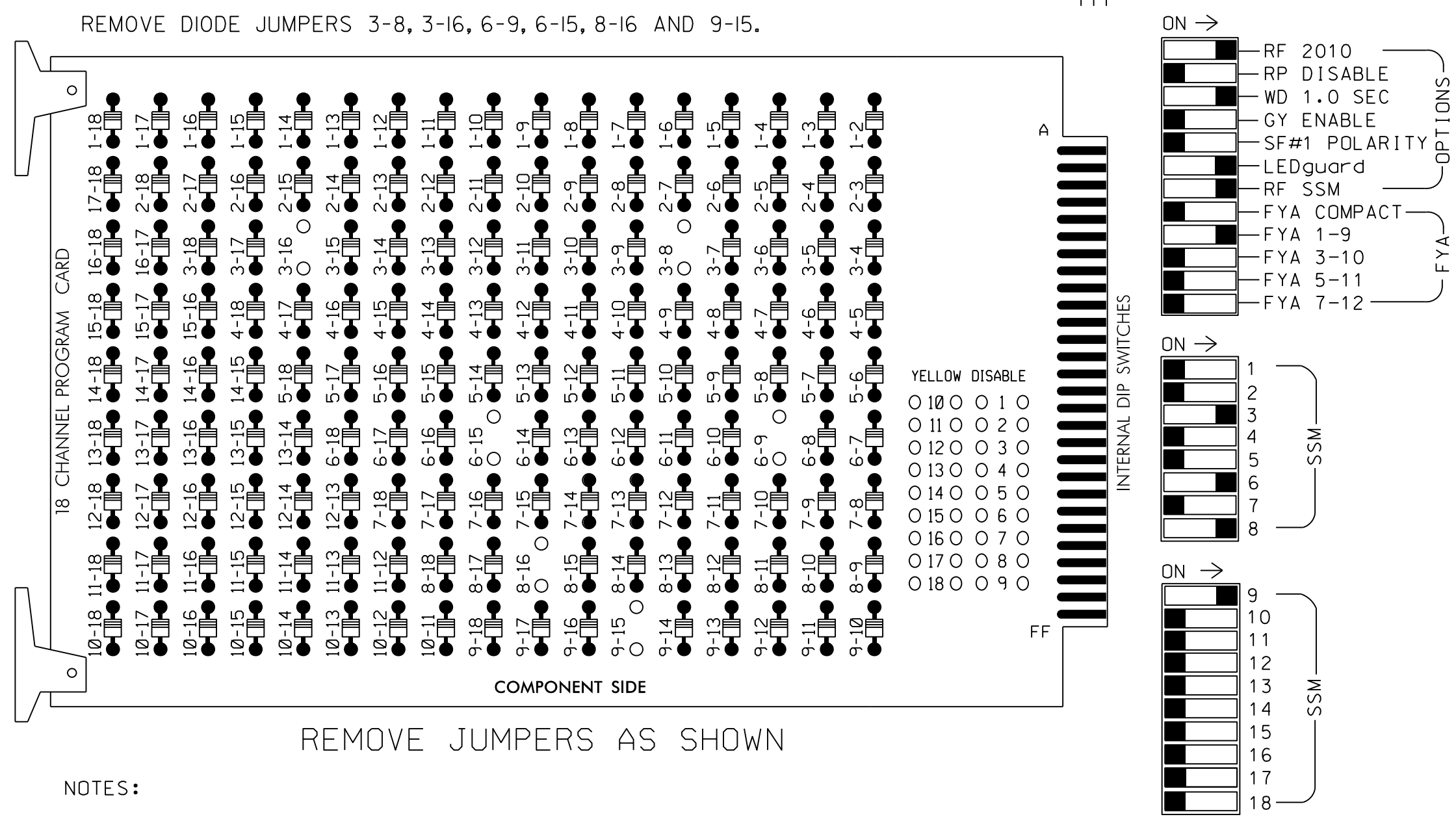


18 CHANNEL CONFLICT MONITOR PROGRAMMING DETAIL

(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 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 unused 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 phase 6 green.
- Enable simultaneous gap-out feature, on controller unit, for all phases.
- Program phases 3 and 8, on controller unit, for dual entry.
- Program phase 6, on controller unit, for volume density operation.
- The cabinet and controller are part of the Raleigh Signal System.

EQUIPMENT INFORMATION

CONTROLLER.....2070LX
 CABINET.....332 W/ AUX
 SOFTWARE.....SE-PAC2070
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE
 LOAD SWITCHES USED.....S4,S8,S9,S11,S12,AUX S1
 PHASES USED.....2*,3,6,6PED,8,8PED
 OVERLAP "A".....**
 OVERLAP "B".....NOT USED
 OVERLAP "C".....NOT USED
 OVERLAP "D".....NOT USED

- * Phase used for timing purposes only
- ** See sheet 2 for Overlap programming.

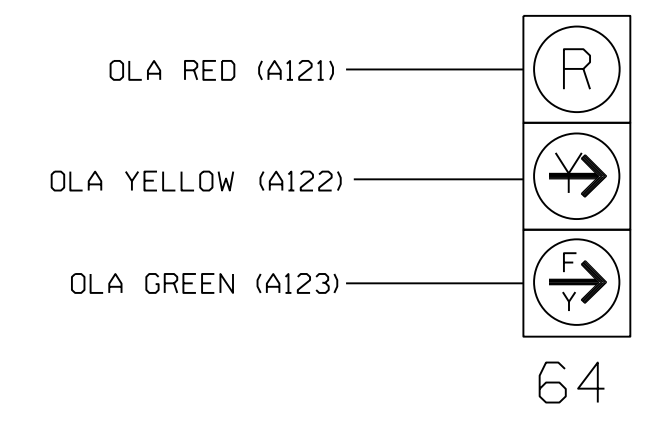
SIGNAL HEAD HOOK-UP CHART

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
DMU 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.	NU	NC	NU	31,32	NU	NU	NU	61,62, 63	P61, P62	NU	81,82, 83,84	P81, P82	64	NU	NU	NU	NU	NU
RED								134			107		A121					
YELLOW								135										
GREEN								136										
RED ARROW					116													
YELLOW ARROW					117						108		A122					
FLASHING YELLOW ARROW													A123					
GREEN ARROW					118						109							
Hand icon								119			110							
Person icon								121			112							

NU = Not Used
 NC = Not Connected
 ★ See pictorial of head wiring in detail this sheet.

FYA SIGNAL WIRING DETAIL

(wire signal head as shown)



NOTE

- See sheet 2 for Protected & Permissive Phases programming.

INPUT FILE POSITION LAYOUT

(front view)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
FILE U	← -O-S	← -O-S	← -O-S	← -O-S	← -O-S	← -O-S	← -O-S	← -O-S	← -O-S	← -O-S	← -O-S	← -O-S	← -O-S	← -O-S
FILE " I "	← -O-S	← -O-S	← -O-S	← -O-S	← -O-S	← -O-S	← -O-S	← -O-S	← -O-S	← -O-S	← -O-S	← -O-S	← -O-S	← -O-S
FILE U	← -O-S	← -O-S	← -O-S	← -O-S	← -O-S	← -O-S	← -O-S	← -O-S	← -O-S	← -O-S	← -O-S	← -O-S	← -O-S	← -O-S
FILE " J "	← -O-S	← -O-S	← -O-S	← -O-S	← -O-S	← -O-S	← -O-S	← -O-S	← -O-S	← -O-S	← -O-S	← -O-S	← -O-S	← -O-S

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

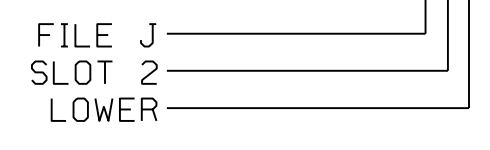
FS = FLASH SENSE
 ST = STOP TIME

INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	DETECTOR NO.	NEMA PHASE	DELAY TIME	EXTEND (STRETCH) TIME
P61,P62	T88-7,9	I13U	68	PED 6	6 PED		
P81,P82	T88-8,9	I13L	70	PED 8	8 PED		

NOTE:
 INSTALL DC ISOLATORS IN INPUT FILE SLOTS 113.

INPUT FILE POSITION LEGEND: J2L



SPECIAL DETECTOR NOTE

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

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.

Temporary Design (TMP Phase I-B)
 Electrical Detail - Sheet 1 of 2

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN:
 DESIGNED: Jan 2023
 SEALED: 1/24/2023
 REVISED:



ELECTRICAL AND PROGRAMMING DETAILS FOR: Prepared for the Offices of: CITY OF RALEIGH DEPARTMENT OF TRANSPORTATION & SIGNAL MANAGEMENT SYSTEMS 750 N. Greenfield Pkwy, Garner, NC 27529	US 401 SB (Louisburg Road) at SR 2006 (Perry Creek Road)		SEAL H. M. Surti PROFESSIONAL ENGINEER STATE OF NORTH CAROLINA SEAL 034481 H. M. Surti 1/24/2023 SIG. INVENTORY NO. 05-1249T	
	Division 5 Wake County Raleigh	PLAN DATE: Jan 2023 PREPARED BY: A. Ravipati		REVIEWED BY: H.M. Surti REVIEWED BY:
	REVISIONS	INIT. DATE		DATE
	REVISIONS	INIT. DATE		DATE