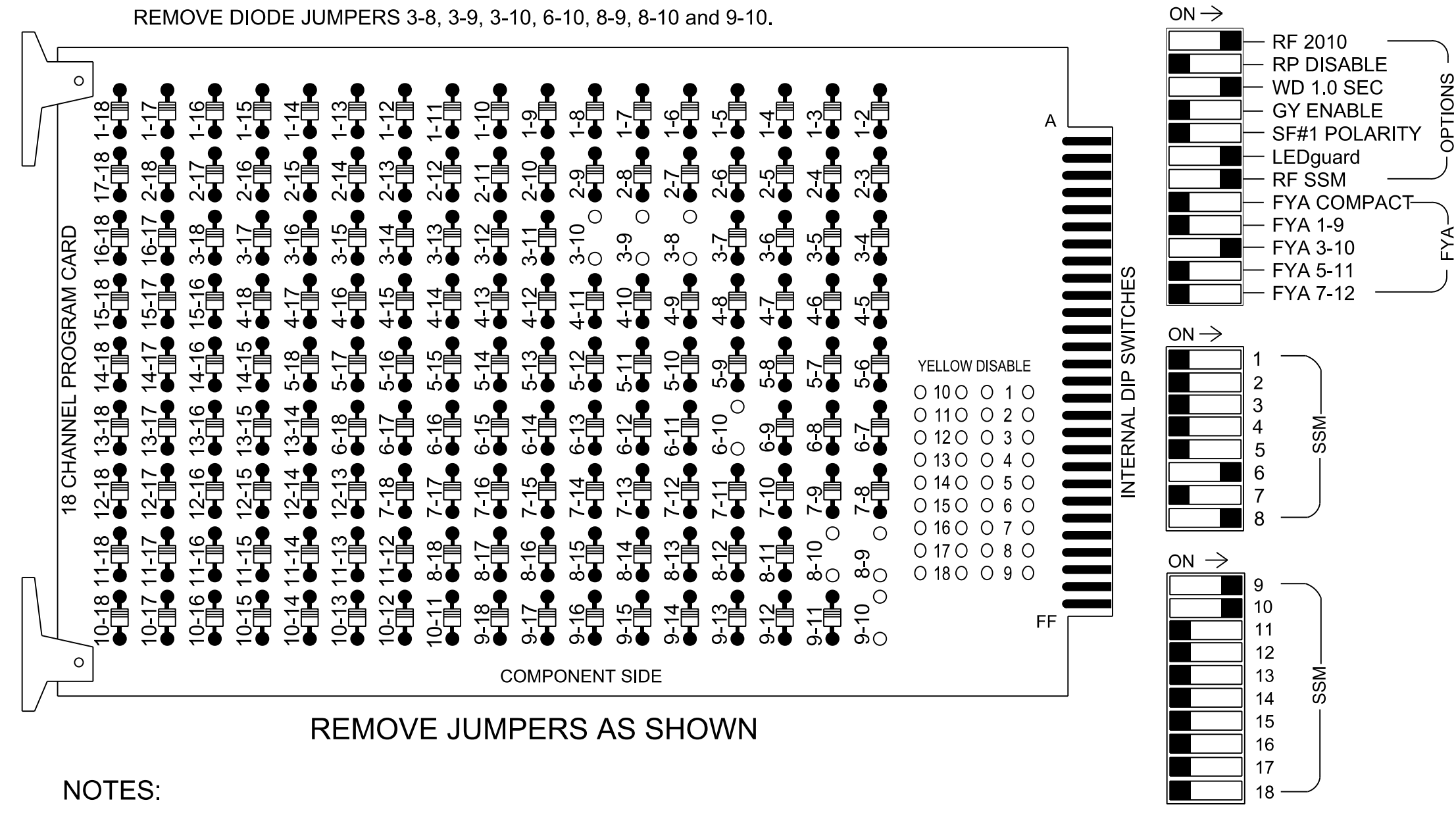


18 CHANNEL IP CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)



- REMOVE DIODE JUMPERS 3-8, 3-9, 3-10, 6-10, 8-9, 8-10 and 9-10.
- 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 the 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 plan.
- Program controller to start up in phase 6 Green No Walk, 39 Phase Not On, and 40 Green No Walk
- Program phase 39 for no startup vehicle call.
- 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

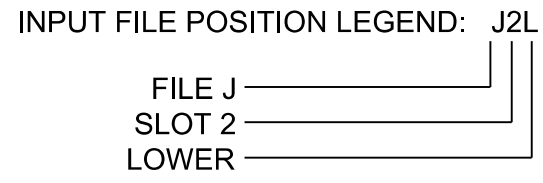
Controller.....2070LX
 Cabinet.....332 w/ Aux
 Software.....Q-Free MAXTIME
 Cabinet Mount.....Base
 Output File Positions.....18 With Aux. Output File
 Load Switches Used.....S4, S8, S11,
 AUX S1, AUX S2
 Phases Used.....3, 6, 8, #39, 40
 Overlap "1".....*
 Overlap "2".....*
 Overlap "3".....NOT USED
 Overlap "4".....NOT USED
 Overlap "7".....*

*See overlap programming detail on sheet 2.
 #Phase only used during preemption.

INPUT FILE CONNECTION & PROGRAMMING CHART

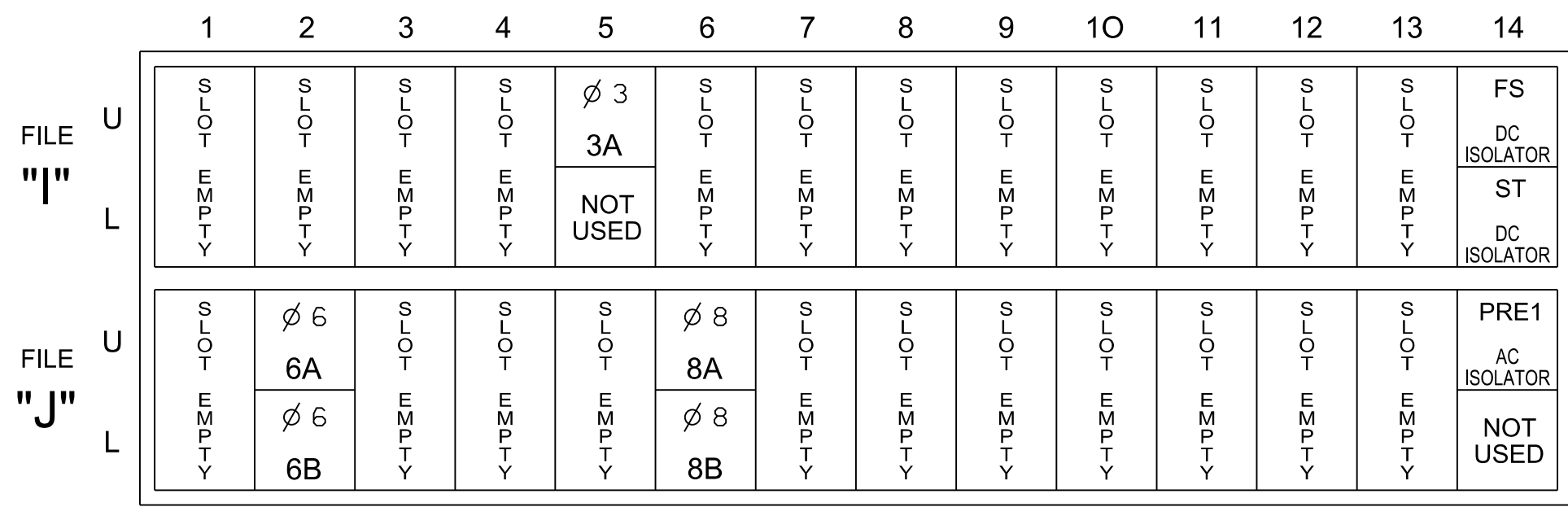
LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT POINT	DETECTOR NO.	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN
3A	TB4-5,6	ISU	58	20	7	3	15.0		X		X	
6A	TB3-5,6	J2U	40	2	16	6			X	X	X	
6B	TB3-7,8	J2L	44	6	17	6			X	X	X	
8A	TB5-9,10	J6U	42	4	22	8	15.0		X		X	
8B	TB5-11,12	J6L	46	8	23	8	5.0		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 LAYOUT

(front view)



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

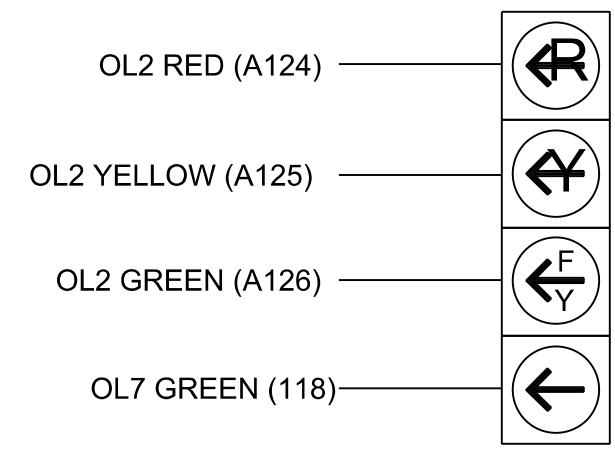
SIGNAL HEAD HOOK-UP CHART

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	OL7	4	4 PED	5	6	6 PED	7	8	8 PED	OL1	OL2	SPARE	OL3	OL4	SPARE
SIGNAL HEAD NO.	NU	NU	NU	31*	NU	NU	NU	61,62	NU	NU	83,84	NU	81,82	31*	NU	NU	NU	NU
RED								134			107		A121					
YELLOW				*				135			108							
GREEN																		
RED ARROW														A124				
YELLOW ARROW														A122	A125			
FLASHING YELLOW ARROW														A126				
GREEN ARROW					118			136		109			A123					

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

FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)

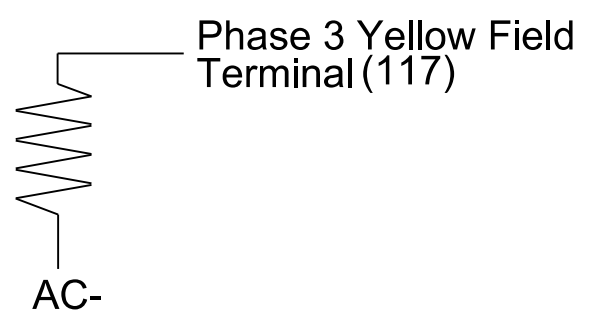


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LOAD RESISTOR INSTALLATION DETAIL

(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	a,3,b
2	6,a,8,b
3	39,c,40,d

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 08-0268
 DESIGNED: August 2024
 SEALED: August 28, 2024
 REVISED: N/A

New Installation-Final Design-Electrical Detail-Sheet 1 of 3

Electrical and Programming Details For:

Prepared for the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

NC 211 WB (Aberdeen Rd)
 At
 SR 1219 (Plank Rd)

Division 8 Hoke County Ashley Heights

PLAN DATE: August 2024 REVIEWED BY: DT Sears

PREPARED BY: VS Kondapally REVIEWED BY: W.P. Erickson-Jones

REVISIONS	INIT.	DATE

Seal: PORTER JONES, ENGINEER, SEAL 056142

DocuSigned by: Porter Jones, 8/28/2024

SIG. INVENTORY NO. 08-0268