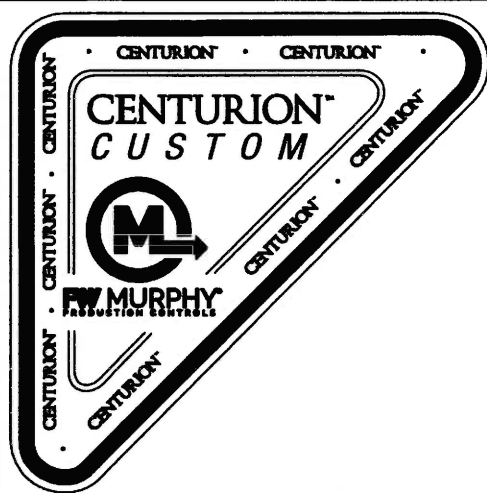




EXTERRAN

EXT-199216

US-123356-01 & 02

US-123356-01-CMP-08-001

*KAEGO ENERGY & TECHNOLOGY CORP.
BELEMA INDUSTRIAL ISLAND DEVELOPMENT*

FW MURPHY [®] PRODUCTION CONTROLS		COVER SHEET		DRAWN BY DLK	CHK'D BY 9-10-10 DLK	APPROVED BY 3/10/10		DATE 10-4-19		SCALE NONE		REV. 1		DESCRIPTION CHANGED UNIT #		DCN No.		DATE		PROJ ENGR	
DWG. NO. 50-30-12132		YOUR NO. A		WUKESHA 12V275GL ARIEL KBZ/4, 3 STAGE		10-4-19		10-4-19		10-4-19		10-4-19		10-4-19		10-4-19		10-4-19		10-4-19	
SHEET COVER		REV. A		EXTERRAN		10-4-19		10-4-19		10-4-19		10-4-19		10-4-19		10-4-19		10-4-19		10-4-19	

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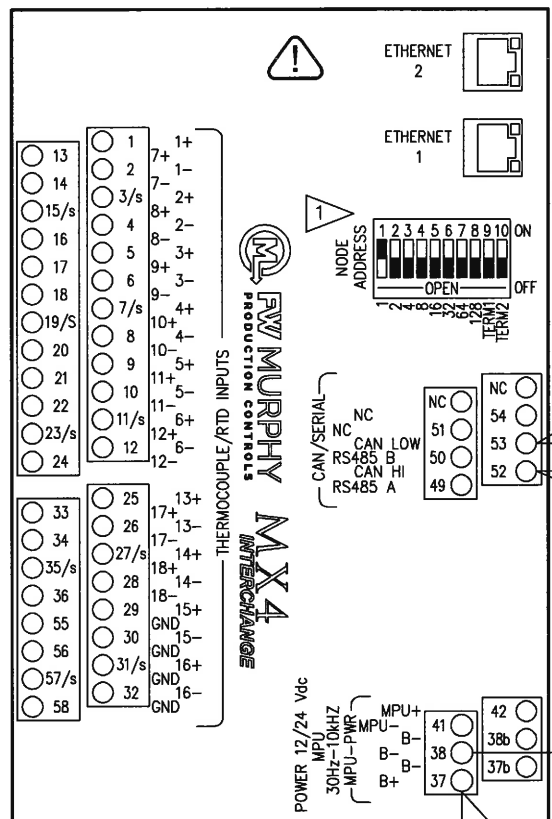
5C

SHEET 8

SHEET 3

SHEET 1
SHEET 1

MX4A

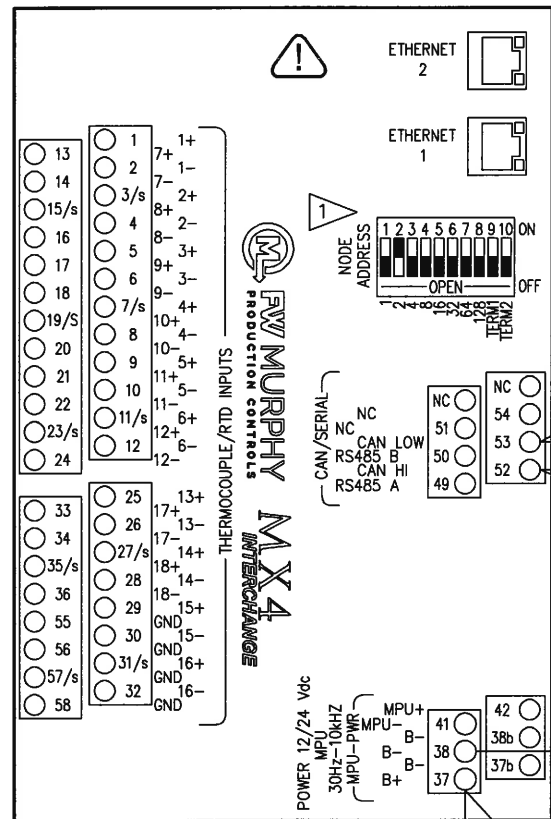


18-R-F12-A/MX4A-37

5D

SHEET 8

MX4B



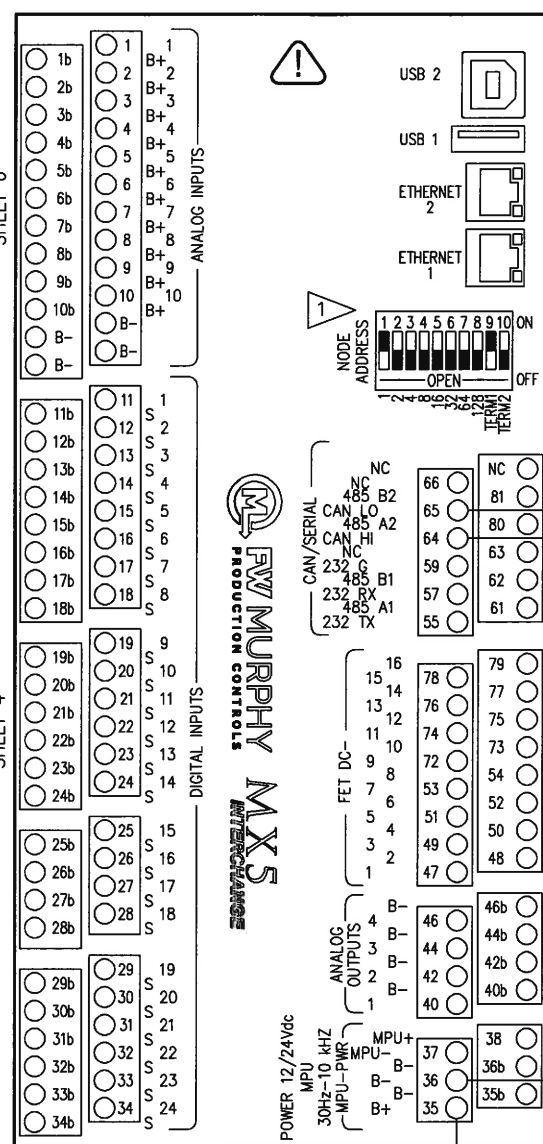
18-R-MX4A-37/MX4B-37

5E

SHEET 6

SHEET 4

MX5



18-R-MX4B-37/MX5-35

5F

SHEET 7

18-GY-DC-/MX5-36



SW1-8=NODE ADDRESS (CAN & RS485)
SW9=CAN EOL TERMINATION
SW10=RS485 EOL TERMINATION

(ON) CLOSE

(OFF) OPEN



WARNING - EXPLOSION HAZARD - DO NOT
DISCONNECT EQUIPMENT UNLESS POWER HAS
BEEN SWITCHED OFF OR THE AREA IS KNOWN
TO BE NON-HAZARDOUS.

AVERTISSEMENT - RISQUE D'EXPLOSION AVANT DE
DECONNECTER L'EQUIPMENT, COUPER LE
COURANT OU S'ASSURER QUE L'EMPLACEMENT.



EXTERRAN

WIRING DIAGRAM

WAUKESHA 12V275GL
ARIEL KBZ/4,
3 STAGE

DRAWN BY DLK

CHK'D BY 3-10-20 DLK

APPROVED BY 3/10/20

DATE 10-4-19

SCALE NONE

REV. 1

DESCRIPTION NO CHANGES TO THIS SHEET

DCN No. 10-18-19

DATE 11-13-19

DH 11-18-19

DH 12-19-19

DH 3-10-20

AS BUILT

NO CHANGES TO THIS SHEET

CHANGED WIRETAG

A

REV. 1

DESCRIPTION NO CHANGES TO THIS SHEET

DCN No. 10-18-19

DATE 11-13-19

DH 11-18-19

DH 12-19-19

DH 3-10-20

AS BUILT

NO CHANGES TO THIS SHEET

CHANGED WIRETAG

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DH 11-18-19

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DH 3-10-20

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DCN No. 10-18-19

DATE 11-13-19

DH 11-18-19

DH 12-19-19

DH 3-10-20

AS BUILT

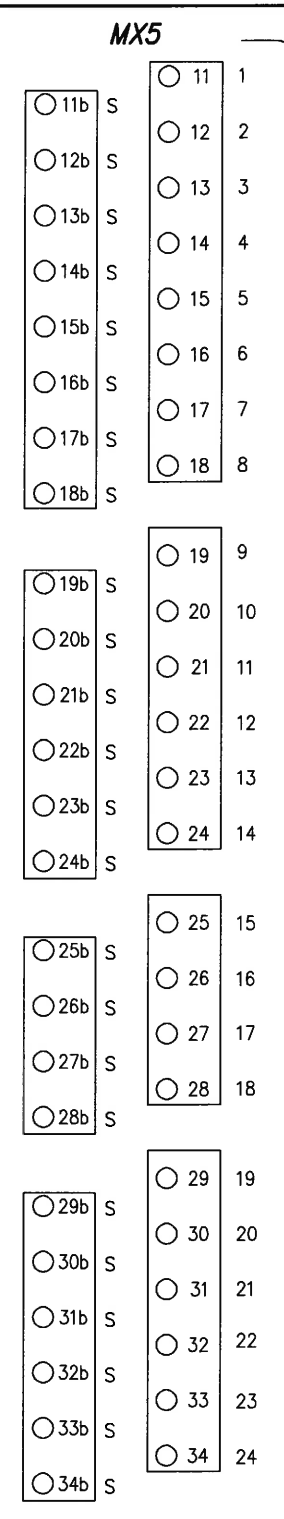
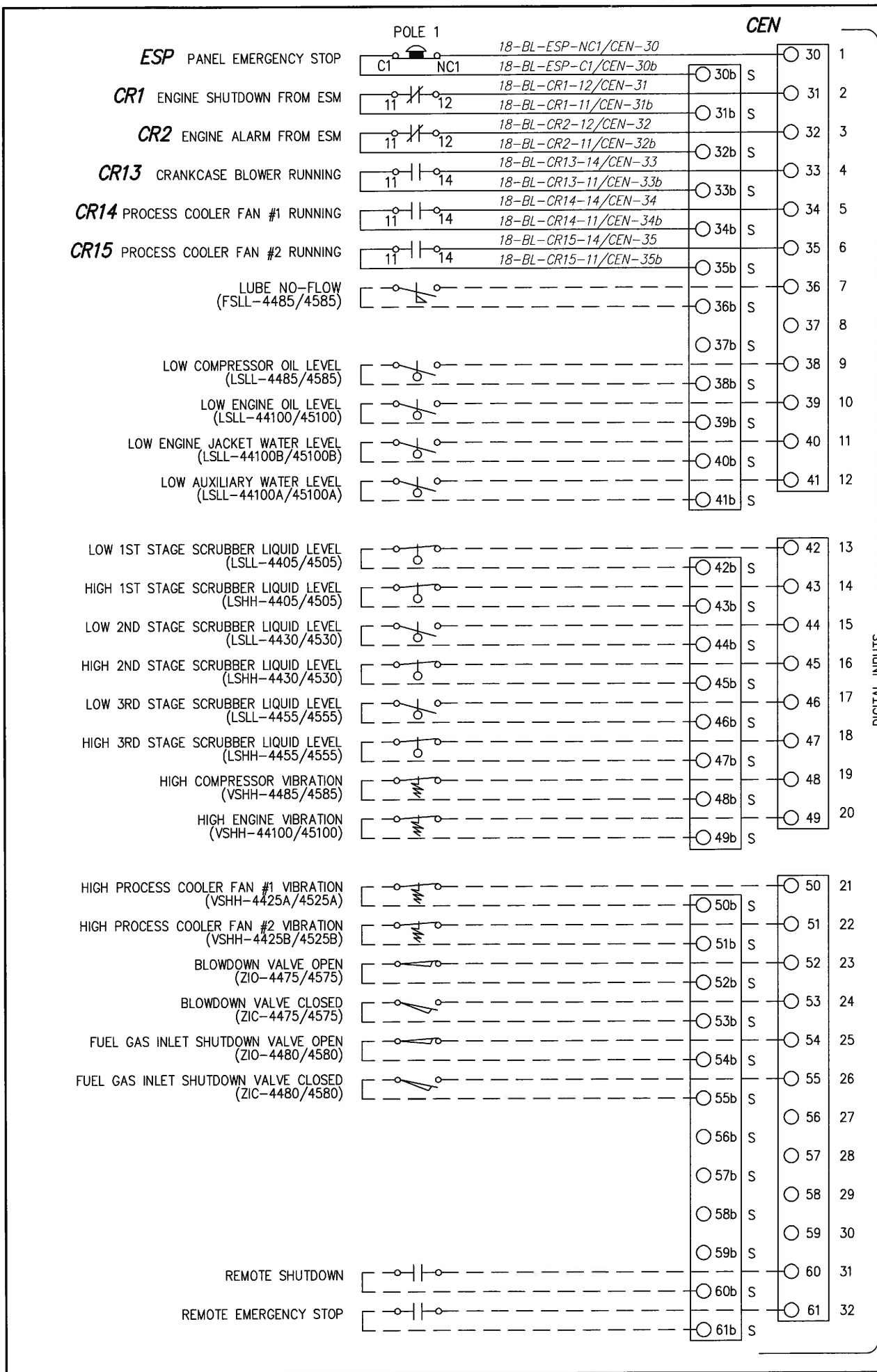
NO CHANGES TO THIS SHEET

CHANGED WIRETAG

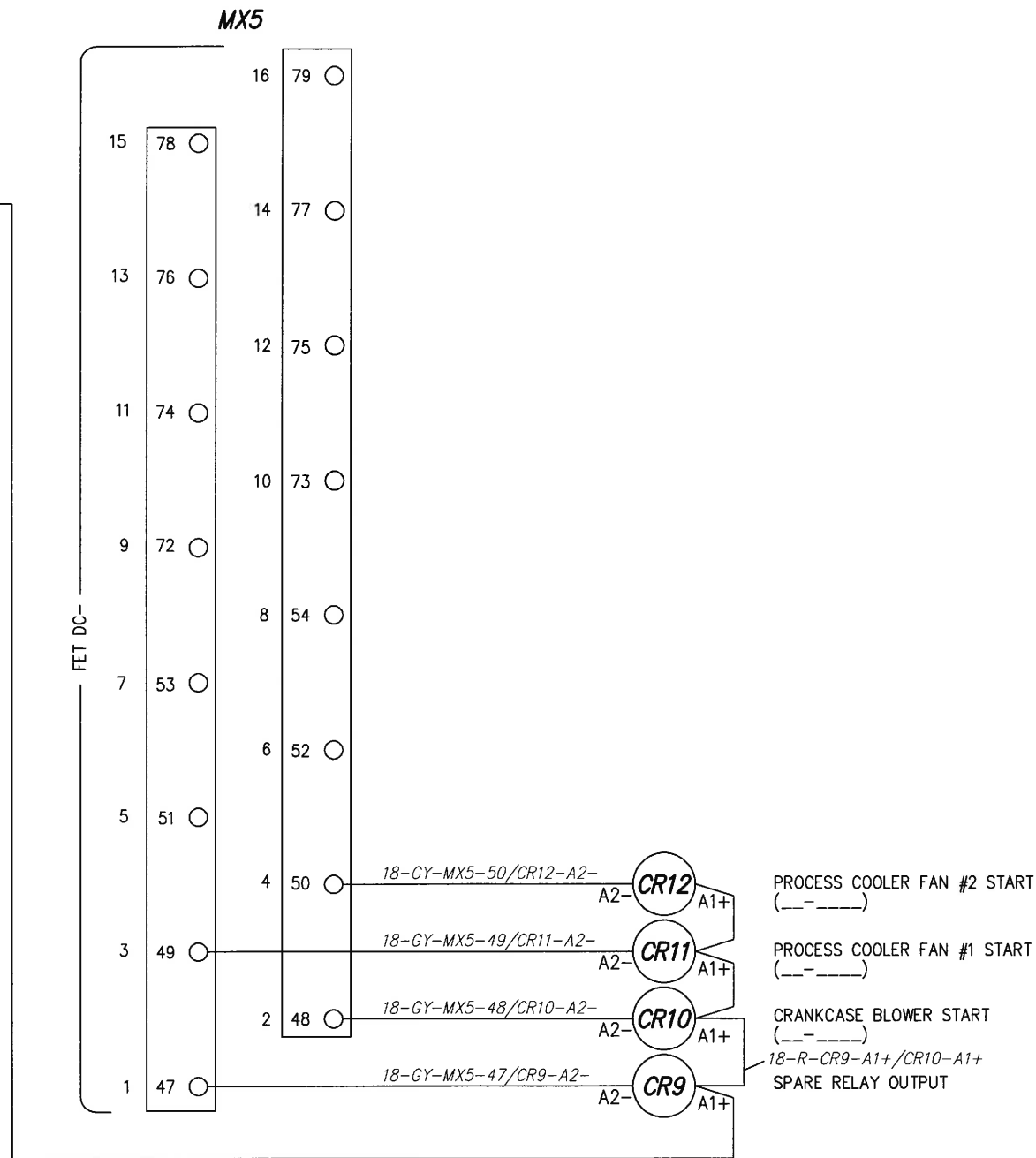
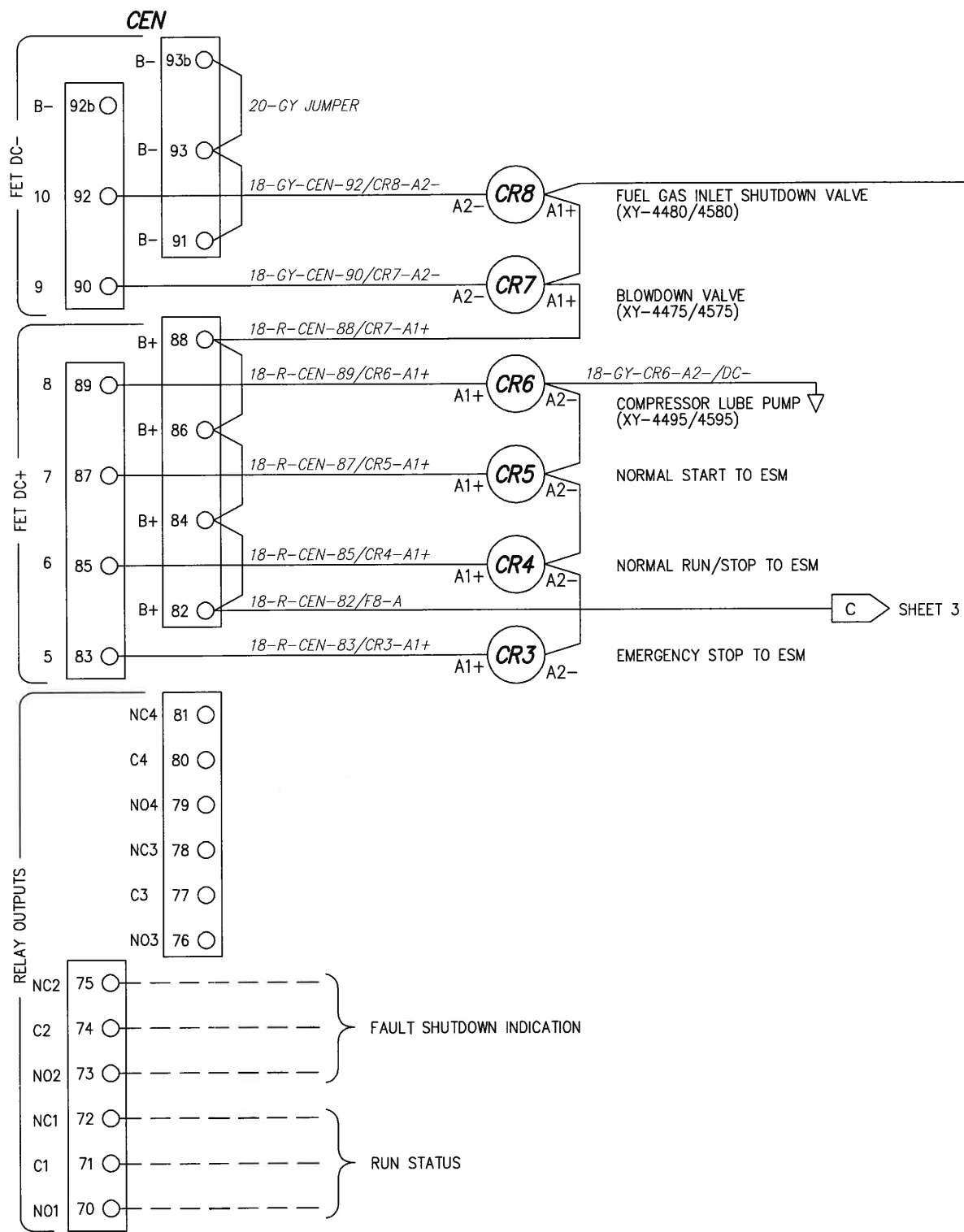
A

REV. 1

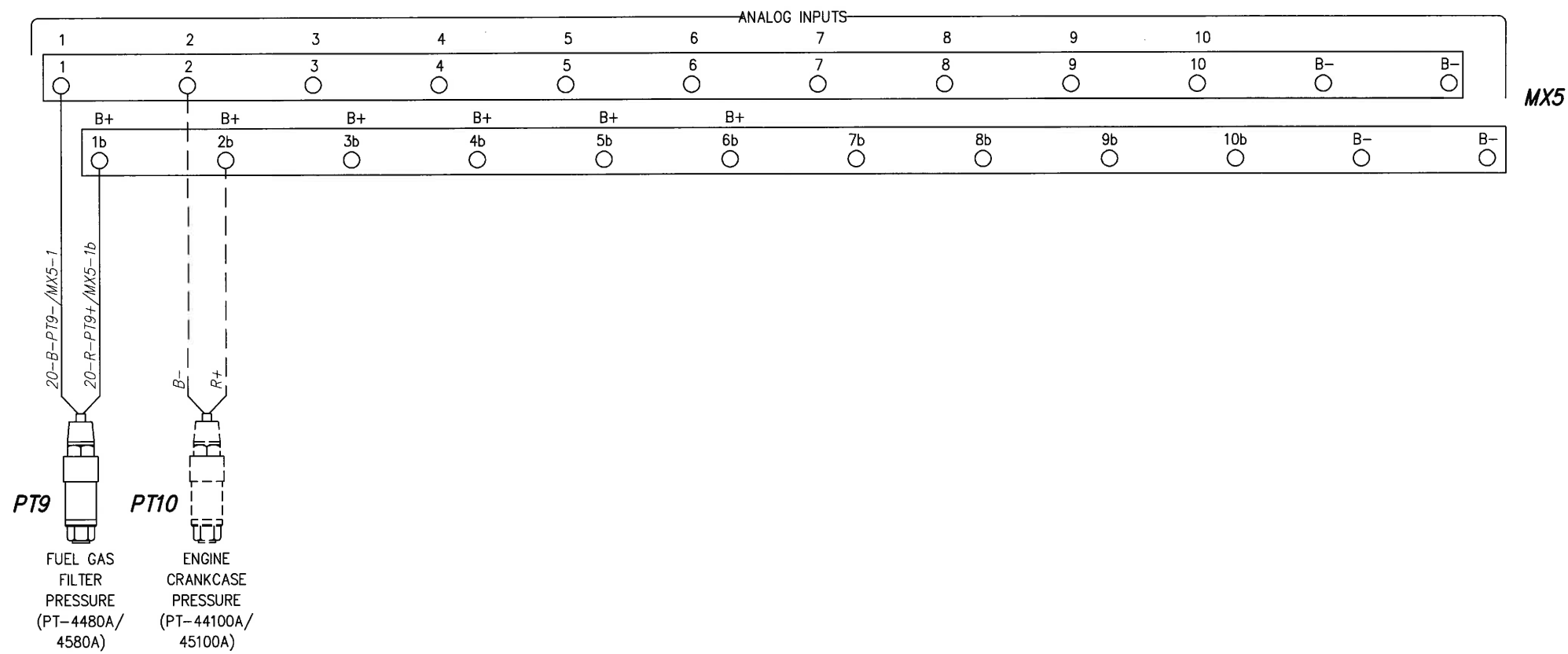
DESCRIPTION NO CHANGES TO THIS SHEET

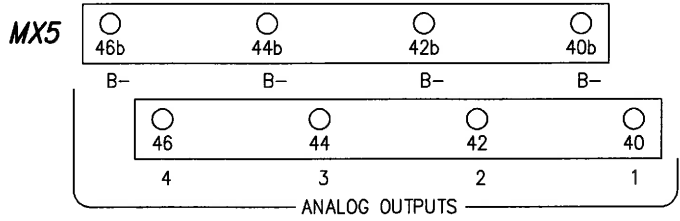
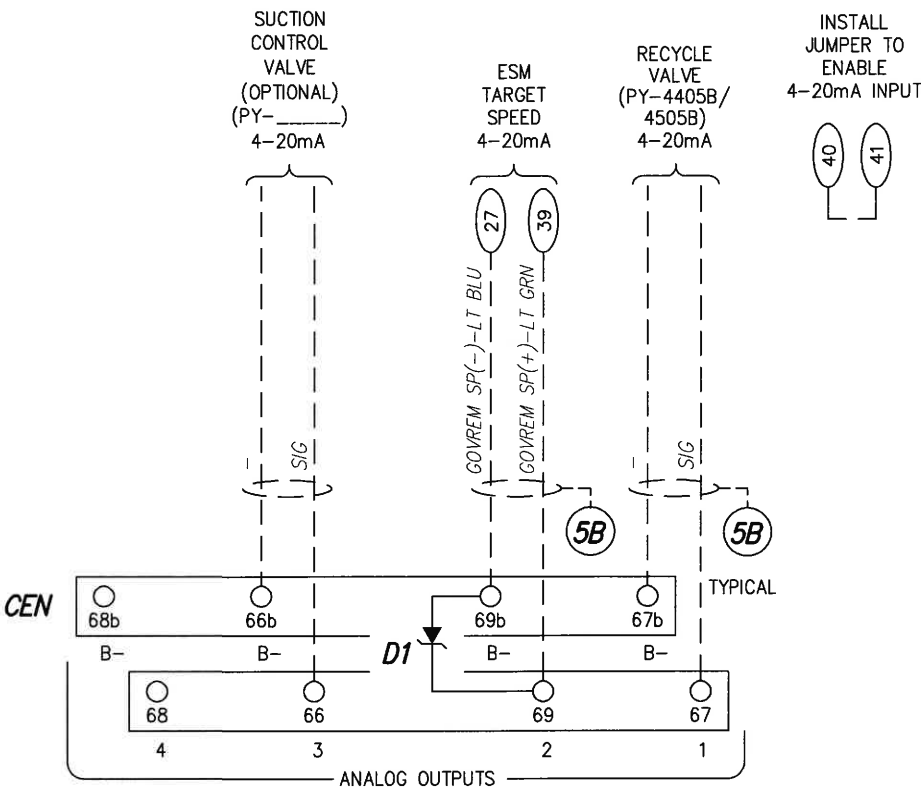


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DRAWN BY DLK	
CHK'D BY 3-10-20 DK	
APP'D BY 3-10-20 DK	
DATE 3-10-20	
SCALE 10-4-19	
REV. NONE	
WIRING DIAGRAM	
WAUKESHA 12V275GL	
ARIEL KBZ/4,	
3 STAGE	
REF. NO.	
YOUR NO.	
REV. A	
50-30-12132	
SHEET 4 OF 9	

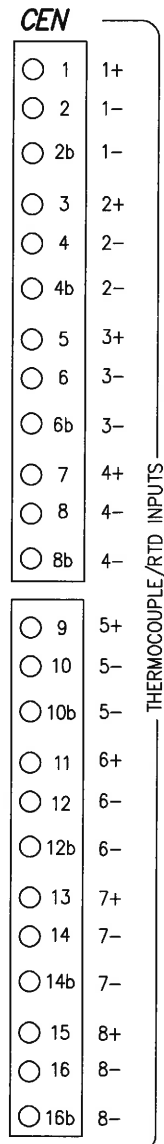
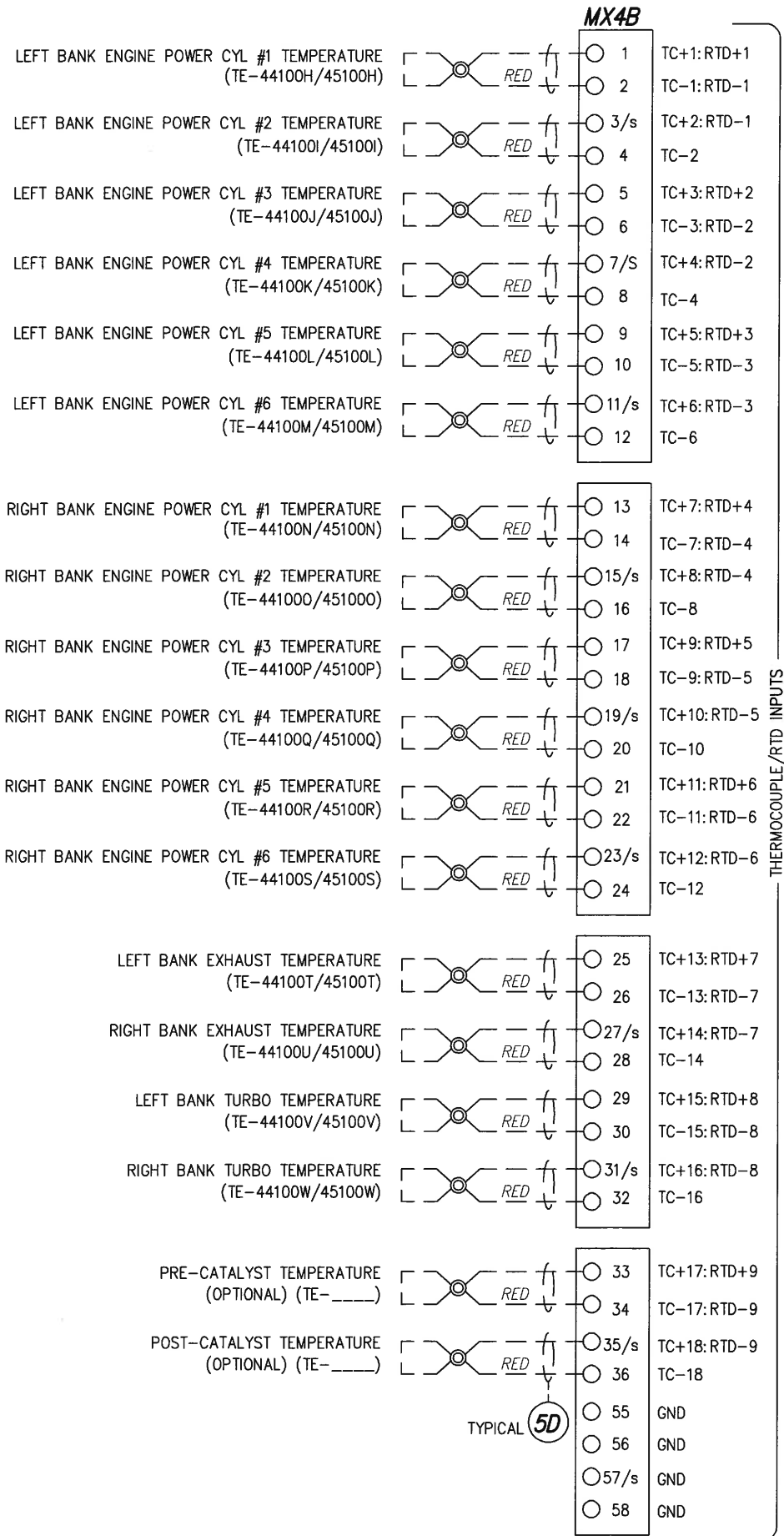
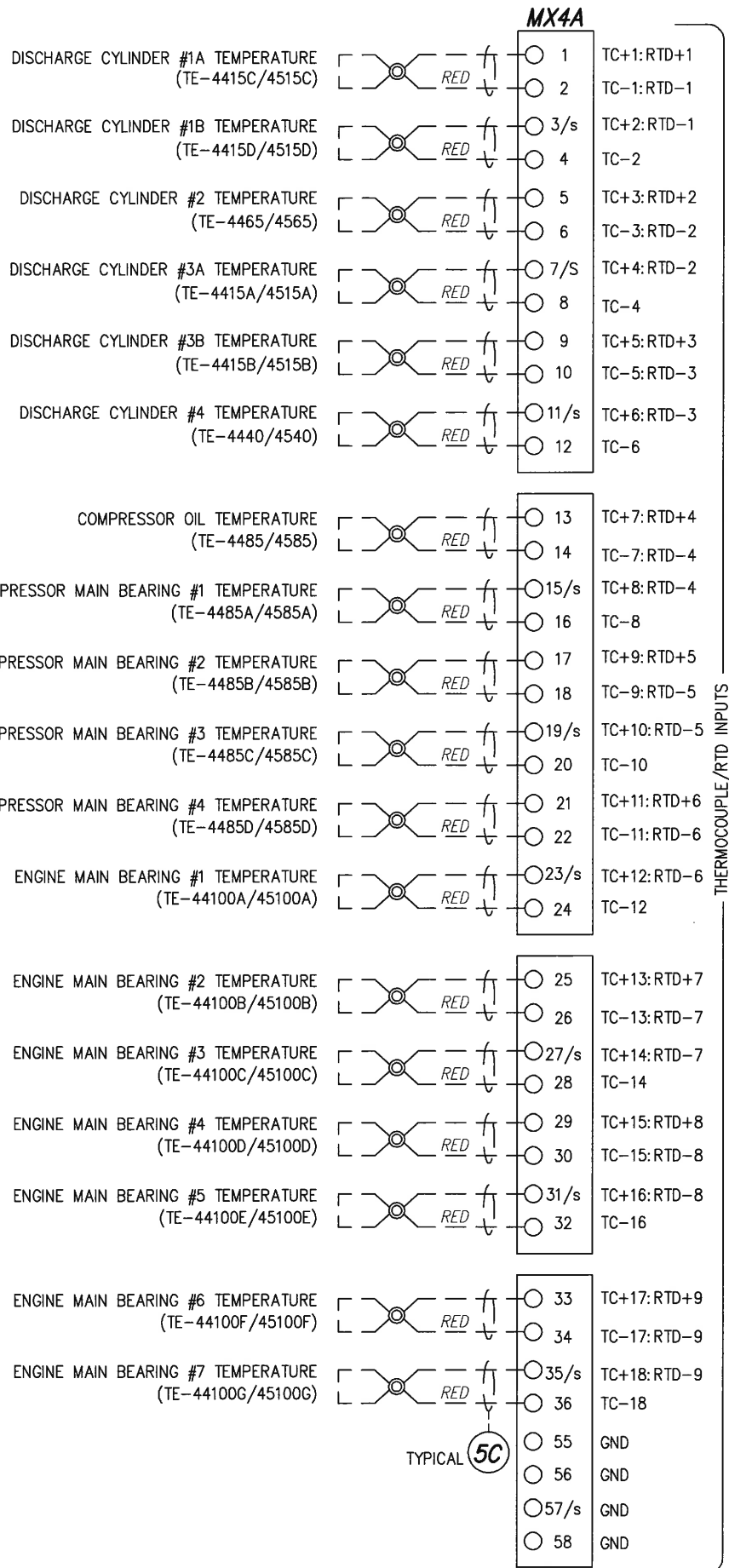


FW MURPHY PRODUCTION CONTROLS		WIRING DIAGRAM WAUKESHA 12V275GL ARIEL KBZ/4, 3 STAGE		YOUR NO. REF NO. REV. A	
SHEET 5 OF 9		DWG. NO. 50-30-12132		DATE 10-4-19	
DRAWN BY DLK CHK'D BY 3-10-20 APP'D BY 3-10-20 DATE 10-4-19		AS BUILT CHANGED WIRETAG CHANGED CR7-8 & CR10 NO CHANGES TO THIS SHEET CHANGED CR7-8 & CR10-12		REV. 1 SCALE NONE DESCRIPTION	
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SHEET	7 OF 9	 FW MURPHY® PRODUCTION CONTROLS	FOR	 EXTERRAN	DWG. NO.	50-30-12132	REV.	A	YOUR NO.		REF NO.		WIRING DIAGRAM		DRAWN BY	CHK'D BY		APPRO'D BY		DATE		SCALE		NONE		REV.		DESCRIPTION		DCN No.		DATE		PROJ ENGR																	
					12V275GL		ARIEL KBZ/4,		3 STAGE		DLK		3-12-20		DK		A		AS BUILT		3-10-20		DH		4		NO CHANGES TO THIS SHEET		12-19-19		DH		3		NO CHANGES TO THIS SHEET		11-18-19		DH		2		CHANGED A03 ON CEN		11-13-19		DH		1		CHANGED CUST. TAG
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INSTALLATION NOTE:

ONLY TWISTED SHIELDED, EXTENSION GRADE THERMOCOUPLE WIRE SHOULD BE USED. THE SHIELD GROUND (DRAIN WIRE) SHOULD BE GROUNDED AT THE T/C SHIELD GROUND. NO DISSIMILAR METALS SHOULD BE USED TO MAKE SPLICES IN THIS WIRE. FOR TYPE J AND K THERMOCOUPLES (-) IS COLOR CODED RED. TYPE J (+) IS WHITE, AND TYPE K (+) IS YELLOW. FOR OTHER TYPES, CONSULT A REFERENCE BOOK. THERMOCOUPLE WIRE SHALL BE RUN IN A SEPARATE CONDUIT FROM ANY POWER WIRES.

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DATE	PROJ ENGR
3-10-20	DH
12-19-19	DH
11-18-19	DH
11-13-19	DH
10-18-19	DH
DATE	DCN No.
DESCRIPTION	REV.
AS BUILT	1
NO CHANGES TO THIS SHEET	2
NO CHANGES TO THIS SHEET	3
CHANGED TC17-18 ON MX4B	4
CHANGED CUST. TAGS	5
SCALE	NONE
10-4-19	
WIRING DIAGRAM	
WAUKESHA 12V275GL	
ARIEL KBZ/4,	
3 STAGE	
REF NO.	
YOUR NO.	
REV.	A
DWG. NO.	50-30-12132
SHEET	8 OF 9

PANEL LEGEND

ITEM	PART NO.	QTY	MANUFACTURER	MFR. PART NO.	DESCRIPTION
1	50236874	1	FW MURPHY		ENC-A-48X36X14-SDN4LL-EG, NO GLASS
2	50226875	1	FW MURPHY		STD-P-22X36-FRNT-EG, BLANK
	50226741	2	FW MURPHY		STD-P-22X2X14-LEG-EG, BLANK
3					NOT USED
4	00008676	AR	BELDEN	3105A	22 AWG CABLE
5A-B	50226699	2	FW MURPHY		C5 GROUND BUS BAR
5C-D	50226720	2	FW MURPHY		MX4-R2 GROUND BUS BAR
5E-F	50226721	2	FW MURPHY		MX5-R2 GROUND BUS BAR
5A-F	00033165	8	PHOENIX	3040889	SUPPORT BRACKET
	00033166	6	3M	SJ-5306CL	BUMPON, CLEAR
6	00030905	1	PHOENIX	5543643	RJ11 CONNECTION CONVERTER
CEN	50703851	1	FW MURPHY	C5-1	CENTURION CONTROLLER
	503412132	1	FW MURPHY		CUSTOM PROGRAM
HMI1	50704938	1	FW MURPHY	MV-7T	CENTURION MVIEW 7" TOUCH DISPLAY
	503412132	1	FW MURPHY		CUSTOM PROGRAM
	00032904	1	ATP	AF2GSDI-OEM-ND	2 GB SECURE DIGITAL (SD) CARD FOR MVIEW TOUCH
HMI2					DISPLAY (CUSTOMER SUPPLIED & INSTALLED)
MX4A-B	50703852	2	FW MURPHY	MX4-R2	EXPANSION MODULE
MX5	50703853	1	FW MURPHY	MX5-R2	EXPANSION MODULE
CA1	00030585	1	IO INTERCONN	GLF-466-076-511-D	RJ12 CABLE, 7 FT.
	00008705	51	PHOENIX	3004362	TERMINAL BLOCK
TB1-4	00005585	6	PHOENIX	3003020	END COVER
	00007689	AR	PHOENIX	0800886	END STOP
PSU1-2	00032591	2	PHOENIX	2866776	PWR SUPPLY, QUINT-PS-100-240AC/24VDC/20A
F1-5	00009255	5	PHOENIX	3048386	FUSE HOLDER (10.3-HESI)
F1-4	00004019	5	GOULD	KTKR-5	5 AMP FUSE (CLASS CC) (1 SPARE)
F5	00006149	2	GOULD	KTKR-20	20 AMP FUSE (CLASS CC) (1 SPARE)
F6-12	00007690	7	PHOENIX	3005507	FUSE HOLDER
F6-10	00007677	6	GOULD	GAB-3	3 AMP FUSE (1 SPARE)
F11-12	00009193	3	GOULD	GAB-6	6 AMP FUSE (1 SPARE)
CR1-12	00009390	12	PHOENIX	2909524	RELAY, 6 AMP, 24 VDC
CR13-15	00030540	3	PHOENIX	2909526	RELAY, 6 AMP, 230 VAC
ESP	00006829	1	SQUARE D	9001-SKR9R	EMERGENCY STOP PUSHBUTTON
	00003914	2	SQUARE D	9001-KA53	CONTACT BLOCK, N.C.
SW1-3	00005983	3	C3CONTROLS	HSS02	2 POSITION SELECTOR SWITCH
	00006851	5	C3CONTROLS	CBFSR	1 N.C./1 N.O. CONTACT BLOCK
	00005985	3	C3CONTROLS	SHWE	OPERATING HANDLE
	00005992	3	C3CONTROLS	TTW	LOCKING RING
D1	00033011	1	ANY	1N4735A	ZENER DIODE, 6.2V, 1W
R1-2	36110121	2	ANY		RESISTOR, 120 OHM, 1/4W, 5%
L1	00034387	1	BANNER	HLS27DW235C	LED PANEL LIGHT
PD1-7	55000277	7	FW MURPHY	PM6203-1/4-316SS	PULSATION SNUBBER
PT1	05707735	1	FW MURPHY	PXT-K-100	1ST STAGE SUCTION PRESSURE-SAFETY TRANSMITTER
PT2	05707735	1	FW MURPHY	PXT-K-100	1ST STAGE SUCTION PRESSURE-CONTROL TRANSMITTER
PT3	05707738	1	FW MURPHY	PXT-K-400	1ST STAGE DISCHARGE PRESSURE TRANSMITTER
PT4	05707738	1	FW MURPHY	PXT-K-400	2ND STAGE SUCTION PRESSURE TRANSMITTER
PT5	05707740	1	FW MURPHY	PXT-K-1000	2ND STAGE DISCHARGE PRESSURE TRANSMITTER
PT6	05707740	1	FW MURPHY	PXT-K-1000	3RD STAGE SUCTION PRESSURE TRANSMITTER
PT7	05707741	1	FW MURPHY	PXT-K-2000	3RD STAGE DISCHARGE PRESSURE TRANSMITTER
PT8	05707736	1	FW MURPHY	PXT-K-200	COMPRESSOR OIL PRESSURE TRANSMITTER
PT9	05707736	1	FW MURPHY	PXT-K-200	FUEL GAS FILTER PRESSURE TRANSMITTER
PT10	05707730	1	FW MURPHY	PXT-K-30V30WC	ENGINE CRANKCASE PRESSURE TRANSMITTER

NOTES:

1. FACTORY WIRING: _____
CUSTOMER WIRING: _____
END USER WIRING: _____
PNEUMATIC 1/4" TUBING: _____
PNEUMATIC 3/8" TUBING: _____

2. 1/4 TUBING: 4400 PSI & BELOW USE .035 WELDED 316 STAINLESS STEEL
BETWEEN 4400 & 10,300 PSI USE .065 SEAMLESS 316 STAINLESS STEEL
3/8 TUBING: 2800 PSI & BELOW USE .035 WELDED 316 STAINLESS STEEL
BETWEEN 2800 & 6600 PSI USE .065 SEAMLESS 316 STAINLESS STEEL
FITTINGS: STAINLESS STEEL

3. ROUTE SENSOR LEADS SEPARATE FROM ALL OTHER WIRING

4. "18-BL-CEN-63/DC-" REPRESENTS "AWG-WIRE COLOR-WIRE TAG".
WHEN JUMPER BARS ARE NOT UTILIZED, JUMPER WIRES SHOULD BE
UNLABELED USING WIRES OF EQUAL AWG & COLOR AS SOURCE.

5. **CAUTION:** DISCONNECT ALL SENSOR LEADS BEFORE WELDING.

6. THIS PANEL IS DESIGNED FOR USE IN CLASS I, DIV 2, GRP. B, C, & D
& CLASS I, ZONE 2, GRP. IIA, IIB, & IIC HAZARDOUS LOCATIONS.

7. GROUND SYMBOLS WILL BE SHOWN PER THE FOLLOWING:
EARTH/NON-INCENDIVE CHASSIS/NON-INCENDIVE DC COM/CLOSE LOOP

EPG

EARTH PROTECTIVE GROUND

IEG

INSTRUMENT ELECTRONIC GROUND

8.

#

 TERMINALS IN FACTORY BUILT PANEL

9.

#

 ITEMS ON PANEL LEGEND

10. GROUNDS MARKED SHALL BE WIRED DIRECTLY TO A GROUND STUD PLACED CLOSE TO THE DEVICE.

11.

#

 TERMINALS IN WAUKESHA PANEL.
CUSTOMER TO VERIFY WAUKESHA TERMINAL NUMBERS.

PT1

PD1

1ST STAGE SUCTION PRESSURE-SAFETY (PT-4405A/4505A)

PT2

PD2

1ST STAGE SUCTION PRESSURE-CONTROL (PT-4405B/4505B)

PT3

PD3

1ST STAGE DISCHARGE PRESSURE (PT-4420/4520)

PT4

PD4

2ND STAGE SUCTION PRESSURE (PT-4430A/4530A)

PT5

PD5

2ND STAGE DISCHARGE PRESSURE (PT-4445/4545)

PT6

PD6

3RD STAGE SUCTION PRESSURE (PT-4455A/4555A)

PT7

PD7

3RD STAGE DISCHARGE PRESSURE (PT-4470/4570)

PT8

COMPRESSOR OIL PRESSURE (PT-4485/4585)

PT9

FUEL GAS FILTER PRESSURE (PT-4480A/4580A)

PT10

ENGINE CRANKCASE PRESSURE (PT-44100A/45100A)
4-20mA LOOP POWERED

SHIP R2 LOOSE, INSTALL AT END OF NETWORK LINE IF REQUIRED.

CUSTOMER SUPPLIED & INSTALLED

FW MURPHY[®]

PRODUCTION CONTROLS

WAUKESHA 12V275GL

ARIEL KBZ/4,

3 STAGE

FOR

EXTERRAN.

DWG. NO.

50-30-12132

REV.

A

DRAWN BY

DLK

CHK'D BY

3-10-20 Dk

APPROVED BY

3/10/20

DATE

10-4-19

SCALE

NONE

REV.

WIRING DIAGRAM

REF. NO.

YOUR NO.

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3-10-20

12-19-19

11-18-19

11-13-19

10-18-19

DATE

PROJ ENR

AS BUILT

CHANGED PANEL LEGEND

CHANGED CUST. TAGS

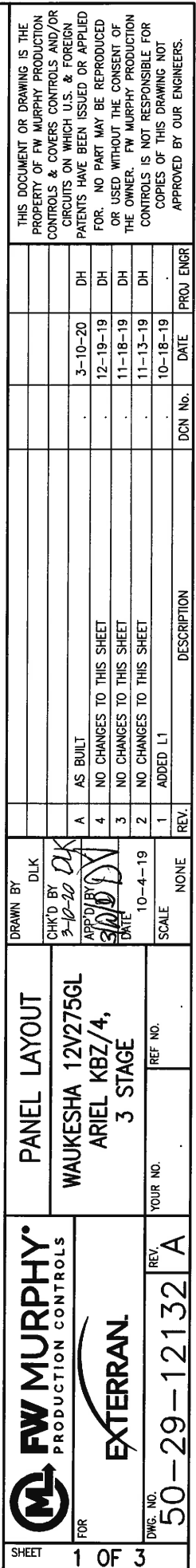
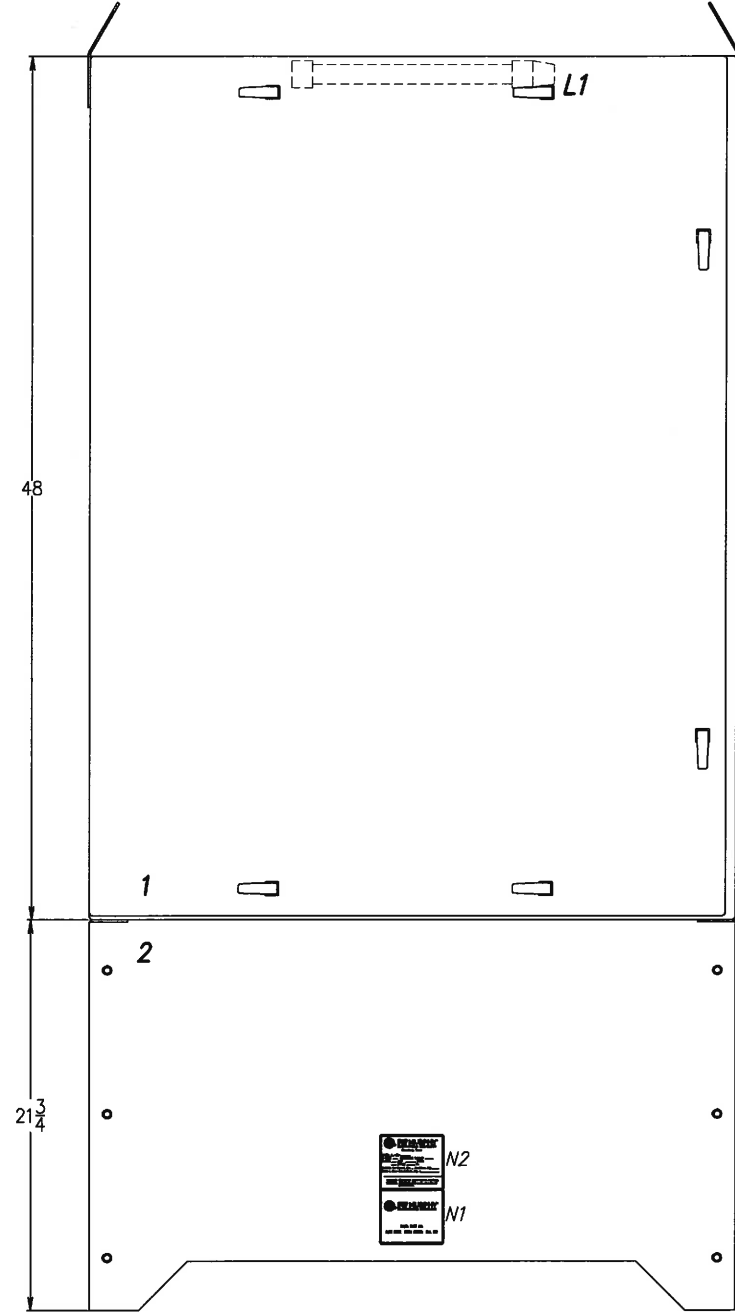
CHANGED PT1-6 & ADDED PT7-10

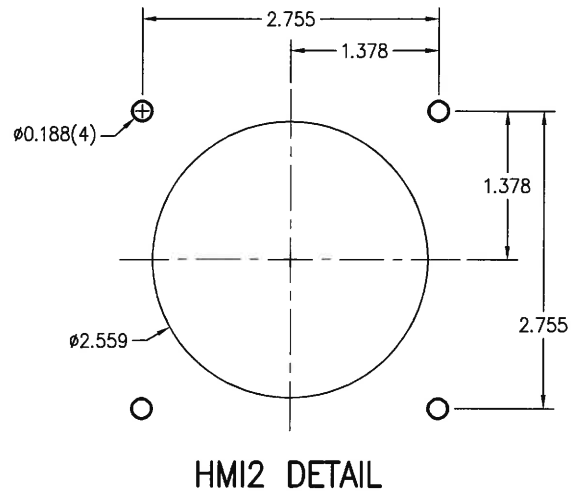
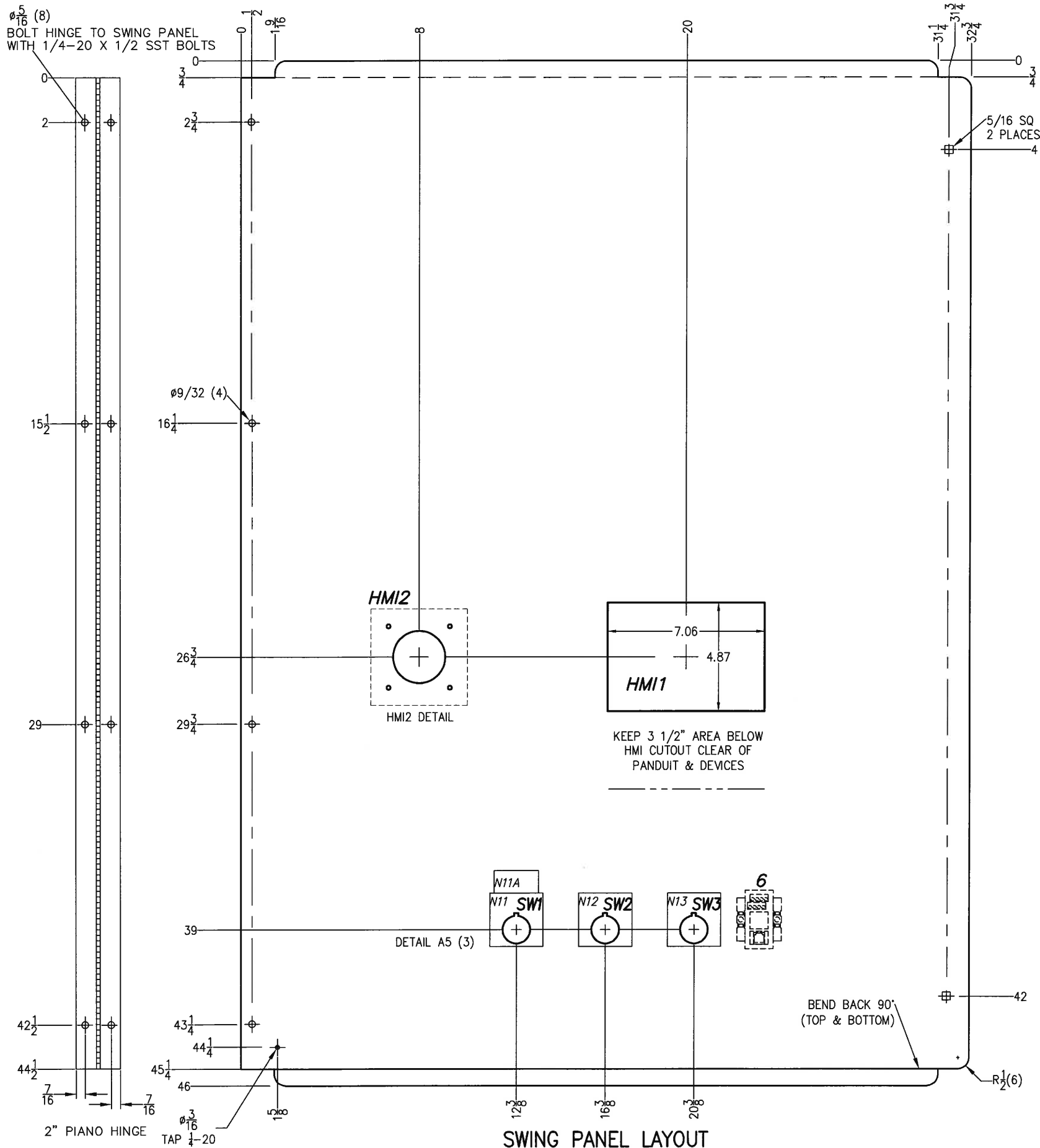
ADDED L1, F9, PT6, & SW2

DESCRIPTION

DON No.

AR = AS REQUIRED





FW MURPHY PRODUCTION CONTROLS EXTERRAN		PANEL LAYOUT WAUKESHA 12V275GL ARIEL KBZ/4, 3 STAGE		DRAWN BY DLK CHK'D BY 3-10-20 DLK APP'D BY 3/10/20 DATE 10-4-19	SCALE NONE	REV. 1 2 3 4 A	DESCRIPTION NONE	DCN No. 50-29-12132	DATE 10-18-19	PROJ ENGR .
SWING PANEL MATERIAL 14 GA. 316 ST. STEEL		SWING PANEL FINISH PREBRUSHED		UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES .xx $\pm .030$ ANGLES $\pm 2^\circ$.xxx $\pm .010$ $\sqrt{125}$ FRACTIONS $\pm 1/16$		THIS DOCUMENT OR DRAWING IS THE PROPERTY OF FW MURPHY PRODUCTION CONTROLS & COVERS CONTROLS AND/OR CIRCUITS ON WHICH U.S. & FOREIGN PATENTS HAVE BEEN ISSUED OR APPLIED FOR. NO PART MAY BE REPRODUCED OR USED WITHOUT THE CONSENT OF THE OWNER. FW MURPHY PRODUCTION CONTROLS IS NOT RESPONSIBLE FOR COPIES OF THIS DRAWING NOT APPROVED BY OUR ENGINEERS.				



INDIVIDUAL NAMEPLATE SCHEDULE				
QTY.	TAG #	LETTERS/TAG	DESCRIPTION	PART #
1	N1	B/W	<i>Serial no. tag</i>	THTEP-178-593-.5
1	N10	B/Y	EMERGENCY STOP	THTEP-170-593-.5YL
1	N11	B/W	PANEL POWER > OFF-ON	THTEP-170-593-.5
1	N11A	B/Y	<i>Power Warning Standard Tag</i>	THTEP-173-593-.25YL
1	N12	B/W	ENGINE POWER > OFF-ON	THTEP-170-593-.5
1	N13	B/W	PANEL LIGHT > OFF-ON	THTEP-170-593-.5
1	N21	B/W	1ST STG SUCTION > PRESSURE-SAFETY	THTEP-172-593-.5
1	N22	B/W	1ST STG SUCTION > PRESSURE-CONTROL	THTEP-172-593-.5
1	N23	B/W	1ST STG DISCHARGE > PRESSURE	THTEP-172-593-.5
1	N24	B/W	2ND STG SUCTION > PRESSURE	THTEP-172-593-.5
1	N25	B/W	2ND STG DISCHARGE > PRESSURE	THTEP-172-593-.5
1	N26	B/W	3RD STG SUCTION > PRESSURE	THTEP-172-593-.5
1	N27	B/W	3RD STG DISCHARGE > PRESSURE	THTEP-172-593-.5
1	N28	B/W	COMPRESSOR OIL > PRESSURE	THTEP-172-593-.5
1	N29	B/W	FUEL GAS FILTER > PRESSURE	THTEP-172-593-.5
1	N100	B/W	503012132 > C5-1-503412132	BY TEST

FW MURPHY®
PRODUCTION CONTROLS
Rosenberg, Texas

WARNING: Disconnect power before servicing.
WARNING: Substitution of parts may impair classification.

ENCLOSURE BOTTOM VIEW

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DRAWN BY		DLK						
	CHK'D BY	3-10-10	DLK					
	APPRO'D BY	3/10/10	DLK					
	DATE	10-4-19						
	ISCALE							
	REV.							
	DESCRIPTION							
	DCN. No.							
	DATE							
	PROJ. ENGR							

PANEL LAYOUT

WAUKESHA 12V275GL
ARIEL KBZ/4,
3 STAGE

YOUR NO.	REF NO.
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FW MURPHY.
PRODUCTION CONTROLS

EXTRAN.

WG. NO.	REV.
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3	DWG. NO. 50-29-12132	REV. A
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