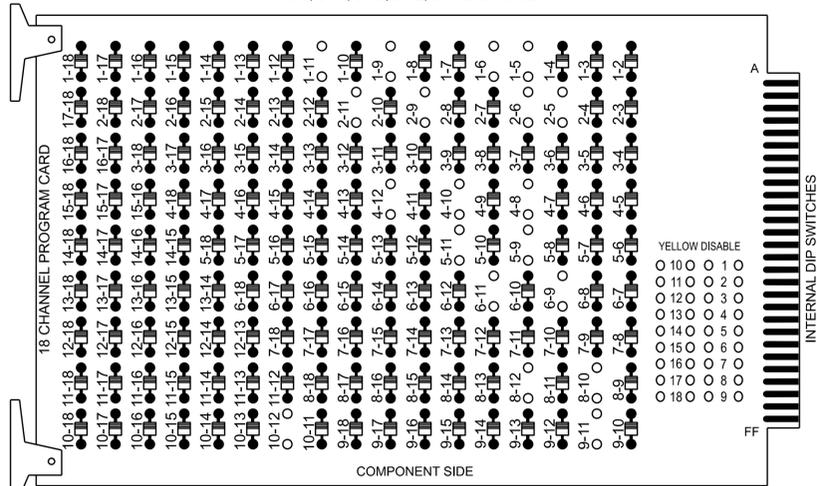


### 18 CHANNEL CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

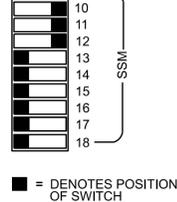
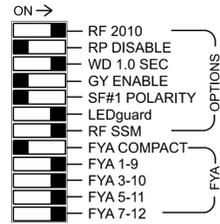
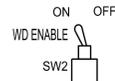
REMOVE DIODE JUMPERS 1-5, 1-6, 1-9, 1-11, 2-5, 2-6, 2-9, 2-11, 4-8, 4-10, 4-12, 5-9, 5-11, 6-9, 6-11, 8-10, 8-12, 9-11 and 10-12.



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.



■ = DENOTES POSITION OF SWITCH

### NOTES

- To prevent "flash-conflict" problems, insert red flash program blocks for all vehicle load switches in the output file. The installer shall verify that signal heads flash in accordance with the Signal Plans.
- Program controller to start up in phases 2 and 6 green Don't Walk.
- Enable simultaneous gap-out feature for all phases.
- Program phases 4 and 8 for dual entry.
- Program phases 2 and 6 for volume density operation.
- The cabinet and controller are part of the Raleigh City Signal System.

### EQUIPMENT INFORMATION

Controller.....2070LX  
 Cabinet.....332 w/ Aux  
 Software.....SE-PAC2070 (version 5)  
 Cabinet Mount.....Base  
 Output File Positions.....18 With Aux. Output File  
 Load Switches Used.....S1, S2, S5, S7, S8, S11, AUX S1, AUX S2, AUX S4, AUX S5  
 Phases Used.....1, 2, 4, 5, 6, 8  
 Overlap "A".....\*  
 Overlap "B".....\*  
 Overlap "C".....\*  
 Overlap "D".....\*

\*See overlap programming detail on sheet 2

### 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	4 PED	5	6	6 PED	7	8	8 PED	OLA	OLB	SPARE	OLC	OLD	SPARE	
SIGNAL HEAD NO.	11*	21,22	NU	NU	42,43	NU	43	51*	61,62	NU	NU	82,83	NU	11*	81*	NU	51*	41*	NU
RED		128			101		*		134			107							
YELLOW	*	129			102				135			108							
GREEN		130			103				136			109							
RED ARROW																A121	A124	A114	A101
YELLOW ARROW							132						A122	A125		A115	A102		
FLASHING YELLOW ARROW													A123	A126		A116	A103		
GREEN ARROW	127						133	133											

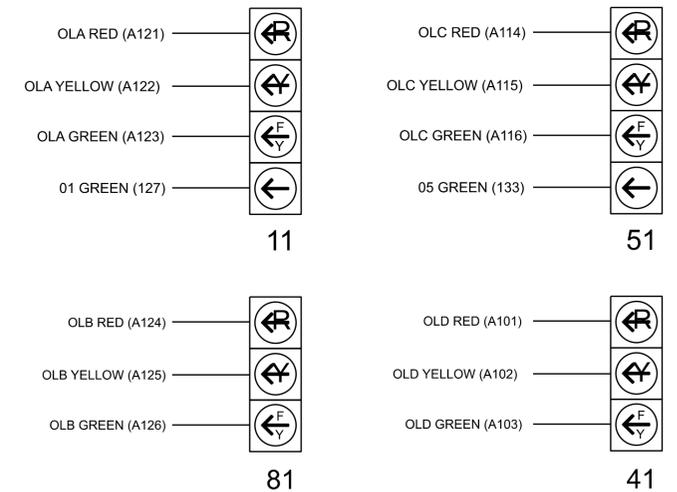
NU = Not Used

\* Denotes install load resistor. See load resistor installation detail this sheet.

\* See pictorial of head wiring in detail this sheet.

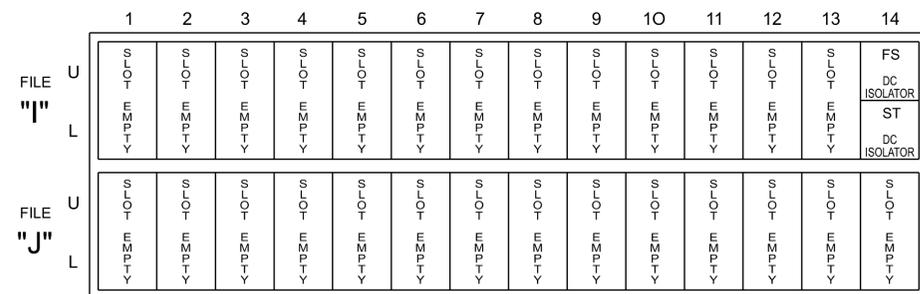
### FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



### INPUT FILE POSITION LAYOUT

(front view)



EX.: 1A, 2A, ETC. = LOOP NO.'S

FS = FLASH SENSE  
 ST = STOP TIME

### SPECIAL DETECTOR NOTE

Install non-intrusive detection system for vehicle detection. Perform installation according to manufacturer's directions and NCDOT engineer-approved mounting locations to accomplish the detection scheme shown on the Signal Design Plans.

### INIT & N.A. RESP PROGRAMMING DETAIL

(program controller as shown below)

- From Main Menu select **3-PHASE DATA**
- From PHASE DATA Submenu select **4-INIT & N.A. RESP+**

PHASE	1	2	3	4	5	6	7	8
INITIAL	1	4	0	1	1	4	0	2
NA RESP	0	1	0	2	0	1	0	2
UPDT GRN	0	0	0	0	0	0	0	0
CODES	0	1	2	3	4	5	6	
INIL	NONE	INACT	RED	YEL	GRN	DRK	G/DW	
NA RSP	NONE	NA1	NA2	1&2				

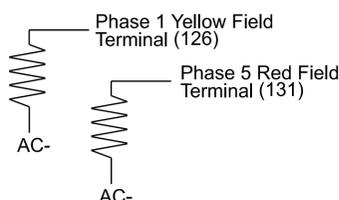
← Phases 3 & 7 NOT used!

INIT & N.A. RESP PROGRAMMING COMPLETE

### 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)



Electrical Detail - Temporary Design 1 (TMP Phases I & II) - Sheet 1 of 3

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 05-1714T1  
 DESIGNED: February 2025  
 SEALED: 3/27/2025  
 REVISED: N/A

Prepared in the Offices of:  
  
 750 N. Greenfield Pkwy, Garner, NC 27529

US 401 (Fayetteville Road) at Annaron Court

Division 5 Wake County Raleigh

PLAN DATE: March 2025 REVIEWED BY:  
 PREPARED BY: Tim Langston REVIEWED BY:

REVISIONS

NO.	DATE	INIT.	DATE

Seal: NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 031001  
 D. Todd Joyce  
 03/28/2025  
 DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SIG. INVENTORY NO. 05-1714T1