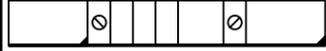
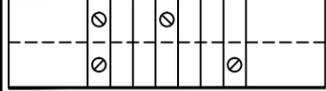


BILL OF MATERIALS										PROJECT SPECIFIC LEGEND			
MARK	COUNT	DESCRIPTION	MANUFACTURER	MODEL	MARK	COUNT	DESCRIPTION	MANUFACTURER	MODEL				
1	37	CARTRIDGE STYLE FUSEHOLDER	PHOENIX CONTACT	3048580	36	22	DOUBLE LEVEL PARTITION PLATE	PHOENIX CONTACT	3047316	 - AC FUSED TERMINAL BLOCK  - DC FUSED TERMINAL BLOCK  - TERMINAL BLOCK, UT4-MTD  - GROUND TERMINAL BLOCK  - DOUBLE LEVEL TERMINAL BLOCK			
2	1	1734 ETHERNET/IP ADAPTER	AB	1734-AENT	37		NUMBER NOT USED						
3	3	1734 SINK INPUT MODULE	AB	1734-IB8	38	4	RED JUMPER 20 PIN	PHOENIX CONTACT	3030365				
4	1	1734 PROTECTED SOURCE OUTPUT DIGITAL DC MODULE	AB	1734-OB8	39	1	3' BLUE CAT5 CABLE	FIS	CT608003BU				
5	8	4-CH CURRENT AND HART PROTOCOL INPUT	SPECTRUM	1734SC-IE4CH	40		NUMBER NOT USED						
6	2	Ethernet switch, 5 TP RJ45 ports	PHOENIX CONTACT	2891152	41	1	POINT I/O POWER SUPPLY	AB	1734-EP24DC				
7	1	POWER SUPPLY, 24VDC, 10A	PULS	QS10.241	42	3	2 CH. CURRENT OUTPUT HART MODULE	AB	1734SC-OE2CIH				
8	13	TERMINAL BASE UNIT	AB	1734-TBS	43	14	TERMINAL BLOCK, DOUBLE LEVEL, 1/2 GROUND	PHOENIX CONTACT	3044746				
9	8	PLC RELAY, SPDT, 24V, 6A, C1D2	PHOENIX CONTACT	5603154	44	16	DOUBLE LEVEL SPACER PLATE, DP UTTB 2, 5/4	PHOENIX CONTACT	3047303				
10	1	GROUND BUS BAR	SIEMENS	ECGB10	45	1	RELAY JUMPER	PHOENIX CONTACT	2966786				
11	50 SQ. IN.	GRAVOPLY BLACK W/WHITE LETTERING	GRAVOPLY	GRAVOPLY	46	3	10 POS. RED JUMPER	PHOENIX CONTACT	3030271				
12	1	CONCEPT WALL-MOUNT ENCLOSURE	HOFFMAN	CSD483610LG	47	3	5 POS. RED JUMPER	PHOENIX CONTACT	3030349				
13	1	48" X 36" BACK PANEL	HOFFMAN	CP4836	48	1	2 POS. RED JUMPER	PHOENIX CONTACT	3030336				
14	1	MOUNTING FOOT KIT	HOFFMAN	CMFK	49	1	VERTICAL POTENTIAL BRIDGE	PHOENIX CONTACT	3047358				
15	1	LARGE PRINT PACKET	HOFFMAN	ADP2	50	10	TERMINAL BLOCK, DOUBLE LEVEL, GROUND	PHOENIX CONTACT	3044759				
16	2	ETHERNET PUNCHDOWN BLOCK	PHOENIX CONTACT	1658118	51		NUMBER NOT USED						
17	1	PUSHBUTTON GUARD	EATON	10250ED1241	52	1	POWER SUPPLY, 24VDC, 20A	PULS	QS20.241				
18		NUMBER NOT USED											
19		NUMBER NOT USED											
20	10	TERMINAL BLOCK, GROUND, SINGLE LEVEL	PHOENIX CONTACT	3046207									
21	26	END ANCHOR, E/NS 35N	PHOENIX CONTACT	0800886									
22	1	FUSE, SLOW ACTING, 5 AMP	FERRAZ SHAWMUT	ATDR5									
23	1	FUSE, SLOW ACTING, 4 AMP	FERRAZ SHAWMUT	ATDR4									
24	14	FUSE, SLOW ACTING, 1 AMP	FERRAZ SHAWMUT	ATDR1									
25	1	FUSE, FAST ACTING, 10 AMP	FERRAZ SHAWMUT	ATMR10									
26	3	FUSE, FAST ACTING, 3 AMP	FERRAZ SHAWMUT	ATMR3									
27	78	TERMINAL BLOCK, DOUBLE LEVEL, UTTB 4	PHOENIX CONTACT	3044814									
28	2	TERMINAL BLOCK, UNIVERSAL, UK 10 N	PHOENIX CONTACT	3005073									
29	7	FUSE, FAST ACTING, 1 AMP	FERRAZ SHAWMUT	ATMR1									
30	10	FUSE, FAST ACTING, 1/2 AMP	FERRAZ SHAWMUT	ATMR1/2									
31	1	TERMINAL BLOCK, SINGLE LEVEL, UK10, GROUND	PHOENIX CONTACT	3003923									
32	2	5' RED CAT5 CABLE	FIS	CT608005RD									
33	1	JUMPER BAR, EB 56-18	PHOENIX CONTACT	3009299									
34	4	MARKER CARRIERS, UBE/D	PHOENIX CONTACT	0800307									
35	3	UK10 END CAP	PHOENIX CONTACT	3003020									

cUL C1D2

SHOP AS-BUILT

PROJECT SPECIFIC NOTES

NOTES: GENERAL

1 - MAIN DISCONNECT AND BRANCH CIRCUIT PROTECTION TO BE PROVIDED BY OTHERS.

2 - FIELD WIRING SHALL BE MTW RATED FOR 105°C.

3 - CONDUIT HUBS SHALL BE OF SAME RATING AS ENCLOSURE.

4 - USE TINNED COPPER CONDUCTORS ONLY.

3	11/8/14	UPDATES	RB	KM	DESIGNED	DRAFTED
2	10/28/14	UPDATES	RB	KM	SMT	
1	8/6/14	PARTS REVIEW	CB	KM	P.O. NO.:	
4	11/19/14	UPDATES	RB	KM	SCALE:	NONE
NO.	DATE	REVISION	BY	DR.		
CAD FILE: D29894-01-BOM		DATE: 11/19/14				

IF THIS BAR DOES NOT EQUAL ONE INCH ADJUST SCALES ACCORDINGLY

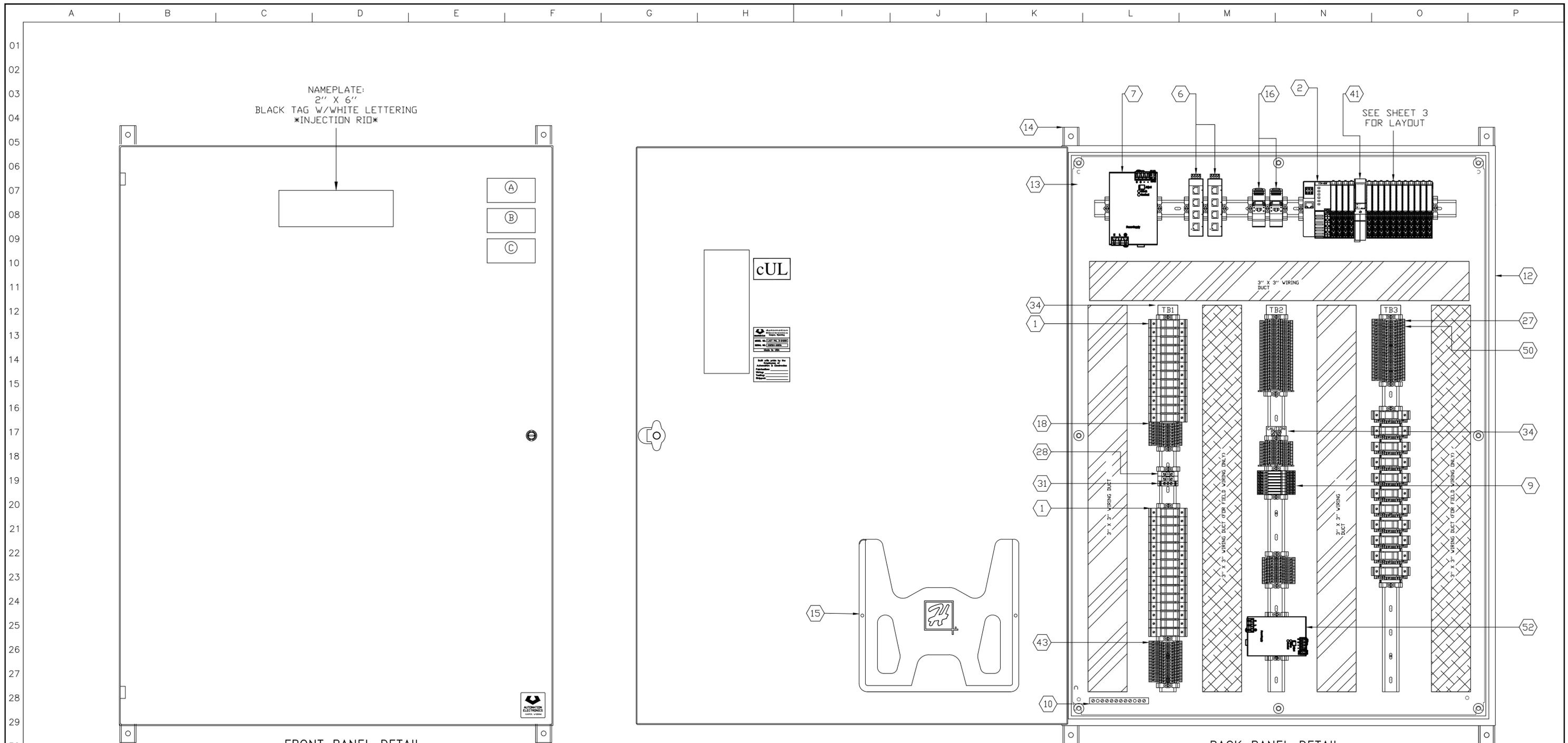
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AUTOMATION & ELECTRONICS, INC.
CASPER WYOMING

TITLE: **ARC POLYMER PLANT BILL OF MATERIALS, NOTES, AND LEGEND REMOTE I/O PANEL**

CUSTOMER: FABRICATION TECHNOLOGIES, INC.	
SHEET 1 OF 13	DRAWING NUMBER: D-29894
JOB NO.: 7103-03_08	REV. 4



FRONT PANEL DETAIL

BACK PANEL DETAIL

NOTE:
SEE SHEET 1 FOR
BILL OF MATERIAL
NOTES AND LEGEND

3.5"H X 4"W
BLACK TAG WITH
1/4" WHITE
LETTERING

INJECTION REMOTE I/O PANEL
AUTOMATION & ELECTRONICS INC.
110 VAC/60Hz/1Ø 15A
CLASS 1 DIVISION 2 GROUPS B,C,D
OPERATING TEMPERATURE CLASS T4
REFERENCE DRAWING D-29894
NEMA TYPE 4, 12
SCCR: 10kA RMS SYMMETRICAL
120V MAXIMUM

SS SCREWS

DETAIL "A"

3"H X 4"W
RED TAG WITH
1/4" WHITE
LETTERING

PANEL DISCONNECTING MEANS
PROVIDED BY OTHERS

SS SCREWS

DETAIL "B"

3"H X 4"W
RED TAG WITH
1/4" WHITE
LETTERING

WARNING:
DO NOT REMOVE OR REPLACE FUSES
WHILE CIRCUIT IS LIVE UNLESS THE
AREA IS KNOWN TO BE FREE OF IGNITABLE
CONCENTRATIONS OF FLAMMABLE SOURCES.

SS SCREWS

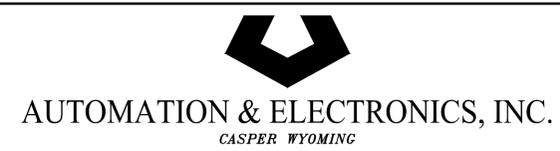
DETAIL "C"

WHERE TO PUT
TERMINAL BLOCKS FOR
FCV-320-3307?
(POWER AND AI)

SHOP AS-BUILT

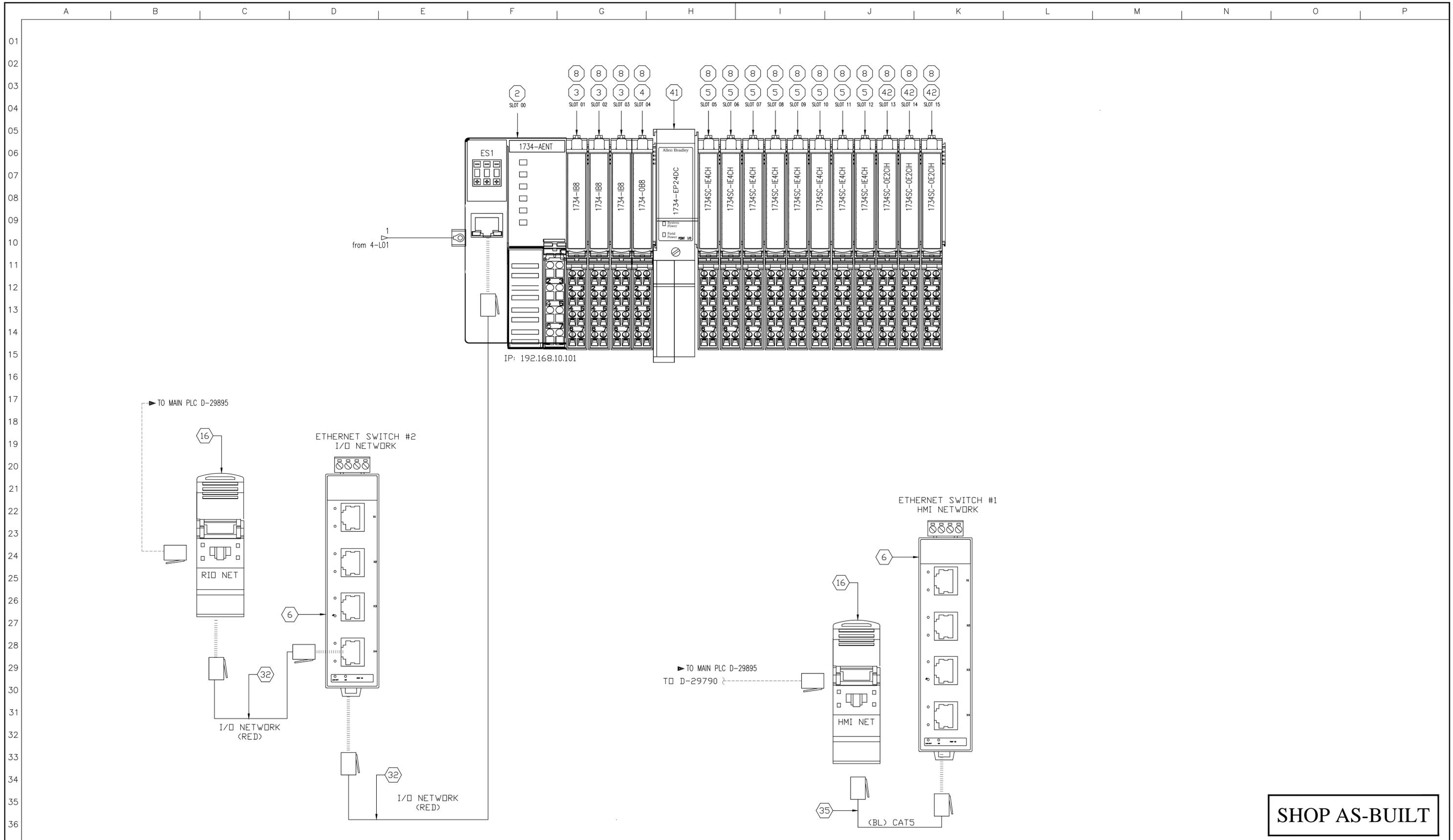
3	11/6/14	UPDATES	RB	KM	DESIGNED	DRAFTED	IF THIS BAR DOES NOT EQUAL ONE INCH ADJUST SCALES ACCORDINGLY	This drawing is the exclusive property of Automation & Electronics, Inc., and is loaned to the recipient for their confidential use only. As consideration the recipient agrees that it will not be used in any manner detrimental to the interests of Automation & Electronics, Inc., also that it shall be returned upon request, and shall not be reproduced, disposed of, or altered in any way without the written consent of Automation & Electronics, Inc.
2	10/28/14	UPDATES	RB	KM	SMT	KM		
1	8/6/14	PARTS REVIEW	CW	KM	P.O. NO.:			
4	11/19/14	UPDATES	RB	KM	SCALE:			
NO.	DATE	REVISION	BY	DR.	SCALE:		NONE	
CAD FILE: D29894-02-48X36-PL			DATE: 11/19/14					

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EMAIL:
sales@autoelect.com



TITLE:
**ARC POLYMER PLANT
PANEL LAYOUT**
REMOTE I/O PANEL

CUSTOMER: FABRICATION TECHNOLOGIES, INC.		REV.:
SHEET 2 OF 13	DRAWING NUMBER: D-29894	4
JOB NO.: 7103-03_08		



SHOP AS-BUILT

3	11/6/14	UPDATES	RB	KM	DESIGNED	DRAFTED	IF THIS BAR DOES NOT EQUAL ONE INCH ADJUST SCALES ACCORDINGLY 	This drawing is the exclusive property of Automation & Electronics, Inc., and is loaned to the recipient for their confidential use only. As consideration the recipient agrees that it will not be used in any manner detrimental to the interests of Automation & Electronics, Inc., also that it shall be returned upon request, and shall not be reproduced, disposed of, or altered in any way without the written consent of Automation & Electronics, Inc.
2	10/28/14	UPDATES	RB	KM	SMT	KM		
1	8/6/14	PARTS REVIEW	CW	KM	P.O. NO.:			
4	11/19/14	UPDATES	RB	KM	SCALE:			
NO.	DATE	REVISION	BY	DR.	SCALE:		NONE	
CAD FILE: D29894-03-1734-COM			DATE: 11/19/14					

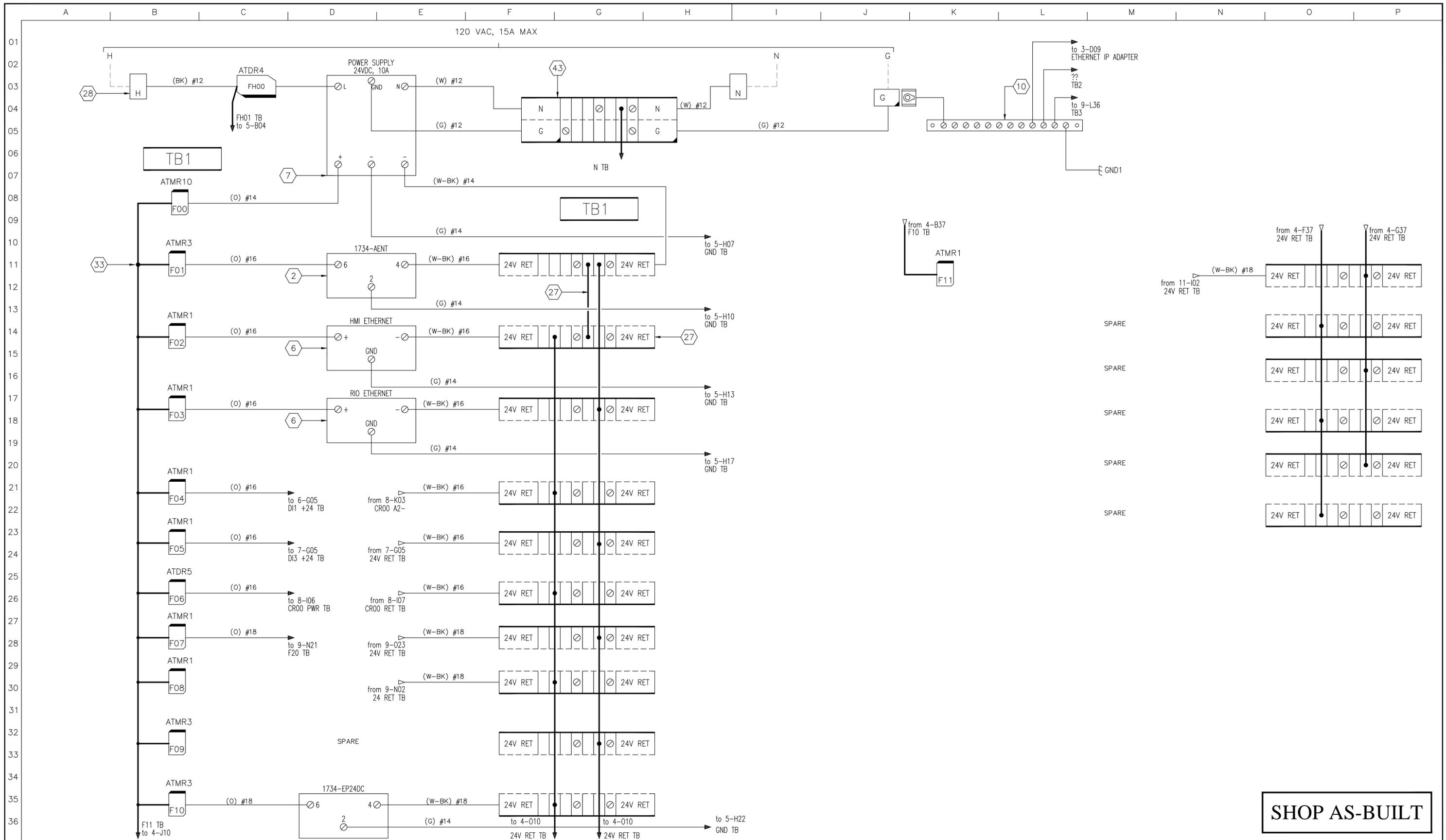
DESIGNED: RB KM
 DRAFTED: KM
 SMT: KM
 P.O. NO.:
 SCALE: NONE

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AUTOMATION & ELECTRONICS, INC.
 CASPER WYOMING

TITLE: **ARC POLYMER PLANT COMMUNICATION ARCHITECTURE**
REMOTE I/O PANEL

CUSTOMER: FABRICATION TECHNOLOGIES, INC.		REV.:
SHEET 3 OF 13	DRAWING NUMBER: D-29894	4
JOB NO.: 7103-03_08		



3	11/6/14	UPDATES	RB	KM	DESIGNED	DRAFTED
2	10/28/14	UPDATES	RB	KM	SMT	KM
1	8/6/14	PARTS REVIEW	CW	KM	P.O. NO.:	
4	11/19/14	UPDATES	RB	KM	SCALE:	NONE
NO.	DATE	REVISION	BY	DR.		
CAD FILE: D29894-04-PWR-UW			DATE: 11/19/14			

IF THIS BAR DOES NOT EQUAL ONE INCH ADJUST SCALES ACCORDINGLY

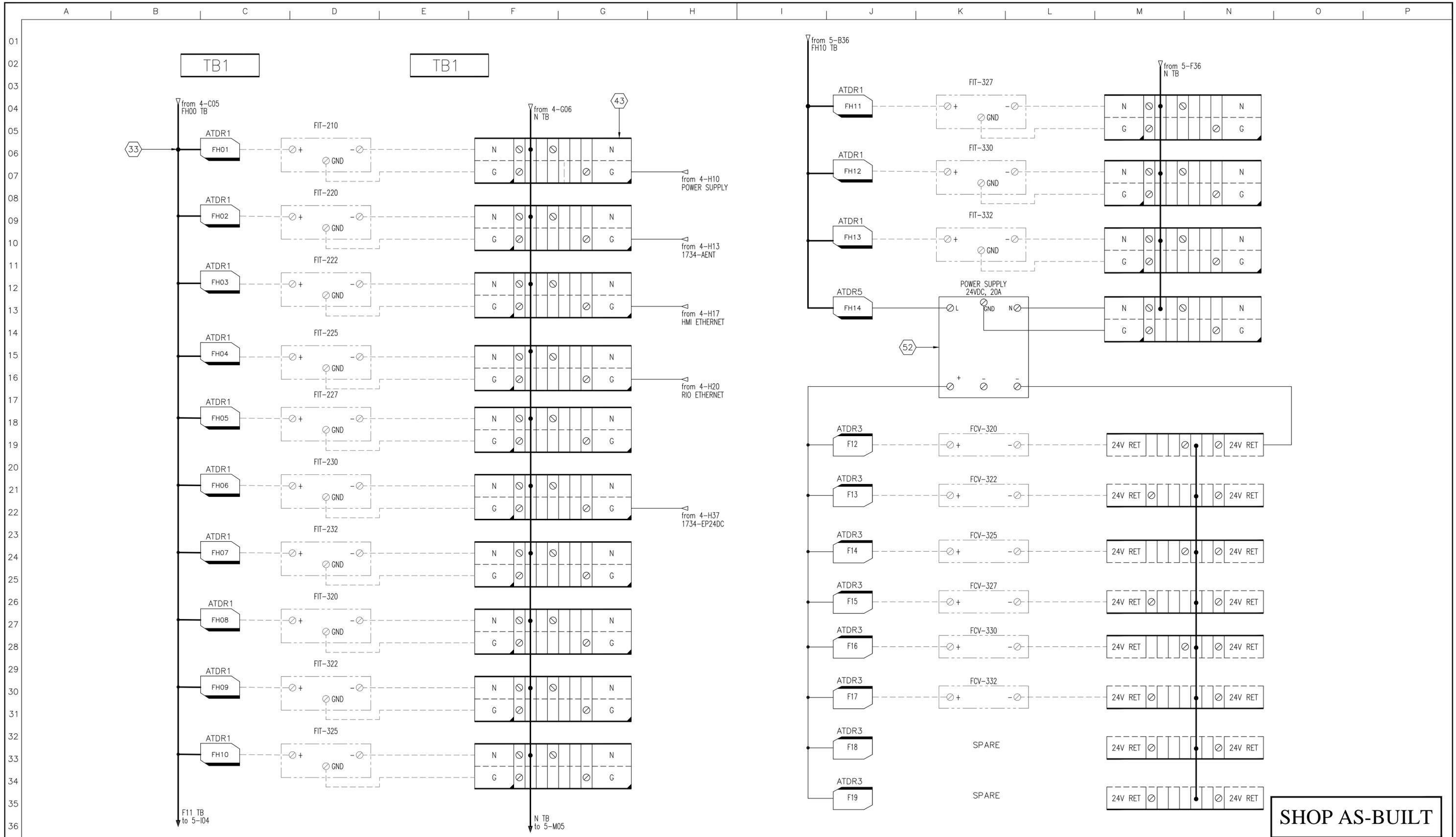
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TITLE: **ARC POLYMER PLANT POWER**
REMOTE I/O PANEL

CUSTOMER: FABRICATION TECHNOLOGIES, INC.		
SHEET 4 OF 13	DRAWING NUMBER: D-29894	REV. 4
JOB NO.: 7103-03_08		



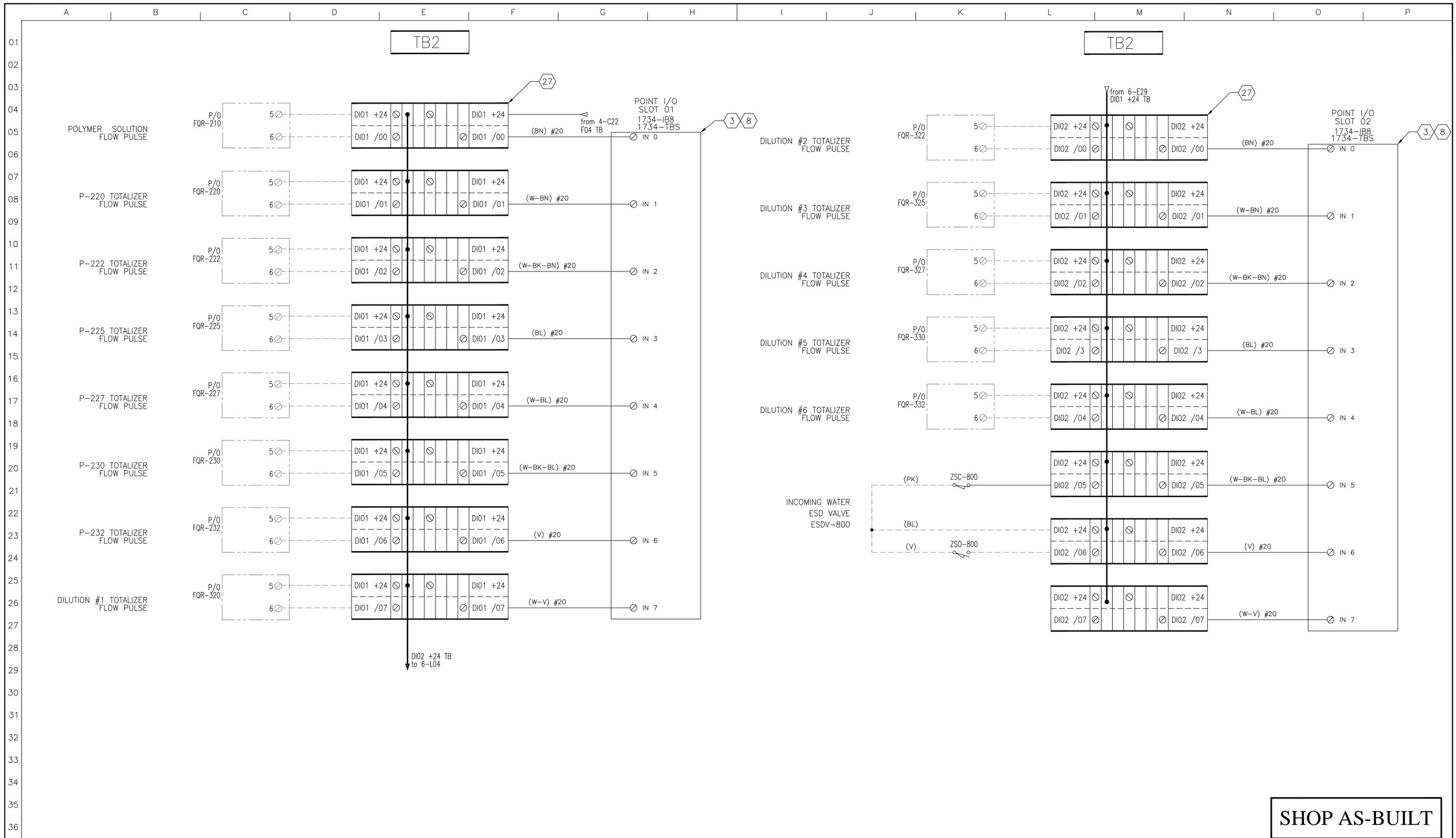
3	11/6/14	UPDATES	RB	KM	DESIGNED	DRAFTED	IF THIS BAR DOES NOT EQUAL ONE INCH ADJUST SCALES ACCORDINGLY THIS DRAWING IS THE EXCLUSIVE PROPERTY OF AUTOMATION & ELECTRONICS, INC. AND IS LOANED TO THE RECIPIENT FOR THEIR CONFIDENTIAL USE ONLY. AS CONSIDERATION THE RECIPIENT AGREES THAT IT WILL NOT BE USED IN ANY MANNER DETRIMENTAL TO THE INTERESTS OF AUTOMATION & ELECTRONICS, INC. ALSO THAT IT SHALL BE RETURNED UPON REQUEST, AND SHALL NOT BE REPRODUCED, DISPOSED OF, OR ALTERED IN ANY WAY WITHOUT THE WRITTEN CONSENT OF AUTOMATION & ELECTRONICS, INC.
2	10/28/14	UPDATES	RB	KM	SMT	KM	
1	8/6/14	PARTS REVIEW	CW	KM	P.O. NO.:		
4	11/19/14	UPDATES	RB	KM	SCALE:	NONE	
NO.	DATE	REVISION	BY	DR.			
CAD FILE: D29894-05-ACPWR-UW			DATE: 11/19/14				

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AUTOMATION & ELECTRONICS, INC.
 CASPER WYOMING

TITLE:
ARC POLYMER PLANT POWER
REMOTE I/O PANEL

CUSTOMER: FABRICATION TECHNOLOGIES, INC.		REV.:
SHEET 5 OF 13	DRAWING NUMBER: D-29894	4
JOB NO.: 7103-03_08		



SHOP AS-BUILT

3	11/6/14	UPDATES	RB	KM	DESIGNED	DRAFTED
2	10/28/14	UPDATES	RB	KM	SMT	KM
1	8/6/14	PARTS REVIEW	CW	KM	P.O. NO.:	
4	11/19/14	UPDATES	RB	KM	SCALE:	
NO. DATE		REVISION	BY	DR.	SCALE: NONE	
CAD FILE: D29894-06-DI-1			DATE: 11/19/14			

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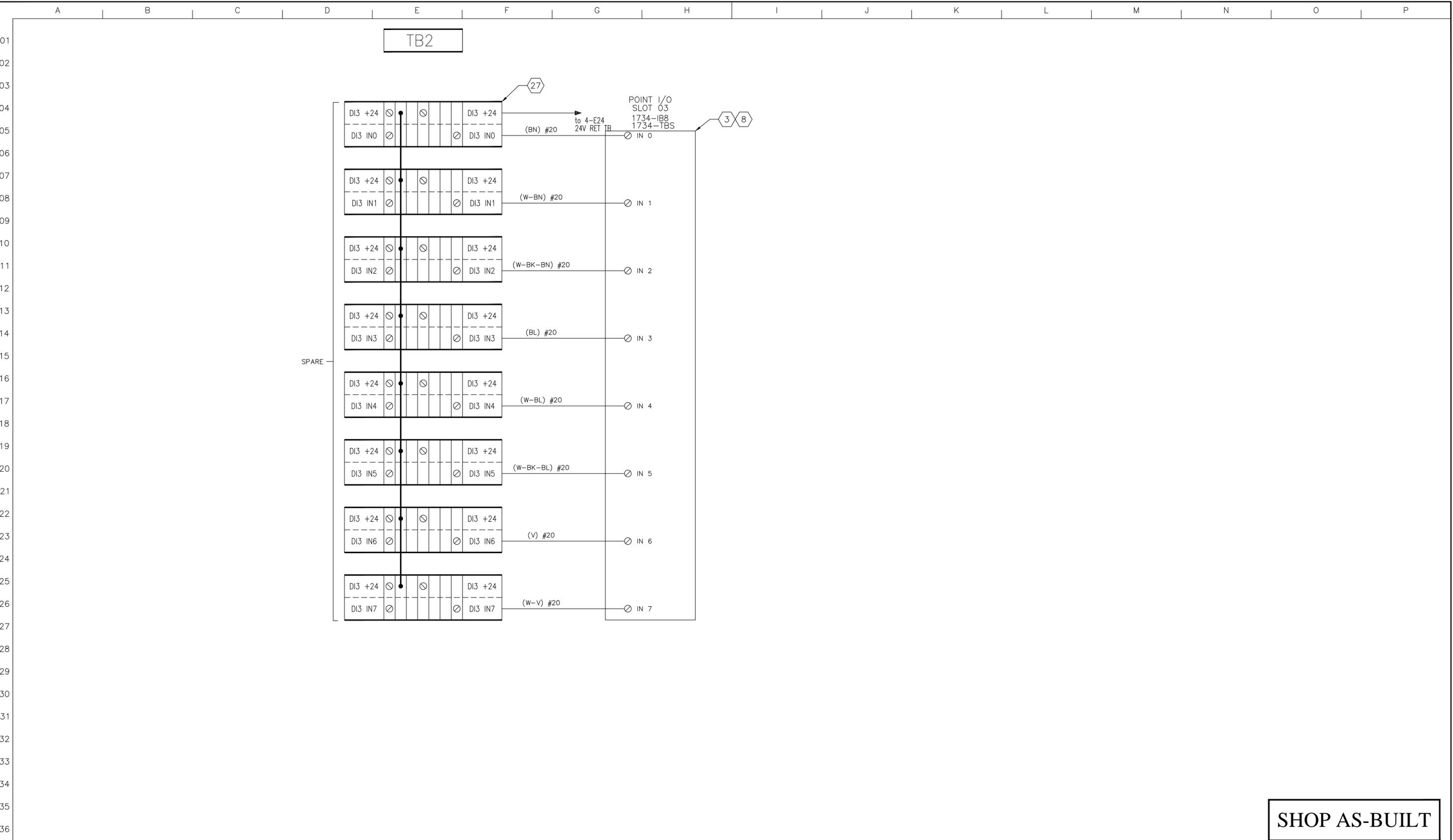
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 EMAIL: sales@autoelect.com



TITLE: **ARC POLYMER PLANT
 DIGITAL INPUTS - 1 OF 2**

REMOTE I/O PANEL

CUSTOMER: FABRICATION TECHNOLOGIES, INC.		
SHEET 6 OF 13	DRAWING NUMBER: D-29894	REV. 4
JOB NO.: 7103-03_08		



SHOP AS-BUILT

3	11/6/14	UPDATES	RB	KM
2	10/28/14	UPDATES	RB	KM
1	8/6/14	PARTS REVIEW	CW	KM
4	11/19/14	UPDATES	RB	KM
NO.	DATE	REVISION	BY	DR.
CAD FILE: D29894-07-DI-2		DATE: 11/19/14		

DESIGNED	DRAFTED
SMT	KM
P.O. NO.:	
SCALE:	
NONE	

IF THIS BAR DOES NOT EQUAL ONE INCH ADJUST SCALES ACCORDINGLY

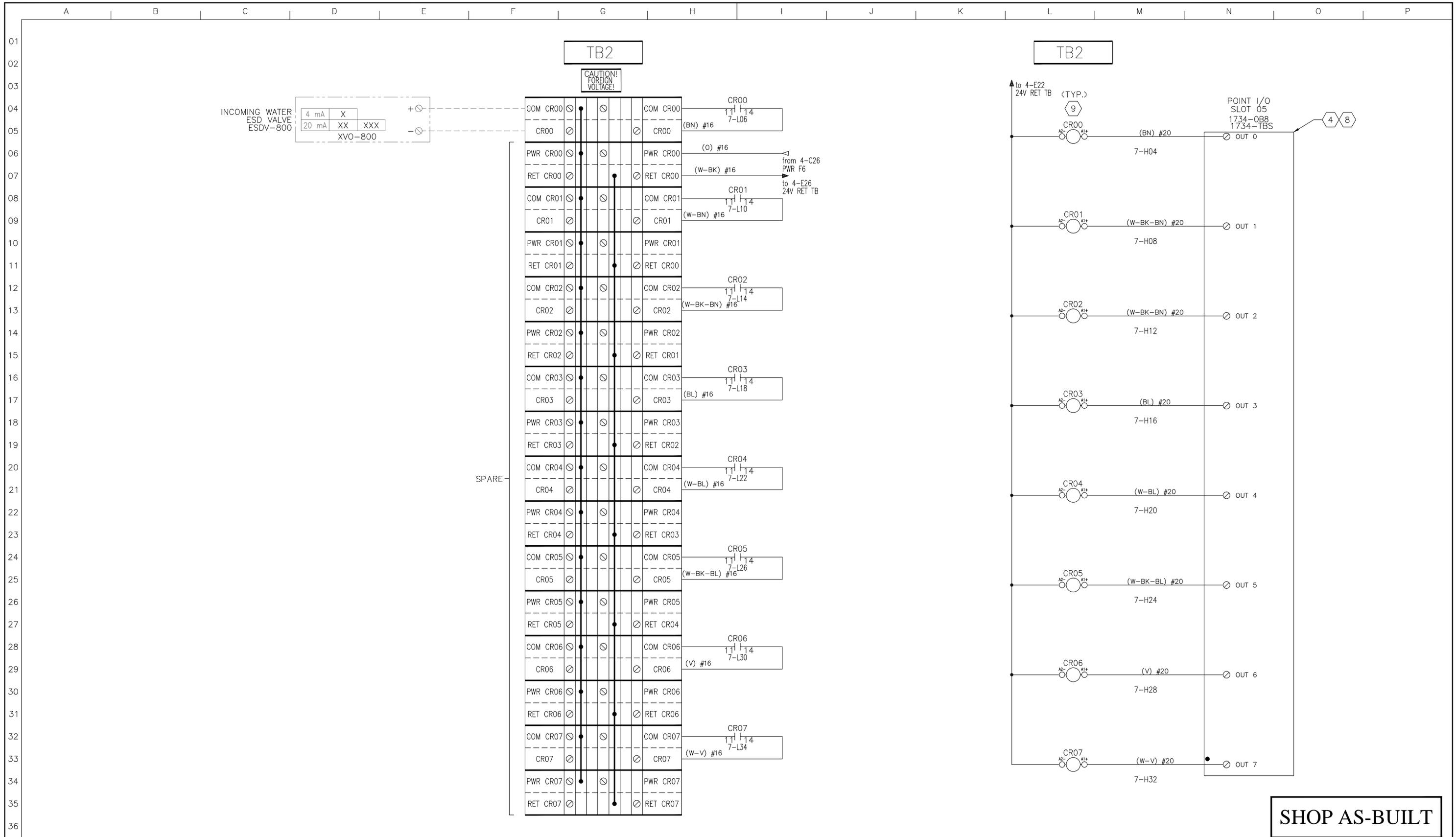
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TITLE: **ARC POLYMER PLANT
 DIGITAL INPUTS - 2 OF 2
 REMOTE I/O PANEL**

CUSTOMER: FABRICATION TECHNOLOGIES, INC.		
SHEET 7 OF 13	DRAWING NUMBER: D-29894	REV. 4
JOB NO.: 7103-03_08		



3	11/6/14	UPDATES	RB	KM	DESIGNED	DRAFTED
2	10/28/14	UPDATES	RB	KM	SMT	KM
1	8/6/14	PARTS REVIEW	CW	KM	P.O. NO.:	
4	11/19/14	UPDATES	RB	KM	SCALE:	
NO.	DATE	REVISION	BY	DR.	NONE	

CAD FILE: D29894-08-CR-D0-1 DATE: 11/19/14

IF THIS BAR DOES NOT EQUAL ONE INCH ADJUST SCALES ACCORDINGLY

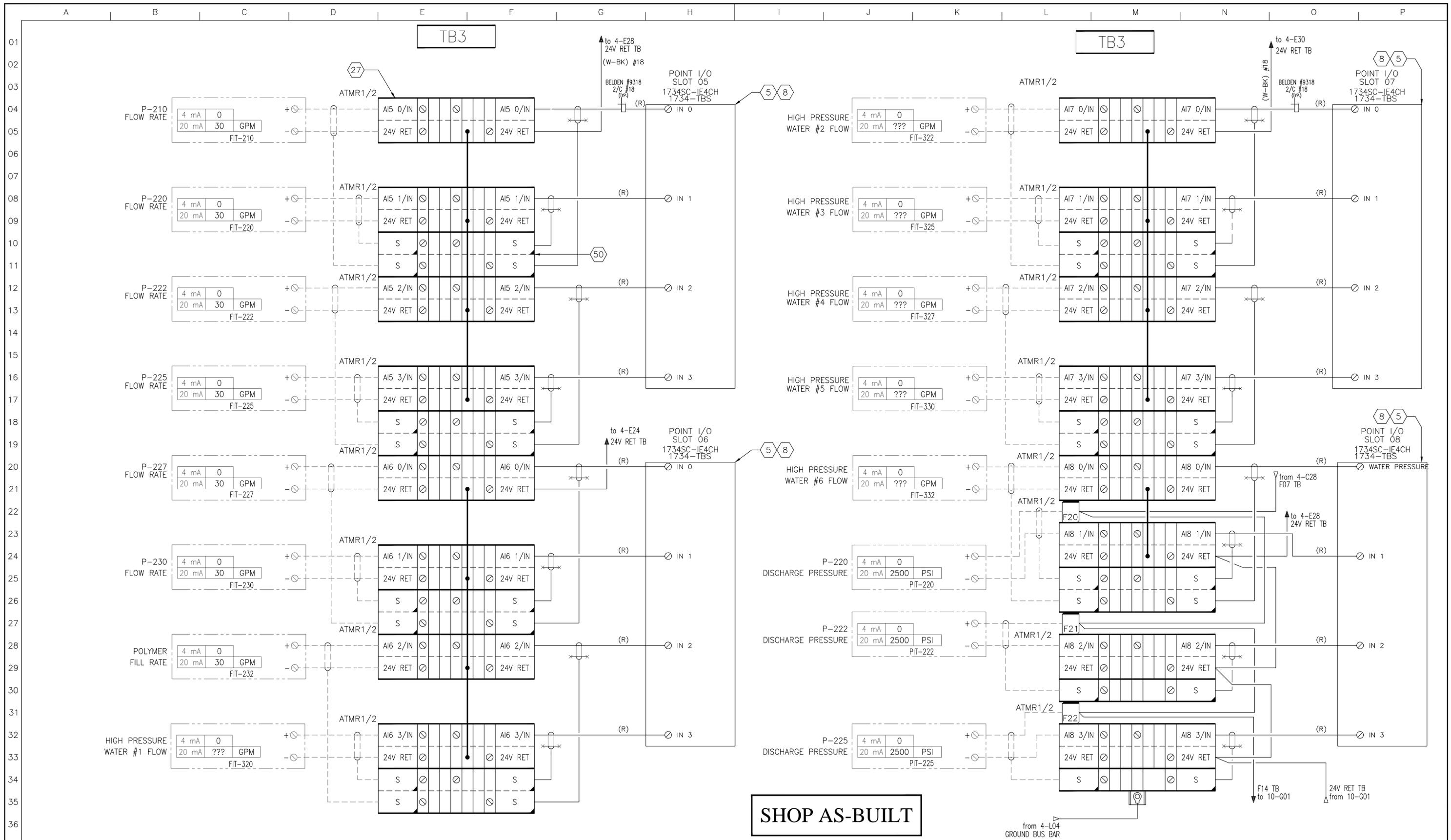
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TITLE: **ARC POLYMER PLANT DIGITAL OUTPUTS REMOTE I/O PANEL**

CUSTOMER: FABRICATION TECHNOLOGIES, INC.		
SHEET 8 OF 13	DRAWING NUMBER: D-29894	REV. 4
JOB NO.: 7103-03_08		



SHOP AS-BUILT

3	11/6/14	UPDATES	RB	KM	DESIGNED	DRAFTED
2	10/28/14	UPDATES	RB	KM	SMT	KM
1	8/6/14	PARTS REVIEW	CW	KM	P.O. NO.:	
4	11/19/14	UPDATES	RB	KM	SCALE:	NONE
NO.	DATE	REVISION	BY	DR.		

CAD FILE: D29894-09-AI-WI DATE: 11/19/14

IF THIS BAR DOES NOT EQUAL ONE INCH ADJUST SCALES ACCORDINGLY

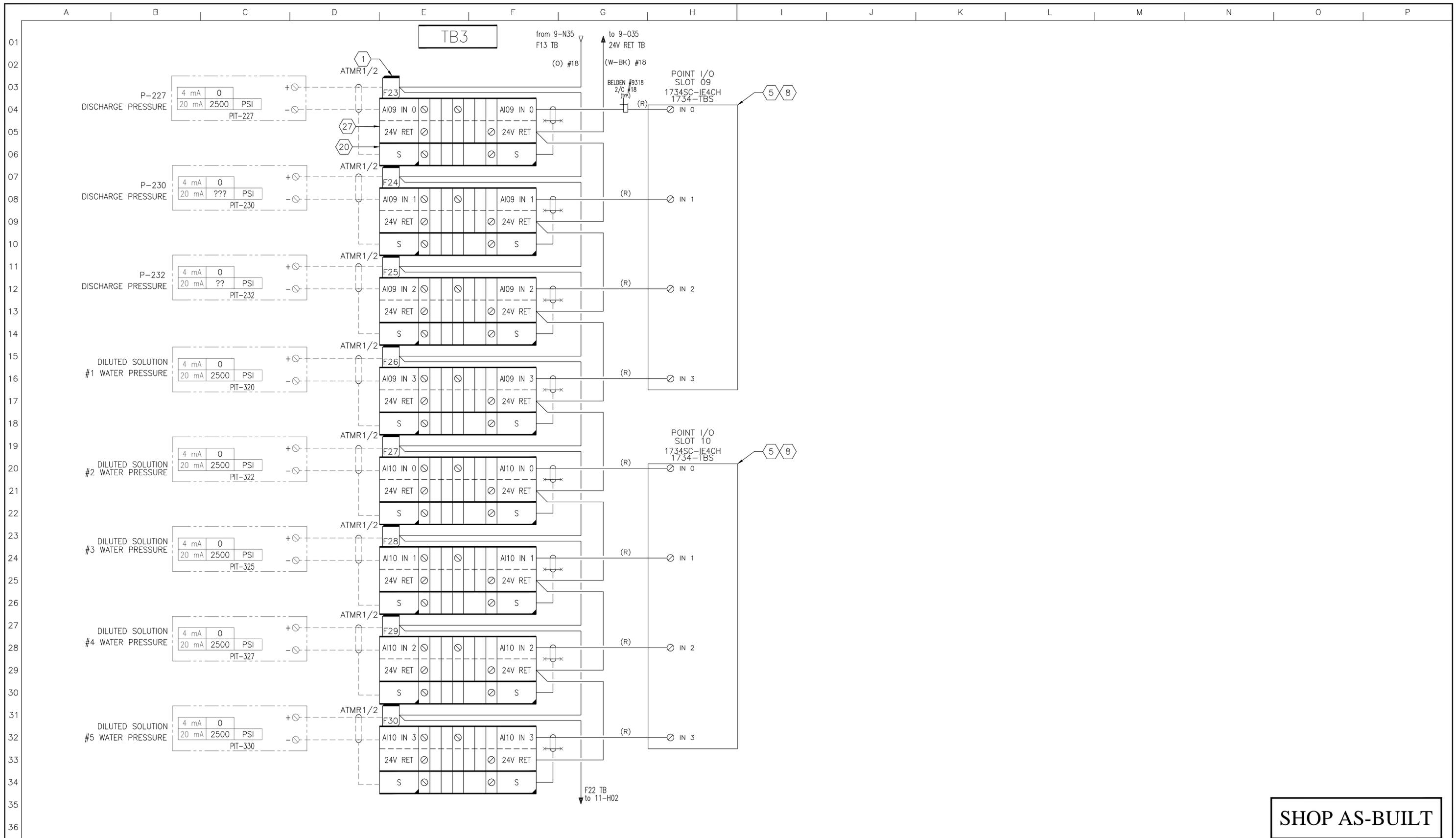
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AUTOMATION & ELECTRONICS, INC.
 CASPER WYOMING

TITLE: **ARC POLYMER PLANT ANALOG INPUTS REMOTE I/O PANEL**

CUSTOMER: FABRICATION TECHNOLOGIES, INC.	
SHEET 9 OF 13	DRAWING NUMBER: D-29894
JOB NO.: 7103-03_08	REV. 4



SHOP AS-BUILT

3	11/6/14	UPDATES	RB	KM	DESIGNED	DRAFTED
2	10/28/14	UPDATES	RB	KM	SMT	KM
1	8/6/14	PARTS REVIEW	CW	KM	P.O. NO.:	
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NO.	DATE	REVISION	BY	DR.		
CAD FILE: D29894-10-AI-WI			DATE: 11/19/14			

IF THIS BAR DOES NOT EQUAL ONE INCH ADJUST SCALES ACCORDINGLY

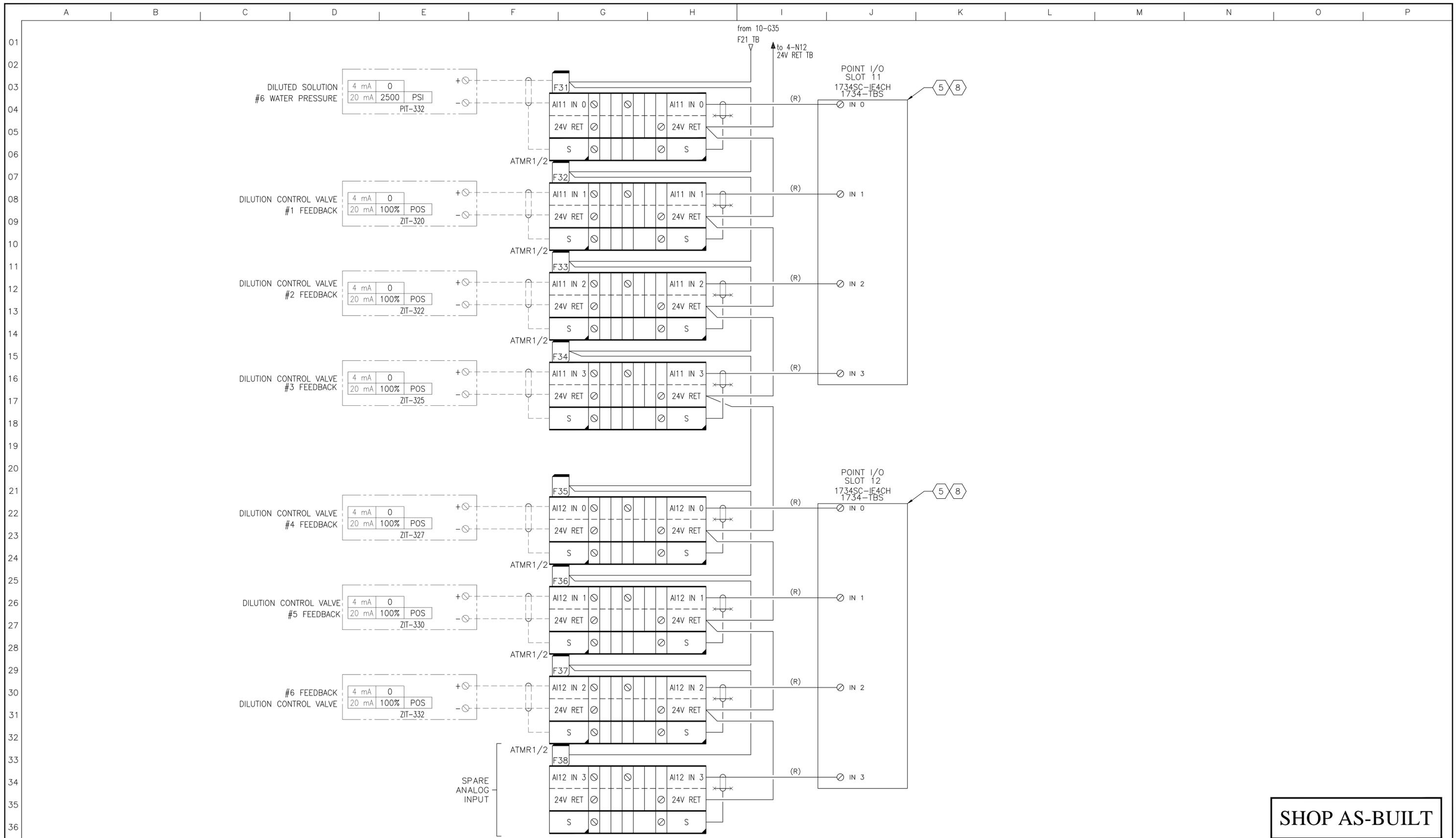
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AUTOMATION & ELECTRONICS, INC.
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TITLE: **ARC POLYMER PLANT ANALOG INPUTS**
REMOTE I/O PANEL

CUSTOMER: FABRICATION TECHNOLOGIES, INC.		
SHEET 10 OF 13	DRAWING NUMBER: D-29894	REV. 4
JOB NO.: 7103-03_08		



SHOP AS-BUILT

3	11/6/14	UPDATES	RB	KM	DESIGNED	DRAFTED
2	10/28/14	UPDATES	RB	KM	SMT	KM
1	8/6/14	PARTS REVIEW	CW	KM	P.O. NO.:	
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NO.	DATE	REVISION	BY	DR.	SCALE: NONE	
CAD FILE: D29894-11-AI-WI			DATE: 11/19/14			

IF THIS BAR DOES NOT EQUAL ONE INCH ADJUST SCALES ACCORDINGLY

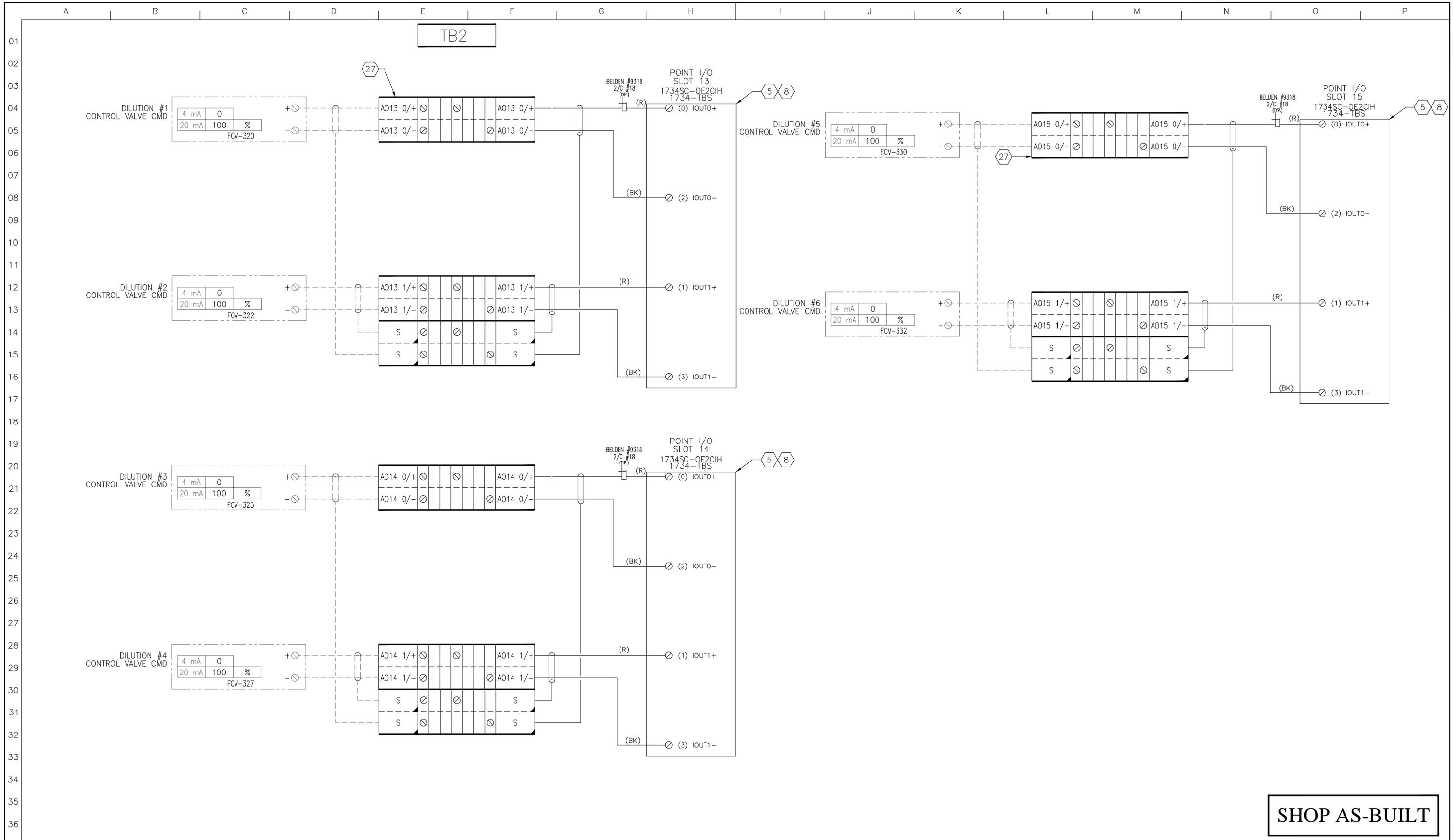
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AUTOMATION & ELECTRONICS, INC.
CASPER WYOMING

TITLE:
**ARC POLYMER PLANT
ANALOG INPUTS
REMOTE I/O PANEL**

CUSTOMER: FABRICATION TECHNOLOGIES, INC.		
SHEET 11 OF 13	DRAWING NUMBER: D-29894	REV. 4
JOB NO.: 7103-03_08		



3	11/6/14	UPDATES	RB	KM	DESIGNED	DRAFTED
2	10/28/14	UPDATES	RB	KM	SMT	KM
1	8/6/14	PARTS REVIEW	CW	KM	P.O. NO.:	
4	11/19/14	UPDATES	RB	KM	SCALE:	
NO.	DATE	REVISION	BY	DR.	SCALE: NONE	

IF THIS BAR DOES NOT EQUAL ONE INCH ADJUST SCALES ACCORDINGLY

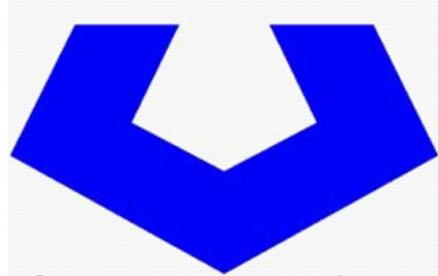
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AUTOMATION & ELECTRONICS, INC.
 CASPER WYOMING

TITLE: **ARC POLYMER PLANT ANALOG OUTPUTS**
REMOTE I/O PANEL

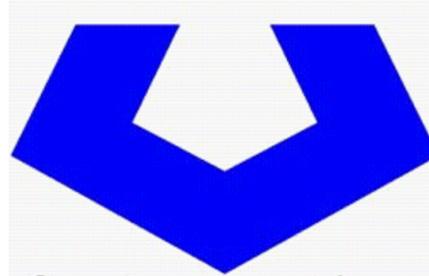
CUSTOMER: FABRICATION TECHNOLOGIES, INC.		
SHEET 12 OF 13	DRAWING NUMBER: D-29894	REV. 4
JOB NO.: 7103-03_08		



**Automation
Electronics**

FUSE	SIZE CLASS	TYPE	PART	RATING
FH0	CLASS CC	SLOW	ATDR4	4A
FH1	CLASS CC	SLOW	ATDR1	1A
FH2	CLASS CC	SLOW	ATDR1	1A
FH3	CLASS CC	SLOW	ATDR1	1A
FH4	CLASS CC	SLOW	ATDR1	1A
FH5	CLASS CC	SLOW	ATDR1	1A
FH6	CLASS CC	SLOW	ATDR1	1A
FH7	CLASS CC	SLOW	ATDR1	1A
FH8	CLASS CC	SLOW	ATDR1	1A
FH9	CLASS CC	SLOW	ATDR1	1A
FH10	CLASS CC	SLOW	ATDR1	1A
FH11	CLASS CC	SLOW	ATDR1	1A
FH12	CLASS CC	SLOW	ATDR1	1A
FH13	CLASS CC	SLOW	ATDR1	1A
FH14	CLASS CC	SLOW	ATDR5	5A
F0	CLASS CC	FAST	ATMR10	10A
F1	CLASS CC	FAST	ATMR3	3A
F2	CLASS CC	FAST	ATMR1	1A
F3	CLASS CC	FAST	ATMR1	1A
F4	CLASS CC	FAST	ATMR1	1A
F5	CLASS CC	FAST	ATMR1	1A
F6	CLASS CC	SLOW	ATDR5	5A
F7	CLASS CC	FAST	ATMR1	1A
F8	CLASS CC	FAST	ATMR1	1A
F9	CLASS CC	FAST	ATMR3	3A
F10	CLASS CC	FAST	ATMR3	3A
F11	CLASS CC	FAST	ATMR1	1A

JOB # 7103-03 / D-29894



**Automation
Electronics**

FUSE	SIZE CLASS	TYPE	PART	RATING
F12	CLASS CC	SLOW	ATDR3	3A
F13	CLASS CC	SLOW	ATDR3	3A
F14	CLASS CC	SLOW	ATDR3	3A
F15	CLASS CC	SLOW	ATDR3	3A
F16	CLASS CC	SLOW	ATDR3	3A
F17	CLASS CC	SLOW	ATDR3	3A
F18	CLASS CC	SLOW	ATDR3	3A
F19	CLASS CC	SLOW	ATDR3	3A
F20	CLASS CC	FAST	ATMR1/2	1/2A
F21	CLASS CC	FAST	ATMR1/2	1/2A
F22	CLASS CC	FAST	ATMR1/2	1/2A
F23	CLASS CC	FAST	ATMR1/2	1/2A
F24	CLASS CC	FAST	ATMR1/2	1/2A
F25	CLASS CC	FAST	ATMR1/2	1/2A
F26	CLASS CC	FAST	ATMR1/2	1/2A
F27	CLASS CC	FAST	ATMR1/2	1/2A
F28	CLASS CC	FAST	ATMR1/2	1/2A
F29	CLASS CC	FAST	ATMR1/2	1/2A
F30	CLASS CC	FAST	ATMR1/2	1/2A
F31	CLASS CC	FAST	ATMR1/2	1/2A
F32	CLASS CC	FAST	ATMR1/2	1/2A
F33	CLASS CC	FAST	ATMR1/2	1/2A
F34	CLASS CC	FAST	ATMR1/2	1/2A
F35	CLASS CC	FAST	ATMR1/2	1/2A
F36	CLASS CC	FAST	ATMR1/2	1/2A
F37	CLASS CC	FAST	ATMR1/2	1/2A
F38	CLASS CC	FAST	ATMR1/2	1/2A

JOB # 7103-03 / D-29894

SHOP AS-BUILT

3	11/6/14	UPDATES	RB	KM	DESIGNED	DRAFTED
2	10/28/14	UPDATES	RB	KM	SMT	KM
1	8/6/14	PARTS REVIEW	CW	KM	P.O. NO.:	
4	11/19/14	UPDATES	RB	KM	SCALE:	
NO. DATE		REVISION		BY DR.		
CAD FILE: D29894-13-FL		DATE: 11/19/14		NONE		

IF THIS BAR DOES NOT EQUAL ONE INCH ADJUST SCALES ACCORDINGLY

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AUTOMATION & ELECTRONICS, INC.
CASPER WYOMING

TITLE:
**ARC POLYMER PLANT
 FUSE LIST**
 REMOTE I/O PANEL

CUSTOMER: FABRICATION TECHNOLOGIES, INC.		
SHEET 13 OF 13	DRAWING NUMBER: D-29894	REV. 4
JOB NO.: 7103-03_08		