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JOB NAME:

211 WEST 14TH STREET NY PE1

JOB NUMBER:

16-18651

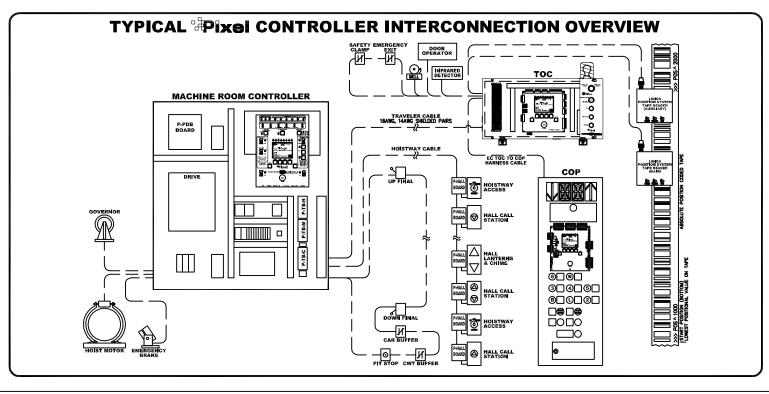
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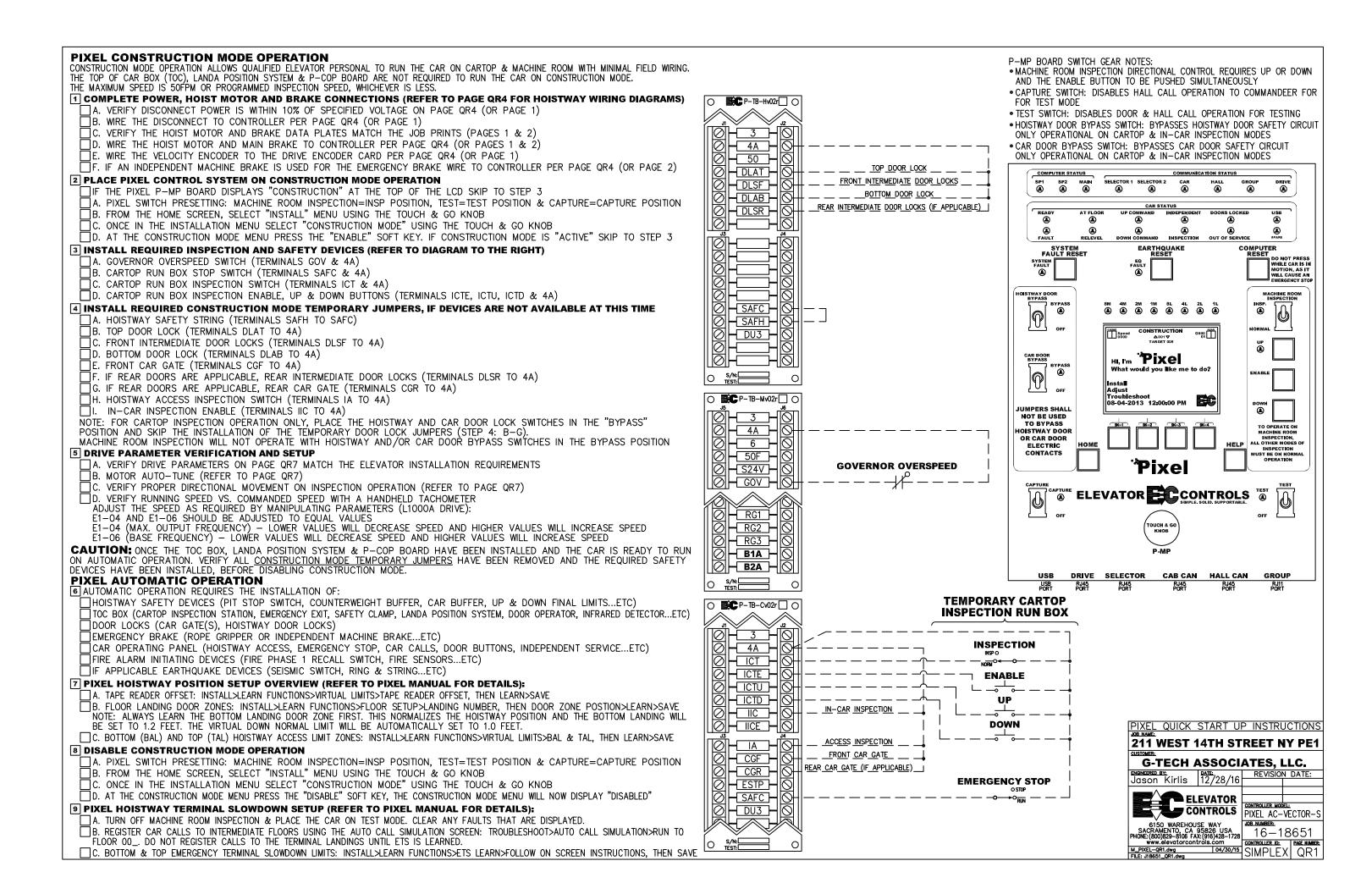
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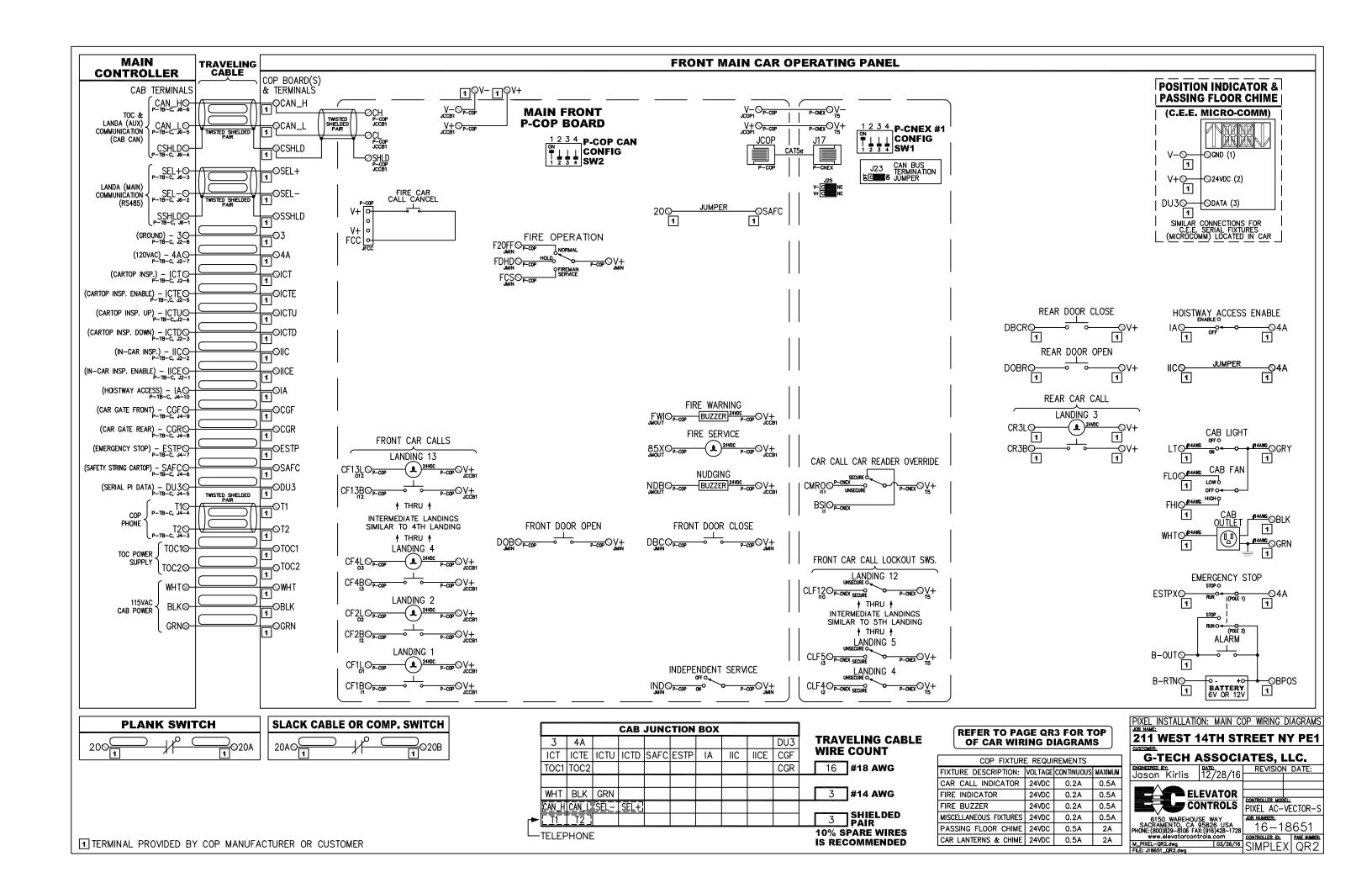
PIXEL AC-VECTOR-S

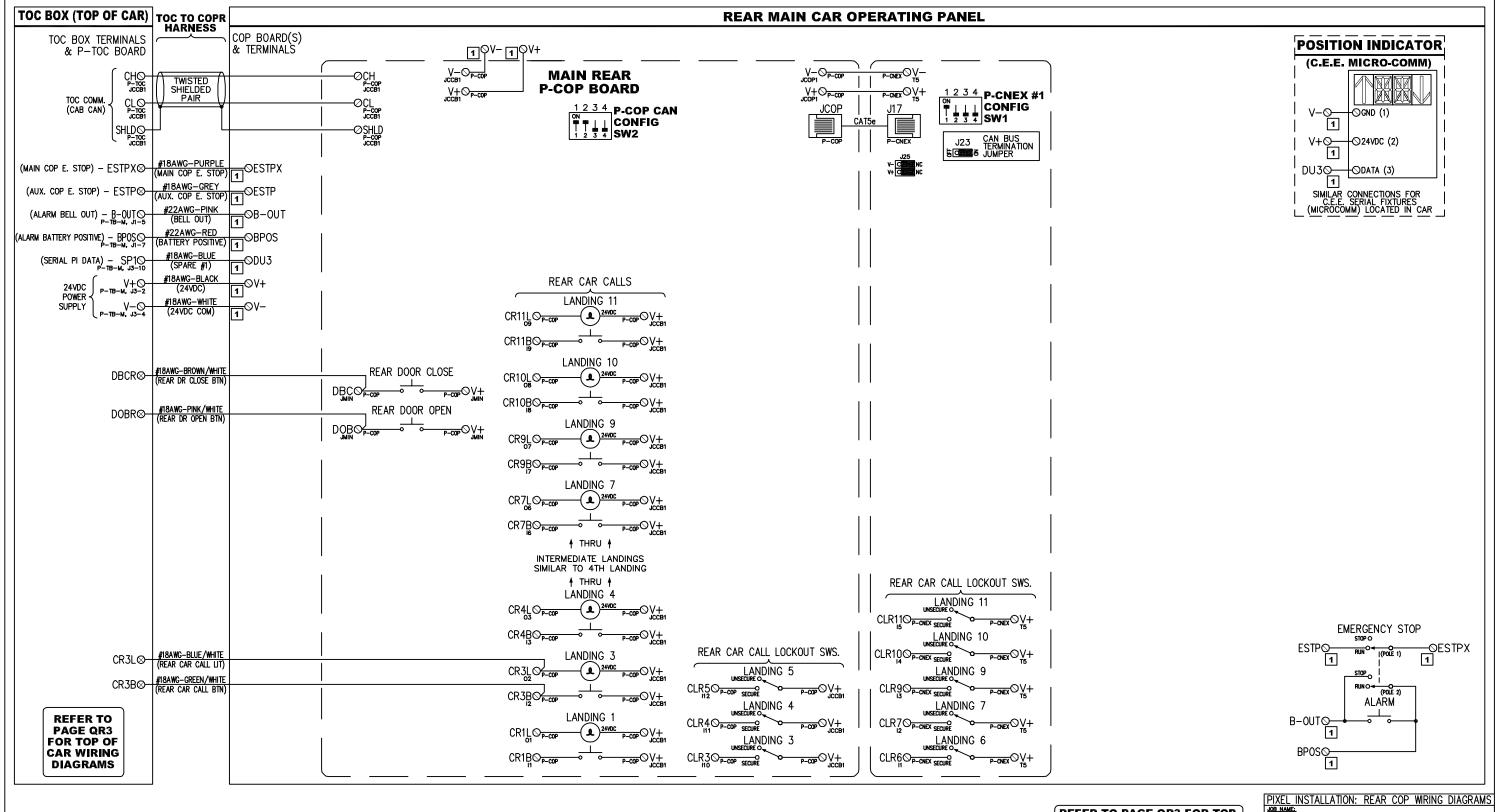
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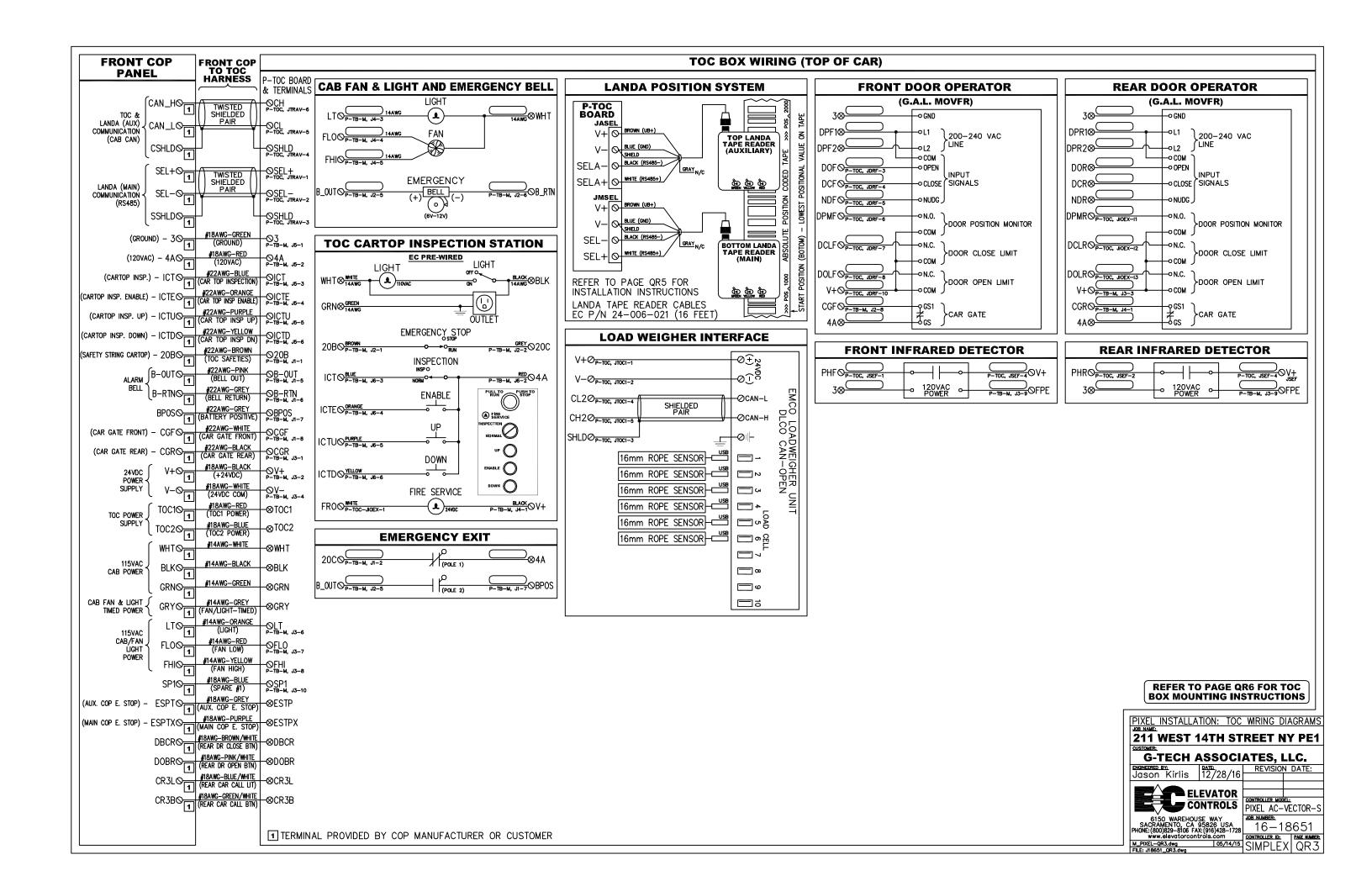


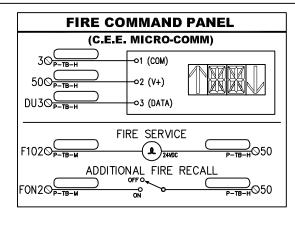
REFER TO PAGE QR3 FOR TOP OF CAR WIRING DIAGRAMS

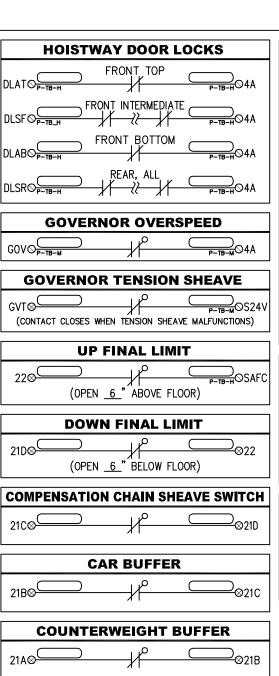
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FIXTURE DESCRIPTION:	VOLTAGE	CONTINUOUS	MAXIMUM	E
CAR CALL INDICATOR	24VDC	0.2A	0.5A	F.
FIRE INDICATOR	24VDC	0.2A	0.5A	
FIRE BUZZER	24VDC	0.2A	0.5A	
MISCELLANEOUS FIXTURES	24VDC	0.2A	0.5A	
PASSING FLOOR CHIME	24VDC	0.5A	2A	PI
CAR LANTERNS & CHIME	24VDC	0.5A	2A	-

	[PIXEL INSTALLATION: REAR COP WIRING DIAGRAMS]
P	211 WEST 14TH STREET NY PE1
	G-TECH ASSOCIATES, LLC.
XIMUM	Date: REVISION DATE: 12/28/16
).5A	
).5A	ELEVATOR CONTROLLER MODEL:
).5A	CONTROLS PIXEL AC-VECTOR-S
).5A	6150 WAREHOUSE WAY
2A	SACRAMENTO, CA 95826 USA PHONE: (800)829-8106 FAX: (916)428-1728 16-18651
2A	Www.elevatorcontrols.com CONTROLLER ID: PAGE NUMBER: M_PIXEL-QR2.dwg 03/26/16 CIM/DICV \ \D\D\D\D\D\
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1 TERMINAL PROVIDED BY COP MANUFACTURER OR CUSTOMER

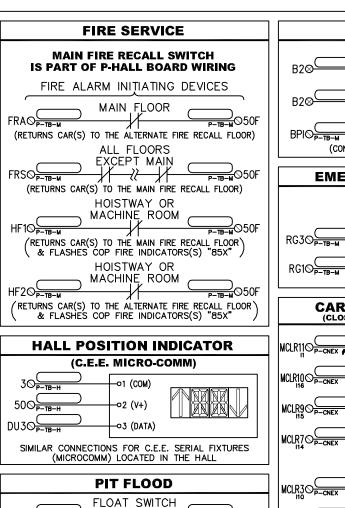


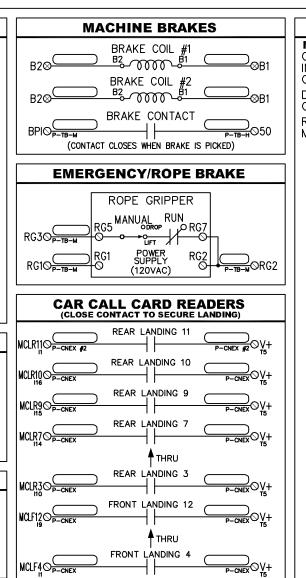


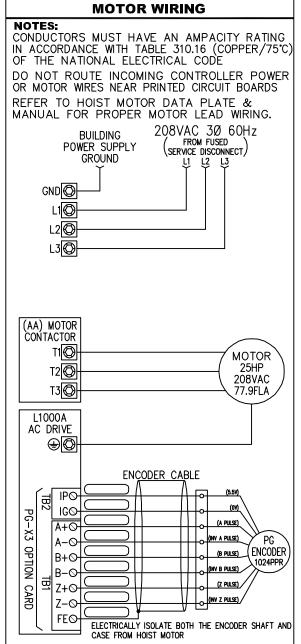


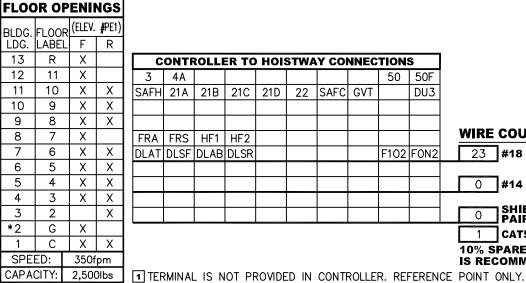
PIT EMERGENCY STOP SWITCH

SAFHO P-TR-L





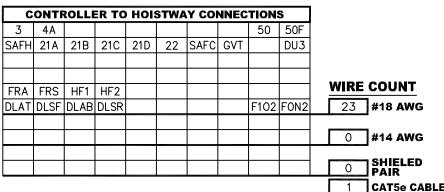




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PITIO P-TB-N

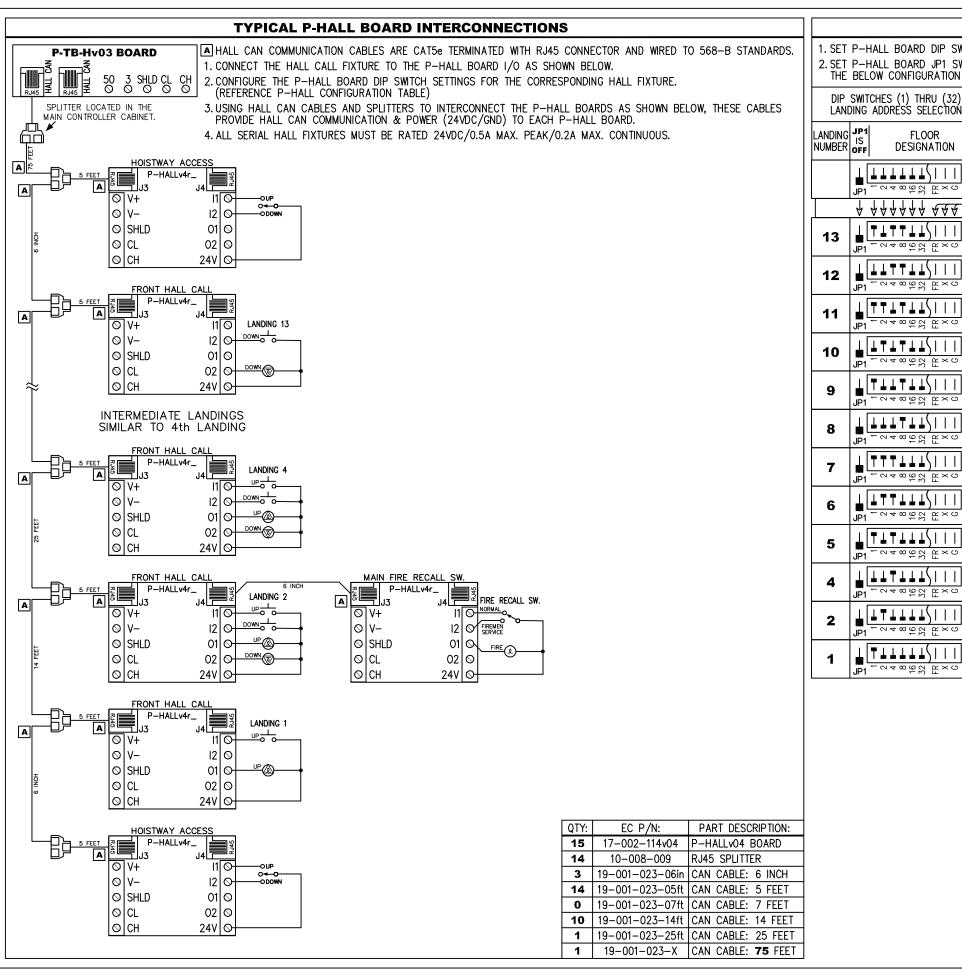
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10% SPARE WIRES

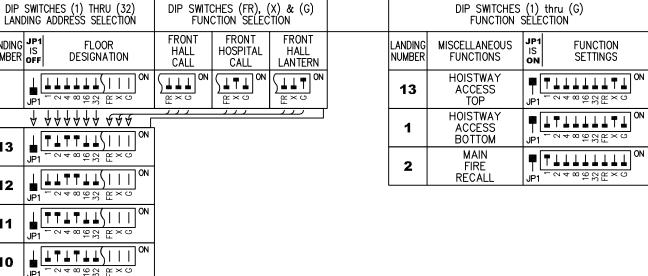
IS RECOMMENDED

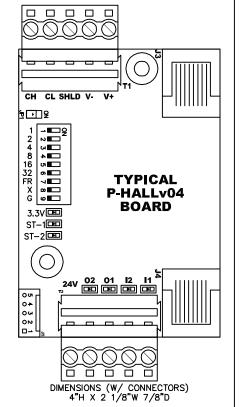
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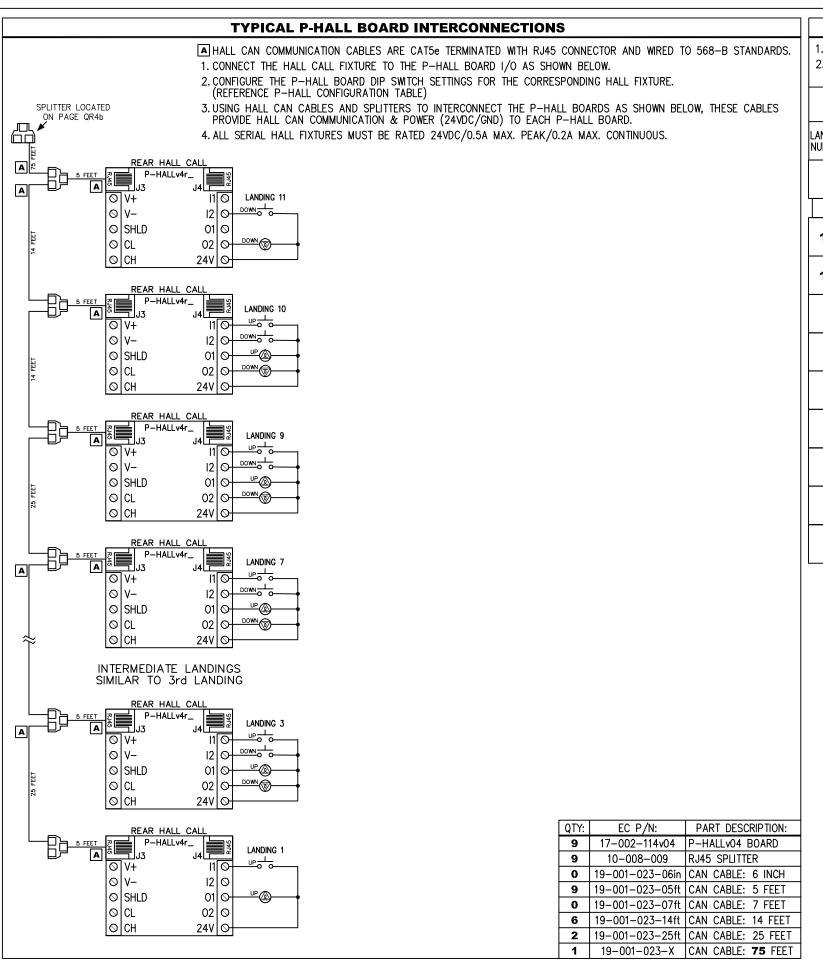
P-HALL BOARD CONFIGURATION TABLE

SET P-HALL BOARD DIP SWITCHES FOR THE RESPECTIVE LANDING NUMBER AND FUNCTION, USING THE BELOW CONFIGURATION TABLE.
 SET P-HALL BOARD JP1 SWITCH FOR THE RESPECTIVE FUNCTION BY SLIDING THE SWITCH INTO THE APPROPRIATE POSITION, USING
THE BELOW CONFIGURATION TABLE.





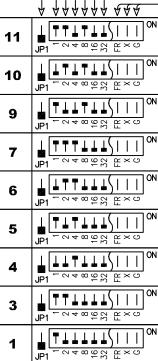


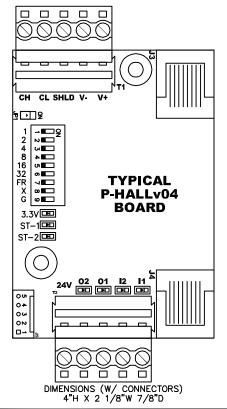


P-HALL BOARD CONFIGURATION TABLE

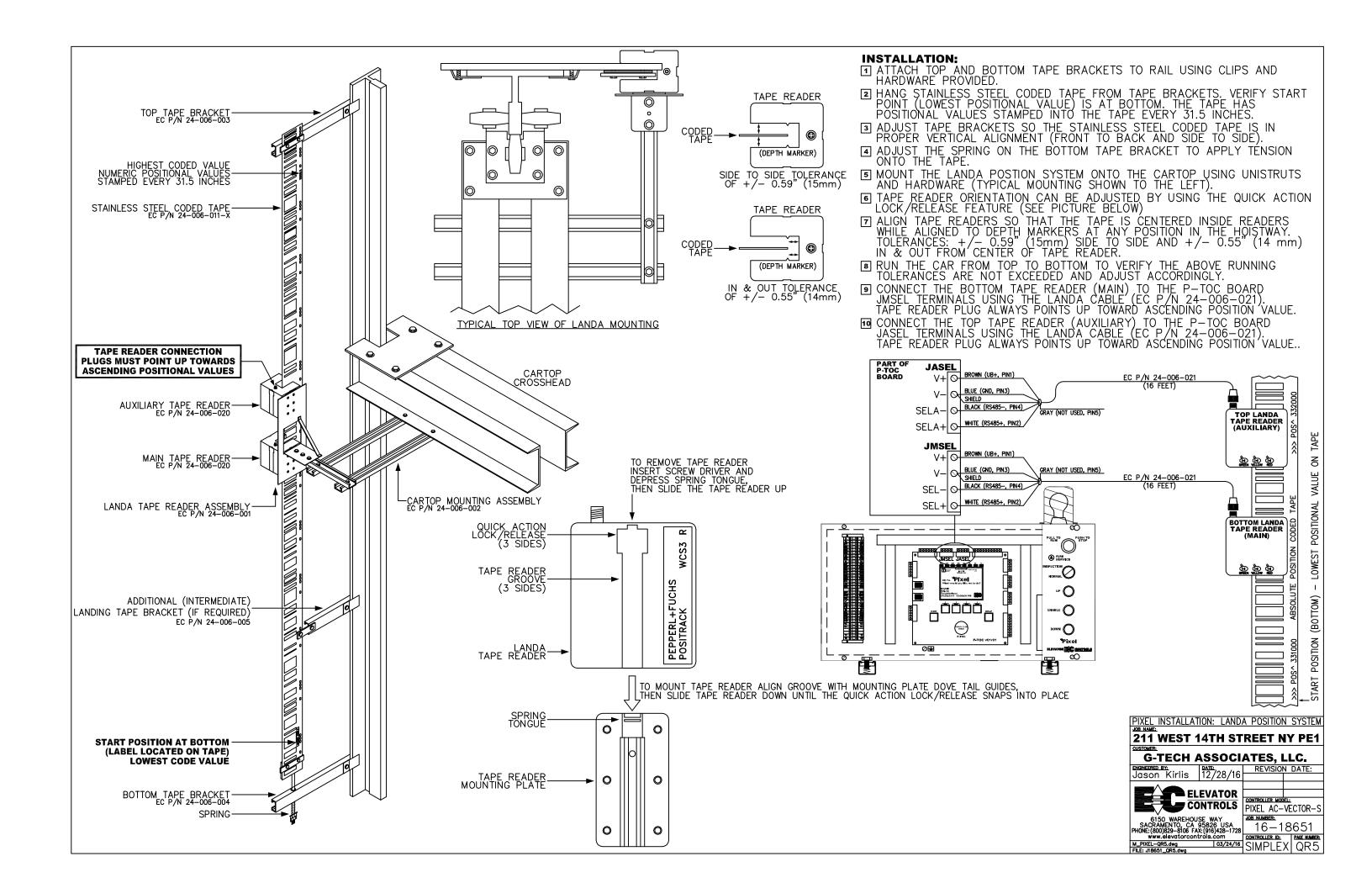
SET P-HALL BOARD DIP SWITCHES FOR THE RESPECTIVE LANDING NUMBER AND FUNCTION, USING THE BELOW CONFIGURATION TABLE.
 SET P-HALL BOARD JP1 SWITCH FOR THE RESPECTIVE FUNCTION BY SLIDING THE SWITCH INTO THE APPROPRIATE POSITION, USING THE BELOW CONFIGURATION TABLE.

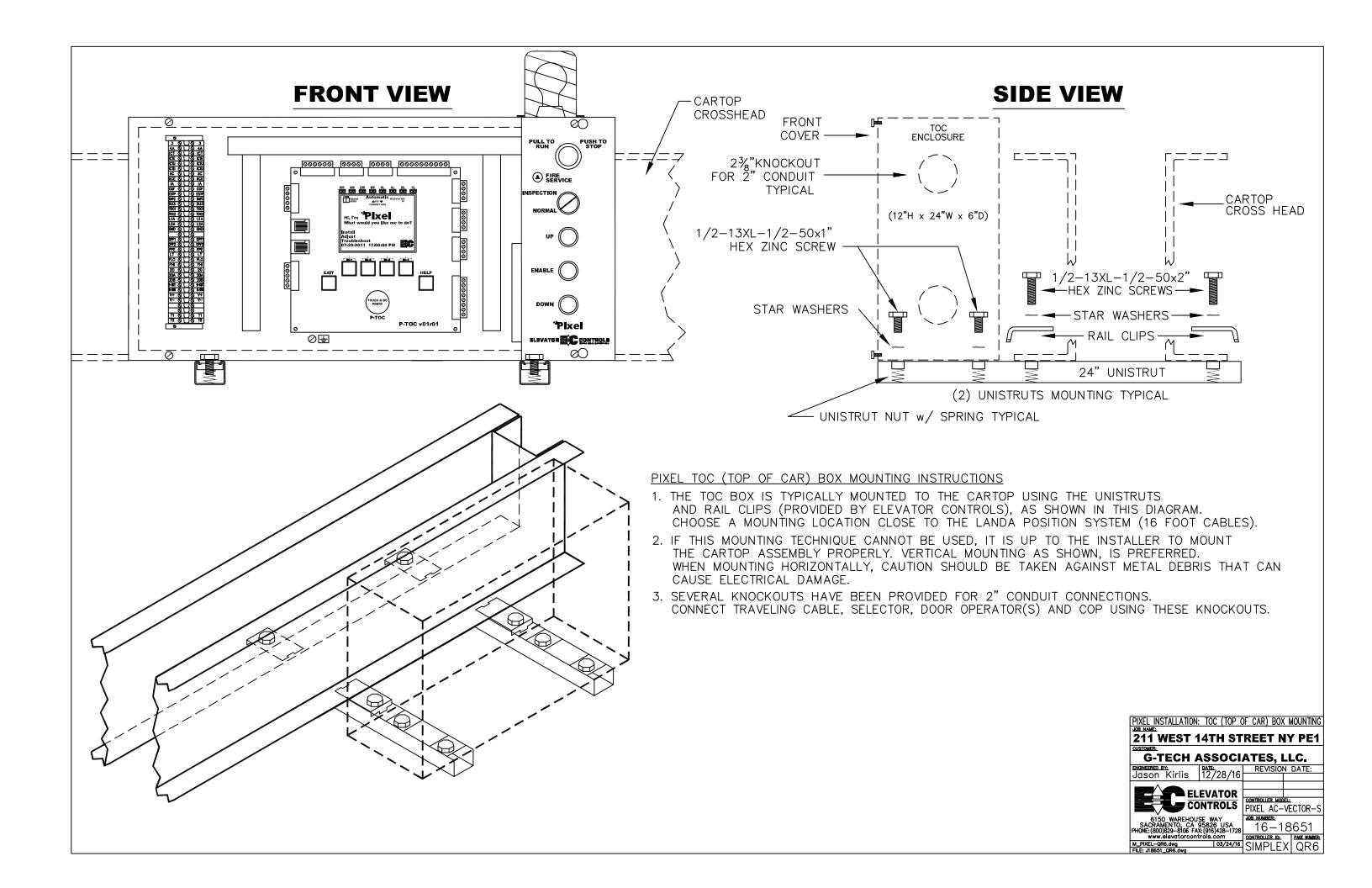
DIP SWITCHES (1) THRU (32) LANDING ADDRESS SELECTION		CHES (FR), (CTION SELEC	X) & (G) TION		DIP SWITCHES FUNCTION		
ANDING JP1 FLOOR IS DESIGNATION	REAR HALL CALL	REAR HOSPITAL CALL	REAR HALL LANTERN	LANDING NUMBER	MISCELLANEOUS FUNCTIONS	JP1 IS ON	FUNCTION SETTINGS
161 - 248628 57 × 0	© × ⊙ ON	FR X X ON	FR X X ON				











Basic Start-up Procedure L1000A CLOSED LOOP FLUX VECTOR, PIXEL AC VECTOR FOR INDUCTION MOTOR CONTROLLERS 1. Review and become familiar with the Yaskawa L1000A guick EC Field Number Parameter Name Default Range start guide, EC manuals and EC schematics Setting Setting 2. Verify all interconnections to the drive & controller are A1-01 Access Level Selection 0-2 2=Adv. Access made in accordance with the EC schematic and Yaskawa A1-02 Control Method Selection 2 0,2,3,7 3 3=Closed Loop L1000A quick start guide. 2=MOD BUS b1-01 | Speed Reference Selection 0 - 30 2 3. Verify the drive parameters marked with an " >> " are 0-3 2=MOD BUS b1-02 Up/Down Command Selection 2 correct and match the actual motor and job site data. b1-14 | Phase Order Selection _ 0 - 10 0 0=U-V-W 4. Use the modified constants menu in the drive to verify the EC parameter settings on this sheet. record any 1.50 C1-01 Acceleration Ramp 1 SEC 0.00-600.00 1.00 parameter changes in the field setting column. C1-02 Deceleration Ramp 1 SEC 0.00-600.00 1.50 0.20 5. AUTO-TUNING Induction motor (IM), is a one step process C1-03 Acceleration Ramp 2 SEC 0.00-600.00 1.50 0.00 rotational (ropes must be removed) or stationary. C1-04 Deceleration Ramp 2 SEC 0.00-600.00 1.50 0.00 a. Move one of the jumper legs from H1 to HC terminal (two C1-09 Fast Stop Ramp SEC 0.00-600.00 1.50 **0.50** legs are both installed into H1 terminal on the L1000A drive) C2-01 Jerk At Accel Start 0.00-10.00 0.50 0.00 terminals HC, H1 & H2 are now jumped together C2-02 Jerk At Accel End SEC 0.00-10.00 0.50 0.00 b. (Regenerative drive applications only) Set H1-08=F, to disable base block C2-03 | Jerk At Decel Start SEC | 0.00-10.00 | 0.50 0.00 c. if the landa positioning system is not installed, place the controller on construction mode (install menu) 0.00-10.00 C2-04 Jerk At Decel End SEC 0.50 0.00 d. select induction motor auto-tune method below: SEC 0.00-10.00 C2-05 | Jerk Below Leveling Speed 0.50 0.00 T1-01 = 0 (Rotational, ropes must be removed—most accurate) C5-01 Spd Cntrl Lp Proportional Gain 1 0.00-300.00 40.00 15.00 For rotational auto-tune set H2-01 = 6 (Drive Ready) 0.50 0.50 C5-02 Spd Cntrl Lp Integral Time 1 SEC |0.000-10.000| This allows brake to lift during auto-tune process. T1-01 = 4 (Stationary, motor slip & no load current is available e. Enter the required auto-tuning data for the motor SEC 0.000-0.500 0.004 **0.100** C5-06 | Spd Cntrl Lp Primary Delay Constant (refer to E2-11, E1-05, E2-01, E1-06, E2-04, F1-01, E2-03 & E2-02 for data) press the up key until "tuning ready?" is displayed on the keypad. f. Using controller insp., press both the up & enable buttons continue to press both buttons until auto-tune is complete g. Press the run key and the keypad will display "tune C5-19 Spd Cntrl Lp Proportional Gain During Position Lock 0.00-300.00 40.00 **15.00** proceeding" until process is complete = "tune successful" SEC 0.000-10.000 C5-20 Spd Cntrl Lp Integral Time During Position Lock 0.10 0.10 The auto-tuning process takes approximately 1-2 minutes. В C6-03 | Carrier Frequency kHz 1.0-15.0 8 h. Remove jumper from terminal HC & restore H2-01=0, C6-06 PWM Method 0=2/3-PH Conversion 0-2 0 0 if a rotational tune was completed. (Regenerative drive applications only) Restore H1-08=9. 230 208 >> E1-01 |Input Voltage Setting ٧ 155-255 >> E1-04 | Maximum Output Frequency Hz 4.0-120.0 60 55 6. Verify motor rotation direction using controller ≫ E1-05 Maximum Voltage (Motor) ٧ 0.0-255 200 208 inspection verify up command causes the elevator to move in the upward direction, if the motor rotates in ➤ E1-06 Base Frequency (Motor) 60 55 0.0 - 120.0Hz the opposite direction, change b1-14 from 0 to 1. This ➤ E2-01 Motor Rated Current 10-200% Rating В 77.9 Rating= B switches the phase order to U-W-V. ➤ E2-02 Motor Rated Slip 0.00-20.00 В 0.47 Hz Encoder setup: Using controller inspection check parameter >> E2-03 Motor No-load Current 0-(E2-01) В 35.1 U1-05 (Speed Feedback). Verify the value is positive in the up and negative in the down direction. >>> E2-04 Number Of Motor Poles 2-48 #POLES 4 8 Change F1-05 from 0 to 1 if the values are reversed. E2-05 Motor Line-to-line Resistance 0.000-65.000 В Α Ω E2-06 | Motor Leakage Inductance % 0.0 - 40.0В Α E2-07 | Motor Iron-core Sat Coefficient 1 0.00 - 0.500.50 Α **Basic Adjustment Procedure** E2-08 Motor Iron-core Sat Coefficient 2 (E2-07)-0.75 0.75 Α 1. Contract speed, adjust E1-04 "maximum output frequency" E2-09 Motor Mechanical Loss % 0.0-10.0 0.0 0.0 up or down to obtain contract speed. E2-11 Motor Rated Power 0.00-650.00 В 18.65 $kW = HP \times 0.746$ Note: If contract speed can't be reached after setting F1-01 Encoder 1 Resolution PPR 1-60000 1024 1024 E1-04 = E1-06, contact elevator controls. F1-02 Operation Sel. At PG Open Circuit (PGO) 0=Ramp To Stop 0 - 30 2. Contract speed—response and control: if slow response during acceleration, increase C5-01 then shorten F1-03 Operation Selection At Overspeed 0-3 0 0=Ramp To Stop C5-02. If vibration occurs, decrease C5-01 then lengthen C5-02. 0-3 0=Ramp To Stop F1-04 Operation Selection At Deviation 3 0 3. Starting-response and rollback control: F1-05 Encoder 1 Rotation Direction Selection 0 0.1 0 If rollback occurs after the brake is lifted, increase C5-19 then F1-10 Excessive Speed Deviation Detection Level % 0-50 10 25 shorten C5-20. If vibration occurs, decrease C5-19 then lengthen C5-20. If rollback persists, increase S3-02 in small adjustments. If required increase S3-01 in small adjustments. H1-03 Terminal S3 Function Selection 20 24 20=Ext Flt Ramp To Stop 4. Stopping-response and control: H1-04 Terminal S4 Function Selection _ 14 F F=Not Used Multi-

H1-05 | Terminal S5 Function Selection

H1-08 | Terminal S8 Function Selection

H3-02 Torque Compensation

Terminal S6 Function Selection

Terminal S7 Function Selection

H2-01 Terminal M1-M2 Function Selection (relay)

H2-02 Terminal M3-M4 Function Selection (relay)

H2-03 Terminal M5-M6 Function Selection (relay)

H1-06

H1-07

function

Digital

Inputs

& Digital

Outputs

0,2,3,14,1F

3

4

5

F

50

51

6

0

F

F

15

F

50

F

F

0

F=Not Used

F=Not Used

F=Not Used

F=Not Used

F=Not Used

15=Fast Stop N.O.

50=Brake Control

14=Pre-torque

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	Number	Parameter Name	Unit	Range	Default	EC Setting	Field Setting	Notes
ſ	H5-02	Communication Speed Selection	-	0-8	3	8		8=115200bps
Γ	H5-11	Communications Enter Function Sel.	_	0,1	0	1		1=Enter Not Necessary
	L5-01	Number Of Auto Reset Attempts	-	0-10	0	2		
	L5-02	Fault Output Operation During Auto Reset	-	0,1	0	1		1=Active
Γ	L6-01	Torque Detection Selection 1	-	0-8	0	2		2=oL3 Active During Run
	L6-02	Torque Detection Level 1	%	0-300	150	200		
	L7-01	Forward Torque Limit	%	0-300	200	300		
Γ	L7-02	Reverse Torque Limit	%	0-300	200	300		
ſ	L7-03	Forward Regenerative Torque Limit	%	0-300	200	300		
	L7-04	Reverse Regenerative Torque Limit	%	0-300	200	300		
ſ	L8-05	Input Phase Loss Protection Selection	-	0-3	1	0		0=Disabled
Ī	L8-55	Internal Braking Transistor Protection	_	0,1	В	0		0=Disabled
Ī		·			_			
Ī	o1-03	Digital Operator Display Unit Selection	-	0-6	1	1		1=0.01%
Ī		V/f Pattern Setting Units	_	0,1	0	0		0=Hz, C.L. Only
Ī		Length Units	_	0,1	0	1		1=Inches
>>		Traction Sheave Diameter	INCH	3.70-78.00	15.70	25.59		
»		Roping Ratio	_	1-4	2	1		1=1:1
>>		Mechanical Gear Ratio	_	0.10-50.00	14.00	15.67		
İ	P1-01	_	_	_	_	AC		
Ī	P1-02	_	_	_	_	26		
Ī	P1-03	_	_	_	_	45		
Ī	P1-04	_	_	-	_	4B		
İ		Zero Speed Level At Stop	%	0.000-9.999	0.200	0.200		
Ī		Position Lock Time At Start	SEC	0.00-10.00	0.40	0.40		
Ī		Position Lock Time At Stop	SEC	0.00-10.00	0.60	1.0		
İ		Brake Release Delay Time	SEC	0.00-10.00	0.20	0.00		
ı		Brake Close Delay Time	SEC	0.00-(S1-05)	0.10	0.10		
t		Run Command Delay Time	SEC	0.00-1.00	0.10	0.10		
Ī		Position Lock Gain At Start 1	_	0-100	5	5		
İ		Position Lock Gain At Start 2 (anti-rollback)	_	0.00-100.00		1		
ı		Position Lock Gain At Stop	_	0-100	5	5		
Ī		Starting Torque Compensation Increase Time	mSEC	0-5000	500	200		
Ī		Torque Compensation Fade Out Speed	%	0.0-100%	0.0	1		
Ī		Torque Limit Reduction Time	mSEC	0-10000	100	250		
t		Torque Compensation Value With Load Condition 1	%	-100%-100%	-50	-100		
t		Torque Compensation Value With Load Condition 2	%	-100%-100%		100		
t	S3-29	Analog Input From Load Cell With Load Condition 1	%	-100%-100%	0	-100		
t		• 1						
t								
t								
ţ								
`								

*** Pixel Parameters *** Speed Profile Pattern Delay (ms) 400ms YES Ramp To Stop Motor/Brake Timers Brake Pick Delay (s) 0.2s Brake Drop Delay (s) 0.2s2.0s (Zero Speed Hold Delay (s)

Parameter Constrain Settings

Pattern Delay > = S1-04Zero Speed Hold > S1-05 + S3-16S1-04 > S3-10, and S1-05 > Brake Drop DelayZero Speed Hold > Brake Drop Delay



Saving And Uploading Parameters

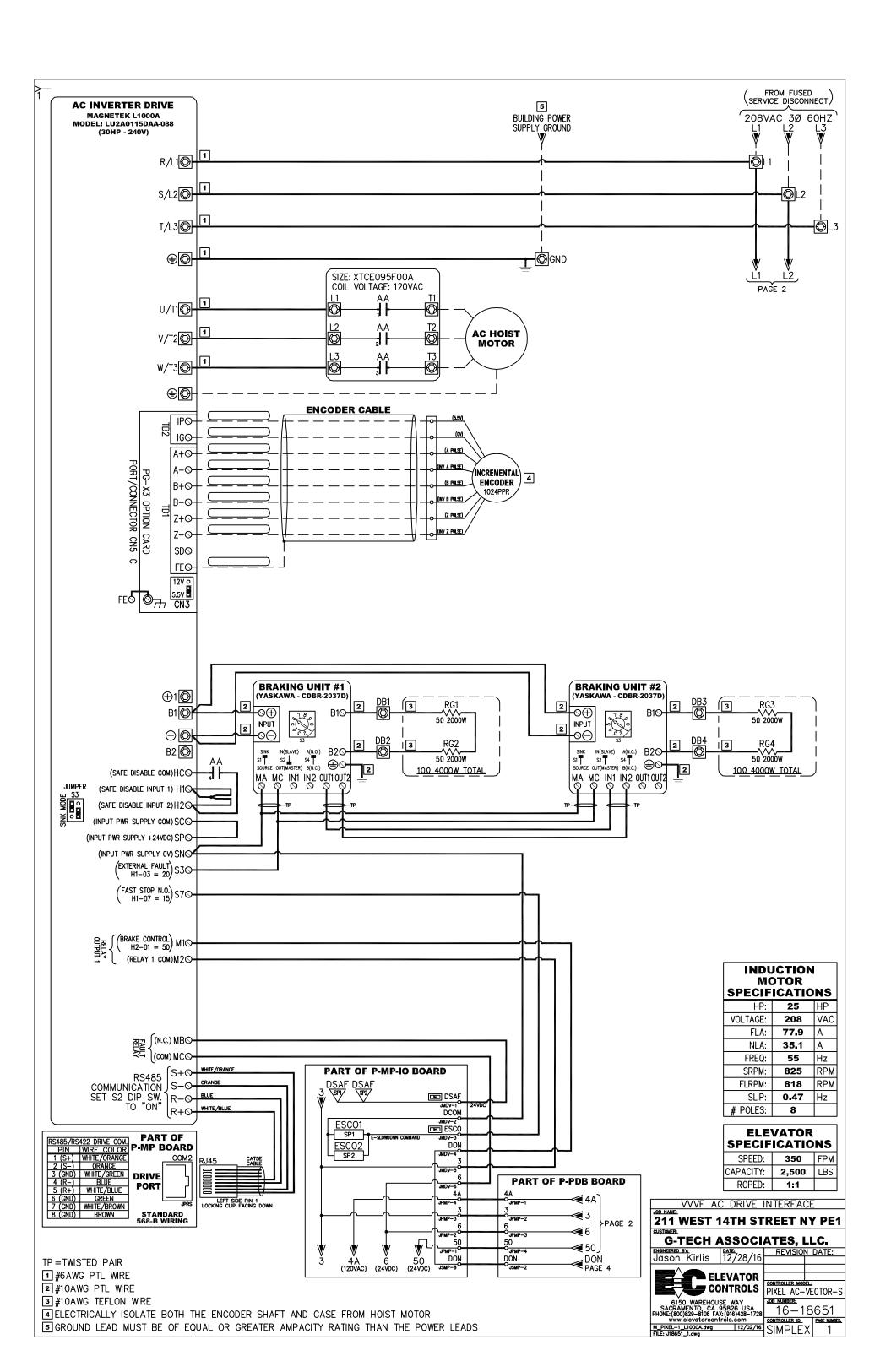
If stopping with poor accuracy, check analog pattern, jerk

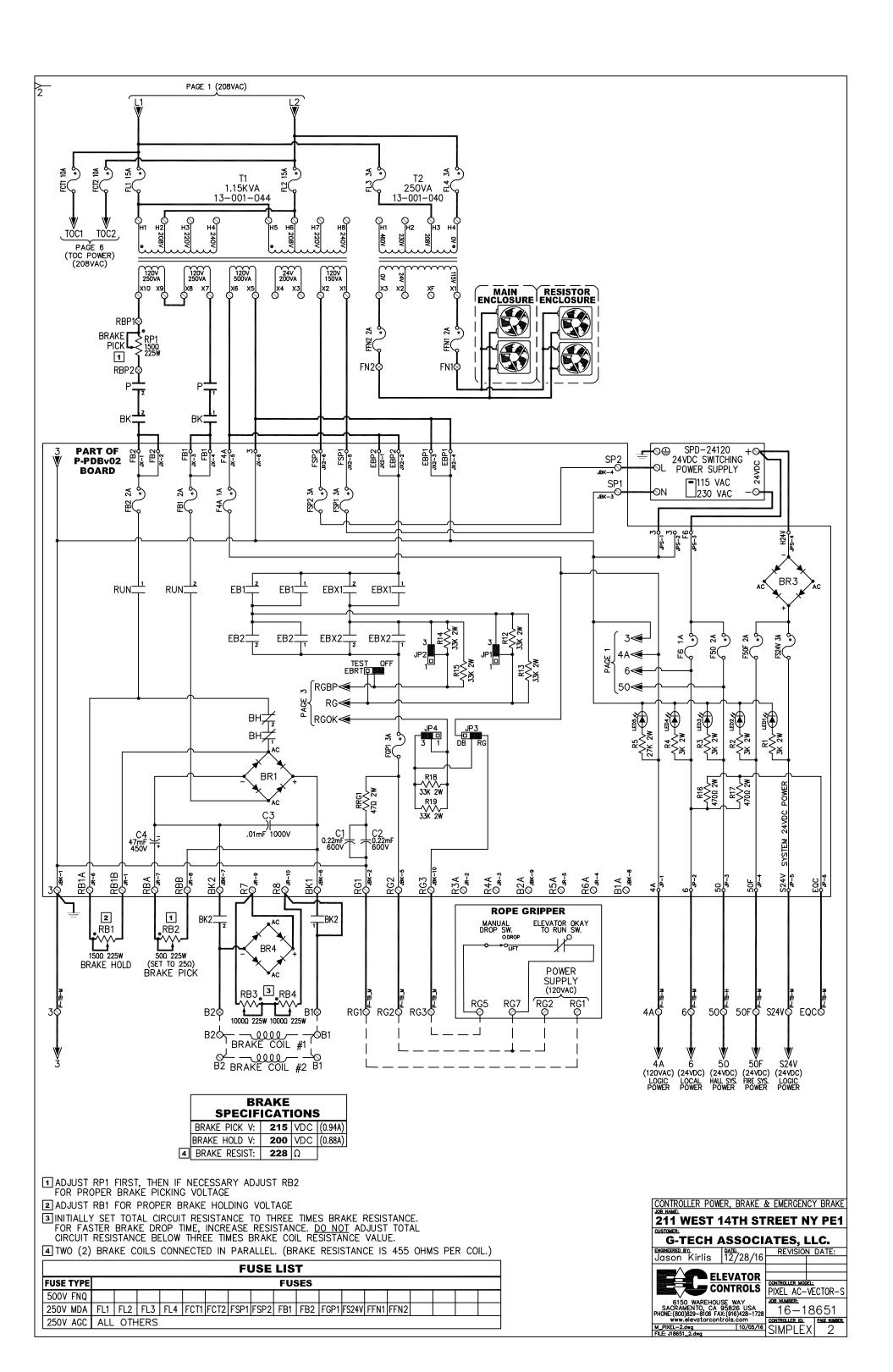
if additional brake engagement time is required.

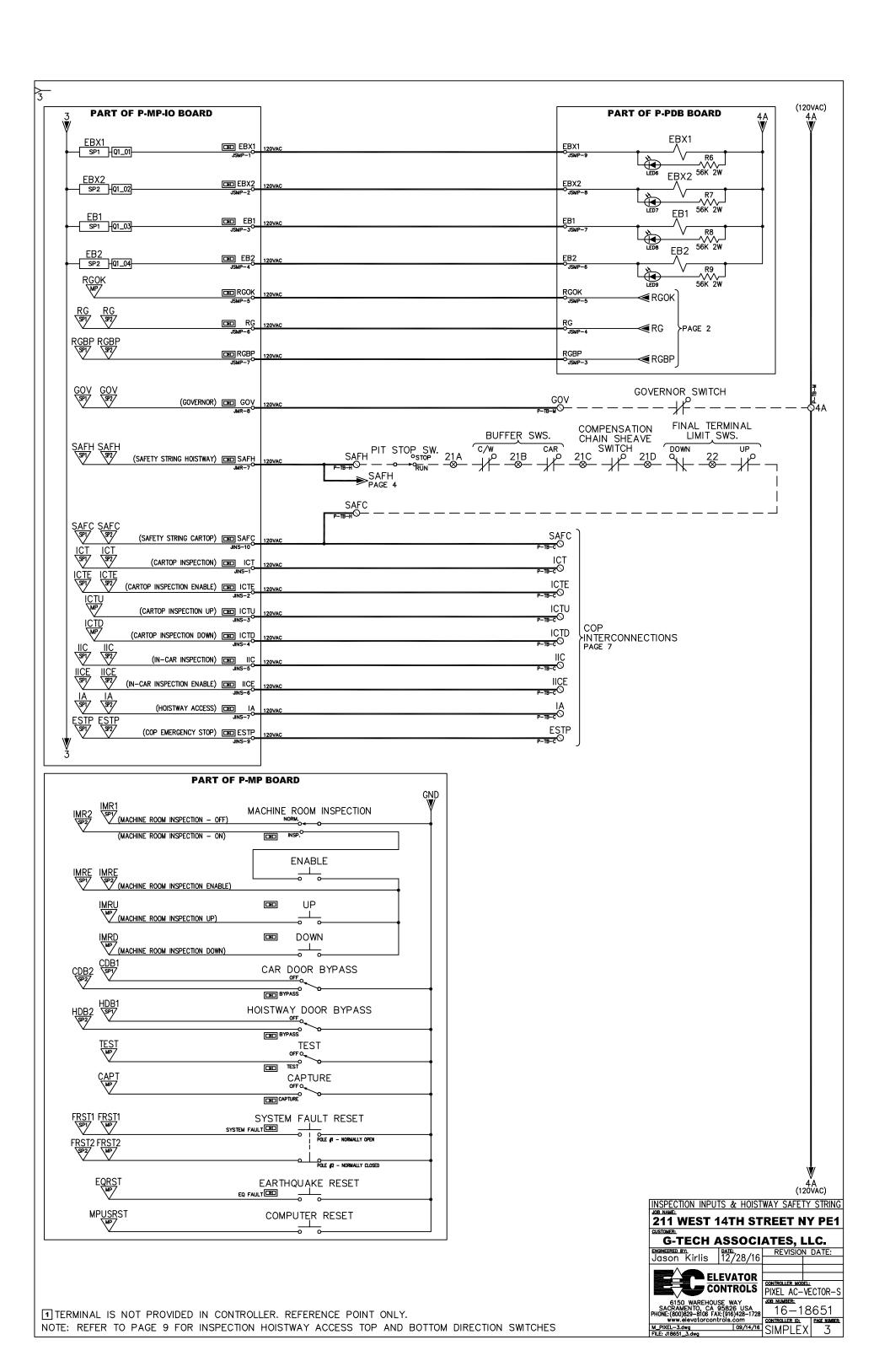
and deceleration rates. Increase S3-03 in small adjustments. If vibration occurs, decrease S3-03. Increase S1-05.

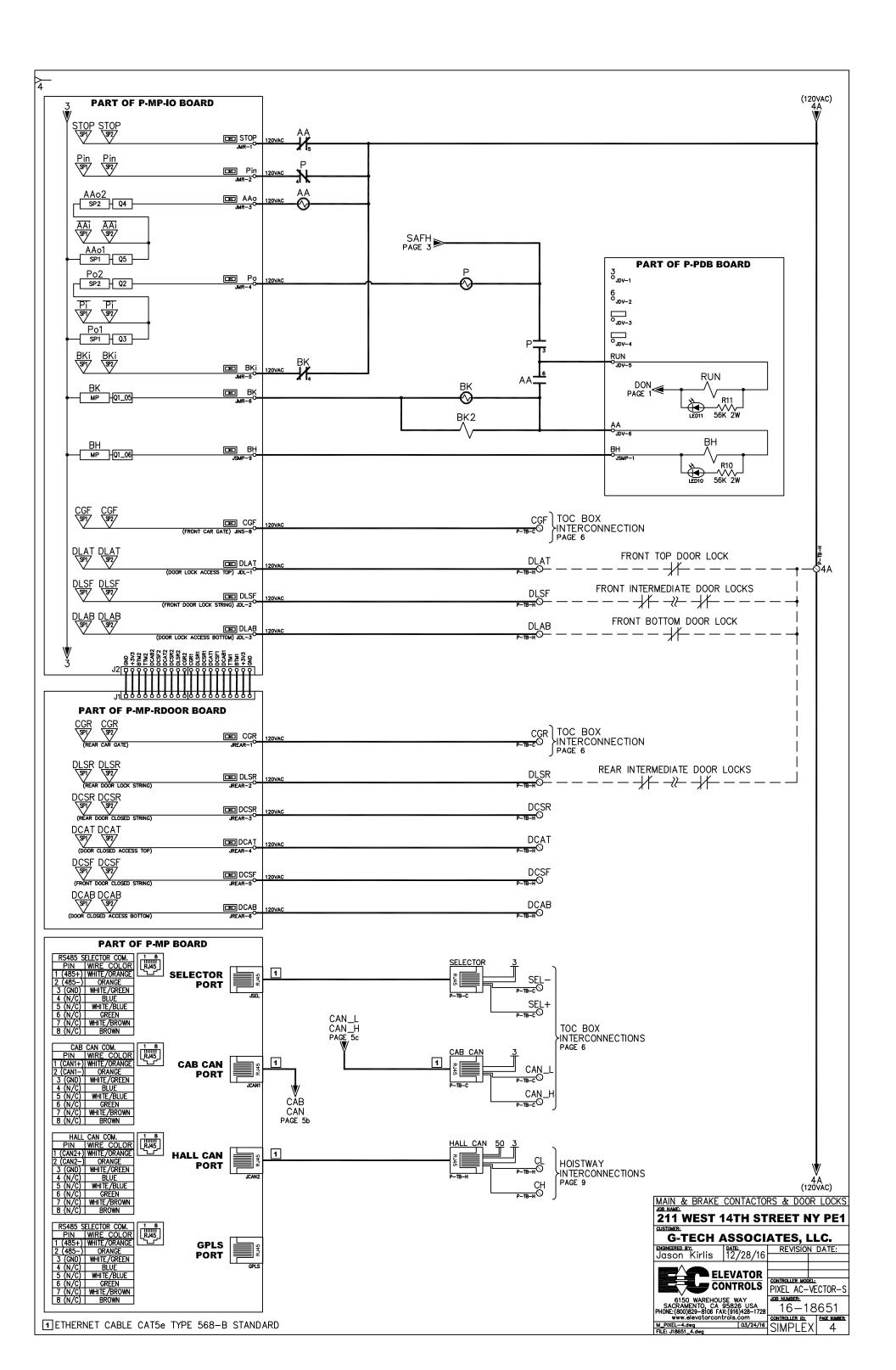
After completely setting up the drive parameters, save the values as user—set defaults by setting 02-03=1 and pressing the enter key. The display will return to 0. To restore values saved in user-set defaults (02-03), set A1-03 = 1110 (uploads only the parameters saved in 02-03)

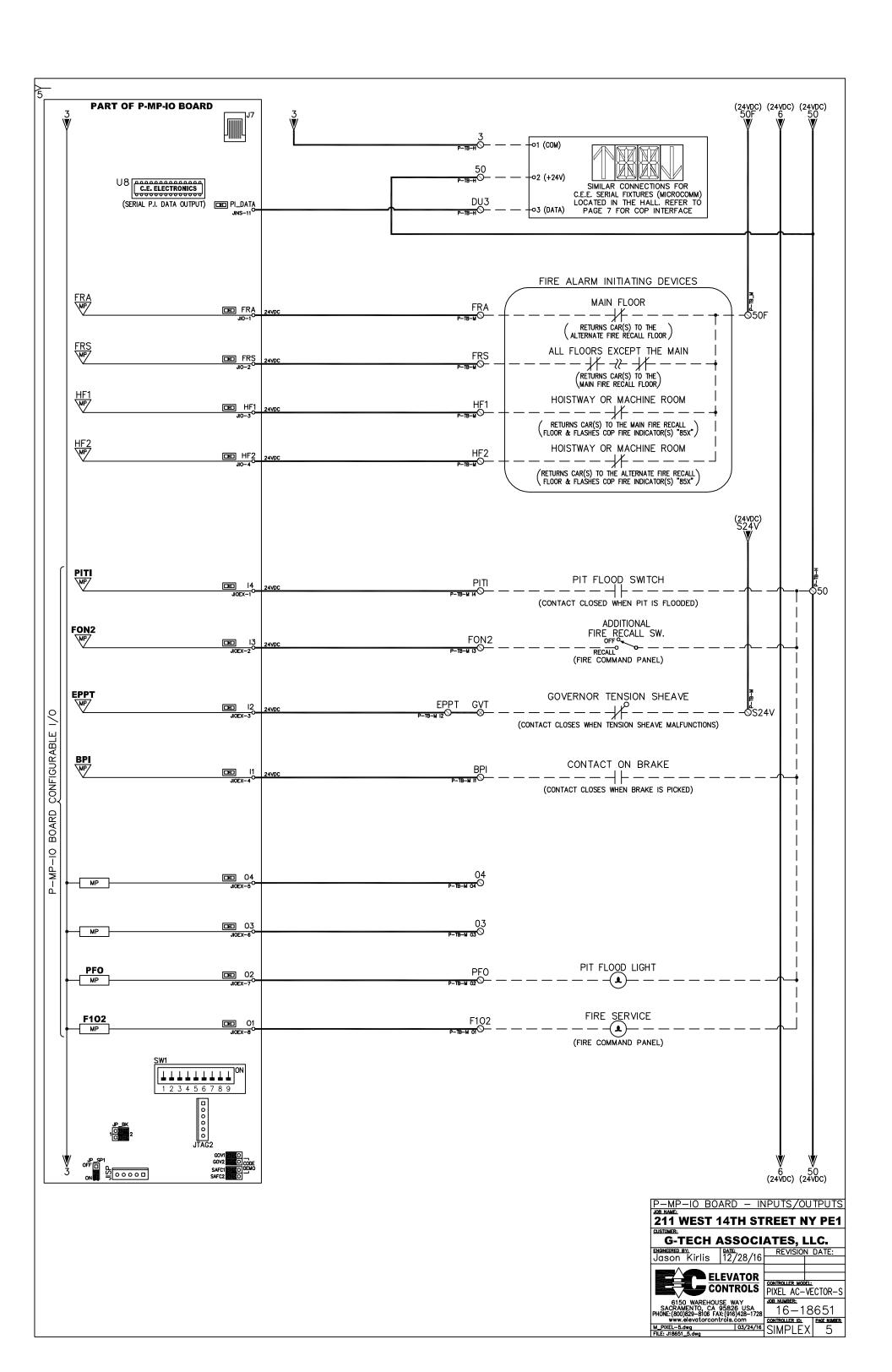
A Parameter Is Modified During Auto-tuning Process **B** o2−04 (Drive Model Selection) Dependent Parameters

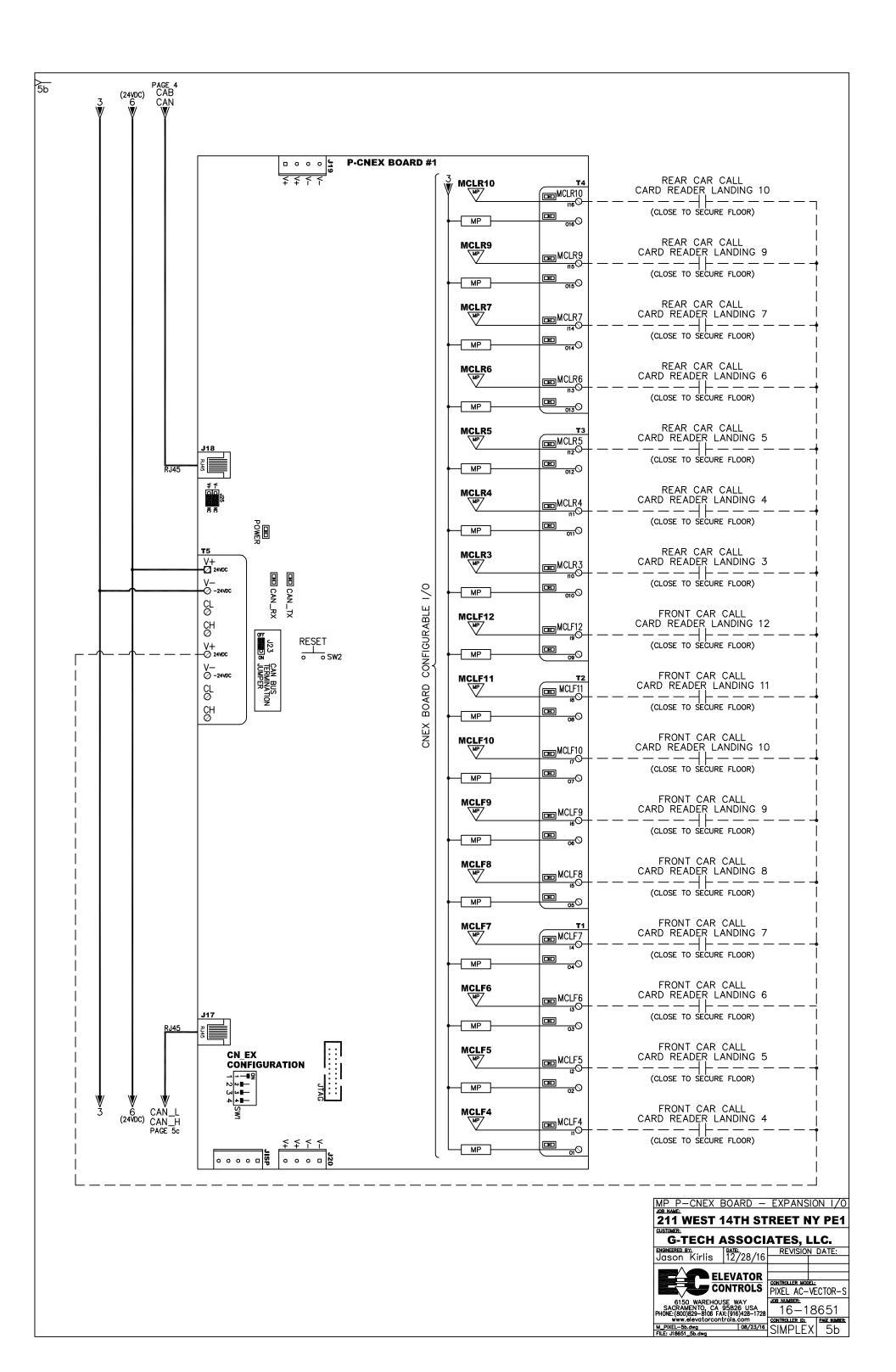


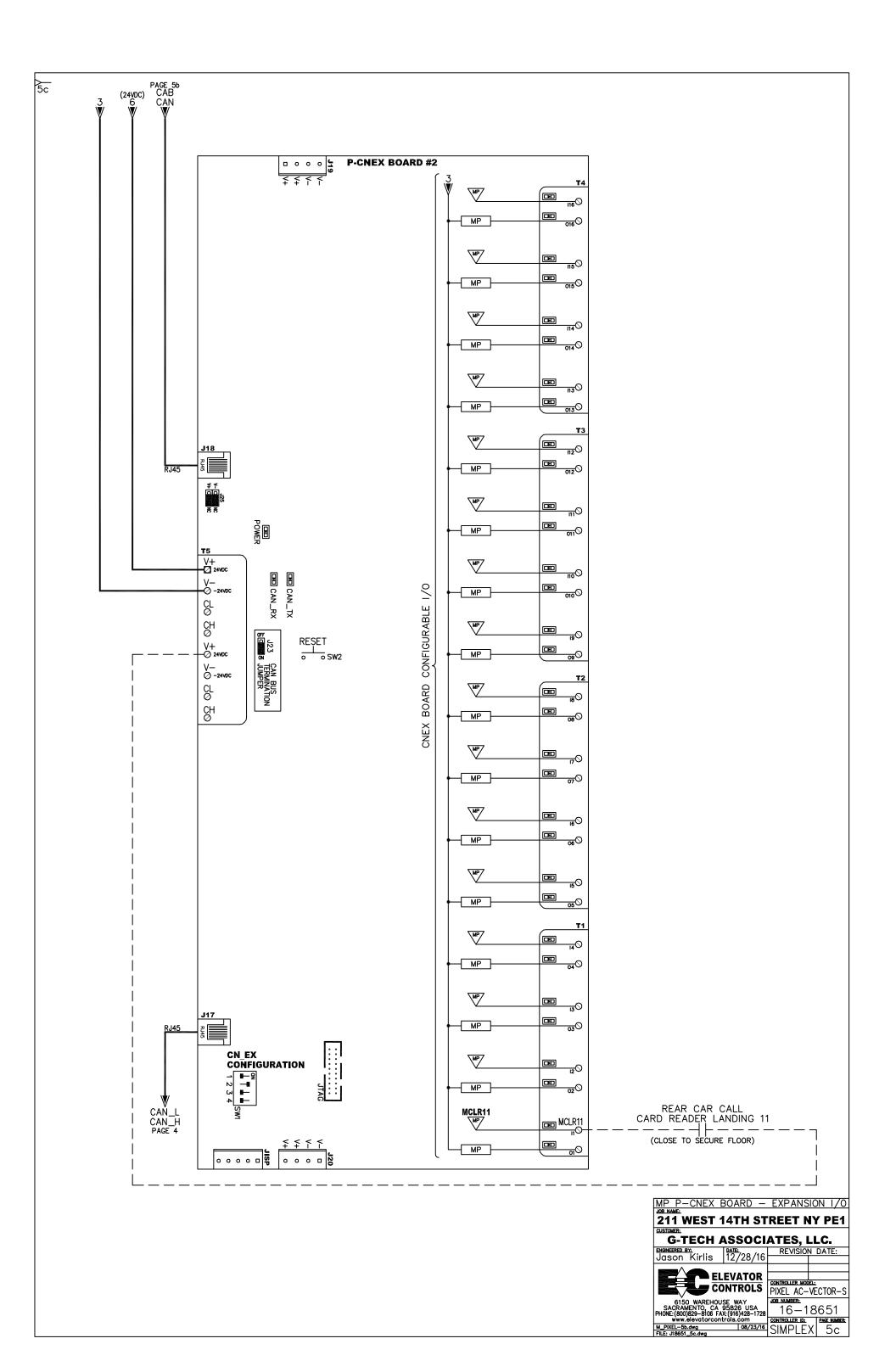


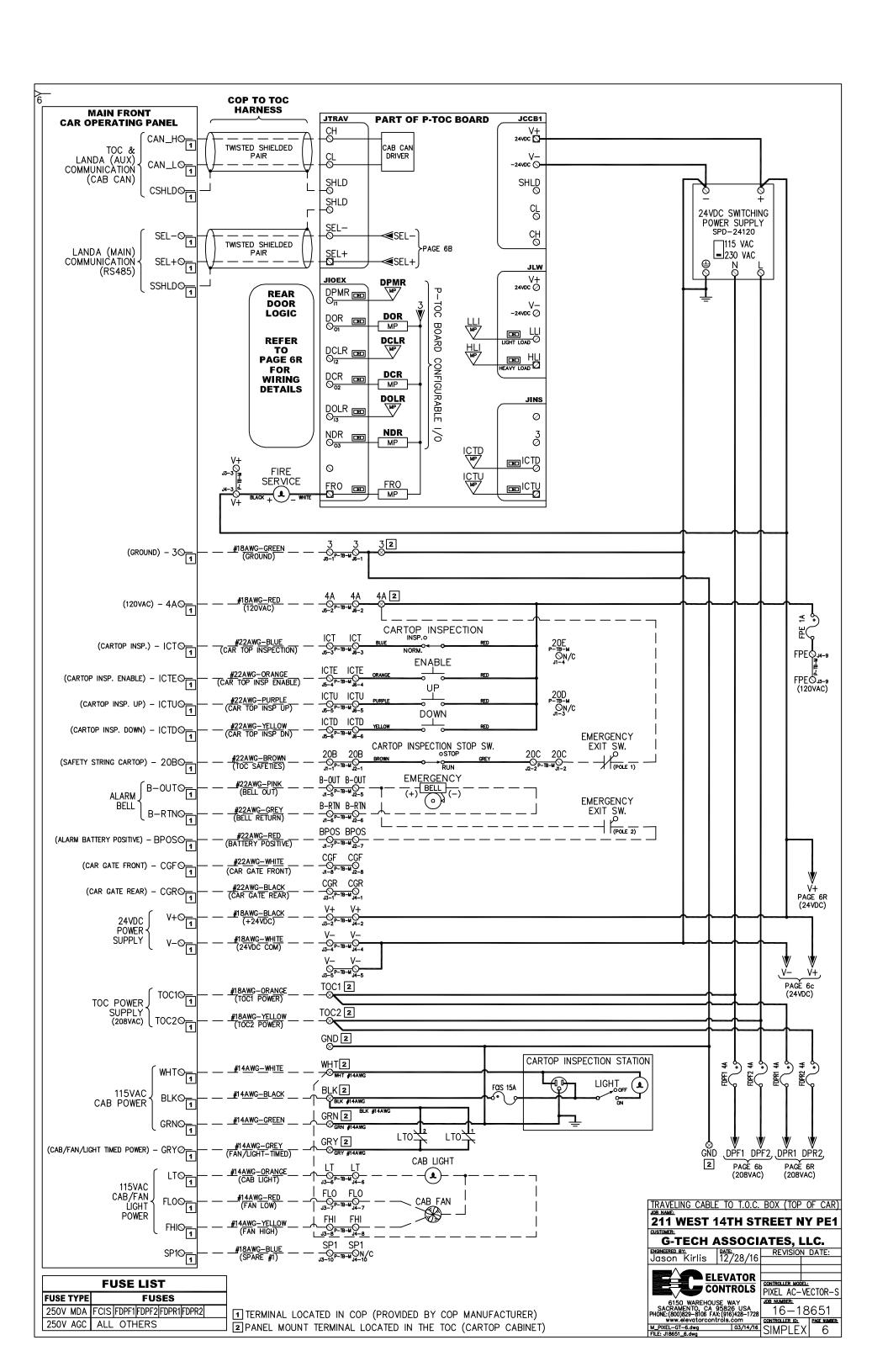


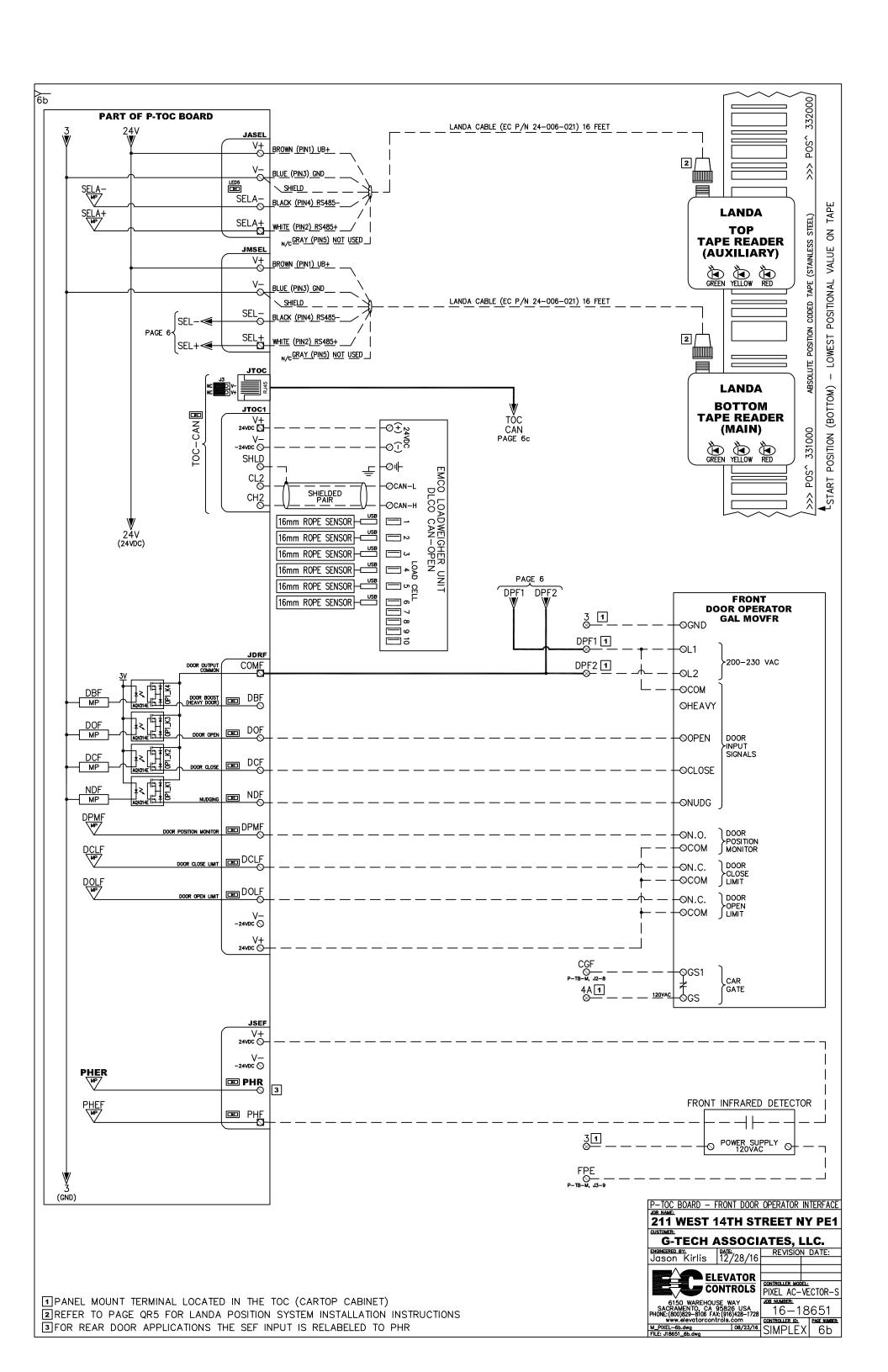


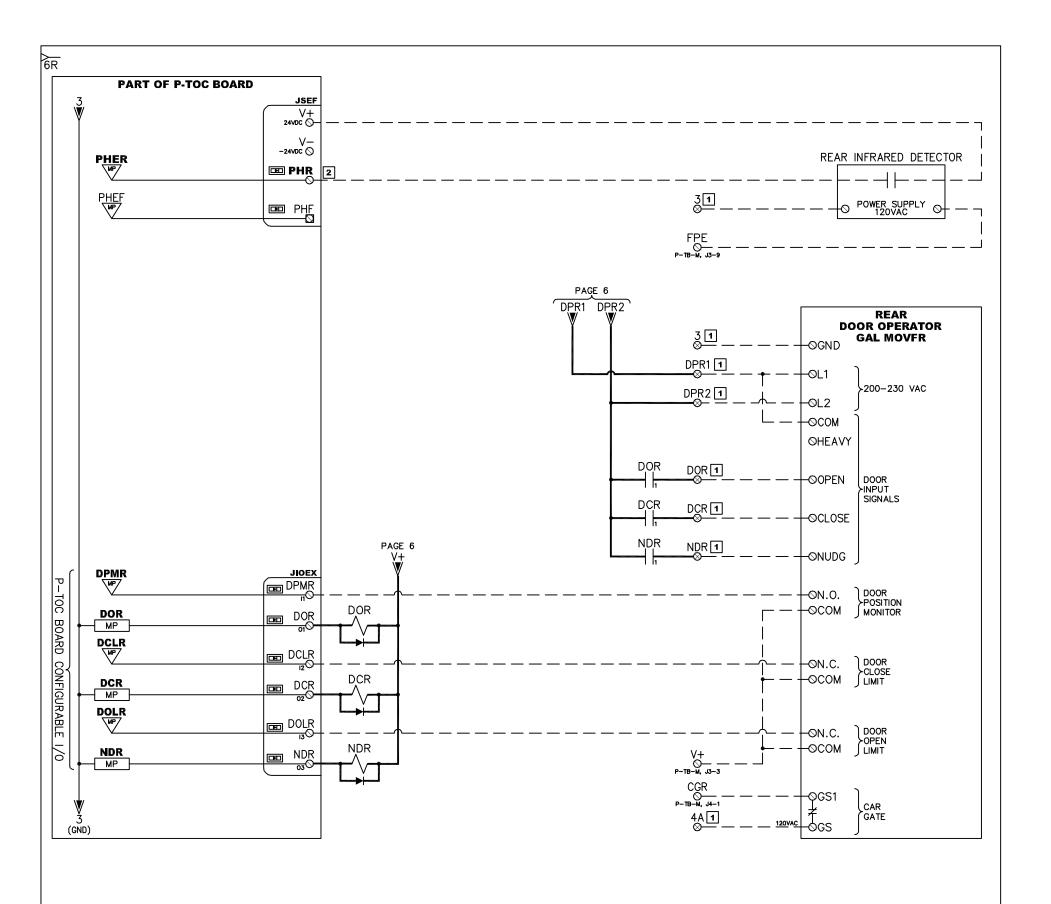




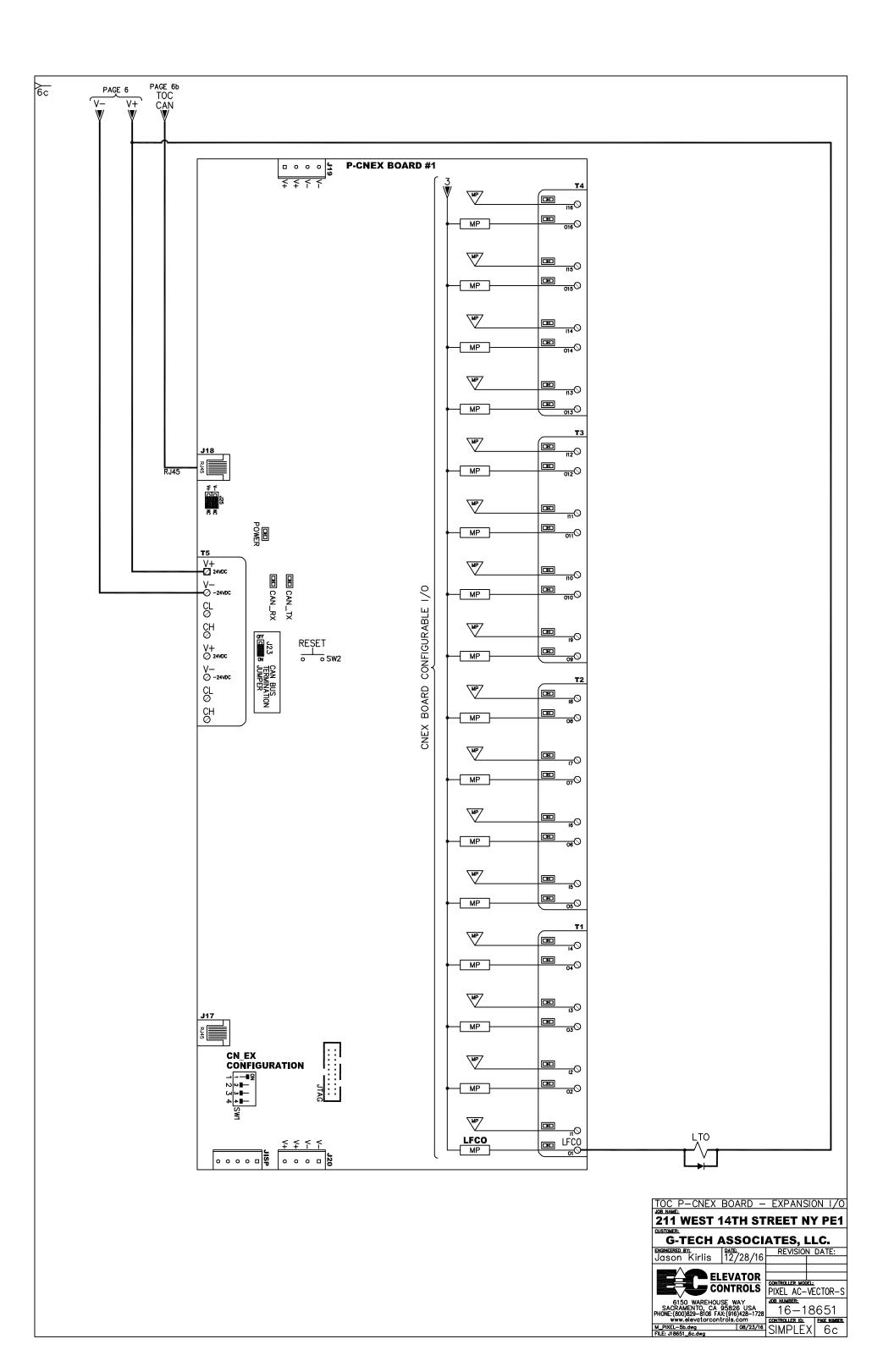


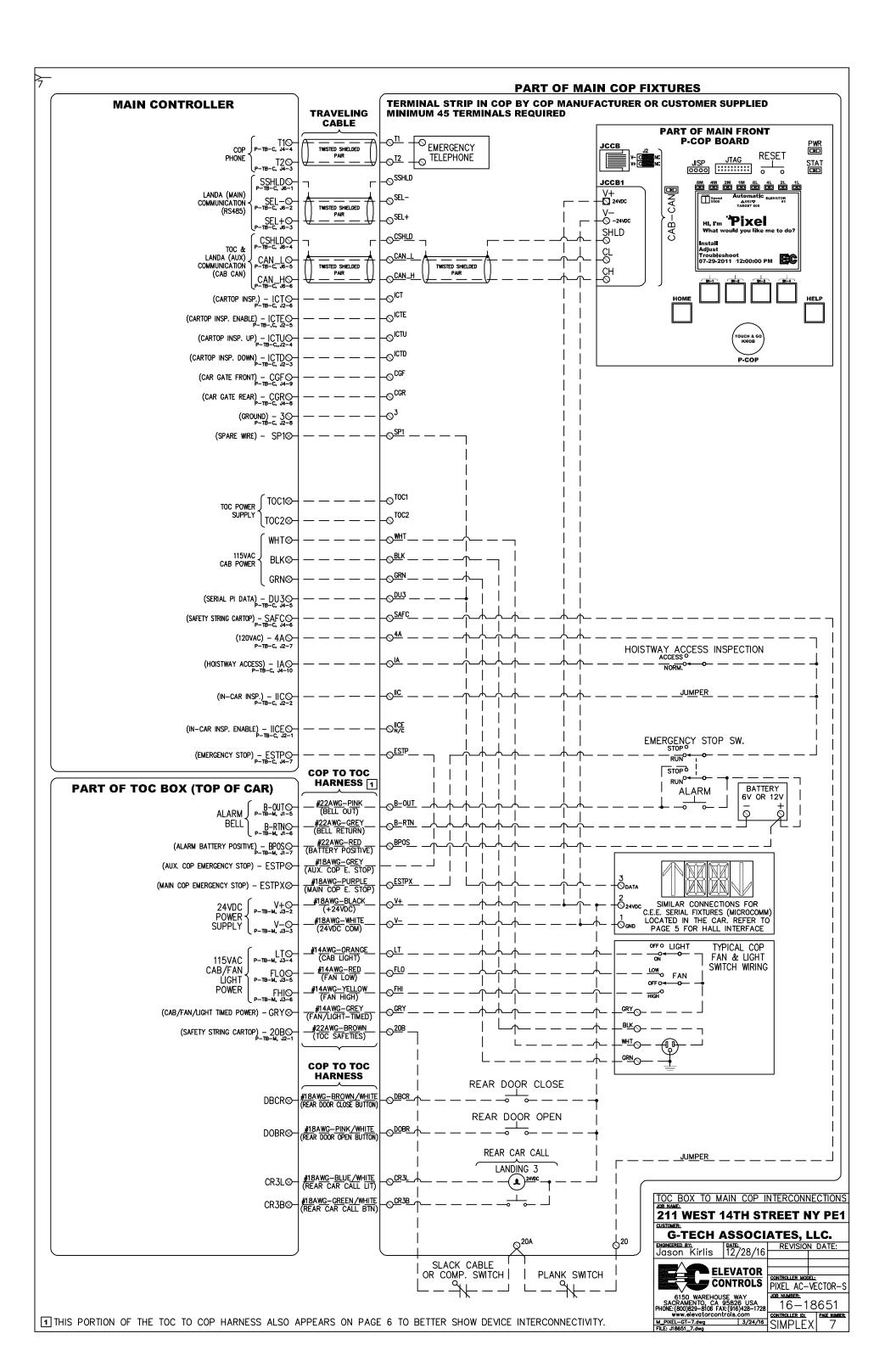


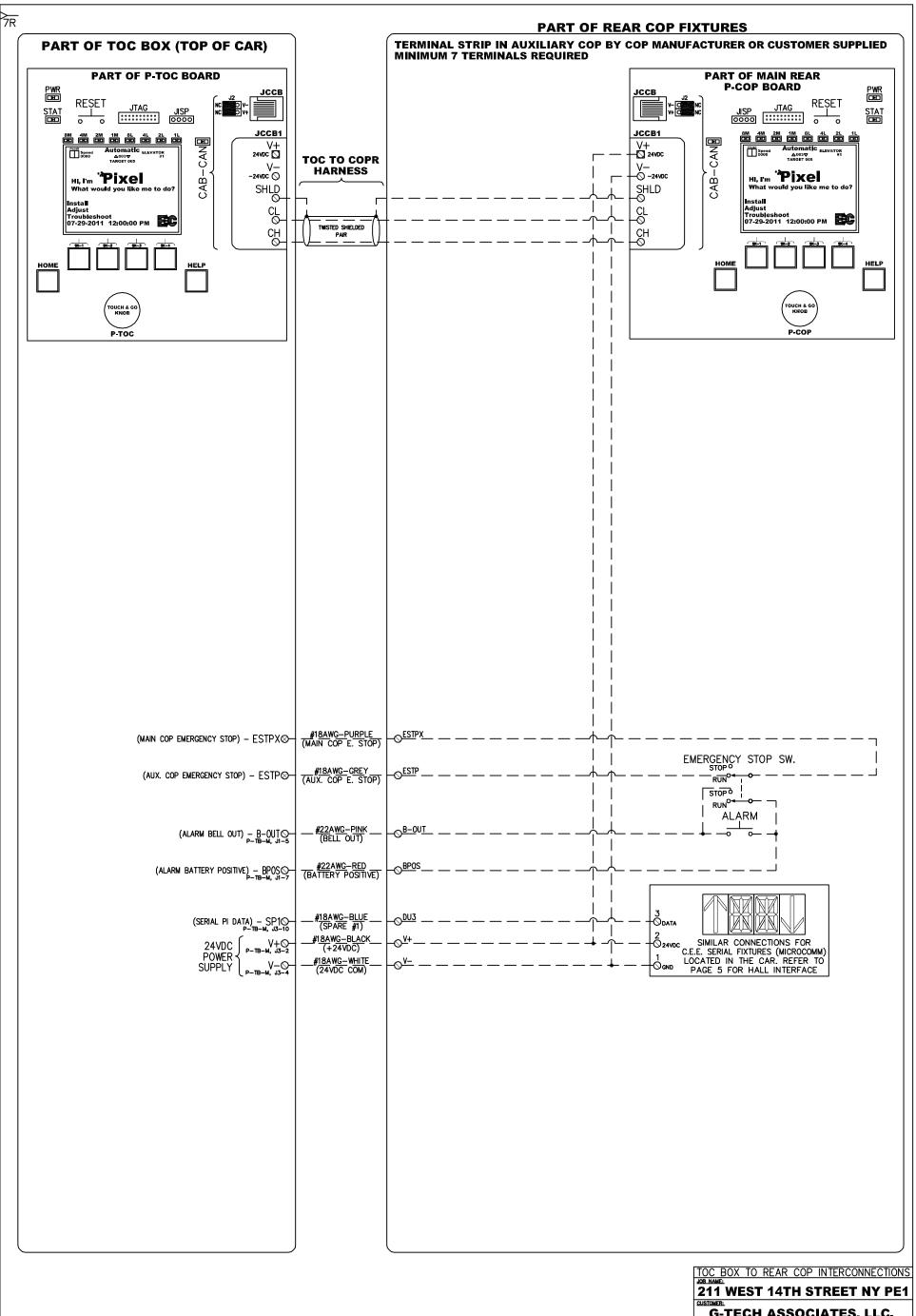




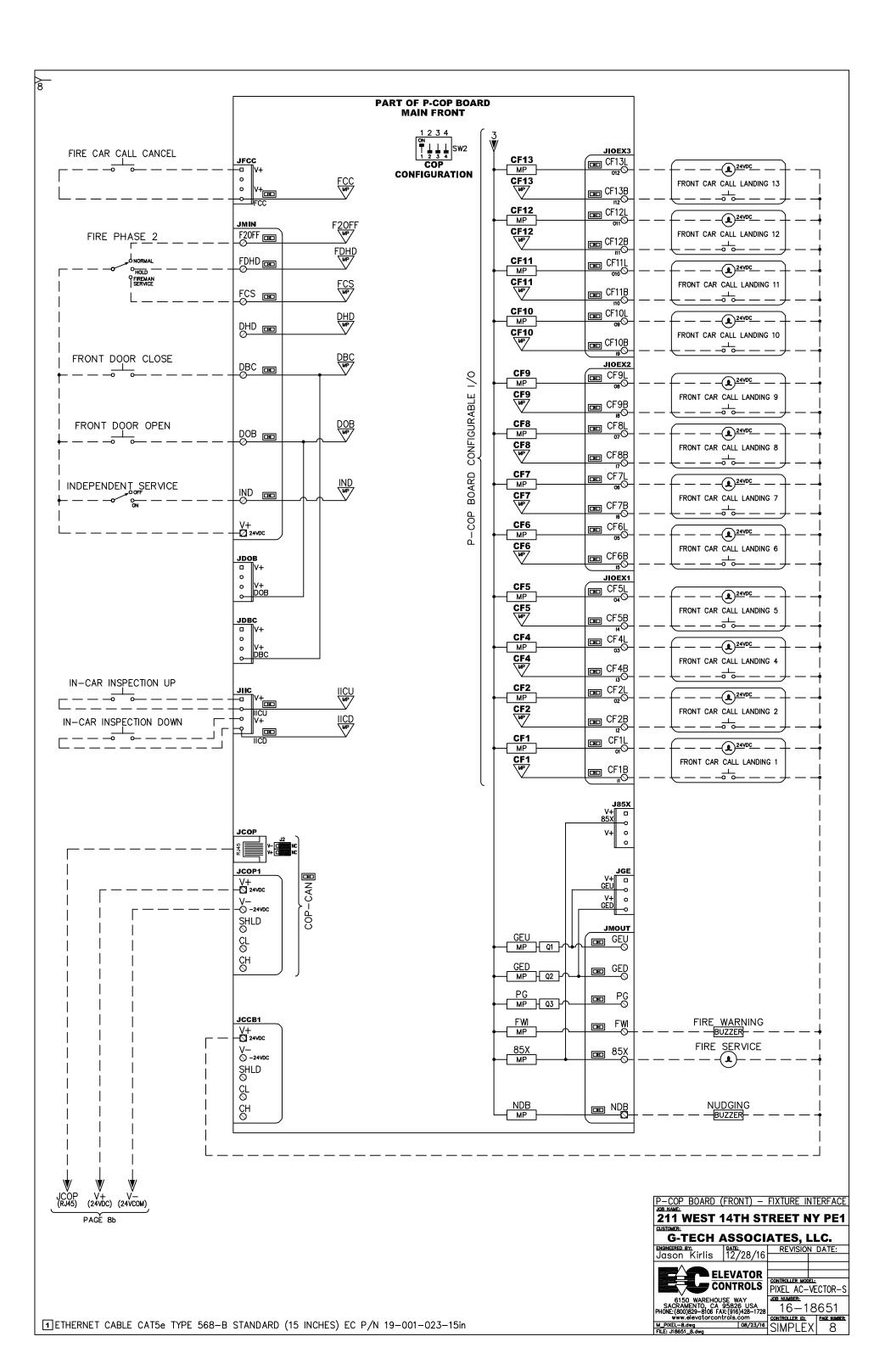


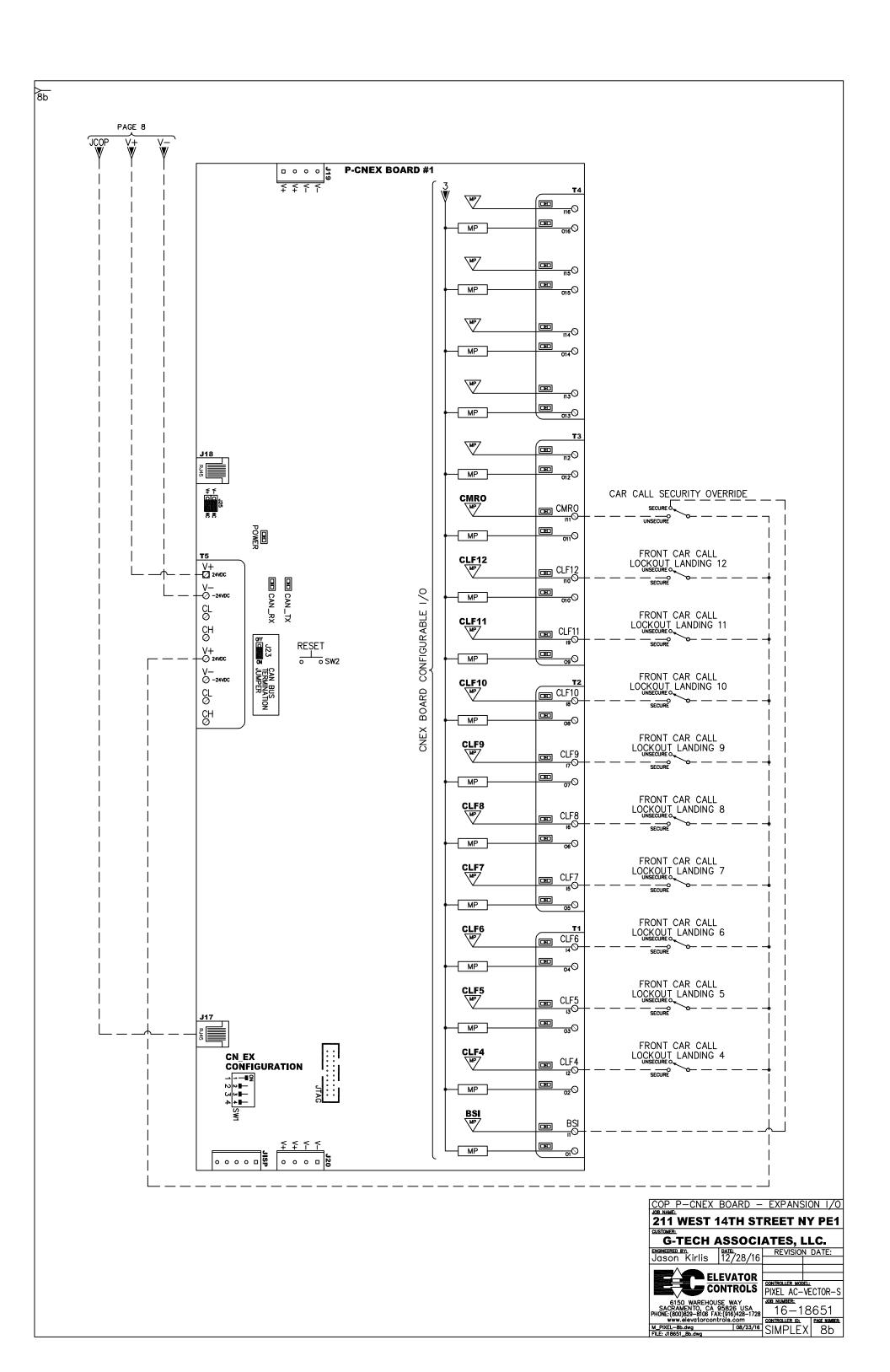


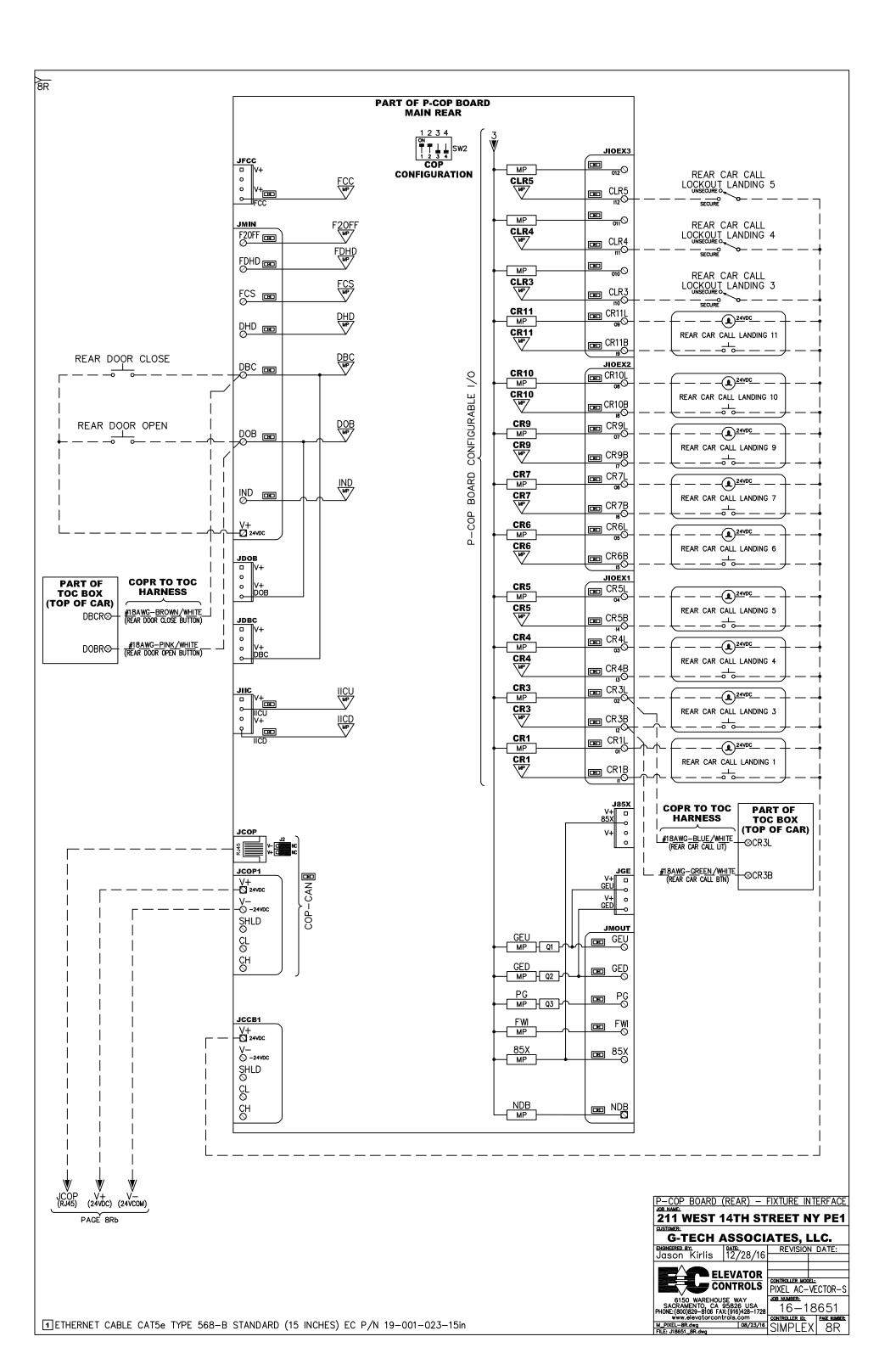


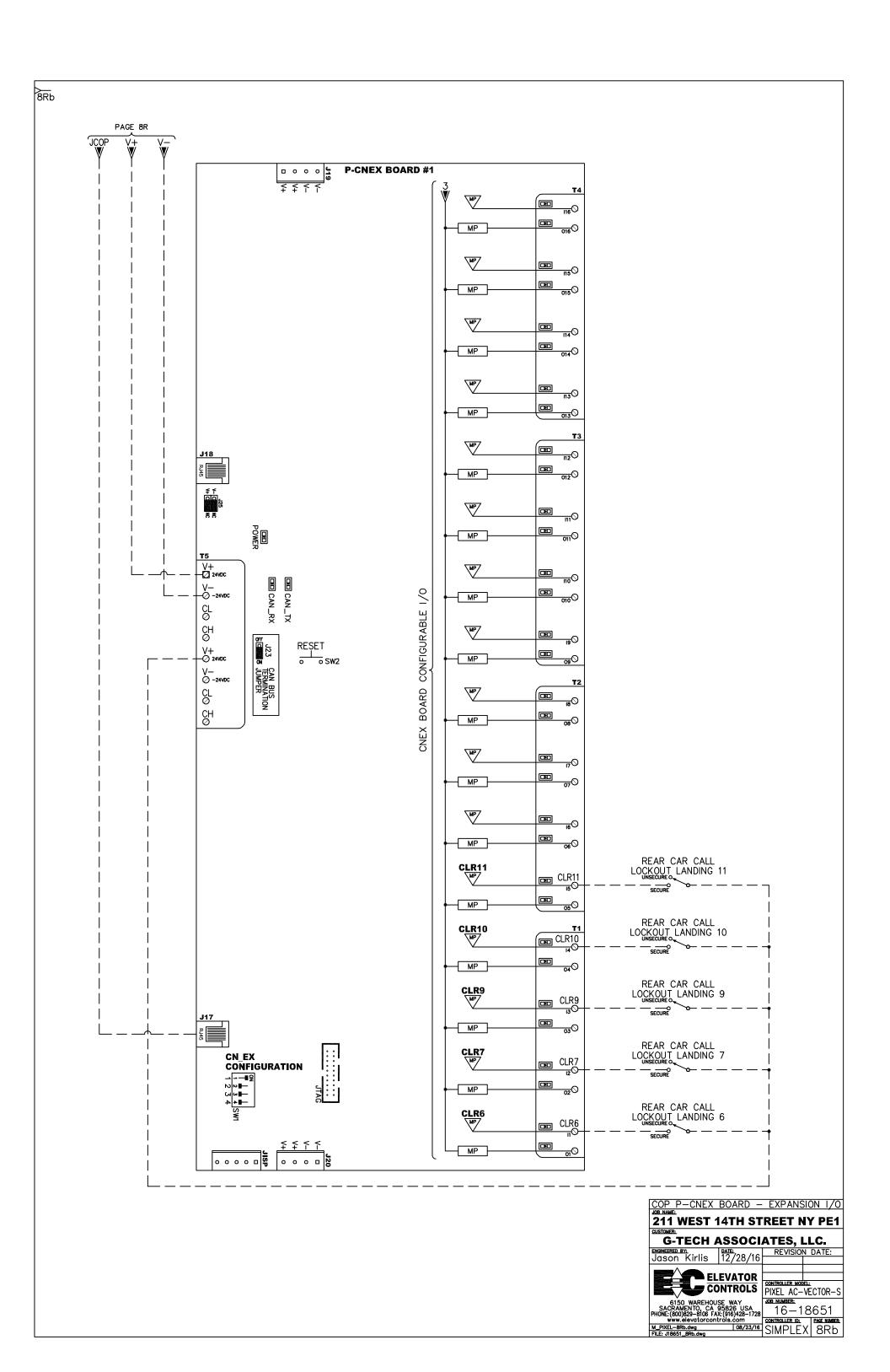


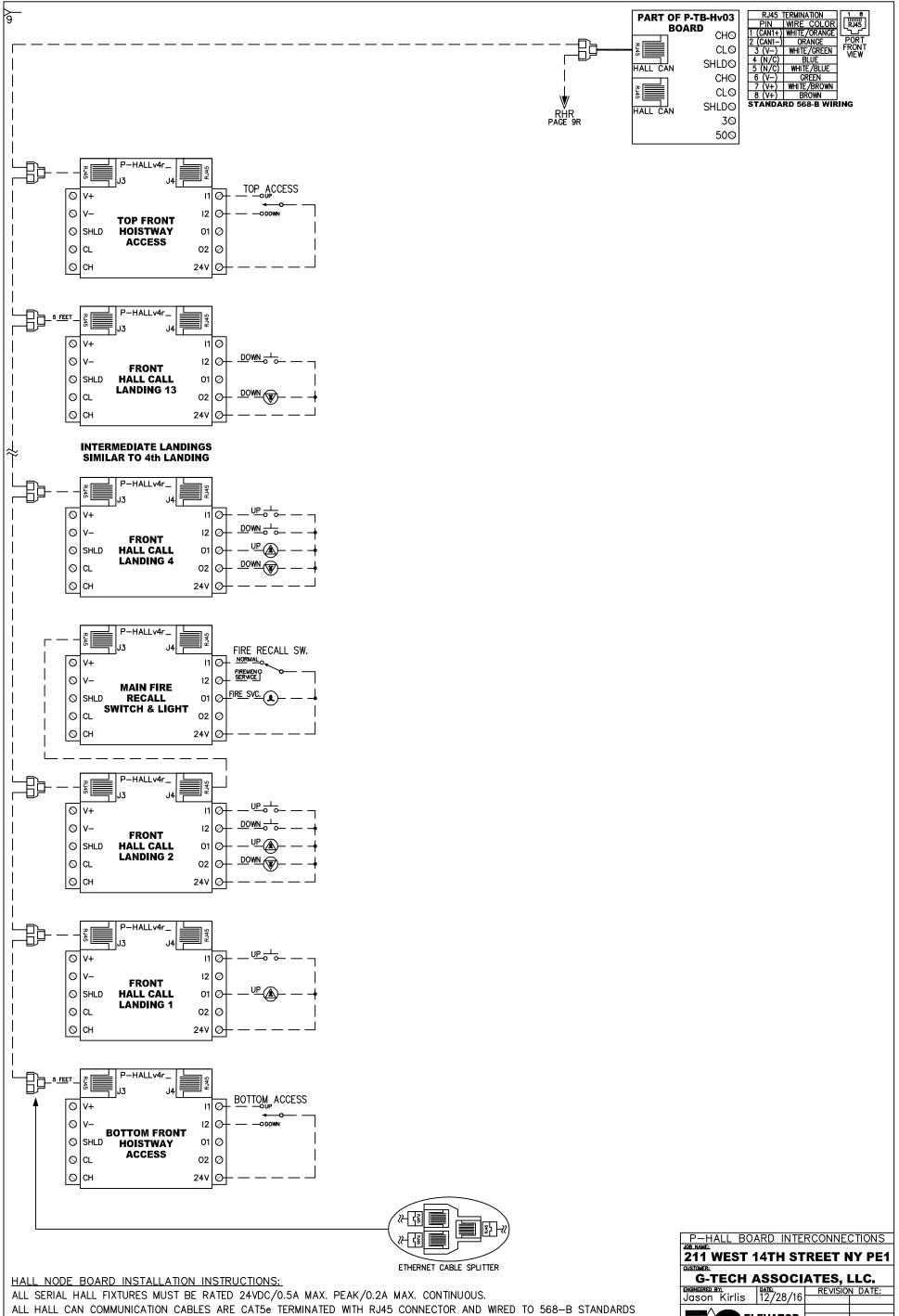










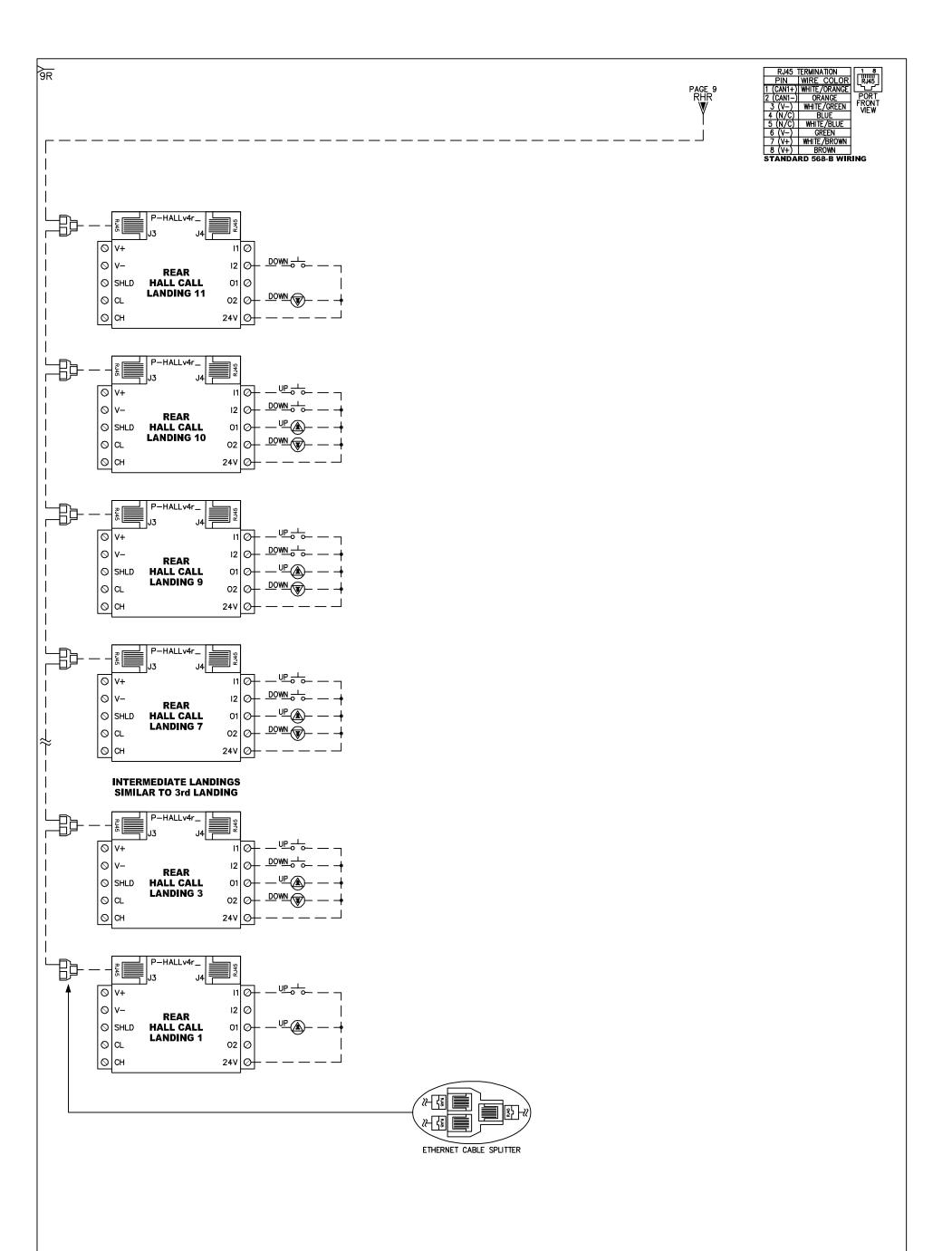


2. CONFIGURE THE P-HALL BOARD DIP SWITCH SETTINGS FOR THE CORRESPONDING HALL CALL FIXTURE (P-HALL BOARD CONFIGURATION REFERENCE TABLE IS LOCATED ON PAGE QR4b).

1. CONNECT THE HALL CALL FIXTURE TO THE P-HALL BOARD I/O AS SHOWN IN THE EXAMPLE ABOVE.

3. USE HALL CAN CABLES AND SPLITTERS TO INTERCONNECT THE P-HALL BOARDS AS SHOWN IN THE EXAMPLE ABOVE, THESE CABLES PROVIDE HALL CAN COMMUNICATION & POWER (24VDC/GND) TO EACH P-HALL BOARD.





HALL NODE BOARD INSTALLATION INSTRUCTIONS:

ALL SERIAL HALL FIXTURES MUST BE RATED 24VDC/0.5A MAX. PEAK/0.2A MAX. CONTINUOUS.

ALL HALL CAN COMMUNICATION CABLES ARE CATSe TERMINATED WITH RJ45 CONNECTOR AND WIRED TO 568-B STANDARDS

CONNECT THE HALL CALL FIXTURE TO THE P-HALL BOARD I/O AS SHOWN IN THE EXAMPLE ABOVE.
 CONFIGURE THE P-HALL BOARD DIP SWITCH SETTINGS FOR THE CORRESPONDING HALL CALL FIXTURE (P-HALL BOARD CONFIGURATION REFERENCE TABLE IS LOCATED ON PAGE QR4Rb).

3. USE HALL CAN CABLES AND SPLITTERS TO INTERCONNECT THE P-HALL BOARDS AS SHOWN IN THE EXAMPLE ABOVE, THESE CABLES PROVIDE HALL CAN COMMUNICATION & POWER (24VDC/GND) TO EACH P-HALL BOARD.

P—HALL BOARD INTERCONNECTIONS

JOB NAME:

211 WEST 14TH STREET NY PE1

CJETOMER:

G-TECH ASSOCIATES, LLC.

ENGINEERED BY:

Jason Kirlis | 12/28/16 | REVISION DATE:

12/28/16 | REVISION DATE:

CONTROLS

ACCAMENTO, CA 95824 SAPLOS, SACRAMENTO, CA 95824 SAPLONE; 800)829-8106 FAX: (9)16/428-1728

WWW.elevatorcontrols.com

M_DYKEL-9.dwg | IG3/24/16

FILE: J18651_9R.dwg

RELAY CONTACT COUNT RELAY DESCRIPTION: RELAY DESCRIPTION: REAL POLD REAKE HOLD REAKE ENABLE RE												RUN	٦		Z	5	LTO			EB2		(DOR	DCR R		'~		P.	AA		NAME	REI AY
RELAY POLE NUMBER 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1												윋		1 1	Z P A Z	ָ בּ	LIGHT &	BRAKE AUX.	BRAKE AUX.	BRAKE	RR AKF		OPFN RFAR	CLOSE REAR		ENABLE	BRAKE ENABLE					
RELAY POLE NUMBER 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1												32	31		ā	5	14	32	32	32	3	-			П	16	3 6	7,7	C	1	TYPE:	
7 POLE NUMBER; 1 NC NG NG NG NG NG NG NG NG NG NG NG NG NG												4	4				60	ر د	3	ω (74			SR R	П	14	1		4		AREA:	
7 POLE NUMBER; 1 NC NG NG NG NG NG NG NG NG NG NG NG NG NG												72	2		1/2	Si C	δ/ -	2	12	12/	2		3	SR SR		10	` 1 /		_		NO 7	\prod_{i}
7 POLE NUMBER; 1 NC NG NG NG NG NG NG NG NG NG NG NG NG NG												2	2				9/	2	2	12/	2					12/	۱ I ۱		\-	1	NO NC	RELA
No. St. St. St. St. St. St. St. St. St. St													4																\-	1	<u>`</u> [Y POL
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																													_		No.	E.
																									Ш	\perp				4	No.	

NAME:		PIXEL BOARD NAMES BOARD DESCRIPTION:	EC PART #:
P-PDB	PIXE	PIXEL POWER DISTRIBUTION BOARD	17-002-129
P-MP	PIXEL	RD	17-002-123
P-MP-IO	PIXEL	PIXEL MAIN MICROPROCESSOR I/O BOARD	17-002-124
P-T0C	PIXEL	PIXEL TOP OF CAR MICROPROCESSOR BOARD	17-002-121
P-COP	PIXEL	PIXEL CAR OPERATING PANEL MICROPROCESSOR BOARD 17-002-119	17-002-
P-HALL	PIXEL	PIXEL HALL NODE BOARD	17-002-114
P-TB-M	PIXEL	PIXEL TERMINAL BOARD MACHINE ROOM CONNECTIONS	17-002-137
P-TB-C	PIXEL	PIXEL TERMINAL BOARD CARTOP CONNECTIONS	17-002-138
P-TB-H	PIXEL	PIXEL TERMINAL BOARD HOISTWAY CONNECTIONS	17-002-139
P-CNEX	PIXEL	PIXEL EXPANSION I/O BOARD CAN BUS	17-002-116
P-MP-RDOOR	PIXEL	P-MP-RDOOR PIXEL P-MP REAR DOOR I/O EXTENDER BOARD	17-002-128
P-HNA	PIXEL	PIXEL HALL NETWORK ADAPTER BOARD	17-002-135

ij AA #4-#6 CONTACTS ARE AUXILARY CONTACTS P #5 CONTACT IS A AUXILARY CONTACT

ı	<u>57</u>	36
_	-	35
04-001-010	+ G5V2 DC12 2PDT	34
04-002-005	PRD-11AHO-	33
-001-	K10P-11A15-120 120VAC COIL 1	32
12-020-031	CA8-09-01-120 120	31
12-020-02	CA7-16-01 120VDC	30
04-001-014	PT-570-512	29
_	3 CA7-16C-01-110D CONTACTOR	28
04-001-011	\vdash	27
04-006-002	6 V23050-A1110-A533 6P 110VDC	26
-	V23049-B1	25
_	+ EC-100-C TIMER	24
04-005-002	3 CNS-35-92 TIMER 2PDT	23
04-001-008	2 KUP-14A35-240 3PDT 240VAC	22
12-008-006A	EHDB220C-1L 600	21
-) REVERSE PHASE RELAY	20
04-001-017) RU4S—A24 4PDT 24VAC	19
04-001-003	3 PT-570-024 4PDT 24VDC	18
04-001-015	-	17
04-002-003	PRD-11AHO-120 2PDT 120VAC	16
04-001-014	PT-570-512 4F	15
04-001-016	KUP-14D15-24 3PDT 24VDC	14
04-001-009	DS2-ML-DC12 2PDT	13
ı	DS2-M-DC12 2	12
ı	-ML-DC48	<u> </u>
ı	DS2-M-DC48 2PD	10
I	7AY120 4PDT 120V	9
04-001-006	KUP-14A35-1203PDT 120VAC	œ
욄	1103PDT	7
04-002-002	PRD-11DH0-1102PDT 110VDC	6
04-002-001	PM17DY-110 4PDT 110VDC	ű
04-001-005	RU4S-CA-110 4PDT 120VAC	4
12-020-050A	C-H XTCE095F00A	3
_	TRN/D-0 311 2PDT 110VAC/DC	2
04-001-001	RUS4S-CD-110 4PDT 110VDC	_
EC PART #:	MANUFACTURER PART #:	#
	RELAY TYPES	

9 (2)

- PC BOARD SLIDE JUMPER ON/OFF

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1

GROUND (EARTH GROUND)

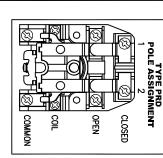
MECHANICAL OPERATED CAM SWITCH

VANE SWITCH

SCHEMATIC SYMBOLS STANDARD FGR (FORCE GUIDED) (NUMBER SP1 SP2 – Q_ - OUTPUT W/ REPLACEABLE TRANSISTOR INDICATES POLE AND FIXED CONTACT) NORMALLY CLOSEI - NORMALLY OPEN CONTACT - → + SAFETY F.P.G.A .OUTPUT MICROPROCESSOR OUTPUT PANEL MOUNT SCREW TERMINAL MICROPROCESSOR INPUT SAFETY MICROPROCESSOR OUTPUT HIGH POWER SCREW TERMINAL PCB MOUNTED HARNESS (IDC) TERMINAL EC INTERNAL CONTROLLER WIRING FIELD WIRING PC BOARD TRACE RELAY COIL -D CONTACT -(BY CUSTOMER) TERMINAL BLOCKS AT. 57 2 3 2 OPEN CLOSED C TYPE KUP POLE ASSIGNMENT (EXT. SOCKET) 1 2 3 TYPE KHU POLE ASSIGNMENT (EXT. SOCKET) 1 2 3 4) O O O CLOSED

COMMON

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SAFETY F.P.G.A. INPUT

SAFETY MICROPROCESSOR INPUT

COMMON

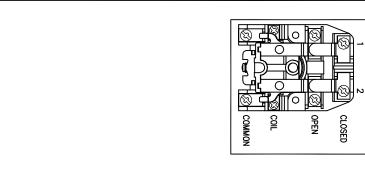
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RESISTOR

FUSE (DOT

INDICATES TOP OF FUSE)

RESISTOR WITH ADJUSTABLE TAP (DOT INDICATES TOP OR LEFT AS INSTALLED) DIODE



MOV (VOLTAGE TRANSIENT SUPPRESSOR)

DIODE BRIDGE

NON POLAR

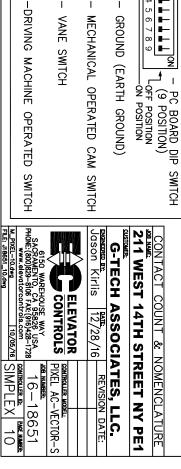
CAPACITOR

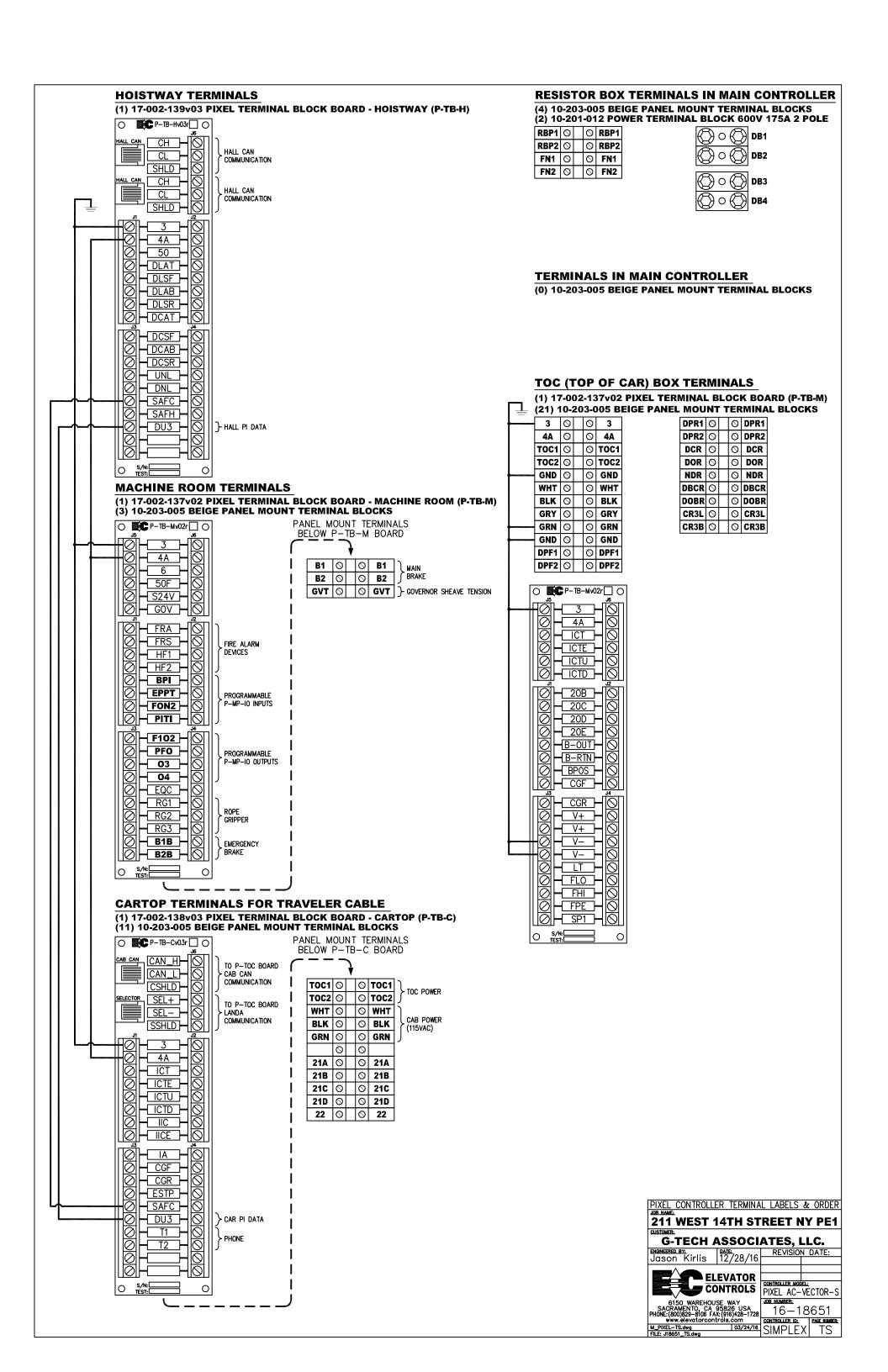
POLAR CAPACITOR

AC RATED CAPACITOR

<u>E</u>

ZENER DIODE







LIMITED PRODUCT WARRANTY

Before attempting to install Elevator Controls products, please read and familiarize yourself with the respective manuals.

Elevator Controls warrants its products to be free from defects in materials and workmanship for a period of **15 months** from the date of shipment by **Elevator Controls**. Any defect appearing more than **15 months** from the date of shipment by **Elevator Controls** shall be deemed to be due to ordinary wear and tear. **Elevator Controls** assumes no risk or liability for results of the use of products purchased from it, including but without limiting the generality of foregoing: (1) the use in combination with any electrical or electronic components, circuits, systems assemblies or any other materials or substances; (2) unsuitability of any product for use in any circuit or assembly or environment.

Satisfaction of this warranty, consistent with other provision herein, shall be limited to, at the sole discretion of **Elevator Controls**, repair, replacement, or modification of the product, free of charge, F.O.B. factory. This warranty applies to any product which is received at the factory within said **15 months** and which, upon examination by **Elevator Controls**, is determined to have a defect which has not been caused by misuse, neglect, improper installation, improper application, improper operation, improper maintenance, repair or alteration, accident, or unusual deterioration or degradation of the equipment or parts thereof due to physical environment or due to electrical or electromagnetic environment.

Should purchaser experience trouble or difficulty with any product of **Elevator Controls** and request engineering assistance either by telephone or a field visit or visits by a representative of

Elevator Controls, Elevator Controls may, at its sole discretion, provide said assistance.

Should, in the opinion of **Elevator Controls**, the trouble or difficulty be a warranty problem as herein described, **Elevator Controls** will absorb all travel, labor, and expense costs involved.

Should in the opinion of **Elevator Controls**, the trouble or difficulty be a result of any other reason than the warranty described herein, the purchaser will be charged for the travel, labor, and expense costs by **Elevator Controls**, for providing engineering assistance, whether it be by telephone, correspondence, or field visit or visits by a representative of **Elevator Controls**. A schedule of fees is available on request for engineering services by **Elevator Controls**.

The giving of or failure to give any advice or recommendation by **Elevator Controls** shall not constitute any warranty by or impose any liability upon **Elevator Controls**. This warranty constitutes the sole and exclusive remedy of the purchaser and the exclusive liability of the manufacturer, AND IS IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESS, IMPLIED, OR STATUTORY AS TO MERCHANTABILITY, FITNESS FOR PURPOSE SOLD, DESCRIPTION, QUALITY, PRODUCTIVITY, OR ANY OTHER MATTERS. In no event shall **Elevator Controls** be liable for special or consequential damages or for delay in performance of this warranty.

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