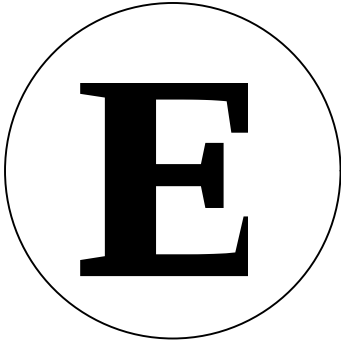




ELECTRICAL DIAGRAM

101-12249-820	CHESTERTON,IN	REV:	2
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REV TAG	PAGE	DESCRIPTION
△△	1A/24	ELECTRICAL DRAWING INDEX
	2A/24	480 VAC MAIN POWER DIAGRAM
	2B/24	480 VAC LIFT POWER DIAGRAM
△	3A/24	240/120VAC CONTROL DIAGRAM
△△	4A/24	120VAC CONTROL DIAGRAM
△	5A/24	24VDC - MCP DIAGRAM
	6A/24	24VDC - TB2 DIAGRAM
△	7A/24	24VDC - FIELD DIAGRAM
	8A/24	24VDC - E-STOP LOOP DIAGRAM
△	9A/24	24VDC - SAFETY LOOP DIAGRAM
	9B/24	24VDC - SAFETY RELAY DIAGRAM
△△	10A/24	INPUT CARD X00 TO X21 DIAGRAM
△	10B/24	INPUT CARD X22 TO X37 DIAGRAM
△	11A/24	FUTURE USE
	12A/24	OUTPUT CARD Y00 TO Y17 DIAGRAM
	12B/24	OUTPUT CARD Y20 TO Y37 DIAGRAM
△	13A/24	MCP CONNECTOR DIAGRAM
	13B/24	FUTURE USE
△	13C/24	SMP WALL MOUNT SOCKET WITH E-STOP
	14A/24	HAND-HELD TOUCH SCREEN DIAGRAM
△	14B/24	HAND-HELD MAINTENANCE DIAGRAM
	14C/24	42 PINS CONNECTOR PINOUT DIAGRAM
	15A/24	ELECTRICAL SYMBOL SCHEDULE AND GENERAL INFORMATION
	16A/24	SWITCHES INFORMATION

GENERAL NOTES

- 1-LLOCATION OF MCP AND SMP TO BE CONFIRMED.
- 2-THE INDICATED WIRE SIZES ARE BASE ON NATIONAL ELECTRICAL CODE AND ON TYPICAL CONDITIONS SUCH AS LENGTHS OF RUNS. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO INSURE AND ASCERTAIN THAT PROPOSED WIRE SIZES AND APPROPRIATE CONDUITS AND JUNCTION BOXES ARE COMPLYING WITH LOCAL CODES OR BY-LAWS. PLEASE REFER TO GALA FOR ANY PARTICULAR CONDITION.
- 3-ALL WIRES MUST BE NUMBERED OR MARKED ACCORDING TO GALA DRAWINGS.
- 4-ALL JUNCTION BOXES MUST BE IDENTIFIED ACCORDING TO GALA DRAWINGS.
- 5-FLUSH MOUNTED JUNCTION BOXES 4' X 2' X 2' (EXCEPT OTHERWISE NOTED)
- 6-THIS WIRING DIAGRAM (SIZE & QTY) IS INTENDED ONLY FOR LIFT SAFETY AND CONTROL COMPONENTS, WIRING FOR OTHER ELECTRICAL COMPONENTS ON LIFT A/V OUTLETS, SPEAKERS IF REQUIRED ARE NOT INCLUDED. PLEASE COORDINATE WITH GALA FOR OTHER ELECTRICAL COMPONENTS.
- 7-RUNS SHOWN ARE SCHEMATIC ONLY TO INDICATE WIRE NUMBERS, SIZES & LOCATIONS. FIELD CONDUIT RUNS WILL VARY TO BEST SUIT SITE CONDITIONS AS LONG AS WIRING INFO ON THIS DRAWING IS RESPECTED.

WIRE CODE

CONTROL 240/120VAC LINE : 14AWG BLACK *

CONTROL 120VAC NEUTRAL : 14AWG WHITE *

CONTROL 12VDC : 16AWG PURPLE *

CONTROL 24VDC (+24V + ...P) : 16AWG BROWN *

CONTROL 0VDC (0V) : 16AWG BLUE *

PLC I/O'S 24VDC : 16AWG RED *

ALL POWER CIRCUITS 575V : 14AWG BLACK *

GROUND (GND): 14AWG GREEN *

ALL SOURCE COMING FROM OUTSIDE OF MCP: 14AWG YELLOW *

* UNLESS OTHERWISE INDICATED ON DRAWINGS

* USE (THHN) CABLE INTO CONDUITS FOR GAGE 14AWG OR MORE

* USE (TFFN) CABLE INTO CONDUITS FOR GAGE 16AWG OR LESS

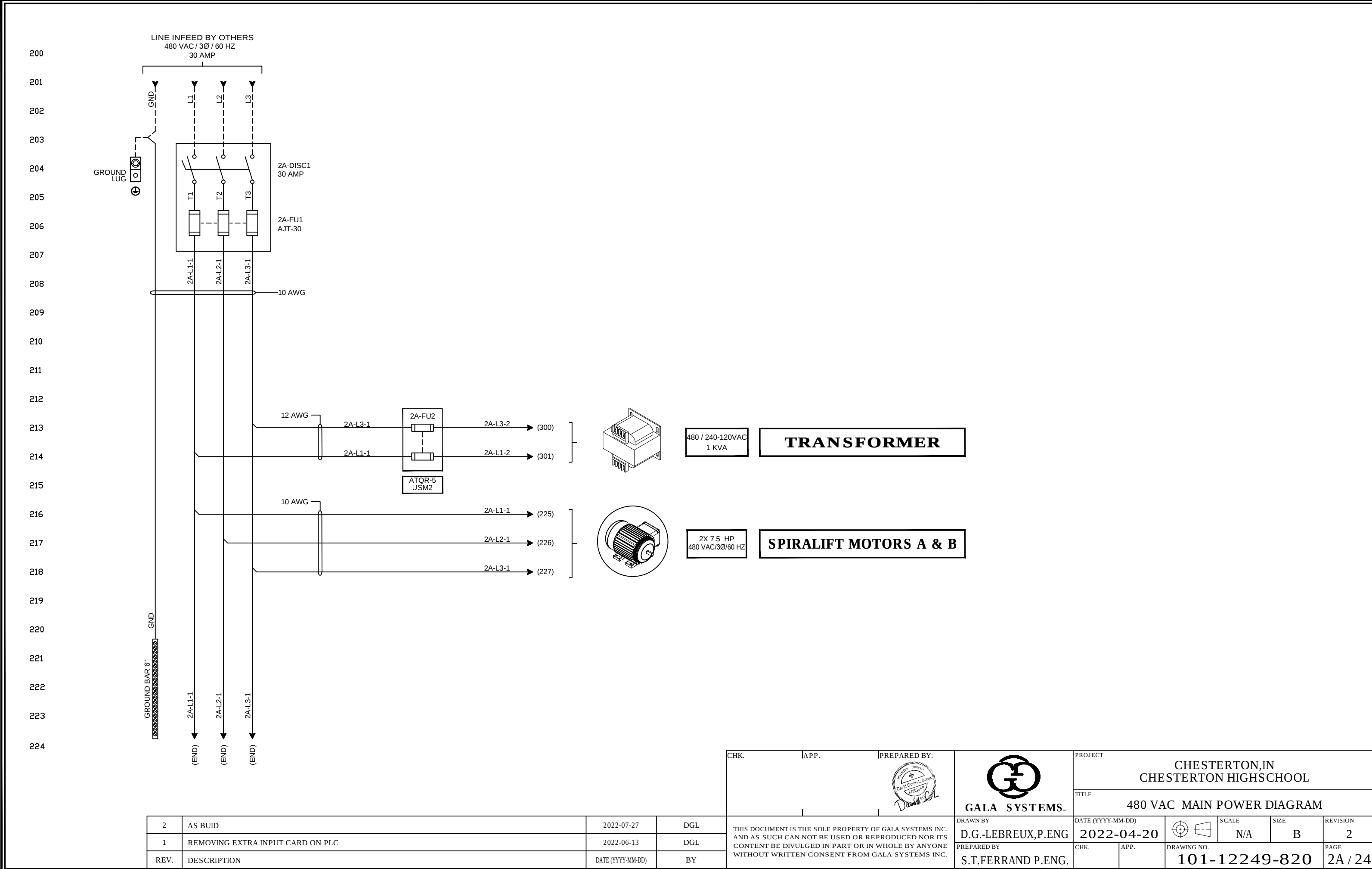
* USE (TEW) CABLE INTO CONTROL PANEL

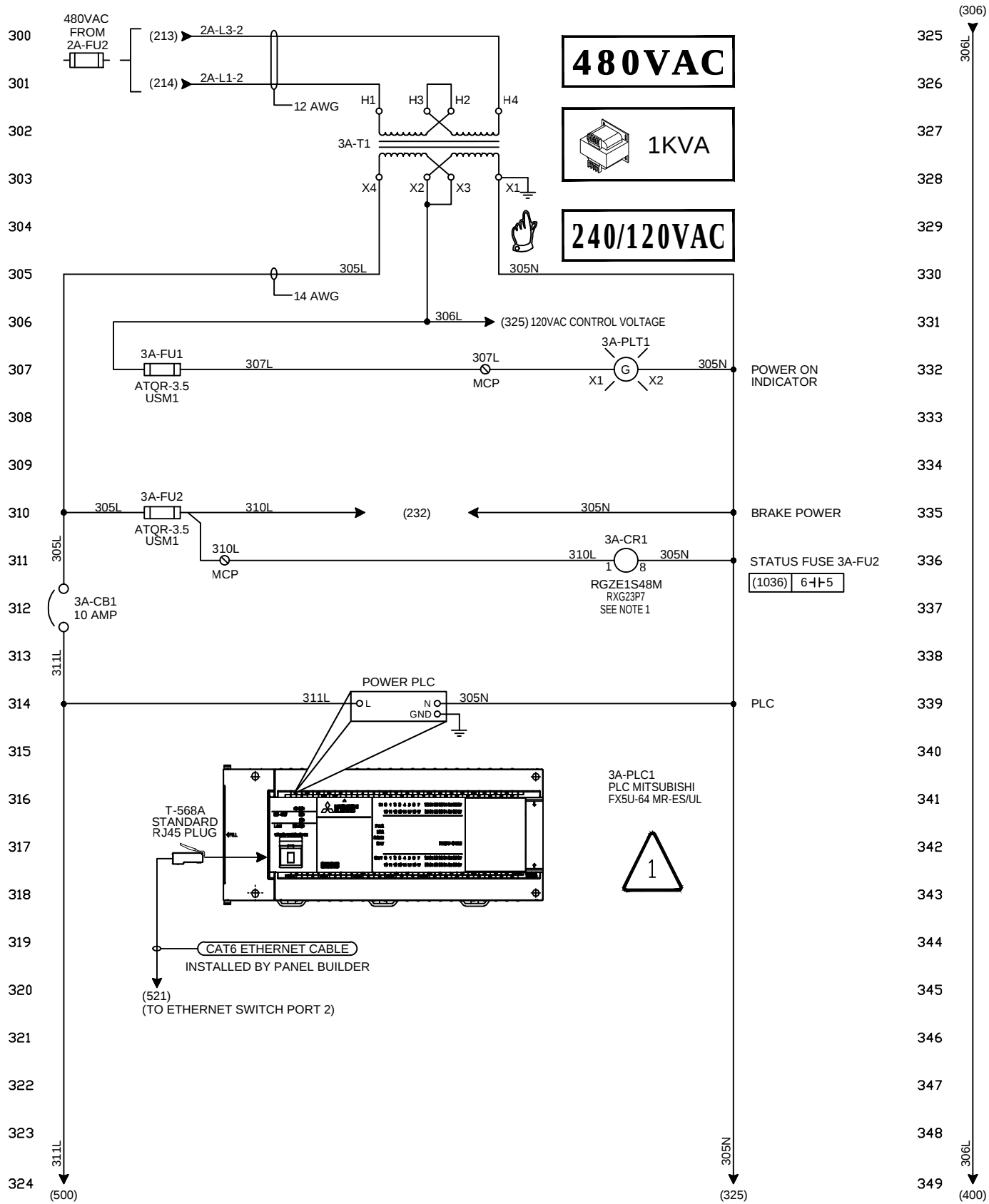
* ALL ELECTRICAL CONDUCTORS SHALL BE COPPER & STRANDED

THIS DRAWING MUST BE READ JOINTLY
WITH DRAWING
101-12249-825 (C)
101-12249-861 (L)

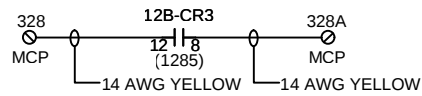
2	AS BUID	2022-07-27	DGL
1	REMOVING EXTRA INPUT CARD ON PLC	2022-06-13	DGL
REV.	DESCRIPTION	DATE (YYYY-MM-DD)	BY

CHK.	APP.	PREPARED BY:	 GALA SYSTEMS™	PROJECT CHESTERTON,IN CHESTERTON HIGHSCHOOL					
				TITLE ELECTRICAL DRAWING INDEX					
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			PREPARED BY S.T.FERRAND P.ENG.	CHK.	APP.	DRAWING NO. 101-12249-820		PAGE 1A / 24	

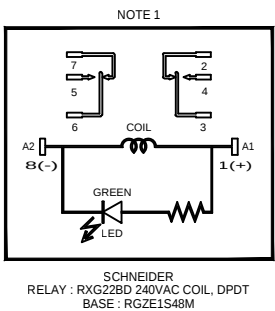




HANDICAP LIFT INTERLOCKS

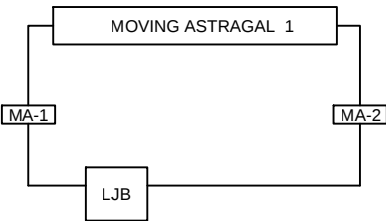
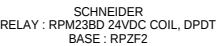
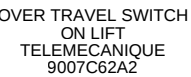
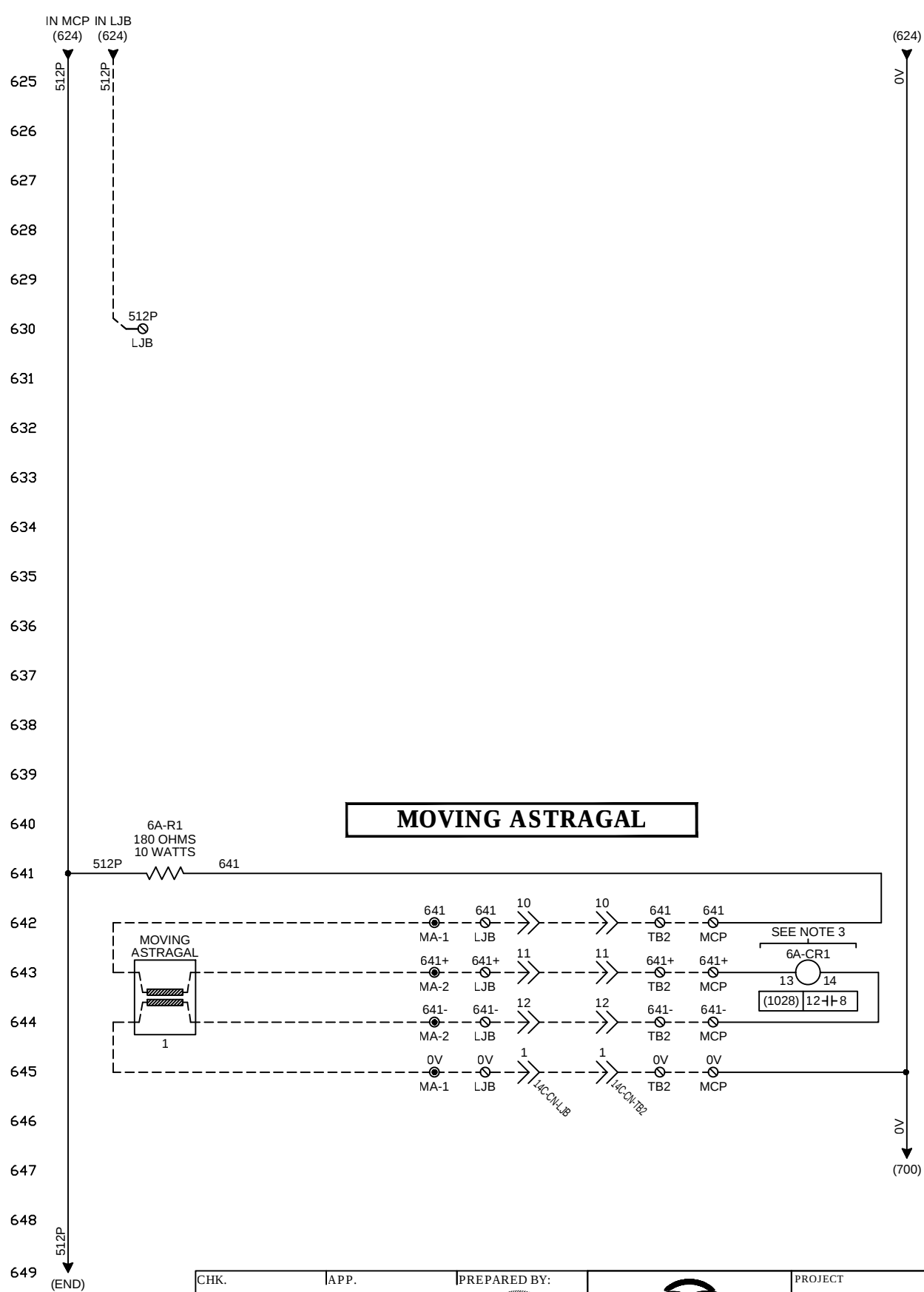


HANDICAP LIFT
IS OK TO
MOVE

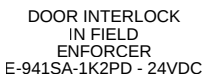
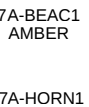
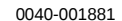
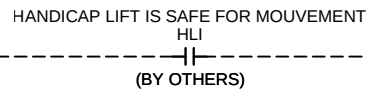


2	AS BUID	2022-07-27	DGL
1	REMOVING EXTRA INPUT CARD ON PLC	2022-06-13	DGL
REV.	DESCRIPTION	DATE (YYYY-MM-DD)	BY

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				PREPARED BY S.T.FERRAND P.ENG.	CHK.	APP.	DRAWING NO. 101-12249-820		

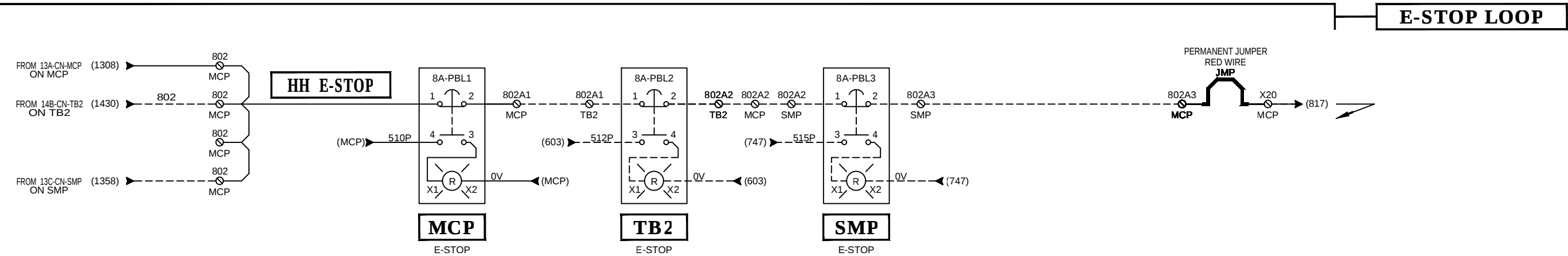


CHK.	APP.	PREPARED BY: 	 GALA SYSTEMS	PROJECT CHESTERTON,IN CHESTERTON HIGHSCHOOL						
				TITLE 24VDC - TB2 DIAGRAM *** LIFT1						
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				PREPARED BY S.T.FERRAND P.ENG.		CHK.	APP.	DRAWING NO. 101-12249-820		PAGE 6A / 24



DATE (YYYY-MM-DD) 2022-04-20			SCALE N/A	SIZE B	REVISION 2
CHK.	APP.	DRAWING NO. 101-12249-820			PAGE 7A / 24

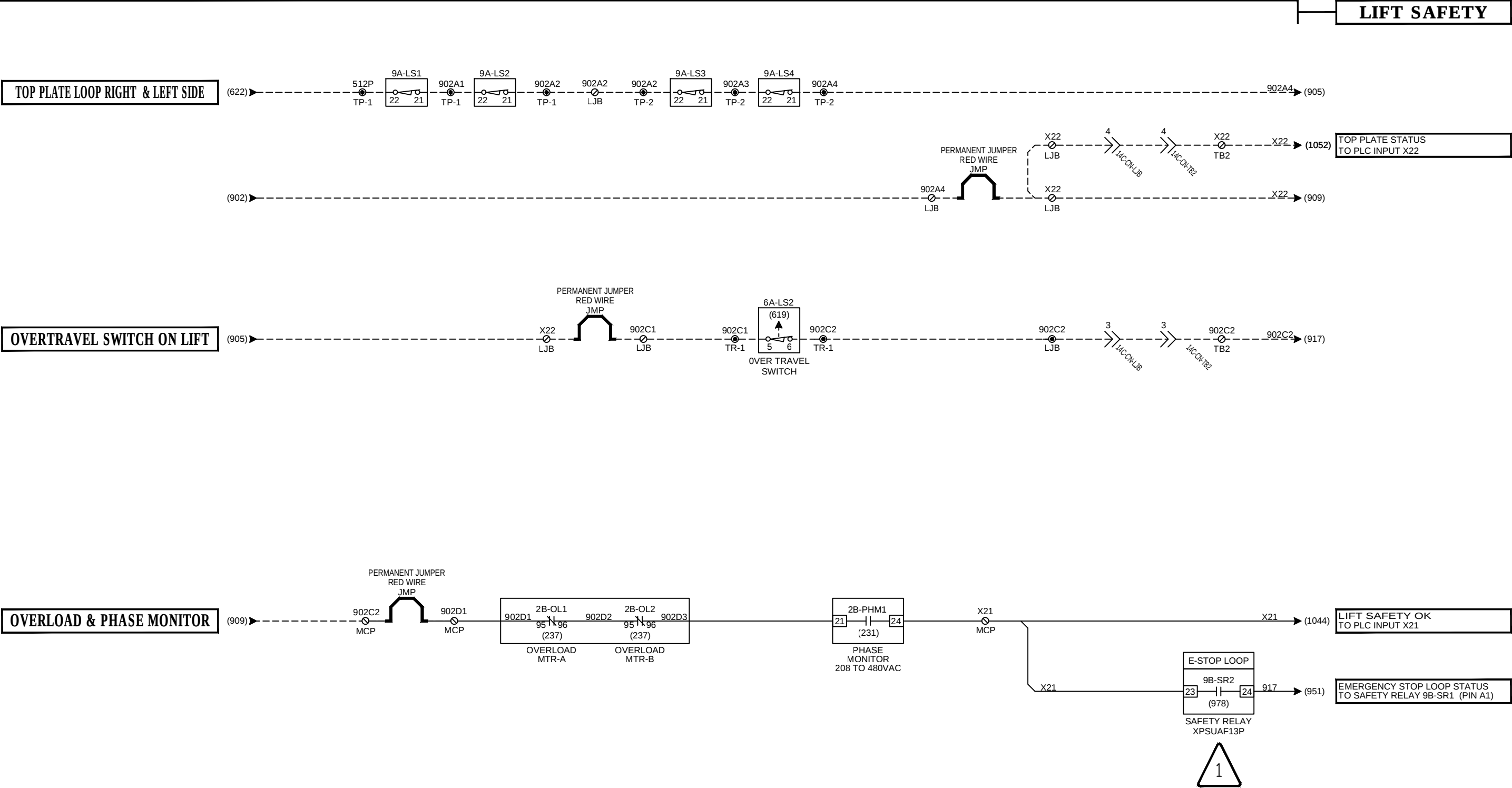
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2	AS BUID	2022-07-27	DGL
1	REMOVING EXTRA INPUT CARD ON PLC	2022-06-13	DGL
REV.	DESCRIPTION	DATE (YYYY-MM-DD)	BY

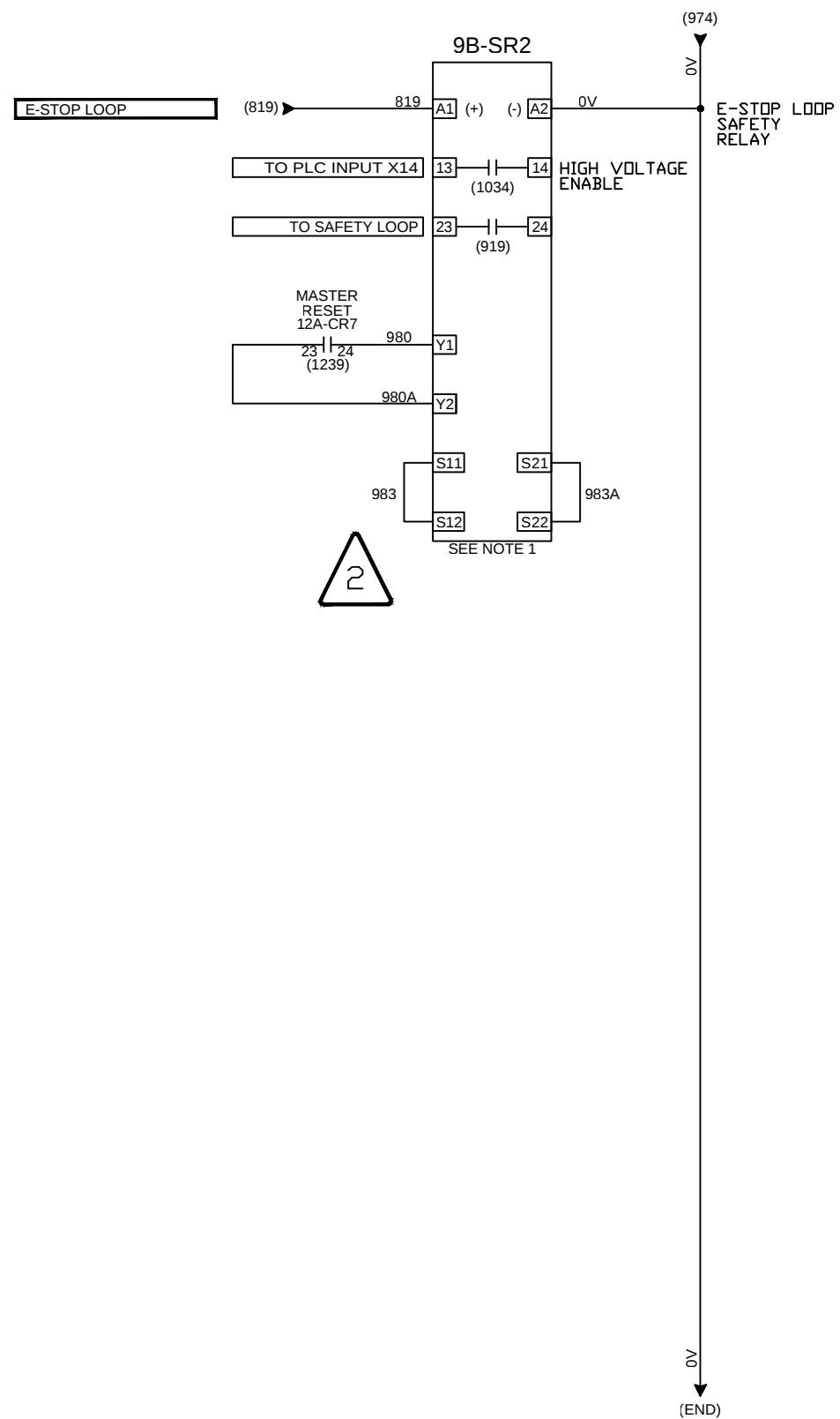
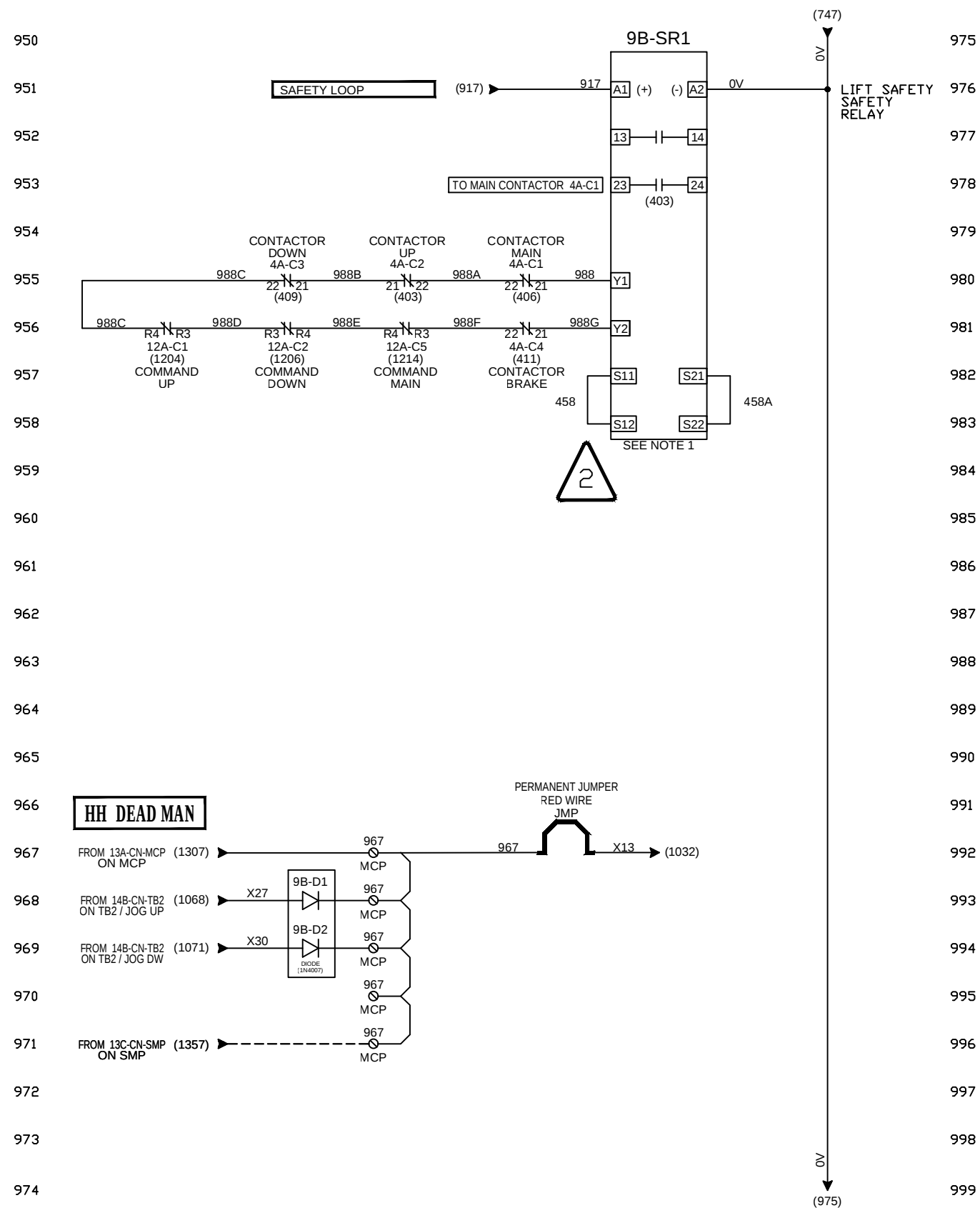
CHK.	APP.	PREPARED BY: 	 GALA SYSTEMS™	PROJECT CHESTERTON,IN CHESTERTON HIGH SCHOOL					
				TITLE 24VDC - E-STOP LOOP					
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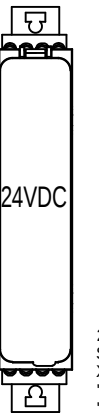


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1	REMOVING EXTRA INPUT CARD ON PLC	2022-06-13	DGL
REV.	DESCRIPTION	DATE (YYYY-MM-DD)	BY

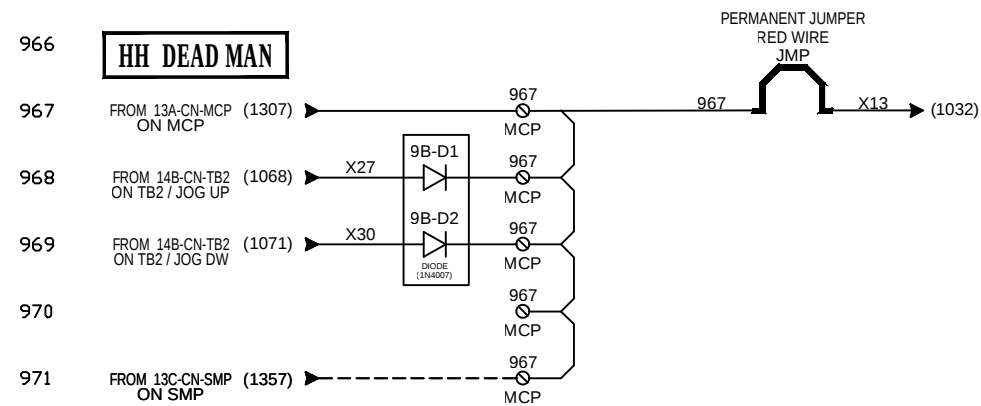
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					TITLE 24VDC - SAFETY LOOP				
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			PREPARED BY S.T.FERRAND P.ENG.	CHK.	APP.	DRAWING NO. 101-12249-820		PAGE 9A / 24	



NOTE 1

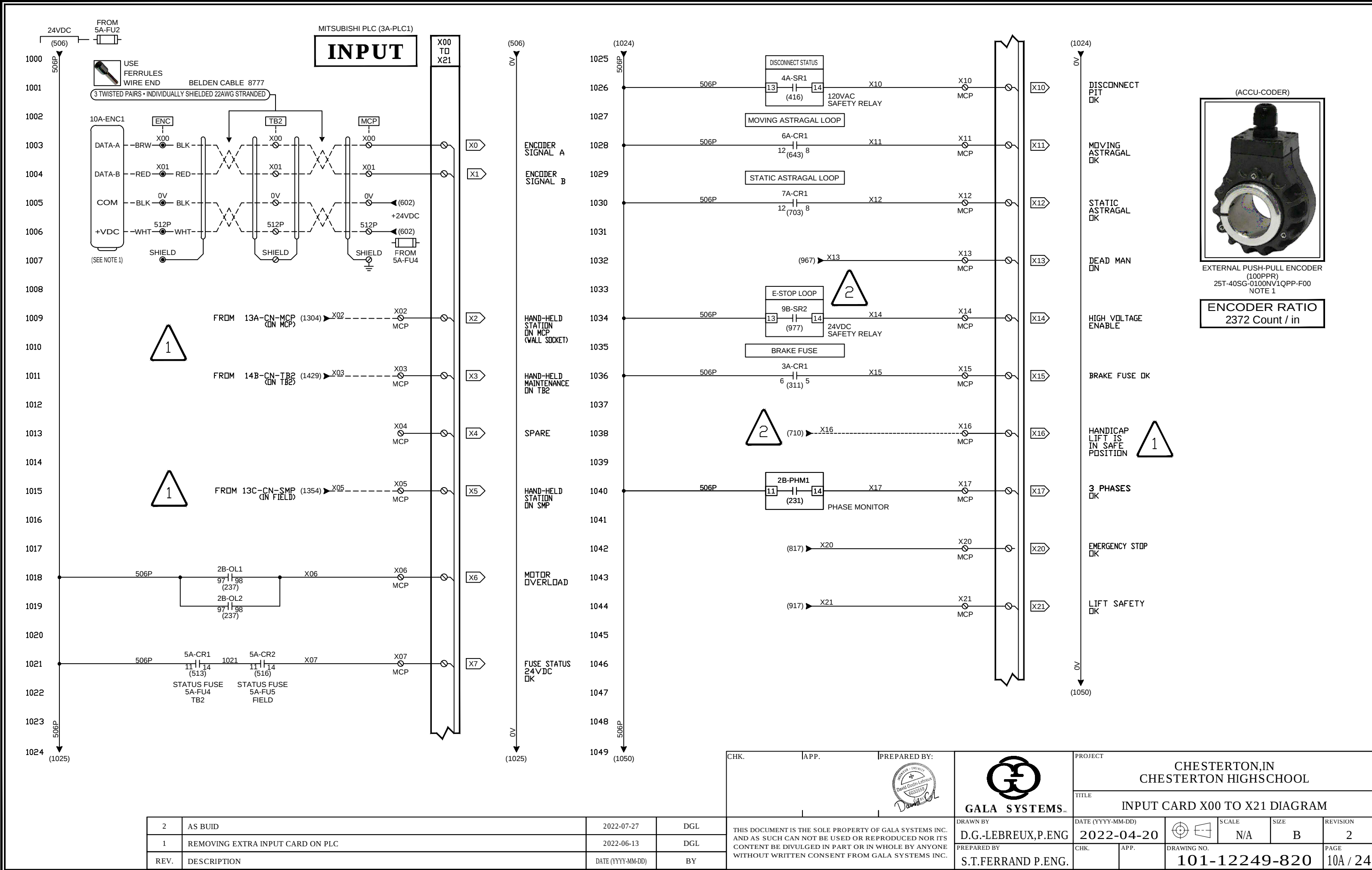


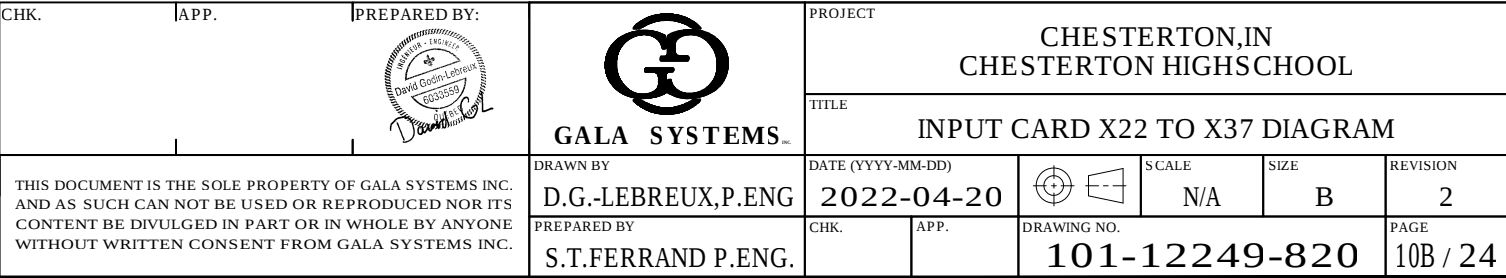
24VDC
SAFETY RELAY
XPSUAF13P MODULE
"START" AT 1
"FUNCTION" AT 1

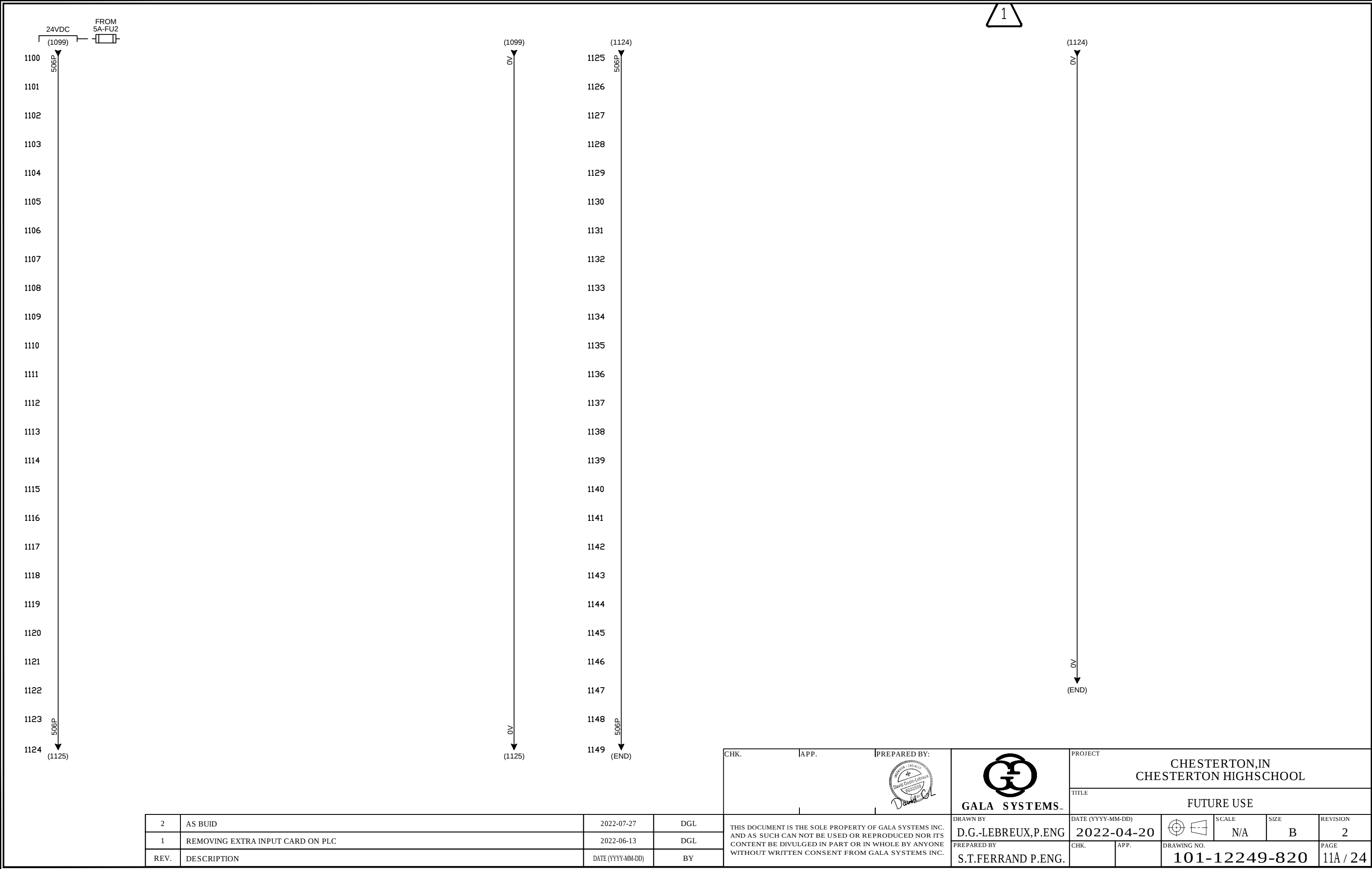


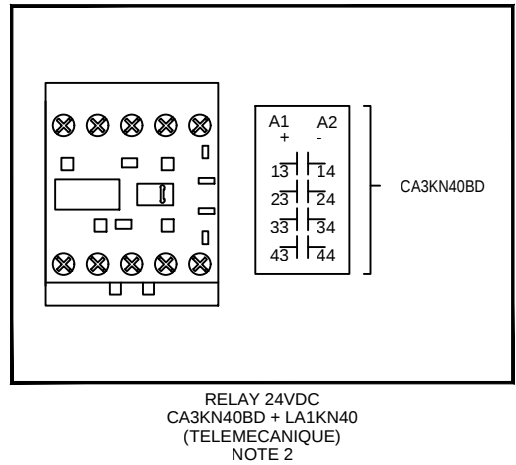
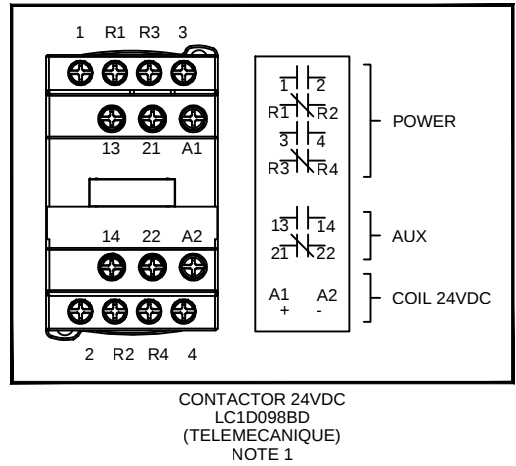
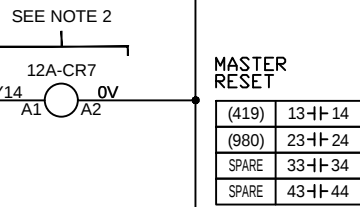
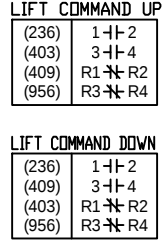
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1	REMOVING EXTRA INPUT CARD ON PLC	2022-06-13
REV.	DESCRIPTION	DATE (YYYY-MM-DD)

CHK.	APP.	PREPARED BY:	 GALA SYSTEMS	PROJECT CHESTERTON,IN CHESTERTON HIGHSCHOOL				
		 <i>David G. Lebreux</i>		TITLE 24VDC - SAFETY RELAY				
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			PREPARED BY S.T.FERRAND P.ENG.	CHK.	APP.	DRAWING NO. 101-12249-820		PAGE 9B / 24

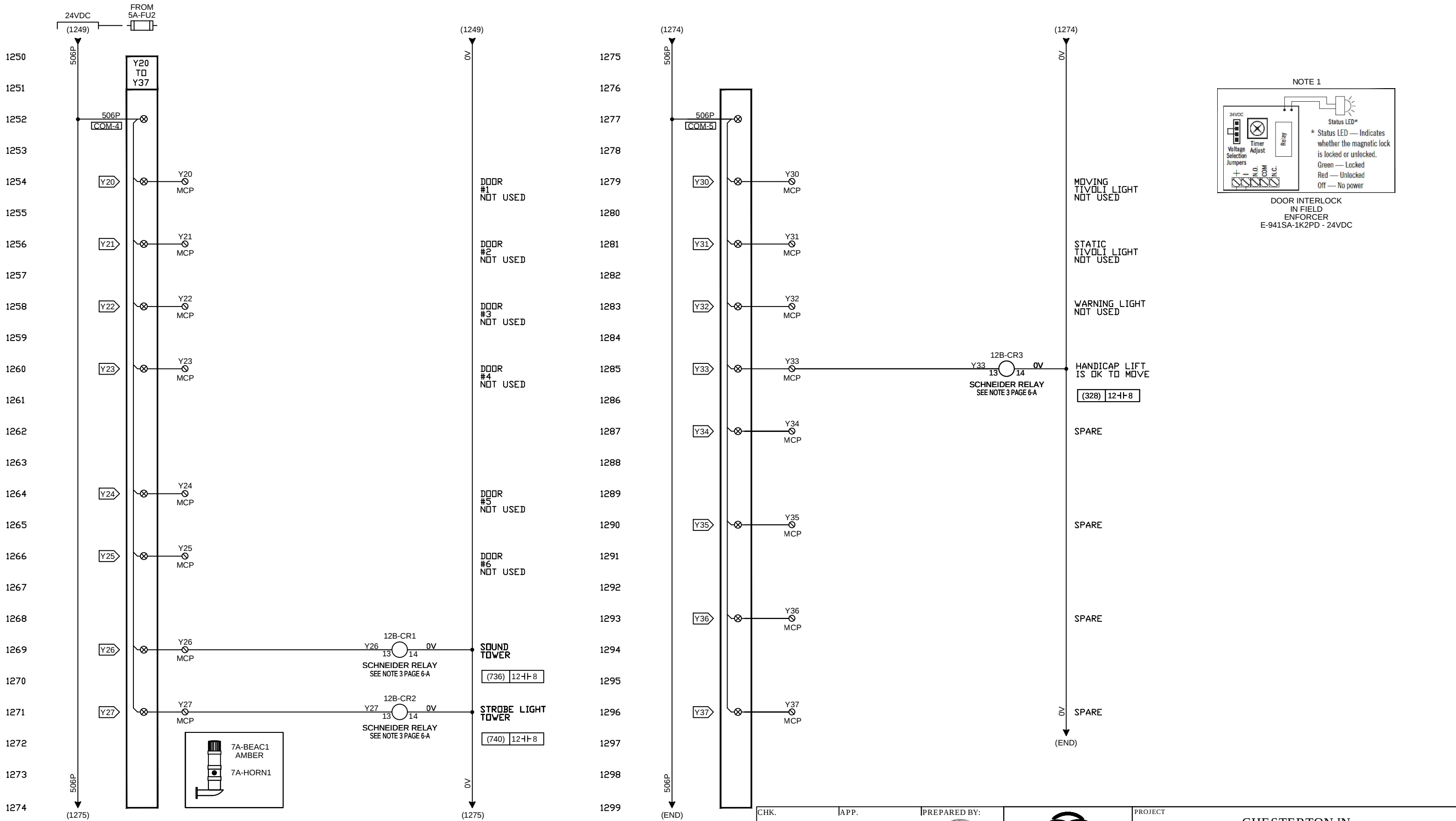








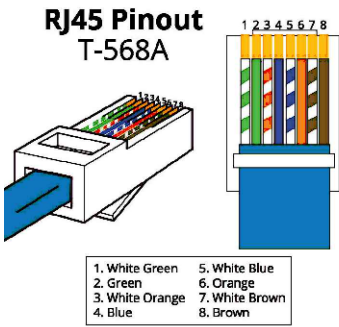
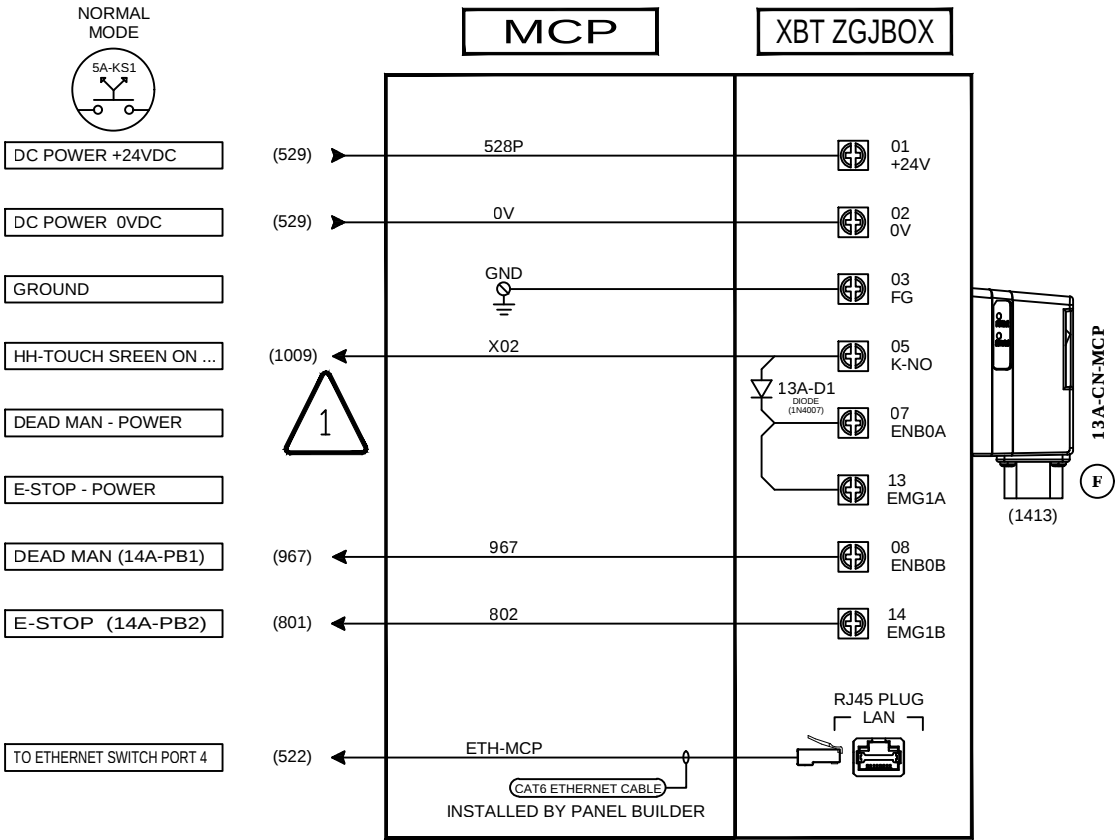
CHK.	APP.	PREPARED BY: 	 GALA SYSTEMS™	PROJECT CHESTERTON,IN CHESTERTON HIGHSCHOOL						
				TITLE OUTPUT CARD Y00 TO Y17 DIAGRAM						
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2	AS BUID	2022-07-27	DGL
1	REMOVING EXTRA INPUT CARD ON PLC	2022-06-13	DGL
REV.	DESCRIPTION	DATE (YYYY-MM-DD)	BY

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				TITLE OUTPUT CARD Y20 TO Y37 DIAGRAM				
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			PREPARED BY S.T.FERRAND P.ENG.	CHK.	APP.	DRAWING NO. 101-12249-820		PAGE 12B / 24

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2	AS BUID	2022-07-27	DGL
1	REMOVING EXTRA INPUT CARD ON PLC	2022-06-13	DGL
REV.	DESCRIPTION	DATE (YYYY-MM-DD)	BY

CHK.	APP.	PREPARED BY: 	 GALA SYSTEMSSM	PROJECT CHESTERTON,IN CHESTERTON HIGH SCHOOL					
				TITLE CONNECTORS PINOUT DIAGRAM					
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			PREPARED BY S.T.FERRAND P.ENG.	CHK.	APP.	DRAWING NO. 101-12249-820		PAGE 13A / 24	

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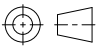
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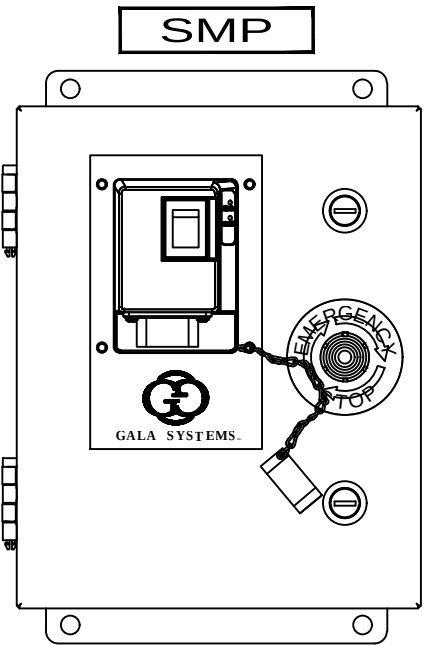
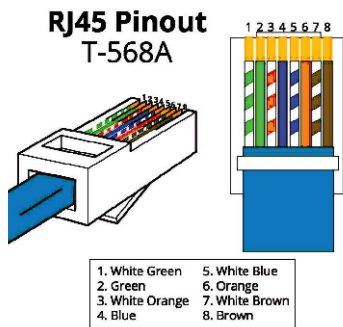
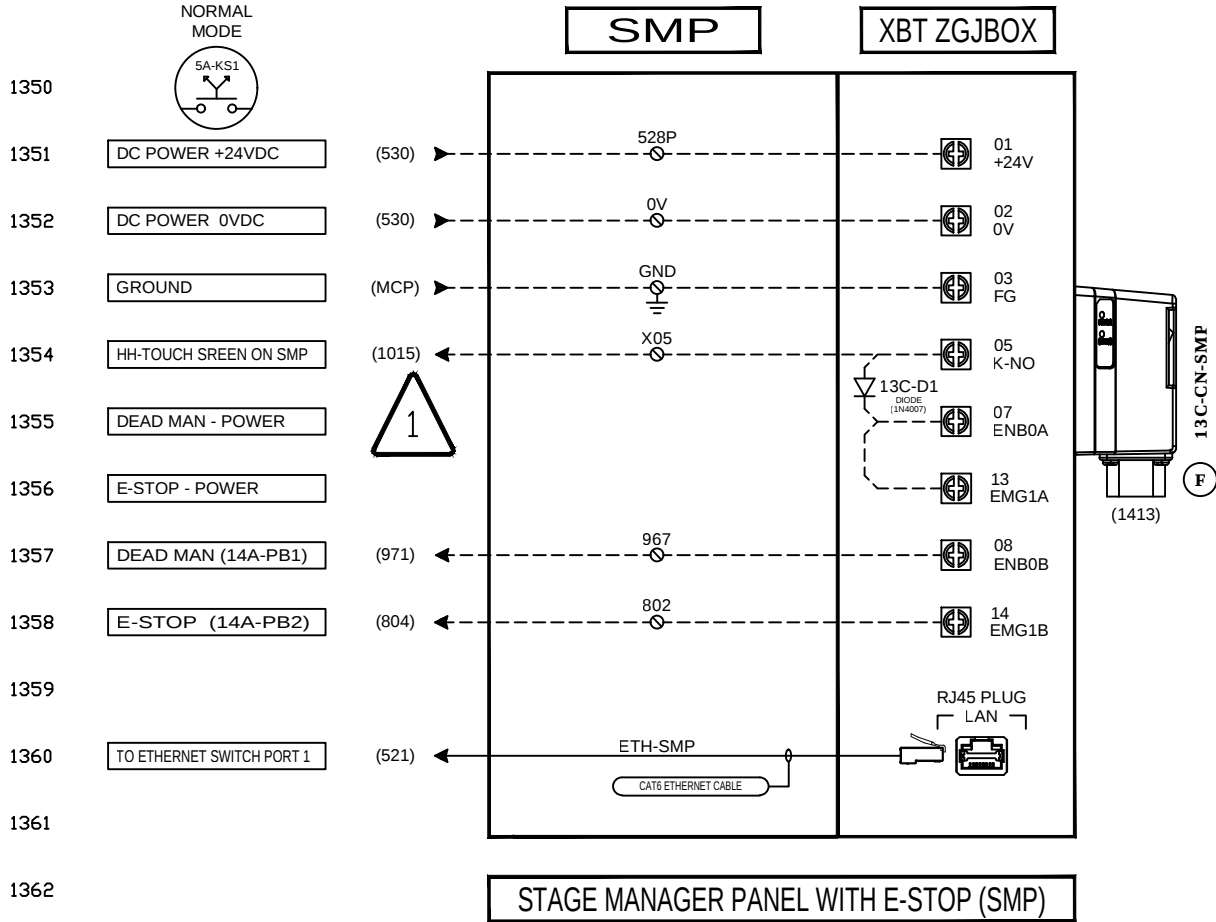
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FUTURE USE

2	AS BUID	2022-07-27	DGL
1	REMOVING EXTRA INPUT CARD ON PLC	2022-06-13	DGL
REV.	DESCRIPTION	DATE (YYYY-MM-DD)	BY

CHK.	APP.	PREPARED BY:	 GALA SYSTEMS INC.	PROJECT CHESTERTON,IN CHESTERTON HIGHSCHOOL			
					TITLE FUTURE USE		
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		PREPARED BY S.T.FERRAND P.ENG.	CHK.	APP.	DRAWING NO. 101-12249-820	PAGE 13B / 24	



2	AS BUID	2022-07-27	DGL
1	REMOVING EXTRA INPUT CARD ON PLC	2022-06-13	DGL
REV.	DESCRIPTION	DATE (YYYY-MM-DD)	BY

CHK.	APP.	PREPARED BY:  David G. Lebreux 2022-04-20	 GALA SYSTEMS [™]	PROJECT CHESTERTON,IN CHESTERTON HIGHSCHOOL				
				TITLE SMP WALL MOUNT SOCKET WITH E-STOP				
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			PREPARED BY S.T.FERRAND P.ENG.	CHK.	APP.	DRAWING NO. 101-12249-820		PAGE 13C / 24

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**HAND-HELD
TOUCH-SCREEN
14A-HH-TS**

SEE DRAWINGS
146-HH-863-21
FOR MORE DETAILS

MANUAL MODE KEY
14A-KS1

E-STOP
14A-PB2

GRIP SWITCH
DEADMAN
14A-PB1

IP ADRESS: 172.20.1.6
MASK: 255.255.255.0

MODEL: XBT GH2460
SCHNEIDER

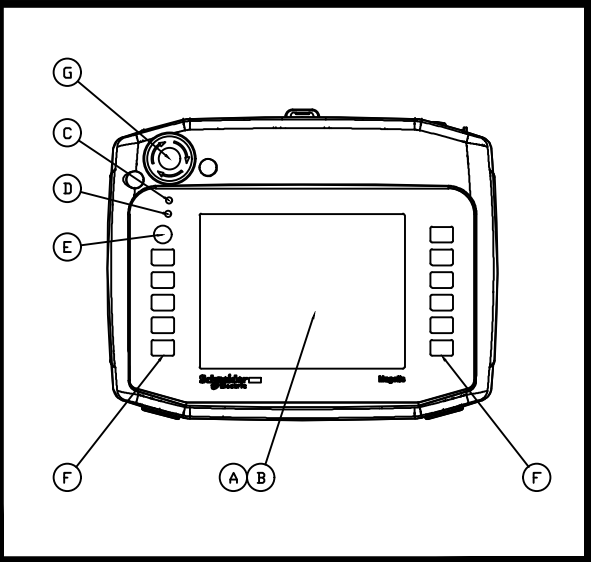
13C-CN-SMP (1356) WALL MOUNT SOCKET (SMP)
13A-CN-MCP (1306) MCP SOCKET

TO

14A-CN-HH-TS

10m CABLE
XBT ZGHL10

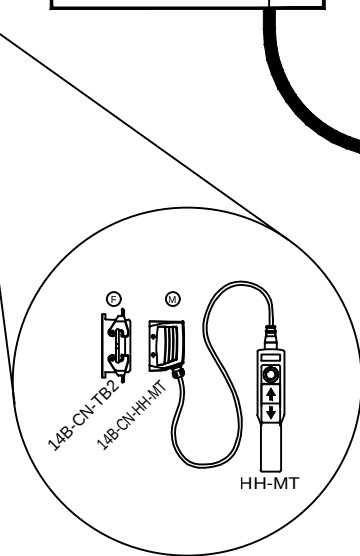
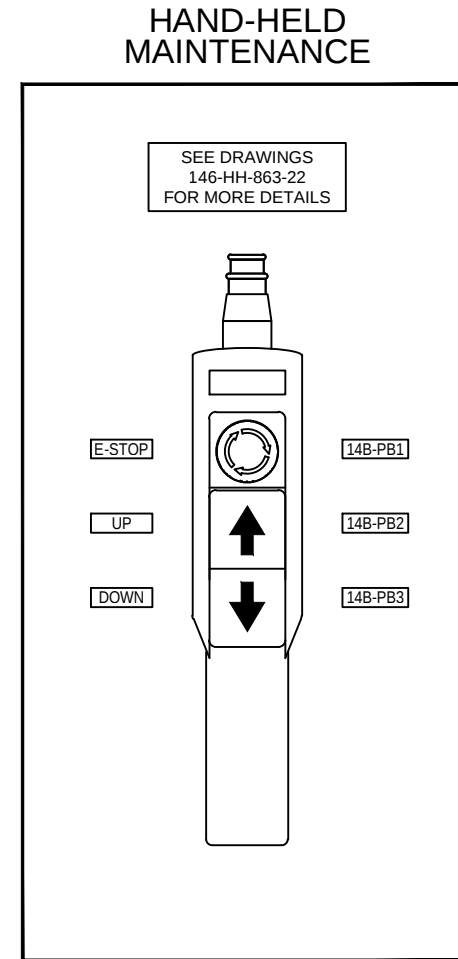
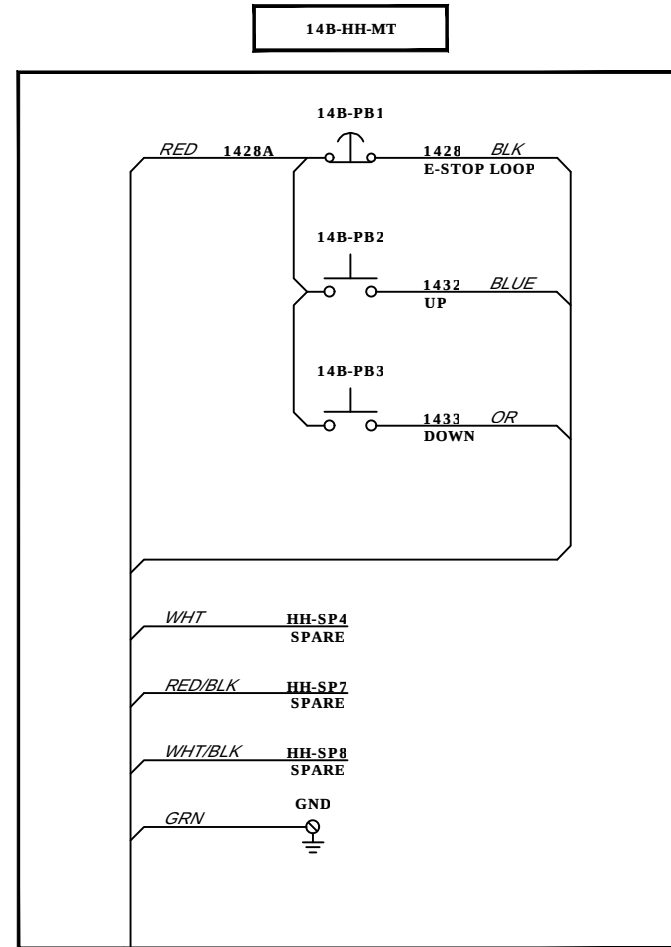
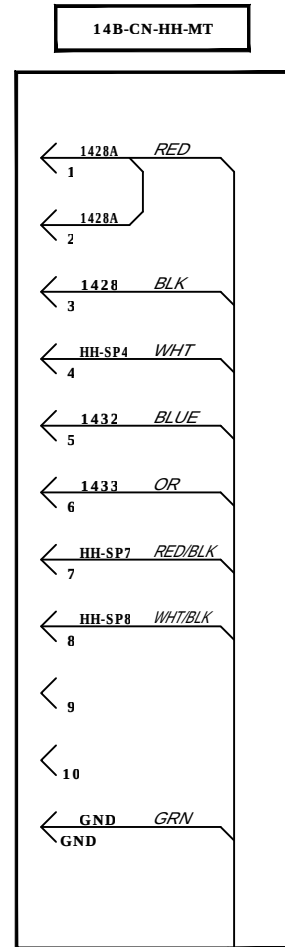
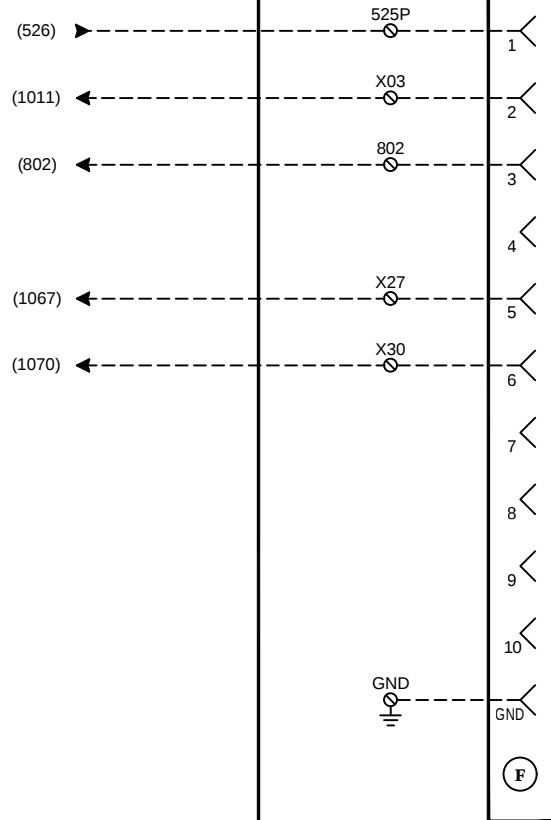
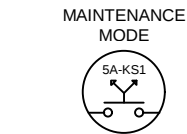
Part	Description
A	Display: displays user created screens and remote equipment variables.
B	Touch panel: performs screen change operations and sends data to the host PLC
C	Status LED: ● Green ON: normal operation (power is ON) or OFFLINE operation. ● Orange ON: backlight burnout is detected. ● Orange (blinking): during software startup. ● Not lit: power is OFF.
D	Operation LED: ● Green ON: the Operation switch is ON. ● Not lit: the Operation switch is OFF.
E	Operation Switch: When this switch is pressed, the XBT GH unit can accept input from the touch screen and function switches.
F	Function Switches: Functions are set up with the screen design software. For details see the Vijeo-Designer online help.
G	Emergency Switch



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				TITLE HAND-HELD DIAGRAM				
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			PREPARED BY S.T.FERRAND P.ENG.	CHK.	APP.	DRAWING NO. 101-12249-820	PAGE 14A / 24	

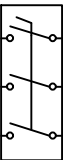
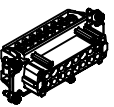
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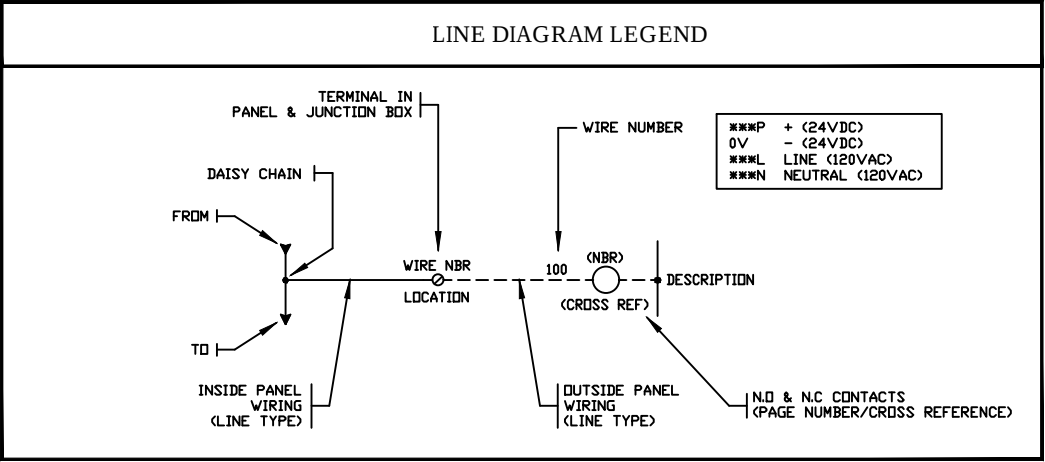


8C/16 SOOW TECHNOFLEX TYPE 575V 90°C - 20 Ft. (6m)

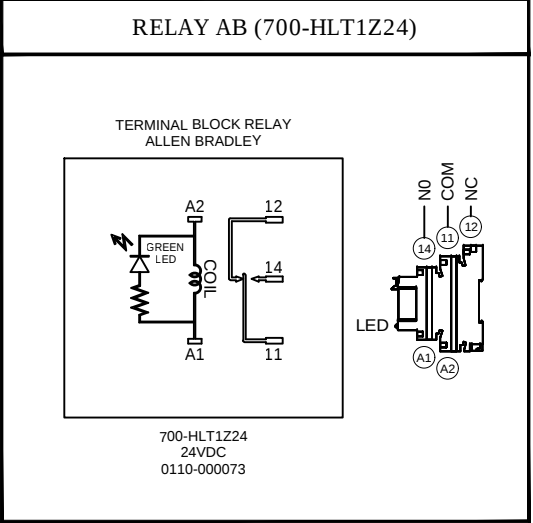
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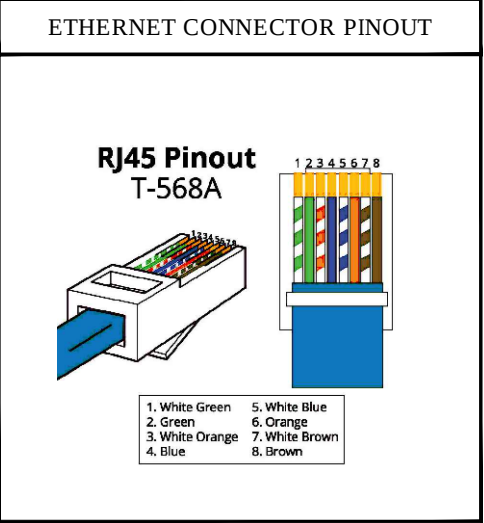
SYMBOL LEGEND SCHEDULE			
NOTE: SYMBOL SCHEDULE IS FOR REFERENCE ONLY, NOT EVERY SYMBOL SHOWN HERE WILL BE USED ELSE WHERE IN THE CONSTRUCTION DOCUMENTS.			
	RELAY OR CONTACTOR (CR) OR (C) NORMALLY CLOSED CONTACT		WIRE-NUT (MARRETTE)
	RELAY OR CONTACTOR (CR) OR (C) NORMALLY OPENED CONTACT		CONTROL TERMINAL
	COIL - RELAY, (CR)		POWER TERMINAL
	COIL - CONTACTOR, (C)		PLC INPUT
	BREAKER (CB)		PLC OUTPUT
	FUSE (FU)		DISCONNECT SWITCH
	PILOT LIGHT (PL)		TRANSFORMER (T)
	KEY SWITCH (KS)		ALARM / HORN / KLAXON
	EMERGENCY STOP WITH (PB)		ASTRAGAL TAPE SWITCH
	ILLUMINATED LIGHT		RESISTOR (R)
	LIMIT SWITCH NORMALLY OPENED (LS)		CONNECTOR (CN)
	LIMIT SWITCH NORMALLY CLOSED (LS)		
	DOOR LOCK, MAGNETIC SWITCH (SOL)		
	DOOR LOCK, MAGNETIC SOLENOID (SOL)		
	GATE MAGNETIC SWITCH (LS)		



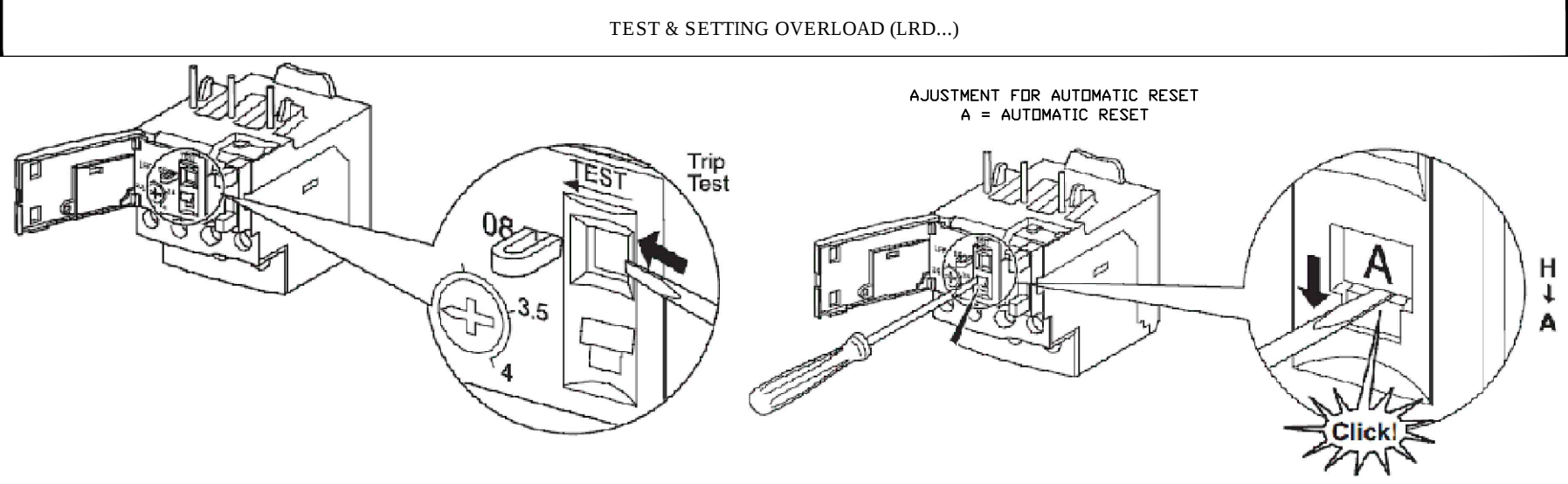
NOTE 1



NOTE 2



NOTE 3



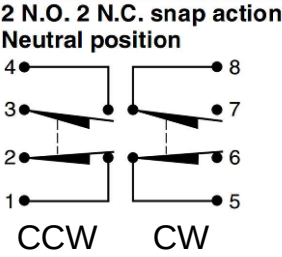
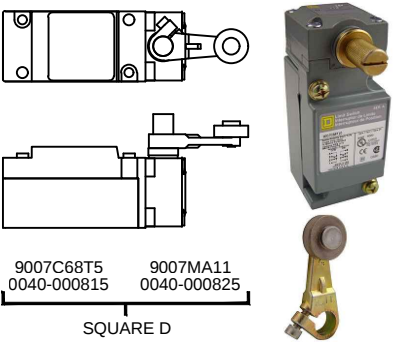
JUNCTION BOX LEGEND	
MCP	MAIN CONTROL PANEL
HH-TS	HAND-HELD TOUCH SCREEN STATION
HH-MT	HAND-HELD MAINTENANCE STATION
DSW-...	DISCONNECT SWITCH (POWER)
TB2	PIT TERMINAL BOX (CONTROL)
ENC	ENCODER JUNCTION BOX
LJB	LIFT JUNCTION BOX
SMP	STAGE MANAGER PANEL
LSK	LIFT SOCKET JUNCTION BOX
WSK-...	WALL SOCKET JUNCTION BOX
MA-...	MOVING ASTRAGAL JUNCTION BOX
TR-...	TRAVEL JUNCTION BOX
TP-...	TOP PLATE JUNCTION BOX
DL-...	DOOR LOCK JUNCTION BOX
EE-...	EMERGENCY EXIT PUSH BUTTON
KS-...	KEY SWITCH BOX
ES-...	EMERGENCY STOP PUSH BUTTON
SA-...	STATIC ASTRAGAL JUNCTION BOX
HLI	HANDICAP LIFT INTERLOCK
GA-...	GATE JUNCTION BOX

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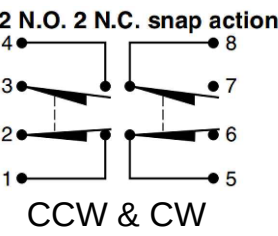
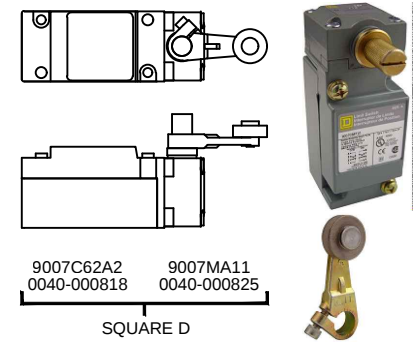
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				TITLE ELECTRICAL SYMBOL SCHEDULE AND GENERAL INFORMATION					
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TRAVEL & OVERTRAVEL SWITCHES
ON LIFT

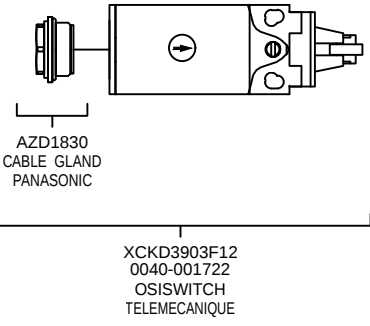
(TRAVEL UP & DOWN)



(OVERTRAVEL UP & DOWN)

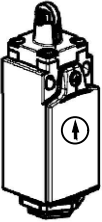
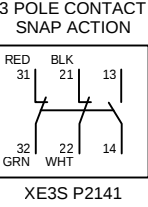


SPIRALIFT TOP PLATE SWITCH



NOT TO SCALE

x4



⤴ POSITIVE OPERATION
POSITIVE OPENING SIMPLY MEANS
THAT THE NORMALLY CLOSED (NC) TERMINAL IS FORCED OPEN,
EVEN IN THE EVENT OF "WELDING" OF THE CONTACTS
DUE TO AN OVERLOAD SITUATION

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			TITLE SWITCHES INFORMATION			
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