



ALLSTAR w/ENCODER CONTROL PANEL



Rapid Roll 355 RapidRoll 3000

**975-A OLD NORCROSS ROAD
LAWRENCEVILLE, GA 30045
(770) 338-5000 TEL
(770) 338-5034 FAX
(877) 925-2468 TOLL FREE
Version Nov. 2006**

STATEMENT OF WARRANTY	2
SAFETY PRACTICES	3
INSTALLATION	4
Interconnection Wiring	5
ALL-STAR™ DRIVE SYSTEM WITH ENCODER SETUP	6
Setting the Door Limits	7
Final Checks	7
Electrical Prints	8
PANDX3 = Power Wiring	8
BPCADS = Reversing Photocell Wiring	9
BMDADS = Motion Detector Wiring	10
980086-4023 – Radio Receiver Wiring	11
BFL-VEK = Floor Loop Wiring	12
BPBPS = Pushbutton & Pull Cord Wiring	13
WAE35BF = Encoder and Motor Wiring	14
WAE35 = Interconnection Wiring – Model 355	15
AE35B = PLC Wiring – Model 355	16
AE35DX = PLC Wiring – Model 355	18
WAE3K = Interconnect Wiring – RapidRoll 3000	21
AE3KB = PLC Wiring – RapidRoll 3000	22
AE3KDX – PLC Wiring –RapidRoll 3000	24

NOTE

The attached electrical diagrams with these instructions are for reference purposes only and may show wiring for options not supplied with the door. Please refer to the actual schematics that are supplied with the control panel.

WARNING

DO NOT INSTALL, OPERATE, OR SERVICE THIS PRODUCT UNLESS YOU HAVE READ AND UNDERSTAND THE SAFETY PRACTICES, WARNINGS, INSTALLATION, AND MAINTENANCE INSTRUCTIONS CONTAINED IN THIS MANUAL.

STATEMENT OF WARRANTY

ONE YEAR WARRANTY ON DOOR PANEL, MECHANICAL & ELECTRICAL COMPONENTS

Albany Door Systems warrants to the original owner of the door that the door panel fabric, mechanical and electrical components will be free of defects in material and workmanship for a period of **twelve (12) months** from the date of shipment.

Only defects brought to the attention of **Albany Door Systems** during the warranty period will be covered by his warranty.

Albany Door Systems will replace any component parts, which are found to be defective upon inspection by an **Albany Door Systems** representative.

This warranty does not cover damage caused by collision or other abuse of the product. Adjustments made to the Control Panel or to the mechanical operation of the door without the authorization of **Albany Door Systems** will void this warranty.

The replacement provisions shall be the limit of **Albany Door Systems** responsibility under this warranty **Albany Door Systems** shall not be responsible for any other losses or damages due to the operation of any door or parts covered by this warranty.

No other oral or written representations made by **Albany Door Systems** or its agents are a part of this warranty unless specifically set forth in writing by an authorized **Albany Door Systems** official.

THE ABOVE SET FORTH WARRANTY IS SELLER'S SOLE WARRANTY. SELLER MAKES NO OTHER WARRANTY OF ANY KIND WHATSOEVER, EXPRESSED OR IMPLIED; AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEED THE AFORESTATED OBLIGATION ARE HEREBY DISCLAIMED BY SELLER AND EXCLUDED FROM THIS AGREEMENT.

USW-230.99

SAFETY PRACTICES

WARNING

THOROUGHLY READ THESE SAFETY PRACTICES PRIOR TO INSTALLING, OPERATING, OR SERVICING A HIGH-SPEED, RAPID ROLL® DOOR. FAILURE TO FOLLOW THESE SAFETY PRACTICES MAY RESULT IN PROPERTY DAMAGE, PERSONNEL BODILY INJURY, OR DEATH.

1. Do not operate a Rapid Roll® Door while you are under the influence of drugs or alcohol.
2. Do not use the door if any parts appear to be broken or damaged.
3. Stay clear of the door while it is operating.
4. Keep hands and feet clear of the door at all times.
5. Do not drive through the door opening unless door is completely open.
6. Maintain a clear door opening at all times. Keep the door opening free of any obstructions.
7. Remove power at the fused disconnect during all electrical or mechanical service. OSHA requires a disconnect to be properly tagged and locked out during all maintenance or service of equipment.
8. All electrical troubleshooting or service must be performed by a qualified electrician or service person and must meet all applicable local, state, federal, and other governing agency codes.
9. **USE EXTREME CAUTION** when it is necessary to service the control panel while it is energized.

WARNING

CONTROL PANEL CONTAINS HIGH VOLTAGE. QUALIFIED ELECTRICAL PERSONNEL SHOULD PERFORM THE FOLLOWING PROCEDURES ONLY. WIRING MUST MEET ALL LOCAL, STATE, FEDERAL, INTERNATIONAL, OR OTHER GOVERNMENT AGENCY CODES. FAILURE TO DO COULD RESULT IN SERIOUS INJURY OR DEATH.

If you have any questions, please contact your local Albany service provider for assistance. Otherwise contact Albany Door Systems 1-877-925-2468 for information on your local distributor.

INSTALLATION

The following instructions are guidelines for electrically installing a generic Rapid[®] Roll Door with and All-Star Drive System. Actual wiring may be different based on what options; special instructions, special components, etc. were ordered with the door. Consult the electrical schematics that are supplied with the door. These should be located inside the door's control panel.

WARNING

CONTROL PANEL CONTAINS HIGH VOLTAGE. QUALIFIED ELECTRICAL PERSONNEL SHOULD PERFORM THE FOLLOWING PROCEDURES ONLY. WHENEVER REMOVING POWER FROM THE CONTROL PANEL, WAIT AT LEAST 1 MINUTE PRIOR TO SERVICING TO ALLOW CAPACITORS INSIDE THE FREQUENCY INVERTER TO DRAIN. WIRING MUST MEET ALL LOCAL, STATE, FEDERAL, INTERNATIONAL, OR OTHER GOVERNMENT AGENCY CODES. FAILURE TO DO SO COULD RESULT IN SERIOUS INJURY OR DEATH.

NOTE

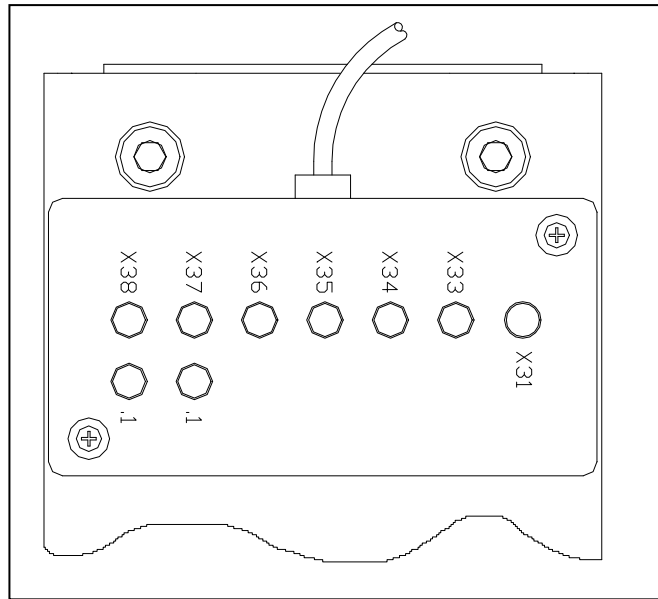
TO AID THE WIRING AND SERVICE OF ALL ELECTRICAL CIRCUITS, TAG OR LABEL ALL WIRE ENDS DURING THE FOLLOWING ELECTRICAL INSTALLATION. HIGH VOLTAGE POWER LEADS TO THE DRIVE UNIT MUST BE RUN IN A SEPARATE CONDUIT FROM THE LOW VOLTAGE CONTROL WIRES.

1. Ensure the mechanical installation of the door is complete.
2. Mount the control panel at a serviceable height on the drive side of the door.
3. Run two electrical conduits from the control panel to the drive unit. Install a suitable junction box at the drive unit for the motor leads. **RUN ENCODER WIRE IN A SEPARATE CONDUIT!** Install a separate suitable junction box for the Encoder wiring.
4. Run conduits from the control panel to the side frame(s) to accommodate the door jamb photocell(s) and the contactless safety edge (if supplied).
5. Install the pressure switch onto the bottom beam. Run the retractile cord to the control panel. Secure the retractile cable (if equipped) to the drive side side frame cover using supplied cable clamp.
6. Install all the actuators and wire according to the electrical wiring diagrams.
7. Install a non-fused disconnect beside the control panel.

CAUTION

VERIFY ALL FIELD WIRING TO ENSURE TERMINAL CONNECTIONS ARE TIGHT AND CORRECT. A FUSED DISCONNECT IS REQUIRED FOR EACH ALBANY DOOR AS A MEANS OF DISCONNECTING INCOMING POWER FROM THE CONTROL PANEL. THIS DISCONNECT IS NORMALLY SUPPLIED BY OTHERS.

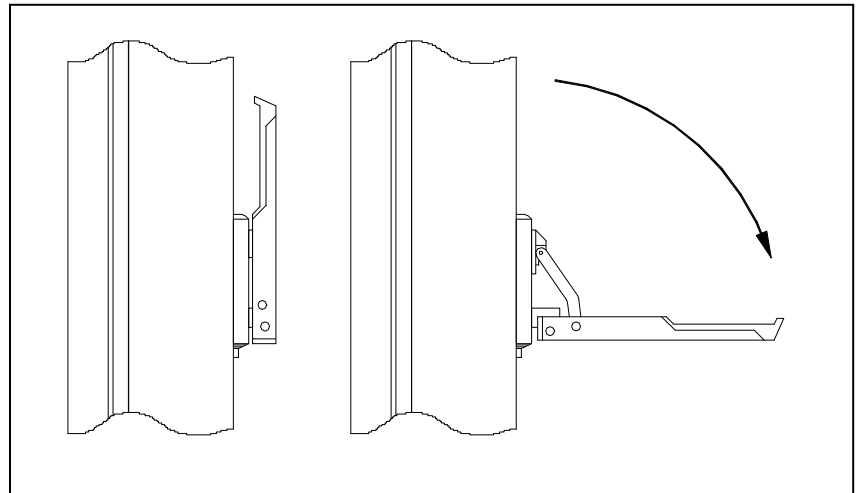
Interconnection Wiring



Label	What	Plug	Location
X31	THERMAL SWITCH	3 WIRE	BLK. WIRE MOTOR
X33	TOP OPEN PROX.	3 WIRE	BLK. WIRE SIDE FRAME
X35	PHOTOCELL RECEIVER	3 WIRE	LEFT SIDE FRAME
X36	PHOTOCELL TRANSMITTER	3 WIRE	RIGHT SIDE FRAME
X37.1	CSE RECIEVER	4 WIRE	RIGHT SIDE FRAME
X38.1	CSE TRANSMITTER	4 WIRE	LEFT SIDE FRAME

ALL-STAR™ DRIVE SYSTEM WITH ENCODER SETUP

1. Located on the side frame, pull down on the brake disengagement lever to release the brake. While the brake is released, manually move the door to the halfway point by pulling the door down. Allow brake to re-engage.



CAUTION

WHEN MANUALLY MOVING THE DOOR, GRAB HOLD OF THE ALUMINUM OF THE BOTTOMBEAM. DO NOT PULL ON THE YELLOW, AS IT MAY TEAR.

2. Apply power to the control panel. Check for correct line voltage at FU1, FU2, and FU3 with a voltmeter. (**Using a 460VAC to a 230 VAC inverter will result in damage to the inverter!**) Ensure the **POWER LED**'s on both the PLC and frequency inverter are lit. Also ensure that the **RUN LED** is lit on the PLC.

CAUTION

ALL STEPS ASSOCIATED WITH SETTING THE DOOR LIMITS MUST BE PERFORMED WITH EMERGENCY STOP BUTTON PULLED OUT.

3. Pull out the emergency stop button and put the system into the setup mode by pressing the **SETUP** button (located on the control panel backplate). The **RESET** button on the face of the panel should be illuminated. The 11-CR relay should also be energized also at this point. On the PLC the Y0, Y5 lights will be lit.
4. Using the **UP/DOWN JOG DOOR** switch located on the control panel backplate (small rocker switch), jog the door in the up direction. If the door opens, then go to the next step. If the door closes, then the phase rotation on the drive unit is backwards. Swap two of the three motor leads in the panel to change the motor rotation (Terminals T11, T12, and T13).

IMPORTANT NOTE

FOR THE FOLLOWING STEPS IT IS IMPORTANT TO ENSURE THE DOOR IS MOVING WHEN THE RESET BUTTON IS PUSHED TO SET THE CLOSE LIMIT. DO NOT RELEASE THE JOG SWITCH UNTIL DOOR HAS STOPPED MOVING.

Setting the Door Limits

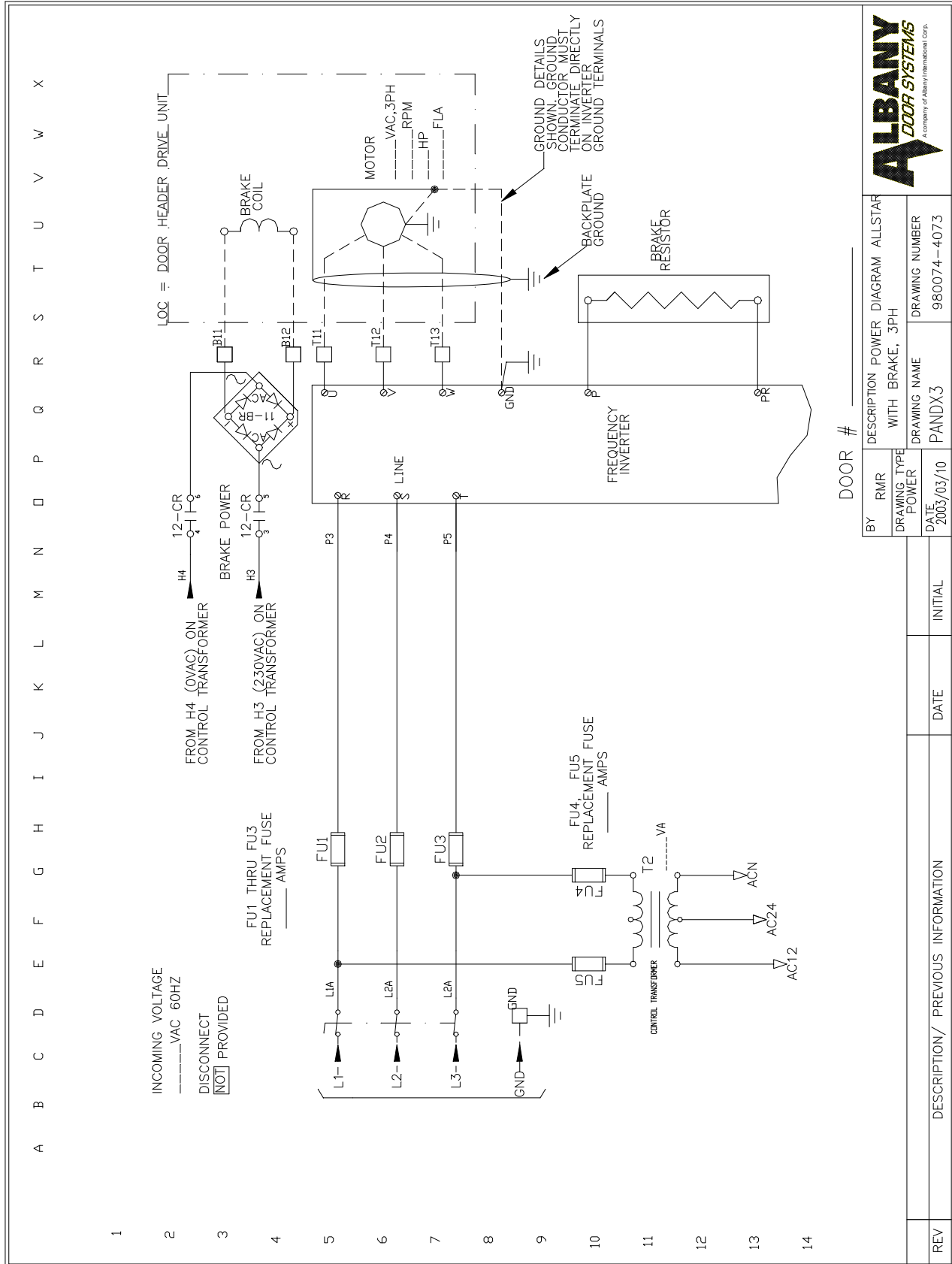
1. Press the **SETUP** button putting the door into the setup mode. The **RESET** should be illuminated at this point.
2. Using the **JOG SWITCH** to run the door down. While the door is closing, press the **RESET** button when the door reaches the desired bottom limit position. This would be before the door actually stops on the ground. The PLC will set this as the doors' bottom limit. The **RESET** button will go out also when you set this limit.
3. Put the system in the setup mode again by pressing the **SETUP** button.
4. Run the door open using the **JOG SWITCH**. When door reaches the open limit proximity switch, it will stop automatically and the top limit position will be set. The PLC will automatically set this as the doors top limit. The **RESET** light will also go out at this time.
5. Put the system in the setup mode by pressing the **SETUP** button.
6. Run the door to the halfway point using the **JOG SWITCH**. This time release the JOG SWITCH and allow the door to come to a complete stop. Press the RESET button to clear the setup mode.
7. Push the actuator button. As the door cycles, observe the open and close limits. Reset the limits as necessary to obtain exact desired limits (repeat steps 1-6 as necessary).
8. Check all actuators for proper operation. Check all reversing photocells for proper operation.
9. Verify the automatic operation of the door. The time delay to close is adjustable via an adjustment screw on the face of the PLC. If non-automatic mode is desired for door operation, turn the adjustment screw fully counterclockwise. In non-automatic mode, the actuator must be pulsed to open the door and pulsed again to close the door.

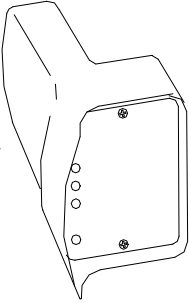
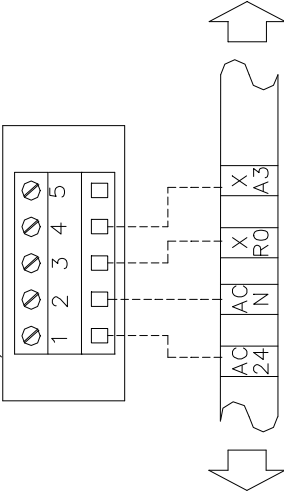
NOTE

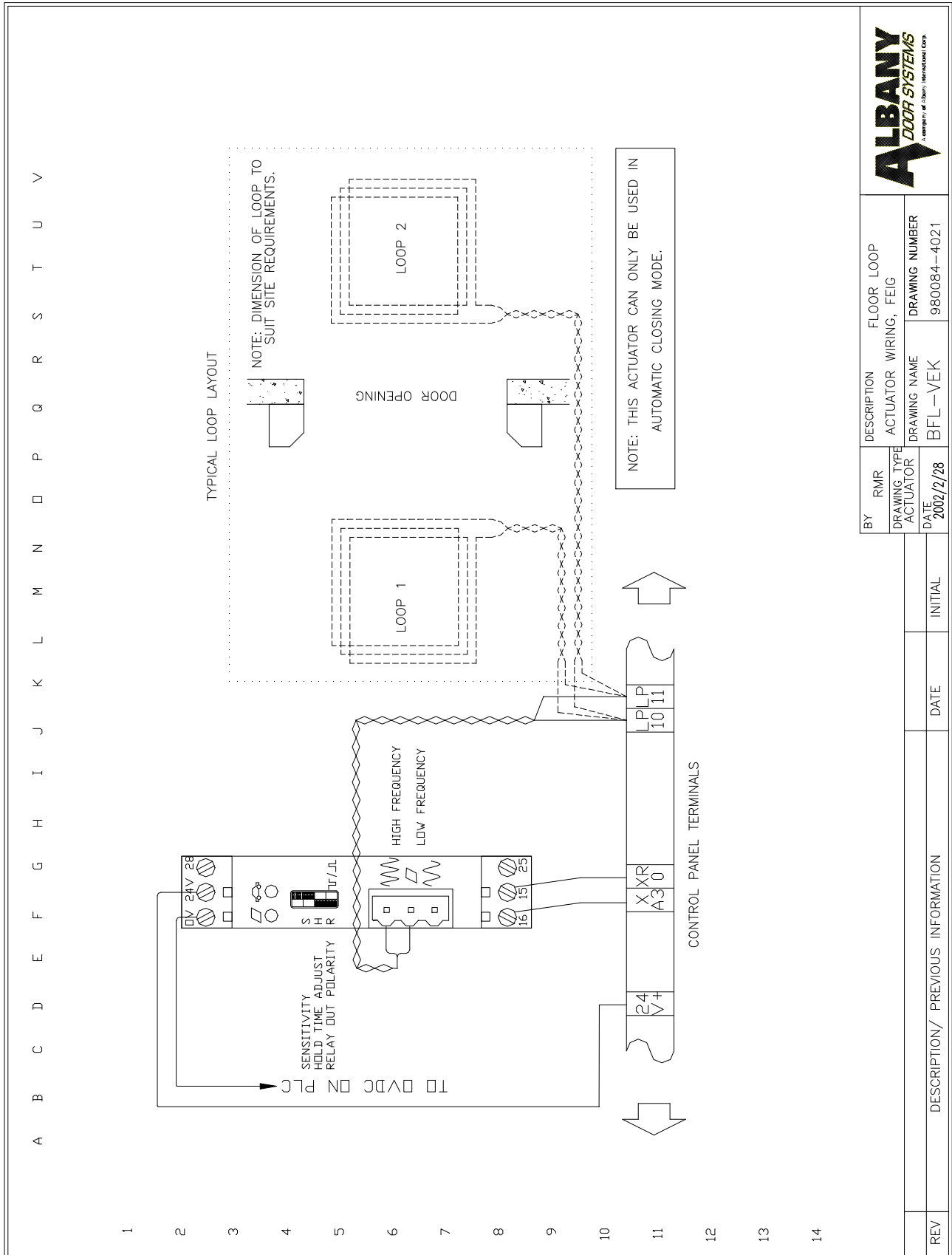
NON-AUTOMATIC MODE CANNOT BE USED WITH MOTION DETECTORS, LOOP DETECTORS, OR PRESENCE SENSORS.

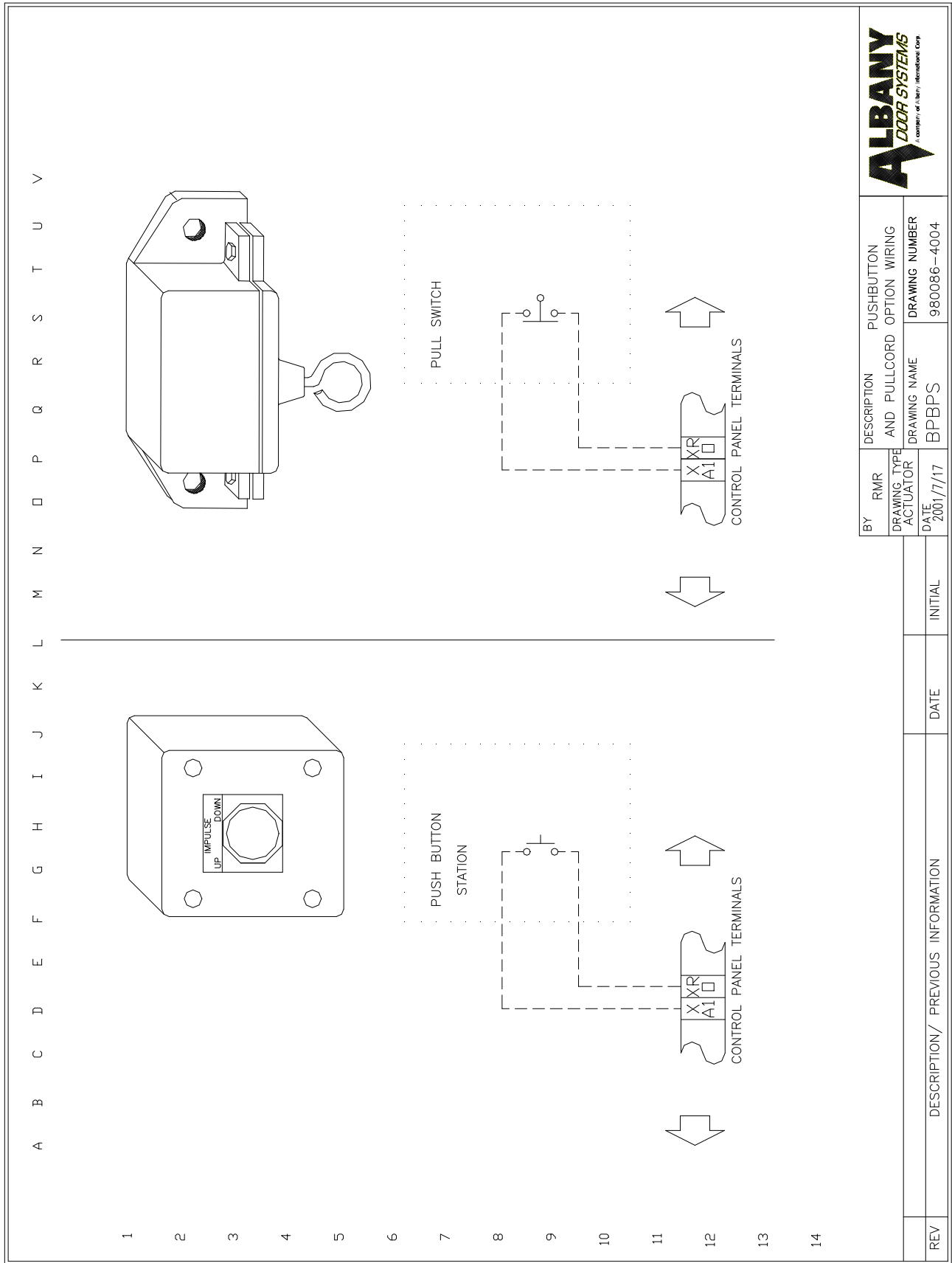
Final Checks

1. Check photocells for proper operation. Breaking the photocell beam should reverse the door
2. Check all actuators for proper operation.

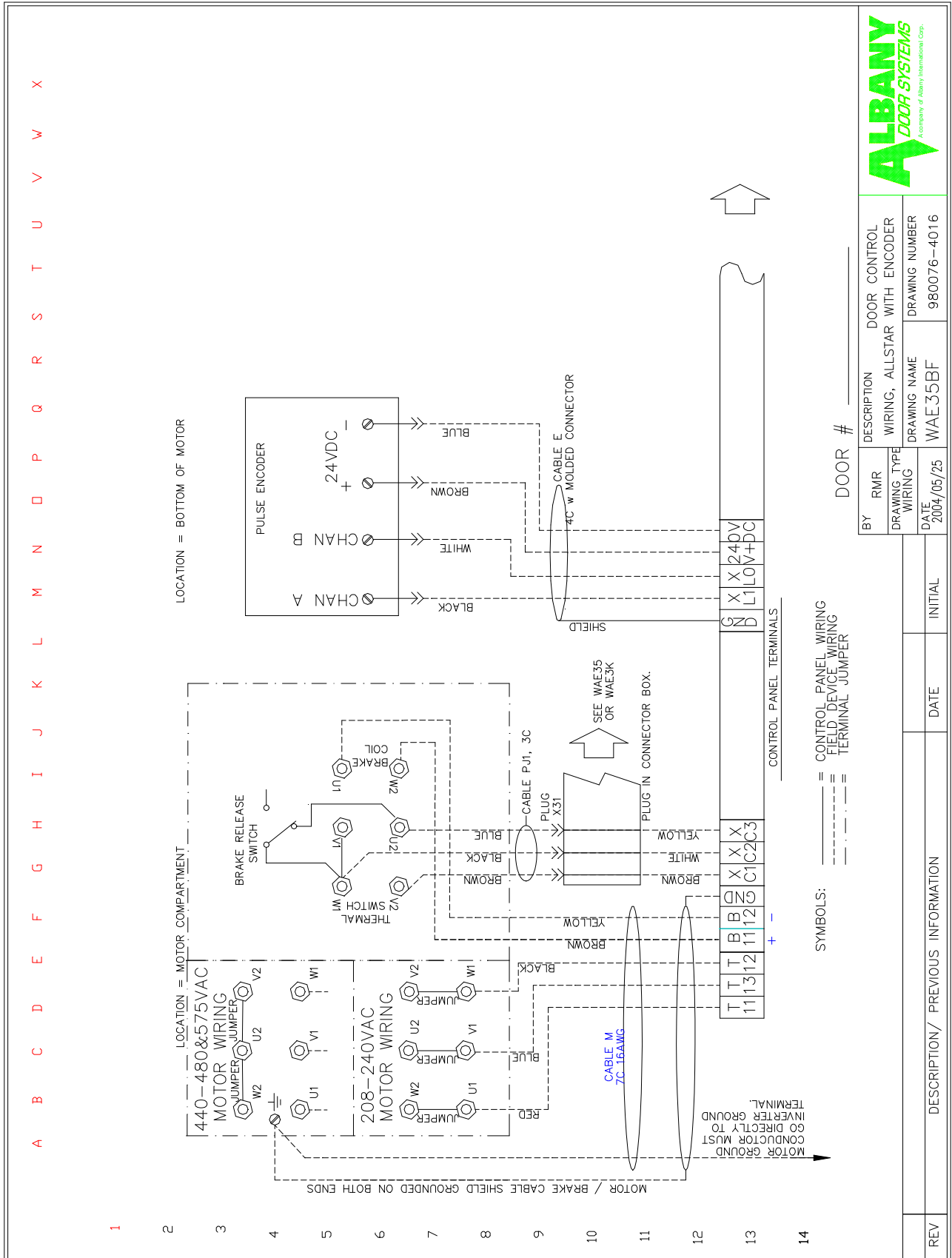


A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
1	<p>NOTE: DIP SWITCH SW1 AND ROTARY SWITCH SW2 ON THE ACS-50 CPU CARD MUST BE CONFIGURED FOR AUTOMATIC DOOR CLOSING WHEN USING THESE ACTUATORS.</p> 																						
2																							
3																							
4																							
5																							
6	<p>MOTION DETECTOR, ALBANY DOOR SYSTEMS MD-1 NOTES: 1) TERMINAL 1= 24VAC 2) TERMINAL 2= NEUTRAL 3) TERMINAL 3= RELAY COMMON 4) TERMINAL 4= RELAY N.O.</p>																						
7																							
8																							
9																							
10																							
11																							
12																							
13																							
14	<p>NOTES: (1) ALL INPUTS ARE 24VDC SYMBOLS: ——— = CONTROL PANEL WIRING - - - - - = FIELD DEVICE WIRING - · - · - = TERMINAL JUMPER/ FIELD DEVICE</p>																						
DOOR # _____		BY RMR		DESCRIPTION ACTUATOR WIRING		MOTION DETECTOR		DRAWING NUMBER		980086-4034		DATE		2002/4/8		BMDADS		DRAWING NAME		980086-4034			
REV	DESCRIPTION/ PREVIOUS INFORMATION										DATE	INITIAL											

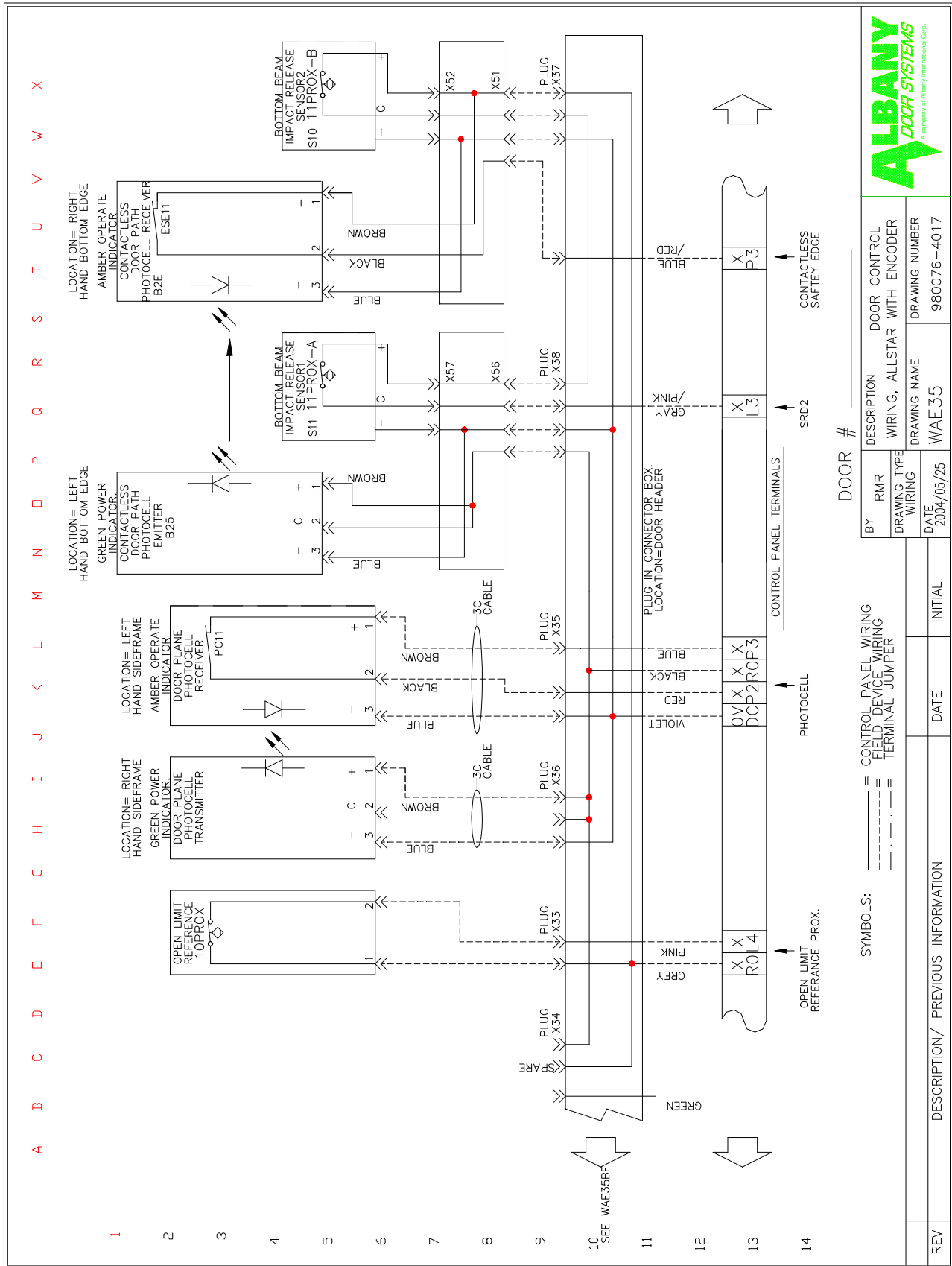




ALBANY DOOR SYSTEMS <small>A company of Albany International Corp.</small>	
BY RMR	DESCRIPTION PUSHBUTTON AND PULLCORD OPTION WIRING
DRAWING TYPE ACTUATOR	DRAWING NAME BBPS
DATE 2001/7/17	DRAWING NUMBER 980086-4004



Interconnection Wiring – RR355



BY	RMR	DESCRIPTION	DOOR CONTROL WIRING, ALLSTAR WITH ENCODER
DRAWING TYPE	WIRING	DRAWING NAME	WAE35
DATE	2004/05/25	DRAWING NUMBER	980076-4017

REV	DESCRIPTION/ PREVIOUS INFORMATION	DATE	INITIAL
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SYMBOLS:

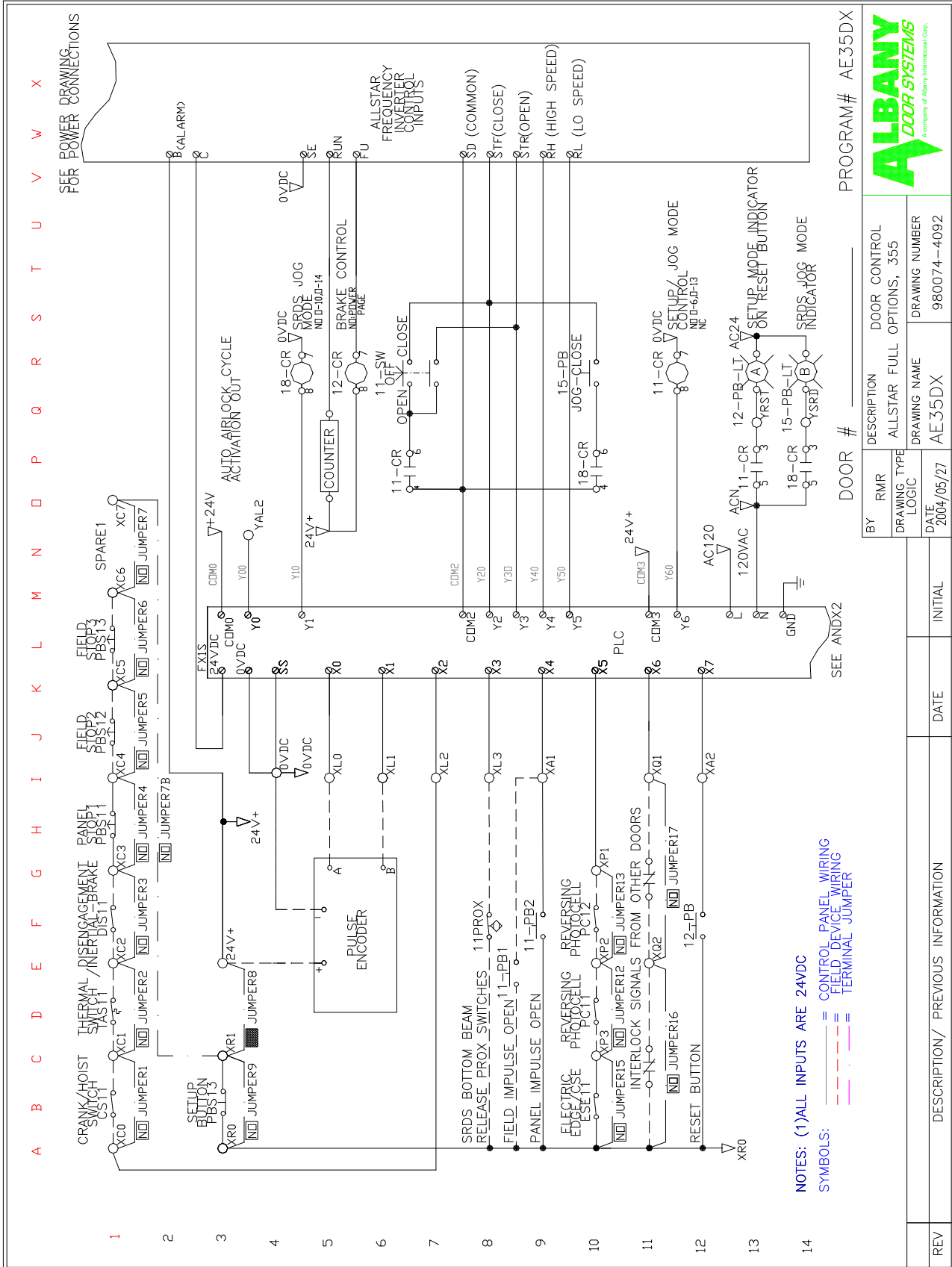
- = CONTROL PANEL WIRING
- - - = FIELD DEVICE WIRING
- · · = TERMINAL JUMPER

TROUBLESHOOTING GUIDE For programs AE35B

WARNING: ALL ELECTRICAL TROUBLESHOOTING OR SERVICE MUST BE PERFORMED BY A QUALIFIED ELECTRICIAN OR SERVICE PERSON AND MUST MEET ALL APPLICABLE LOCAL, STATE, FEDERAL, AND OTHER GOVERNING AGENCY CODES. EXERCISE EXTREME CAUTION WHEN IT IS NECESSARY TO SERVICE THE CONTROL PANEL WHILE IT IS ENERGIZED.

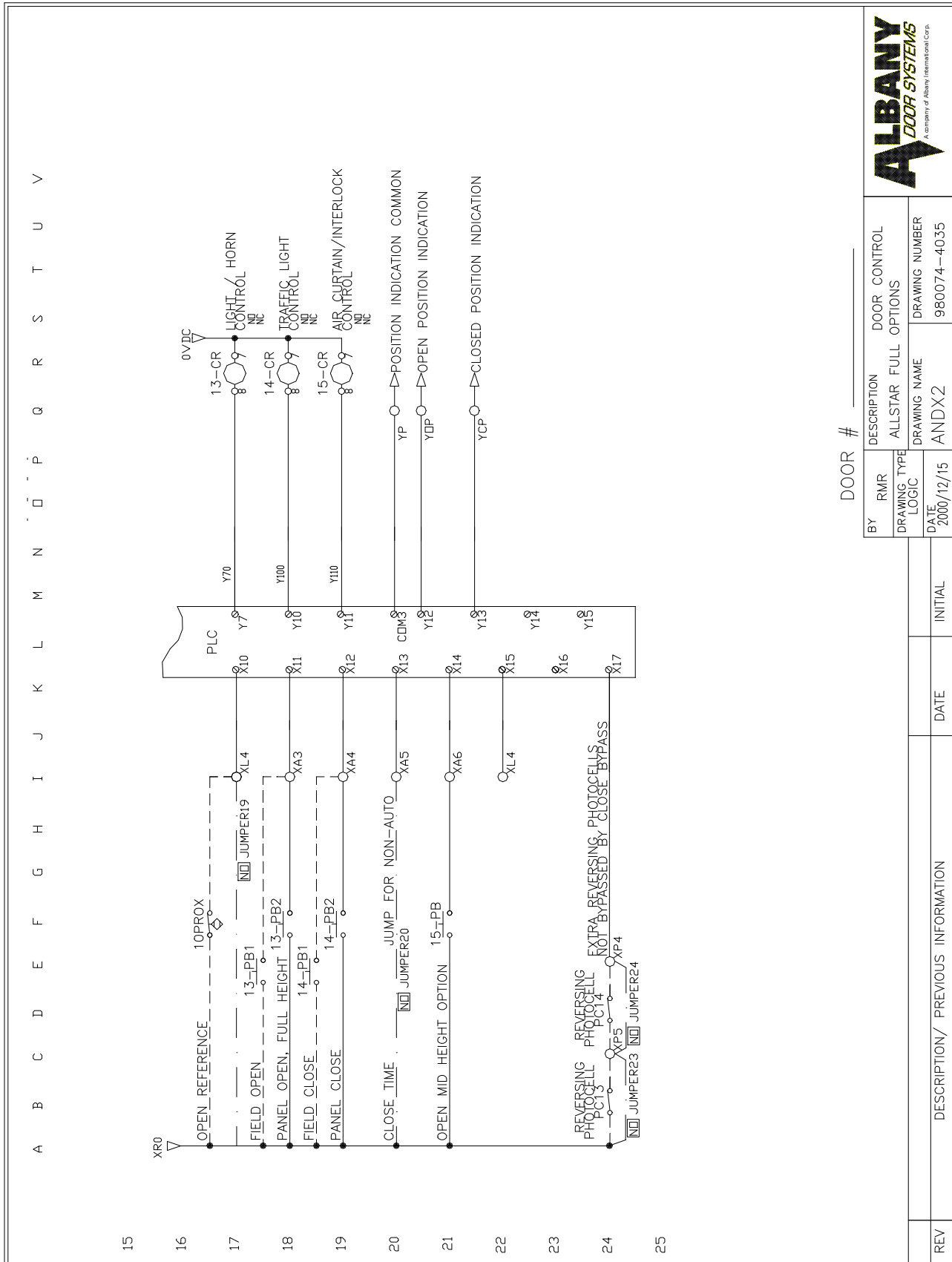
The **POWER** and **RUN** green LED's on the PLC must be on. If not, check for 120V power to terminals AC12 & ACN. If no power is present, de-energize control panel and check main disconnect and all control panel fuses. Fuses **FU1 thru FU3** are the main power supply to the panel. Fuses **FU4 & FU5** are for 120 VAC power supply to the PLC. At least one, red input LED's on the PLC should be on. If not, ensure the **EMERGENCY STOP** button is pulled out. If no inputs turn on, check for missing jumpers and/or switch wiring in series with the **EMERGENCY STOP** button (i.e. crank/chain hoist switch, thermal overloads, inertia brake contact, etc.).

PLC INPUTS (X0-X7)		
INPUTS ("IN" LED'S)	Terminal #	DESCRIPTION
0	XL0	Encoder Position Signal – Channel A. Flickers when doors runs.
1	XL1	Encoder Position Signal – Channel B. Flickers when doors runs.
2	XL2	Shutdown Devices. Should be lit unless a shutdown device (E-Stop, Crank Switch, ect) or SRD is activated
3	XL3	SRDS Proximity. Should be lit unless bottom beam is hit out.
3-7		Setup. ALL Should be lit unless the setup button has been tripped.
4	XA1	Actuator Impulse Open. Will come on for as long as the actuator has been activated. If on continuously, check actuators.
5	XP1, XP2, XP3	Safety Devices. Photocell, CSE and Reversing edge contacts are wired in series with this input. Should be on unless a safety device is activated. (N/C)
6	XL4	Open Reference Prox. Should be on unless door is near open position.
7	XA2	Reset Button. Will Reset the door when activated.



BY	RMR	DESCRIPTION	DOOR CONTROL
DRAWING TYPE	LOGIC	ALLSTAR FULL OPTIONS, 355	
DATE	2004/05/27	DRAWING NAME	AE35DX
		DRAWING NUMBER	980074-4092

REV	DESCRIPTION/ PREVIOUS INFORMATION	DATE	INITIAL



DOOR # _____

BY	RMR	DESCRIPTION	DOOR CONTROL
DRAWING TYPE	LOGIC	ALLSTAR FULL OPTIONS	
DATE	2000/12/15	DRAWING NAME	ANDX2
		DRAWING NUMBER	980074-4035

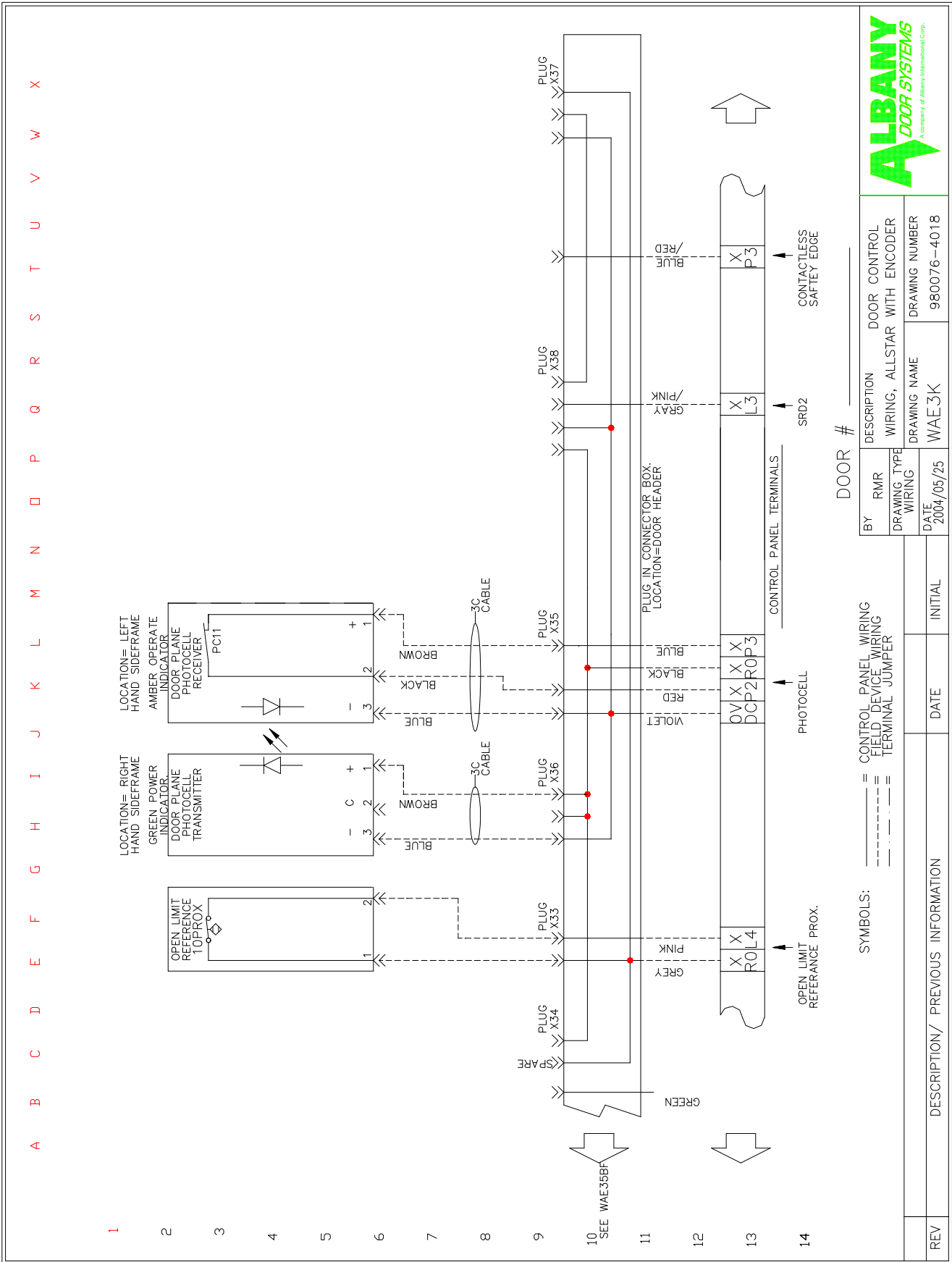


TROUBLESHOOTING GUIDE For program AE35DX

WARNING: ALL ELECTRICAL TROUBLESHOOTING OR SERVICE MUST BE PERFORMED BY A QUALIFIED ELECTRICIAN OR SERVICE PERSON AND MUST MEET ALL APPLICABLE LOCAL, STATE, FEDERAL, AND OTHER GOVERNING AGENCY CODES. EXERCISE EXTREME CAUTION WHEN IT IS NECESSARY TO SERVICE THE CONTROL PANEL WHILE IT IS ENERGIZED.

The **POWER** and **RUN** green LED's on the PLC must be on. If not, check for 120V power to terminals AC12 & ACN. If no power is present, de-energize control panel and check main disconnect and all control panel fuses. Fuses **FU1 thru FU3** are the main power supply to the panel. Fuses **FU4 & FU5** are for 120 VAC power supply to the PLC. At least one, red input LED's on the PLC should be on. If not, ensure the **EMERGENCY STOP** button is pulled out. If no inputs turn on, check for missing jumpers and/or switch wiring in series with the **EMERGENCY STOP** button (i.e. crank/chain hoist switch, thermal overloads, inertia brake contact, etc.).

PLC INPUTS (X0-X17)		
INPUTS ("IN" LED'S)	Terminal #	DESCRIPTION
0	XL0	Encoder Position Signal – Channel A. Flickers when doors runs.
1	XL1	Encoder Position Signal – Channel B. Flickers when doors runs.
2	XL2	Shutdown Devices. Should be lit unless a shutdown device (E-Stop, Crank Switch, ect.) or SRD is activated
3	XL3	SRDS Proximity. Should be lit unless bottom beam is hit out.
3 THRU 17		Setup. Should be lit unless the setup button has been tripped.
4	XA1	Impulse Open. Will come lit for as long as the actuator has been activated. If on continuously, check actuators.
5	XP1, XP2, XP3	Safety Devices. Photocell, CSE and Reversing edge contacts are wired in series with this input. Should be lit unless a safety device is activated. (N/C)
6	XQ1, XQ2	Interlock. Needs be lit to enable door operation, or jumped out if no interlock is being using.
7	XA2	Reset Button. Will Reset the door when activated.
10	XL4	Open Reference Proximity. Should be on unless door is near open position.
11	XA3	Actuator Full Height Open. Will come lit for as long as the actuator has been activated. If on continuously, check actuators.
12	XA4	Actuator Close. Will come on for as long as the actuator has been activated. If on continuously, check actuators.
13	XA5	Auto/Manual. Jump for non-auto. (Will be lit when in Manual mode)
14	XA6	Actuator Mid Height Open. Will become lit for as long as the actuator has been activated. If on continuously, check actuators.
17	XP4, XP5	Extra Reversing Photocells. Will be lit (N/C). If no photocells are being used, should be jumped out for normal door operation.



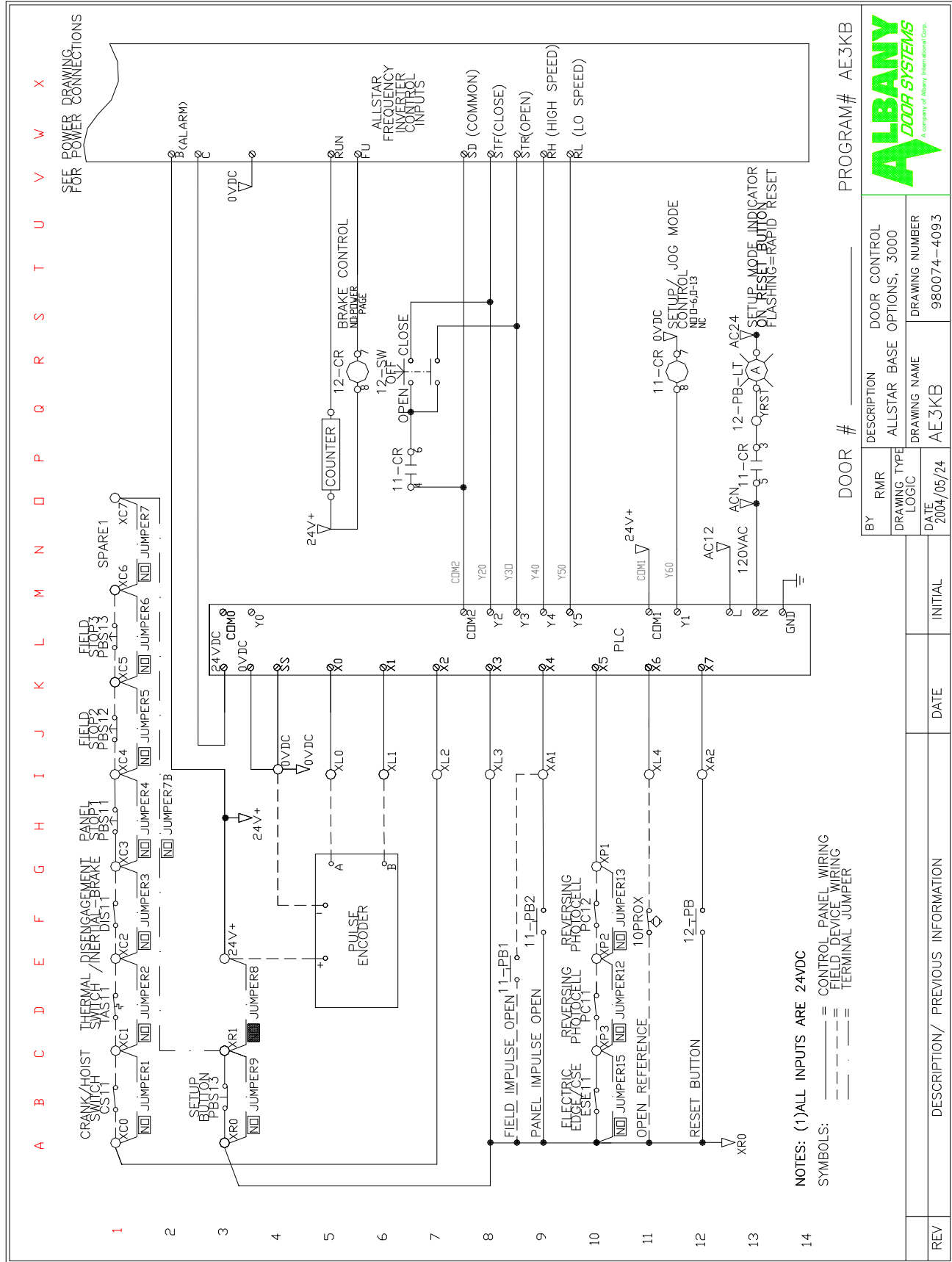
BY	RMR	DESCRIPTION	DOOR CONTROL WIRING, ALLSTAR WITH ENCODER
DRAWING TYPE	WIRING	DRAWING NAME	WAE.3K
DATE	2004/05/25	DRAWING NUMBER	980076-4018

SYMBOLS:

- = CONTROL PANEL WIRING
- - - = FIELD DEVICE WIRING
- · - · - = TERMINAL JUMPER

REV	DESCRIPTION/ PREVIOUS INFORMATION	DATE	INITIAL
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AE3KB- PLC Wiring – RapidRoll 3000



PROGRAM# AE3KB



BY	RMR	DESCRIPTION	DOOR CONTROL
DRAWING TYPE	LOGIC	ALLSTAR BASE OPTIONS, 3000	
DATE	2004/05/24	DRAWING NAME	AE3KB
		DRAWING NUMBER	980074-4093

DOOR # _____

REV	DESCRIPTION/ PREVIOUS INFORMATION	DATE	INITIAL

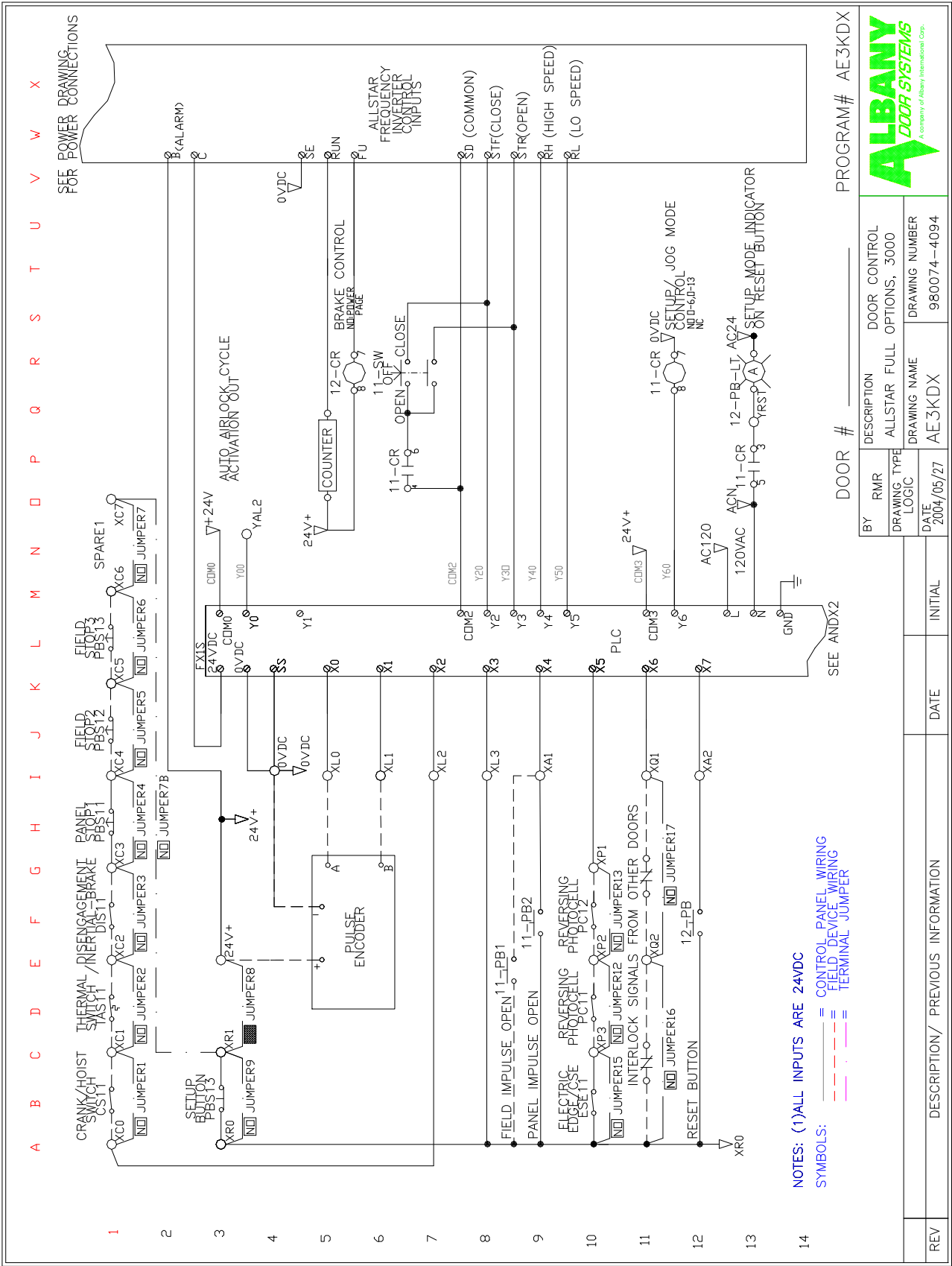


TROUBLESHOOTING GUIDE For programs AE3KB

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The **POWER** and **RUN** green LED's on the PLC must be on. If not, check for 120V power to terminals AC12 & ACN. If no power is present, de-energize control panel and check main disconnect and all control panel fuses. Fuses **FU1 thru FU3** are the main power supply to the panel. Fuses **FU4 & FU5** are for 120 VAC power supply to the PLC. At least one, red input LED's on the PLC should be on. If not, ensure the **EMERGENCY STOP** button is pulled out. If no inputs turn on, check for missing jumpers and/or switch wiring in series with the **EMERGENCY STOP** button (i.e. crank/chain hoist switch, thermal overloads, inertia brake contact, etc.).

PLC INPUTS (X0-X7)		
INPUTS ("IN" LED'S)	Terminal #	DESCRIPTION
0	XL0	Encoder Position Signal – Channel A. Flickers when doors runs.
1	XL1	Encoder Position Signal – Channel B. Flickers when doors runs.
2	XL2	Shutdown Devices. Should be lit unless a shutdown device (E-Stop, Crank Switch, ect) or SRD is activated
3	XL3	SRDS Proximity. Should be lit unless bottom beam is hit out.
3-7		Setup. ALL Should be lit unless the setup button has been tripped.
4	XA1	Actuator Impulse Open. Will come on for as long as the actuator has been activated. If on continuously, check actuators.
5	XP1, XP2, XP3	Safety Devices. Photocell, CSE and Reversing edge contacts are wired in series with this input. Should be on unless a safety device is activated. (N/C)
6	XL4	Open Reference Prox. Should be on unless door is near open position.
7	XA2	Reset Button. Will Reset the door when activated.

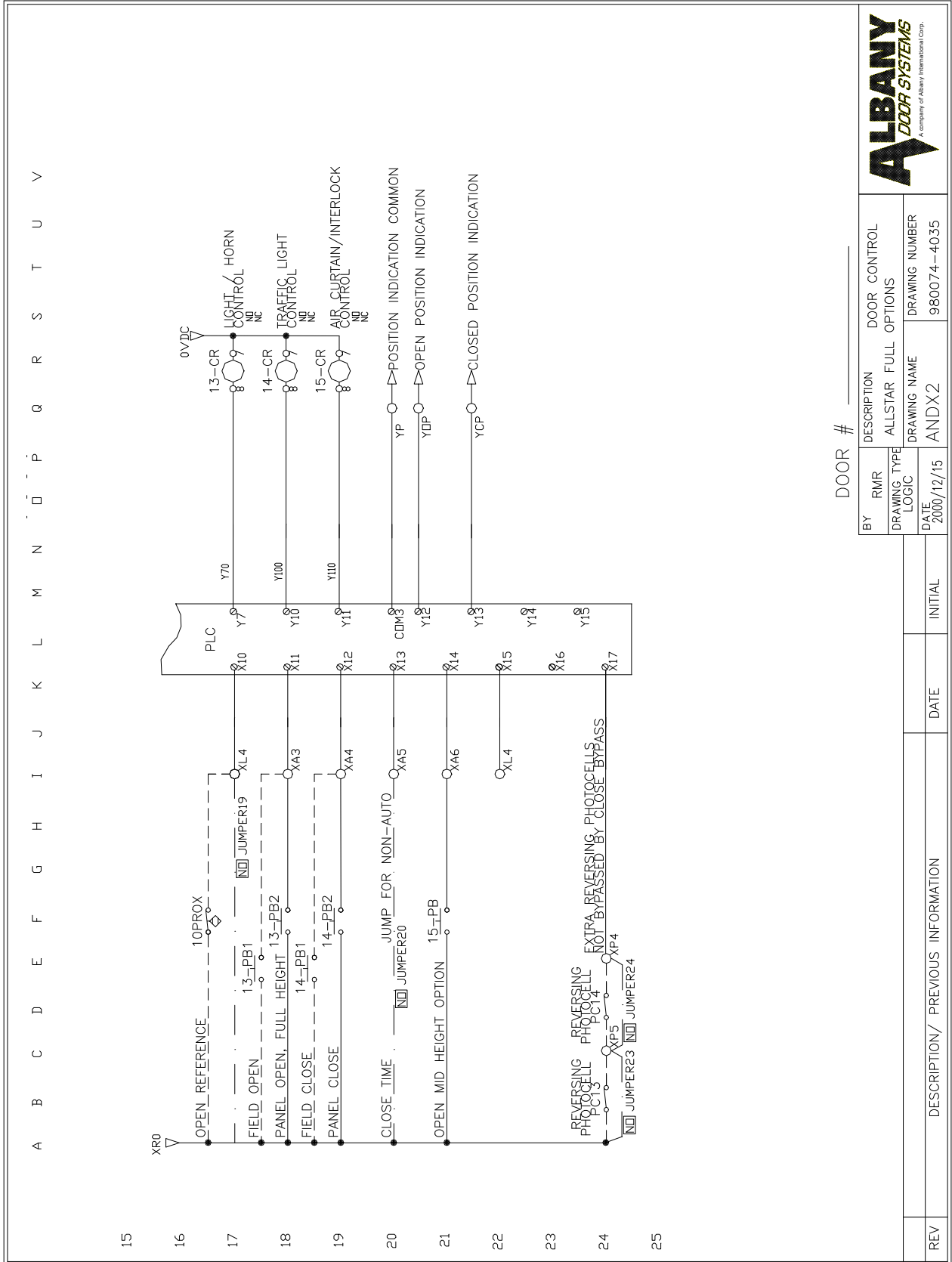


REV	DESCRIPTION/ PREVIOUS INFORMATION	DATE	INITIAL

BY	RMR	DESCRIPTION	DOOR CONTROL
DRAWING TYPE	LOGIC	ALLSTAR FULL OPTIONS, 3000	
DATE	2004/05/27	DRAWING NAME	AE3KDX
		DRAWING NUMBER	980074-4094

PROGRAM # AE3KDX





DOOR # _____

BY	RMR	DESCRIPTION	DOOR CONTROL
DRAWING TYPE	LOGIC	ALLSTAR FULL OPTIONS	
DATE	2000/12/15	DRAWING NAME	DRAWING NUMBER
		ANDX2	980074-4035



TROUBLESHOOTING GUIDE For program AE35DX

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The **POWER** and **RUN** green LED's on the PLC must be on. If not, check for 120V power to terminals AC12 & ACN. If no power is present, de-energize control panel and check main disconnect and all control panel fuses. Fuses **FU1 thru FU3** are the main power supply to the panel. Fuses **FU4 & FU5** are for 120 VAC power supply to the PLC. At least one, red input LED's on the PLC should be on. If not, ensure the **EMERGENCY STOP** button is pulled out. If no inputs turn on, check for missing jumpers and/or switch wiring in series with the **EMERGENCY STOP** button (i.e. crank/chain hoist switch, thermal overloads, inertia brake contact, etc.).

PLC INPUTS (X0-X17)		
INPUTS ("IN" LED'S)	Terminal #	DESCRIPTION
0	XL0	Encoder Position Signal – Channel A. Flickers when doors runs.
1	XL1	Encoder Position Signal – Channel B. Flickers when doors runs.
2	XL2	Shutdown Devices. Should be lit unless a shutdown device (E-Stop, Crank Switch, ect.) or SRD is activated
3	XL3	SRDS Proximity. Should be lit unless bottom beam is hit out.
3 THRU 17		Setup. Should be lit unless the setup button has been tripped.
4	XA1	Impulse Open. Will come lit for as long as the actuator has been activated. If on continuously, check actuators.
5	XP1, XP2, XP3	Safety Devices. Photocell, CSE and Reversing edge contacts are wired in series with this input. Should be lit unless a safety device is activated. (N/C)
6	XQ1, XQ2	Interlock. Needs be lit to enable door operation, or jumped out if no interlock is being using.
7	XA2	Reset Button. Will Reset the door when activated.
10	XL4	Open Reference Proximity. Should be on unless door is near open position.
11	XA3	Actuator Full Height Open. Will come lit for as long as the actuator has been activated. If on continuously, check actuators.
12	XA4	Actuator Close. Will come on for as long as the actuator has been activated. If on continuously, check actuators.
13	XA5	Auto/Manual. Jump for non-auto. (Will be lit when in Manual mode)
14	XA6	Actuator Mid Height Open. Will become lit for as long as the actuator has been activated. If on continuously, check actuators.
17	XP4, XP5	Extra Reversing Photocells. Will be lit (N/C). If no photocells are being used, should be jumped out for normal door operation.

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