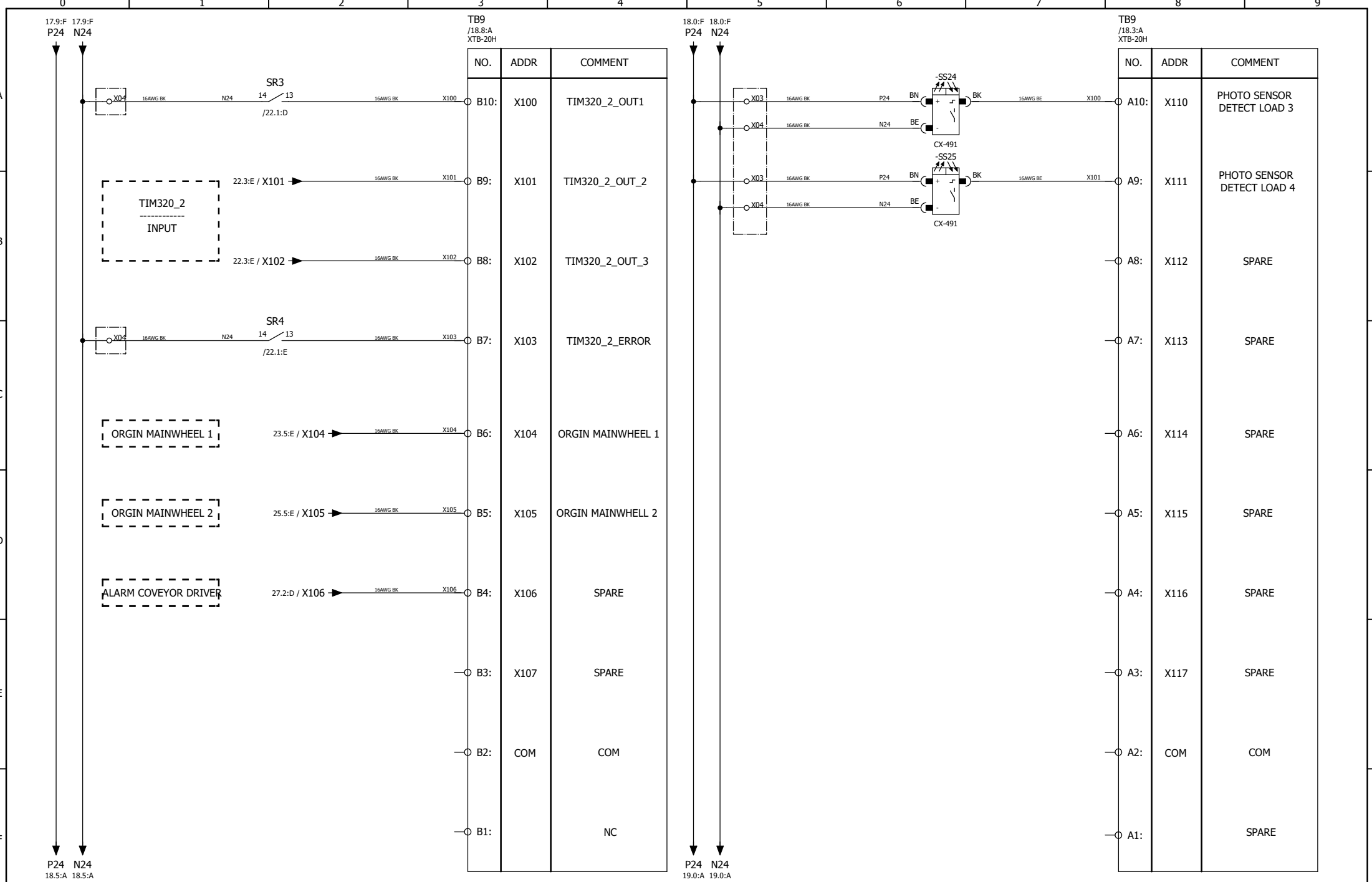


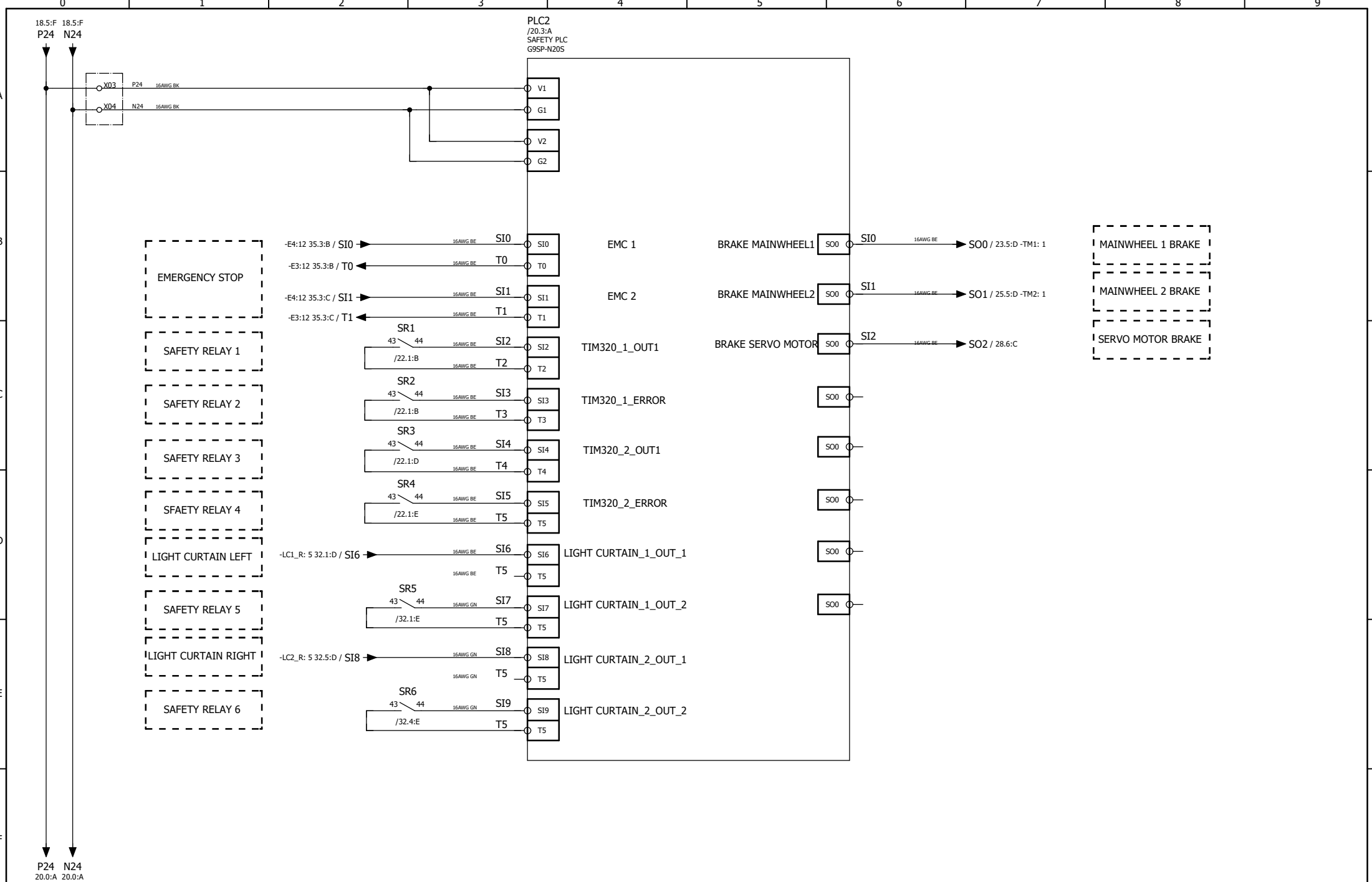
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Project: AGV_LGCNS



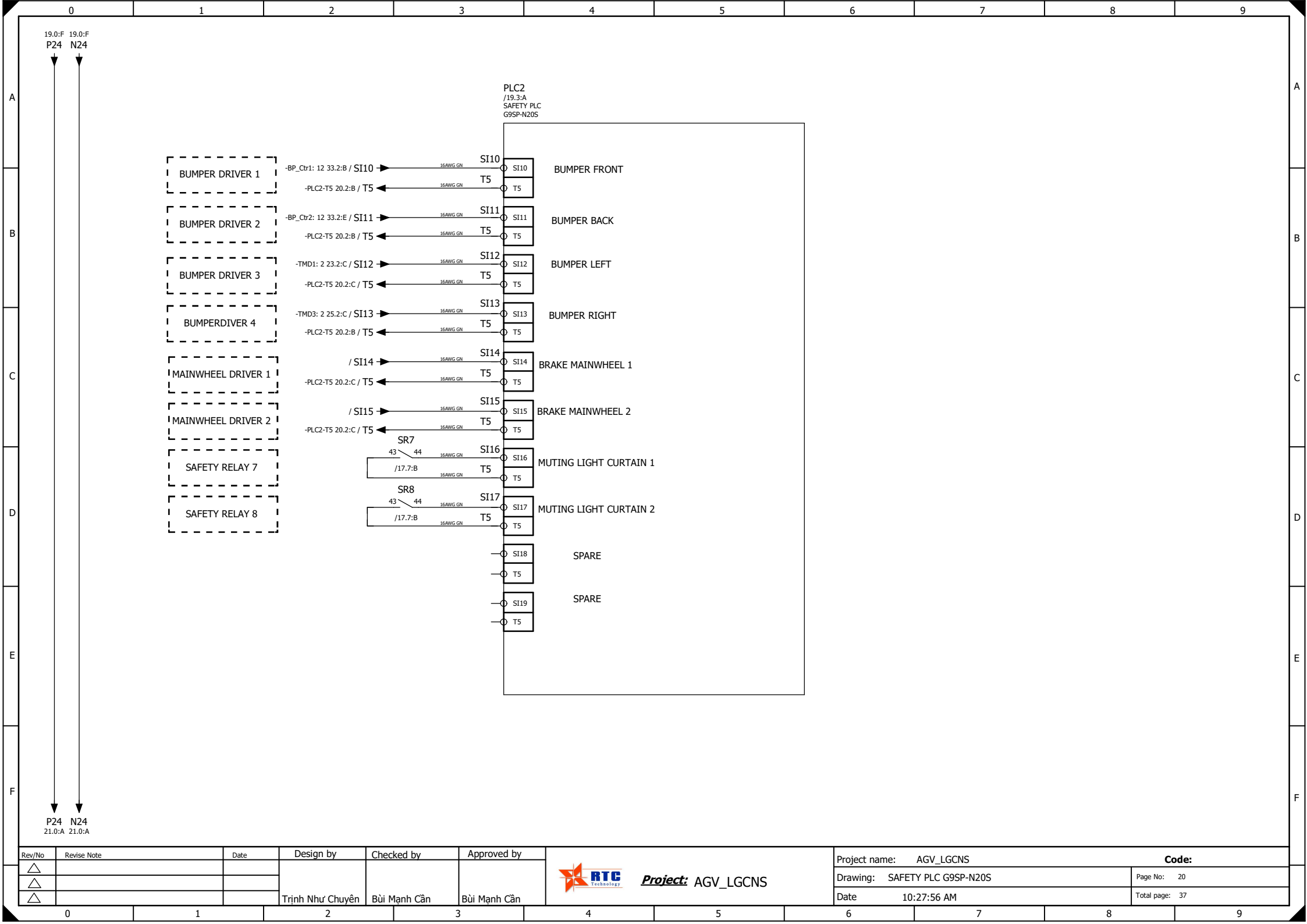


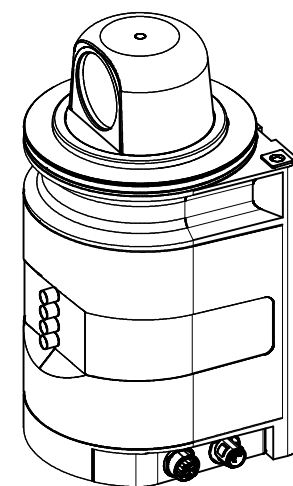
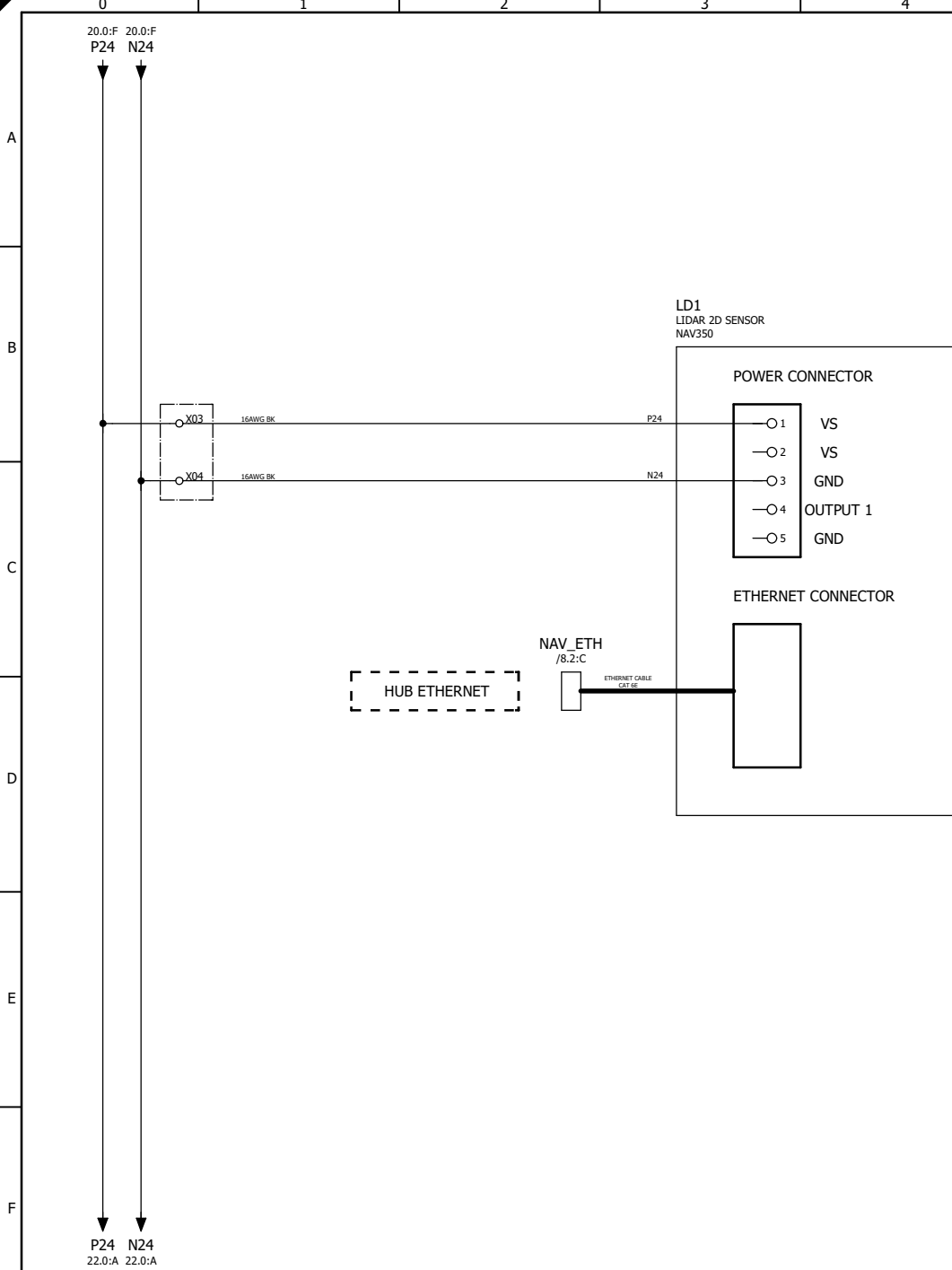


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Project: AGV_LGCNS





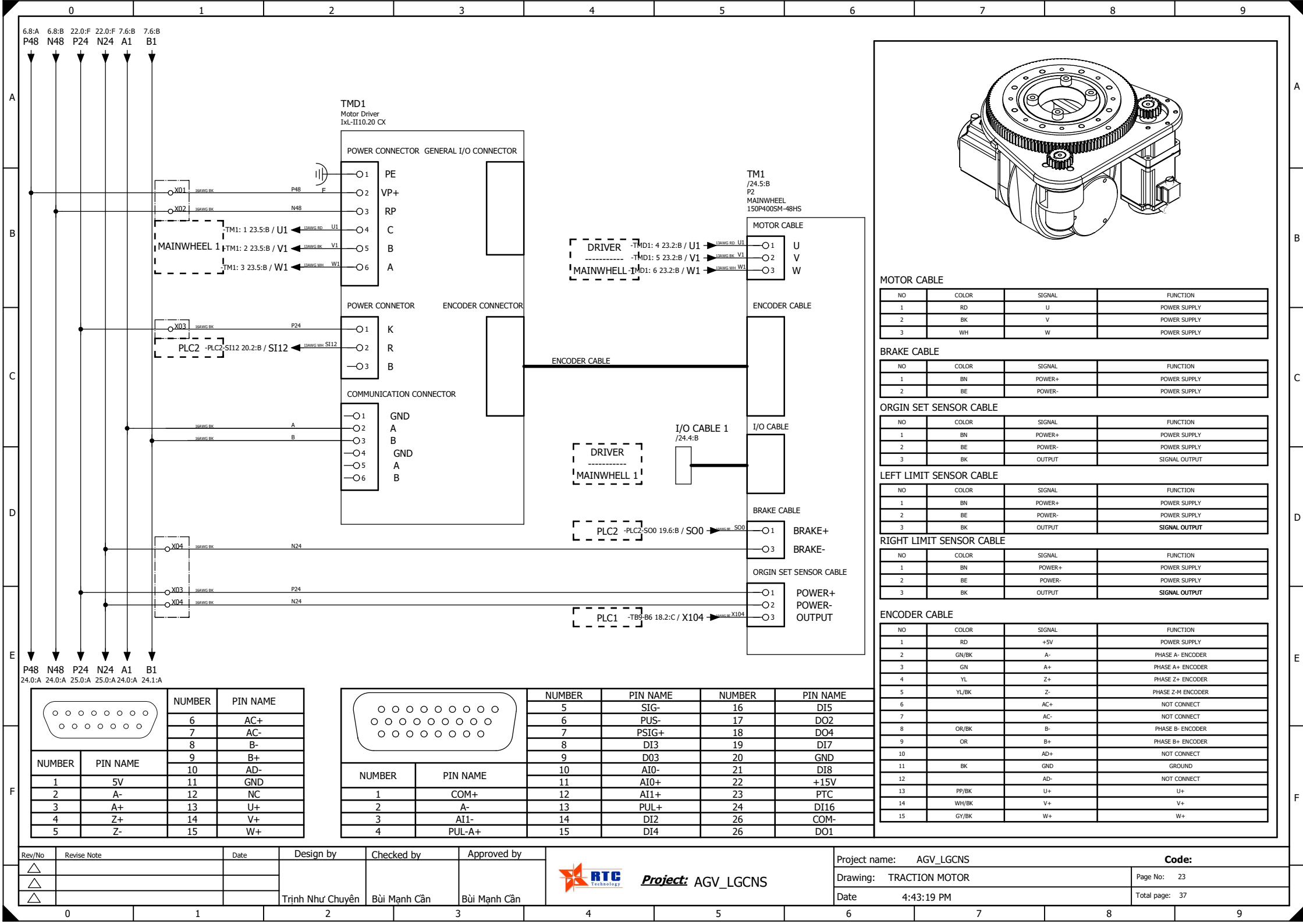
2D LIDAR SENSOR
NAV350

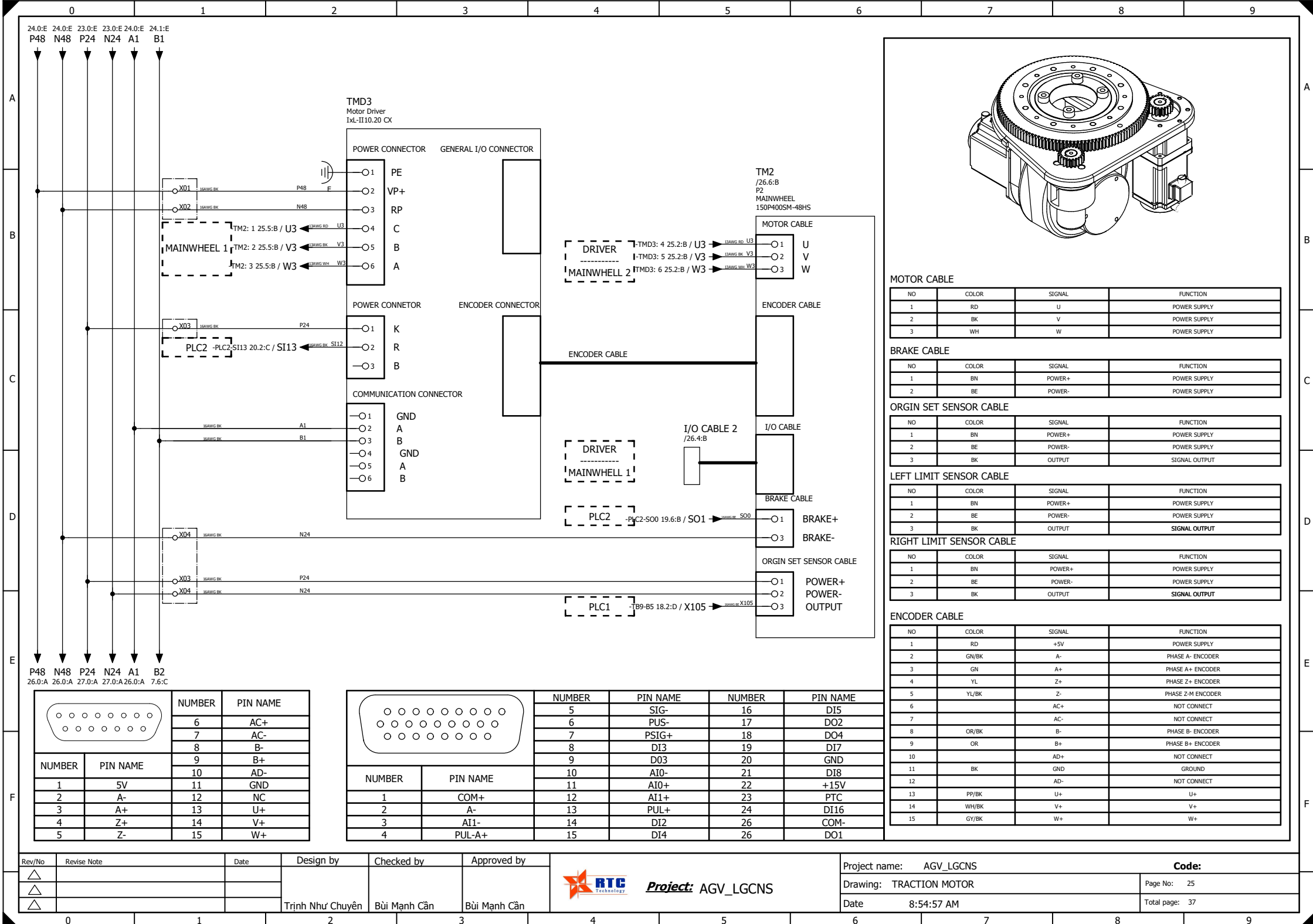
ETHERNET CONNECTION M12X4

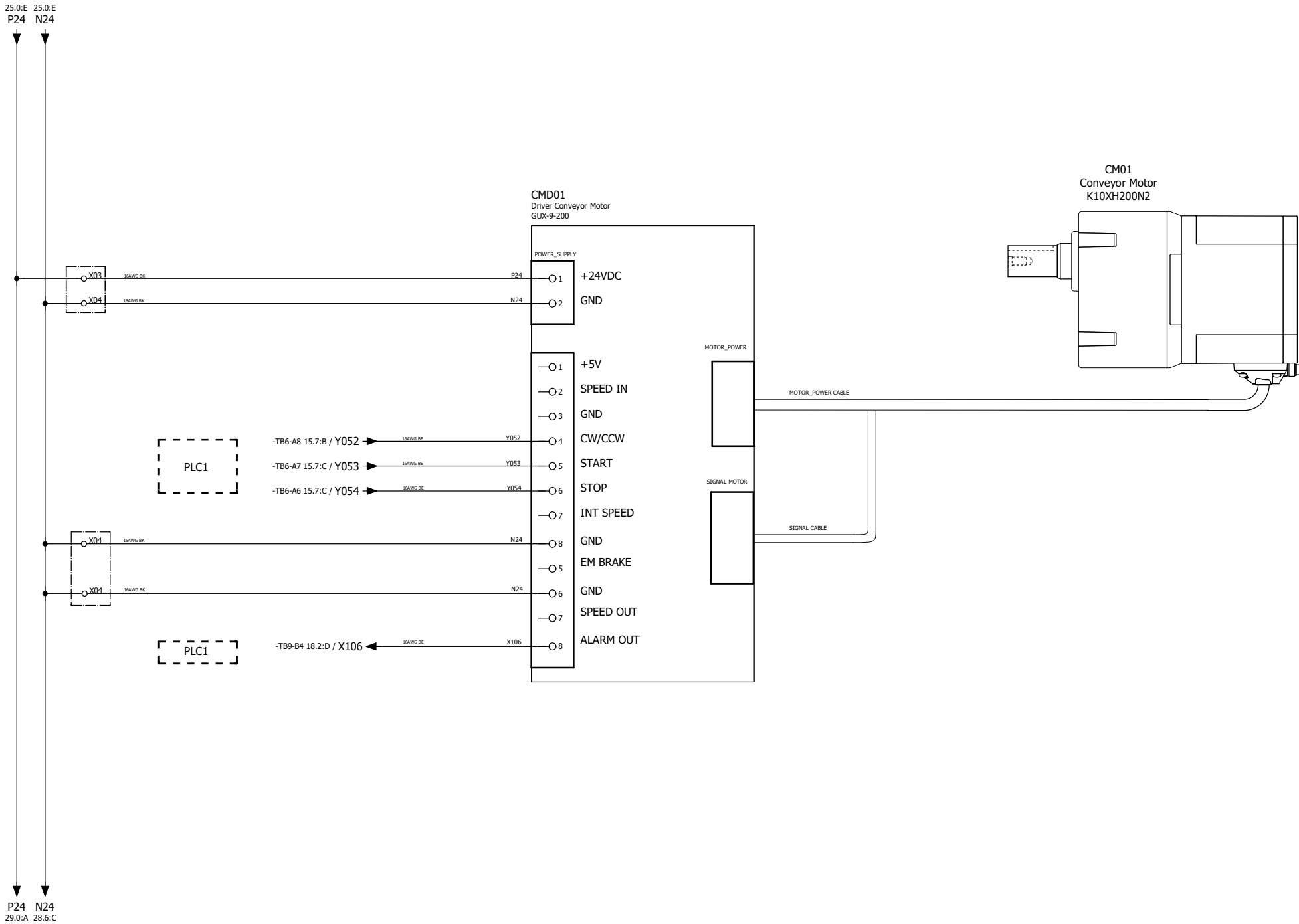
PIN	SIGNAL	FUNTION
1	ETHRNET TX+	ETHERNET INTERFACE
2	ETHERNET RX+	ETHERNET INTERFACE
3	ETHRNET TX-	ETHERNET INTERFACE
4	ETHERNET RX-	ETHERNET INTERFACE

POWER CONNECTION M12X5

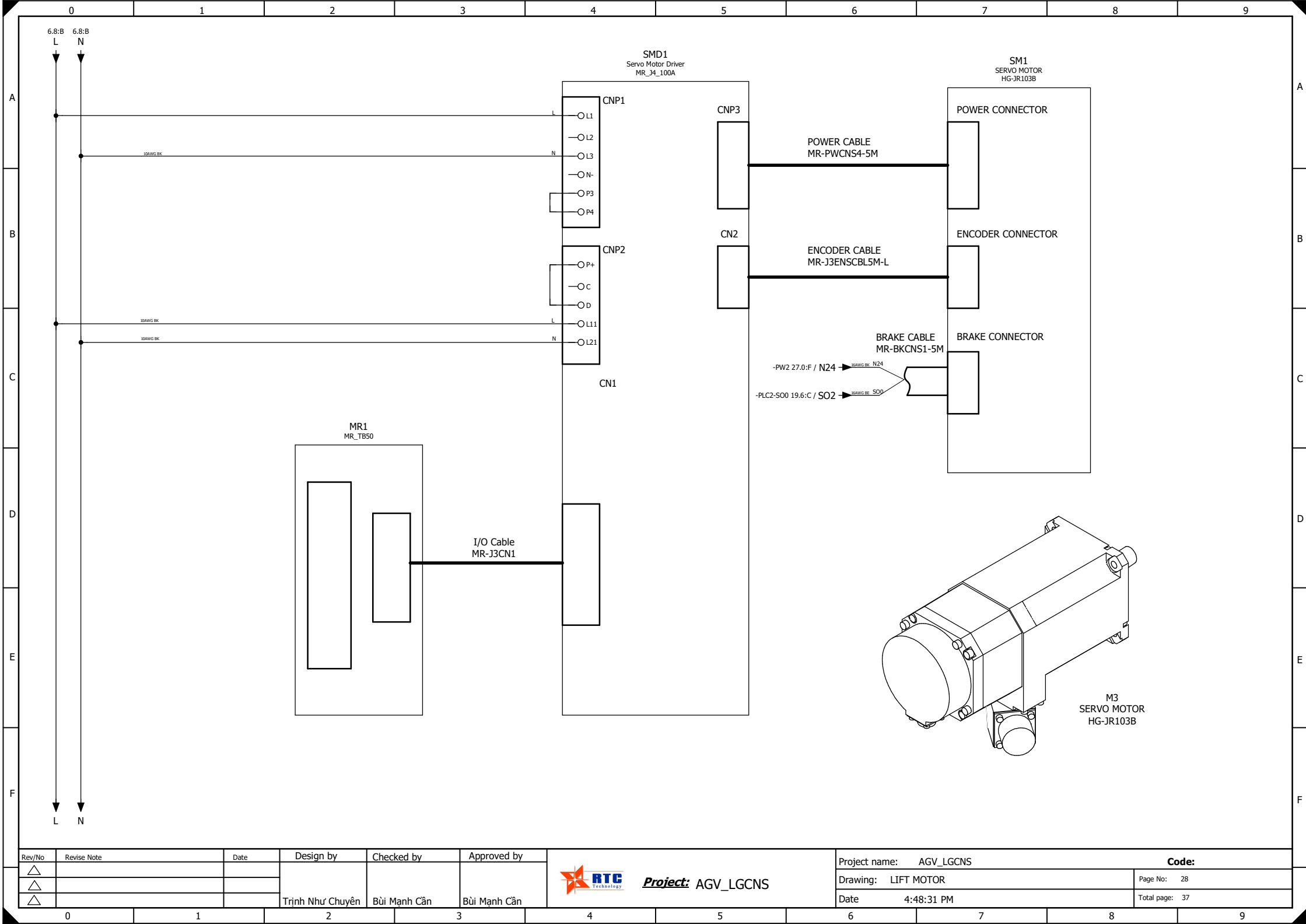
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1	BN	VS	POWER SUPPLY
2	WH	VS	POWER SUPPLY
3	BE	GND	GROUND
4	BK	OUT 24V	DIGITAL OUTPUT 1
5	GY	GND	GROUND

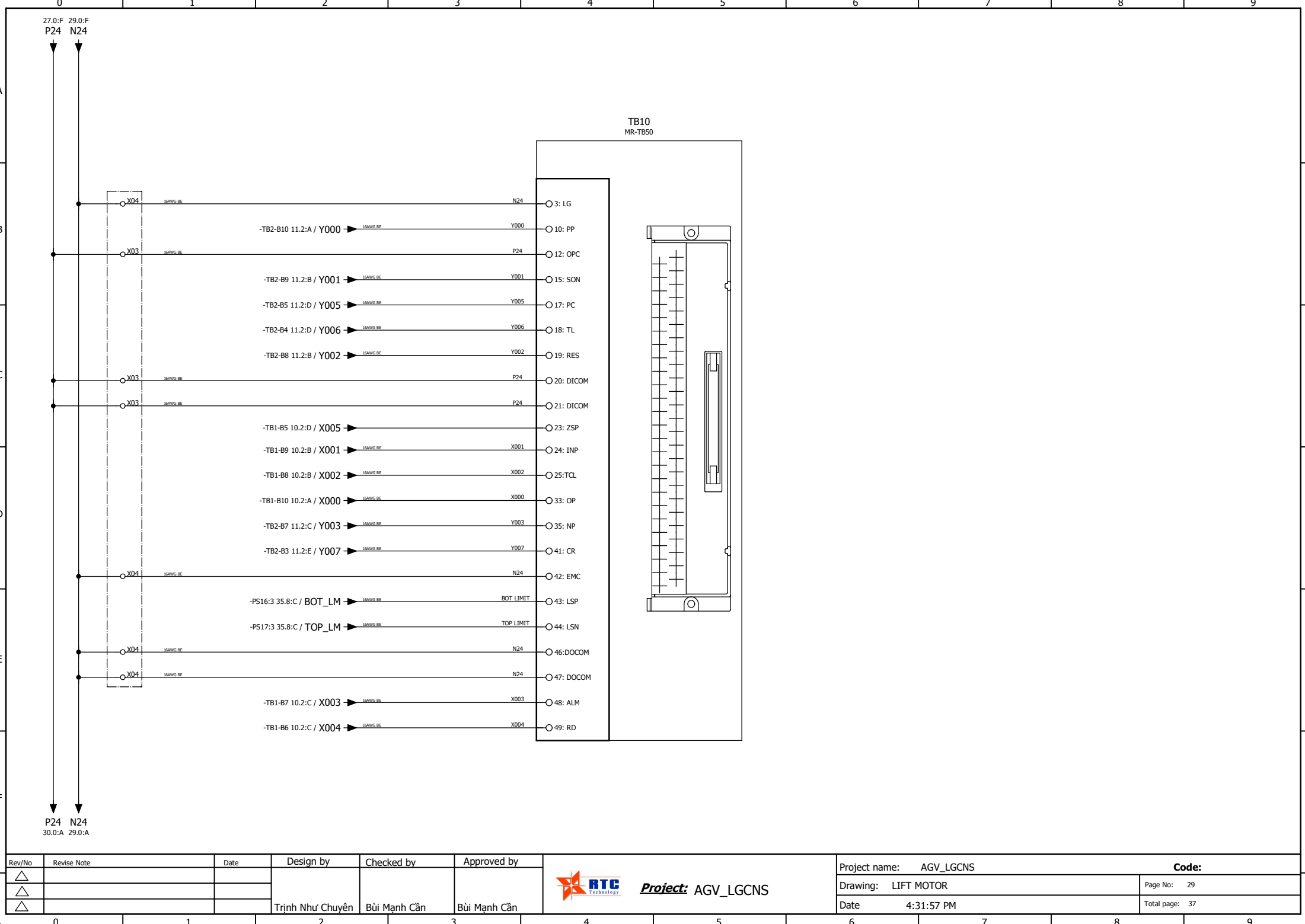






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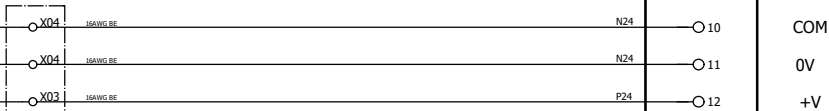
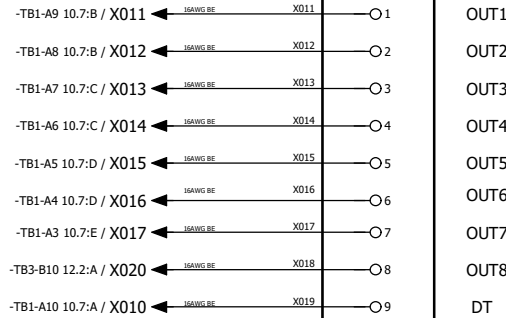
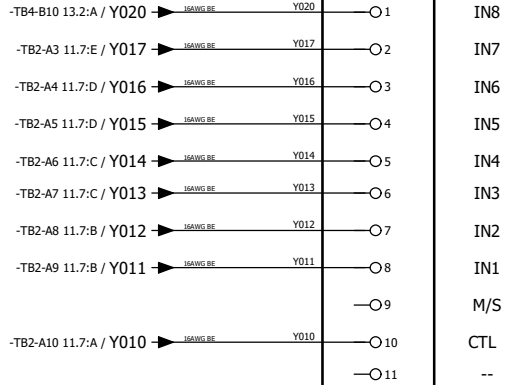


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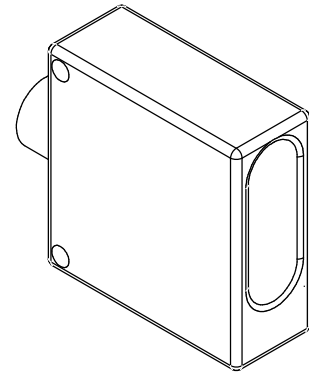
29.0:F
P24

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N24

PIO1
OPTICAL_DATA_TRANSMISSION_SENSOR
SOT-PP801S20N



P24 N24
31.0:A 30.0:A



PIO SENSOR CONNECTION

CONNECTOR CN1 11P

NO	COLOR	SIGNAL	FUNTION
1	GY/WH	IN8	L-ENB
2	BE/WH	IN7	U-ENB
3	BN/WH	IN6	READY
4	YE/WH	IN5	BUSY
5	GN/WH	IN4	TR-REQ
6	RD/WH	IN3	
7	WH/BK	IN2	CARRIER
8	BK/WK	IN1	COMPLETE
9	RD	M/S	MASTER/SLAVE
10	WH	CTL	TRANSMISSION STOP INPUT
11	--	--	--

PIO SENSOR CONNECTION

CONNECTOR 10P

NO	COLOR	SIGNAL	FUNTION
1	YE	OUT1	L-ENB
2	GY	OUT2	U-ENB
3	OR	OUT3	READY
4	PU	OUT4	BUSY
5	WH/RD	OUT5	TR-REQ
6	BE/RD	OUT6	VALID
7	OR/WH	OUT7	CARRIER
8	PU/WH	OUT8	COMPLETE
9	BK	DT	DATA NORMAL OUTPUT
10	GN	COM	OUTPUT COMMON 0V
11	BE	0V	POWER 0
12	BN	+V	POWER 242 VDC

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Project: AGV_LGCNS

Project name: AGV_LGCNS

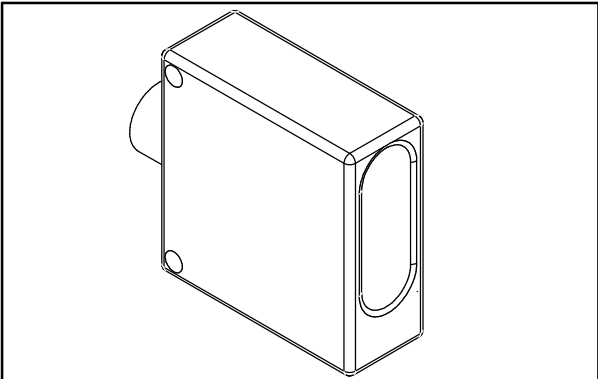
Drawing: PIO SENSOR

Date 8:27:23 AM

Code:

Page No: 30

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CONNECTOR CN1 11P

NO	COLOR	SIGNAL	FUNTION
1	GY/WH	IN8	L-ENB
2	BE/WH	IN7	U-ENB
3	BN/WH	IN6	READY
4	YE/WH	IN5	BUSY
5	GN/WH	IN4	TR-REQ
6	RD/WH	IN3	
7	WH/BK	IN2	CARRIER
8	BK/WK	IN1	COMPLETE
9	RD	M/S	MASTER/SLAVE
10	WH	CTL	TRANMISSION STOP INPUT
11	--	--	--

CONNECTOR 10P

NO	COLOR	SIGNAL	FUNTION
1	YE	OUT1	L-ENB
2	GY	OUT2	U-ENB
3	OR	OUT3	READY
4	PU	OUT4	BUSY
5	WH/RD	OUT5	TR-REQ
6	BE/RD	OUT6	VALID
7	OR/WH	OUT7	CARRIER
8	PU/WH	OUT8	COMPLETE
9	BK	DT	DATA NORMAL OUTPUT
10	GN	COM	OUTPUT COMMON 0V
11	BE	0V	POWER 0
12	BN	+V	POWER 242 VDC

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Project: AGV_LGCNS

Project name: AGV_LGCNS

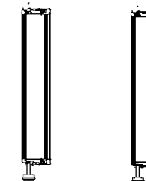
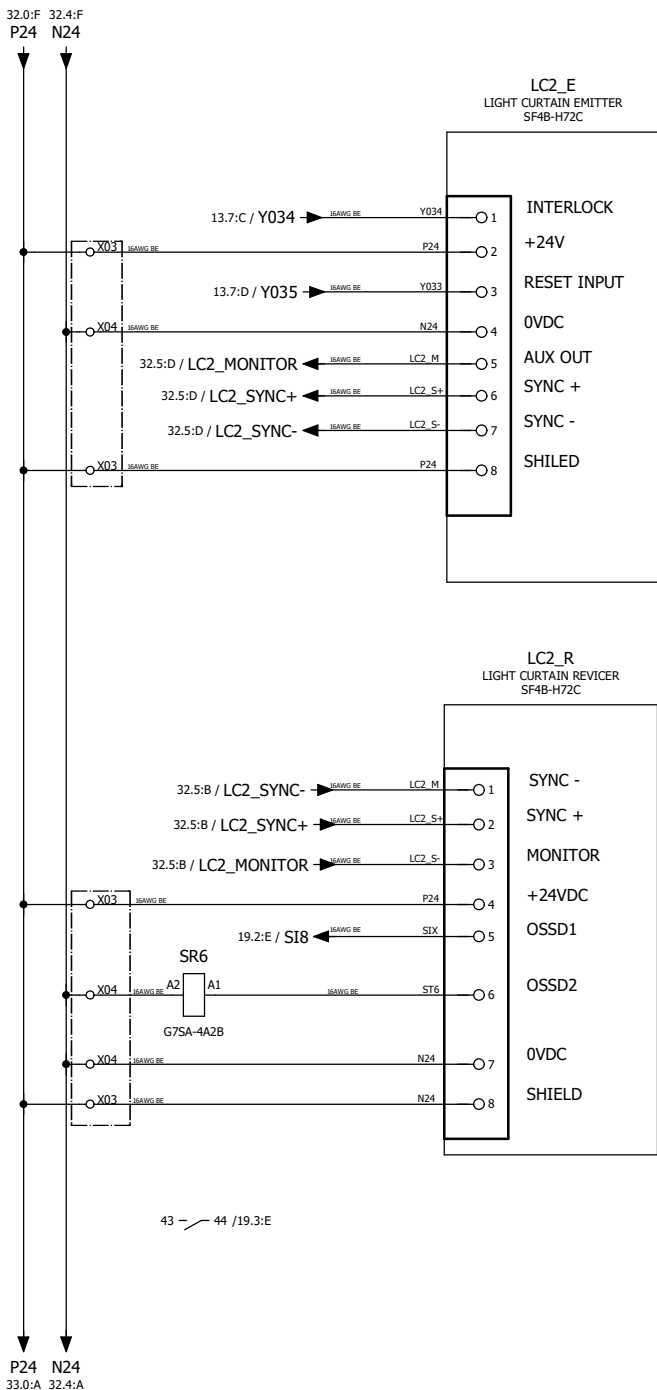
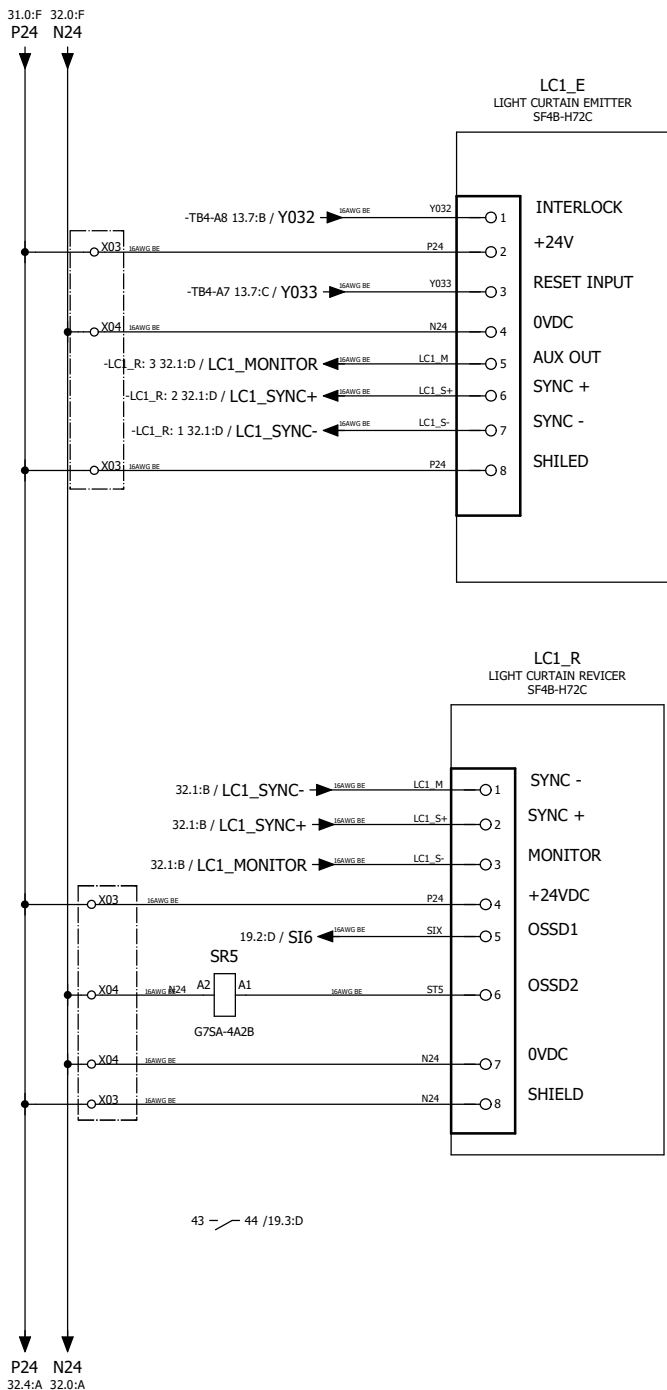
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Drawing: PIO SENSOR

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Date 8:53:33 AM

Total page: 37



LIGHT CURTAIN TX CONNECTION M12X5

NO	COLOR	SIGNAL	FUNTION
1	LPP	INTERLOCK	INTERLOCK SETTING OUTPUT
2	BN	+24VDC	POWER SUPPLY
3	PK	RESETINPUT	HALL INPUT/ RESET INPUT
4	BE	0VDC	POWER SUPPLY
5	YE-GN/BK	AUX OUT	AUXILIARY OUTPUT
6	OR	SYNC +	SYNCHORINIZATION +
7	OR/BK	SYNC -	SYNCHORINIZATION -
7	SHIELD	SHIELD	OUTPUT POLARITY SETTING

LIGHT CURTAIN RX CONNECTION M12X5

NO	COLOR	SIGNAL	FUNTION
1	OR/BK	SYNC -	SYNCHORINIZATION -
2	OR	SYNC +	SYNCHORINIZATION -
3	YE-GN	MONITOR	EXTERNAL DEVICE MONITOR
4	BN	+24VDC	POWER SUPPLY
5	BK	OSSD1	CONTROLL OUTPUT1
6	WH	OSSD2	CONTROLL OUTPUT2
7	BE	0VDC	POWER SUPPLY
8	SHIELD	SHIELD	OUTPUT POLARITY SETTING

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Project: AGV_LGCNS

Project name: AGV_LGCNS

Drawing: LIGHT CURTAIN

Date 4:50:25 PM

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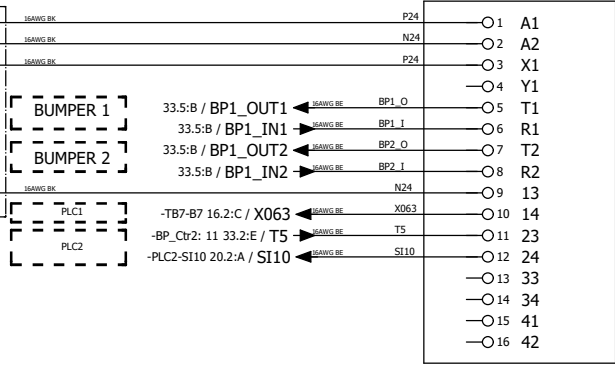
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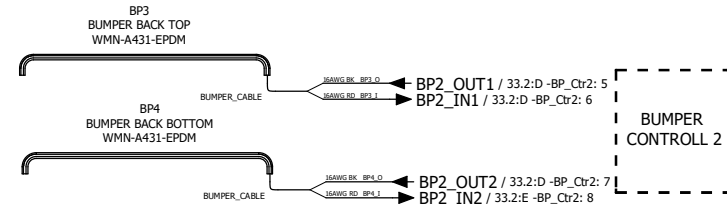
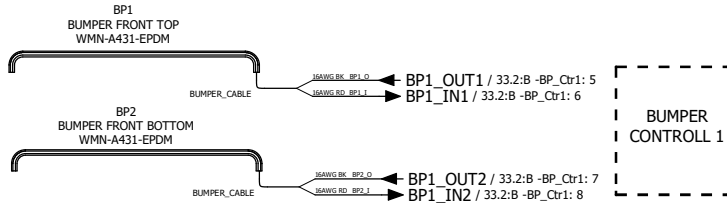
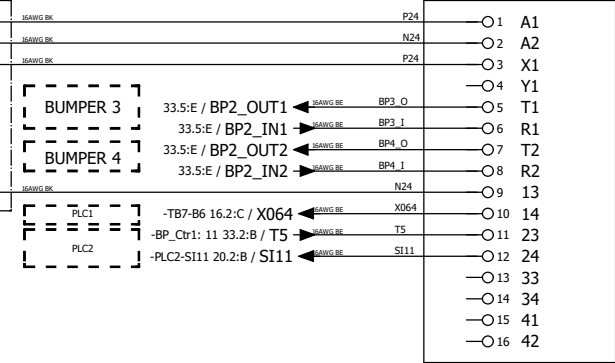
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P24 N24

P24 N24
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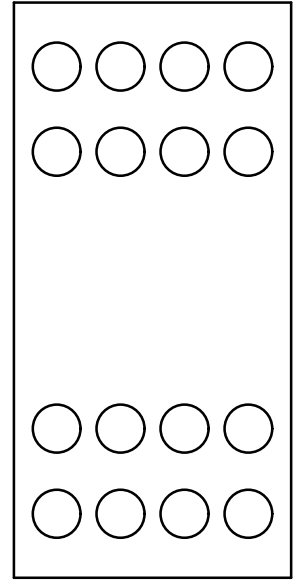
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BUMPER CONTROL
Tner X31



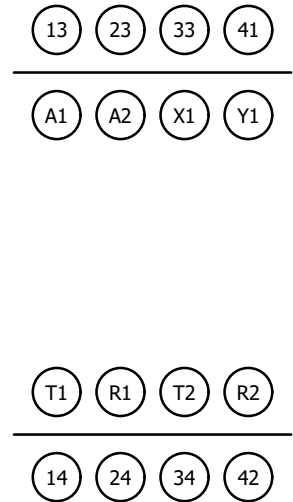
BP_Ctr2
BUMPER CONTROL
Tner X31



BUMPER CONTROL
TNER X31



BUMPER CONTROL TNER X31 PINOUT



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Project: AGV_LGCNS

Project name: AGV_LGCNS

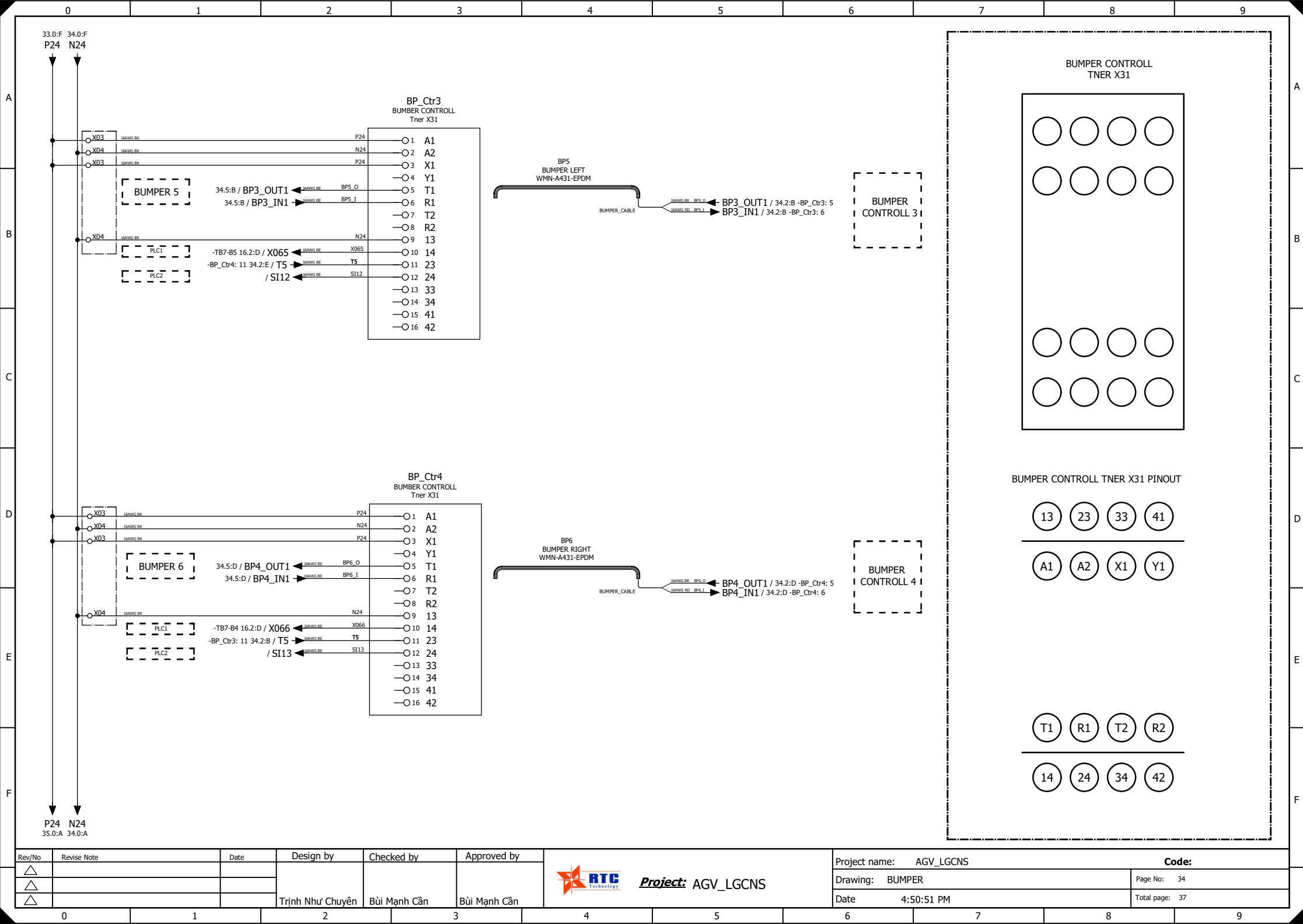
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Date 4:50:39 PM

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Page No: 33

Total page: 37

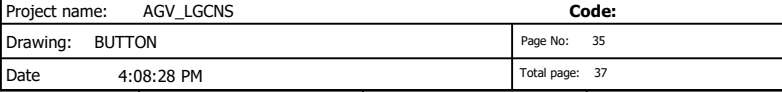


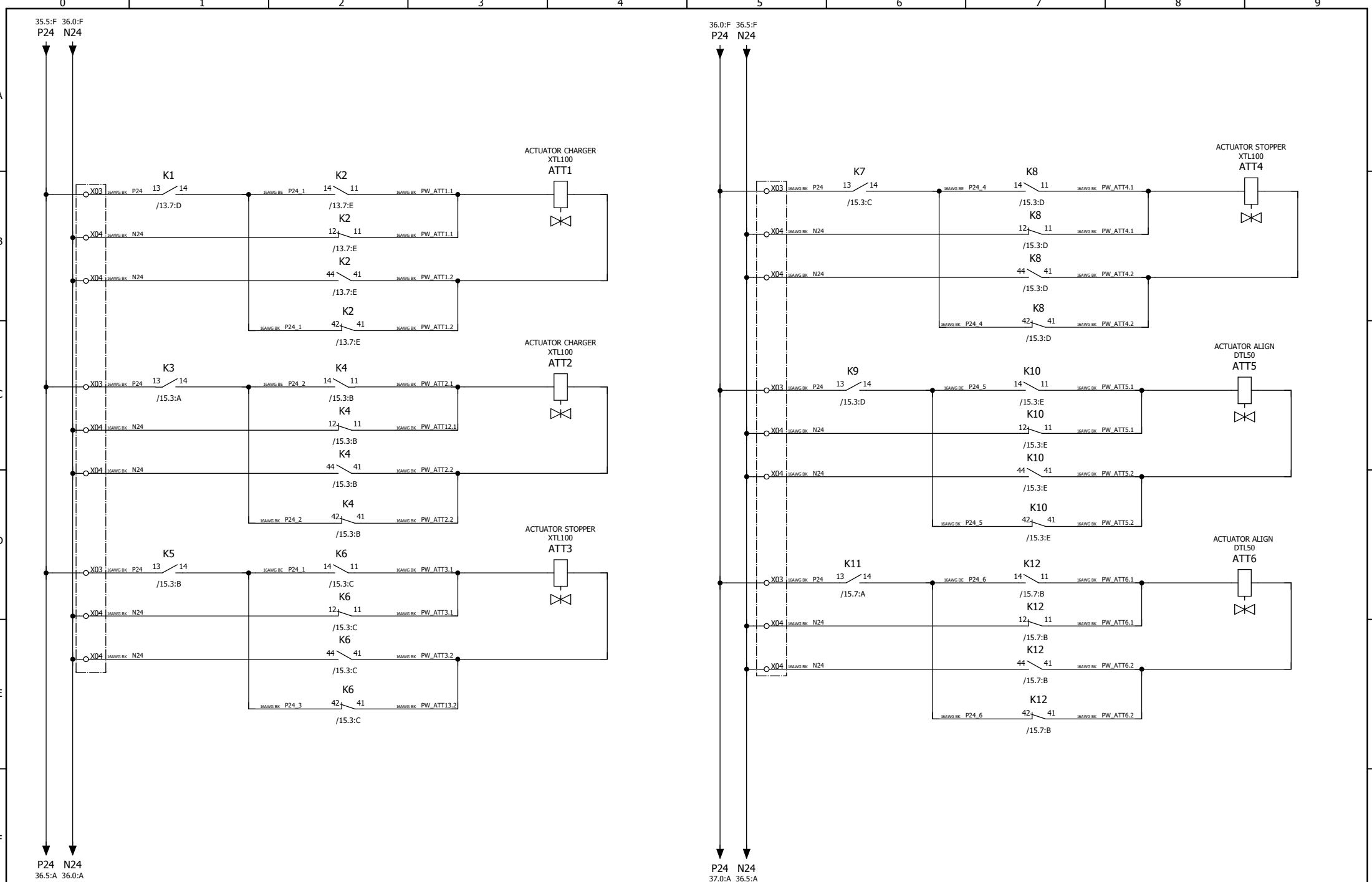
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Project: AGV_LGCNS

Project name:	AGV_LGCNS	Code:	
Drawing:	BUMPER	Page No:	34
Date	4:50:51 PM	Total page:	37

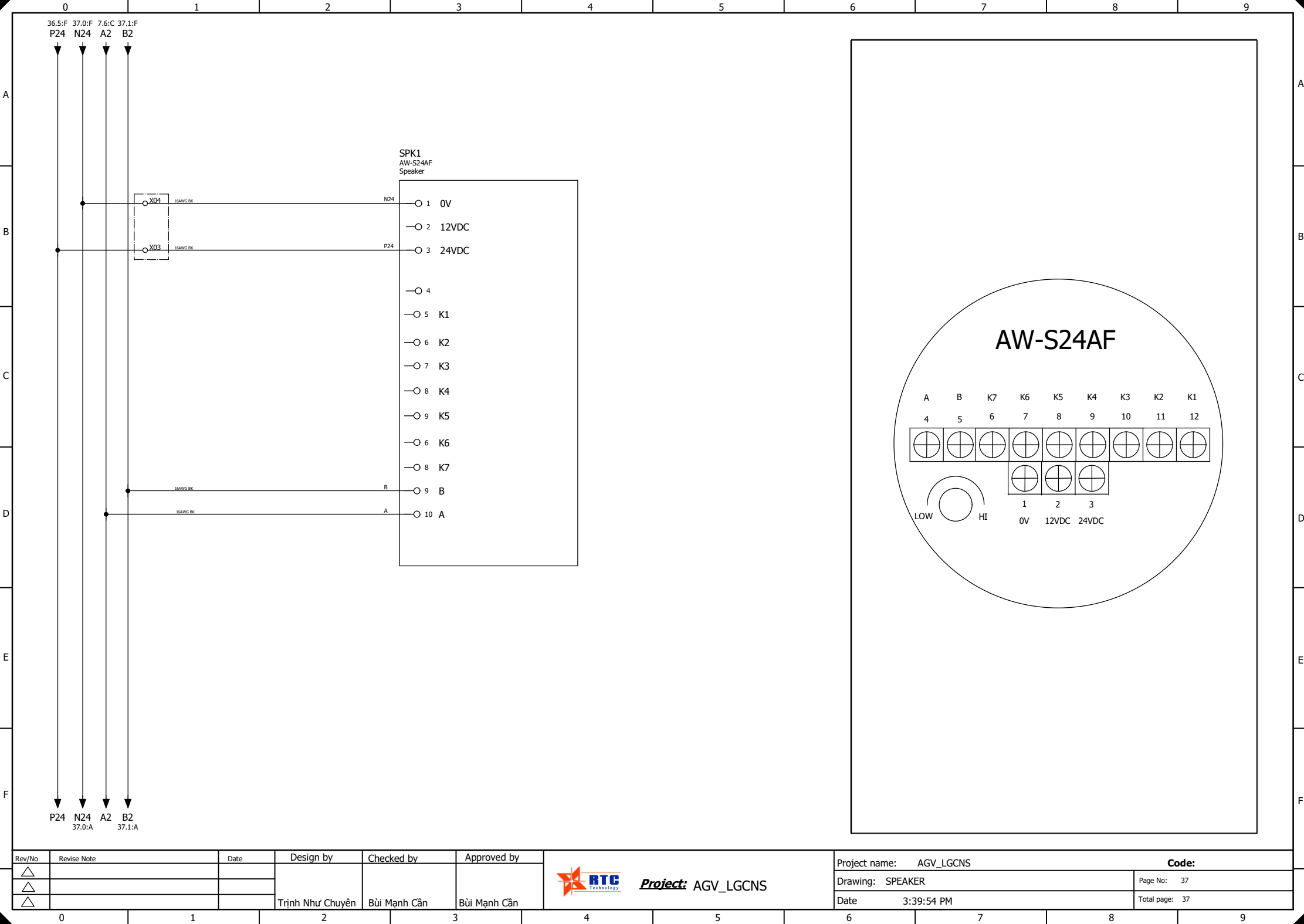




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Project: AGV_LGCNS



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Project: AGV_LGCNS

Project name:	AGV_LGCNS	Code:
Drawing:	SPEAKER	Page No: 37
Date	3:39:54 PM	Total page: 37