

# InnovateIT Reverse Osmosis

## MAIN ENCLOSURE (LVPC-01)

### MAIN ENCLOSURE (LVPC-01)

SHEET	REV	DESCRIPTION
<a href="#">01</a>	0	COVER SHEET & DRAWING LIST
<a href="#">02</a>	0	ENCLOSURE BILL OF MATERIALS
<a href="#">03</a>	0	ENCLOSURE BILL OF MATERIALS
<a href="#">04</a>	0	ENCLOSURE BACK PLANE DETAILS
<a href="#">05</a>	0	460VAC POWER DISTRIBUTION
<a href="#">06</a>	0	460VAC - VARIABLE FREQUENCY DRIVE 01
<a href="#">07</a>	0	24VDC - POWER DISTRIBUTION DETAILS
<a href="#">08</a>	0	24VDC CONTROL DETAILS
<a href="#">09</a>	0	24VDC - PLC LOCAL I/O DETAILS
<a href="#">10</a>	0	PLC MOD 01 - I/O POWER DISTRIBUTION
<a href="#">11</a>	0	PLC MODULE 03 & 04 - ANALOG INPUTS
<a href="#">12</a>	0	PLC MODULE 05 - ANALOG OUTPUTS

UNLESS OTHERWISE NOTED:  
 1) ALL DIMENSIONS ARE IN INCHES  
 2) BREAK ALL SHARP EDGES  
 3) TOLERANCES (NON ACCUMULATIVE):

FOR MACHINED SURFACES:  
 DECIMAL 1 PLC. +/- .03"  
 DECIMAL 2 PLC. +/- .01"  
 DECIMAL 3 PLC. +/- .005"  
 FRACTIONAL ANGLES +/- 1/64"  
 +/- .5"

FOR FABRICATION WELDMENTS,  
 SAWCUTS, BENDS ETC.:  
 FRACTIONAL +/- 1/16"  
 ANGLES +/- 1"

#### DRAWING REFS.

0	4/6/2020	INITIAL RELEASE	JJK		JJK
REV	DATE	DESCRIPTION	DRAWN	CHKD	APPV

**INNOVATEIT**  
 16 Kairnes Street  
 Albany, NY 12205  
 (518) 741- 4200

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DRAWING NAME:  
 MAIN ENCLOSURE (LVPC-01)  
 COVER SHEET & DRAWING LIST

PROJECT NAME:  
 InnovateIT Reverse Osmosis ENCL01

DWG. SIZE  
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 SHEET  
 1  
 REV  
 0

ITEM	QTY	DESCRIPTION	MFG	CATALOG - MFG	CATALOG - ICWE	Mark
1	2	VFD, 480 VAC, 3 Phase, 10.5A, 5 HP, 4.0 kW, FRAME B, NO FILTER	Allen-Bradley	25B-D010N104	6404203	VFD2, VFD3
2	1	POWER SUPPLY, 180-550 VAC, 24 VDC, 5A	MEAN WELL	WDR-120-24	EL-PS-WDR-120-24	<a href="#">PWR1</a>
3	2	PLC ANALOG INPUT MODULE, 4CH DIFF	Omron	NX-AD3204	OMRON-NXAD3204	MOD3, MOD4
4	1	PLC ANALOG OUTPUT MODULE, 4-20ma, 4 CH	Omron	NX-DA3203	OMRON-NXDA3203	<a href="#">MOD5</a>
5	1	PLC POWER EXANSION MODULE, 4A, PUSH TERMINALS	Omron	NX-PF0630	OMRON-NX-PF0730	<a href="#">MOD2</a>
6	1	PLC, 24 I/O POINTS, NPN DO	Omron	NX1P2-9024DT	OMRON-NX1P29024DT	<a href="#">PLC1</a>
7	4	CIRCUIT BREAKER, THERMAL, TERMINAL BLOCK PLUGIN, 1A	Phoenix Contact	0712194	6203237	CB4, CB5, CB6, CB7
8	4	DIN RAIL, 35mm x 7.5mm, PERFORATED	Phoenix Contact	0801733	ELE-DIN-RAIL,	ENCL01 BPL01
9	5	Relay Module, 24VAC/DC Coil, SPDT	PHOENIX CONTACT	2966184	2966184	CR1, CR2, CR3, CR4, CR5
10	1	TERMINAL BLOCK BRIDGE, BLUE, PITCH 8.2mm, 30A	Phoenix Contact	3032583	6103297	ENCL01 BPL01
11	9	TERMINAL BLOCK, END CLAMP, GRAY	Phoenix Contact	0800886		TS1 , TFU1 , TS2 , GND1
12	4	TERMINAL BLOCK, FUSE HOLDER, 24V LED, 25A	Phoenix Contact	3212172	6203206	TFU1 1, TFU1 2, TFU1 3, TFU1 4
13	28	TERMINAL BLOCK, GRAY, 24A, 1 ROW/ 2PT, 26...12 AWG	Phoenix Contact	3209510	EL-TRM-3209510,	TS2 1000, TS2 1001, TS2 1002, TS2 1007, TS2 1601A, TS2 1607, TS2 1602, TS2 1603, TS2 1604, TS2 1606, TS2 3000, TS2 3001, TS2 3002, TS2 3003, TS2 3004, TS2 3005, TS2 3006, TS2 3007, TS2 3008, TS2 1500, TS2 1003A, TS2 1003C, TS2 1605A, TS2 1605C, TS2 1501, TS2 1601C, TS2 1601B, TS2 1008
14	8	TERMINAL BLOCK, GRAY, 24A, 1 ROW/ 4PT, 26...12 AWG	Phoenix Contact	3209578	EL-TRM-3209578	TS1 5, TS1 6, TS1 7, TS1 8, TS1 3, TS1 10, TS1 4, TS1 9
15	5	TERMINAL BLOCK, PE, GREEN/YELLOW, 24A, 1 ROW/ 4PT, 26...12 AWG	Phoenix Contact	3209594	EL-TRM-3209594	TS1 1, GND1 1, GND1 2, GND1 3, TS1 2
16	1	TERMINAL END COVER, GRAY, 1 ROW/ 2PT	Phoenix Contact	3030417	EL-TRM-3030417	<a href="#">TS2</a>
17	4	TERMINAL END COVER, GRAY, 1 ROW/ 4 PT	Phoenix Contact	3030514	EL-TRM-3030514	TS1 , GND1
18	1	ENCLOSURE BACK PANEL, 22" x 22" GALVENIZED	Rittal	WM 8018.601		ENCL01 BPL01
19	1	OVERLOAD RELAY, 3P, 1.6..2.5A, CLASS 10	Schneider Electric	LRD07	ELE-MS-OVRLD-LRD07	<a href="#">OL1</a>
20	1	CIRCUIT BREAKER, 10A, C-CURVE, 2P, BRANCH PROTECTION	Schneider Electric	M9F42210	ELE-BRK-M9F42210-10A	<a href="#">CB3</a>
21	2	CIRCUIT BREAKER, 10A, C-CURVE, 3P, BRANCH, 10kA (UL489)	Schneider Electric	M9F42310	6203213	CB1, CB2
22	1	CONTACTOR, 3P, 18A, 24VDC COIL	Schneider Electric	LC1D18BD	ELE-CONTACTOR-18A-24 VDC	<a href="#">ESR1</a>
23	1	CONTACTOR, 3P, 9A, 24VDC COIL	Schneider Electric	LC1D09BD	ELE-CONTACTOR-9A-24V	<a href="#">MS1</a>

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			REV	DATE	DESCRIPTION	DRAWN	CHKD	APPV	SCALE	PROJECT NAME: InnovateIT Reverse Osmosis ENCL01	REV 0				

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ITEM	QTY	DESCRIPTION	MFG	CATALOG - MFG	CATALOG - ICWE	Mark
24	1	DISCONNECT SWITCH HANDLE, LOCKABLE, 2 POSITION, RED/YELLOW	Socomec	147E1111	6103401	<a href="#">DS1</a>
25	1	DISCONNECT SWITCH SHAFT	Socomec	14070532	6103402	<a href="#">DS1</a>
26	1	DISCONNECT SWITCH, 3P, 600 VAC, 30A, 100kA, UL 98	Socomec	22013003	6103403	<a href="#">DS1</a>
27	1	ROUTER, VPN ACCESS NETWORK DEVICE	TOSIBOX	TBL610US	TOSIBOX	<a href="#">ENSW1</a>

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REV	DATE	DESCRIPTION	DRAWN	CHKD	APPV	SCALE
0	4/6/2020	INITIAL RELEASE	JJK		JJK	

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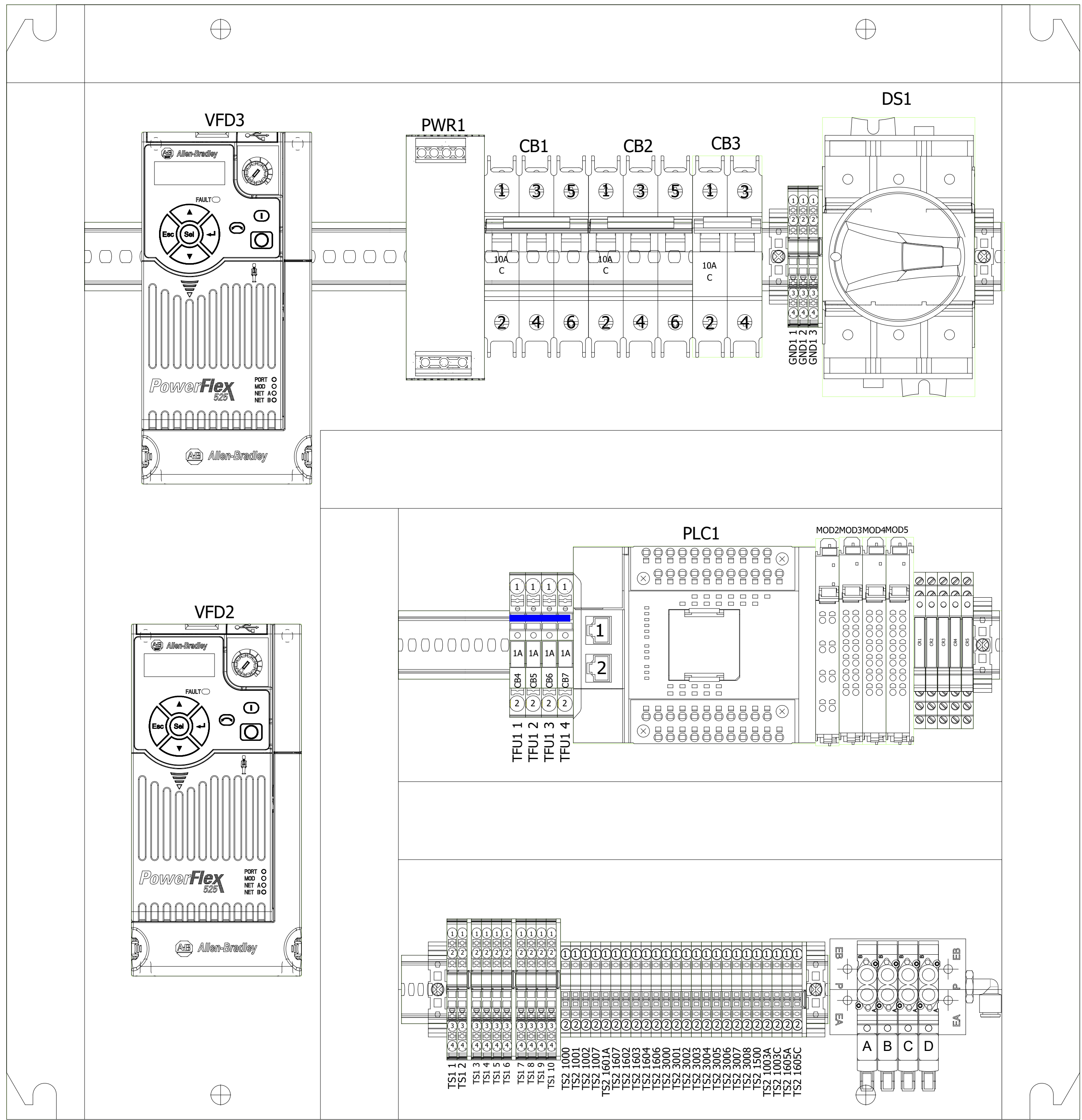
DRAWING NAME: MAIN ENCLOSURE (LVPC-01) ENCLOSURE BILL OF MATERIALS	DWG. SIZE D SHEET 3
PROJECT NAME: InnovateIT Reverse Osmosis ENCL01	REV 0

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 DECIMAL 2 PLC. +/- .01"  
 DECIMAL 3 PLC. +/- .005"  
 FRACTIONAL +/- 1/64"  
 ANGLES +/- .5"

FOR FABRICATION WELDMENTS,  
 SAWCUTS, BENDS ETC.:  
 FRACTIONAL +/- 1/16"  
 ANGLES +/- 1"

DRAWING REFS.

0	4/6/2020	INITIAL RELEASE	JJK	JJK
REV	DATE	DESCRIPTION	DRAWN	CHKD

0	4/6/2020	INITIAL RELEASE	JJK	JJK
REV	DATE	DESCRIPTION	DRAWN	CHKD

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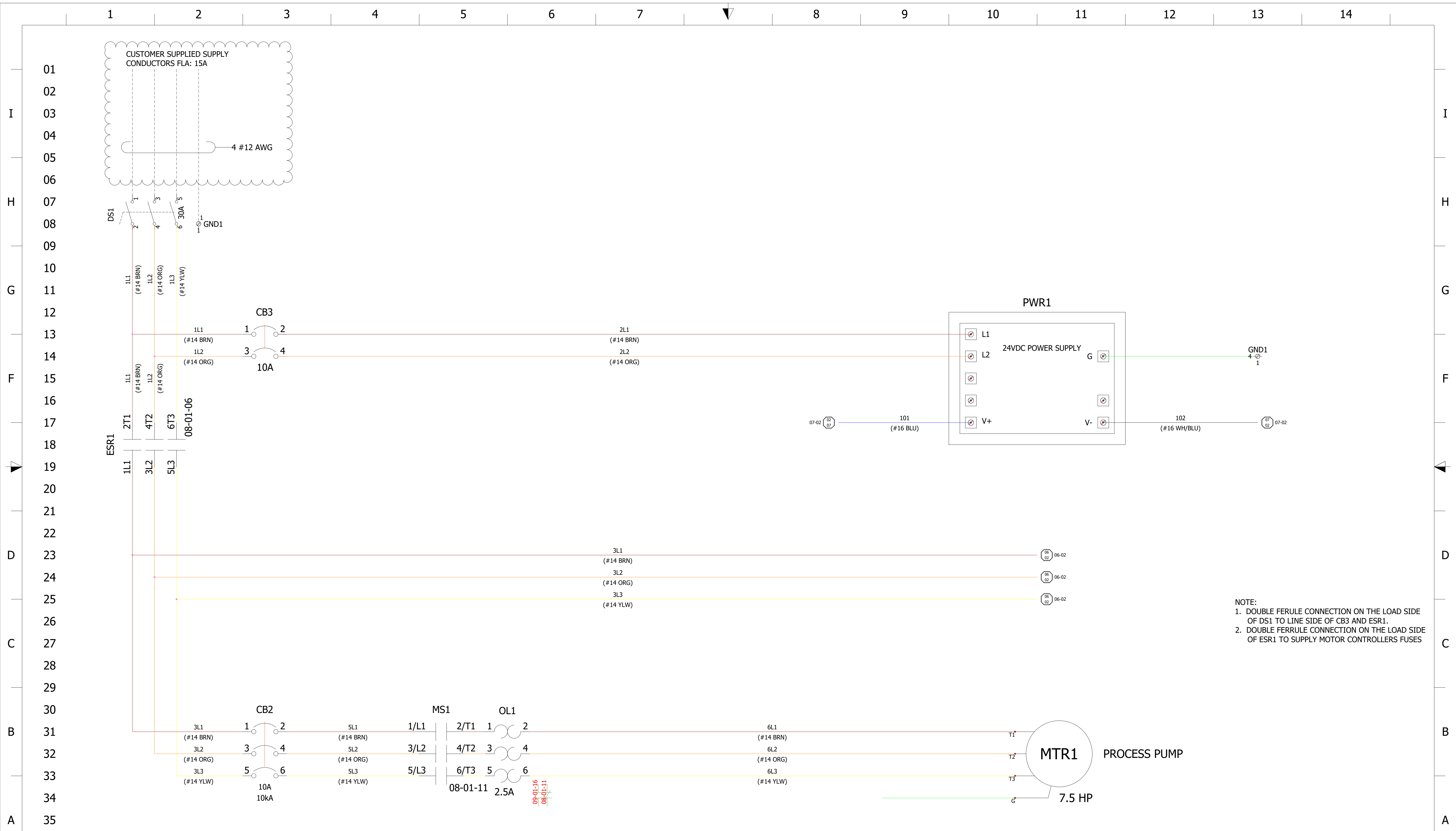
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DRAWING NAME:  
**MAIN ENCLOSURE (LVPC-01)**  
**ENCLOSURE BACK PLANE DETAILS**

PROJECT NAME:  
 InnovateIT Reverse Osmosis ENCL01

DWG. SIZE  
 D  
 SHEET  
 4  
 REV  
 0

1 2 3 4 5 6 7 8 9 10 11 12 13 14



NOTE:  
 1. DOUBLE FERRULE CONNECTION ON THE LOAD SIDE OF DS1 TO LINE SIDE OF CB3 AND ESR1.  
 2. DOUBLE FERRULE CONNECTION ON THE LOAD SIDE OF ESR1 TO SUPPLY MOTOR CONTROLLERS FUSES

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 DECIMAL 2 PLC. +/- .01"  
 DECIMAL 3 PLC. +/- .005"  
 FRACTIONAL ANGLES +/- 1/64"  
 FRACTIONAL ANGLES +/- .5"

FOR MACHINED SURFACES:  
 DECIMAL 1 PLC. +/- .03"  
 DECIMAL 2 PLC. +/- .01"  
 DECIMAL 3 PLC. +/- .005"  
 FRACTIONAL ANGLES +/- 1/64"  
 FRACTIONAL ANGLES +/- .5"

FOR FABRICATION WELDMENTS,  
 SAWCUTS, BENDS ETC.  
 FRACTIONAL ANGLES +/- 1/16"  
 ANGLES +/- 1"

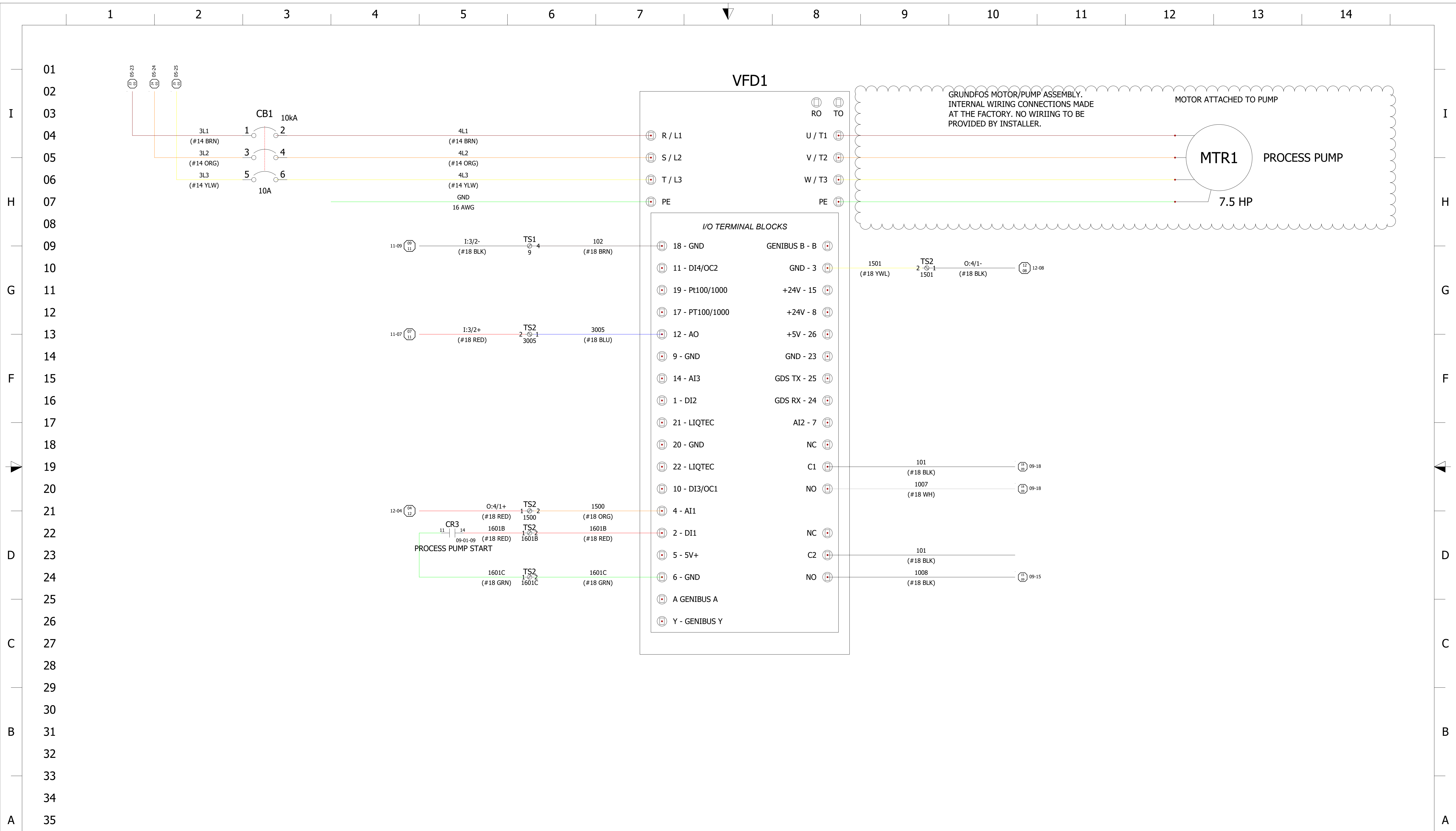
DRAWING REFS.

0	4/6/2020	INITIAL RELEASE	JJK	JJK
REV	DATE	DESCRIPTION	DRAWN	CHKD

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 Albany, NY 12205  
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DRAWING NAME: MAIN ENCLOSURE (LVPC-01) 460VAC POWER DISTRIBUTION	DWG. SIZE D
PROJECT NAME: InnovateIT Reverse Osmosis	SHEET 5
ENCL01	REV 0



UNLESS OTHERWISE NOTED:  
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 2) BREAK ALL SHARP EDGES  
 3) TOLERANCES (NON ACCUMULATIVE):

FOR MACHINED SURFACES:		FOR FABRICATION WELDMENTS, SAWCUTS, BENDS ETC.:	
DECIMAL 1 PLC.	+/- .03"	FRACTIONAL	+/- 1/16"
DECIMAL 2 PLC.	+/- .01"	ANGLES	+/- 1°
DECIMAL 3 PLC.	+/- .005"		
FRACTIONAL	+/- .005"		
ANGLES	+/- .5°		

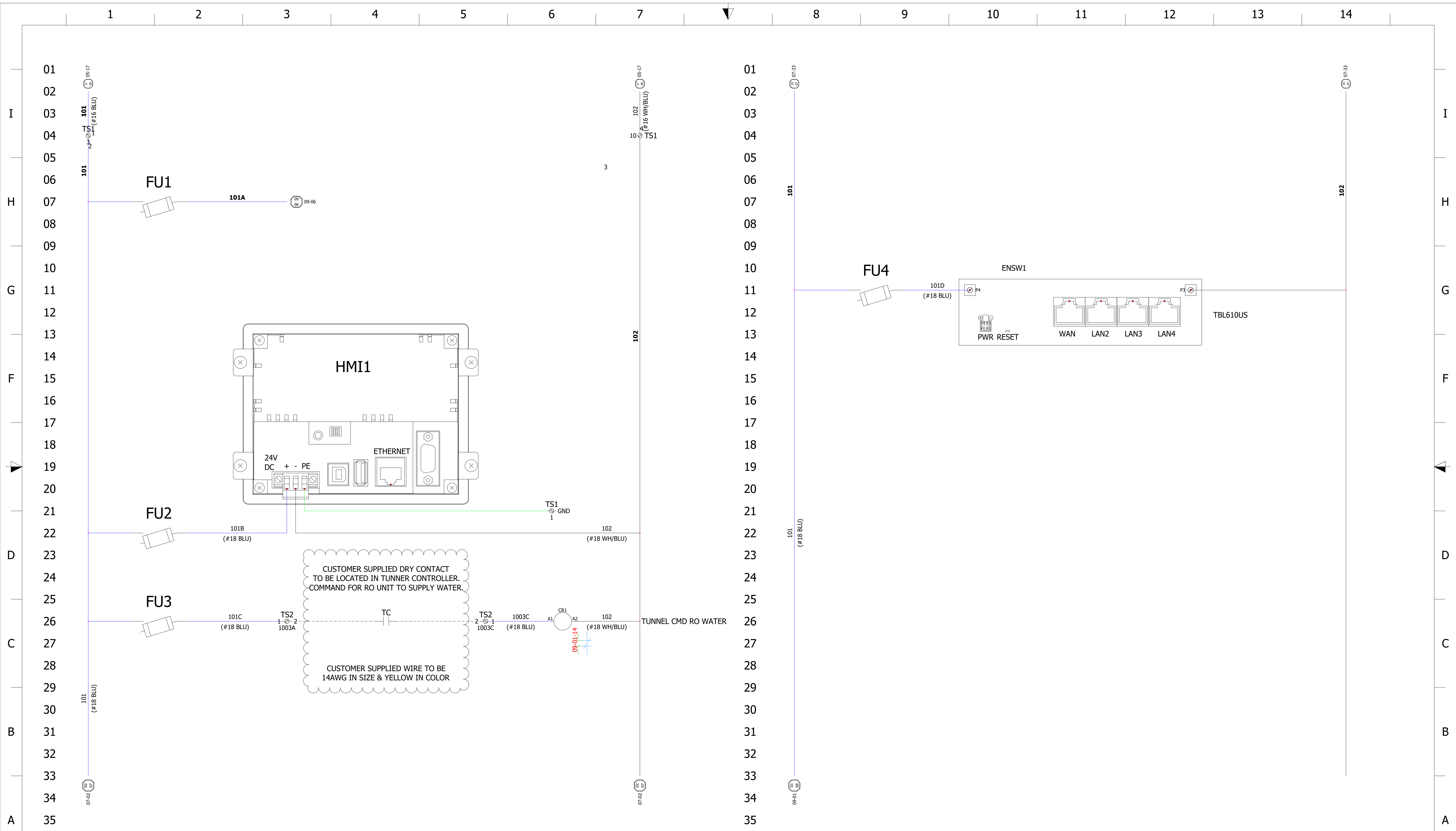
DRAWING REFS.

REV	DATE	DESCRIPTION	DRAWN	CHKD	APPV
0	4/6/2020	INITIAL RELEASE	JJK		JJK

INNOVATEIT		
16 Kairnes Street		
Albany, NY 12205		
(518) 741- 4200		
SCALE		

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DRAWING NAME: MAIN ENCLOSURE (LVPC-01) 460VAC - VARIABLE FREQUENCY DRIVE 01		DWG. SIZE D SHEET 6
PROJECT NAME: InnovateIT Reverse Osmosis ENCL01		REV 0



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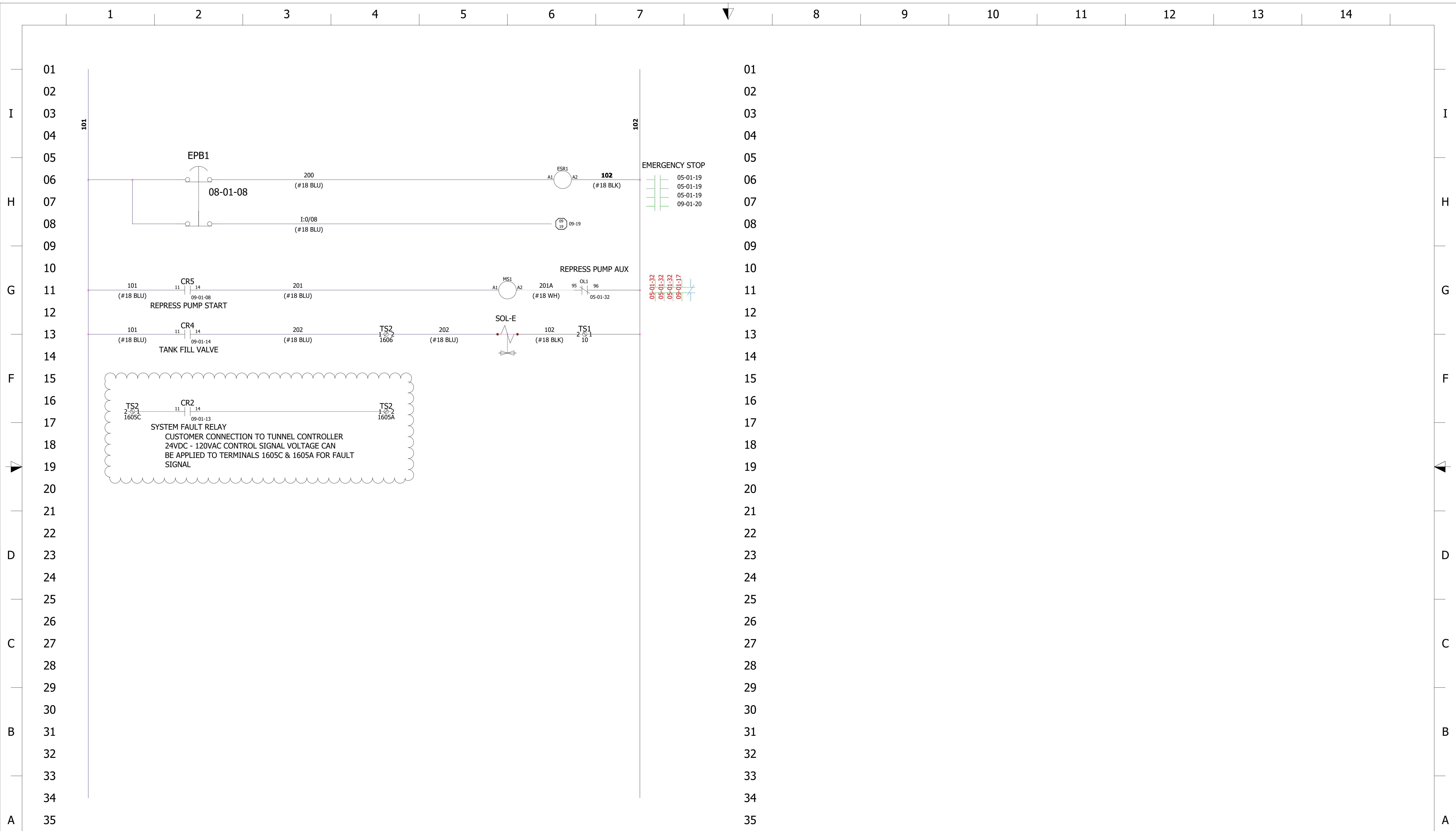
FOR MACHINED SURFACES:	FOR FABRICATION WELDMENTS, SAWCUTS, BENDS ETC.:
DECIMAL 1 PLC. +/- .03"	FRACTIONAL +/- 1/16"
DECIMAL 2 PLC. +/- .01"	ANGLES +/- 1°
DECIMAL 3 PLC. +/- .005"	
FRACTIONAL +/- 1/64"	
ANGLES +/- .5°	

DRAWING REFS.

REV	DATE	DESCRIPTION	DRAWN	CHKD	APPV	SCALE
0	2/23/2023		tew			

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DRAWING NAME	DWG. SIZE
24VDC - POWER DISTRIBUTION DETAILS	D
DRAWING NO:	SHEET
	7
	REV
	0



UNLESS OTHERWISE NOTED:  
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 3) TOLERANCES (NON ACCUMULATIVE):

FOR MACHINED SURFACES:		FOR FABRICATION WELDMENTS, SAWCUTS, BENDS ETC.:	
DECIMAL 1 PLC.	+/- .03"	FRACTIONAL	+/- 1/16"
DECIMAL 2 PLC.	+/- .01"	ANGLES	+/- 1°
DECIMAL 3 PLC.	+/- .005"		
FRACTIONAL	+/- 1/64"		
ANGLES	+/- .5°		

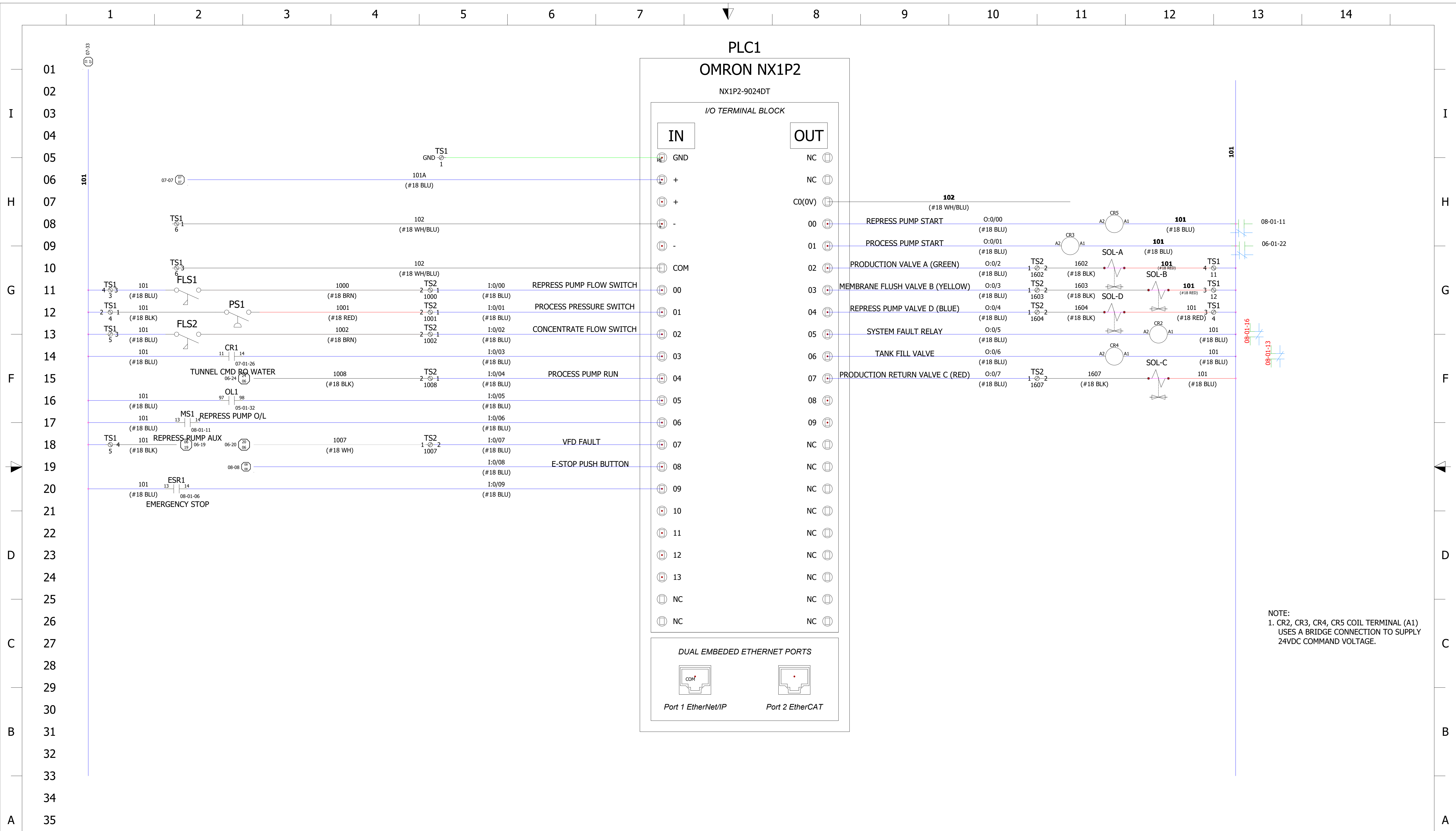
**DRAWING REFS.**

REV	DATE	DESCRIPTION	DRAWN	CHKD	APPV
0	2/24/2023		tew		

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<b>DRAWING NAME</b> 24VDC CONTROL DETAILS	<b>DWG. SIZE</b> D
<b>DRAWING NO.:</b>	<b>SHEET</b> 8
	<b>REV</b> 0



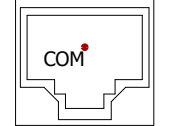


**PLC1**  
**OMRON NX1P2**  
NX1P2-9024DT

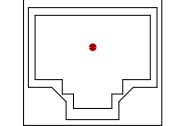
I/O TERMINAL BLOCK

IN	OUT
GND	NC
+	NC
+	CO(0V)
-	00
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COM	02
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10	13
11	NC
12	NC
13	NC
NC	NC
NC	NC

DUAL EMBEDDED ETHERNET PORTS



Port 1 EtherNet/IP



Port 2 EtherCAT

NOTE:  
1. CR2, CR3, CR4, CR5 COIL TERMINAL (A1)  
USES A BRIDGE CONNECTION TO SUPPLY  
24VDC COMMAND VOLTAGE.

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3) TOLERANCES (NON ACCUMULATIVE):

FOR MACHINED SURFACES:	FOR FABRICATION WELDMENTS, SAWCUTS, BENDS ETC.:
DECIMAL 1 PLC. +/- .03"	FRACTIONAL +/- 1/16"
DECIMAL 2 PLC. +/- .01"	ANGLES +/- 1°
DECIMAL 3 PLC. +/- .005"	
FRACTIONAL +/- 1/64"	
ANGLES +/- .5°	

DRAWING REFS.

REV	DATE	DESCRIPTION	DRAWN	CHKD	APPV
0	4/6/2020	INITIAL RELEASE	JJK		JJK

0	4/6/2020	INITIAL RELEASE	JJK	JJK
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DRAWING NAME:  
**MAIN ENCLOSURE (LVPC-01)**  
24VDC - PLC LOCAL I/O DETAILS

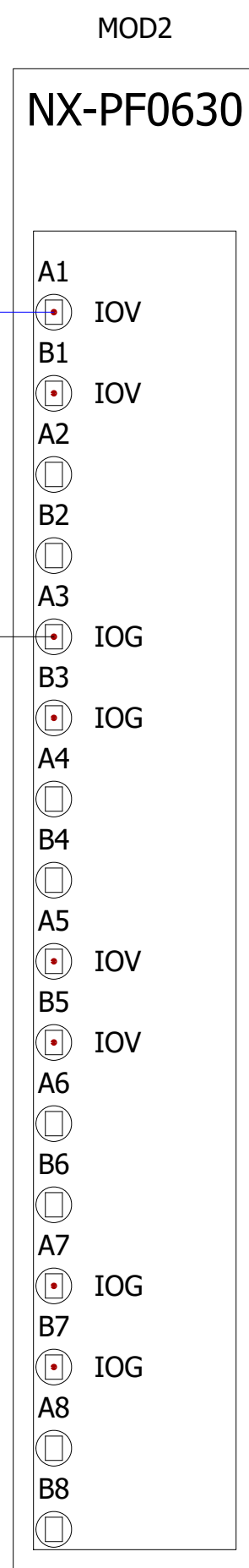
PROJECT NAME:  
InnovateIT Reverse Osmosis ENCL01

DWG. SIZE	D
SHEET	9
REV	0

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UNLESS OTHERWISE NOTED:  
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2) BREAK ALL SHARP EDGES  
3) TOLERANCES (NON ACCUMULATIVE):

FOR MACHINED SURFACES:  
DECIMAL 1 PLC. +/- .03"  
DECIMAL 2 PLC. +/- .01"  
DECIMAL 3 PLC. +/- .005"  
FRACTIONAL +/- 1/64"  
ANGLES +/- .5"

FOR FABRICATION WELDMENTS,  
SAWCUTS, BENDS ETC.:  
FRACTIONAL +/- 1/16"  
ANGLES +/- 1"

DRAWING REFS.

0	2/24/2023		tew				
REV	DATE	DESCRIPTION	DRAWN	CHKD	APPV	SCALE	

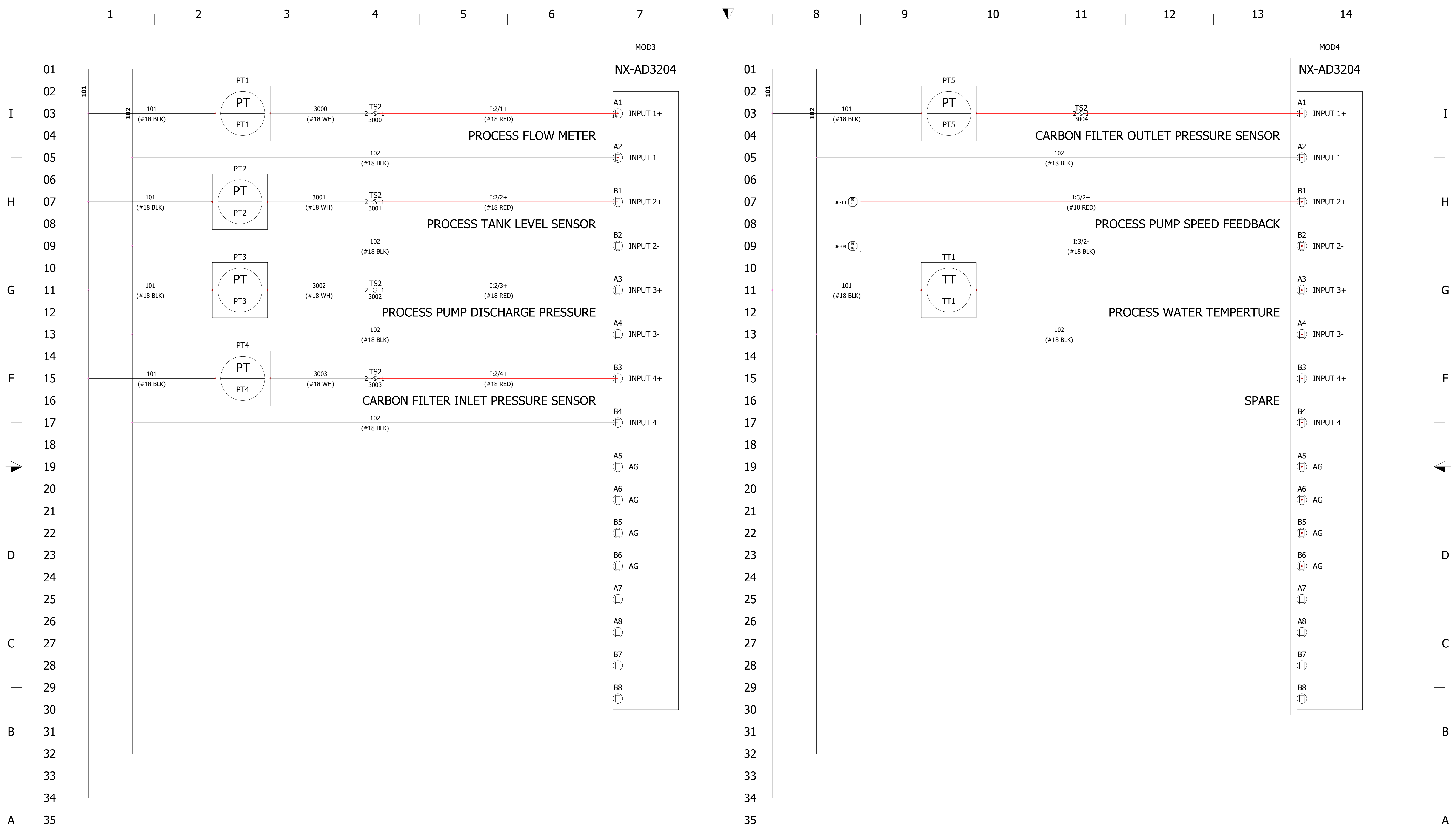
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DRAWING NAME  
PLC MOD 01 - I/O POWER DISTRIBUTION

DRAWING NO:

DWG. SIZE  
D  
SHEET  
10  
REV  
0

1 2 3 4 5 6 7 8 9 10 11 12 13 14



UNLESS OTHERWISE NOTED:  
 1) ALL DIMENSIONS ARE IN INCHES  
 2) BREAK ALL SHARP EDGES  
 3) TOLERANCES (NON ACCUMULATIVE):  
 DECIMAL 1 PLC. +/- .03"  
 DECIMAL 2 PLC. +/- .01"  
 DECIMAL 3 PLC. +/- .005"  
 FRACTIONAL +/- 1/64"  
 ANGLES +/- .5°

FOR MACHINED SURFACES:  
 DECIMAL 1 PLC. +/- .03"  
 DECIMAL 2 PLC. +/- .01"  
 DECIMAL 3 PLC. +/- .005"  
 FRACTIONAL +/- 1/64"  
 ANGLES +/- .5°

FOR FABRICATION WELDMENTS,  
 SAWCUTS, BENDS ETC.  
 FRACTIONAL +/- 1/16"  
 ANGLES +/- 1°

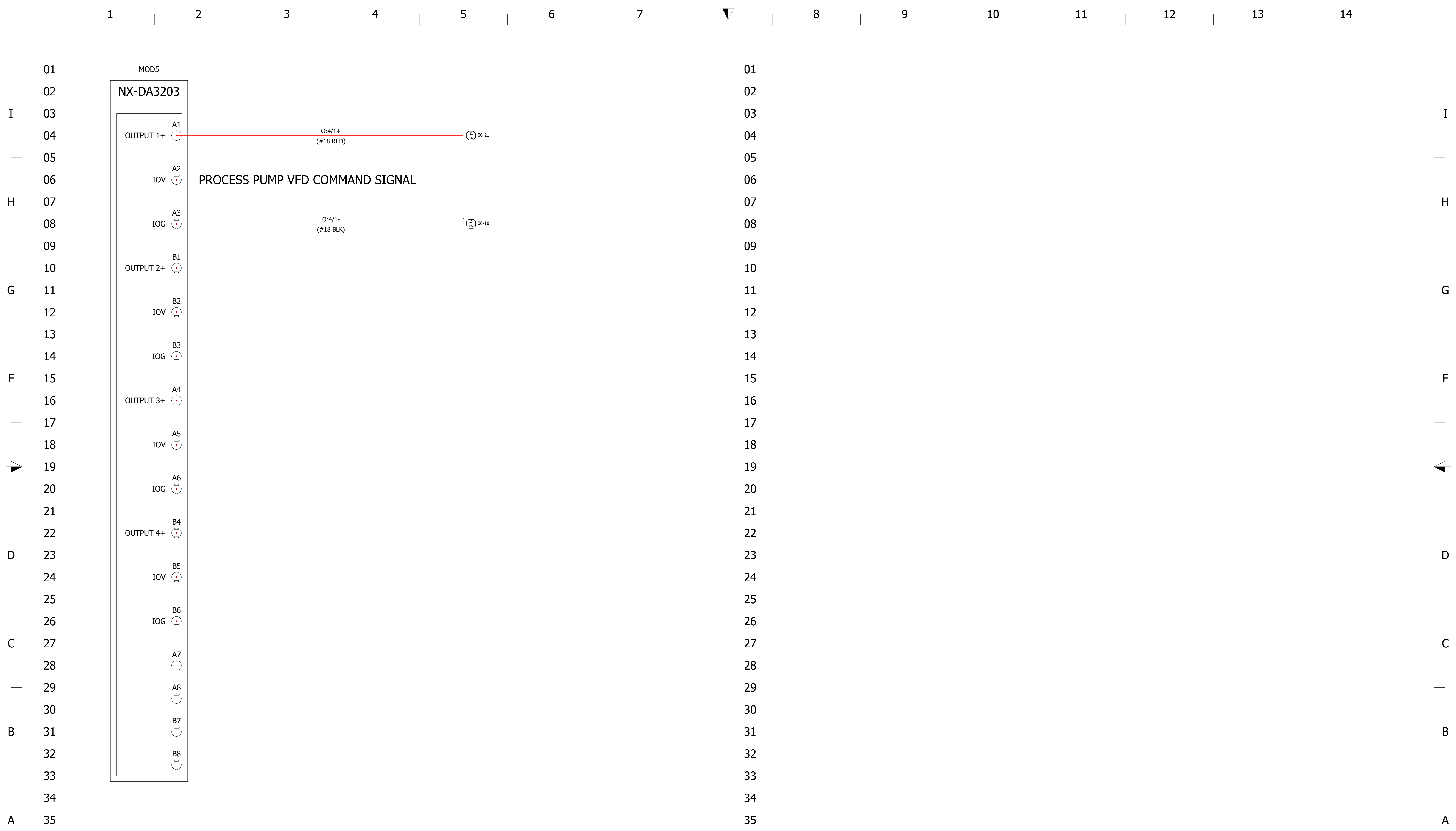
DRAWING REFS.

0	2/24/2023		tew			
REV	DATE	DESCRIPTION	DRAWN	CHKD	APPV	SCALE

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DRAWING NAME  
 PLC MODULE 03 & 04 - ANALOG INPUTS  
 DRAWING NO:

DWG. SIZE  
 D  
 SHEET  
 11  
 REV  
 0



UNLESS OTHERWISE NOTED:  
 1) ALL DIMENSIONS ARE IN INCHES  
 2) BREAK ALL SHARP EDGES  
 3) TOLERANCES (NON ACCUMULATIVE):

FOR MACHINED SURFACES:  
 DECIMAL 1 PLC. +/- .03"  
 DECIMAL 2 PLC. +/- .01"  
 DECIMAL 3 PLC. +/- .005"  
 FRACTIONAL +/- 1/64"  
 ANGLES +/- .5"

FOR FABRICATION WELDMENTS,  
 SAWCUTS, BENDS ETC.:  
 FRACTIONAL +/- 1/16"  
 ANGLES +/- 1"

DRAWING REFS.

0	2/24/2023		tew		

REV	DATE	DESCRIPTION	DRAWN	CHKD	APPV	SCALE

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DRAWING NAME PLC MODULE 05 - ANALOG OUTPUTS	DWG. SIZE D
DRAWING NO:	SHEET 12
	REV 0

1 2 3 4 5 6 7 8 9 10 11 12 13 14

01  
02  
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A 34  
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