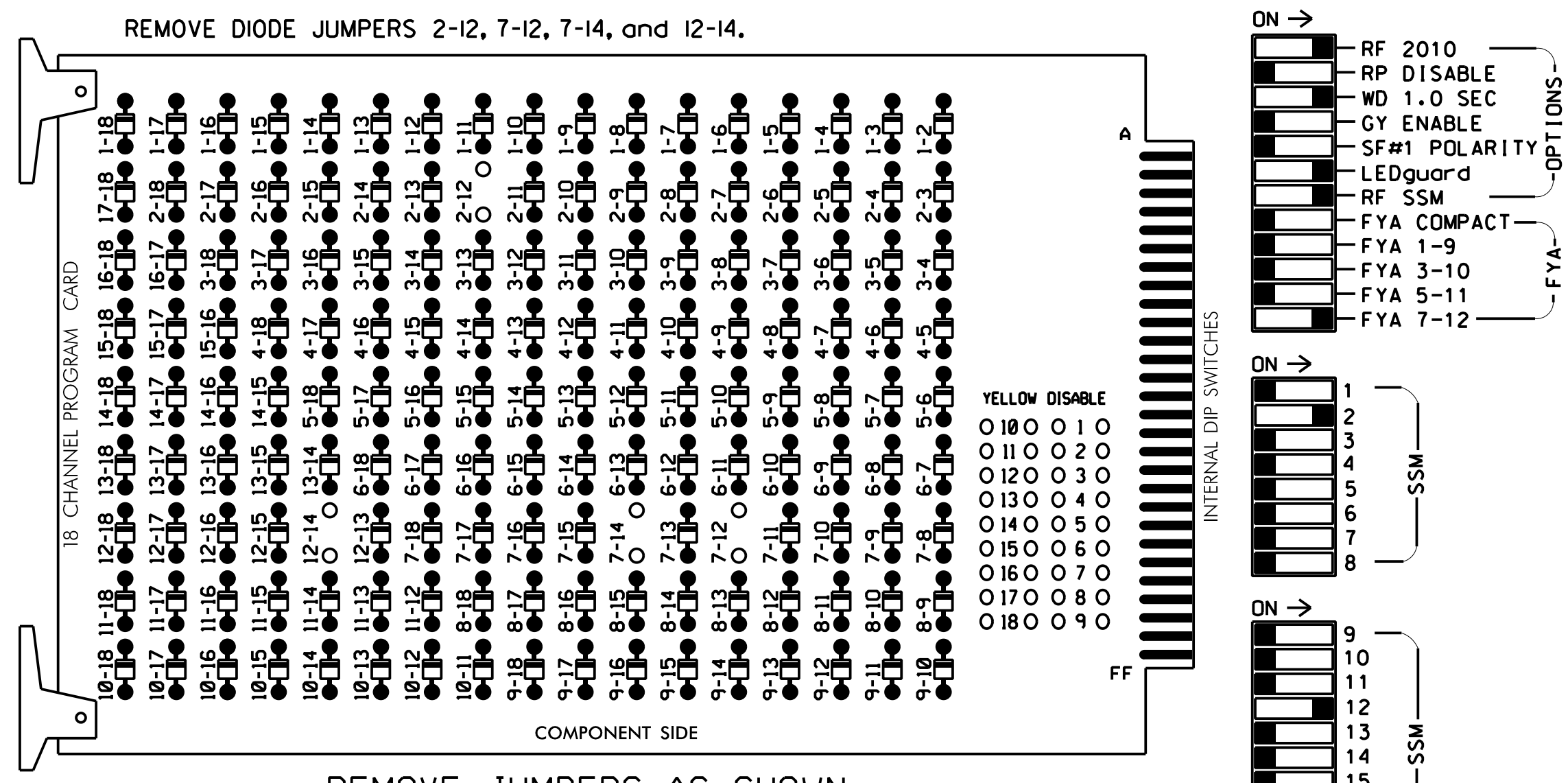


### 18 CHANNEL CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)



- REMOVE DIODE JUMPERS 2-12, 7-12, 7-14, and 12-14.
- REMOVE JUMPERS AS SHOWN
- NOTES:
- Card is provided with all diode jumpers in place. Removal of any jumper allows its channels to run concurrently.
  - Ensure jumpers SEL2-SEL5 and SEL9 are present on the monitor board.
  - Ensure that Red Enable is active at all times during normal operation.
  - Connect serial cable from conflict monitor to comm. port 1 of 2070 controller. Ensure conflict monitor communicates with 2070.

### NOTES

- To prevent "flash-conflict" problems, insert red flash program blocks for all unused vehicle load switches in the output file. The installer shall verify that signal heads flash in accordance with the Signal Plans.
- Enable Simultaneous Gap-Out for all Phases.
- Program phase 2 for Startup In Green.
- Program phase 2 for Yellow Flash.
- The cabinet and controller are part of the Wilmington Signal System.

### SIGNAL HEAD HOOK-UP CHART

LOAD SWITCH NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	AUX S1	AUX S2	AUX S3	AUX S4	AUX S5	AUX S6	
CMU CHANNEL NO.	1	2	13	3	4	14	5	6	15	7	8	16	9	10	17	11	12	18	
PHASE	1	2	2 PED	3	4	7 PED	5	6	6 PED	7	8	8 PED	OLA	OLB	SPARE	OLC	OLD	SPARE	
SIGNAL HEAD NO.	NU	21,22	NU	NU	NU	P71, P72	NU	NU	NU	71,72	NU	NU	NU	NU	NU	NU	71,72	NU	
RED		128																	
YELLOW		129								*									
GREEN		130																	
RED ARROW																		A101	
YELLOW ARROW																			A102
FLASHING YELLOW ARROW																			A103
GREEN ARROW										124									
Hand icon																			104
Walking person icon																			106

NU = Not Used  
 \* Denotes install load resistor. See load resistor installation detail this sheet.  
 \* See pictorial of head wiring in detail this sheet.

### EQUIPMENT INFORMATION

CONTROLLER.....2070  
 CABINET.....332 W/ AUX  
 SOFTWARE.....ECONOLITE OASIS  
 CABINET MOUNT.....BASE  
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE  
 LOAD SWITCHES USED.....S2,S6,S10,AUX S5  
 PHASES USED.....2,7  
 OVERLAP "A".....NOT USED  
 OVERLAP "B".....NOT USED  
 OVERLAP "C".....NOT USED  
 OVERLAP "D".....2+7

### INPUT FILE POSITION LAYOUT

(front view)

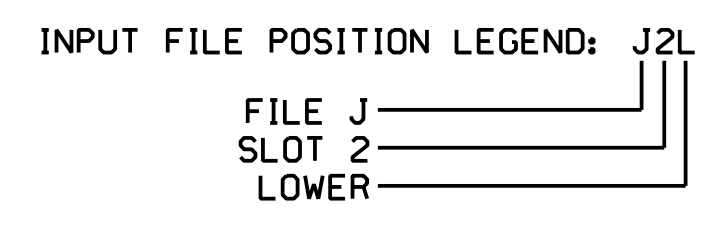
FILE	1	2	3	4	5	6	7	8	9	10	11	12	13	14
U	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS
L	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS
U	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS
L	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS

EX.: 1A, 2A, ETC. = LOOP NO.'S  
 FS = FLASH SENSE  
 ST = STOP TIME  
 \* Wired Input - Do not populate slot with detector card

### INPUT FILE CONNECTION & PROGRAMMING CHART

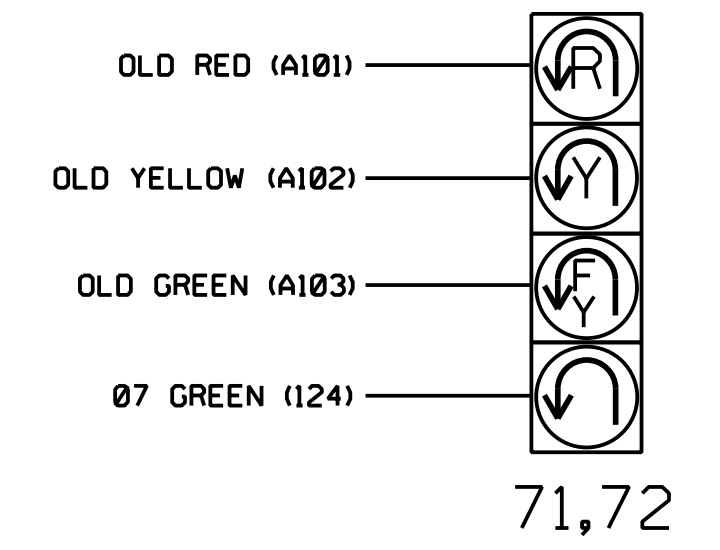
LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT ASSIGNMENT NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND	FULL TIME DELAY	STRETCH TIME	DELAY TIME
7A1	T85-5,6	J5U	57	19*	7	7	Y	Y			10
	-	I8U	49	11*	24	2	Y	Y			
	-	J5U	57	19*	57	7	Y	Y			
PED PUSH BUTTONS											
P71,P72	T88-5,6	I12L	69	31	PED 4	7 PED					

NOTE: INSTALL DC ISOLATORS IN INPUT FILE SLOT 112.  
 \* See Input Page Assignment programming details on sheet 3.  
 \* Add jumper from J5-W to I8-W, on rear of input file.



### FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



NOTE  
 The sequence display for signal heads 71 and 72 require special logic programming. See sheet 2 for programming instructions.

### COUNTDOWN PEDESTRIAN SIGNAL OPERATION

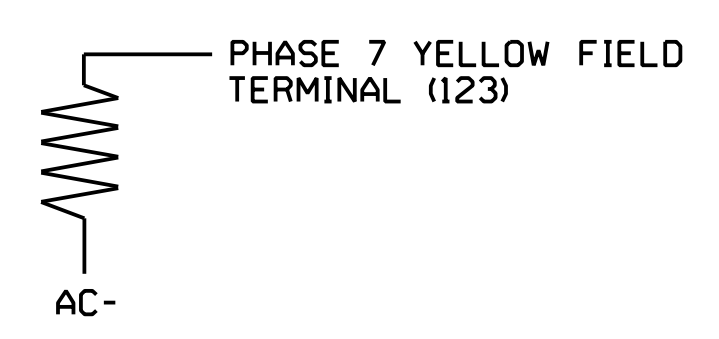
Countdown Ped Signals are required to display timing only during Ped Clearance Interval. Consult Ped Signal Module user's manual for instructions on selecting this feature.

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 03-1233  
 DESIGNED: May 2022  
 SEALED: 5/17/2024  
 REVISED:

### LOAD RESISTOR INSTALLATION DETAIL

(install resistor as shown below)

VALUE (ohms)	WATTAGE
1.5K - 1.9K	25W (min)
2.0K - 3.0K	10W (min)



Electrical Detail - Sheet 1 of 4  
 New Installation

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared for:

SR 2048 (Gordon Rd) Eastbound at Westbound U-Turn

Division 3 New Hanover County Wilmington

PLAN DATE: March 2024 REVIEWED BY: N.K. Vlanich  
 PREPARED BY: E.E. Tiller REVIEWED BY: N.R. Simmons

REVISIONS: INITI. DATE

DocuSigned by:

5/17/2024  
 DATE  
 SIG. INVENTORY NO. 03-1233

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