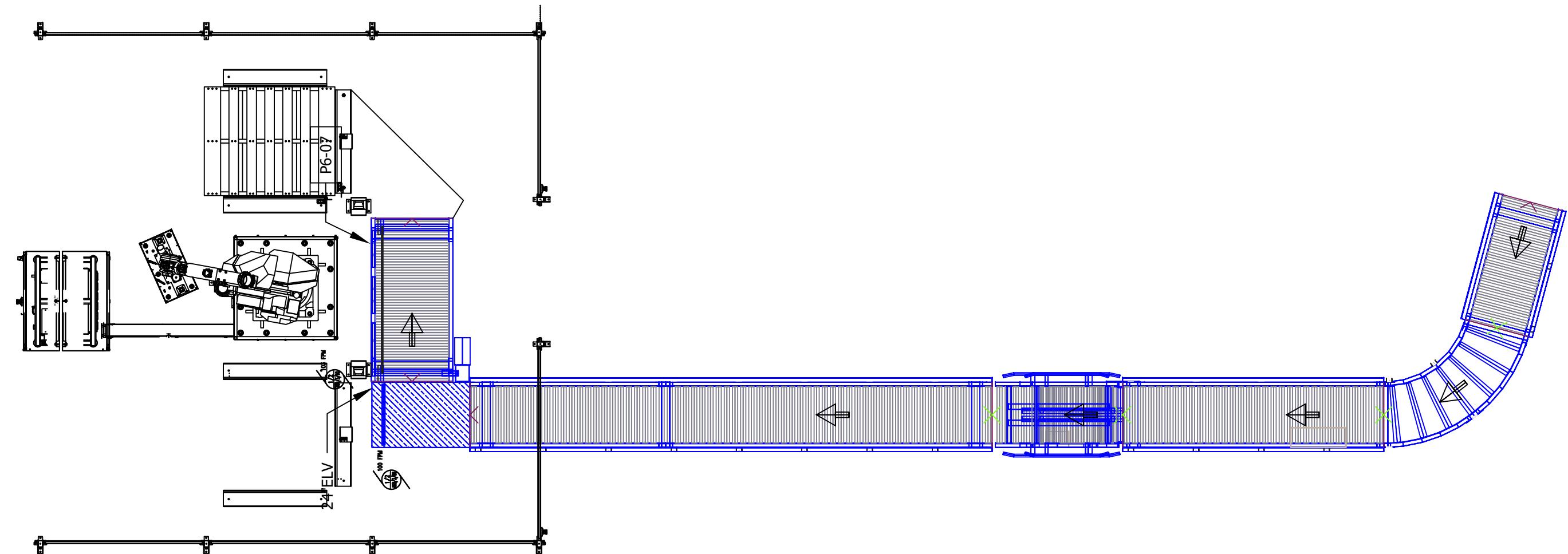




# TWIST LINE #6 PALLETIZER



Rev.003 DESCRIPTION xxx xxx xxx DATE

Rev.002 DESCRIPTION xxx xxx xxx DATE

Rev.001 DESCRIPTION xxx xxx xxx DATE

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CUSTOMER  
Hershey (Y&S)

DRAWING DESCRIPTION #####

SIZE DRAWING NUMBER ##### REV 000

PROJECT NUMBER 9015293 DRAWN BY CHK BY APPR BY SCALE TMK TMK TMK NTS

PROJECT NAME Line #5 Palletizer DATE 6/17/2024 SHEET ##### of #####

Revisions

ANSI Symbol	ANSI Code	IEC 61346-2 Symbol	IEC Code	Description
-+ -	CON	- /	KM	Contactor contact open
+ -	CON	- /	KM	Contactor contact closed
-+ -	CR	- /	KA	Relay contact open
+ -	CR	- /	KA	Relay contact closed
○○○	TR	- /	KT	Timed contact, N.O. – on delay (TDE)
○○○	TR	- /	KT	Timed contact, N.C. – on delay (TDE)
○○○	TR	- /	KT	Timed contact, N.C. – off delay (TDD)
○○○	TR	- /	KT	Timed contact, N.O. – off delay (TDD)
●○○	SS	- /	SA	Selector switch
○○○	PB	- /	SB	Pushbutton N.O.
○○○	PB	- /	SB	Pushbutton N.C.
○○○	PB	- /	SB	Pushbutton mushroom head
○○○	FL	- /	SL	Liquid level switch
○○○	FLS	- / F	SF	Flow switch
○○○	PS	- / P	SP	Pressure switch
○○○	TS	- /	ST	Temperature switch
○○○	LS	- /	SQ	Limit switch
○○○	PRS	- /	SQ	Proximity switch
○○○	LT	- / A	HL	Indicating light
○○○	CR	- /	KA	Control relay coil
○○○	CON	- /	KM	Contactor coil
○○○	M	- /	KM	Motor starter coil
○○○	TR	- / -	KA	Timer coil
○○○	SOL	- / -	YV	Solenoid coil
○○○	CTR	- / -	EC	Electromechanical counter
○○○	CB	- / -	QF	Circuit breaker
○○○	T1	○ ○	X1	Terminals (reference)
○○○		○ ○	XT	Fused terminals (reference)
○○○	FU	- / -	FU	Fuse, protective

Designation	Device
ABE	Alarm or Announcer Bell
ABU	Alarm or Announcer Buzzer
AH	Alarm or Announcer Horn
AM	Ammeter
AT	Autotransformer
CAP	Capacitor
CB	Circuit Breaker
CI	Circuit Interrupter
CNC	Computerized Numerical Controller
CON	Contactor
Cos	Cable-Operated (Emergency) Switch
CPU	Central Processing Unit
CR	Control Relay
CRA	Control Relay, Automatic
CRH	Control Relay, Manual
CRL	Control Relay, Latch
CRM	Control Relay, Master
CRT	Cathode Ray Tube, Monitor or Video Display Unit
CRU	Control Relay, Unlatch
CS	Cam Switch
CT	Current Transformer
CTR	Counter
D	Diode
DISC	Disconnect Switch
DISP	Display
DR	Drive
EMO	Emergency (Machine) Off Device
END	Encoder
ESTOP	Emergency Stop
FLD	Field
FLS	Flow Switch
FS	Float Switch
FTS	Foot Switch
FU	Fuse
GEN	Generator
GRD, GND	Ground
GUI	Graphical User Interface
HM	Hour Meter
HTR	Heating Element
IC	Integrated Circuit
INST	Instrument
IOL	Instantaneous Overload
I/O	Input/Output Device
L	Inductor
LED	Light Emitting Diode
LS	Limit Switch
LT	Pilot Light
LVDT	Linear Variable Differential Transformer
M	Motor Starter
MD	Motion Detector
MF	Motor Starter – Forward
MG	Motor – Generator
MR	Motor Starter – Reverse
MTR	Motor

Designation	Device
OIT	Operator Interface Terminal
OL	Overload Relay
PB	Pushbutton
PBL	Pushbutton, Illuminated
PC	Personal Computer
PCB	Printed Circuit Board
PEC	Photoelectric Device
PL	Plug
PLC	Programmable Logic Controller
POT	Potentiometer
PRS	Proximity Switch
PS	Pressure Switch
PWS	Power Supply
Q	Transistor
QTM	Thermistor
REC	Rectifier
RECP	Receptacle
RES	Resistor
RH	Rheostat
S	Switch
SCR	Silicon Controlled Rectifier
SOL	Solenoid
SNSR	Sensor
SR	Safety Relay
SS	Selector Switch
SSL	Selector Switch, Illuminated
SSR	Solid State Relay
ST	Saturable Transformer
SUP	Suppressor
SYN	Synchro or Resolver
T	Transformer
TACH	Tachometer Generator
TAS	Temperature-Actuated Switch
TB	Terminal Block
T/C	Thermocouple
TR	Timer Relay
TSDR	Transducer
TWS	Thumbwheel Switch
V	Electronic Tube
VAR	Varistor
VM	Voltmeter
VR	Voltage Regulator
VS	Vacuum Switch
WLT	Work light
WM	Wattmeter
X	Reactor
ZSS	Zero Speed Switch

**NOTE: ALL** Control wire will be as follows unless otherwise noted:

120VAC - 16AWG MTW Red(Hot) & White(Neutral)

5 to 24VDC - 18AWG MTW Blue(Positive +) & White/Blue(Common -)

**NOTE: Symbols and Abbreviations are for reference ONLY.**

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CUSTOMER

Hershey (Y&S)

DRAWING DESCRIPTION

Symbols

SIZE D DRAWING NUMBER

REV 000

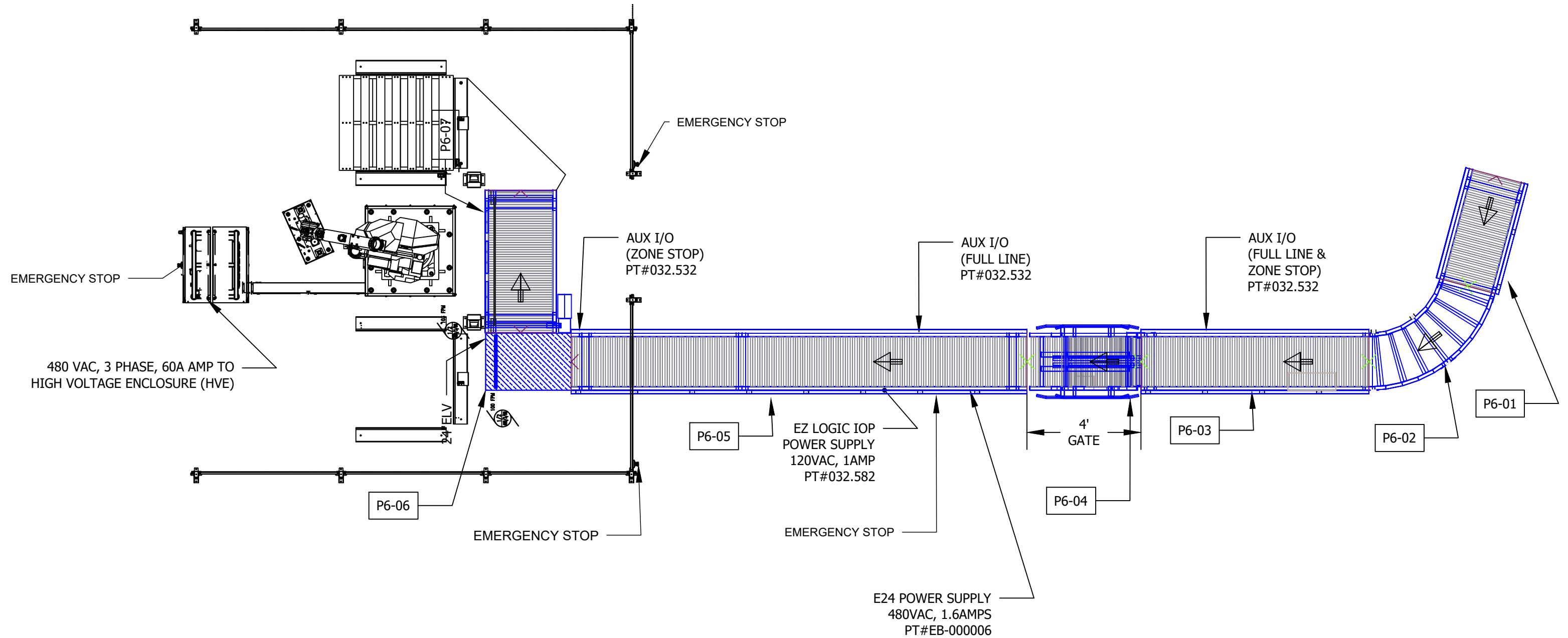
PROJECT NUMBER 9015293 DRAWN BY TMK CHK BY TMK APPR BY TMK SCALE NTS

PROJECT NAME Line #5 Palletizer DATE 6/17/2024 SHEET of

Revisions

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E_9015292_Title	6/4/2024	12:41:25 PM	
E_9015292_Symbols	6/4/2024	12:41:23 PM	
E_9015292_Index	6/4/2024	12:41:22 PM	
E_9015292_Floor_Layout	6/4/2024	12:41:20 PM	
E_9015292_Power	6/4/2024	12:41:19 PM	01
E_9015292_Power_2	6/6/2024	5:51:12 AM	02
E_9015292_120VAC	6/4/2024	12:41:19 PM	03
E_9015292_24VDC_Control_Power	6/5/2024	1:57:55 PM	04
E_9015292_VFD_STO	6/4/2024	12:41:17 PM	05
E_9015292_Area_Scanners	6/4/2024	12:41:17 PM	06
E_9015292_Safety_Relays	6/4/2024	12:41:17 PM	07
E_9015292_PLC_Layout	6/4/2024	12:41:15 PM	08
E_9015292_Dig_Inputs	6/5/2024	6:35:42 AM	09
E_9015292_Dig_Outputs	6/4/2024	12:41:14 PM	10
E_9015292_Safety_IO_Mujin	6/5/2024	6:38:22 AM	11
E_9015292_Robot_Controls	6/5/2024	6:38:21 AM	12
E_9015292_Mujin_IO	6/5/2024	10:35:35 AM	13
E_9015292_Estops_Safe_Keys	6/4/2024	12:41:11 PM	14
E_9015292_Ethernet_Topology	6/4/2024	12:41:11 PM	15

FILENAME	FILEDATE	TIME	SH
E_9015292_Terminal_Strip_Layout	6/5/2024	1:25:53 PM	16
E_9015292_Back_Panel_Layout_Dimension	6/4/2024	12:41:10 PM	17
E_9015292_Back_Panel_Layout	6/6/2024	5:52:13 AM	18
E_9015292_Enclosure_Layout_Power	6/4/2024	12:41:09 PM	19
E_9015292_Enclosure_Layout_Control	6/4/2024	12:41:09 PM	20
E_9015292_BOM	6/4/2024	1:56:19 PM	21
E_9015292_BOM_2	6/6/2024	7:30:02 AM	22
E_9015292_Blank_4	6/4/2024	1:46:52 PM	23
E_9015292_EOAT_Layout_Side_1	6/4/2024	12:41:05 PM	24
E_9015292_EOAT_Layout_Side_2	6/5/2024	9:58:41 AM	25
E_9015292_Blank_2	6/4/2024	1:46:52 PM	26
E_9015292_Enclosure_Entry_Points	6/4/2024	12:41:00 PM	27
E_9015292_Enclosures_Mounted	6/4/2024	12:40:59 PM	28
E_9015292_Field_Entry_Points	6/4/2024	12:40:57 PM	29
E_9015292_Blank_3	6/4/2024	12:40:57 PM	30
E_9015292_LCE_Wiring	6/4/2024	12:41:27 PM	31
E_9015292_LCE_Enclosure	6/4/2024	12:41:27 PM	32
E_9015292_LCE_Back_Panel	6/4/2024	12:41:27 PM	33
E_9015292_Blank	6/4/2024	12:41:27 PM	34



Rev.003				
Rev.002				
Rev.001				

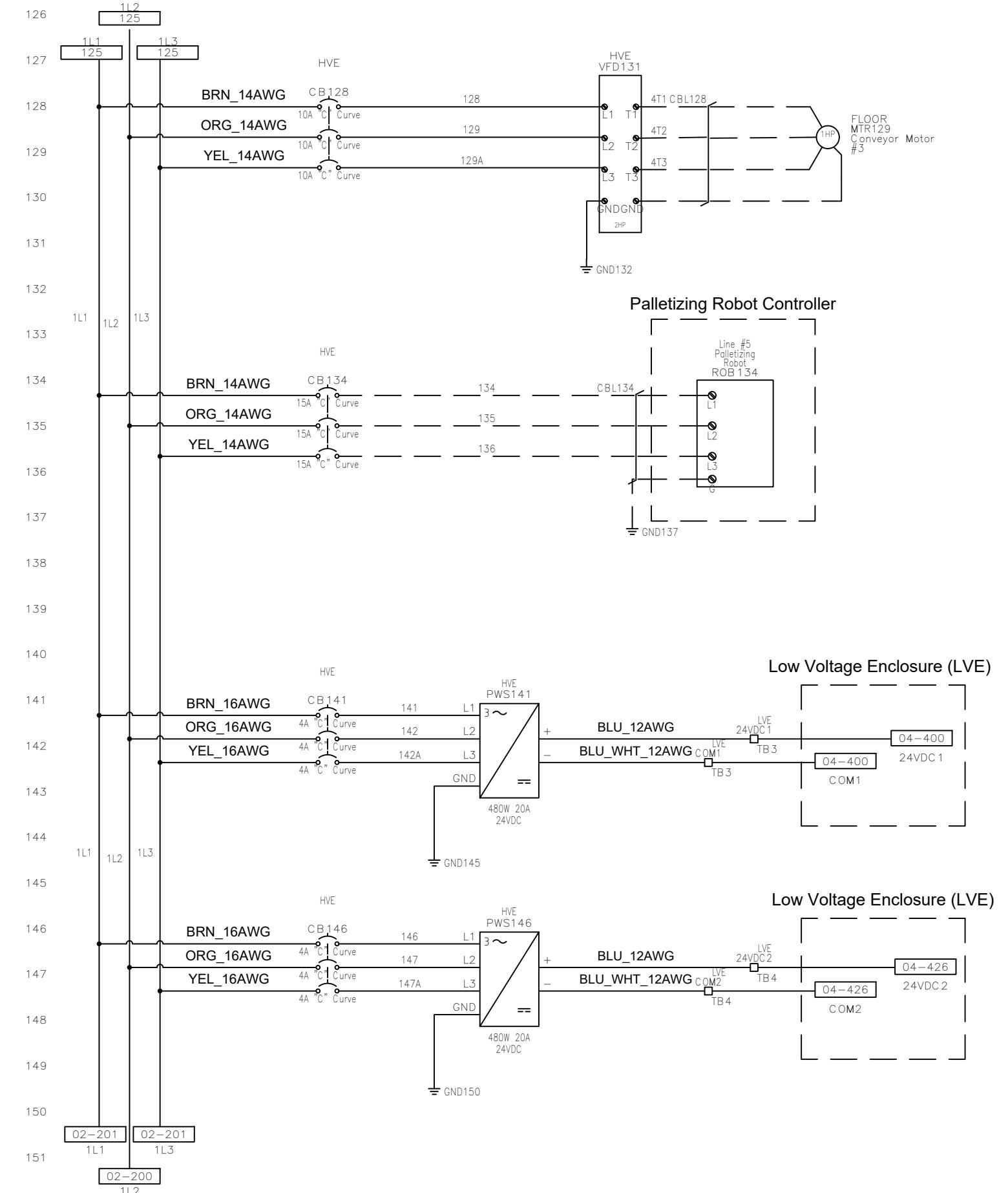
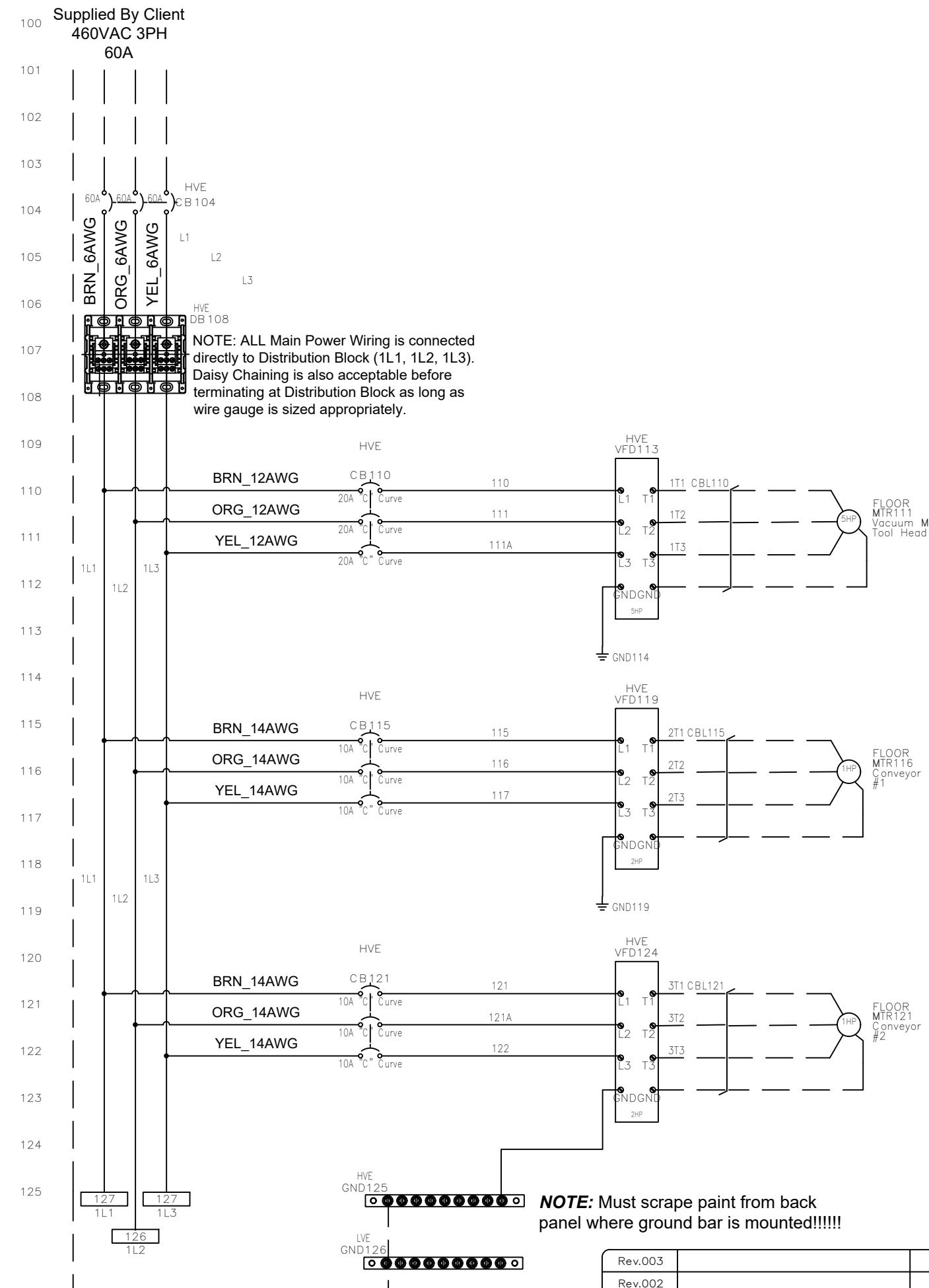
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CUSTOMER		DRAWING DESCRIPTION		
Hershey (Y&S)		Floor Layout		
SIZE	DRAWING NUMBER	REV		
D		000		
PROJECT NUMBER	9015293	DRAWN BY	CHK BY	APPR BY
		TMK	TMK	TMK
PROJECT NAME	Line #5 Palletizer	DATE	6/17/2024	SHEET
			of	



Revisions	Rev.003		
Rev.002			
Rev.001			

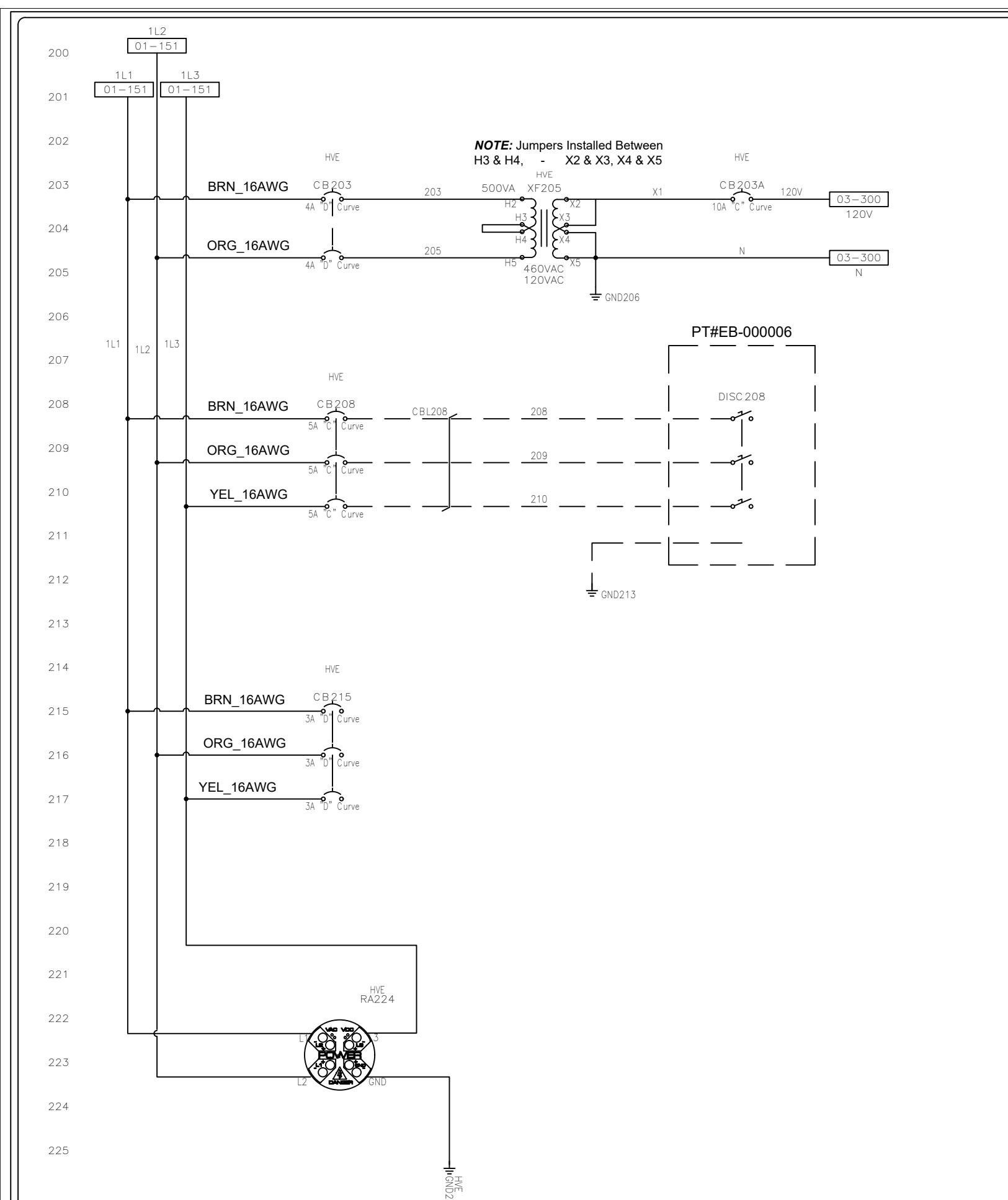
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MER Hershey (Y&S)		DRAWING DESCRIPTION <b>460VAC 3PH 60A Main Power</b>			
		SIZE <b>D</b>	DRAWING NUMBER <b>E-9015293-001</b>	REV <b>000</b>	
T NUMBER <b>9015293</b>		DRAWN BY <b>TMK</b>	CHK BY <b>TMK</b>	APPR BY <b>TMK</b>	SCALE <b>NTS</b>
T NAME <b>Line #5 Palletizer</b>		DATE <b>6/17/2024</b>	SHEET <b>01 of 34</b>		



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**NOTE: ALL Control wire will be as follows unless otherwise noted:**

120VAC - **16AWG** MTW Red(Hot) & White(Neutral)

5 to 24VDC - **18AWG** MTW Blue(Positive +) & White/Blue(Common -)

Rev.003				
Rev.002				
Rev.001				

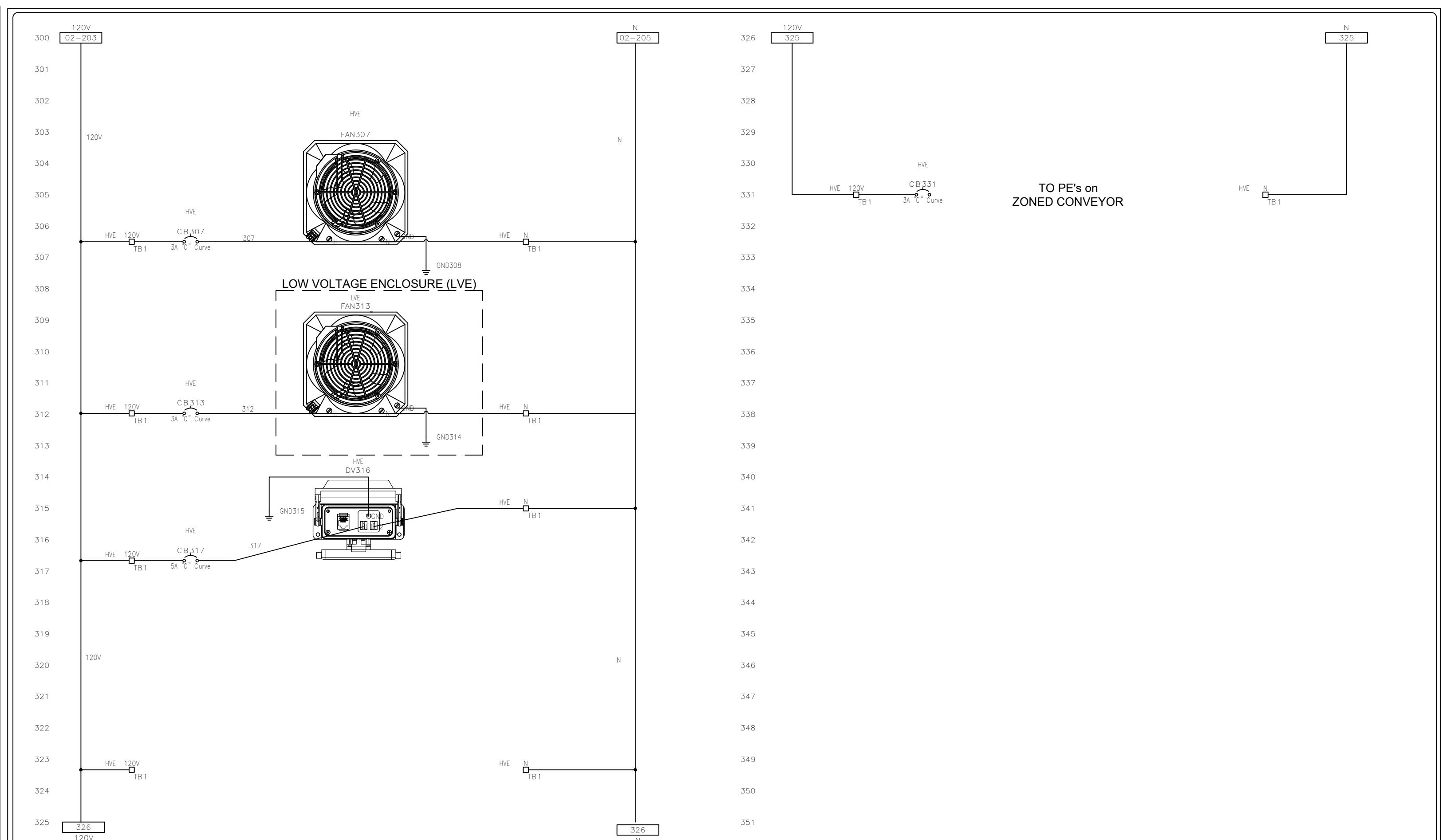
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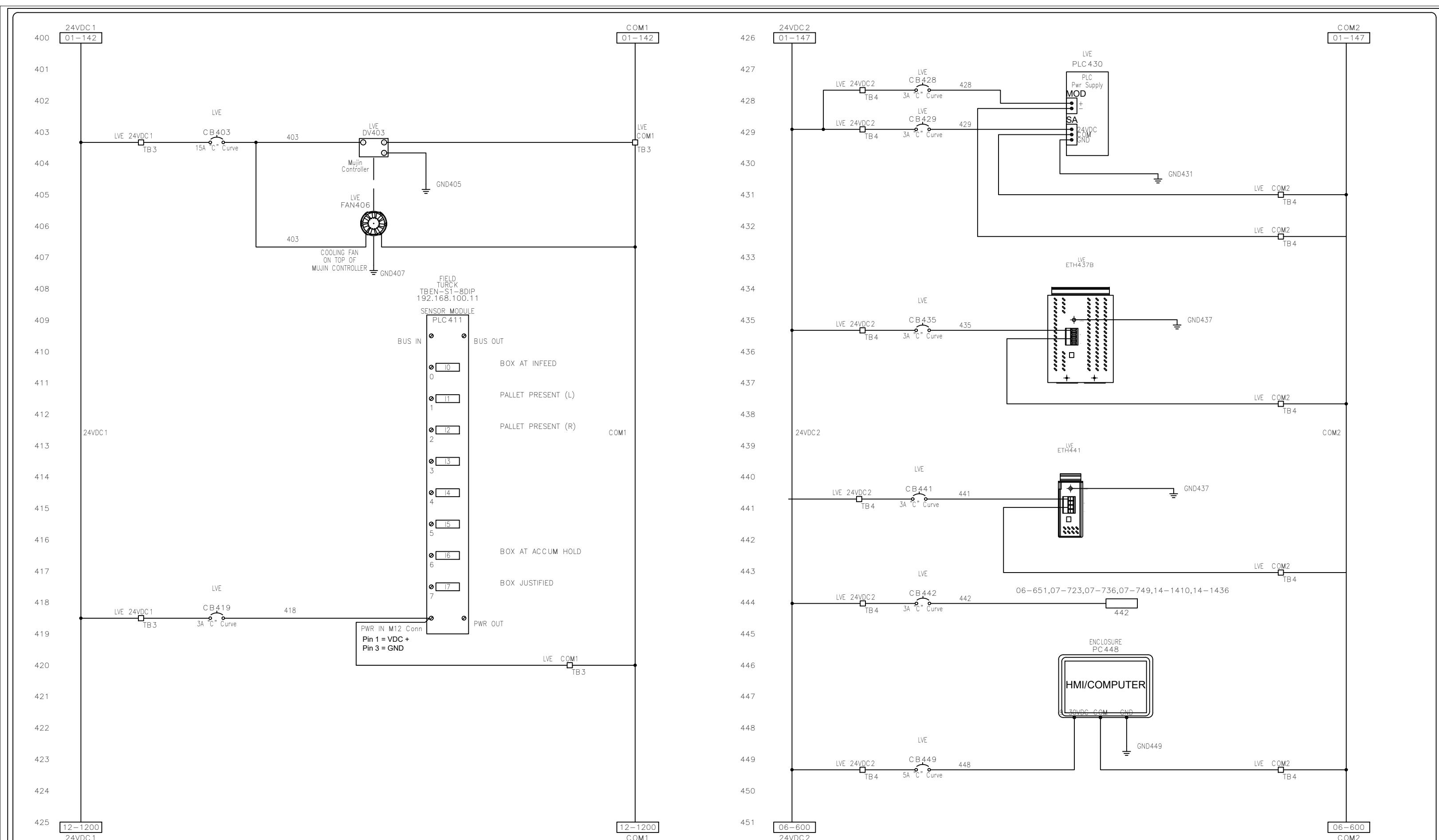
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CUSTOMER	Hershey (Y&S)	DRAWING DESCRIPTION
SIZE	DRAWING NUMBER	REVISION
	E-9015293-002	000
PROJECT NUMBER	9015293	
DRAWN BY	TMK	APPR BY
CHK BY	TMK	SCALE
	TMK	NTS
PROJECT NAME	Line #5 Palletizer	DATE
	6/17/2024	02 of 34



Rev.003						15 Flour Mill Rd York, Pa. 17406	Proprietary and Confidential	CUSTOMER	DRAWING DESCRIPTION
Rev.002						+1(717)849-0345	RG Group Industrial Automation	Hershey (Y&S)	120VAC Control Voltage
Rev.001							THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF RG-GROUP. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE EXPRESSED WRITTEN CONSENT OF RG-GROUP IS STRICTLY PROHIBITED	PROJECT NUMBER	SIZE
								9015293	DRAWN BY E-9015293-003 REV 000
								TMK	CHK BY TMK APPR BY TMK SCALE NTS
								Line #5 Palletizer	DATE 6/17/2024 SHEET 03 of 34



**NOTE: ALL** Control wire will be as follows unless otherwise noted

120VAC - **16AWG** MTW Red(Hot) & White(Neutral)  
6 to 24VDC - **18AWG** MTW Blue(Positive +) & White/Blue(Common -)

Rev.003						<b>15 Flour Mill Rd York, Pa. 17406</b>		<b>Proprietary and Confidential</b>	<b>CUSTOMER</b>	<b>DRAWING DESCRIPTION</b>		
Rev.002									Hershey (Y&S)	<b>24VDC Control Power</b>		
Rev.001										<b>SIZE</b>	<b>DRAWING NUMBER</b>	<b>REV</b>
						+1(717)849-0345				<b>D</b>	<b>E-9015293-004</b>	<b>000</b>
Revisions									<b>PROJECT NUMBER</b>	<b>DRAWN BY</b>	<b>CHK BY</b>	<b>APPR BY</b>
									<b>9015293</b>	<b>TMK</b>	<b>TMK</b>	<b>TMK</b>
									<b>PROJECT NAME</b>	<b>DATE</b>	<b>SHEET</b>	
									<b>Line #5 Palletizer</b>	<b>6/17/2024</b>	<b>04</b>	<b>of 34</b>

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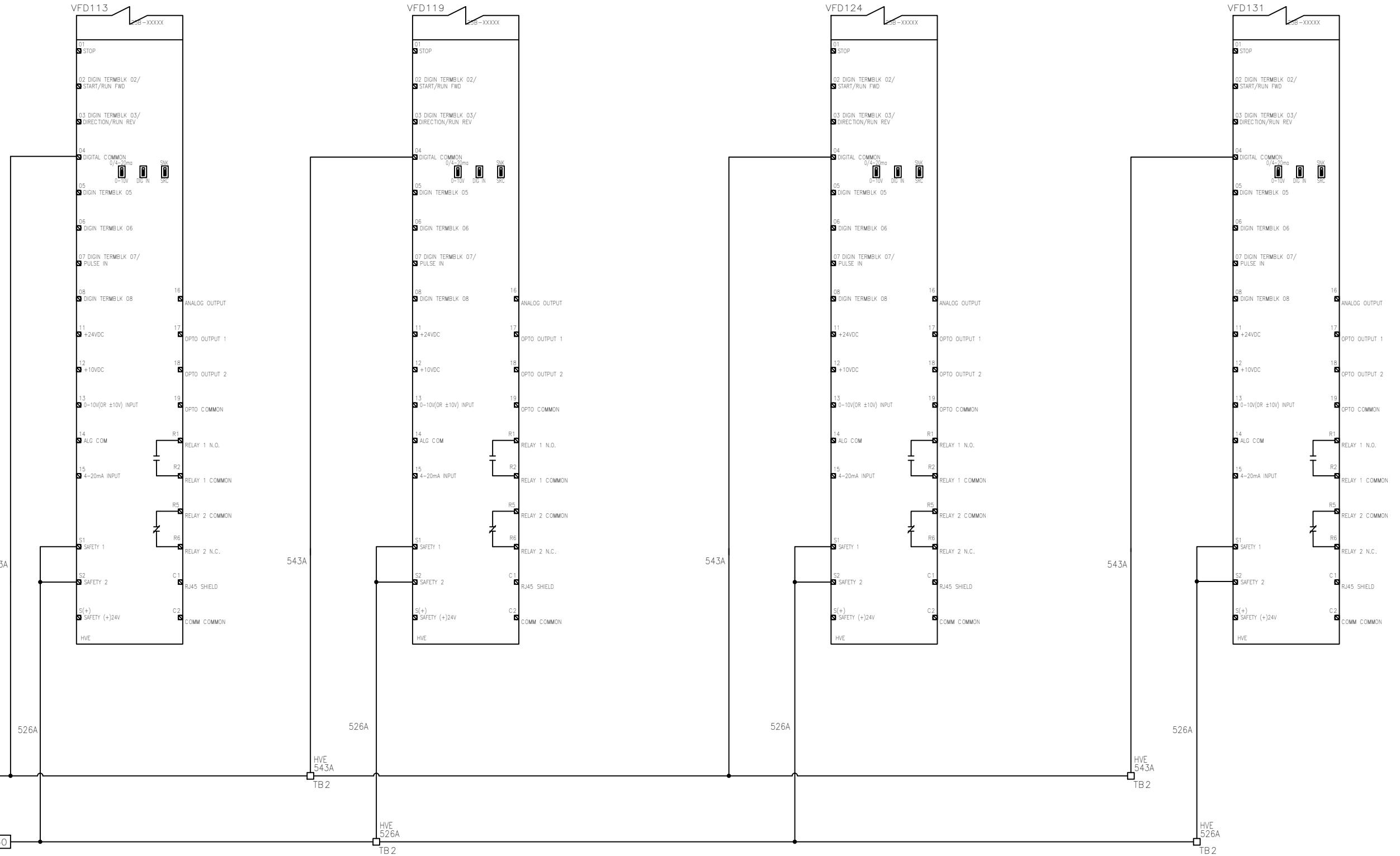
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**NOTE: ALL** Control wire will be as follows unless otherwise noted:

120VAC - 16AWG MTW Red(Hot) & White(Neutral)

5 to 24VDC - 18AWG MTW Blue(Positive +) & White/Blue(Common -)

Rev.003				
Rev.002				
Rev.001				

Revisions

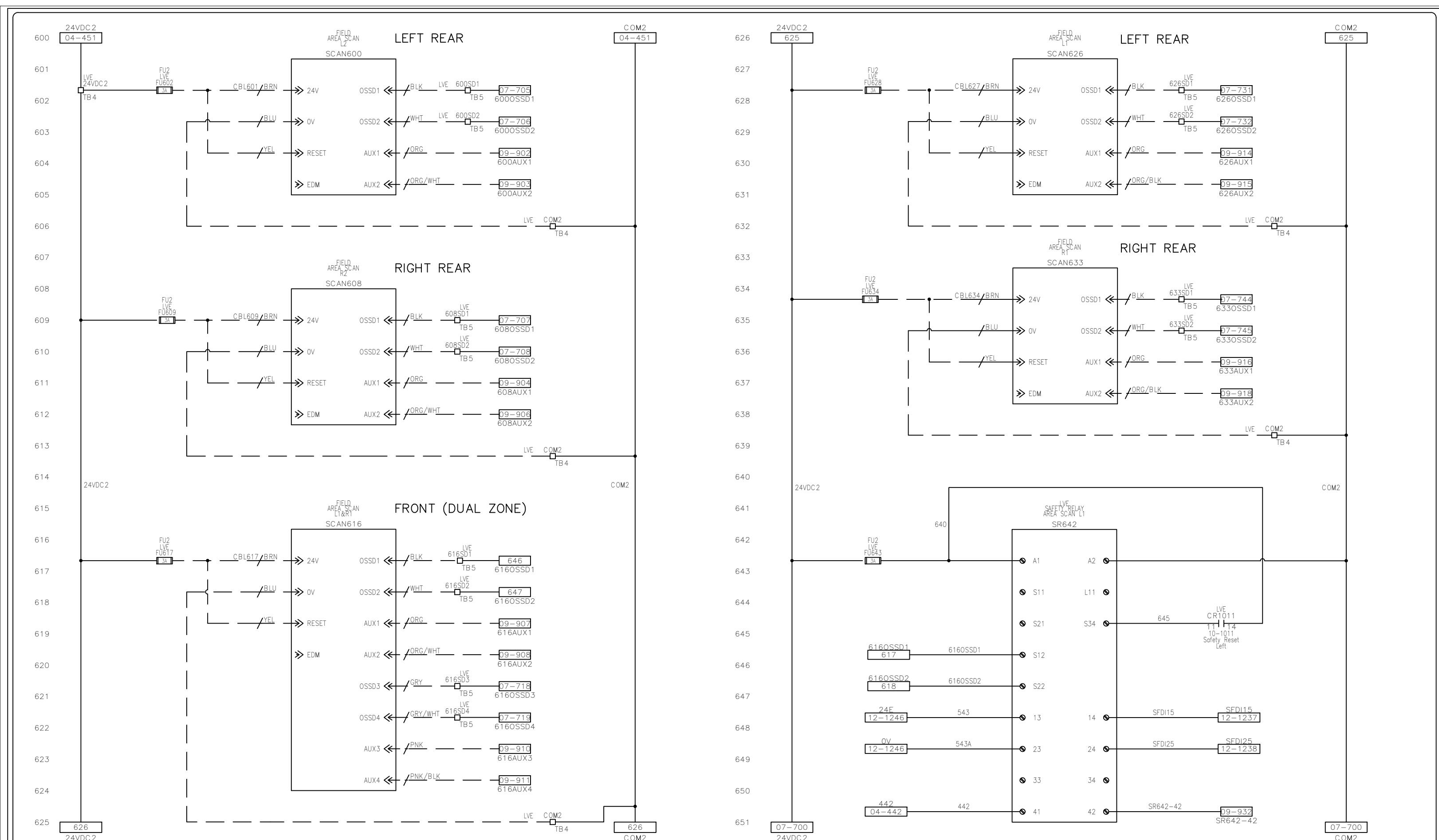
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CUSTOMER  
Hershey (Y&S)

SIZE	DRAWING NUMBER	DRAWING DESCRIPTION		
		REV	E-9015293-005	000
D	TMK	CHK BY	APPR BY	SCALE
	HVE	TMK	TMK	NTS
PROJECT NAME	9015293			
PROJECT NAME	Line #5 Palletizer	DATE	6/17/2024	05 of 34



**NOTE: ALL** Control wire will be as follows unless otherwise noted

120VAC - **16AWG** MTW Red(Hot) & White(Neutral)

5 to 24VDC - **18AWG** MTW Blue(Positive +) & White/Blue(Common Ground)

Rev.003		
Rev.002		
Rev.001		

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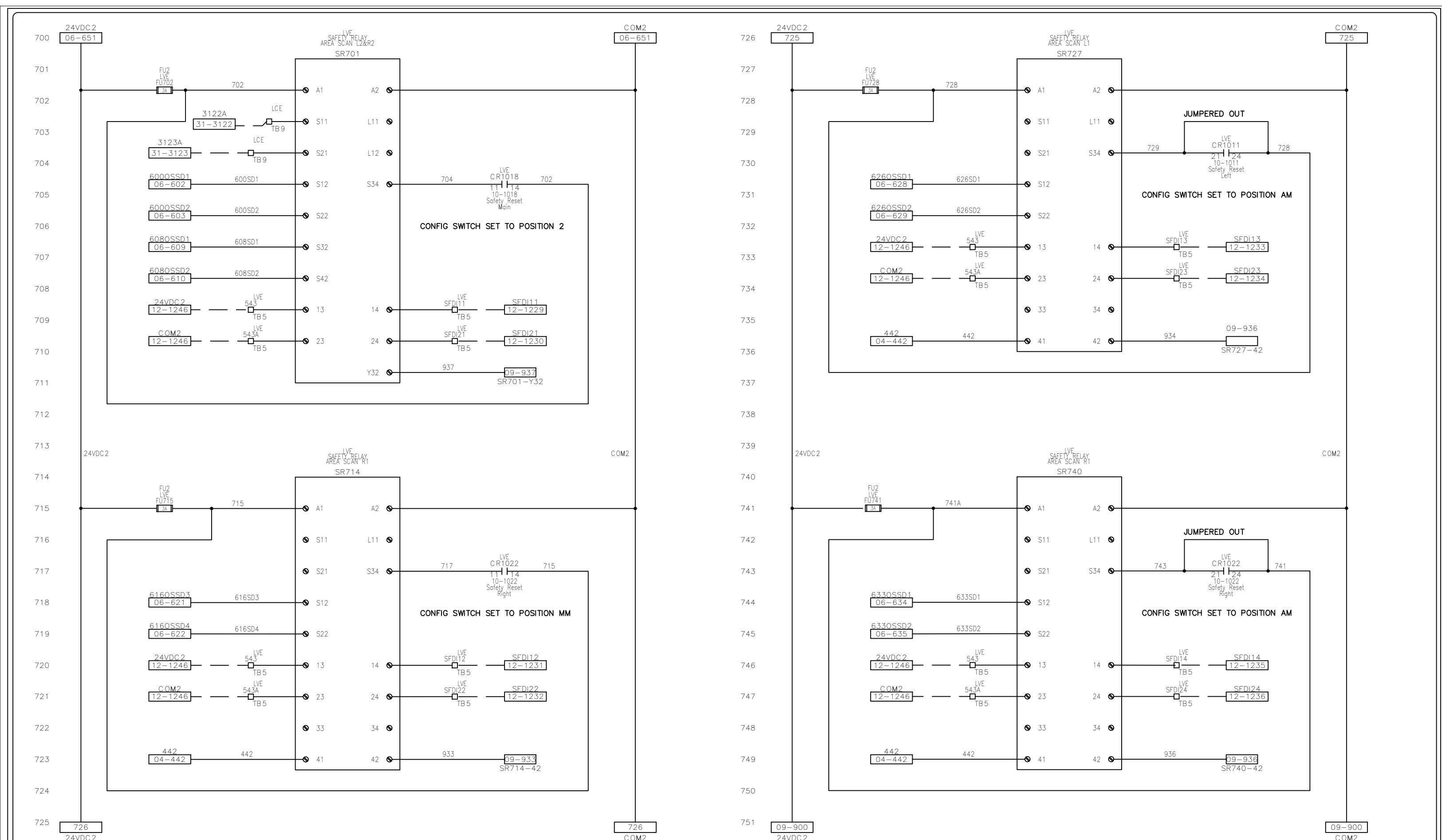
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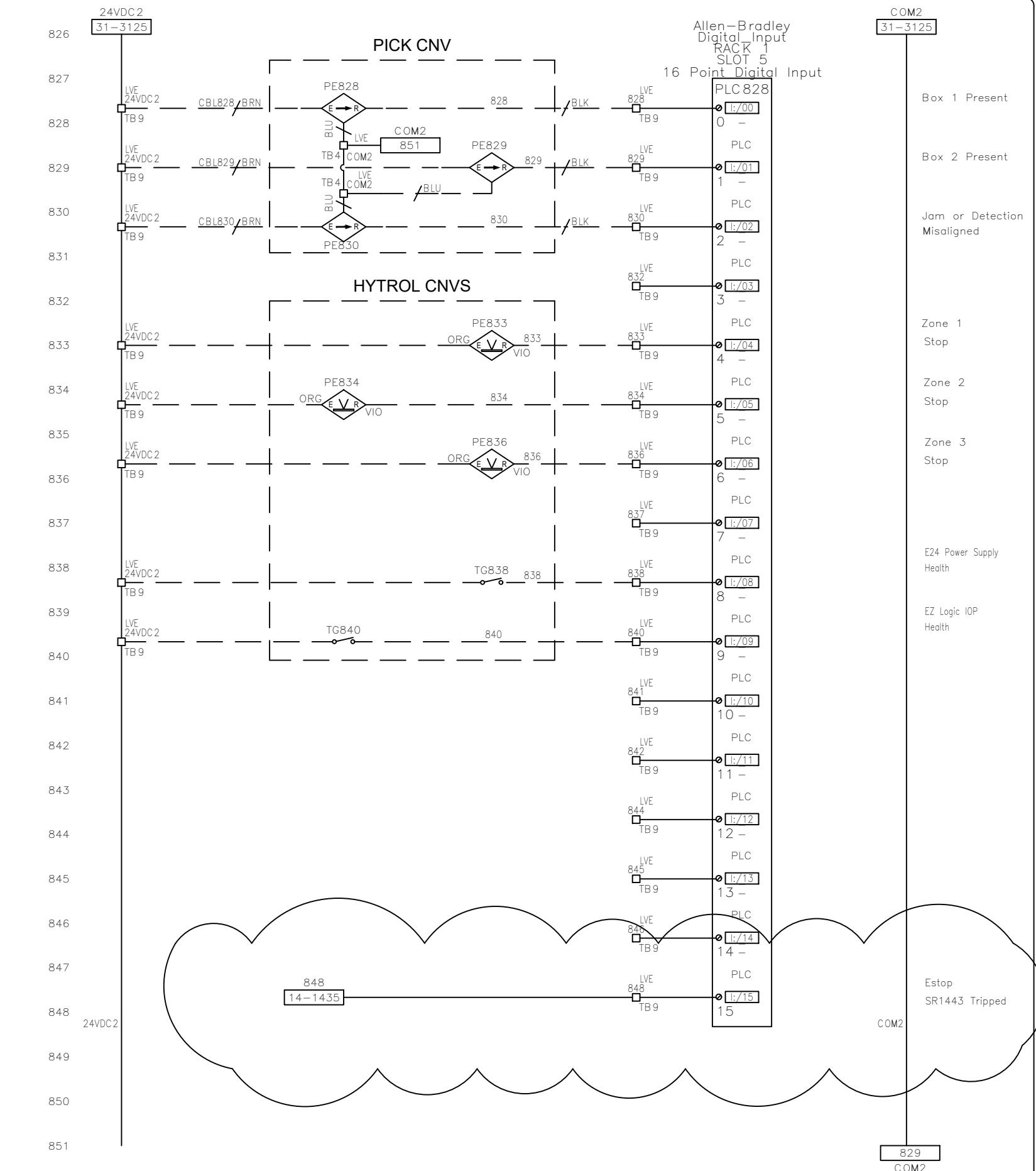
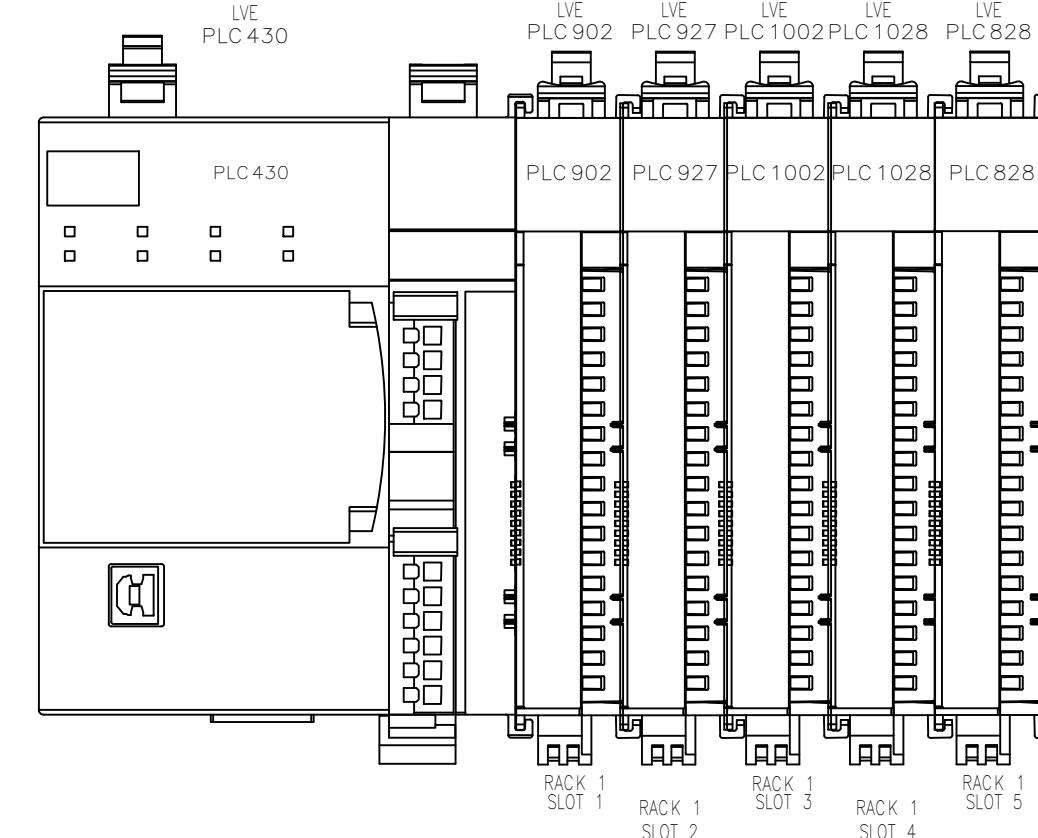
CUSTOMER Hershey (Y&S)		DRAWING DESCRIPTION <b>Area Scanners</b>			
PROJECT NUMBER 9015293	SIZE D	DRAWING NUMBER E-9015293-006	REV 000		
	DRAWN BY TMK	CHK BY TMK	APPR BY TMK	SCALE NTS	
PROJECT NAME Line #5 Palletizer	DATE 6/17/2024	SHEET 06	of 34		



**NOTE: ALL** Control wire will be as follows unless otherwise noted:

120VAC - 16AWG MTW Red(Hot) & White(Neutral)  
5 to 24VDC - 18AWG MTW Blue(Positive +) & White/Blue(Common -)

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Rev.002						+1(717)849-0345	RG Group Industrial Automation	Hershey (Y&S)	Area Scanners & Light Curtains
Rev.001								PROJECT NUMBER	DRAWING NUMBER
								E-9015293-007	REV 000
								TMK	DRAWN BY TMK
								TMK	CHK BY TMK
								TMK	APPR BY TMK
								NTS	SCALE NTS
							PROJECT NAME	Line #5 Palletizer	DATE 6/17/2024
									07 of 34



**NOTE: ALL** Control wire will be as follows unless otherwise noted:

120VAC - **16AWG** MTW Red(Hot) & White(Neutral)  
5 to 24VDC - **18AWG** MTW Blue(Positive +) & White/Blue(Common -)

Rev.003

Rev.002

Rev.001

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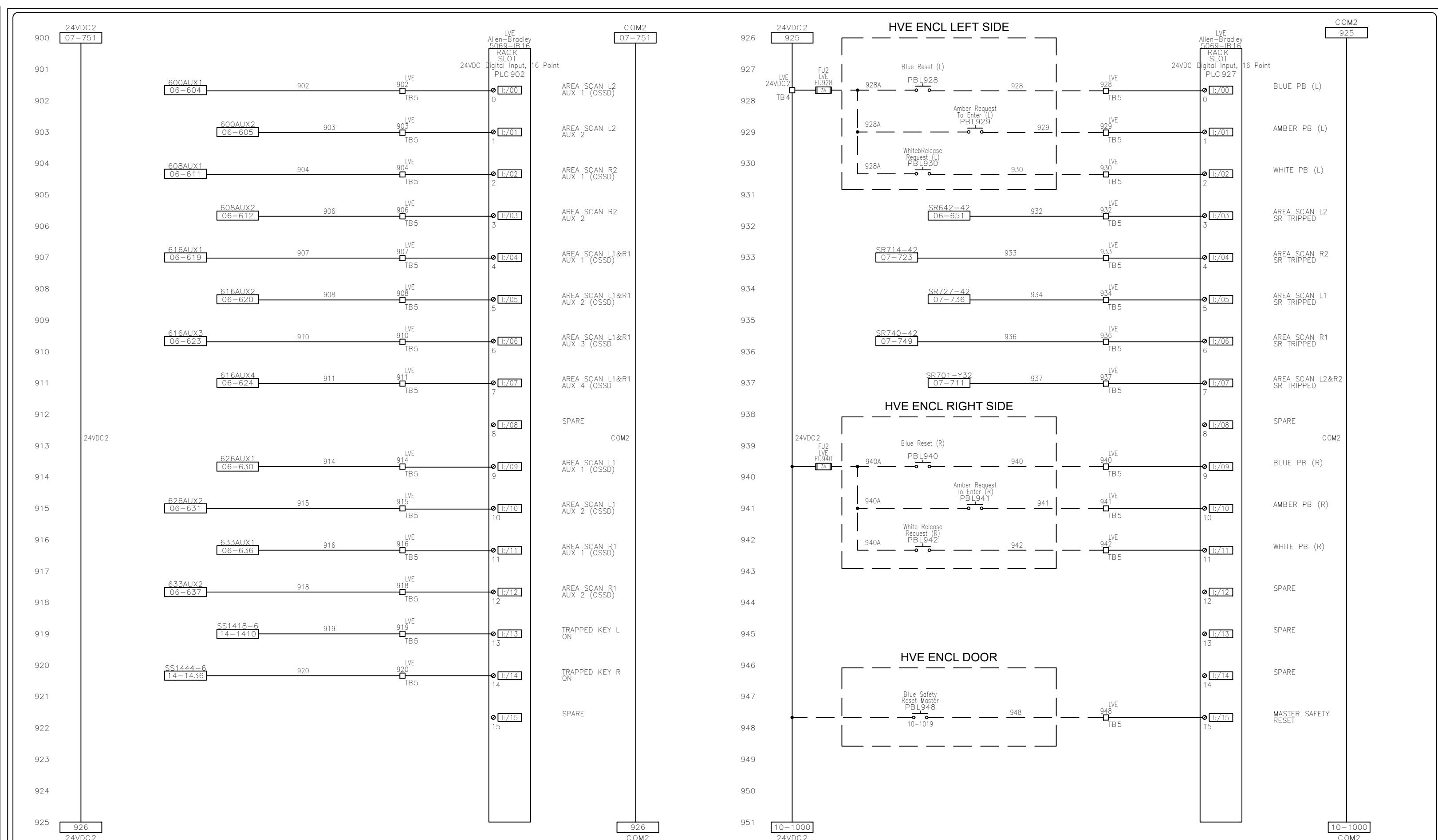
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CUSTOMER  
Hershey (Y&S)

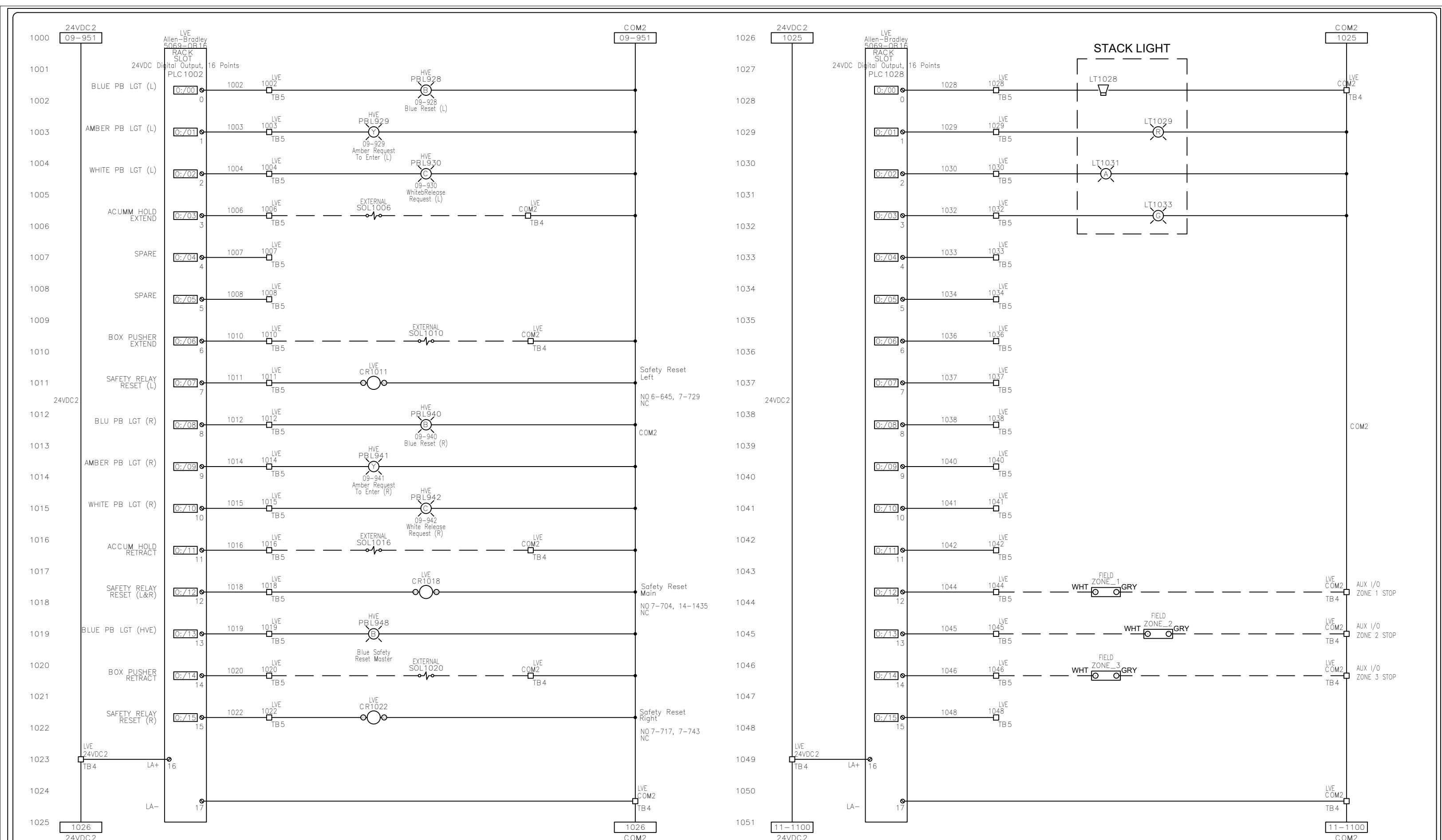
DRAWING DESCRIPTION		PLC Layout		
SIZE	DRAWING NUMBER	E-9015293-008	REV	000
D	E-9015293-008			
TMK	TMK	APPR BY	SCALE	NTS
TMK	TMK	TMK	TMK	TMK
PROJECT NAME	Line #5 Palletizer	DATE	6/17/2024	08 of 34



**NOTE: ALL** Control wire will be as follows unless otherwise noted

120VAC - **16AWG** MTW Red(Hot) & White(Neutral)  
5 to 24VDC - **18AWG** MTW Blue(Positive +) & White/Blue(Common -)

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Rev.002									SIZE	DRAWING NUMBER		
Rev.001									D	E-9015293-009		



**NOTE: ALL Control wire will be as follows unless otherwise noted:**

120VAC - 16AWG MTW Red(Hot) & White(Neutral)  
5 to 24VDC - 18AWG MTW Blue(Positive +) & White/Blue(Common -)

Rev.003				
Rev.002				
Rev.001				

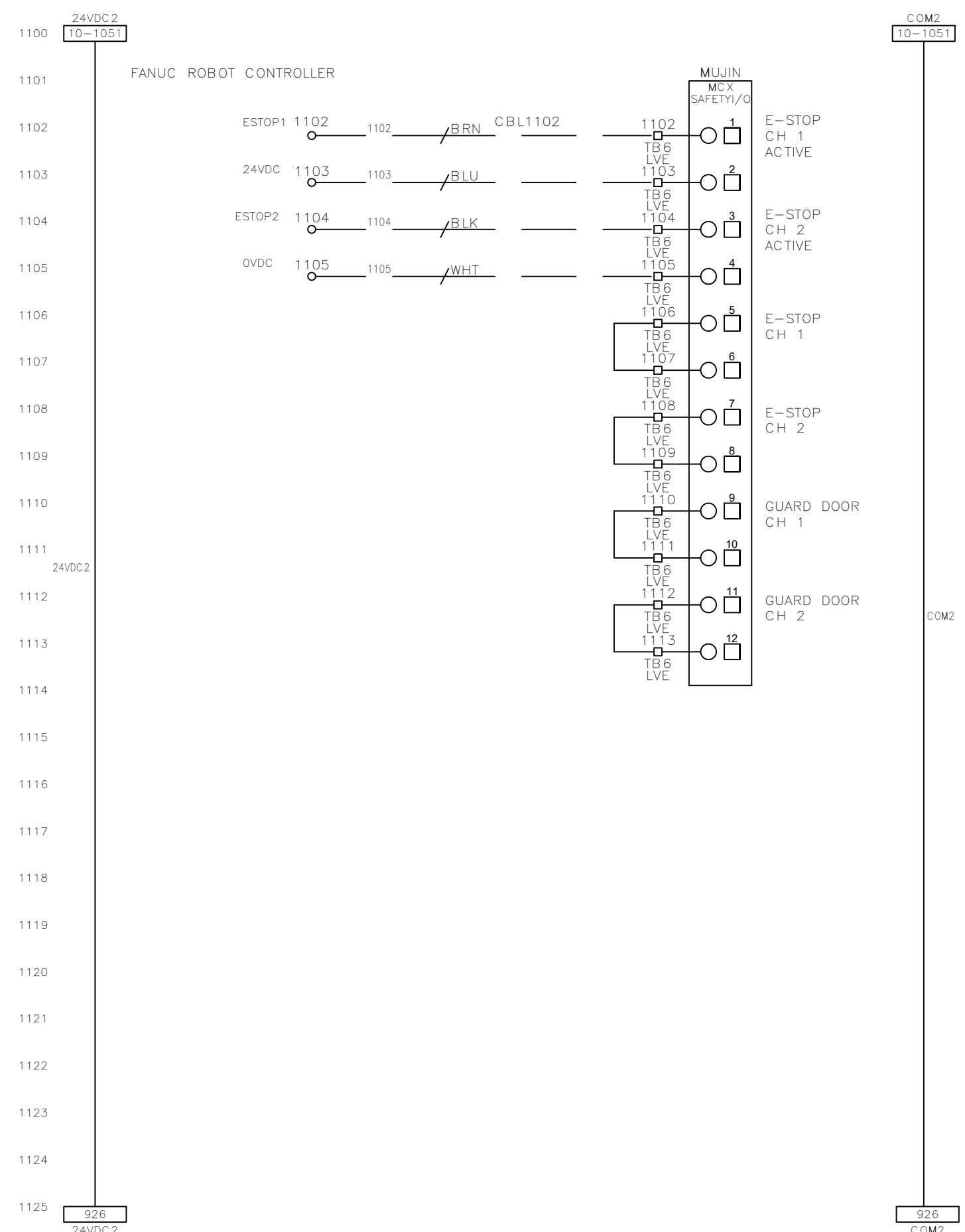
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CUSTOMER	DRAWING DESCRIPTION
Hershey (Y&S)	PLC Digital Outputs
SIZE D	DRAWING NUMBER E-9015293-010
REV 000	SCALE NTS
PROJECT NUMBER 9015293	DRAWN BY TMK
APPR BY TMK	CHK BY TMK
PROJECT NAME Line #5 Palletizer	DATE 6/17/2024
	SHEET 10 of 34



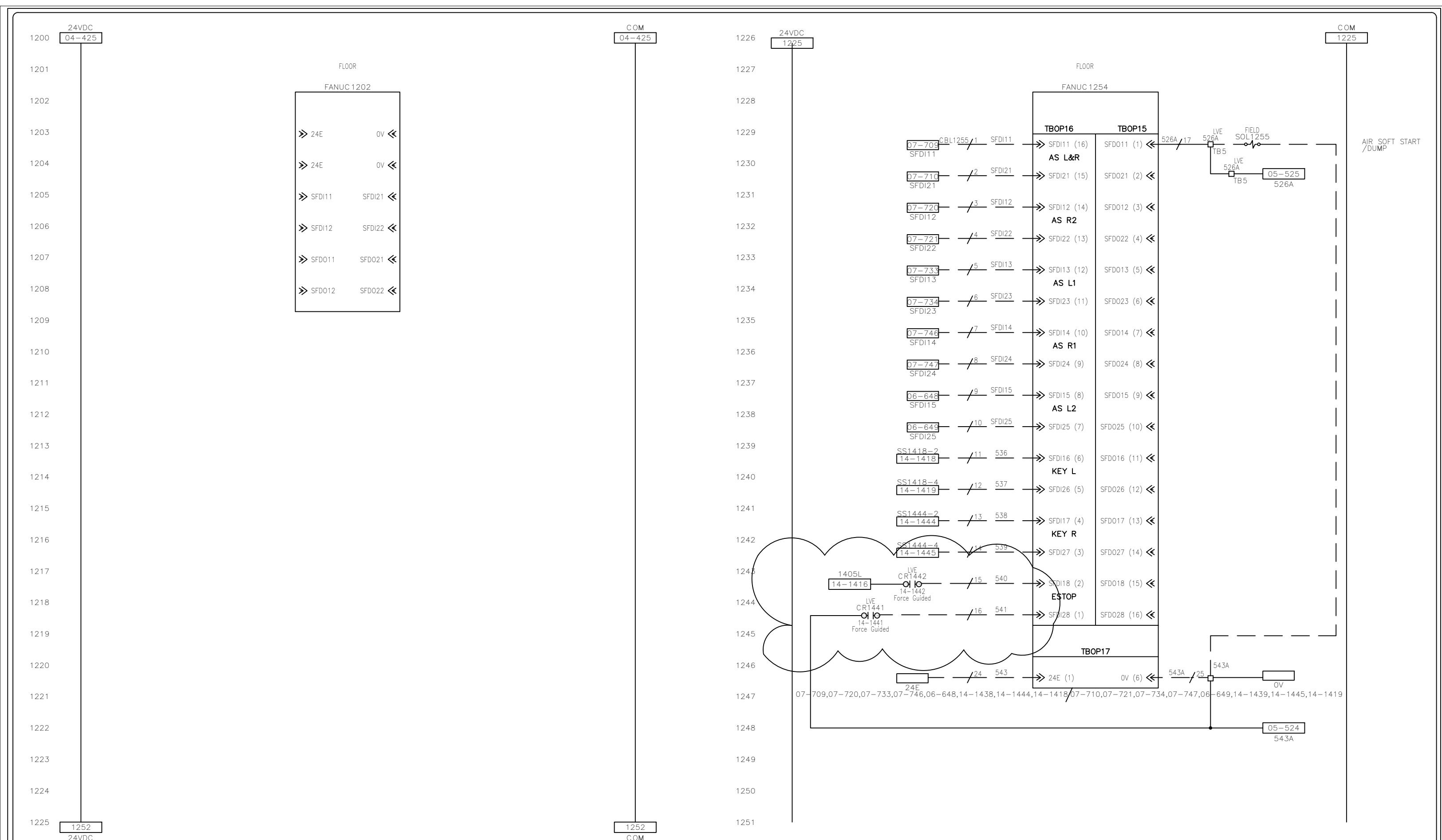
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**NOTE: ALL** Control wire will be as follows unless otherwise noted

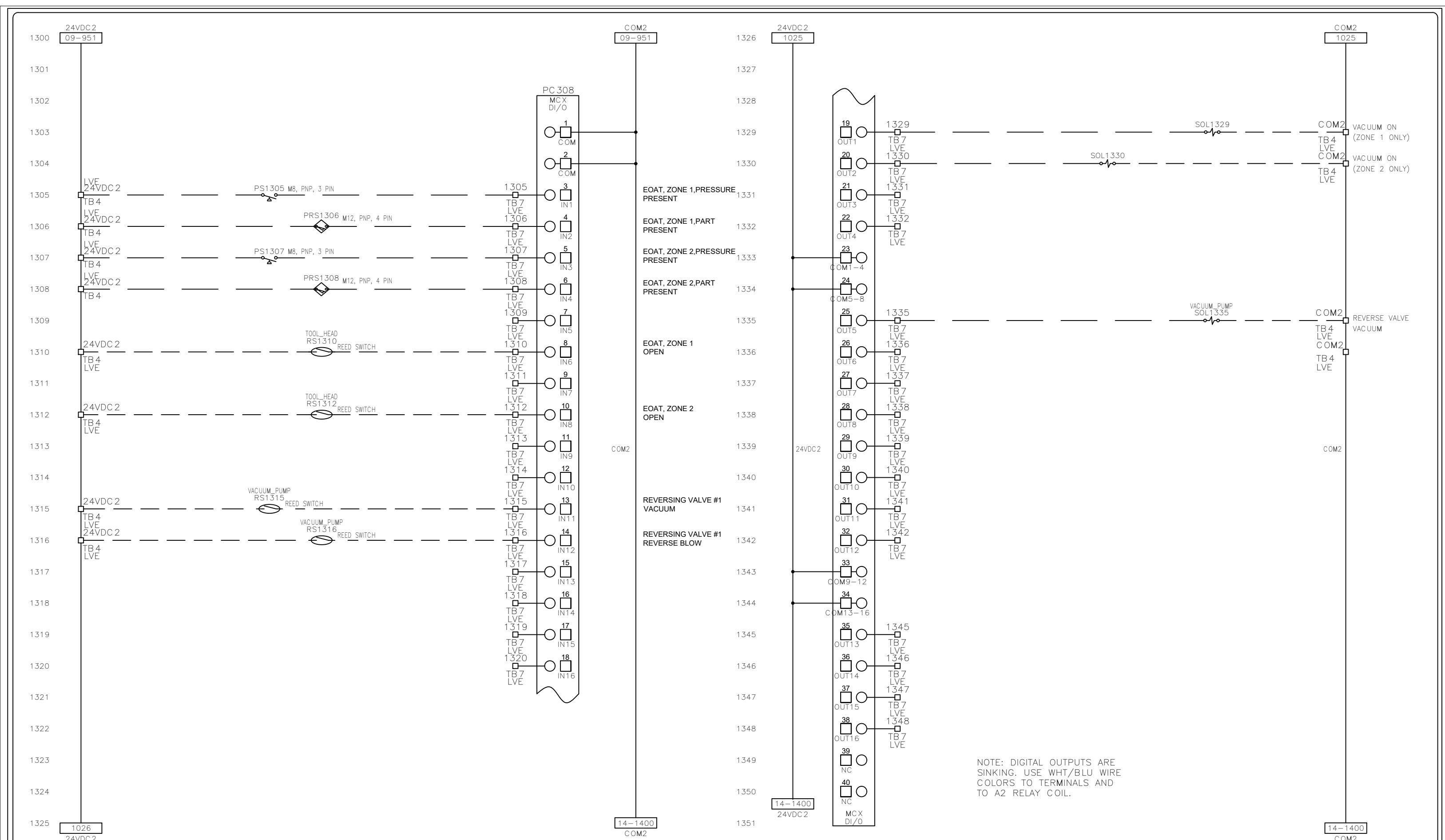
**120VAC - 16AWG MTW Red(Hot) & White(Neutral)**

5 to 24VDC - **18AWG** MTW Blue(Positive +) & White/Blue(Common Ground)

Rev.003						<b>15 Flour Mill Rd York, Pa. 17406</b>  <b>RG Group</b> Industrial Automation <small>www.rg-group.com</small> +1(717)849-0345	<b>Proprietary and Confidential</b>  THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF RG-GROUP. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE EXPRESSED WRITTEN CONSENT OF RG-GROUP IS STRICTLY PROHIBITED	CUSTOMER Hershey (Y&S)	DRAWING DESCRIPTION		
Rev.002									SIZE	DRAWING NUMBER	Mujin Safety I/O
Rev.001									D	E-9015293-011	REV 000
						PROJECT NUMBER	9015293	DRAWN BY	TMK		
						CHK BY	TMK	APPR BY	TMK		
						SCALE	NTS				
						PROJECT NAME	Line #5 Palletizer	DATE	SHEET		
							6/17/2024	11	of		
									34		



Rev.003					15 Flour Mill Rd York, Pa. 17406	Proprietary and Confidential	CUSTOMER	DRAWING DESCRIPTION
Rev.002					+1(717)849-0345	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF RG-GROUP. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE EXPRESSED WRITTEN CONSENT OF RG-GROUP IS STRICTLY PROHIBITED	Hershey (Y&S)	Fanuc Robot Controls
Rev.001					RG Group Industrial Automation	www.rg-group.com	PROJECT NUMBER	SIZE
	Revisions						DRAWN BY	E-9015293-012
							CHK BY	000
							DRAWN BY	TMK
							APPR BY	TMK
							SCALE	NTS
							PROJECT NAME	Line #5 Palletizer
							DATE	6/17/2024
							SHEET	12 of 34



**NOTE: ALL** Control wire will be as follows unless otherwise noted:

120VAC - **16AWG** MTW Red(Hot) & White(Neutral)

5 to 24VDC - **18AWG** MTW Blue(Positive +) & White/Blue(Common Ground)

Rev.003	
Rev.002	
Rev.001	

Revisions

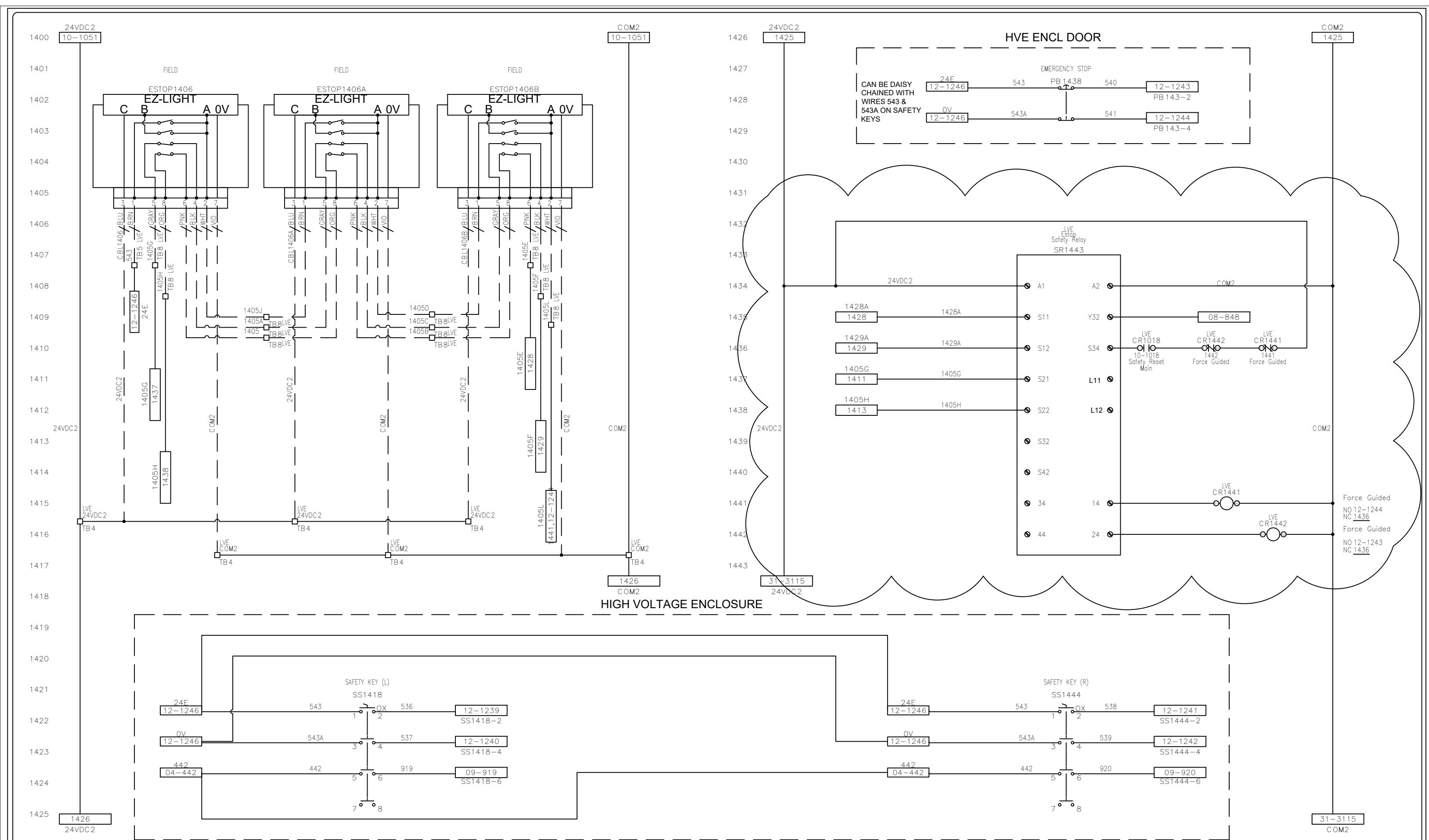
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17406**

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UTPUTS ARE  
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MINALS AND  
OIL.

<b>ntial</b> IN THIS OF N IN THE T OF	CUSTOMER <b>Hershey (Y&amp;S)</b>	DRAWING DESCRIPTION		
		<b>Mujin I/O</b>		
PROJECT NUMBER	SIZE <b>D</b>	DRAWING NUMBER <b>E-9015293-013</b>	REV <b>000</b>	
	DRAWN BY <b>TMK</b>	CHK BY <b>TMK</b>	APPR BY <b>TMK</b>	SCALE <b>NTS</b>
PROJECT NAME <b>Line #5 Palletizer</b>	DATE <b>6/17/2024</b>	SHEET <b>13</b>	of <b>34</b>	



NOTE: ALL Control wire will be as follows unless otherwise noted:

120VAC - 16AWG MTW Red(Hot) & White(Neutral)  
5 to 24VDC - 18AWG MTW Blue(Positive +) & White/Blue(Common -)

Rev.003			
Rev.002			
Rev.001			

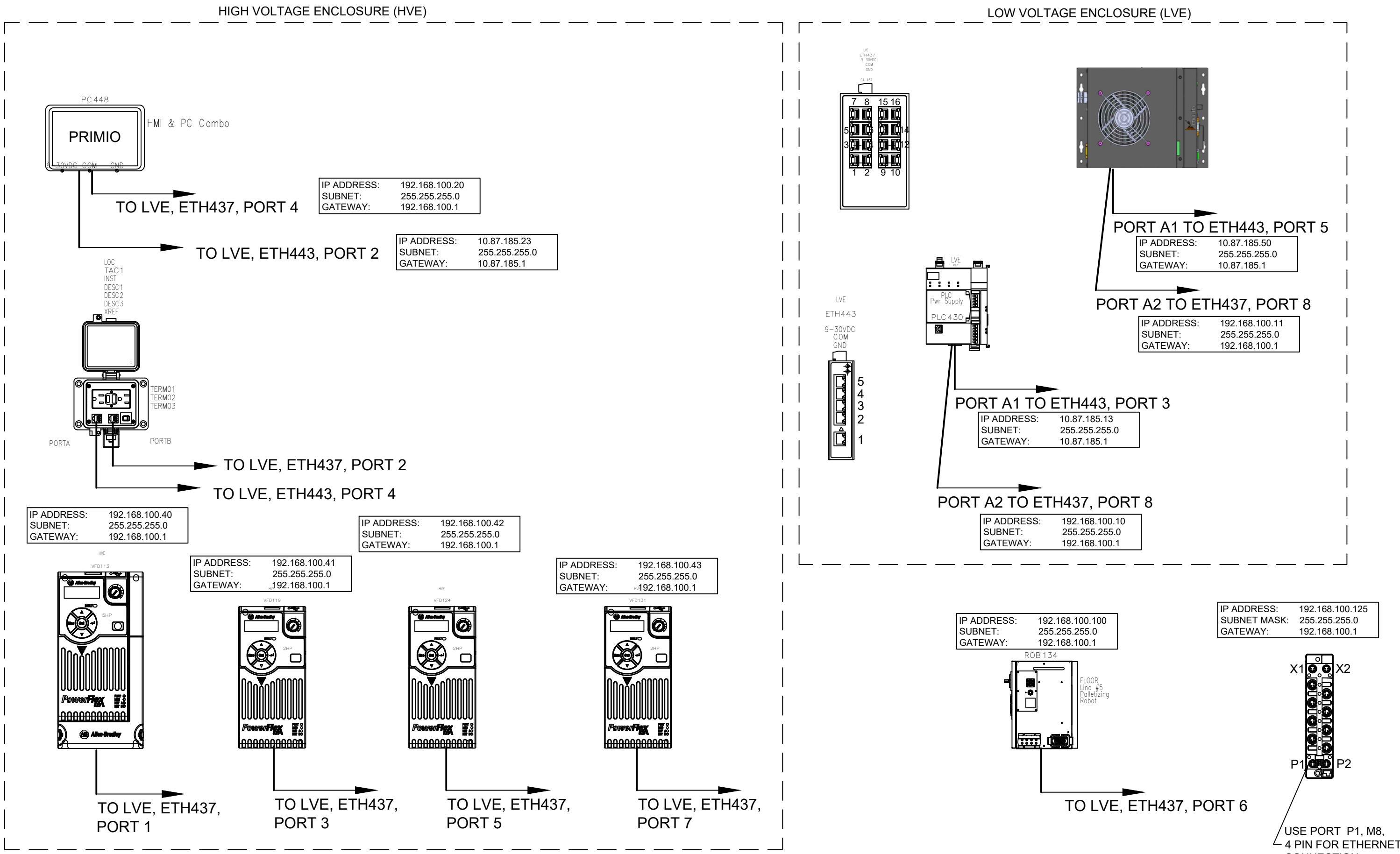
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PROJECT NUMBER	Hershey (Y&S)	DRAWN BY	APPR BY	SCALE
9015293		TMK	TMK	NTS
PROJECT NAME	Line #5 Palletizer	DATE	6/17/2024	14 of 34



Rev.3					
Rev.2					
Rev.1					
Revisions					

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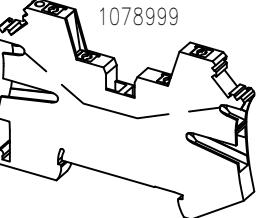


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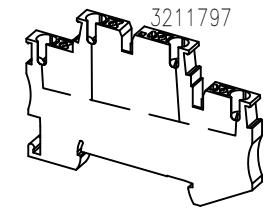
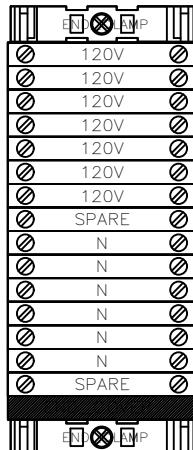
CUSTOMER Hershey (Y&S)  
PROJECT NUMBER 9015293  
PROJECT NAME Line #5 Palletizer

DRAWING DESCRIPTION		Ethernet Topology	
SIZE	DRAWING NUMBER	REV	
D	E-9015293-015	000	
DRAWN BY	CHK BY	APPR BY	SCALE
TMK	TMK	TMK	NTS
DATE			
6/17/2024	15	of	34

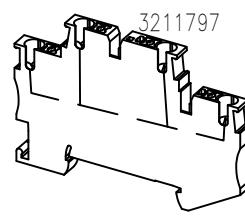
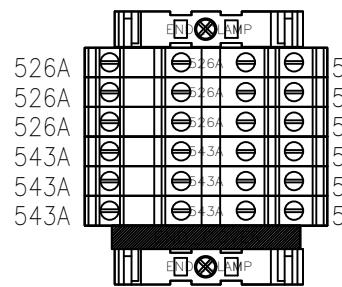
### HIGH VOLTAGE ENCLOSURE



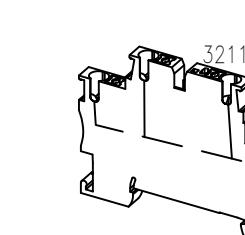
**TB1**



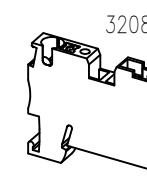
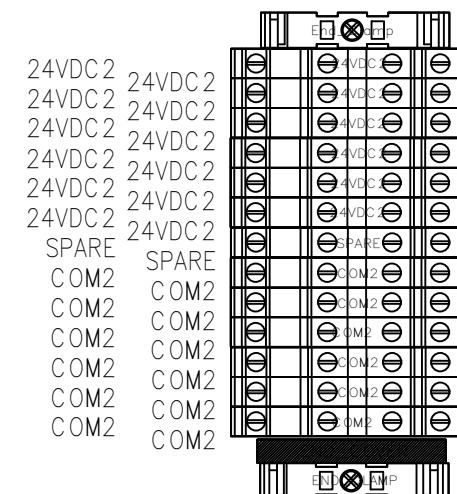
**TB2**



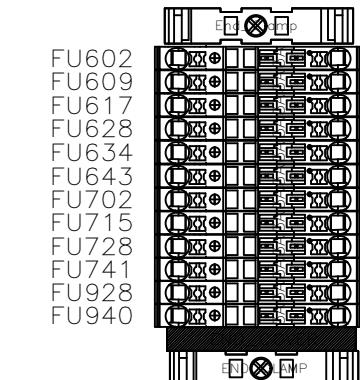
**TB3**



**TB4**

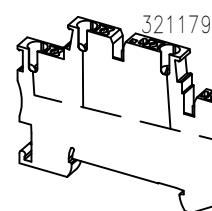


**FU2**

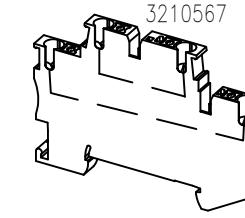
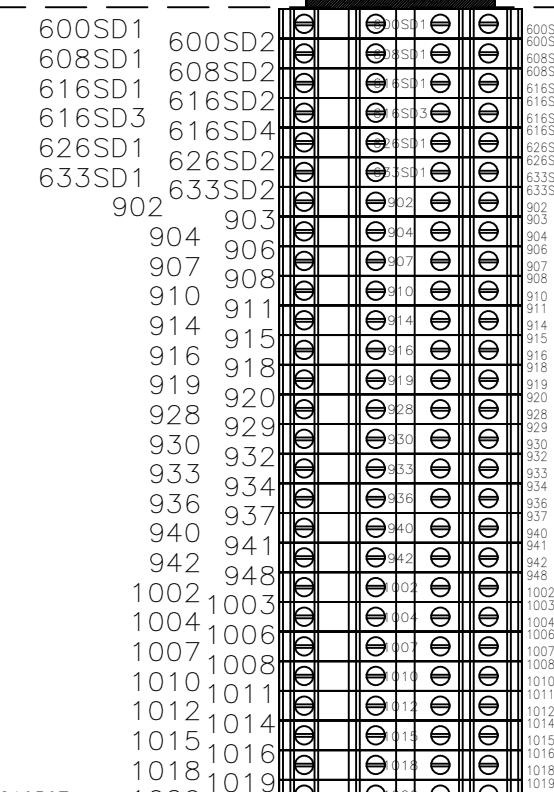
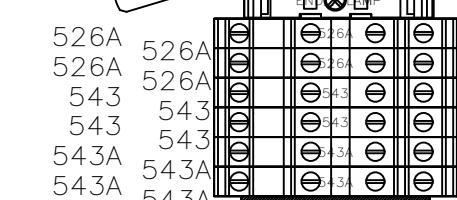


### LOW VOLTAGE ENCLOSURE

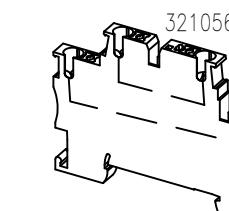
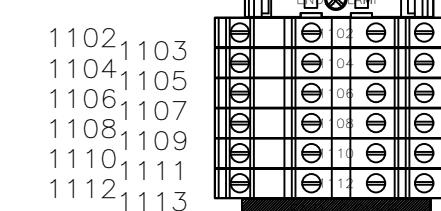
3211797 TRM BLK - QTY. 6



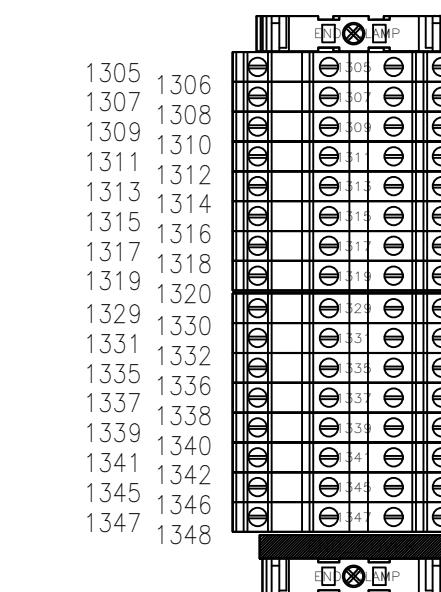
**TB5**



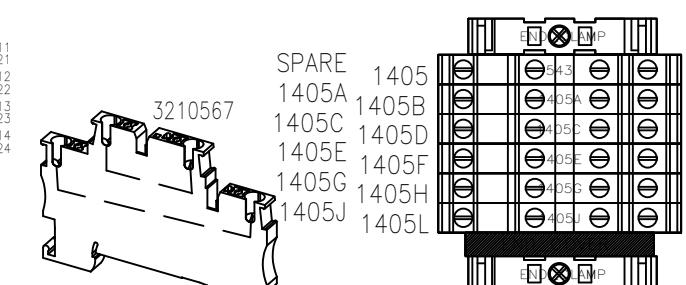
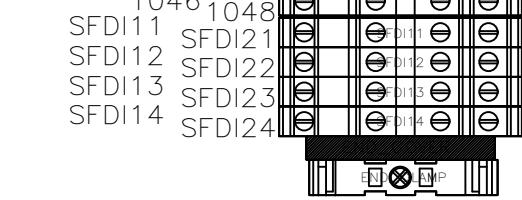
**TB6**



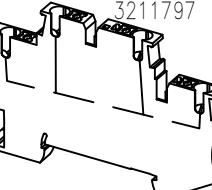
**TB7**



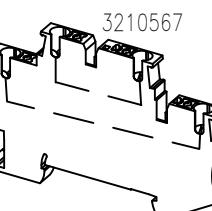
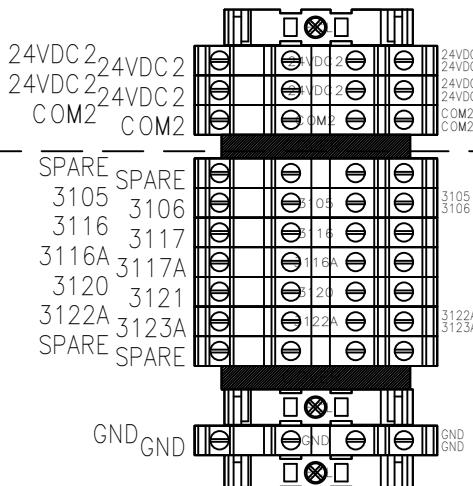
**TB8**



3211797 TRM BLK - QTY. 3



**TB9**



**NOTE: ALL** Control wire will be as follows unless otherwise noted:

120VAC - **16AWG** MTW Red(Hot) & White(Neutral)

5 to 24VDC - **18AWG** MTW Blue(Positive +) & White/Blue(Common -)

Rev.003			
Rev.002			
Rev.001			

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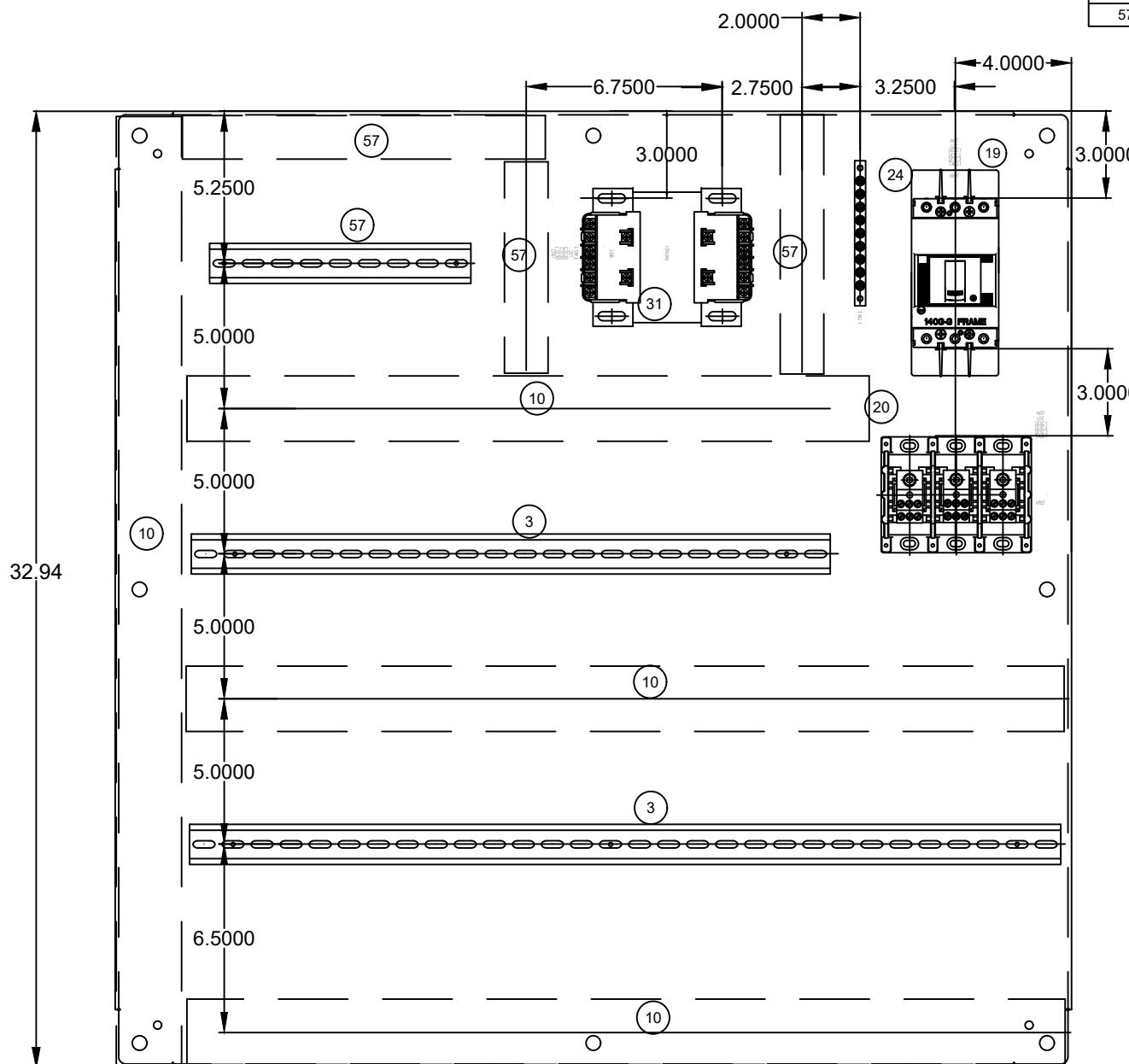
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CUSTOMER  
Hershey (Y&S)  
DRAWING DESCRIPTION  
Terminal Strip Layout  
SIZE D DRAWING NUMBER E-9015293-016 REV 000  
PROJECT NUMBER 9015293 DRAWN BY TMK CHK BY TMK APPR BY TMK SCALE NTS  
PROJECT NAME Line #5 Palletizer DATE 6/17/2024 SHEET 16 of 34

# HVP - Power Enclosure

SCE-36P36 | Subpanel, Bent for 36x36, Actual 33x33 | Saginaw



**NOTE: MUST Verify all dimensions for correct positioning of all components!**

Rev.003

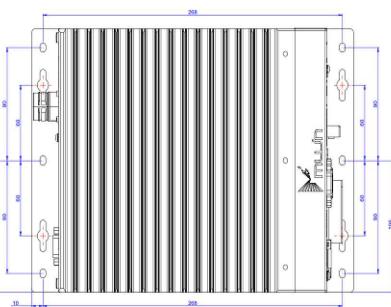
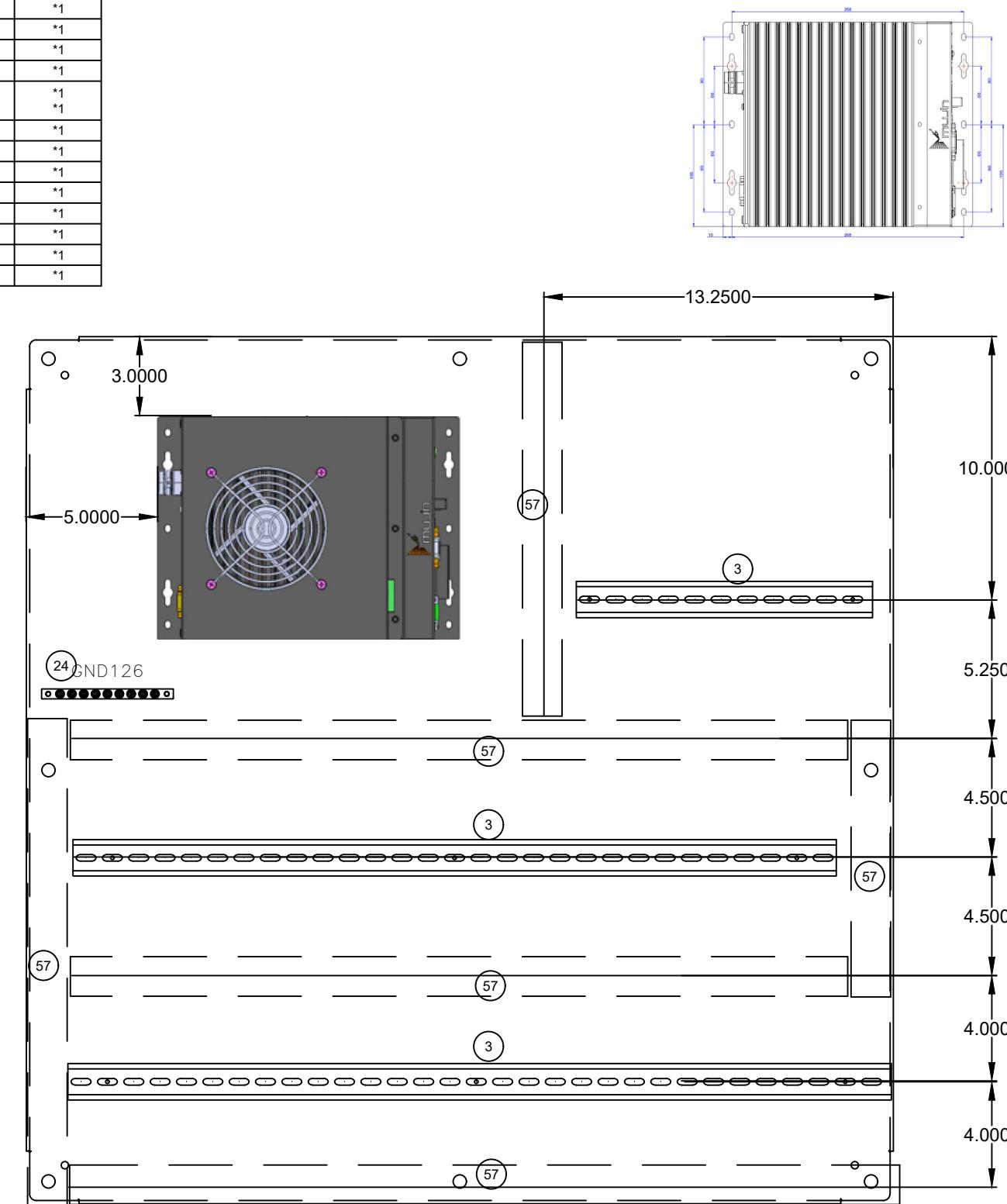
Rev.002

Rev.001

ITEM	TAGNAME	CNT	UNITS	SUBQTY
10	2.25"x3" Wireway	1	33"	*1
10		2	30.25"	*1
10		1	23.50"	*1
19	CB104			*1
20	DB108			*1
24	GND125			*2
3	Din Rail	1	31.25"	*1
3		2	29"	*1
3		1	24"	*1
3		1	11.25"	*1
3		1	9"	*1
31	XF205			*1
57	1.5"x3" Wireway	1	31.5"	*1
57		2	29.5"	*1
57		1	18.5"	*1
57		1	14.25"	*1
57		1	12.5"	*1
57		1	10.5"	*1
57		1	9"	*1
57		1	7.50"	*1

# LVP - Control Enclosure

SCE-36P36 | Subpanel, Bent for 36x36, Actual 33x33 | Saginaw



Revisions

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CUSTOMER

Hershey (Y&S)

DRAWING DESCRIPTION

Back Panel Layout Dimensions

SIZE DRAWING NUMBER REV

D E-9015293-017 000

DRAWN BY CHK BY APPR BY SCALE

TMK TMK TMK NTS

PROJECT NUMBER

9015293

PROJECT NAME

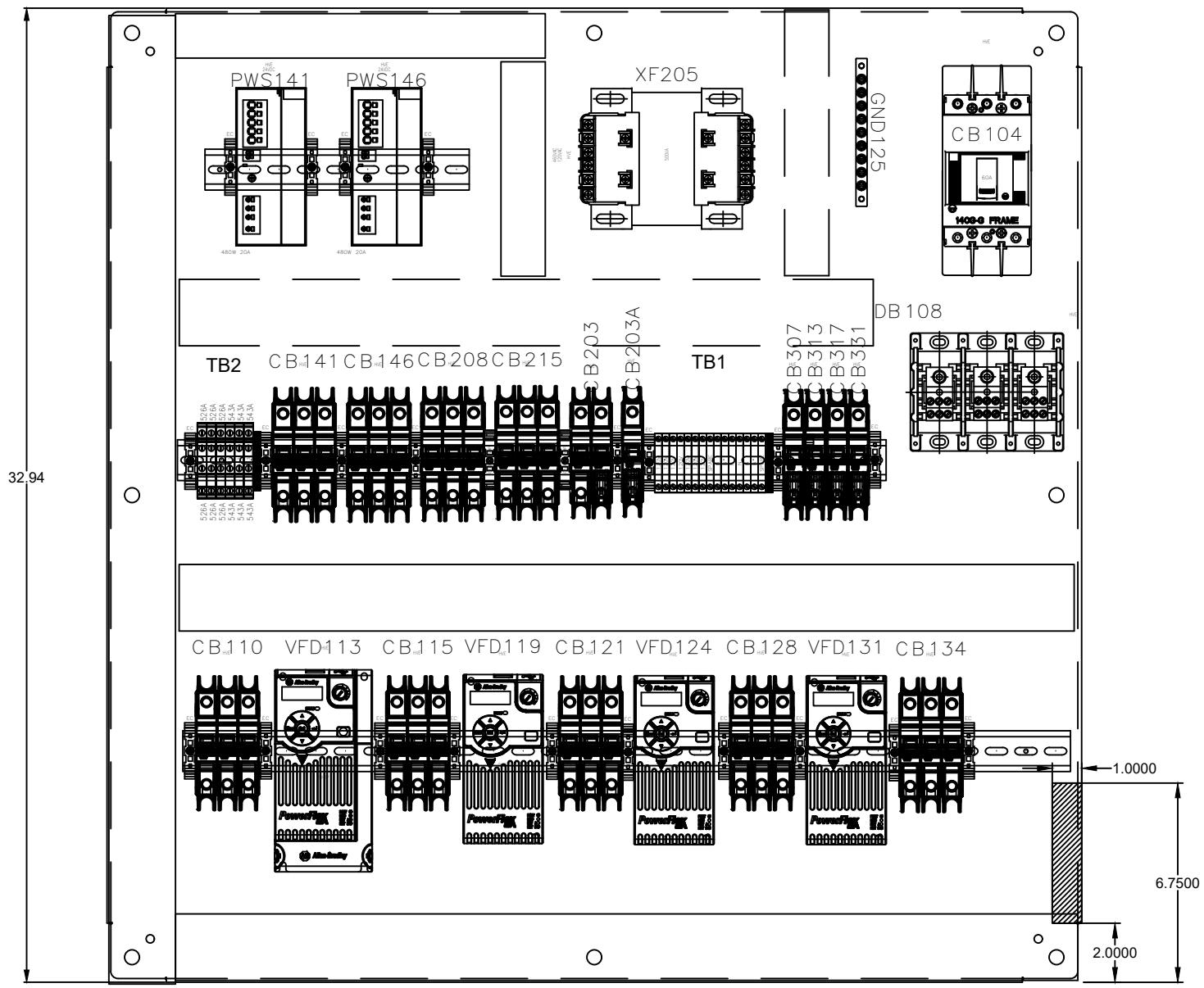
Line #5 Palletizer

DATE 6/17/2024

17 of 34

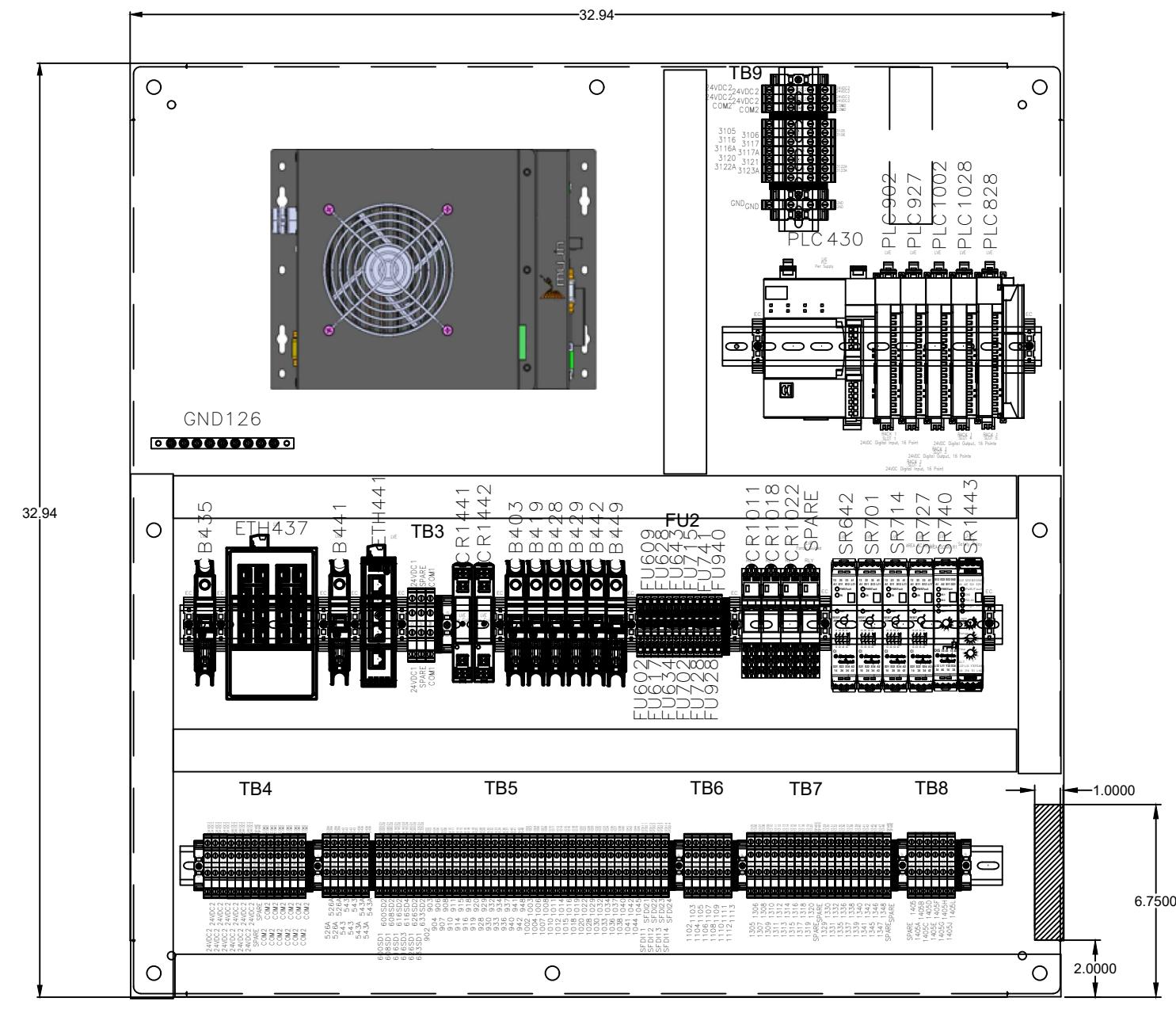
# HVP - Power Enclosure

# LVP - Control Enclosure



FAN FREE ZONE  
MUST VERIFY THE FAN  
FREE ZONE AREA

**SCE-36P36**      *Subpanel, Bent for 36x36, Actual 33x33*      **Saginaw**



**FAN FREE ZONE  
MUST VERIFY THE FAN  
FREE ZONE AREA**

**SCE-36P36**      *Subpanel, Bent for 36x36, Actual 33x33*      **Saginaw**

Rev.003		
Rev.002		
Rev.001		

## Revisions

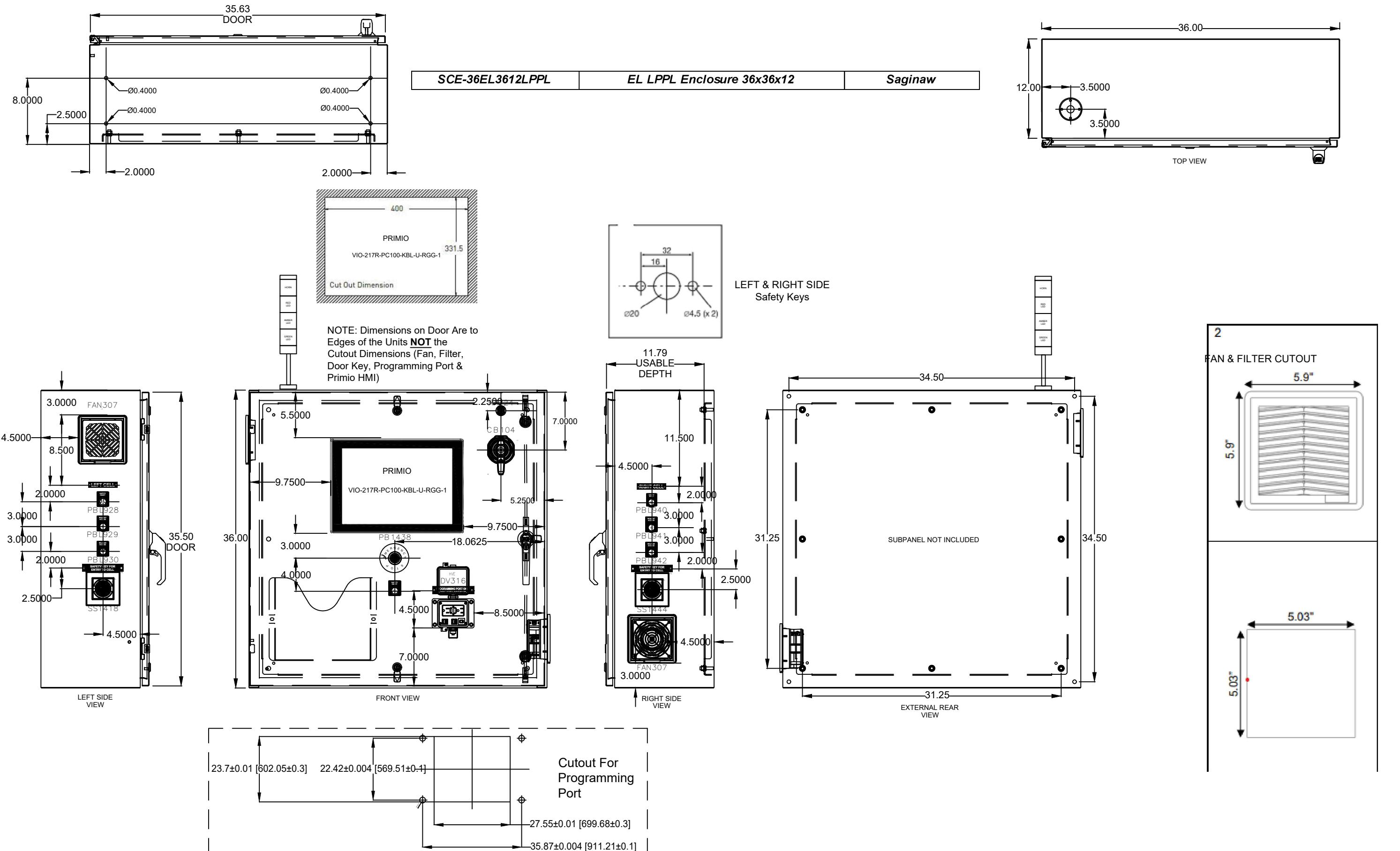
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Hershey (Y&S)		Back Panels Layout		
SIZE	DRAWING NUMBER		REV	
D	E-9015293-018		000	
ECT NUMBER	DRAWN BY	CHK BY	APPR BY	SCALE
9015293	TMK	TMK	TMK	NTS
ECT NAME	DATE	SHEET		
Line #5 Palletizer	6/17/2024	18	of	34



**NOTE:** MUST Verify all dimensions for correct positioning of all components!

Rev.003		
Rev.002		
Rev.001		

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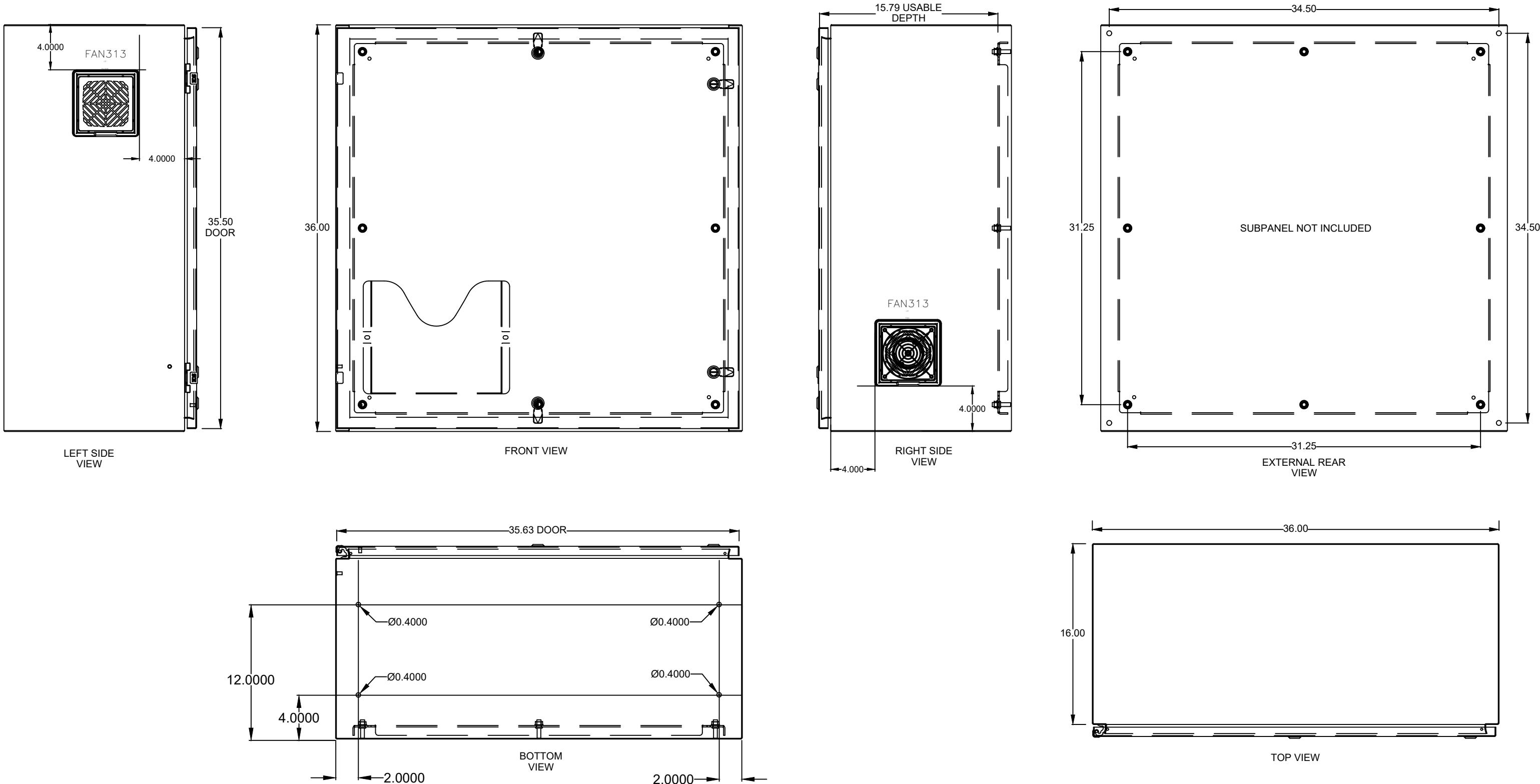
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CUSTOMER  
PROJECT  
PROJECT

		DRAWING DESCRIPTION			
		Enclosure Layout 36x36x12 Power			
Hershey (Y&S)	SIZE	DRAWING NUMBER		REV	000
		D	E-9015293-019		
NUMBER		DRAWN BY	CHK BY	APPR BY	SCALE
9015293		TMK	TMK	TMK	NTS
NAME		DATE	SHEET		
line #5 Palletizer		6/17/2024	19	of	34



Rev.003

Rev.002

Rev.001

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CUSTOMER  
Hershey (Y&S)

DRAWING DESCRIPTION  
Enclosure Layout 36x36x16 Control  
SIZE DRAWING NUMBER  
D E-9015293-020 000  
PROJECT NUMBER 9015293  
DRAWN BY CHK BY APPR BY SCALE  
TMK TMK TMK NTS  
PROJECT NAME Line #5 Palletizer  
DATE 6/17/2024 SHEET 20 of 34

ITEM	TAGS	QTY	SUB	CATALOG	MFG	DESCRIPTION
19	CB104	1	*1	140G-G6C3-C60	AB	
			*1	140G-G-NVM12R	AB	
22	CB110	1		1489-M3C200	AB	
23	CB115 CB121 CB128	3		1489-M3C100	AB	
25	CB134	1		1489-M3C150	AB	
26	CB141 CB146	2		1489-M3C040	AB	
6	CB203	1		1489-M2D040	AB	
32	CB203A	1		1489-M1C100	AB	
30	CB208	1		1489-M3C050	AB	
42	CB215	1		AB 1489-M3D030	AB	
33	CB307 CB313 CB331 CB419 CB428 CB429 CB435 CB441 CB442	9		1489-M1C030	AB	
34	CB317 CB449	2		1489-M1C050	AB	
40	CB403	1		1489-M1C150	AB	
	CBL601 CBL609 CBL627 CBL634	4		SZ-P10PS	KEYENCE	
	CBL617	1		SZ-P10PM	KEYENCE	
58	CBL1406 CBL1406A CBL1406B	3		E12433	IFM	
62	CBL3104 CBL3104A	2		GL-RC20	KEYENCE	
11	CR1011 CR1018 CR1022	3		2903334	Phoenix Contact	
20	DB108	1	*1	HPB106-3	AutomationDirect	
			*1	PBC33	AutomationDirect	
36	DV316	1		P-R2#2-K3RF5	Grace	
1	DV403	1		MCX-23_MPX-23	Mujin	
56	ESTOP1406 ESTOP1406A ESTOP1406B	3		SSA-EB1PLGR-12ECQ8	Banner	
10	ETH437B	1		1783-US16T	AB	
59	ETH441	1		1783-US5T	AB	
35	FAN307 FAN313	2	*1	SCE-N12FA44LG	Saginaw	
			*1	SCE-N12FGA44LG	Saginaw	
14	FU602 / FU702 FU609 / FU715 FU617 / FU728 FU628 / FU741 FU634 / FU928 FU643 / FU940	12	*1	3208943	Phoenix Contact	
			*1	F6073	LittleFuse	38 SPARES
24	GND125 GND126	2		2450K3	McMaster Carr	

ITEM	TAGS	QTY	SUB	CATALOG	MFG	DESCRIPTION
63	LCT3108	1	*2	GL-R88H	KEYENCE	LIGHT CURTAIN, 68.5 (1740MM) DETECTION HEIGHT. 88 BEAMS 24VDC LC RECEIVER PINS 3-OSSD2, PIN 4-OSSD1 RECEIVER INCLUDED
			*2	GL-RB02	KEYENCE	
			*2	GL-RPC03P	KEYENCE	
18	LT1028	1		855E-B24SA3	AB	PIEZOSTYLE SOUND MODULE, BLACK HOUSING, 50mm, 855E 24VAC/DC SOUND MODULE SINGLE-TONE
15	LT1029	1		855E-24TL4	AB	CONTROL TOWER LIGHT MODULE, 50mm, 855E 50mm 24VAC/DC RED, STEADY LED
16	LT1031	1		855E-24TL5	AB	CONTROL TOWER LIGHT MODULE, 50mm, 855E 50mm 24VAC/DC AMBER, STEADY LED
17	LT1033	1	*1	855E-24TL3	AB	CONTROL TOWER LIGHT MODULE, 50mm, 855E 50mm 24VAC/DC GREEN, STEADY LED
			*1	855E-BPM10C	AB	STACK LIGHT BASE, BLACK HOUSING, 855E ACCESSORIES 10cm ALUMINUM POLE MOUNT, CAP INCLUDED
49	PB1438	1	*1	800FM-LMT44MN3RX02S	AB	
			*1	800F-15YSE112	AB	
5	PBL928 PBL940 PBL948	3	*1	800FM-LF6	AB	ILLUMINATED PUSH BUTTON - MOMENTARY, IP66 22.5mm FLUSH, IEC STYLE BLUE 1NO 24V AC/DC METAL OPERATOR w 2 ACROSS MTG
			*1	800F-X10	AB	800F CONTACT BLOCK 22.5mm IEC STYLE 1NO
			*1	800F-ALM	AB	800F MOUNTING LATCH 22.5mm IEC STYLE METAL 1NO
			*1	800F-D3C	AB	POWERBLOCK MODULE - INCANDESCENT 22.5mm IEC STYLE INCADESCENT 1NO METAL OPERATOR w 2 ACROSS MTG
			*1	800F-ALM	AB	800F MOUNTING LATCH 22.5mm IEC STYLE METAL 1NO-1NC
			*1	800F-X10	AB	800F CONTACT BLOCK 22.5mm IEC STYLE 1NO
			*1	800F-N3W	AB	POWERBLOCK MODULE w LED 22.5mm IEC STYLE WHITE 1NO 24V AC/DC PLASTIC OPERATOR w 2 ACROSS MTG
			*1	RESET 22mm	Carolina Laser	

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Rev.002										SIZE	DRAWING NUMBER	REV			
Rev.001										D	E-9015293-021	000			
Revisions						PROJECT NUMBER	9015293	DRAWN BY	CHK BY	APPR BY	SCALE	TMK	TMK	TMK	NTS
						PROJECT NAME	Line #5 Palletizer	DATE	6/17/2024		SHEET	21	of	34	

ITEM	TAGS	QTY	SUB	CATALOG	MFG	DESCRIPTION
4	PBL929 PBL941	2	*1	800FM-LF5	AB	ILLUMINATED PUSH BUTTON - MOMENTARY, IP66 22.5mm FLUSH, IEC STYLE YELLOW 1NO 24V AC/DC METAL OPERATOR w 2 ACROSS MTG
			*1	800F-X10	AB	800F CONTACT BLOCK 22.5mm IEC STYLE 1NO
			*1	800F-ALM	AB	800F MOUNTING LATCH 22.5mm IEC STYLE METAL 1NO
			*1	800F-D3C	AB	POWERBLOCK MODULE - INCANDESCENT 22.5mm IEC STYLE INCADESCENT 1NO METAL OPERATOR w 2 ACROSS MTG
			*1	REQUEST ACCESS	Carolina Laser	
7	PBL930 PBL942	2	*1	800FM-LF7	AB	ILLUMINATED PUSH BUTTON - MOMENTARY, IP66 22.5mm FLUSH, IEC STYLE CLEAR 1NO 24V AC/DC METAL OPERATOR w 2 ACROSS MTG
			*1	800F-X10	AB	800F CONTACT BLOCK 22.5mm IEC STYLE 1NO
			*1	800F-ALM	AB	800F MOUNTING LATCH 22.5mm IEC STYLE METAL 1NO
			*1	800F-D3C	AB	POWERBLOCK MODULE - INCANDESCENT 22.5mm IEC STYLE INCADESCENT 1NO METAL OPERATOR w 2 ACROSS MTG
			*1	RELEASE ACCESS	Carolina Laser	
43	PC448	1		VIO-217R-PC100-KBL-U-RGG-1	Primio	
52	PLC411	1		TBEN-S1-8DIP	TURCK	Remote I/O M12 Connections
29	PLC430	1	*1	5069-L320ERS2	AB	
			*2	5069-IB16	AB	
			*2	5069-OB16	AB	
			*1	1769-ECRK	AB	
27	PWS141 PWS146	2		1159044	Phoenix Contact	
37	RA224	1		R-3W	Grace	
				Fanuc		
44	SCAN600 SCAN608 SCAN626 SCAN633	4		SZ-01S	KEYENCE	

ITEM	TAGS	QTY	SUB	CATALOG	MFG	DESCRIPTION
45	SCAN616	1		SZ-04M	KEYENCE	
12	SR642 SR714 SR727 SR740	4		440R-S13R2	AB	
46	SR701 SR3116	2		440R-D22R2	AB	
50	SR1443	1		440R-D22S2	AB	
47	SS1418	1		440T-MRPSE100E	AB	
48	SS1444	1		440T-MRPSE100Y	AB	
38	TB1	15	*1	1078999	Phoenix Contact	PTV 2,5-QUATTRO - Feed-through terminal block, nom. voltage: 800 V, nominal current: 24 A, number of connections: 4, connection method: Push-in connection, mounting type: NS 35/7,5, NS 35/15, color: gray
			*1	1088748	Phoenix Contact	End Cover
			*1	3030226	Phoenix Contact	Plug-in bridge, pitch: 5.2 mm, number of positions: 20, color: red For 1078999 & 3210567
39	TB2 TB3 TB4 TB5 TB9	30	*1	3211797	Phoenix Contact	PT 4-QUATTRO Feed-through terminal block, nom. voltage: 800 V, nominal current: 32 A, number of connections: 4, connection method: Push-in connection, color: gray
			*1	3208979	Phoenix Contact	End Cover
			*2	3030365	Phoenix Contact	Plug-in bridge, pitch: 6.2 mm, number of positions: 20, color: red For 3211797
13	TB4 TB5 TB6 TB7 TB8 TB9	78	*1	3210567	Phoenix Contact	PTTB 2,5 Double-level terminal block, nom. voltage: 500 V, nominal current: 22 A, connection method: Push-in connection, color: gray
			*1	3022276	Phoenix Contact	End Cover
		50		0800886	Phoenix Contact	End Clamp
8	VFD113	1		25B-D010N104	AB	
9	VFD119 VFD124 VFD131	3		25B-D4P0N104	AB	
67	XF205	1	*1	PH500MQMJ	AutomationDirect	
			*2	FG4	AutomationDirect	
	HVE	1	*1	SCE-36EL3612LPPL	Saginaw	EL LPPL Enclosure 36x36x12
			*1	SCE-36P36	Saginaw	Subpanel, Bent for 36x36, Actual 33x33
	LVE	1	*1	SCE-36EL3616LP	Saginaw	EL Enclosure 36x36x16
			*1	SCE-36P36	Saginaw	Subpanel, Bent for 36x36, Actual 33x33
	LCE	1	*1	SCE-12108ELJ	Saginaw	ELJ Enclosure, Removable hinges.Black mini quarter turn latches. 12x10x8
		1	*1	SCE-12P10	Saginaw	Subpanel, Flat, 11x9

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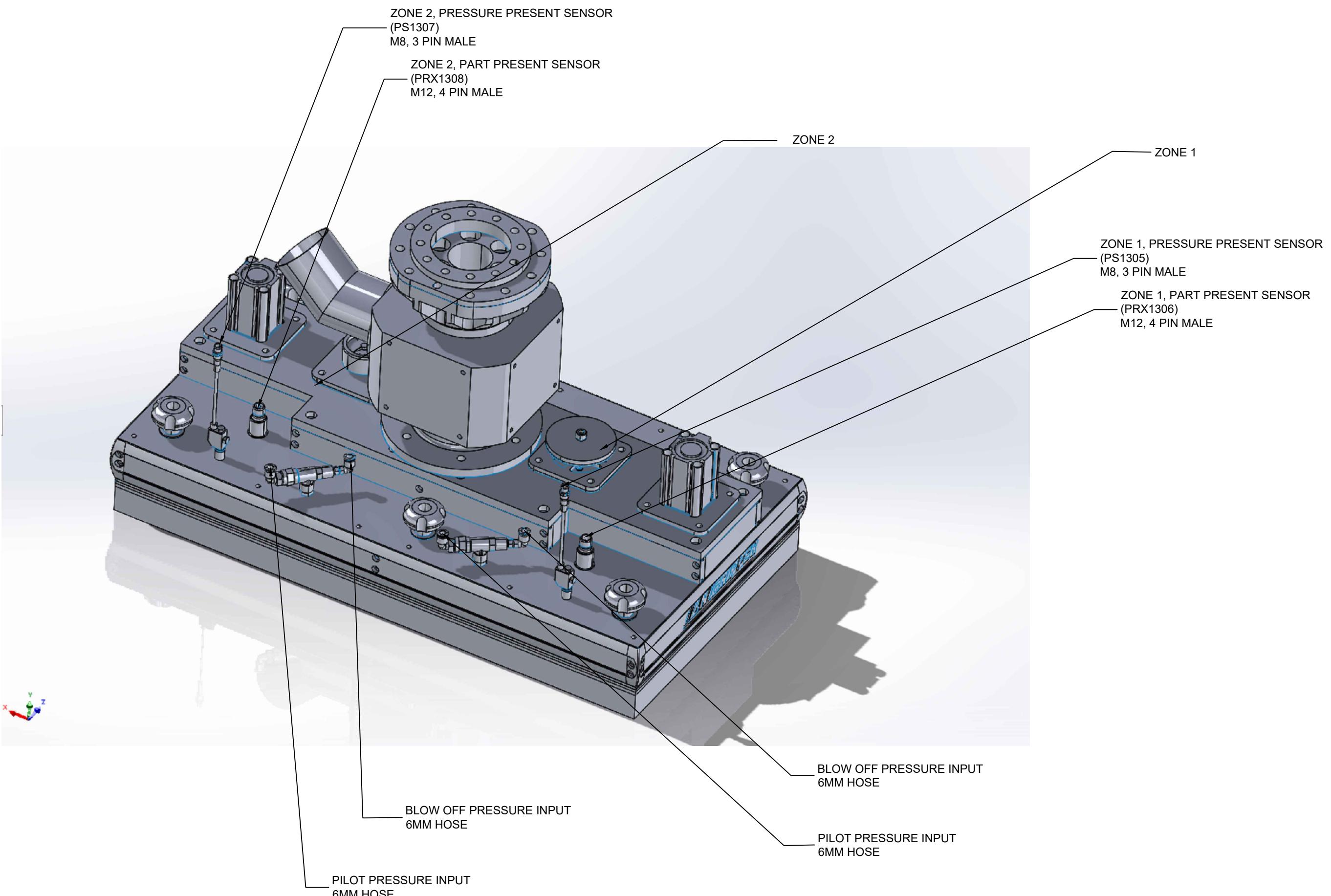
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CUSTOMER  
Hershey (Y&S)

DRAWING DESCRIPTION  
Bill of Materials cont'd  
DRAWING NUMBER E-9015293-022 REV 000  
SIZE D TMK DRAWN BY CHK BY APPR BY SCALE NTS  
PROJECT NUMBER 9015293 TMK TMK TMK NTS  
PROJECT NAME Line #5 Palletizer DATE 6/17/2024 SHEET 22 of 34

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PILOT PRESSURE INPUT  
6MM HOSE

BLOW OFF PRESSURE INPUT  
6MM HOSE

BLOW OFF PRESSURE INPUT  
6MM HOSE

PILOT PRESSURE INPUT  
6MM HOSE

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Hershey (Y&S)

DRAWING DESCRIPTION  
EOAT Layout Side 1

SIZE DRAWING NUMBER REV  
E-9015293-024 000

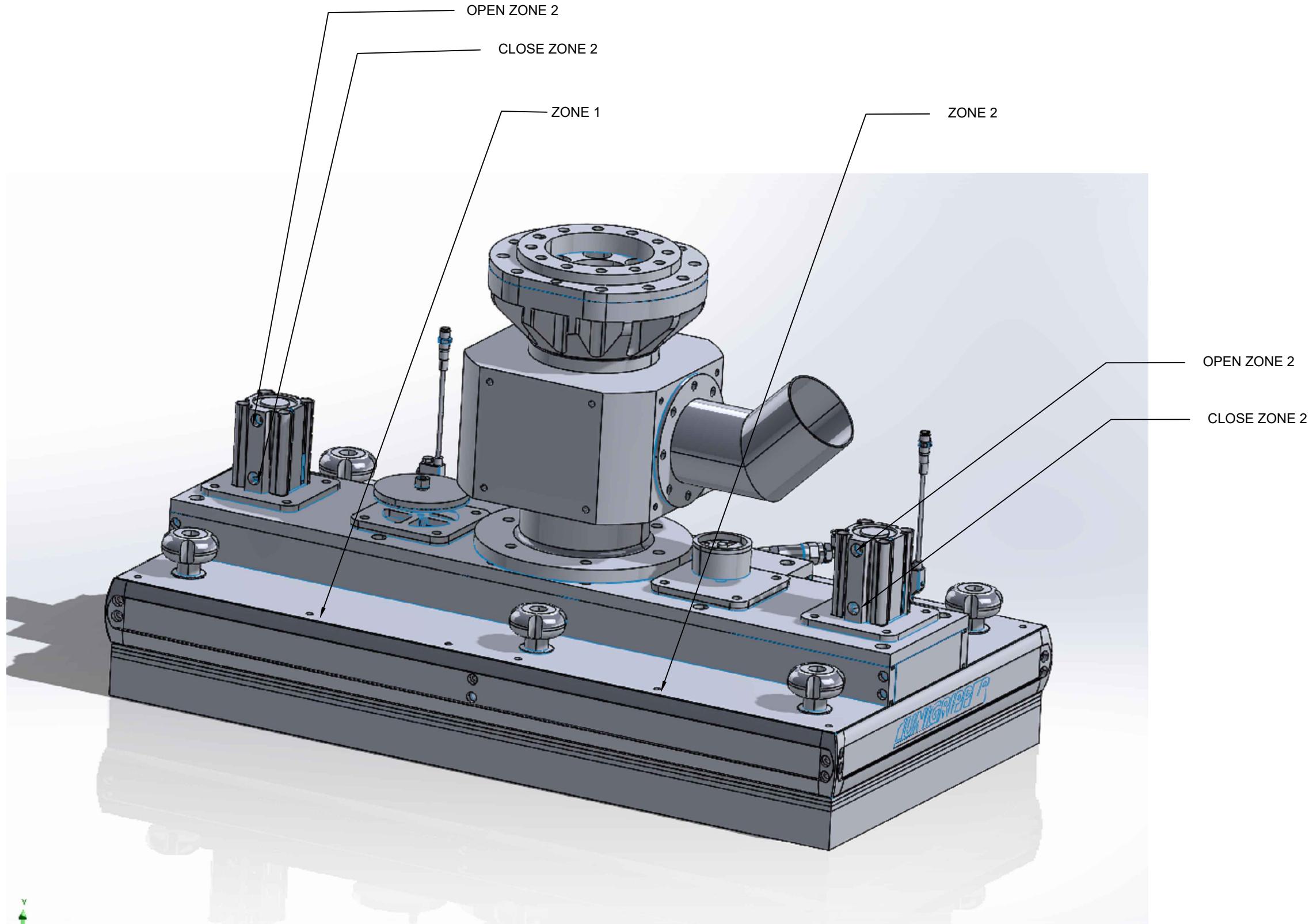
PROJECT NUMBER  
9015293

DRAWN BY CHK BY APPR BY SCALE  
TMK TMK TMK NTS

PROJECT NAME  
Line #5 Palletizer

DATE SHEET  
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Hershey (Y&S)

DRAWING DESCRIPTION  
EOAT Layout Side 2  
SIZE DRAWING NUMBER REV  
D E-9015293-025 000  
PROJECT NUMBER 9015293 DRAWN BY CHK BY APPR BY SCALE  
TMK TMK TMK NTS  
PROJECT NAME Line #5 Palletizer DATE 6/17/2024 SHEET 25 of 34

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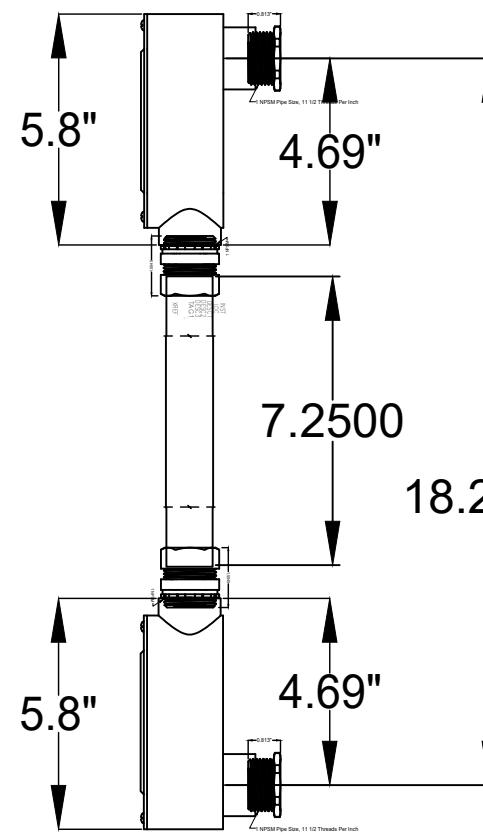
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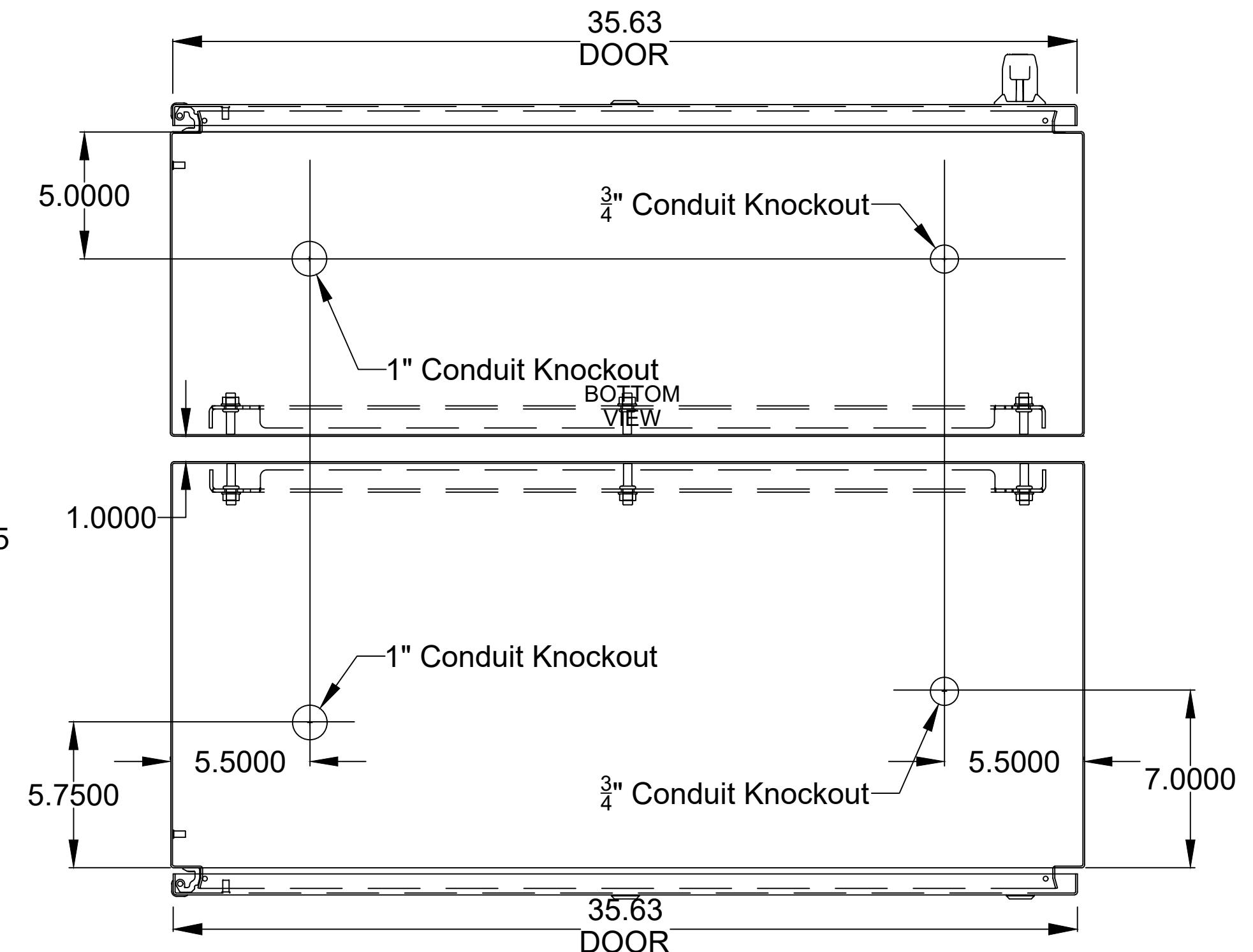
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DRAWN BY	TMK	SCALE
CHK BY	TMK	TMK
APP'R BY	TMK	NTS
PROJECT NAME	Line #5 Palletizer	DATE
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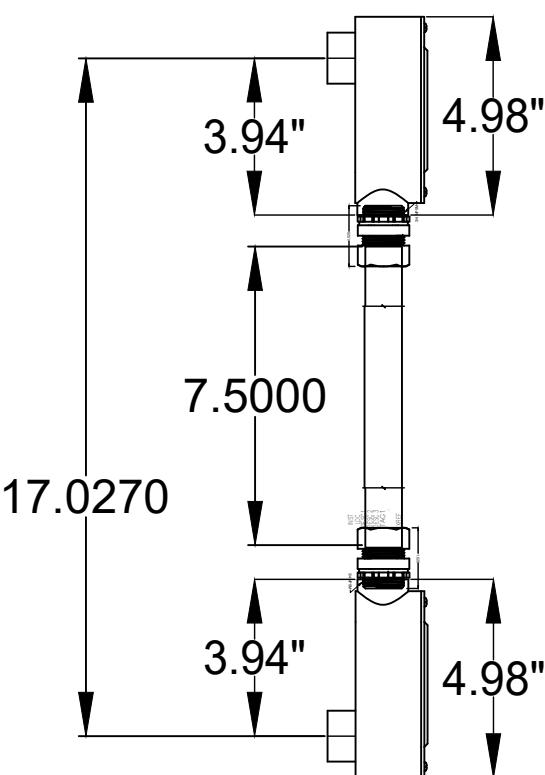
**NOTE: MUST  
Verify these  
Dimensions**



1" - Ethernet  
Cables & Low  
Voltage Pass  
Through



**NOTE: MUST  
Verify these  
Dimensions**



3/4" - Any AC  
Voltage Pass  
Through

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Hershey (Y&S)

DRAWING DESCRIPTION

Enclosure Field Entry Points

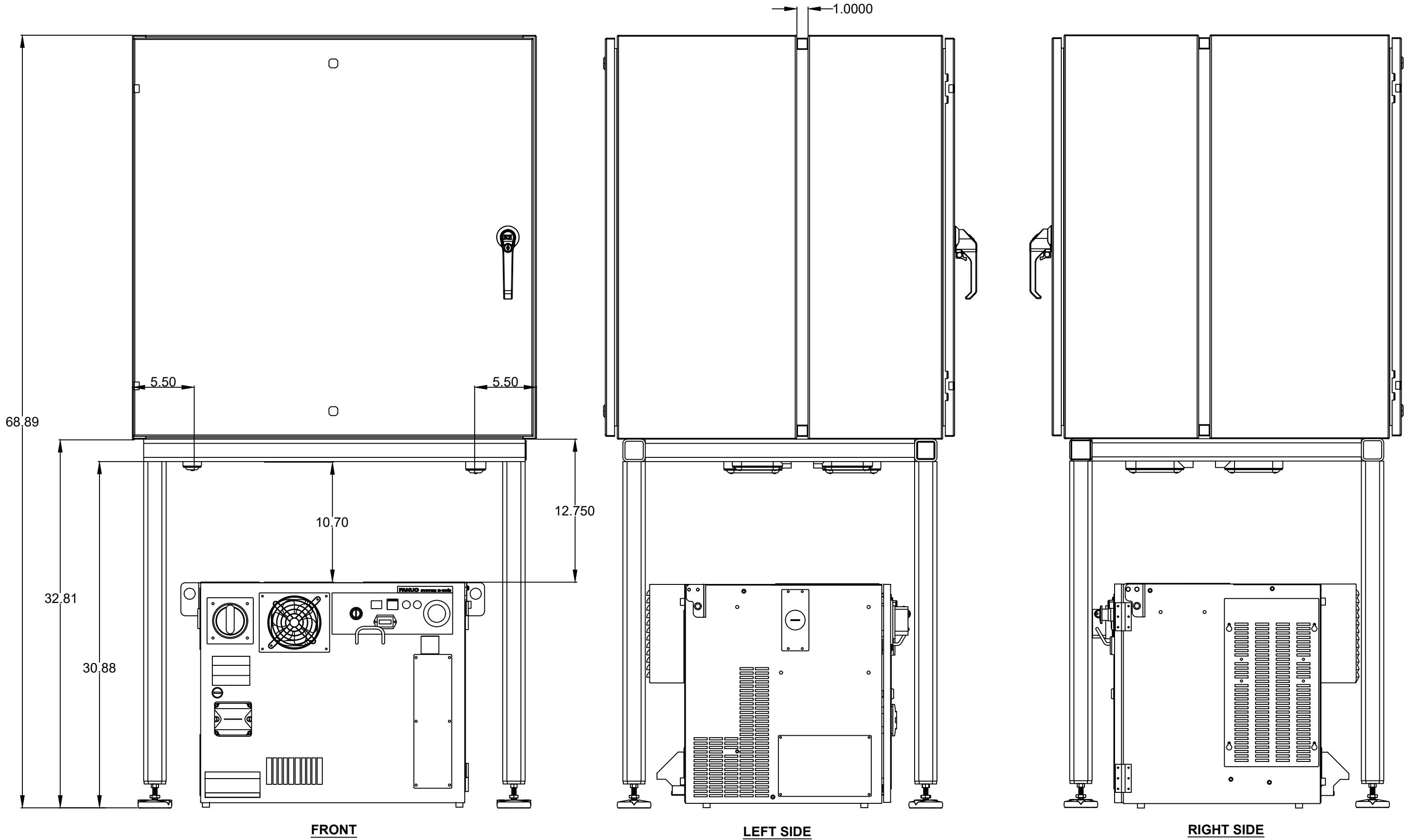
SIZE DRAWING NUMBER REV

D E-9015293-027 000

PROJECT NUMBER 9015293 DRAWN BY CHK BY APPR BY SCALE

TMK TMK TMK NTS

PROJECT NAME Line #5 Palletizer DATE 6/17/2024 SHEET 27 of 34



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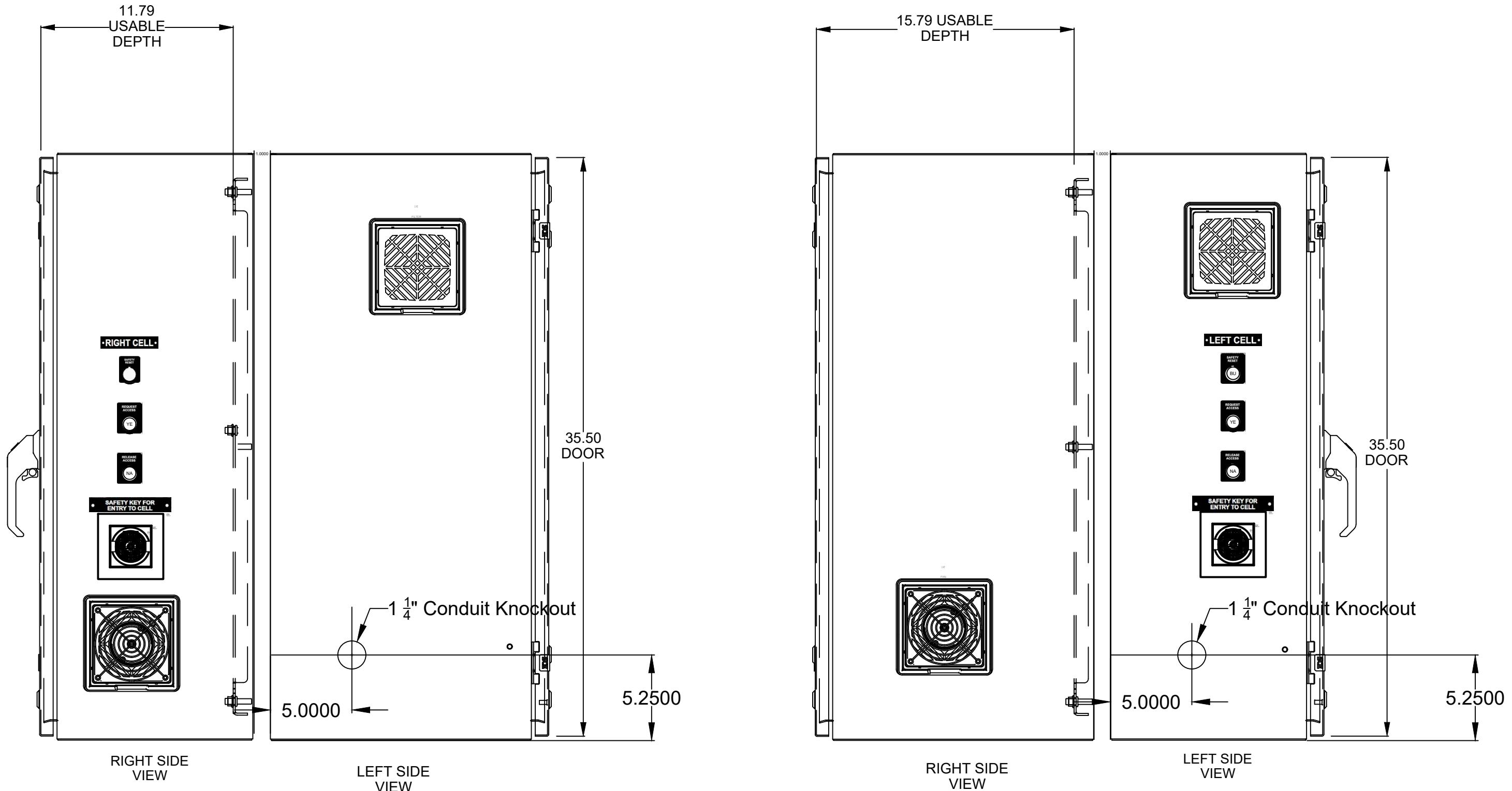
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CUSTOMER  
Hershey (Y&S)  
PROJECT NUMBER  
9015293  
PROJECT NAME  
Line #5 Palletizer

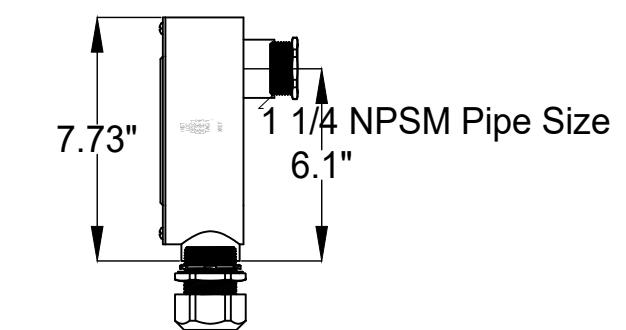
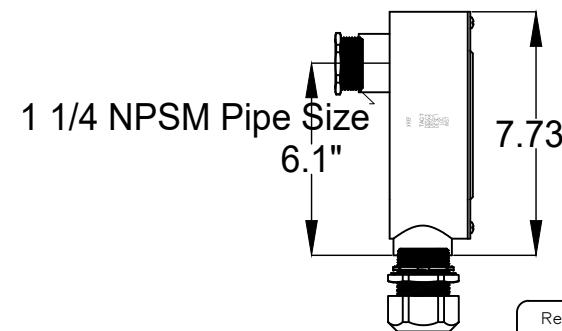
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Enclosures Mounted Back To Back  
SIZE DRAWING NUMBER  
D E-9015293-028 REC  
000  
DRAWN BY CHK BY APPR BY SCALE  
TMK TMK TMK NTS  
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RIGHT SIDE  
VIEW

LEFT SIDE  
VIEW



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Hershey (Y&S)

DRAWING NUMBER  
E-9015293-029

REV  
000

PROJECT NUMBER  
9015293

DRAWN BY  
TMK

CHK BY  
TMK

APPR BY  
TMK

SCALE  
NTS

PROJECT NAME  
Line #5 Palletizer

DATE  
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Hershey (Y&S)

DRAWING DESCRIPTION		
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SIZE	DRAWING NUMBER	REV
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TMK	TMK	TMK
PROJECT NAME	APPR BY	SCALE
9015293	TMK	NTS
Line #5 Palletizer	DATE	SHEET
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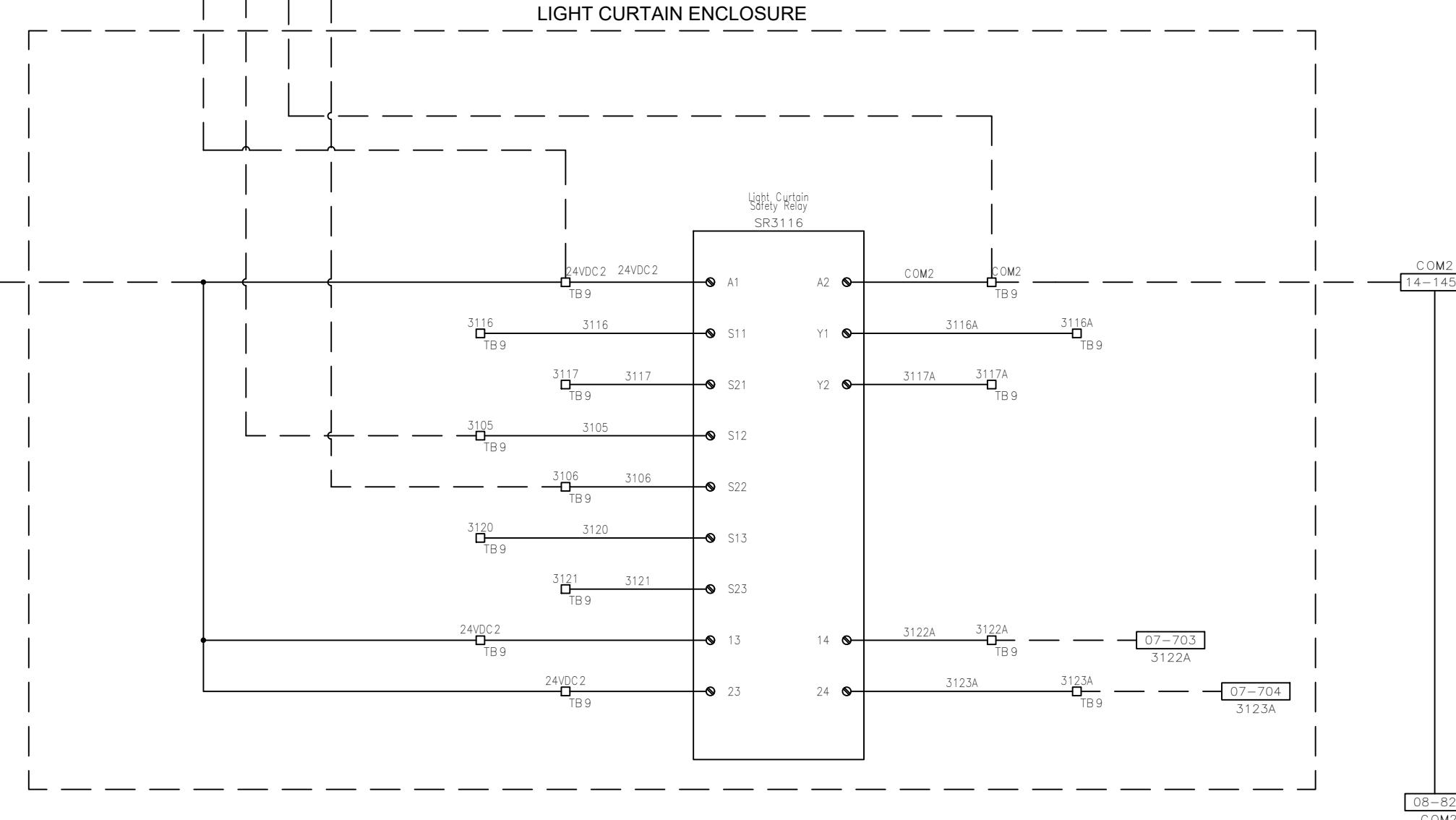
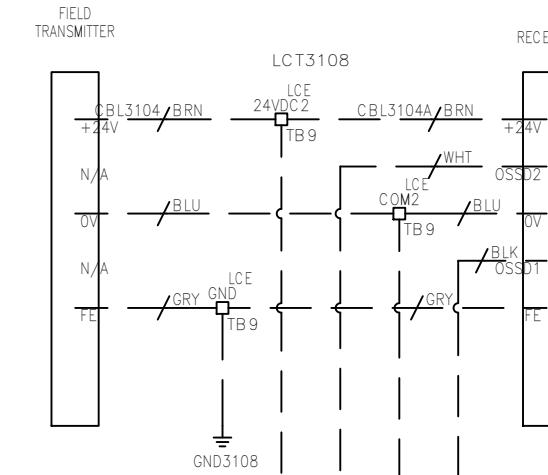
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DRAWING DESCRIPTION		
SIZE	DRAWING NUMBER	REV
D	E-9015293-031	000
TMK	TMK	APPR BY
TMK	TMK	SCALE
PROJECT NAME	9015293	NTS
PROJECT NAME	Line #5 Palletizer	DATE
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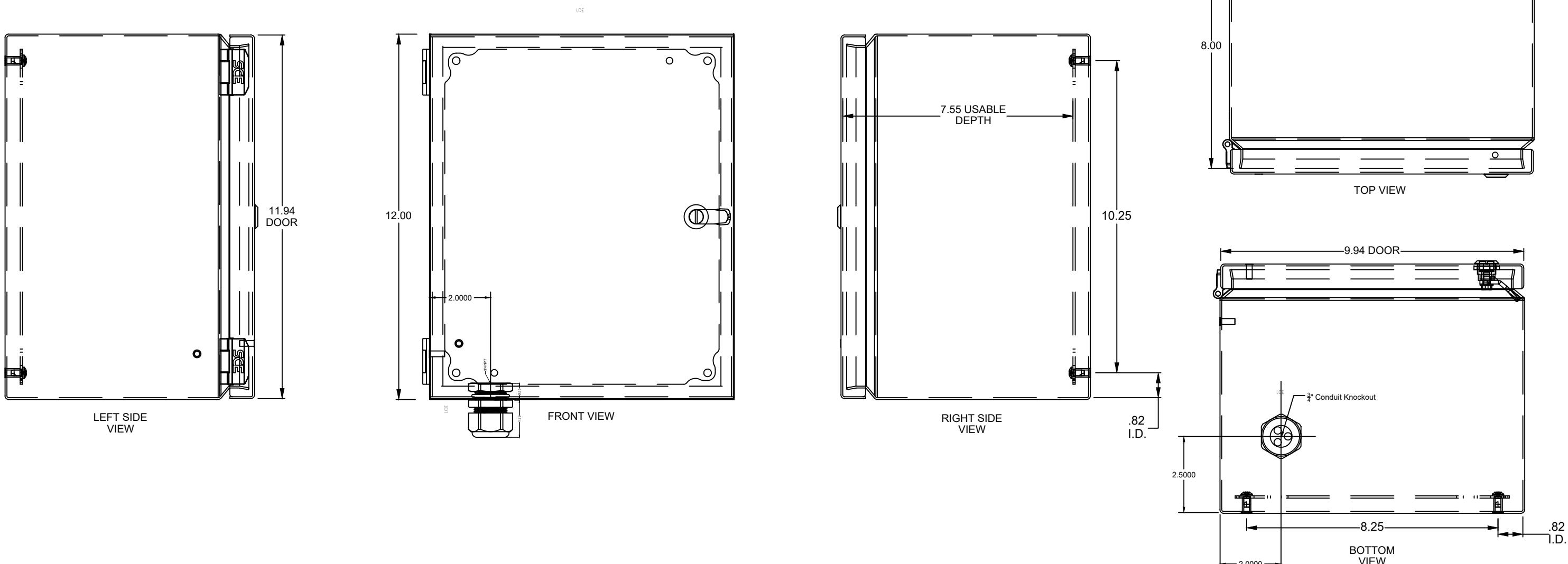
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# Saginaw Enclosure SCE-12108ELJ



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Hershey (Y&S)

DRAWING DESCRIPTION  
LCE Enclosure 12x10x8  
SIZE DRAWING NUMBER REV  
D E-9015293-032 000  
PROJECT NUMBER 9015293 DRAWN BY CHK BY APPR BY SCALE  
TMK TMK TMK NTS  
PROJECT NAME Line #5 Palletizer DATE 6/17/2024 SHEET 32 of 34

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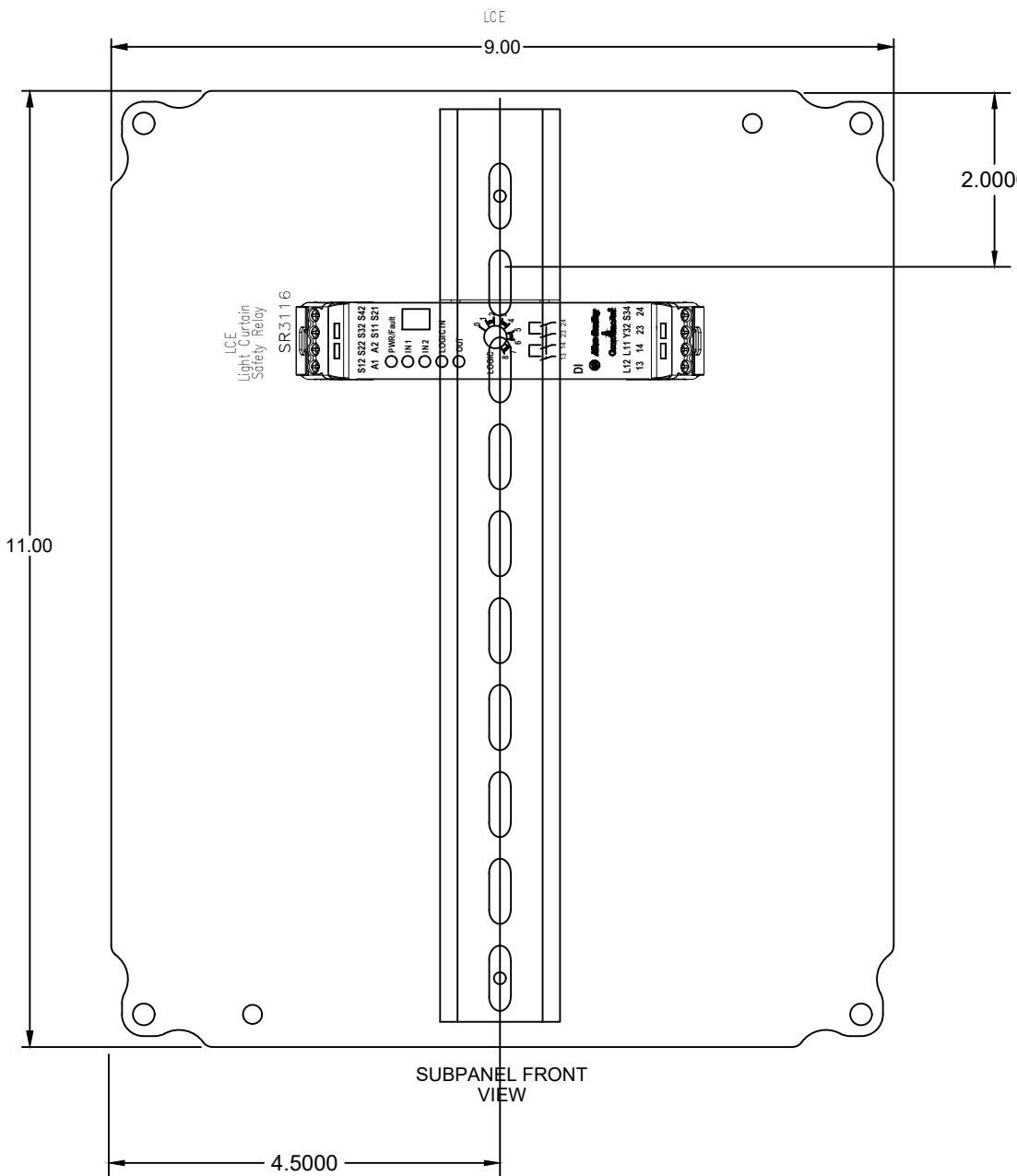
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# Saginaw SCE-12P10



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Hershey (Y&amp;S)

DRAWING DESCRIPTION		
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SIZE	DRAWING NUMBER	REV
D	E-9015293-033	000
TMK	TMK	TMK
PROJECT NAME	9015293	NTS
PROJECT NAME	Line #5 Palletizer	DATE
	6/17/2024	33 of 34

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DRAWING DESCRIPTION		
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SIZE	DRAWING NUMBER	REV
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TMK	TMK	TMK
PROJECT NAME	APPR BY	SCALE
Line #5 Palletizer	6/17/2024	NTS
PROJECT NUMBER	DRAWN BY	CHK BY
9015293	TMK	TMK
DATE	SHEET	
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