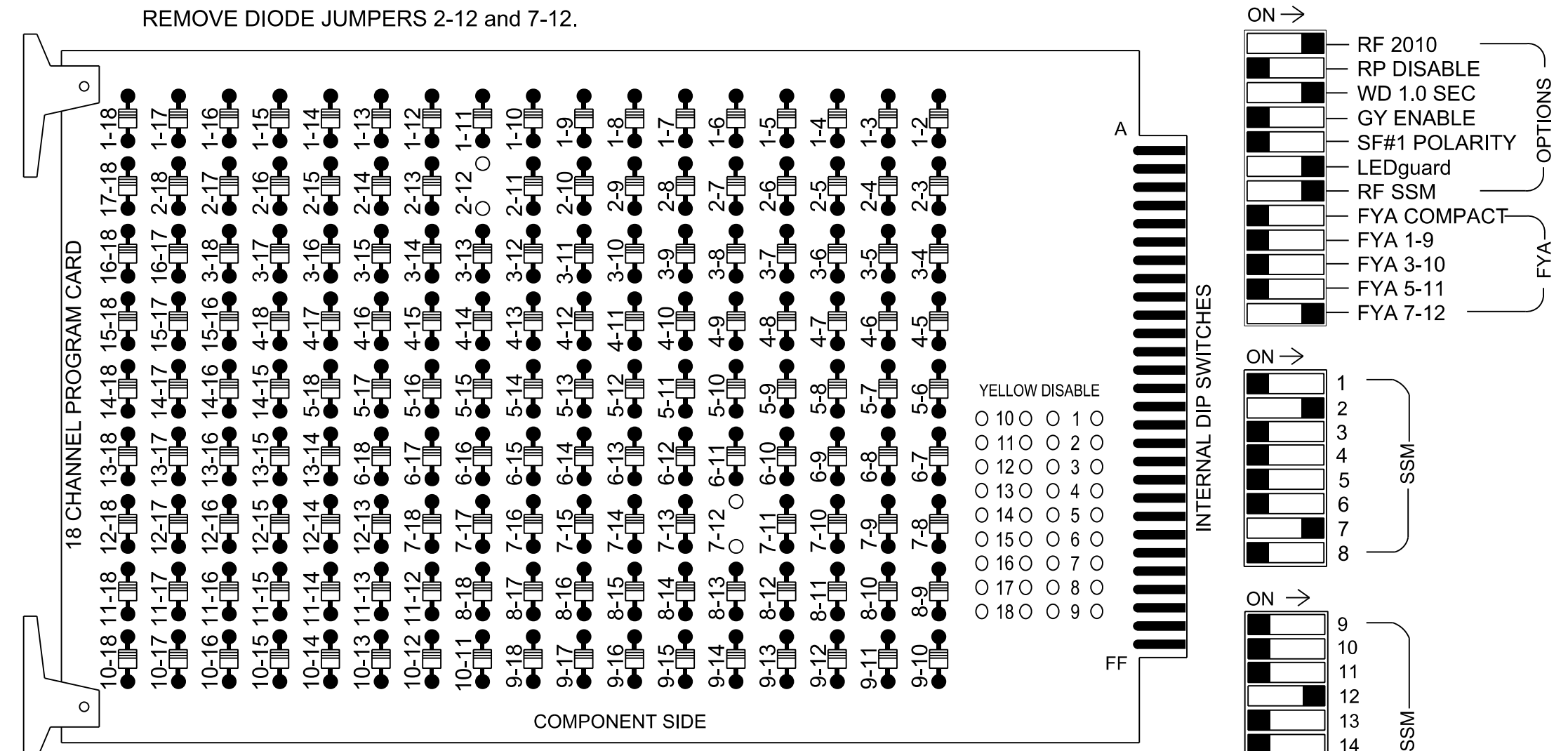


### 18 CHANNEL IP CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches 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 the Red Enable is active at all times during normal operation.
- Integrate monitor with Ethernet network in cabinet.

### 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 plan.
- Program controller to start up in phase 2 Green No Walk.
- Program startup sequence as follows:  
From web Interface: Controller>Unit: set STARTUP CLEARANCE HOLD to 6 sec and ALL RED FLASH EXIT TIME to 6 seconds.
- Ensure all channels are programmed to flash red on the channel configuration screen. From web Interface: Controller>Advanced IO>Channels>Channel Configuration: program all channels to flash red.
- If this signal will be managed by an ATMS software, enable controller and detector logging for all detectors used at this location.

### EQUIPMENT INFORMATION

Controller.....2070LX  
 Cabinet.....332 w/ Aux  
 Software.....Q-Free MAXTIME  
 Cabinet Mount.....Base  
 Output File Positions.....18 With Aux. Output File  
 Load Switches Used.....S2, S10, AUX S5.  
 Phases Used.....2, 7  
 Overlap "1".....NOT USED  
 Overlap "2".....NOT USED  
 Overlap "3".....NOT USED  
 Overlap "4".....\*

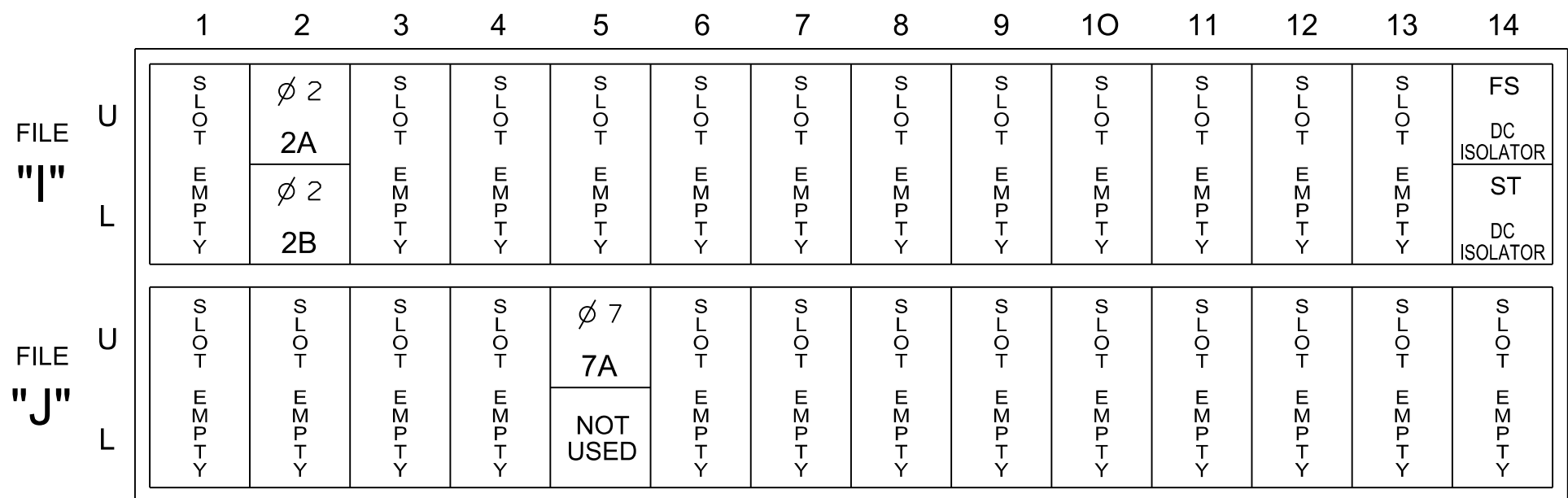
\*See overlap programming detail on sheet 2.

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	3	4	4	5	6	6	7	8	8	OL1	OL2	SPARE	OL3	OL4	SPARE
SIGNAL HEAD NO.	NU	21,22	NU	NU	NU	NU	NU	NU	NU	71	NU	NU	NU	NU	NU	NU	71	NU
RED		128																
YELLOW		129								*								
GREEN																		
RED ARROW																		A101
YELLOW ARROW																		A102
FLASHING YELLOW ARROW																		A103
GREEN ARROW		130									124							

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

### INPUT FILE POSITION LAYOUT

(front view)



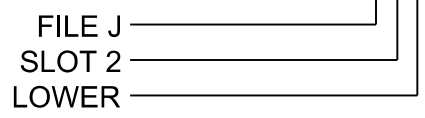
EX. : 1A, 2A, ETC. = LOOP NO.'S  
 FS = FLASH SENSE  
 ST = STOP TIME

### INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT POINT	DETECTOR NO.	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN
2A	TB2-5,6	I2U	39	1	2	2			X	X	X	
2B	TB2-7,8	I2L	43	5	3	2			X	X	X	
7A	TB5-5,6	J5U	57	19	21	★	7	15.0	X		X	

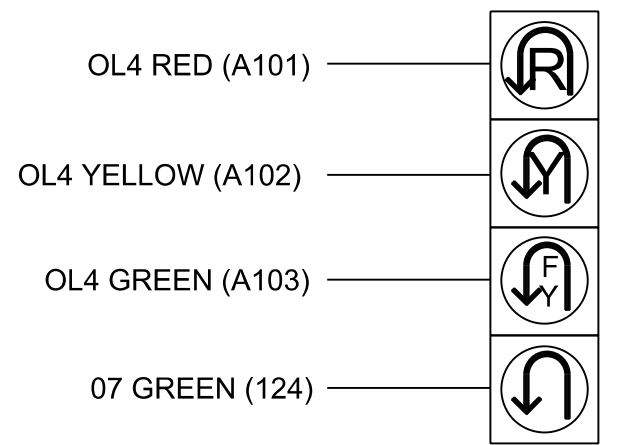
\* For the detectors to work as shown on the signal plans, see the vehicle detector setup Programming Detail for Alternate Phasing on sheet 2.

INPUT FILE POSITION LEGEND: J2L



### FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)

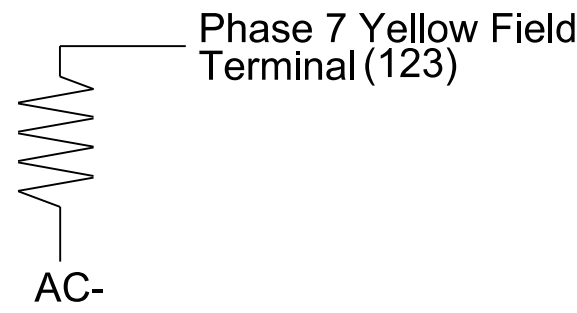


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### LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown)

ACCEPTABLE VALUES	
Value (ohms)	Wattage
1.5K - 1.9K	25W (min)
2.0K - 3.0K	10W (min)



### SEQUENCE DETAIL

Front Panel  
Main Menu > Controller > Sequence & Phs Config > Sequences

Web Interface  
Home > Controller > Sequence

Sequence 1

Ring	Sequence Data
1	2,a,7,b
2	

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 08-0486  
 DESIGNED: August 2024  
 SEALED: August 28, 2024  
 REVISED: N/A

New Installation-Electrical Detail-Sheet 1 of 2

Electrical and Programming Details For:  Prepared for the Offices of:  750 N. Greenfield Pkwy, Garner, NC 27529 P: (919) 878-9560 8801 Six Forks Road Suite 700   Raleigh, North Carolina 27615-2965 NC License No. F-0112 Engineers   Construction Managers   Planners   Scientists www.rk.com Responsive People   Creative Solutions	NC 211 Eastbound At U-Turn North of SR 1219 (Army Rd) Moore County, Aberdeen	DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED SEAL  SEAL 056142 PORTER JONES DATE 8/28/2024
	Division 8 PLAN DATE: August 2024 PREPARED BY: VS Kondapally REVISIONS: _____ INIT. DATE	REVIEWED BY: DT Sears REVIEWED BY: W.P. Erickson-Jones INIT. DATE