



Job Name: The Angeline Bldg 1

Job Number: 250214-001

CAR ID:=1

Controller Type: C4 Traction

Date: Feb-18-2025 08:29 AM UTC

Company Name: OLS-NA - Ayr, ON

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Reference Designators

++BLD : Building
+FIRE : Fire Panel
+GEN : Generator
++MR : Machine Room
+GOV : Governor
+MRC : Machine Room Controller
+MRD : Main Machine Room Disconnect
+MRD2 : Auxiliary Machine Room Disconnect
+MRSM : Smoke Sensors
+MTR : Machine/Motor
+SCE : Security System
+SEISMIC : Seismic Sensor
+UPS : Battery Backup Unit (Uninterrupted Power Supply)
++C : Car
+COP : Car Operating Panel
+CTC : Car Top Controller
+CTI : Car Top Inspection Station
+CTS : Car Top Safeties
+DOOR : Door Operator
+ESCH : Escape Hatch
+FAN : Car Fan
+CPI : Car Position Indicator
+LDS : Landing System
+LIGHT : Car Light
+LWD : Load Weighing Device
++HOIST : Hoistway
+BFL : Bottom Final Limit
+TFL : Top Final Limit
+BUF : Buffer
+HLB : Hall Station at the Bottom Landing
+HLT : Hall Station at the Top Landing
+HPI : Hall Position Indicator
+HOIST : General Hoistway Location
+PIT : Hoistway Pit
+LSD : Landing System

Cross Reference Example

Page Number

Page X-Coordinate

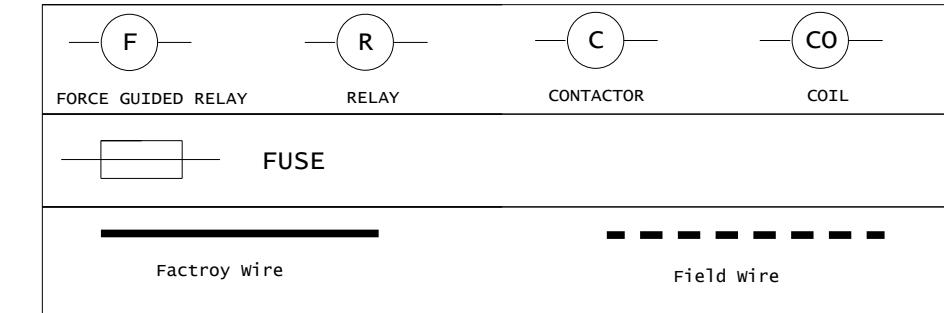
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Page Y-Coordinate

Symbol Definitions

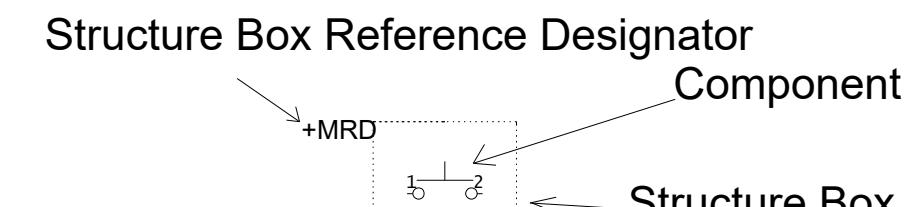
	BUZZER
	Normally Closed Contact
	Normally Open Contact
	Key Switch Normally Open*
	Key Switch Normally Closed*
	Lamp
	Normally Open Push Button
	Normally Closed Push Button
	Hoistway Switch
	Twisted Wire Pair
-IO BOARD ID IO SIGNAL NAME IO PIN NAME	PCB Input/Output
	Terminal Block
	Terminal Block Jumper
A2 A1	Relay/Contactor Coil

* The "Normal" position of a keyswitch is defined as the position that allows the Elevator to be in Normal Operation. If a Multi-Pole selector switch does not show any pole in a closed position, that means that that switch does not play any role in determining if the elevator is in normal operation or not.



Structure Box Example

If a component, that is shown on a particular page, is located in a different physical location than what is indicated, at the bottom of the page, by the Car, Installation Site, and Mounting Location, then the component(s) will be surrounded by a structure box that indicates where the component(s) are physically located.



A	B	C	D	E	F	G	H	I
		CAR	Installation Site	Mounting location	Description	Sheet Number	Idx.	
0		=1	++	+	Cover sheet	0001	1	0
1		=1	++	+	Distributor legend	0001	2	1
2		=1	++	+	Job Data	0002	3	2
3		=1	++	+	Car Tables	0003	4	3
4		=1	++	+	Safeties & Preflight	0004	5	4
5		=1	++	+MRC	MRSRU Overview	0005	6	5
6		=1	++	+MRC	Expansion/Riser Overview 1	0006	7	6
7		=1	++	+MRC	Main Power Distribution	0007	8	7
8		=1	++	+MRC	Drive and Regen	0008	9	8
9		=1	++	+MRC	Power Supplies, Brakes, and Hall PI	0009	10	9
10		=1	++	+MRC	MR Board Power, Comm, and IO connections 1	0010	11	10
11		=1	++	+MRC	MR IO Connections 1	0011	12	11
12		=1	++	+MRC	Riser Board Connections 1	0012	13	12
13		=1	++	+MRC	Group Connections	0013	14	13
14		=1	++	+CTC	Traveler	0014	15	14
15		=1	++	+CTC	CT Board Overview	0015	16	15
16		=1	++	+CTC	CT Power Supply	0016	17	16
17		=1	++	+CTC	CT PI, Board Power, Comm, and Landing System	0017	18	17
18		=1	++	+CTC	CT Door Operator 1	0018	19	18
19		=1	++	+COP	COP Board Overview	0019	20	19
20		=1	++	+COP	COP Board Power, Comm	0020	21	20
21		=1	++	+CTI	Car Top Inspection Box	0021	22	21
22		=1	++	+HALL	Hall Network Overview and Examples 1	0022	23	22
23		=1	++	+HALL	HALL CALL DIP Switches 1	0023	24	23
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ENGINEERED BY: Roy	JOB NO: 250214-001	JOB NAME: The Angeline Bldg 1	CAR =1	INSTALATION SITE ++	MOUNTING LOCATION +	SHEET NO: 1	CHANGE DATE	PRINT DATE 19.03.25
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A	B	C	D	E	F	G	H	I												
0	VERSION: C4PMAC2000		GROUP/SIMPLEX: SIMPLEX	MACHINE ROOM: X	CARTOP: X	COP: X	FIRE CODE: ASME A17.1:2019													
Job Specifications - Traction																				
1	Car	Group#	Group Car ID	Contract Speed	Floors	Capacity	Main Line Voltage	Motor Volts	Motor HP	Motor FLA	Motor Poles	Motor RPM	Motor Freq	ISO KVA	Minimum ISO AWG	Minimum Drive AWG	Minimum Motor AWG	Input Amps	Drive	
1	1	Simplex 1	0	200	4	2500	208	165	10.45	43	20	243.5	40.6	N/A	N/A	8	6	39	17F5A1H-PLPD	
2	Car	Doors	DR Breaker Voltage	Brake Pick	Brake Hold	Brake Ohm	Brake Amp	M. Cont. P/N	B.1 Cont. P/N		Encoder PPR	EBrake	B.2 Cont. P/N		EBrake Pick	EBrake Hold	EBrake Ohm	EBrake Amp	DBR Ohm Range	DBR Min. Wattage
2	1	1	120	104	52	32.3	3.22	CA7-55-00-120	CA7-12E-10-24E		2048	Dual Brake	CA7-12-10-120		104	52	46	2.26	4.5 - 7 Ohms	4630
3																				
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ENGINEERED BY:		JOB NO:			JOB NAME:				CAR	INSTALATION SITE		MOUNTING LOCATION		SHEET NO:	CHANGE DATE	PRINT DATE				
Roy		250214-001			The Angeline Bldg 1				=1	++		+		2			19.03.25			

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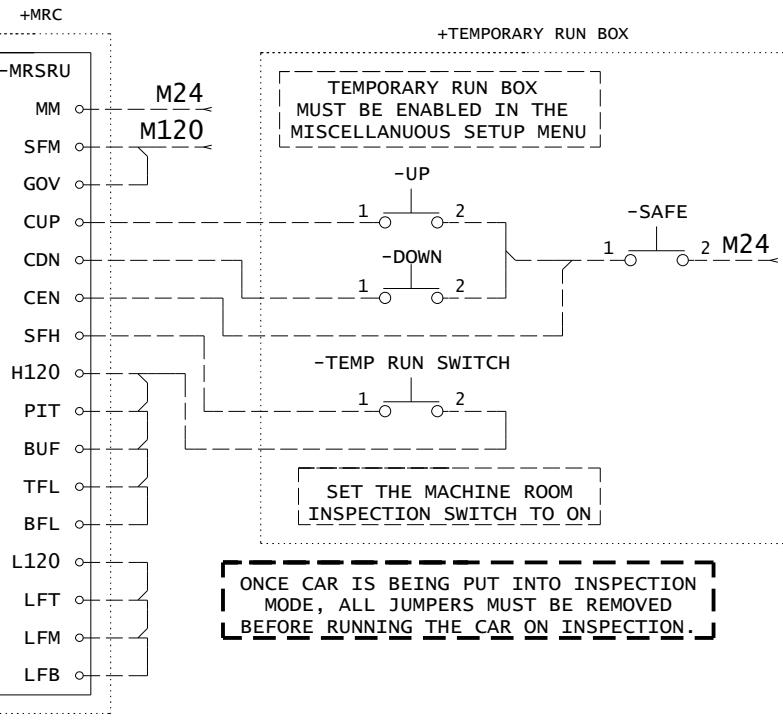
***** ORDER NOTES *****

ORDER SMARTRISE PRE-LABELED TRAVELER CABLE

ORDER SMARTRISE HOISTWAY CABLE

***** 469-678-8000 DIAL 1 *****

CONSTRUCTION MODE



NOTE:
WIRES NOTED [1] ARE 14 AWG
WIRES NOTED [2] ARE 20-24 AWG SHIELDED PAIRS
ANYTHING UNMARKED IS 18 AWG

TRAVELING WIRES

WIRE:	RECOMMENDED:
CN1+ [2]	Pair : 1
CN1- [2]	Pair : 1
CN2+ [2]	Pair : 2
CN2- [2]	Pair : 2
TP1 [2]	Pair : 3
TP2 [2]	Pair : 3
REF	1
120	2
DRF	3
N	4
BLK [1]	BLACK
WHT [1]	WHITE
PE [1]	GREEN

HOISTWAY WIRES

WIRE:	RECOMMENDED:
PIT	1
BUF	2
BFL	3
TFL	4
SFH	5
H120	6
ABD	7
CE3	8
FK	9
FR	10
H24	11
REF	12
ATU	13
ATD	14
ABU	15
L120	16
LFT	17
LFM	18
LFB	19

DRIVE PARAMETERS

PARAMETER SECTION		PARAMETER VALUE
BASIC SETUP		
US03	MOTOR TYPE	PM Gearless(3)
US04	CONTROL TYPE	Serial Serv.49(4)
US05	LOAD CONFIGURATION	Write To Drive(2)
US06	CONTRACT SPEED	200 (FPM)
INPUTS		
L101	TYPE OF INPUT	NPN(1)
L104	INPUT 1 FUNCTION	ESD(21)
MOTOR DATA		
LM01	MOTOR POWER	10.45
LM02	MOTOR SPEED	243.5
LM03	MOTOR CURRENT	43
LM04	MOTOR FREQUENCY	40.6
LM05	MOTOR VOLTAGE	165
LM07	MOTOR TORQUE	224
LM09	MTR CUR PROTECTION	43
ENCODER		
LE02	ENCODER PPR	2048
LE05	ENCODER 1 MULTIPLIER	8
MACHINE DATA		
LN01	SHEAVE DIAMETER	6.3
LN02	GEAR RATIO	1
LN03	ROPING RATIO	2
LN04	LOAD CAPACITY	2500
SPEED PROFILE		
LS01	LEVELING SPEED	10
LS02	HIGH SPEED	200
CONTROL SETTING		
LC30	MAXIMUM TORQUE	300%
OUTPUTS		
LO20	OUTPUT FUNC RLY2	Drive On(3)
LO15	OUTPUT FUNC RLY1	Drive Ready(2)
FIELD BUS		
FB06	SPEED SCALE MULTIPLIER	10
FB11	BAUD RATE	115200 BPS (4)
FB13	PDO1 MAP	1182 0102h
FB14	PDO2 MAP	11B2 0102h
FB15	PDO3 MAP	1181 0102h
FB16	PDO4 MAP	118B 0102h
FB17	PDI1 MAP	1281 0102h
FB18	PDI2 MAP	1282 0102h
FB19	PDI3 MAP	1283 0102h
FB20	PDI4 MAP	1284 0104h
FB21	SPECIAL FUNCTION 1	Insp. Speed(32)
FB22	SPECIAL FUNCTION 2	Fault Reset (16)

SMARTRISE CONTROLLERS WIRE COLORING SCHEME

WIRE COLOR:	
BLACK	MAIN LINE VOLTAGE
RED	CONTROL CONDUCTORS (50-600 VOLTS)
WHITE	RETURN (50-600 VOLTS)
BLUE	POWER (0-50 VOLTS)
BLUE/WHITE	RETURN (0-50 VOLTS)
GREEN/YELLOW	EQUIPMENT GROUNDING CONDUCTOR

ENGINEERED BY:
Roy

JOB NO:
250214-001

JOB NAME:
The Angeline Bldg 1

CAR
=1

INSTALATION SITE
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MOUNTING LOCATION
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EB3	EB SAFETY PROCESSOR RELAY 2																																																																																																																										
EB4	EB MAIN PROCESSOR RELAY 2																																																																																																																										
EBS	EMERGENCY CONTACT 1																																																																																																																										
ETSLD	EMERGENCY TERMINAL SPEED LIMITING DEVICE																																																																																																																										
GH24	GROUP HALL 24VDC																																																																																																																										
GN+/GN-	GROUP NETWORK																																																																																																																										
GND	GROUND																																																																																																																										
GOV	GOVERNOR																																																																																																																										
H24	HOISTWAY 24 VDC																																																																																																																										
HAB	HOISTWAY/ACCESS BREAKER																																																																																																																										
LRT	REAR TOP INTERLOCK																																																																																																																										
LRM	REAR MIDDLE INTERLOCK																																																																																																																										
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ENGINEERED BY:
Roy

JOB NO:
250214-001

JOB NAME:
The Angeline Bldg 1

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MOUNTING LOCATION
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SHEET NO:
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CHANGE DATE
19.03.25

PRINT DATE
19.03.25

ENGINEERED BY:
Roy

JOB NO:
250214-00

JOB NAME:
The Angeline Bldg

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INSTALATION SITE MO
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HEET NO: CHANGE DATE PRINT DATE

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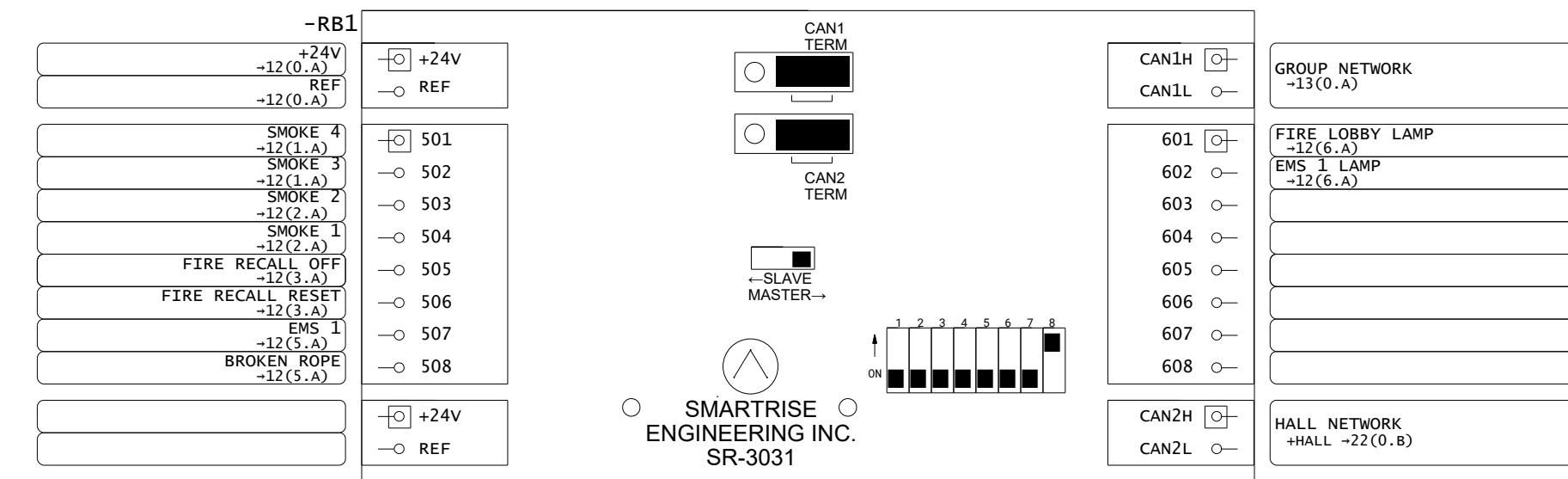
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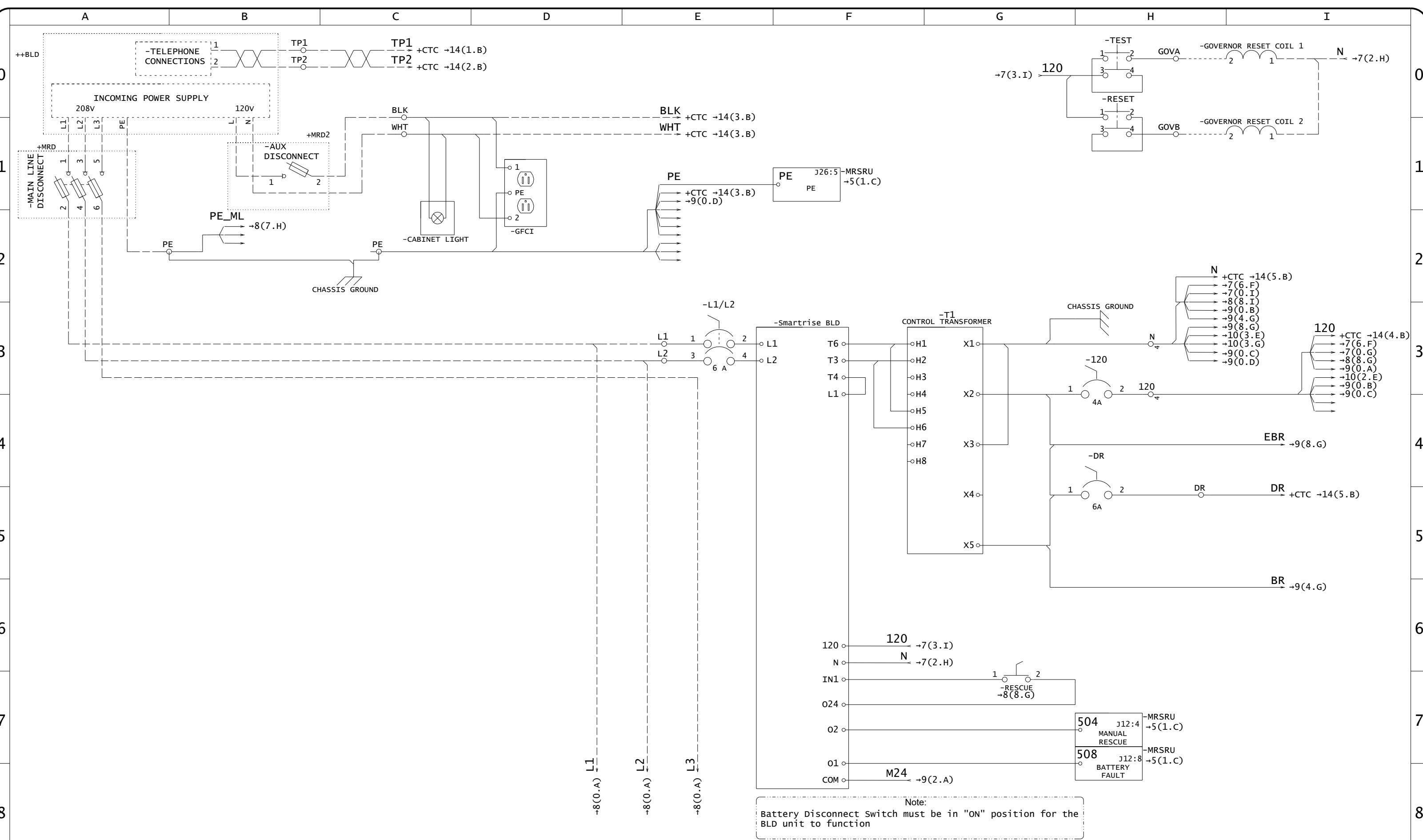
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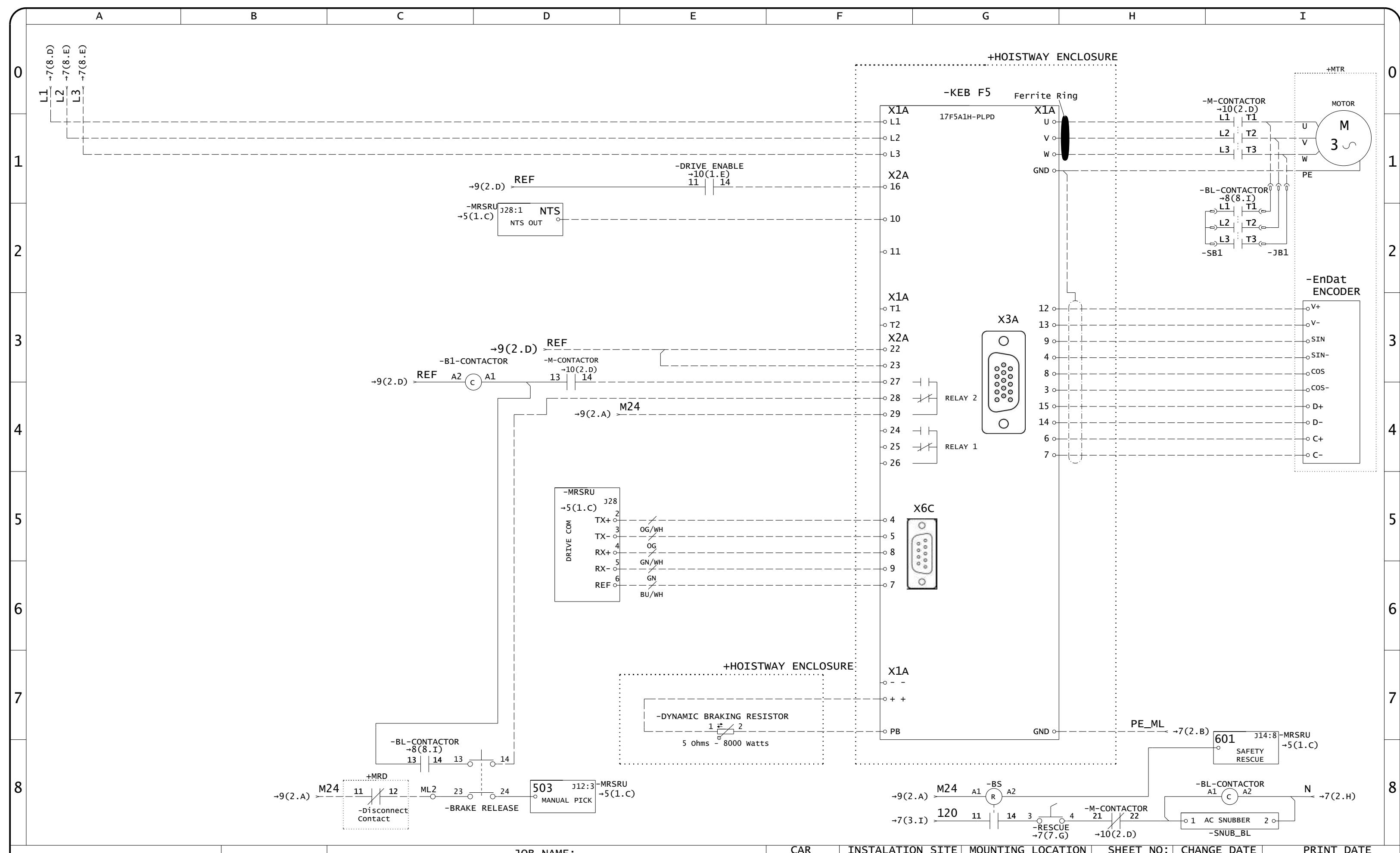
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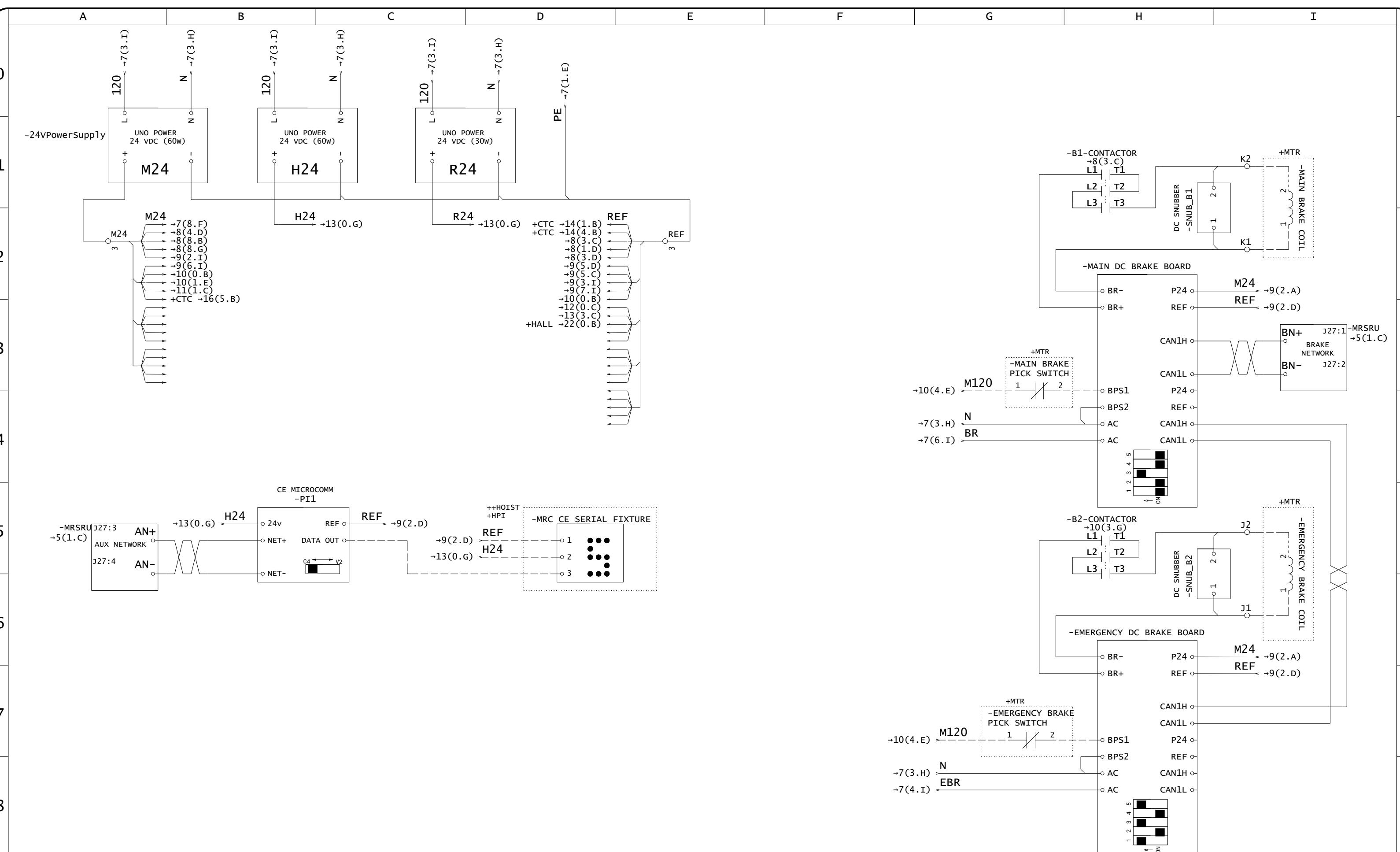




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ENGINEERED BY: Roy	JOB NO: 250214-001	JOB NAME: The Angeline Bldg 1	CAR =1	INSTALATION SITE ++	MOUNTING LOCATION +MRC	SHEET NO: 8	CHANGE DATE	PRINT DATE 19.03.25
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ENGINEERED BY:
Roy

JOB NO:
250214-001

JOB NAME:
The Angeline Bldg 1

CAR
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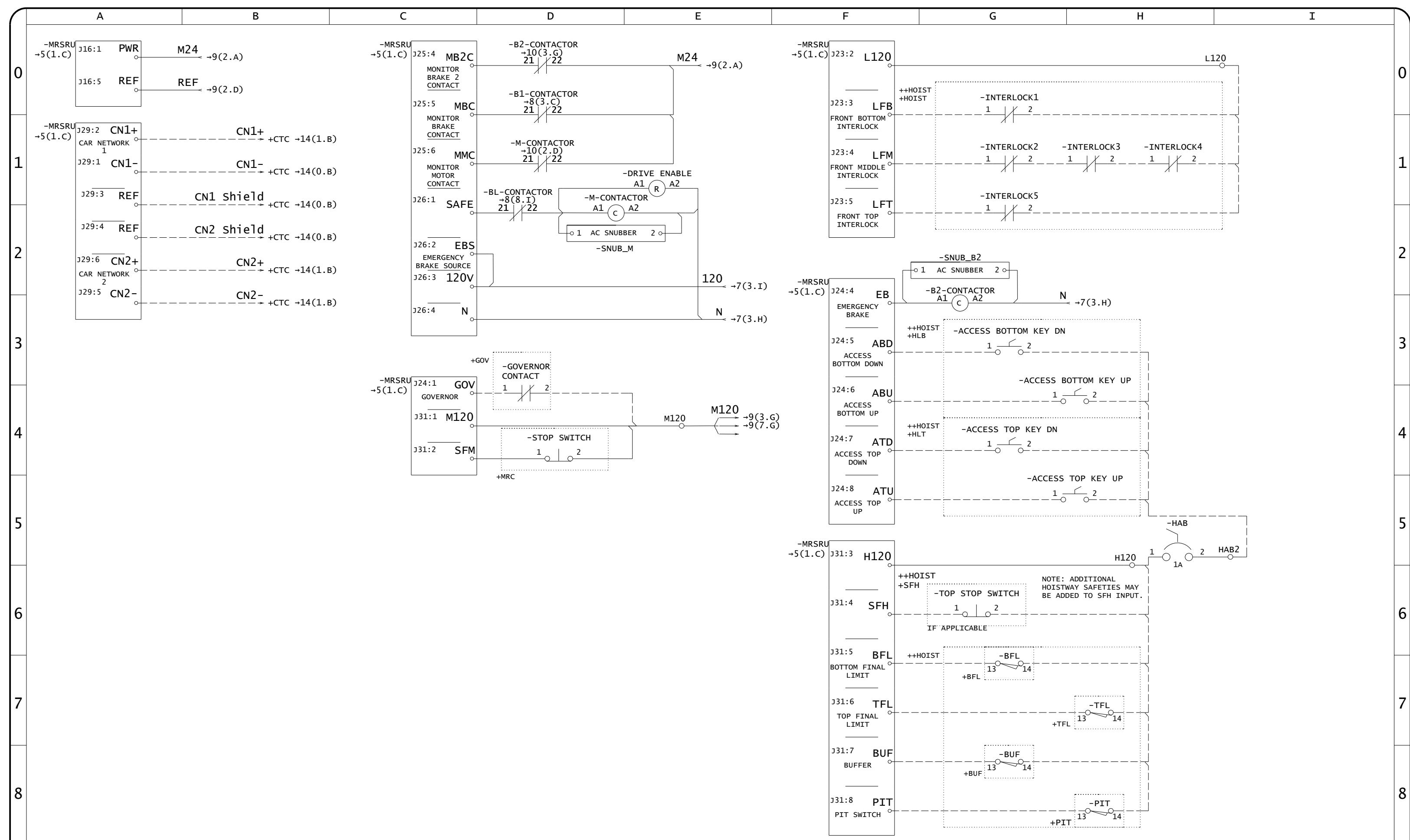
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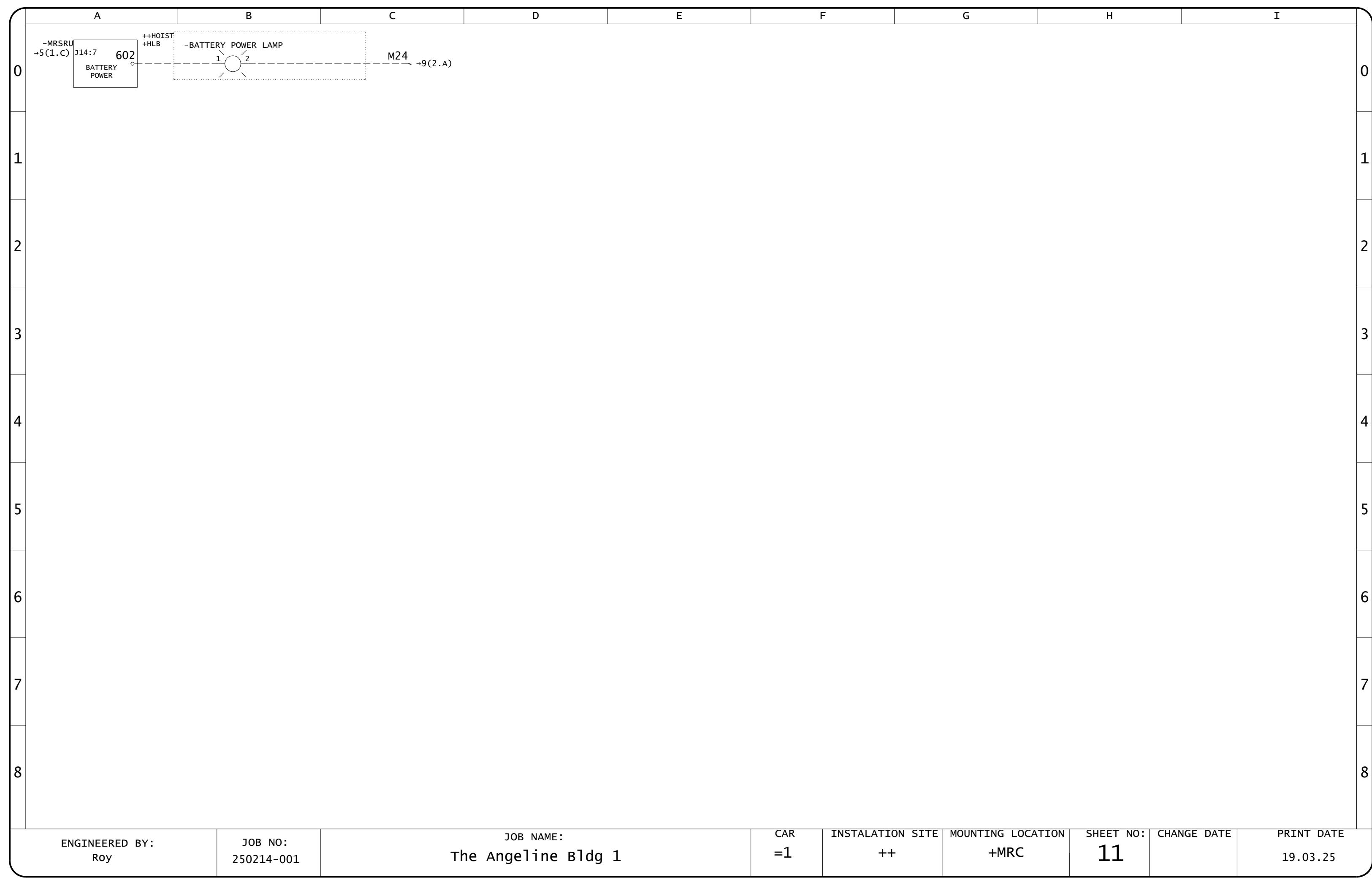
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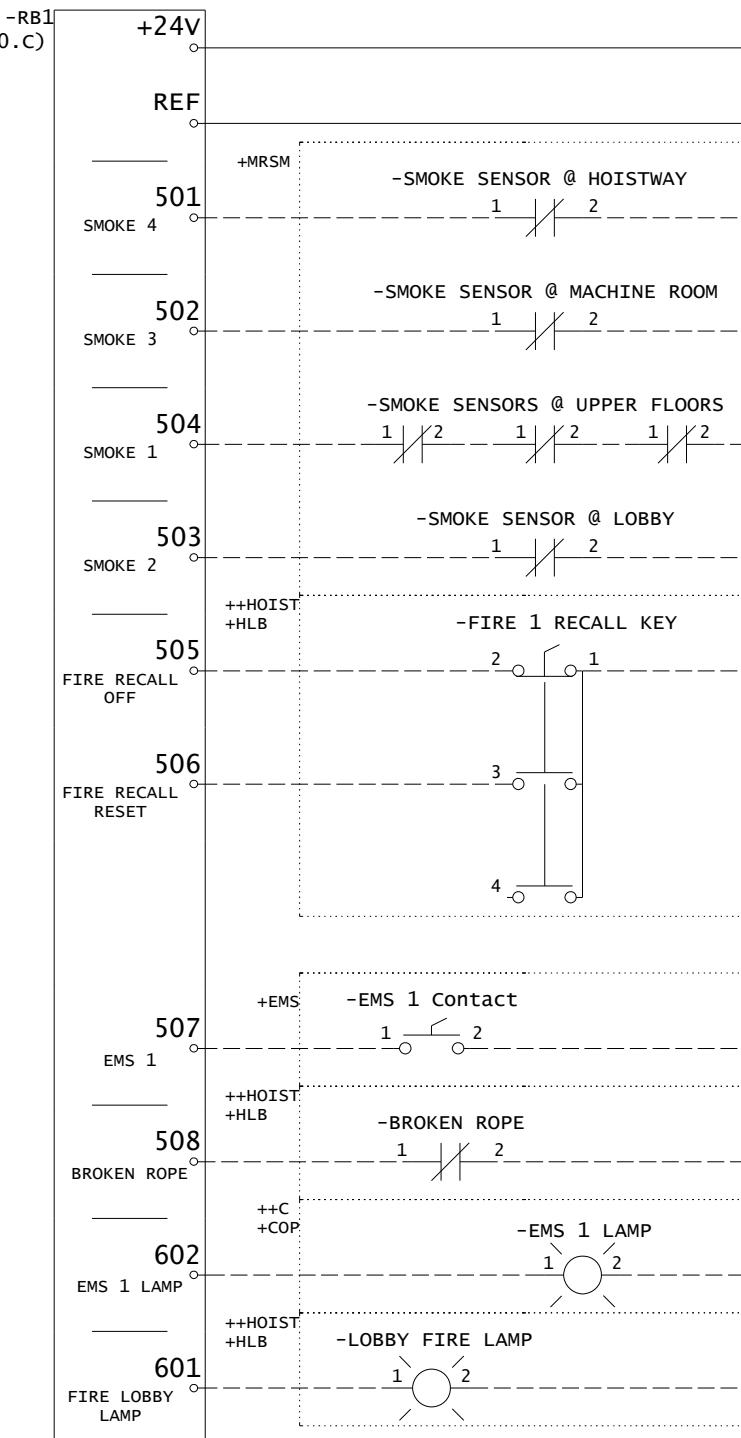
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CHANGE DATE

PRINT DATE
19.03.25







ENGINEERED BY:
Roy

JOB NO:
250214-00

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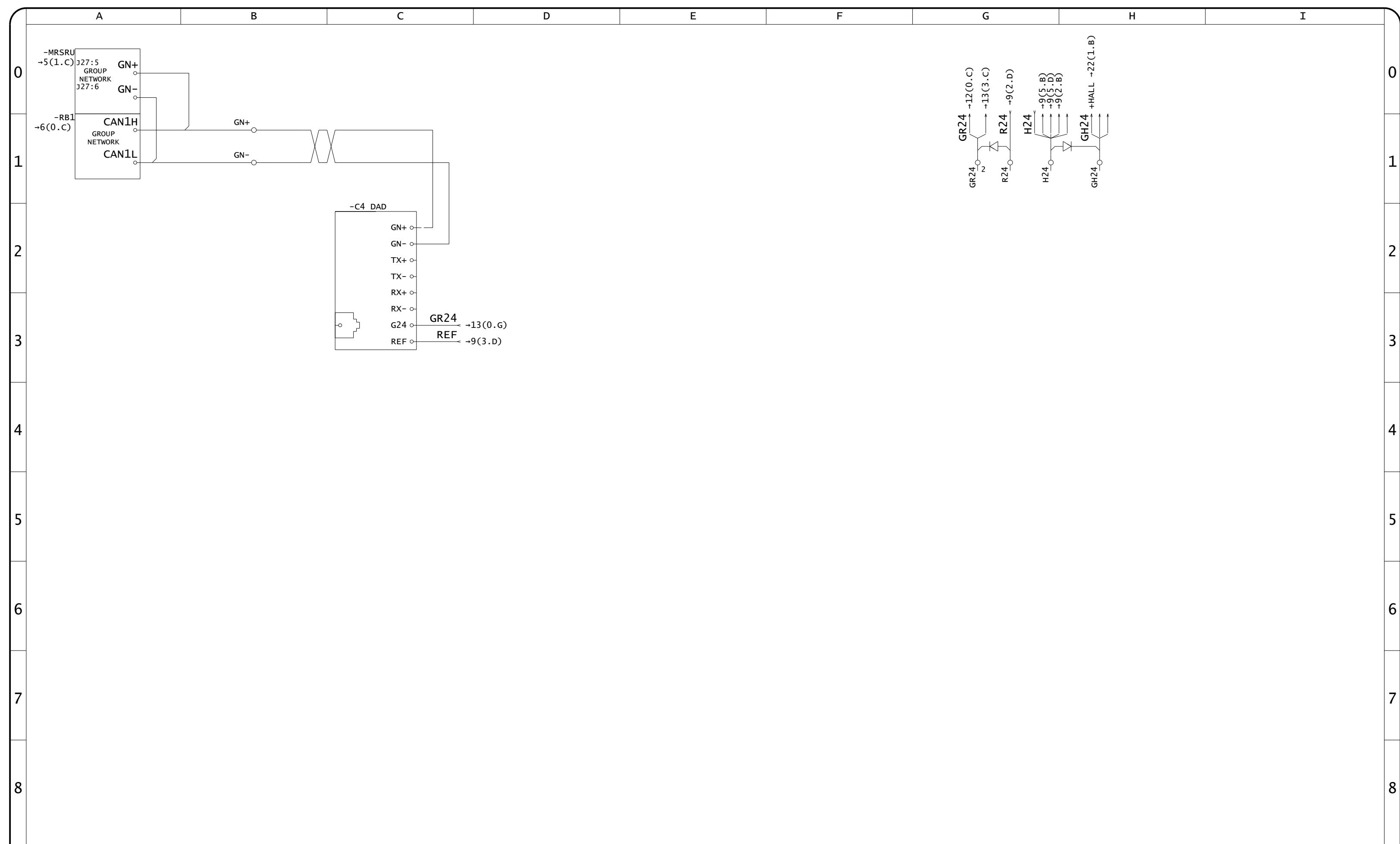
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PRINT DATE



ENGINEERED BY:
Roy

JOB NO:
250214-001

JOB NAME:
The Angeline Bldg 1

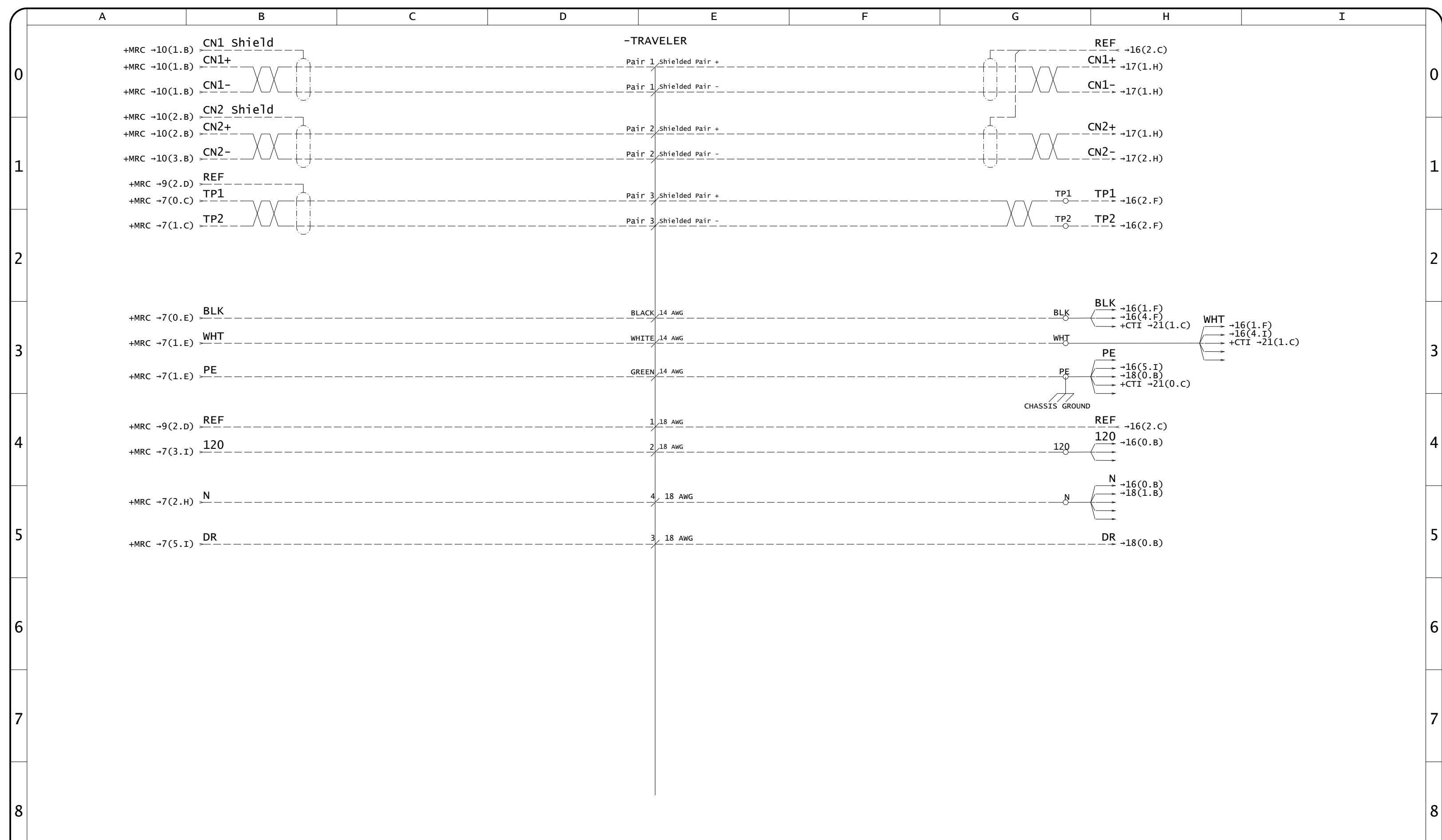
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INSTALATION SITE
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CHANGE DATE
PRINT DATE
19.03.25



ENGINEERED BY:
Roy

JOB NO:
250214-001

JOB NAME:
The Angeline Bldg 1

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INSTALATION SITE
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MOUNTING LOCATION
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SHEET NO:
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CHANGE DATE
19.03.25

PRINT DATE
19.03.25

ENGINEERED BY:
Roy

JOB NO:
250214-001

JOB NAME:
The Angeline Bldg 1

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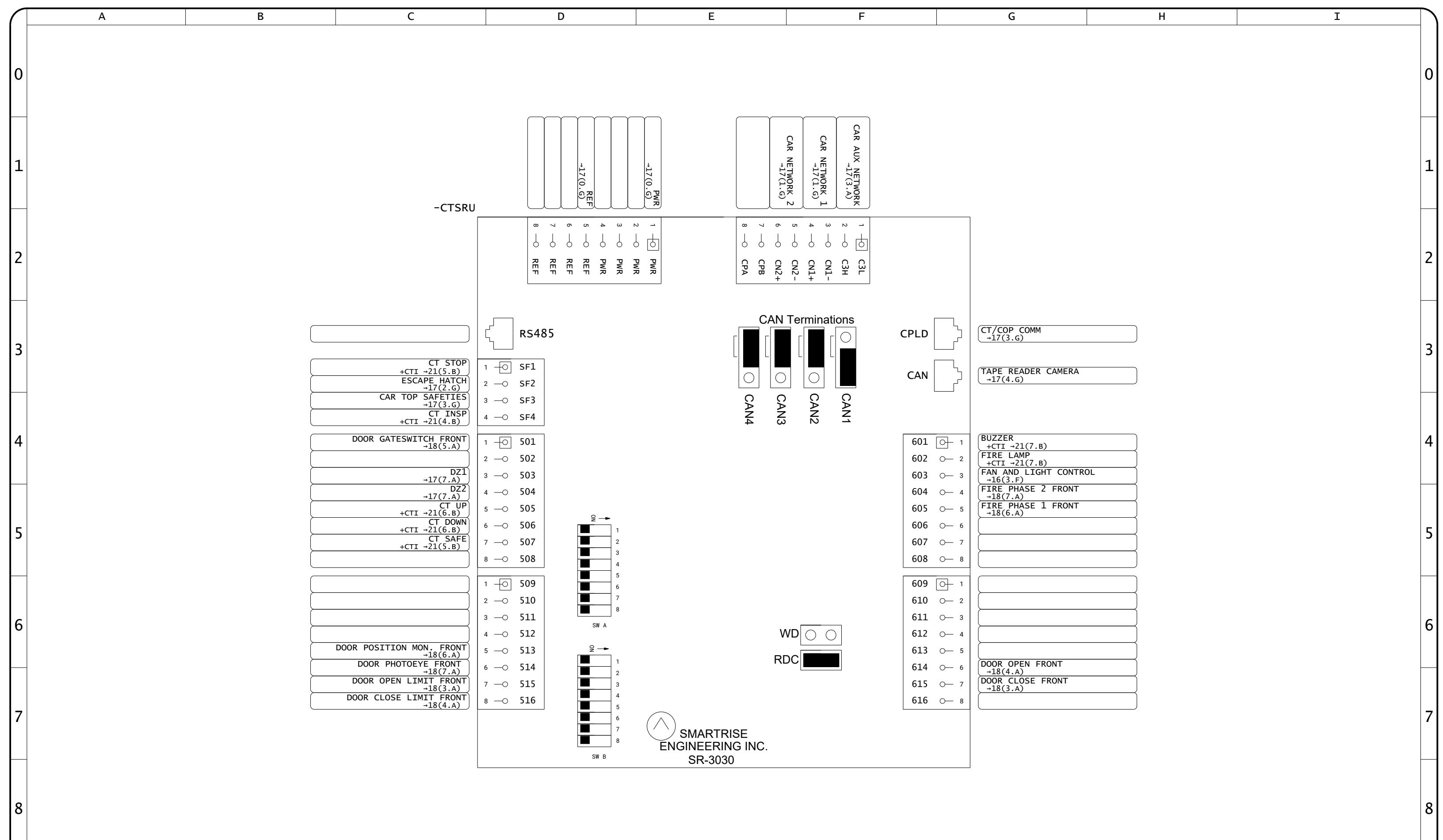
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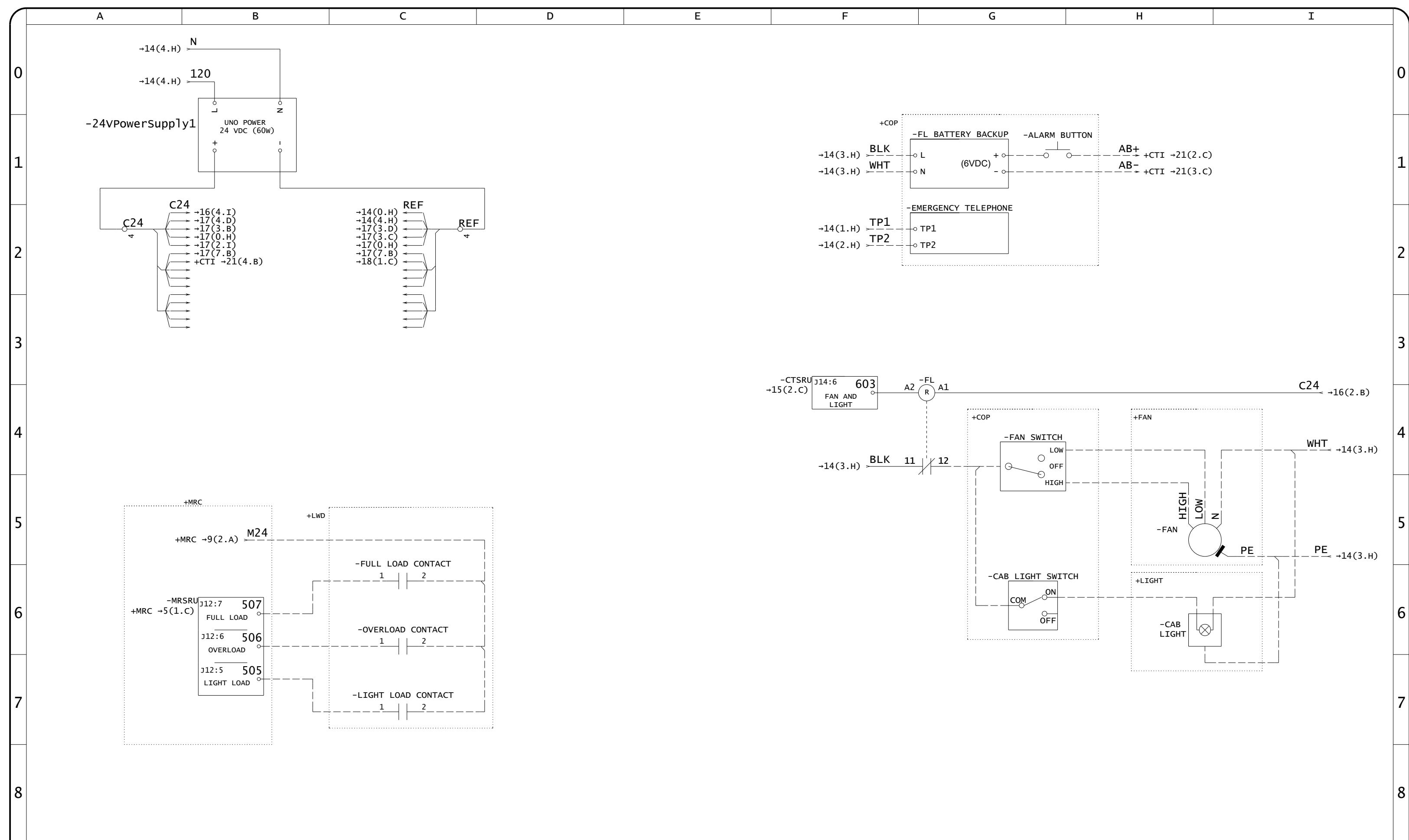
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SHEET NO:
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CHANGE DATE
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PRINT DATE





ENGINEERED BY:
Roy

JOB NO:
250214-001

JOB NAME:
The Angeline Bldg 1

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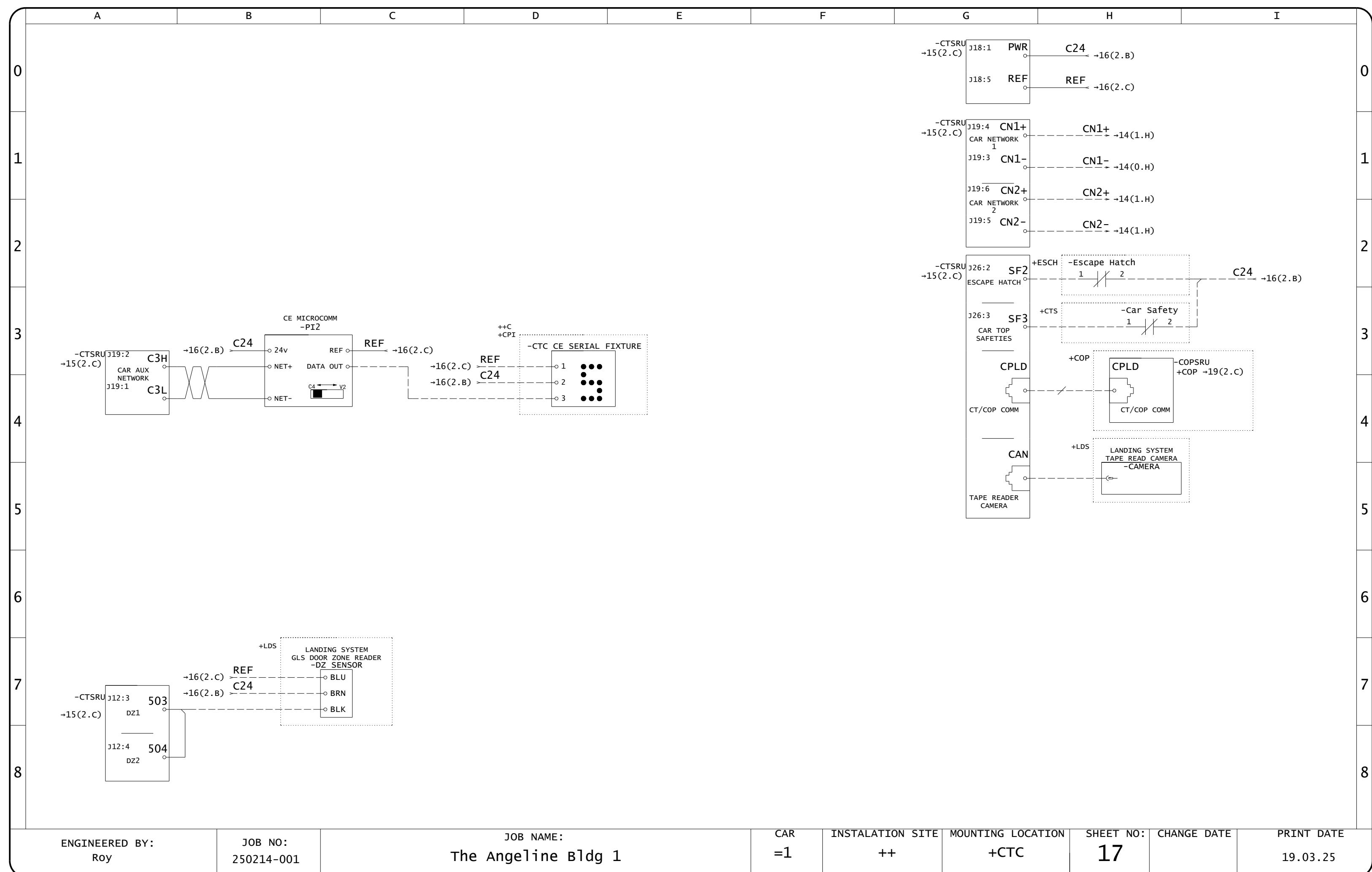
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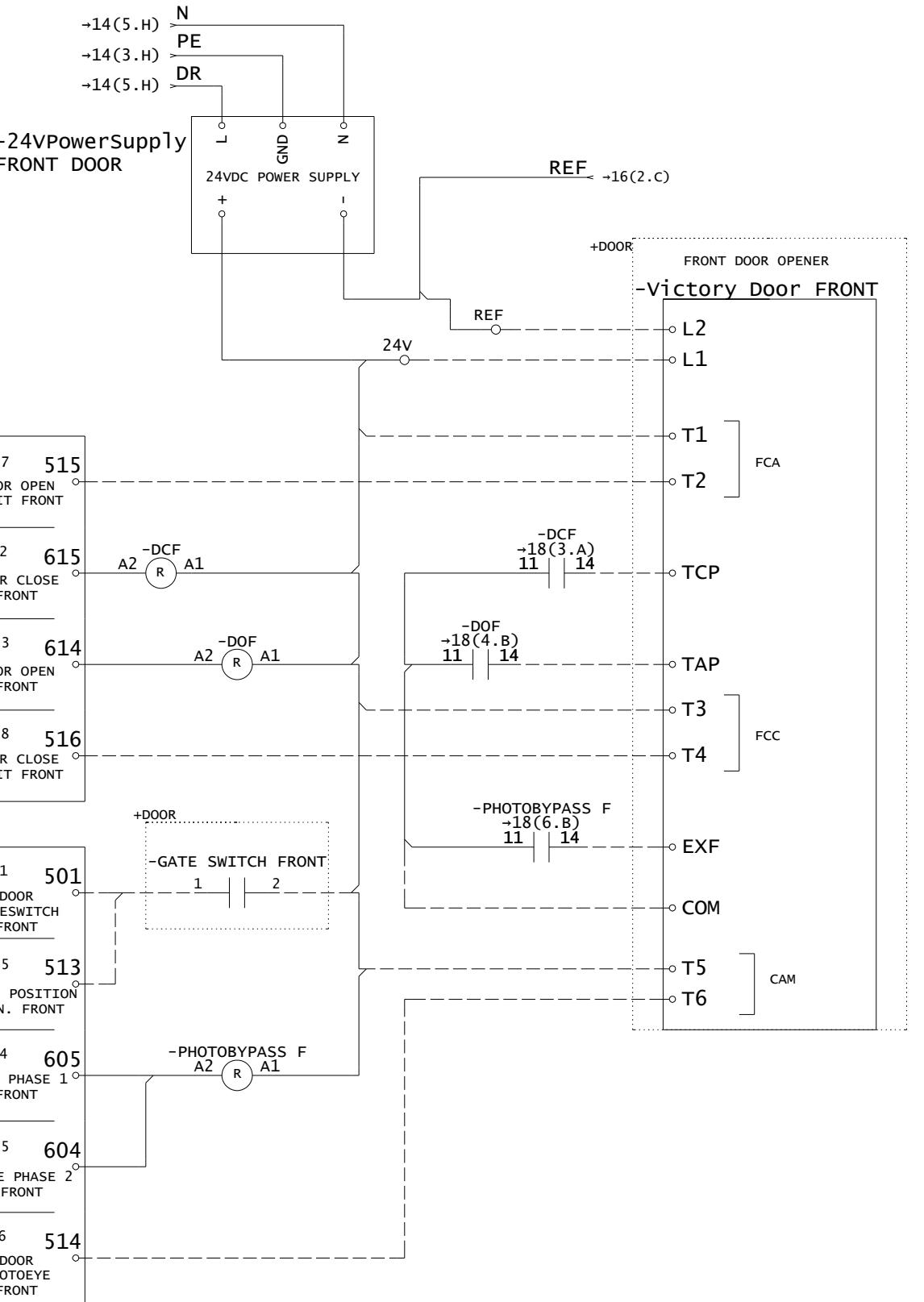
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+CTC

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CHANGE DATE

PRINT DATE
19.03.25





ENGINEERED BY:
Roy

JOB NO:
250214-001

JOB NAME:
The Angeline Bldg 1

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INSTALATION SITE
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+CTC

SHEET NO:
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CHANGE DATE

PRINT DATE
19.03.25

ENGINEERED BY:
Roy

JOB NO:
250214-001

JOB NAME:
The Angeline Bldg 1

CAR
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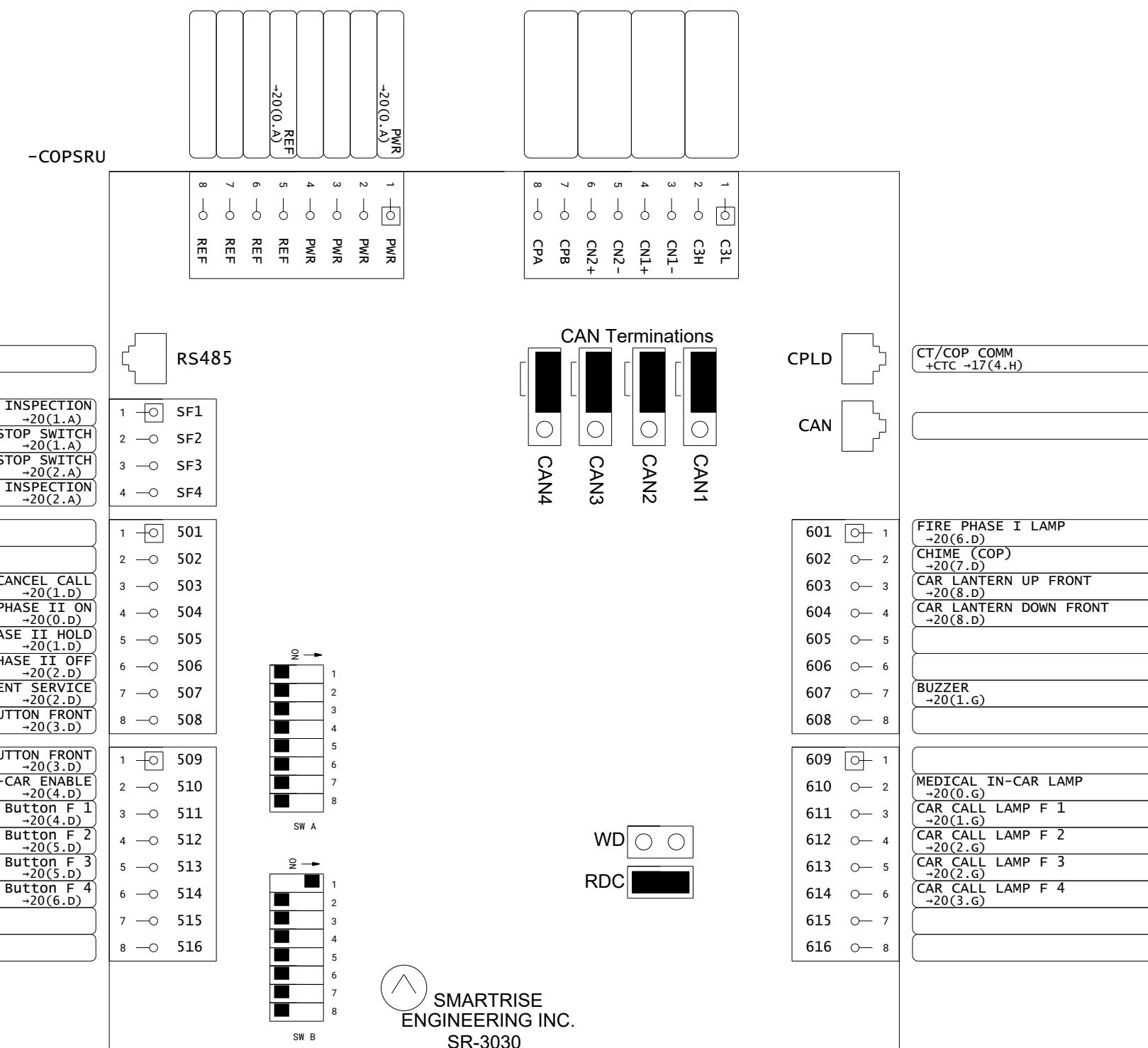
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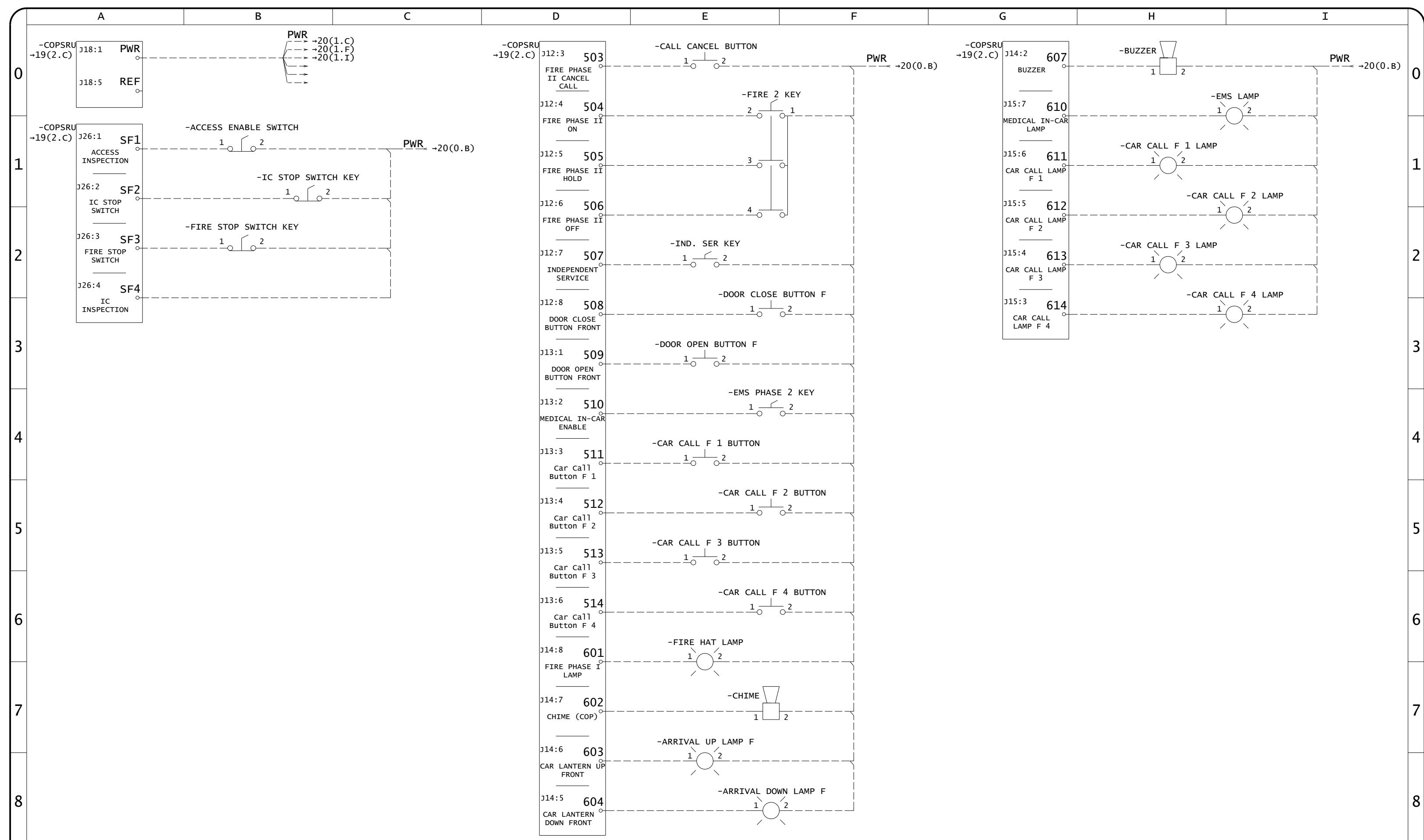
MOUNTING LOCATION
+COP

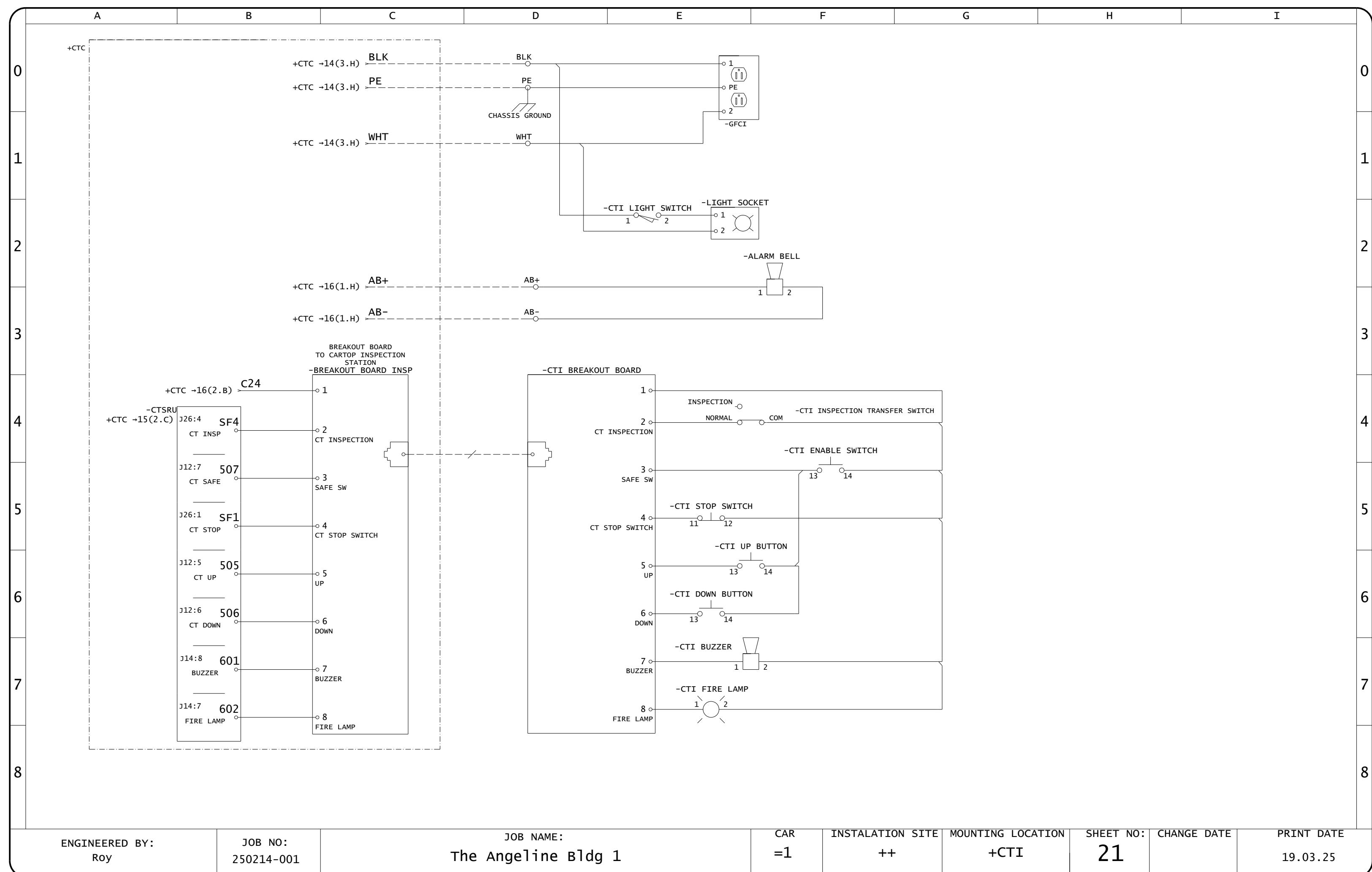
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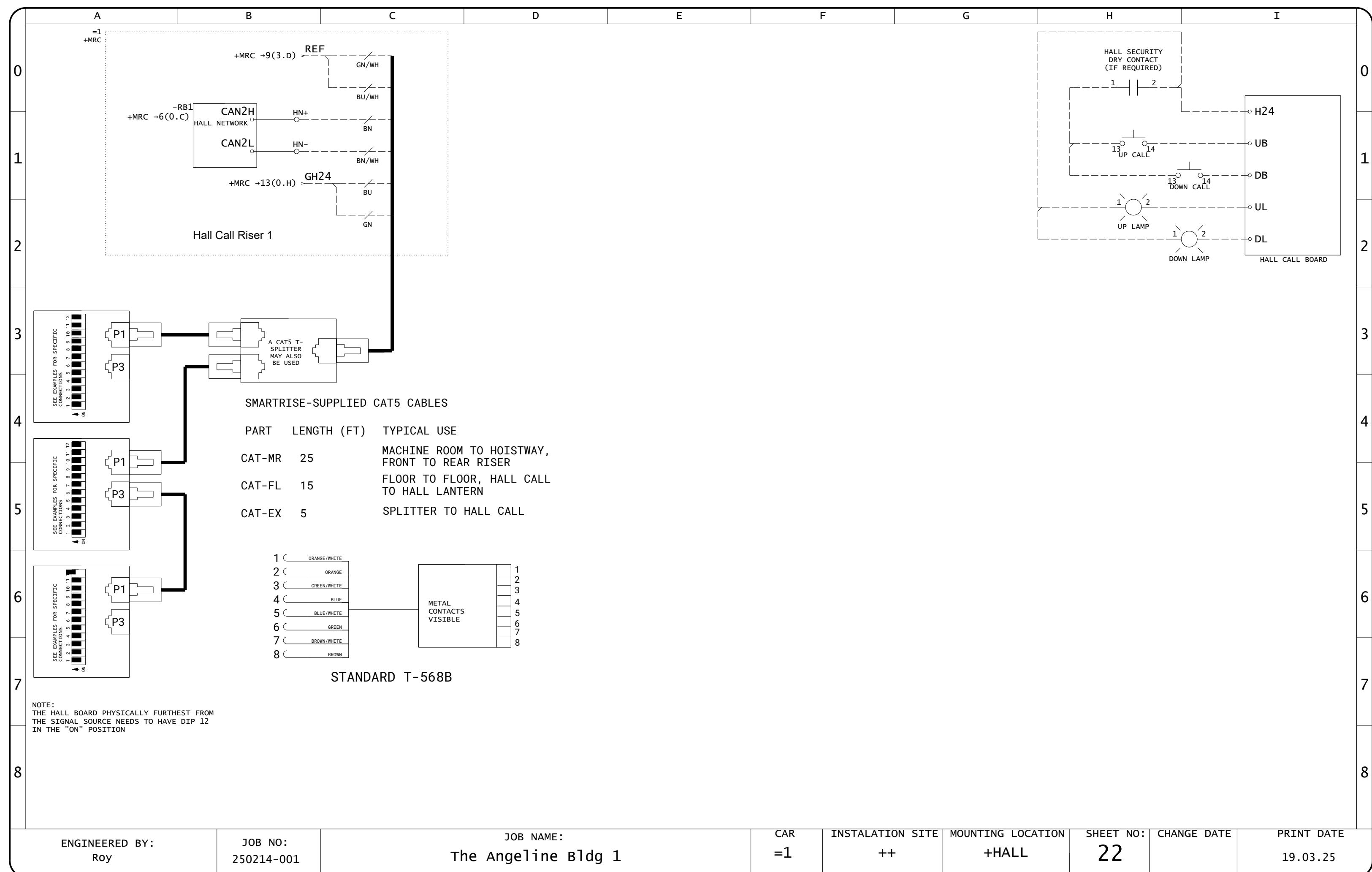
CHANGE DATE
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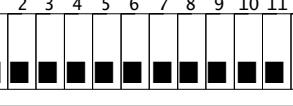
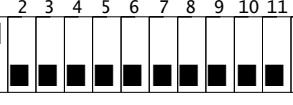
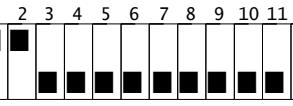
PRINT DATE









A	B	C	D	E	F	G	H	I		
LANDING	FRONT	REAR	PI	TYPE	DIP SWITCH SETTINGS					
0	1	X	1	HALL CALL Hall Riser 1				0		
1	2	X	2	HALL CALL Hall Riser 1				1		
2	3	X	3	HALL CALL Hall Riser 1				2		
3	4	X	4	HALL CALL Hall Riser 1				3		
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ENGINEERED BY:		JOB NO:		JOB NAME:	CAR	INSTALATION SITE	MOUNTING LOCATION	SHEET NO:	CHANGE DATE	PRINT DATE
Roy		250214-001		The Angeline Bldg 1	=1	++	+HALL	23		19.03.25