FIELD INPUT/OUTPUT TERMINALS

FIELD INPUT TERMINALS

TB-2	*loops*
1 & 2	1I1U
3 & 4	1I1L
5 & 6	2I2U
7 & 8	2I2L
9 & 10	2I3U
11 & 12	2I3L

TB-3	*loops*
1 & 2	5J1U
3 & 4	5J1L
5 & 6	6J2U
7 & 8	6J2L
9 & 10	6J3U
11 & 12	*7J3L*

TB-8	*peds*
1	MANUAL
2	SP1
3	COM
4	2-PPB
5	*5-PPB*
6	2-PPB & *5-PPB* COM
7	6-PPB
8	*1-PPB*
9	6-PPB & *1-PPB* COM

TB-4	*loops*
1 & 2	2I4U
3 & 4	2I4L
5 & 6	3I5U
7 & 8	3I5L
9 & 10	*5I6U*
11 & 12	*5I6L*

TB-5	*loops*
1 & 2	6J4U
3 & 4	6J4L
5 & 6	7J5U
7 & 8	7J5L
9 & 10	*7J6U* **
11 & 12	*7J6L* **

TB-9	*emergency pre-emp.*
1-SP2	
SP3 2-EV A & C PWR.	→ ORN Wires to EV A & C
COM 3-EV B & D Pwr.	→ ORN Wires to EV B & D
4-EVA Actuation	→ YEL Wire to EV A
5-EVC Actuation	→ YEL Wire to EV C
6-EV A & C COM	→ Blu+shields to EV A & C
7-EVB Actuation	→ YEL Wire to EV B
8-EVD Actuation	→ YEL Wire to EV D
9-EV B & D COM	→ Blu+shields to EV B & D
10-RR1	
11-RR2	
12-COM	

TB-6	*loops*
1 & 2	4I7U
3 & 4	4I7L
5 & 6	*5I8U*
7 & 8	*5I8L*
9 & 10	1I9U
11 & 12	*1I9L*

TB-7	*loops*
1 & 2	*3J7U*
3 & 4	*3J7L*
5 & 6	8J8U
7 & 8	8J8L
9 & 10	5J9U
11 & 12	*5J9L*

**J11-J to J12-E / J11-K to J13-E for opto probe pwr.

FIELD OUTPUT TERMINALS

101	Ø4 - RED	113	Ø2P - DON'T WALK	125	Ø1 - RED
102	Ø4 - YELLOW	114		126	Ø1 - YELLOW
103	Ø4 - GREEN	115	Ø2P - WALK	127	Ø1 - GREEN
104	*Ø5P* - DON'T WALK	116	Ø3 - RED	128	Ø2 - RED
105		117	Ø3 - YELLOW	129	Ø2 - YELLOW
106	*Ø5P* - WALK	118	Ø3 - GREEN	130	Ø2 - GREEN
107	Ø8 - RED	119	Ø6P - DON'T WALK	131	Ø5 - RED
108	Ø8 - YELLOW	120		132	Ø5 - YELLOW
109	Ø8 - GREEN	121	Ø6P - WALK	133	Ø5 - GREEN
110	*Ø1P* - DON'T WALK	122	Ø7 - RED	134	Ø6 - RED
111		123	Ø7 - YELLOW	135	Ø6 - YELLOW
112	*Ø1P* - WALK	124	Ø7 - GREEN	136	Ø6 - GREEN

AUX. FIELD OUTPUT TERMINALS

A101	OVL-B RED (A5)	A111		A121	OVL-C RED (A1)
A102	OVL-B YELLOW	A112		A122	OVL-C YELLOW
A103	OVL-B GREEN	A113		A123	OVL-C GREEN
A104		A114	OVL-A RED (A4)	A124	OVL-D RED (A2)
A105		A115	OVL-A YELLOW	A125	OVL-D YELLOW
A106		A116	OVL-A GREEN	A126	OVL-D GREEN

SCL	87	6.901	EAST TAYLOR ST. & RTE. 87 RAMPS	SJs
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INPUT FILE - 332 CABINET

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1	2	3	4	5	6	7	8	9	10	11	12	13	14
1I1U *RL,EX* 1I10U TB2 1,2 F-C1/56 D E	**2I2U** EX,CT 2I11U TB2 5,6 F-C1/39 D E	**2I3U** EX,CT 2I13U TB2 9,10 F-C1/63 D E	**2I4U** *EX* 2I15U TB4 1,2 F-C1/47 D E	**3I5U** EX,CT 3I16U TB4 5,6 F-C1/58 D E	***5I6U*** EX,CT 4I17U TB4 9,10 F-C1/41 D E	**4I7U** EX,CT 4I19U TB6 1,2 F-C1/65 D E	***5I8U*** *CL,EX* 4I1BU TB6 5,6 F-C1/49 D E	**1I9U** EX,CT 1I1CU TB6 9,10 F-C1/60 D E	F D E	**MANUAL** TB8 1,3 F-C1/80 D E	**2-PPB** 2I1E TB8 4,6 F-C1-67 D E	**6-PPB** 6I2E TB8 7,9 F-C1/68 D E	**FLASH SENSE** TB8 10,12 F-C1/81 D E
1I1L *RL,EX* 1I10L TB2 3,4 W-C1/56 J K	**2I2L** EX,CT 2I12L TB2 7,8 W-C1/43 J K	**2I3L** EX 2I14L TB2 11,12 W-C1/76 J K	**2I4L** *EX* 2I15L TB4 3,4 W-C1/47 J K	**3I5L** EX,CT 3I16L TB4 7,8 W-C1/58 J K	***5I6L*** EX,CT 4I18L TB4 11,12 W-C1/45 J K	**4I7L** EX 4I1AL TB6 3,4 W-C1/78 J K	***5I8L*** *CL,EX* 4I1BL TB6 7,8 W-C1/49 J K	***1I9L*** EX,CT 3I1DL TB6 11,12 W-C1/62 J K	W J K	**SPARE 1** TB8 2,3 W-C1/53 J K	***5-PPB*** 4I1F TB8 5,6 W-C1/69 J K	***1-PPB*** 8I2F TB8 8,9 W-C1/70 J K	**STOP TIME** TB8 11,12 W-C1/82 J K
5J1U EX,CT 5J20U TB3 1,2 F-C1/55 D E	**6J2U** EX,CT 6J21U TB3 5,6 F-C1/40 D E	**6J3U** EX,CT 6J23U TB3 9,10 F-C1/64 D E	**6J4U** *EX* 6J25U TB5 1,2 F-C1/48 D E	**7J5U** EX,CT 7J26U TB5 5,6 F-C1/57 D E	***7J6U*** EX,CT 8J27U TB5 9,10 F-C1/42 D E	***3J7U*** *EX,CT,RL* 8J29U TB7 1,2 F-C1/66 D E	**8J8U** CL,T3 8J2BU TB7 5,6 F-C1/50 D E	**5J9U** EX,CT 5J2CU TB7 9,10 F-C1/59 D E	F D E	**SPARE 2** TB9 1,3 F-C1/54 D E	**EVA PREMT Ø2 & Ø5** TB9 4,2,6 D-Yellow E-Orange K-Blu+Shl	**EVB PREMT Ø4 & Ø7** TB9 7,2,9 D-Yellow E-Orange K-Blu+Shl	**RR1 PREMT** ϕ2 & ϕ5 TB9 10,12 F-C1/51 D E
5J1L EX,CT 5J20L TB3 3,4 W-C1/55 J K	**6J2L** EX,CT 6J22L TB3 7,8 W-C1/44 J K	***7J3L*** EX 6J24L TB3 11,12 W-C1/77 J K	**6J4L** *EX* 6J25L TB5 3,4 W-C1/48 J K	**7J5L** EX,CT 7J26L TB5 7,8 W-C1/57 J K	***7J6L*** *EX,CT,RL* 8J28L TB5 11,12 W-C1/46 J K	***3J7L*** *EX,CT,RL* 8J2AL TB7 3,4 W-C1/79 J K	**8J8L** CL,T3 8J2BL TB7 7,8 W-C1/50 J K	***5J9L*** EX,CT 7J2DL TB7 11,12 W-C1/61 J K	W J K	**SPARE 3** TB9 2,3 W-C1/75 J K	**EVC PREMT Ø6 & Ø1** TB9 5,2,6 J-Yellow E-Orange K-Blu+Shl	**EVD PREMT Ø8 & Ø3** TB9 8,3,9 J-Yellow E-Orange K-Blu+Shl	**RR2 PREMT** ϕ4 & ϕ7 TB9 11,12 W-C1/52 J K

OUTPUT FILE

Ø1	**Ø2**	**Ø2P**	**Ø3**	**Ø4**	***Ø5P***
R-125 C1/16	R-128 C1/12	R-113 C1/10	R-116 C1/7	R-101 C1/4	R-104 C1/2
Y-126 C1/17	Y-129 C1/13	Y-114 C1/35	Y-117 C1/8	Y-102 C1/5	Y-105 C1/37
G-127 C1/18	G-130 C1/15	G-115 C1/11	G-118 C1/9	G-103 C1/6	G-106 C1/3
Ø5	**Ø6**	**Ø6P**	**Ø7**	**Ø8**	***Ø1P***
R-131 C1/32	R-134 C1/29	R-119 C1/27	R-122 C1/24	R-107 C1/21	R-110 C1/19
Y-132 C1/33	Y-135 C1/30	Y-120 C1/36	Y-123 C1/25	Y-108 C1/22	Y-111 C1/38
G-133 C1/34	G-136 C1/31	G-121 C1/28	G-124 C1/26	G-109 C1/23	G-112 C1/20

AUXILIARY

A1 (OVL-C)	**A2 (OVL-D)**	**A3**
R-A121C1/97 C5/14	R-A124 C1/94 C5/11	R-A111 C1/91 C5/9 OS1
Y-A122 C1/98 C5/15	Y-A125 C1/95 C5/12	Y-A112 C1/101 C5/18 D-2
G-A123 C1/99 C5/16	G-A126 C1/96 C5/13	G-A113 C1/93 C5/10 D-3
A4 (OVL-A)	**A5 (OVL-B)**	**A6**
R-A114 C1/88 C5/6	R-A101 C1/85 C5/3	R-A104 C1/84 C5/2 OS-2
Y-A115 C1/89 C5/7	Y-A102 C1/86 C5/4	Y-A105 C1/100 C5/17 Flash
G-A116 C1/90 C5/8	G-A103 C1/87 C5/5	G-A106 C1/83 C5/1 OS-3

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PATTERN 1

CODE	FUNCTION	ENTER	DISPLAY
C-1-0	CYC. LENG.	E	C
C-1-1	ϕ 1 SPLIT	E	C
C-1-2	ϕ 2 SPLIT	E	C
C-1-3	ϕ 3 SPLIT	E	C
C-1-4	ϕ 4 SPLIT	E	C
C-1-5	ϕ 5 SPLIT	E	C
C-1-6	ϕ 6 SPLIT	E	C
C-1-7	ϕ 7 SPLIT	E	C
C-1-8	ϕ 8 SPLIT	E	C
C-1-A	OFFSET A	E	C 000
C-1-B	OFFSET B	E	C
C-1-C	OFFSET C	E	C

PATTERN 2

CODE	FUNCTION	ENTER	DISPLAY
C-2-0	CYC. LENG.	E	C
C-2-1	ϕ 1 SPLIT	E	C
C-2-2	ϕ 2 SPLIT	E	C
C-2-3	ϕ 3 SPLIT	E	C
C-2-4	ϕ 4 SPLIT	E	C
C-2-5	ϕ 5 SPLIT	E	C
C-2-6	ϕ 6 SPLIT	E	C
C-2-7	ϕ 7 SPLIT	E	C
C-2-8	ϕ 8 SPLIT	E	C
C-2-A	OFFSET A	E	C 000
C-2-B	OFFSET B	E	C
C-2-C	OFFSET C	E	C

PATTERN 3

CODE	FUNCTION	ENTER	DISPLAY
C-3-0	CYC. LENG.	E	C
C-3-1	ϕ 1 SPLIT	E	C
C-3-2	ϕ 2 SPLIT	E	C
C-3-3	ϕ 3 SPLIT	E	C
C-3-4	ϕ 4 SPLIT	E	C
C-3-5	ϕ 5 SPLIT	E	C
C-3-6	ϕ 6 SPLIT	E	C
C-3-7	ϕ 7 SPLIT	E	C
C-3-8	ϕ 8 SPLIT	E	C
C-3-A	OFFSET A	E	C 000
C-3-B	OFFSET B	E	C
C-3-C	OFFSET C	E	C

PATTERN 4

CODE	FUNCTION	ENTER	DISPLAY
C-4-0	CYC. LENG.	E	C
C-4-1	ϕ 1 SPLIT	E	C
C-4-2	ϕ 2 SPLIT	E	C
C-4-3	ϕ 3 SPLIT	E	C
C-4-4	ϕ 4 SPLIT	E	C
C-4-5	ϕ 5 SPLIT	E	C
C-4-6	ϕ 6 SPLIT	E	C
C-4-7	ϕ 7 SPLIT	E	C
C-4-8	ϕ 8 SPLIT	E	C
C-4-A	OFFSET A	E	C 000
C-4-B	OFFSET B	E	C
C-4-C	OFFSET C	E	C

PATTERN 5

CODE	FUNCTION	ENTER	DISPLAY
C-5-0	CYC. LENG.	E	C
C-5-1	ϕ 1 SPLIT	E	C
C-5-2	ϕ 2 SPLIT	E	C
C-5-3	ϕ 3 SPLIT	E	C
C-5-4	ϕ 4 SPLIT	E	C
C-5-5	ϕ 5 SPLIT	E	C
C-5-6	ϕ 6 SPLIT	E	C
C-5-7	ϕ 7 SPLIT	E	C
C-5-8	ϕ 8 SPLIT	E	C
C-5-A	OFFSET A	E	C 000
C-5-B	OFFSET B	E	C
C-5-C	OFFSET C	E	C

PATTERN 6

CODE	FUNCTION	ENTER	DISPLAY
C-6-0	CYC. LENG.	E	C
C-6-1	ϕ 1 SPLIT	E	C
C-6-2	ϕ 2 SPLIT	E	C
C-6-3	ϕ 3 SPLIT	E	C
C-6-4	ϕ 4 SPLIT	E	C
C-6-5	ϕ 5 SPLIT	E	C
C-6-6	ϕ 6 SPLIT	E	C
C-6-7	ϕ 7 SPLIT	E	C
C-6-8	ϕ 8 SPLIT	E	C
C-6-A	OFFSET A	E	C 000
C-6-B	OFFSET B	E	C
C-6-C	OFFSET C	E	C

PATTERN 7

CODE	FUNCTION	ENTER	DISPLAY
C-7-0	CYC. LENG.	E	C
C-7-1	ϕ 1 SPLIT	E	C
C-7-2	ϕ 2 SPLIT	E	C
C-7-3	ϕ 3 SPLIT	E	C
C-7-4	ϕ 4 SPLIT	E	C
C-7-5	ϕ 5 SPLIT	E	C
C-7-6	ϕ 6 SPLIT	E	C
C-7-7	ϕ 7 SPLIT	E	C
C-7-8	ϕ 8 SPLIT	E	C
C-7-A	OFFSET A	E	C 000
C-7-B	OFFSET B	E	C
C-7-C	OFFSET C	E	C

PATTERN 8

CODE	FUNCTION	ENTER	DISPLAY
C-8-0	CYC. LENG.	E	C
C-8-1	ϕ 1 SPLIT	E	C
C-8-2	ϕ 2 SPLIT	E	C
C-8-3	ϕ 3 SPLIT	E	C
C-8-4	ϕ 4 SPLIT	E	C
C-8-5	ϕ 5 SPLIT	E	C
C-8-6	ϕ 6 SPLIT	E	C
C-8-7	ϕ 7 SPLIT	E	C
C-8-8	ϕ 8 SPLIT	E	C
C-8-A	OFFSET A	E	C 000
C-8-B	OFFSET B	E	C
C-8-C	OFFSET C	E	C

PATTERN 9

CODE	FUNCTION	ENTER	DISPLAY
C-9-0	CYC. LENG.	E	C
C-9-1	ϕ 1 SPLIT	E	C
C-9-2	ϕ 2 SPLIT	E	C
C-9-3	ϕ 3 SPLIT	E	C
C-9-4	ϕ 4 SPLIT	E	C
C-9-5	ϕ 5 SPLIT	E	C
C-9-6	ϕ 6 SPLIT	E	C
C-9-7	ϕ 7 SPLIT	E	C
C-9-8	ϕ 8 SPLIT	E	C
C-9-A	OFFSET A	E	C 000
C-9-B	OFFSET B	E	C
C-9-C	OFFSET C	E	C

COORD MAX RECALL

CODE	PATTERN	ENTER	CALL LAMPS	TIMING DATA
D-D-1	1			d
D-D-2	2			d
D-D-3	3			d
D-D-4	4			d
D-D-5	5			d
D-D-6	6			d
D-D-7	7			d
D-D-8	8			d
D-D-9	9			d

COORD MIN RECALL

CODE	PATTERN	ENTER	CALL LAMPS	TIMING DATA
D-E-1	1			d
D-E-2	2			d
D-E-3	3			d
D-E-4	4			d
D-E-5	5			d
D-E-6	6			d
D-E-7	7			d
D-E-8	8			d
D-E-9	9			d

COORD PED RECALL

CODE	PATTERN	ENTER	CALL LAMPS	TIMING DATA
D-F-1	1			d
D-F-2	2			d
D-F-3	3			d
D-F-4	4			d
D-F-5	5			d
D-F-6	6			d
D-F-7	7			d
D-F-8	8			d
D-F-9	9			d

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EPROM BOARD - 412C

CHIP	PROGRAM	NUMBER	CHECKSUM	CHIP	PROGRAM	NUMBER	CHECKSUM
U1	C8.4	E# 74	4C46	U2	C8.4		

	1	2	3	4	5	6	7	8
LOCATION (1=ON)								
SWITCH (0=OFF)	0	0	0	0	0	0	0	0
FEATURE (1=ON)								
SWITCH (0=OFF)	0	0	0	0	0	0	0	0

CODE	FUNCTION	ENTER	DISPLAY	
			LAMPS	TIMING
F-0-E	MAXIMUM VARIABLE INITIAL	30 E		F 030
F-0-F	RED REVERT	50 E		F 05.0
F-D-0	TBCSEL	1 E		F 001
F-D-1	HOUR	0 E		F 000
F-D-2	MINUTE	0 E		F 000
F-D-8	OFFSET SEEKING FLAG	1 E		F 001
C-0-0	LOCAL ADDRESS	OBSERVE	ONLY	C 000
C-C-2	PC MASTER DOWNLOAD	1 E		C 001
C-F-C	COORDINATED FAZES	2 6	2 6	C 034
D-0-9	FEATURE (Set by Feature Switch)	OBSERVE	ONLY	d 000
*E-F-A	OL'A ON WITH PHASE	5 7	5 7	E080
*E-E-A	OL'A NOT ON WITH PHASE	3 6	3 6	E036
*E-F-B	OL'B ON WITH PHASE	6 7	6 7	E096
*E-E-B	OL'B NOT ON WITH PHASE	5	5	E016
*E-F-C	OL'C ON WITH PHASE	2 7	2 7	E066
*E-E-C	OL'C NOT ON WITH PHASE	1	1	E001
*E-F-7	CHANGE PHASE 4P TO PHASE 5P	0 5	5	E016
*E-F-8	CHANGE PHASE 8P TO PHASE 1P	0 1	1	E001
	* C-C-1 = NON ZERO			
C-F-0	LAG FAZES "FREE"	2 4 6 8	2 4 6 8	C 170
C-F-1	LAG FAZES "PATTERN 1"			C
C-F-2	LAG FAZES "PATTERN 2"			C
C-F-3	LAG FAZES "PATTERN 3"			C
C-F-4	LAG FAZES "PATTERN 4"			C
C-F-5	LAG FAZES "PATTERN 5"			C
C-F-6	LAG FAZES "PATTERN 6"			C
C-F-7	LAG FAZES "PATTERN 7"			C
C-F-8	LAG FAZES "PATTERN 8"			C
C-F-9	LAG FAZES "PATTERN 9"			C

CODE	FUNCTION	ENTER	DISPLAY	
			LAMPS	TIMING
F-E-3	EVA HOLD TIME	5 E		F005
F-E-7	EVC HOLD TIME	5 E		F005
F-E-A	EV MAX HOLD TIME	40 E		F040
F-C-F	RAM PAGE ACCESS	123 E		F123
E-C-7	ASSIGN 4I6U TO 5I6U	0 5	5	E016
E-C-8	ASSIGN 4I6L TO 5I6L	0 5	5	E016
E-E-7	ASSIGN 8J6U TO 7J6U	0 7	7	E064
E-E-8	ASSIGN 8J6L TO 7J6L	0 7	7	E064
E-C-B	ASSIGN 4I8U/L TO 5I8U/L	0 5	5	E016
E-E-D	ASSIGN 7J9L TO 5J9L	0 5	5	E016
E-D-B	ASSIGN 5I8U/L AS EX, CALL	0 5 7	5 7	E080
E-F-8	RED LOCK 7J6L	0 1 5 6	1 5 6	E049
E-D-5	SET 2I4U/L AS EX	0 5	5	E016
E-F-5	SET 6J4U/L AS EX	0 5	5	E016
E-E-9	REASSIGN 8J7U TO 3J7U	0 3	3	E004
E-E-A	REASSIGN 8J7L TO 3J7L	0 3	3	E004
E-E-4	REASSIGN 6J3L TO 7J3L	0 7	7	E064
E-F-9	RED LOCK 3J7U	1	1 5 6	E049
E-F-A	RED LOCK 3J7L	1	1 5 6	E049
E-C-D	ASSIGN 3I9L TO 1I9L	0 1	1	E001
E-D-0	ADD RED LOCK TO 1I1U/L	0 1 5	1 5	E017
F-C-F	RAM PAGE EXIT	0 E		F000
C-E-1	LAG PHASE Gap-Out "PATTERN 1"	E		C
C-E-2	LAG PHASE Gap-Out "PATTERN 2"	E		C
C-E-3	LAG PHASE Gap-Out "PATTERN 3"	E		C
C-E-4	LAG PHASE Gap-Out "PATTERN 4"	E		C
C-E-5	LAG PHASE Gap-Out "PATTERN 5"	E		C
C-E-6	LAG PHASE Gap-Out "PATTERN 6"	E		C
C-E-7	LAG PHASE Gap-Out "PATTERN 7"	E		C
C-E-8	LAG PHASE Gap-Out "PATTERN 8"	E		C
C-E-9	LAG PHASE Gap-Out "PATTERN 9"	E		C

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