

MAIN PANEL:171-1081-504

COBALT TS2 TYPE 2 CONTROLLER WITH:

CONTROLLER PART # F51674

■ CONFIGURATION: L3604

■ SOFTWARE: EOS

■ ETHERNET MODULE

□ OVERLAPS

A =

B =

C =

D =

E =

F =

G =

H =

□ TELEMETRY MODULE

■ INTERNAL RS-232 TELEMETRY

BIU

BU()

CB()

C/C

CCA

CDP

CMA

CMB

CPO

CPP

DR

DS()

FL()

FR()

LS()

MC

MP

PAP

PSP

SA

TB-()

BUS INTERFACE UNIT

C/C, BIU ()

CIRCUIT BREAKER ()

CONNECTING CABLE

CONTROLLER CABLE "A"

C/C, DR POWER

MMU/CMU CABLE "A"

MMU/CMU CABLE "B"

C/C PRE-EMPT OUTPUTS

C/C PRE-EMPT POWER

DETECTOR RACK

DOOR SWITCH ()

FLASHER ()

FLASH XFER. RELAY

LOAD SWITCH

MERCURY CONTACTOR

MAIN PANEL

POWER-AUX PANEL

CAB. PWR. SUPPLY

SURGE ARRESTOR

TERM. BLOCK ()

FLASHER

PIN	FUNCTION
7	CIRCUIT #1
8	CIRCUIT #2
9	CHASSIS GND
10	AC COMMON
11	115 VAC
12	-----

LOAD SWITCH

PIN	FUNCTION
1	115 VAC
2	CHASSIS GND
3	RED/DW OUTPUT
4	-----
5	YEL OUTPUT
6	RED/DW INPUT
7	GRN/W OUTPUT
8	YEL INPUT
9	+24 VDC
10	GRN/W INPUT
11	AC COMMON
12	-----

①

2.2K

10W

3 USE ONLY COPPER CONDUCTORS FOR FIELD AND SERVICE CONNECTIONS.

2 CONNECT A.C. SERVICE TO TERMINAL BLOCK 501 (LINE), 502 (NEUTRAL) AND GB2 (EARTH) ON RIGHT SIDEWALL OF CABINET.

①INSTALL 2.2K, 10 WATT LOAD RESISTORS BETWEEN PINS 7 AND 11 ON LOAD SWITCHES 9, 10, 11 & 12.

NOTES: UNLESS SPECIFIED OTHERWISE

MAIN PANEL PLUG-IN REQUIREMENTS

BIU2 T&F	LS9 VEH 1 FYA	LS10 PED 7	LS11 VEH 5 FYA	LS12	LS13 BEACONS O'LAP A	LS14 BEACONS O'LAP B	LS15 BEACONS O'LAP C	LS16 BEACONS O'LAP D	
BIU1 T&F	LS1 VEH 1	LS2 VEH 2	LS3 VEH 3	LS4 VEH 4	LS5 VEH 5	LS6 VEH 6	LS7 VEH 7	LS8 VEH 8	FL1 □1CKT ■2CKT
FR1 L R V1 V5	FR2 L R V2 V6	FR3 L R V3 V7	FR4 L R V4 V8	FR5 L R A C	FR6 L R B D	K1	LS 24V CONT.		

■ DENOTES TYPE OF OPERATION AND/OR WHERE PLUG-IN IS REQUIRED. L = LEFT, R = RIGHT.

⊠ DENOTES WHERE "UNUSED RED" JUMPER PART NUMBER 32448G1 IS REQUIRED. INSTALL BETWEEN PINS 1 & 3 FOR LOAD SWITCH OR PINS 6 & 8 AND 5 & 7 FOR FLASH TRANSFER RELAY.

FLASH:

□ ø2&6 YELLOW, ALL OTHERS RED.

■ ALL RED.

■ RELAYS DE-ENERGIZED FOR FLASH.

□ RELAYS ENERGIZED FOR FLASH.

120V+	950	TB2-12(BLK)
120V-	951	TB2-10(WHT)
120V-	952	
2W	953	9G-A (RED-9C)
2DW	954	9R-A (BLK-9C)
4W	955	10G-A (BLU-9C)
4DW	956	10R-A (BRN-9C)
6W	957	11G-A (ORG-9C)
6DW	958	11R-A (YEL-9C)
8W	959	12G-A (PUR-9C)
8DW	960	12R-A (WHT-9C)
SPARE	961	
SPARE	962	
GRND	963	TB2-9 (GRN)
GRND	964	
PC-2	965	PC2-A (RED-4C)
PC-4	966	PC4-A (BLK-4C)
PC-6	967	PC6-A (GRN-4C)
PC-8	968	PC8-A (WHT-4C)
SPARE	969	

PEDESTRIAN PUSHBUTTON/SIGNAL INTERFACE

SHEET 1 OF 7

DRAWN CM TCC	1/10/2024
CABINET SIZE	77"
INSPECTED	
APPROVED	
CUSTOMER P.O.	0008128

ECONOLITE

CONTROL PRODUCTS INC.

TRAFFIC CONTROL CORPORATION

10435 ARGONNE WOODS DR.
WOODRIDGE, IL 60517

CABINET SPECIFICATION: TS2TYPE1 ANOKA COUNTY SPEC PLUG AND GO

CUSTOMER: ANOKA COUNTY

INTERSECTION: CSAH#1 ATCSAH#2

LOCATION:

SYSTEM:

CONTROLLER

FLASHER

SW.PACKS

INSTALLED BY

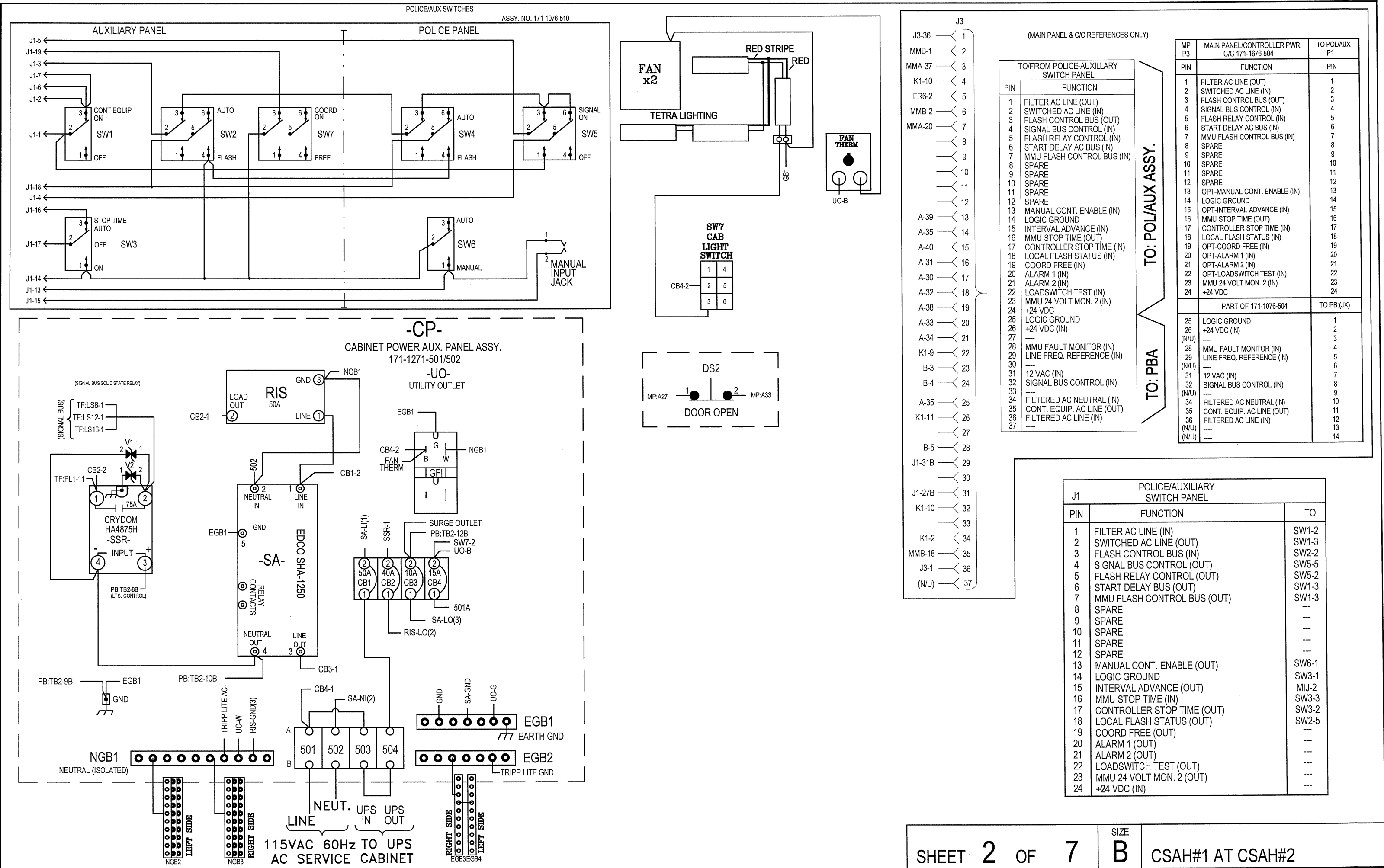
ANOKA COUNTY HIGHWAY DEPARTMENT

SALES ORDER NO.

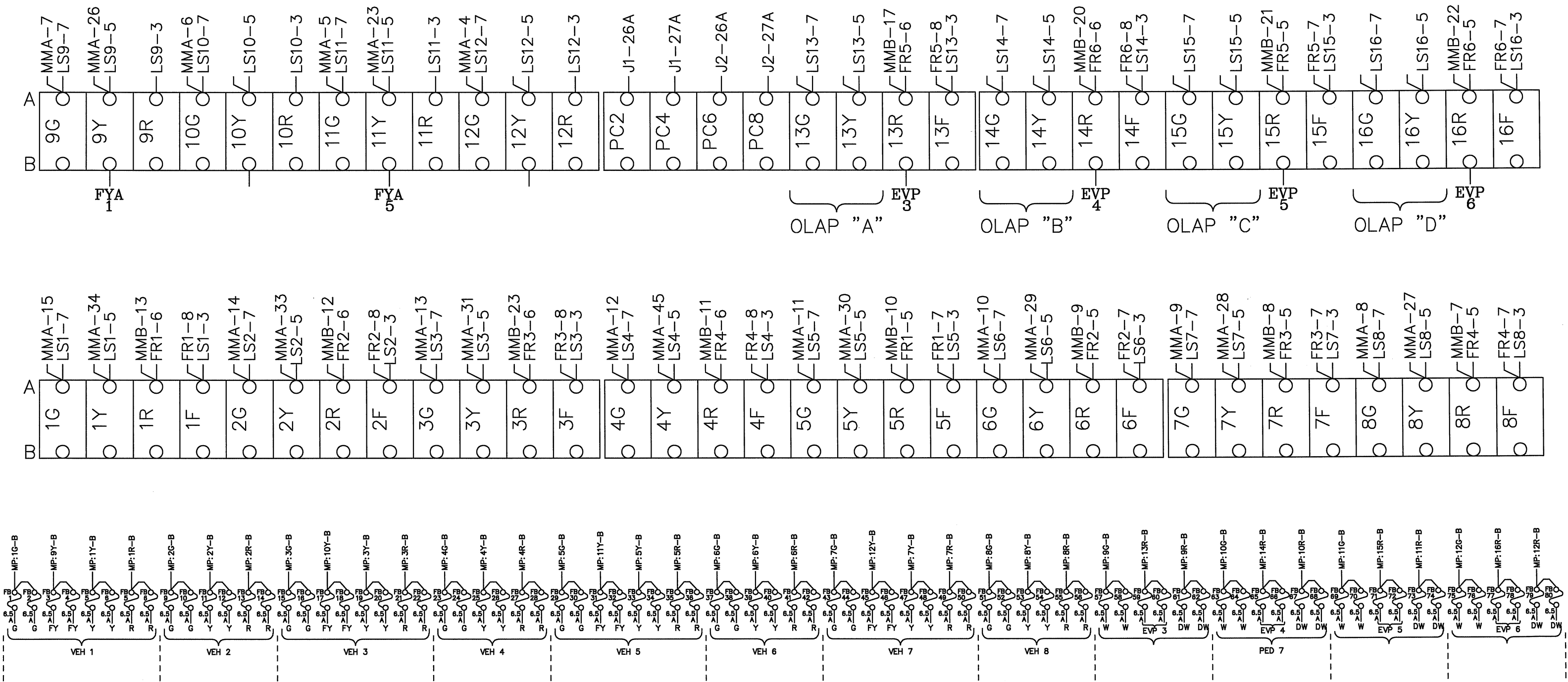
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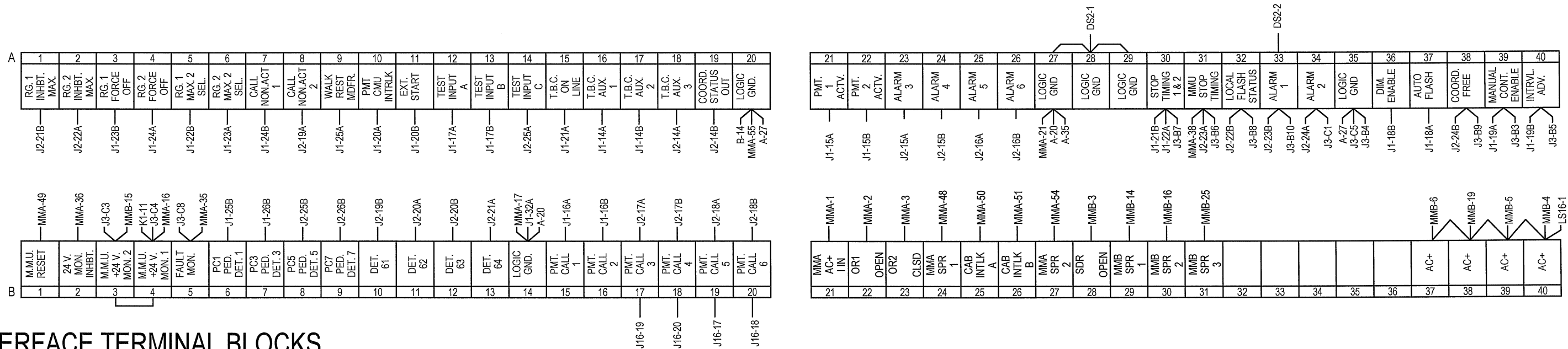
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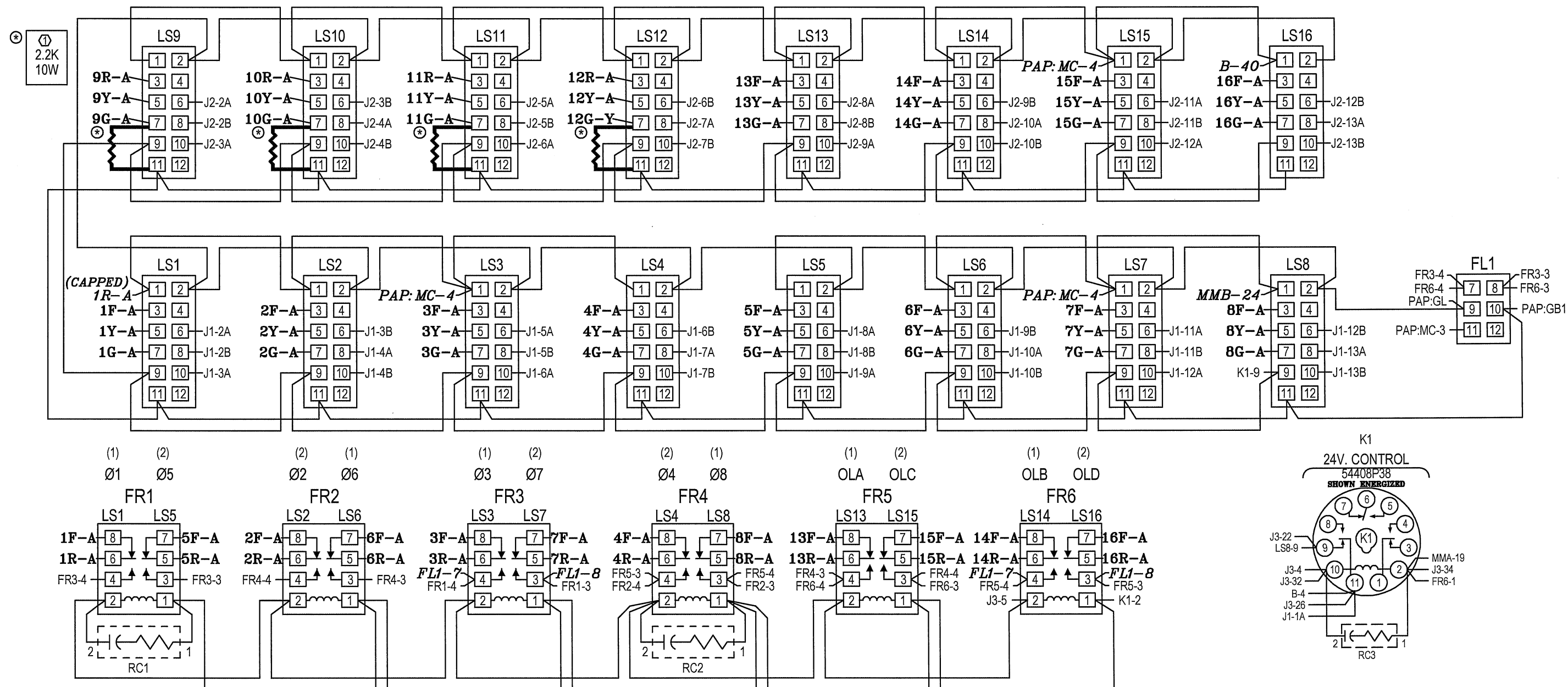


CONFIRMATION BEACONS	
EVP 3	=1-6
EVP 4	=2-5
EVP 5	= 8
EVP 6	= 4





INTERFACE TERMINAL BLOCKS



BIU #1		
PIN	FUNCTION	TO
1A	+24 VDC	K1-11
1B	+24 VDC	J2-1B
2A	LS1 RED	LS1-6
2B	LS1 YELLOW	LS1-8
3A	LS1 GREEN	LS1-10
3B	LS2 RED	LS2-6
4A	LS2 YELLOW	LS2-8
4B	LS2 GREEN	LS2-10
5A	LS3 RED	LS3-6
5B	LS3 YELLOW	LS3-8
6A	LS3 GREEN	LS3-10
6B	LS4 RED	LS4-6
7A	LS4 YELLOW	LS4-8
7B	LS4 GREEN	LS4-10
8A	LS5 RED	LS5-6
8B	LS5 YELLOW	LS5-8
9A	LS5 GREEN	LS5-10
9B	LS6 RED	LS6-6
10A	LS6 YELLOW	LS6-8
10B	LS6 GREEN	LS6-10
11A	LS7 RED	LS7-6
11B	LS7 YELLOW	LS7-8
12A	LS7 GREEN	LS7-10
12B	LS8 RED	LS8-6
13A	LS8 YELLOW	LS8-8
13B	LS8 GREEN	LS8-10
14A	TBC AUX 1	A-16
14B	TBC AUX 2	A-17
15A	PMT ACT 1	A-21
15B	PMT ACT 2	A-22
16A	PMT CALL 1	B-15
16B	PMT CALL 2	B-16
17A	TEST A	A-12
17B	TEST B	A-13
18A	AUTO FLASH	A-37
18B	DIM. ENABLE	A-36
19A	MANUAL CONT.	A-39
19B	INT. ADVANCE	A-40
20A	EXT. MIN. RECALL	A-10
20B	EXT. START	A-11
21A	TBC ONLINE	A-15
21B	STOP TIME (1)	A-30
22A	STOP TIME (2)	A-30
22B	MAX. 2 (1)	A-5
23A	MAX. 2 (2)	A-6
23B	FORCE OFF (1)	A-3
24A	FORCE OFF (2)	A-4
24B	CNA 1	A-7
25A	WALK REST MOD.	A-9
25B	PED. ISO. 1	B-6
26A	PED. ISO. 2	PC2-A
26B	PED. ISO. 3	B-7
27A	PED. ISO. 4	PC4-A
27B	PED. ISO. COMN.	J3-D1
28A	ADDR. SEL. 0	----
28B	ADDR. SEL. 1	----
29A	ADDR. SEL. 2	----
29B	ADDR. SEL. 3	----
30A	RESERVED	----
30B	RESERVED	----
31A	EARTH GND.	LS12-2
31B	LINE FREQ. REF.	J3-C9
32A	LOGIC GND.	B-14
32B	LOGIC GND.	J2-32A

BIU #2		
PIN	FUNCTION	TO
1A	+24 VDC	J2-1B
1B	+24 VDC	J1-1B
2A	LS9 RED	LS9-6
2B	LS9 YELLOW	LS9-8
3A	LS9 GREEN	LS9-10
3B	LS10 RED	LS10-6
4A	LS10 YELLOW	LS10-8
4B	LS10 GREEN	LS10-10
5A	LS11 RED	LS11-6
5B	LS11 YELLOW	LS11-8
6A	LS11 GREEN	LS11-10
6B	LS12 RED	LS12-6
7A	LS12 YELLOW	LS12-8
7B	LS12 GREEN	LS12-10
8A	LS13 RED	LS13-6
8B	LS13 YELLOW	LS13-8
9A	LS13 GREEN	LS13-10
9B	LS14 RED	LS14-6
10A	LS14 YELLOW	LS14-8
10B	LS14 GREEN	LS14-10
11A	LS15 RED	LS15-6
11B	LS15 YELLOW	LS15-8
12A	LS15 GREEN	LS15-10
12B	LS16-RED	LS16-6
13A	LS16-YELLOW	LS16-8
13B	LS16-GREEN	LS16-10
14A	TBC AUX 3	A-18
14B	COORD. STATUS	A-19
15A	ALARM 3	A-23
15B	ALARM 4	A-24
16A	ALARM 5	A-25
16B	ALARM 6	A-26
17A	PMT CALL 3	B-17
17B	PMT CALL 4	B-18
18A	PMT CALL 5	B-19
18B	PMT CALL 6	B-20
19A	CNA 2	A-8
19B	SPARE 1	B-10
20A	SPARE 2	B-11
20B	SPARE 3	B-12
21A	SPARE 4	B-13
21B	INHIBIT MAX (1)	A-1
22A	INHIBIT MAX (2)	A-2
22B	LOCAL FLASH	A-32
23A	MMU FLASH	A-31
23B	ALARM 1	A-33
24A	ALARM 2	A-34
24B	COORD FREE IN	A-38
25A	TEST C	A-14
25B	PED. ISO. 5	B-8
26A	PED. ISO. 6	PC6-A
26B	PED. ISO. 7	B-9
27A	PED. ISO. 8	PC8-A
27B	PED. ISO. COMN.	J1-27B
28A	ADDR. SEL. 0	J2-32A
28B	ADDR. SEL. 1	----
29A	ADDR. SEL. 2	----
29B	ADDR. SEL. 3	----
30A	RESERVED	----
30B	RESERVED	----
31A	EARTH GND.	J1-31A
31B	LINE FREQ. REF.	J1-31B
32A	LOGIC GND.	J1-32B
32B	LOGIC GND.	J2-32A

DETECTOR BIU	
PIN	FUNCTION
1A	+24 VDC
1B	+24 VDC
2A	
2B	
3A	
3B	
4A	
4B	
5A	
5B	
6A	
6B	
7A	
7B	
8A	
8B	
9A	
9B	
10A	CH. 1 CALL
10B	CH. 2 CALL
11A	CH. 3 CALL
11B	CH. 4 CALL
12A	CH. 5 CALL
12B	CH. 6 CALL
13A	CH. 7 CALL
13B	CH. 8 CALL
14A	CH. 9 CALL
14B	CH. 10 CALL
15A	CH. 11 CALL
15B	CH. 12 CALL
16A	CH. 13 CALL
16B	CH. 14 CALL
17A	CH. 15 CALL
17B	CH. 16 CALL
18A	CH. 1 FAULT STATUS
18B	CH. 2 FAULT STATUS
19A	CH. 3 FAULT STATUS
19B	CH. 4 FAULT STATUS
20A	CH. 5 FAULT STATUS
20B	CH. 6 FAULT STATUS
21A	CH. 7 FAULT STATUS
21B	CH. 8 FAULT STATUS
22A	CH. 9 FAULT STATUS
22B	CH. 10 FAULT STATUS
23A	CH. 11 FAULT STATUS
23B	CH. 12 FAULT STATUS
24A	CH. 13 FAULT STATUS
24B	CH. 14 FAULT STATUS
25A	CH. 15 FAULT STATUS
25B	CH. 16 FAULT STATUS
26A	
26B	
27A	
27B	
28A	ADDR. SEL. 0
28B	ADDR. SEL. 1
29A	ADDR. SEL. 2
29B	ADDR. SEL. 3
30A	
30B	
31A	EARTH GND.
31B	LINE FREQ. REF.
32A	LOGIC GND.
32B	LOGIC GND.

MAIN PANEL CONTROL POWER C/C 171-1676-504	
PIN	FUNCTION
1	LOGIC GROUND
2	+24 VDC (IN)
3	----
4	MMU FAULT MONITOR (IN)
5	LINE FREQ. REFERENCE (IN)
6	----
7	+12 VAC (IN)
8	SIGNAL BUS CONTROL (IN)
9	----
10	FILTERED AC NEUTRAL (IN)
11	CONT. EQUIP. AC LINE (OUT)
12	FILTERED AC LINE (IN)
13	----
14	----

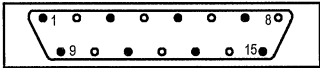
CONTROLLER POWER (CCA2) C/C 171-1676-503			
WIRE	PIN	SIGNAL	TO
1	A	FAULT MONITOR	PB-4
2	U	AC NEUTRAL	PB-10
3	V	EARTH GROUND	PB-9
4	W	LOGIC GROUND	PB-1
5	P	AC LINE	PB-11
6	SHL	EARTH GROUND	CCA2-V

TYPE 1 CONTROLLER POWER C/C 171-1676-502		
PIN	FUNCTION	TO
A	AC NEUTRAL	PB-10
B	----	
C	AC LINE	PB-11
D	----	
E	----	
F	FAULT MON.	PB-4
G	LOGIC GND.	PB-1
H	EARTH GND.	PB-9
I	----	
J	----	
SHL	EARTH GND.	PB-6

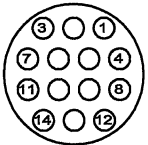
CABINET POWER SUPPLY C/C 171-1676-511		
PIN	FUNCTION	TO
A	AC NEUTRAL	PB-10
B	LINE FREQUENCY REF.	PB-5
C	AC LINE	PB-11
D	+12 VDC	PB-3
E	+24 VDC	PB-2
F	RESERVED	
G	LOGIC GND.	PB-1
H	EARTH GND.	PB-9
I	+12 VAC	PB-7
J	RESERVED	
SHL	EARTH GND.	PIN H

CONTROLLER PORT 1 CONNECTOR			
PIN	SIGNAL	TO	FUNCTION
1	TWISTED PAIR 1+	SDLC-1	CONT TXD+
2	LOGIC GND.	----	
3	TWISTED PAIR 2+	SDLC-4	CONT TXC+
4	LOGIC GND.	----	
5	TWISTED PAIR 3+	SDLC-7	CONT RXD+
6	LOGIC GND.	----	
7	TWISTED PAIR 4+	SDLC-10	CONT RXC+
8	LOGIC GND.	----	
9	TWISTED PAIR 1-	SDLC-2	CONT TXD-
10	PORT 1 DISABLE	----	
11	TWISTED PAIR 2-	SDLC-5	CONT TXC-
12	EARTH GND.	SHIELD WIRE	
13	TWISTED PAIR 3-	SDLC-8	CONT RXD-
14	RESERVED	----	
15	TWISTED PAIR 4-	SDLC-11	CONT RXC-

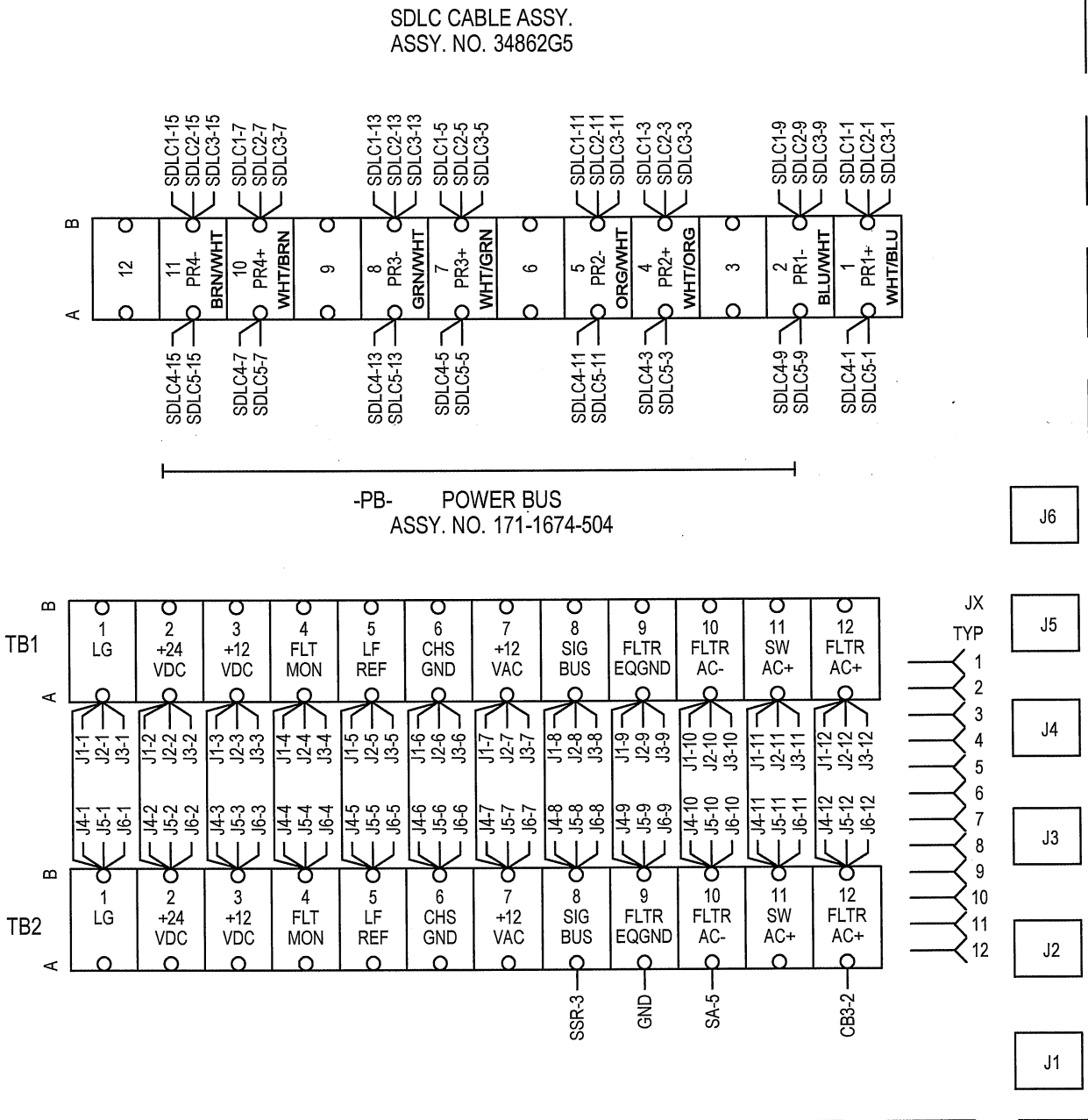
MMU & BIU PORT 1 CONNECTOR			
PIN	SIGNAL	TO	FUNCTION
1	TWISTED PAIR 1+	SDLC-1	BIU RXD+
2	LOGIC GND.	----	
3	TWISTED PAIR 2+	SDLC-4	BIU RXC+
4	LOGIC GND.	----	
5	TWISTED PAIR 3+	SDLC-7	BIU TXD+
6	LOGIC GND.	----	
7	TWISTED PAIR 4+	SDLC-10	BIU TXC+
8	LOGIC GND.	----	
9	TWISTED PAIR 1-	SDLC-2	BIU RXD-
10	PORT 1 DISABLE	----	
11	TWISTED PAIR 2-	SDLC-5	BIU RXC-
12	EARTH GND.	SHIELD WIRE	
13	TWISTED PAIR 3-	SDLC-8	BIU TXD-
14	RESERVED	----	
15	TWISTED PAIR 4-	SDLC-11	BIU TXC-



FRONT VIEW OF BU1 - BU5



FRONT VIEW OF J1-J6



BIU AND CONNECTING CABLES

WIRE LIST FOR NEMA MALFUNCTION MANAGEMENT UNIT																																																									
CONNECTOR "A" (MMA)					CONNECTOR "B" (MMB)																																																				
PIN	WIRE	MON. FUNCTION	TO	SIG. FUNCTION	PIN	WIRE	MON. FUNCTION	TO	SIG. FUNCTION																																																
A	A-1	AC+ I INPUT	B21		A	B-1	AC+ II INPUT	J3-A2	MMU POWER																																																
B	A-2	OUT RLY 1 OPEN	B22		B	B-2	S. DLY RLY COMM.	J3-A6	MMU POWER																																																
C	A-3	OUT RLY 2 CLSD	B23		C	B-3	S. DLY RLY OPEN	B28																																																	
D	A-4	CH. 12 GREEN	12G-A	^8 WLK	D	B-4	CH. 12 RED	B40																																																	
E	A-5	CH. 11 GREEN	11G-A	^6 WLK	E	B-5	CH. 11 RED	B39																																																	
F	A-6	CH. 10 GREEN	10G-A	^4 WLK	F	B-6	CH. 9 RED	B37																																																	
G	A-7	CH. 9 GREEN	9G-A	^2 WLK	G	B-7	CH. 8 RED	8R-A	^8 RED																																																
H	A-8	CH. 8 GREEN	8G-A	^8 GRN	H	B-8	CH. 7 RED	7R-A	^7 RED																																																
J	A-9	CH. 7 GREEN	7G-A	^7 GRN	J	B-9	CH. 6 RED	6R-A	^6 RED																																																
K	A-10	CH. 6 GREEN	6G-A	^6 GRN	K	B-10	CH. 5 RED	5R-A	^5 RED																																																
L	A-11	CH. 5 GREEN	5G-A	^5 GRN	L	B-11	CH. 4 RED	4R-A	^4 RED																																																
M	A-12	CH. 4 GREEN	4G-A	^4 GRN	M	B-12	CH. 2 RED	2R-A	^2 RED																																																
N	A-13	CH. 3 GREEN	3G-A	^3 GRN	N	B-13	CH. 1 RED	1R-A	^1 RED																																																
P	A-14	CH. 2 GREEN	2G-A	^2 GRN	P	B-14	(SPARE 1)	B29																																																	
R	A-15	CH. 1 GREEN	1G-A	^1 GRN	R	B-15	+24V MONITOR II	B-3	+24V MON. II																																																
S	A-16	+24V MON. I	B-4	LS +24V MON.	S	B-16	(SPARE 2)	B30																																																	
T	A-17	LOGIC GND	B-14	LOGIC GND	T	B-17	CH. 13 RED	13R-A	OLA RED																																																
U	A-18	CHASSIS GND	LS7-2	EARTH GND.	U	B-18	S. DLY RLY CLSD	J3-D5	CONT. POWER																																																
V	A-19	AC- (COMMON)	K1-2	AC NEUTRAL	V	B-19	CH. 10 RED	B38																																																	
W	A-20	OUT RLY 1 COM.	J3-A7	SIG BUS CONT	W	B-20	CH. 14 RED	14R-A	OLB RED																																																
X	A-21	OUT RLY 2 COM.	A-27	LOGIC GND	X	B-21	CH. 15 RED	15R-A	OLC RED																																																
Y	A-22	CH. 12 YELLOW	12Y-A	-T-	Y	B-22	CH. 16 RED	16R-A	OLD RED																																																
Z	A-23	CH. 11 YELLOW	11Y-A	-T-	Z	B-23	CH. 3 RED	3R-A	^3 RED																																																
a	A-24	CH. 10 WALK	----		a	B-24	RED ENABLE	LS8-1	SIG BUS CON.																																																
b	A-25	CH. 10 YELLOW	10Y-A	-T-	b	B-25	(SPARE 3)	B31																																																	
c	A-26	CH. 9 YELLOW	9Y-A	-T-	c	B-26	LOCAL FLASH IN	A32	POL/AX FLSH																																																
d	A-27	CH. 8 YELLOW	8Y-A	^8 YEL		B-27	SHELL GROUND	LS6-2	EARTH GND.																																																
e	A-28	CH. 7 YELLOW	7Y-A	^7 YEL	NOTES FOR 16 CHANNEL M.M.U. (1) RELAY CONTACT POSITIONS SPECIFIED ARE FOR NON-CONFLICT MODE. (2) TO PROGRAM MMU, SOLDER JUMPERS IN PROGRAMMING CARD FOR ALL PERMISSABLE PHASE MOVEMENTS, MINIMUM CHANGE DIS- ABLE FOR ALL PEDESTRIAN CHANNELS, AND MIN. FLASH, VOLTAGE MON., AND 24V. MON. LATCH OPTIONS AS DESIRED. M.M.U. CHANNEL ASSIGNMENTS <table><tr><td>CH. 1 =</td><td>L/S 1 =</td><td>^1 VEH.</td></tr><tr><td>CH. 2 =</td><td>L/S 2 =</td><td>^2 VEH.</td></tr><tr><td>CH. 3 =</td><td>L/S 3 =</td><td>^3 VEH.</td></tr><tr><td>CH. 4 =</td><td>L/S 4 =</td><td>^4 VEH.</td></tr><tr><td>CH. 5 =</td><td>L/S 5 =</td><td>^5 VEH.</td></tr><tr><td>CH. 6 =</td><td>L/S 6 =</td><td>^6 VEH.</td></tr><tr><td>CH. 7 =</td><td>L/S 7 =</td><td>^7 VEH.</td></tr><tr><td>CH. 8 =</td><td>L/S 8 =</td><td>^8 VEH.</td></tr><tr><td>CH. 9 =</td><td>L/S 9 =</td><td>^2 PED.</td></tr><tr><td>CH. 10 =</td><td>L/S 10 =</td><td>^4 PED.</td></tr><tr><td>CH. 11 =</td><td>L/S 11 =</td><td>^6 PED.</td></tr><tr><td>CH. 12 =</td><td>L/S 12 =</td><td>^8 PED.</td></tr><tr><td>CH. 13 =</td><td>L/S 13 =</td><td>O'LAP A VEH.</td></tr><tr><td>CH. 14 =</td><td>L/S 14 =</td><td>O'LAP B VEH.</td></tr><tr><td>CH. 15 =</td><td>L/S 15 =</td><td>O'LAP C VEH.</td></tr><tr><td>CH. 16 =</td><td>L/S 16 =</td><td>O'LAP D VEH.</td></tr></table>					CH. 1 =	L/S 1 =	^1 VEH.	CH. 2 =	L/S 2 =	^2 VEH.	CH. 3 =	L/S 3 =	^3 VEH.	CH. 4 =	L/S 4 =	^4 VEH.	CH. 5 =	L/S 5 =	^5 VEH.	CH. 6 =	L/S 6 =	^6 VEH.	CH. 7 =	L/S 7 =	^7 VEH.	CH. 8 =	L/S 8 =	^8 VEH.	CH. 9 =	L/S 9 =	^2 PED.	CH. 10 =	L/S 10 =	^4 PED.	CH. 11 =	L/S 11 =	^6 PED.	CH. 12 =	L/S 12 =	^8 PED.	CH. 13 =	L/S 13 =	O'LAP A VEH.	CH. 14 =	L/S 14 =	O'LAP B VEH.	CH. 15 =	L/S 15 =	O'LAP C VEH.	CH. 16 =	L/S 16 =	O'LAP D VEH.
CH. 1 =	L/S 1 =	^1 VEH.																																																							
CH. 2 =	L/S 2 =	^2 VEH.																																																							
CH. 3 =	L/S 3 =	^3 VEH.																																																							
CH. 4 =	L/S 4 =	^4 VEH.																																																							
CH. 5 =	L/S 5 =	^5 VEH.																																																							
CH. 6 =	L/S 6 =	^6 VEH.																																																							
CH. 7 =	L/S 7 =	^7 VEH.																																																							
CH. 8 =	L/S 8 =	^8 VEH.																																																							
CH. 9 =	L/S 9 =	^2 PED.																																																							
CH. 10 =	L/S 10 =	^4 PED.																																																							
CH. 11 =	L/S 11 =	^6 PED.																																																							
CH. 12 =	L/S 12 =	^8 PED.																																																							
CH. 13 =	L/S 13 =	O'LAP A VEH.																																																							
CH. 14 =	L/S 14 =	O'LAP B VEH.																																																							
CH. 15 =	L/S 15 =	O'LAP C VEH.																																																							
CH. 16 =	L/S 16 =	O'LAP D VEH.																																																							
f	A-29	CH. 6 YELLOW	6Y-A	^6 YEL																																																					
g	A-30	CH. 5 YELLOW	5Y-A	^5 YEL																																																					
h	A-31	CH. 3 YELLOW	3Y-A	^3 YEL																																																					
i	A-32	CH. 15 GREEN	15G-A	OLC GRN																																																					
j	A-33	CH. 2 YELLOW	2Y-A	^2 YEL																																																					
k	A-34	CH. 1 YELLOW	1Y-A	^1 YEL																																																					
m	A-35	CONT. VOLT. MON.	B-5	VOLT. MON.																																																					
n	A-36	+24V MON. INH.	B-2																																																						
p	A-37	OUT RLY 1 CLSD	J3-A3																																																						
q	A-38	OUT RLY 2 OPEN	A-31	STOP TIME																																																					
r	A-39	CH. 12 WALK	----																																																						
s	A-40	CH. 11 WALK	----																																																						
t	A-41	CH. 9 WALK	----																																																						
u	A-42	CH. 16 YELLOW	16Y-A	OLD YEL																																																					
v	A-43	CH. 15 YELLOW	15Y-A	OLC YEL																																																					
w	A-44	CH. 13 YELLOW	13Y-A	OLA YEL																																																					
x	A-45	CH. 4 YELLOW	4Y-A	^4 YEL																																																					
y	A-46	CH. 14 GREEN	14G-A	OLB GRN																																																					
z	A-47	CH. 13 GREEN	13G-A	OLA GRN																																																					
AA	A-48	(SPARE 1)	B24																																																						
BB	A-49	RESET	B-1																																																						
CC	A-50	CAB. INTLK A	B25																																																						
DD	A-51	CAB. INTLK B	B26																																																						
EE	A-52	CH. 14 YELLOW	14Y-A	OLB YEL																																																					
FF	A-53	CH. 16 GREEN	16G-A	OLD GRN																																																					
GG	A-54	(SPARE 2)	B27																																																						
HH	A-55	TYPE SELECT	A-20	MMU/CMU SEL.																																																					
	A-56	SHELL GND	LS15-2	EARTH GND.																																																					

MMU PROGRAM CARD

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

3 4 5 6 7 8 9 10 11 12 13 14 15 16

4 5 6 7 8 9 10 11 12 13 14 15 16

5 6 7 8 9 10 11 12 13 14 15 16

6 7 8 9 10 11 12 13 14 15 16

7 8 9 10 11 12 13 14 15 16

8 9 10 11 12 13 14 15 16

9 10 11 12 13 14 15 16

10 11 12 13 14 15 16

11 12 13 14 15 16

12 13 14 15 16

13 14 15 16

14 15 16

15 16

RENO A&E

MIN YELLOW CHANGE DISABLE

1 2 3 4 5 6 7 8

9 10 11 12 13 14 15 16

MIN. FLASH TIME

8 4 2 1

24V LATCH ENA.

CVM LATCH ENA.

M.M.U. C/C'S AND PROGRAM CARD

DETECTOR RACK 34030G1 #1

B.I.U.	L3	L1	L7	L5	L11	L9	L15	L13	PMT 5	PMT 3	PGM. CARD
	5-1	1-1	2-3	2-1	2-7	2-5	6-3	6-1	☐ 2CH OPTICOM	☐ 2CH OPTICOM	NOT USED
	☐ 2CH	☐ 2CH	☐ 2CH	☐ 2CH	☐ 2CH	☐ 2CH	☐ 2CH	☐ 2CH	CH. C CH. D	CH. A CH. B	
ADDRESS BIT JUMPERS JP37 JP36 JP35 JP34 (ADDRESS 1)	5-2	1-2	2-4	2-2		2-6	6-4	6-2			
	L4	L2	L8	L6	L12	L10	L16	L14	PMT 6	PMT 4	

☒ J13
171-1083-515
DC POWER

☐ J16
C/C 33284G8
EXP. OUTPUTS

☐ J14
C/C 33284G2
LPS 1-8

☐ J18
C/C 33284G9
SYS. OUTPUTS

☐ J15
C/C 33284G3
LPS 9-16

☒ J17
171-1083-515
AC POWER

☐ J19
C/C 33284G17
PGM. CARD

DETECTOR RACK 34030G1 #2

B.I.U.	L3	L1	L7	L5	L11	L9	L15	L13			PGM. CARD
	6-7	6-5		7-1	8-3	8-1		8-5	NOT USED	NOT USED	NOT USED
	☐ 2CH	☐ 2CH	☐ 2CH	☐ 2CH	☐ 2CH	☐ 2CH	☐ 2CH	☐ 2CH			
ADDRESS BIT JUMPERS JP37 JP36 JP35 JP34 (ADDRESS 2)		6-6		7-2	8-4	8-2					
	L4	L2	L8	L6	L12	L10	L16	L14			

☒ J13
171-1083-515
DC POWER

☐ J16
C/C 33284G8
EXP. OUTPUTS

☐ J14
C/C 33284G2
LPS 1-8

☐ J18
C/C 33284G9
SYS. OUTPUTS

☐ J15
C/C 33284G3
LPS 9-16

☒ J17
171-1083-515
AC POWER

☐ J19
C/C 33284G17
PGM. CARD

