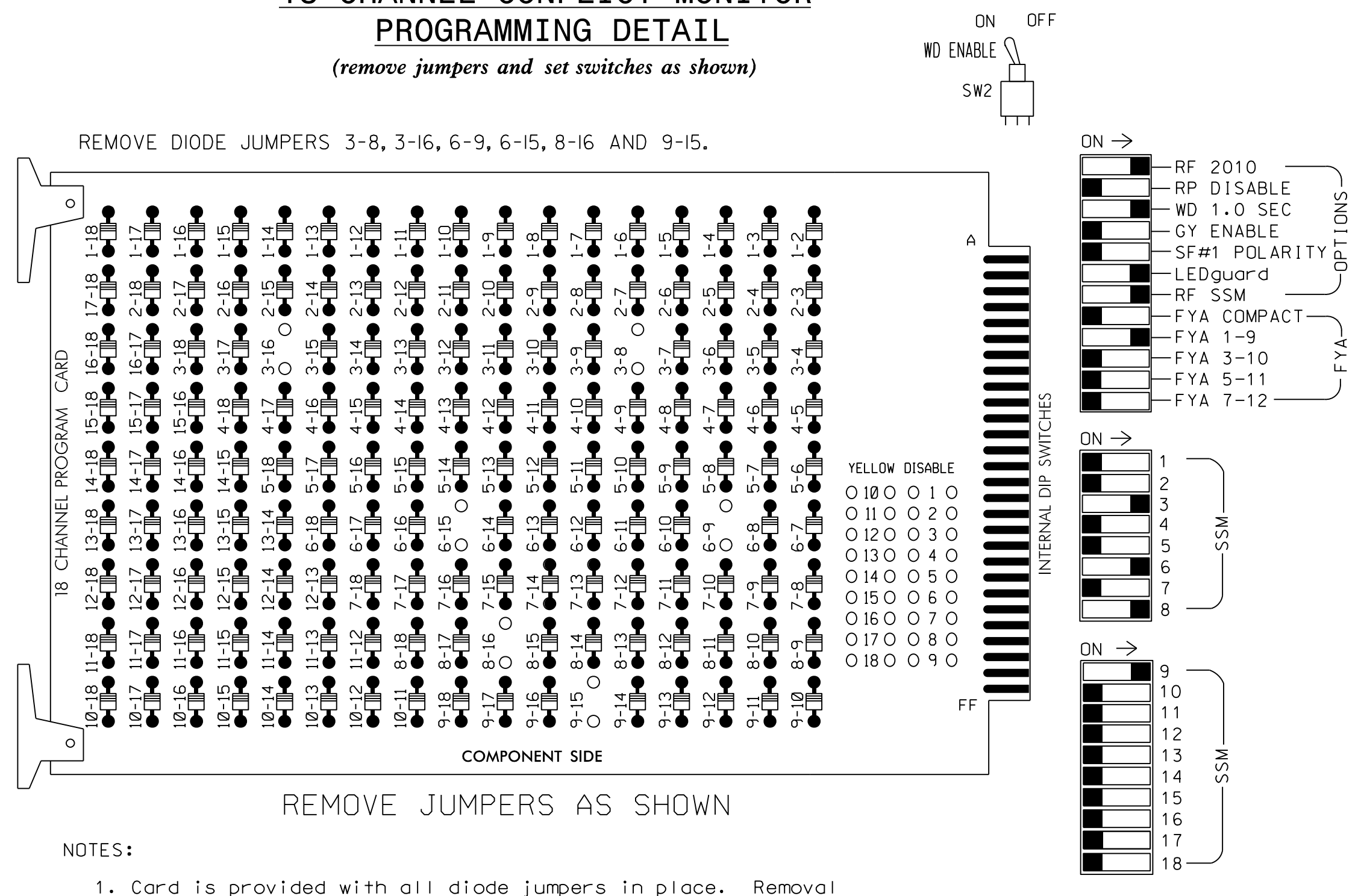


18 CHANNEL CONFLICT MONITOR PROGRAMMING DETAIL
(remove jumpers and set switches as shown)



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

NOTES

1. 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.
2. Program controller to start up in phase 6 green.
3. Enable simultaneous gap-out feature, on controller unit, for all phases.
4. Program phases 3 and 8, on controller unit, for dual entry.
5. Program phase 6, on controller unit, for volume density operation.
6. The cabinet and controller are part of the Raleigh Signal System.

EQUIPMENT INFORMATION

CONTROLLER.....2070LX
 CABINET.....332 W/ AUX
 SOFTWARE.....SE-WAC2070
 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

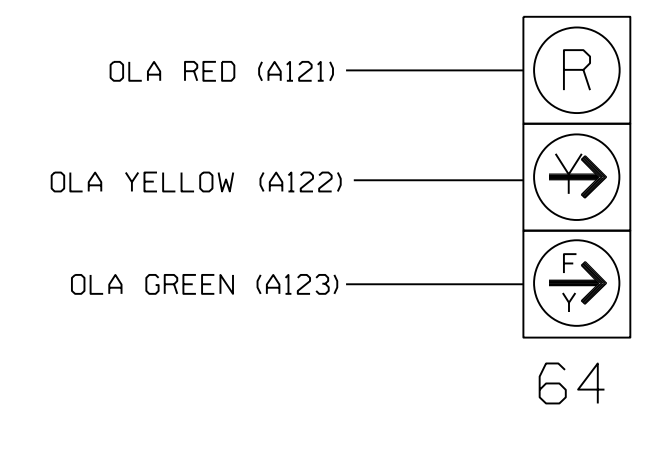
* Phase used for timing purposes only
 ** See sheet 2 for Overlap programming.

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	PED	3	4	PED	5	6	PED	7	8	PED	OLA	OLB	SPARE	OLC	OLD	SPARE
SIGNAL HEAD NO.	NU	NC	NU	31,32	NU	NU	NU	61,62, 63,65	P61, P62	NU	81,82, 83,84	P81, P82	64	NU	NU	NU	NU	NU
RED										134				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)

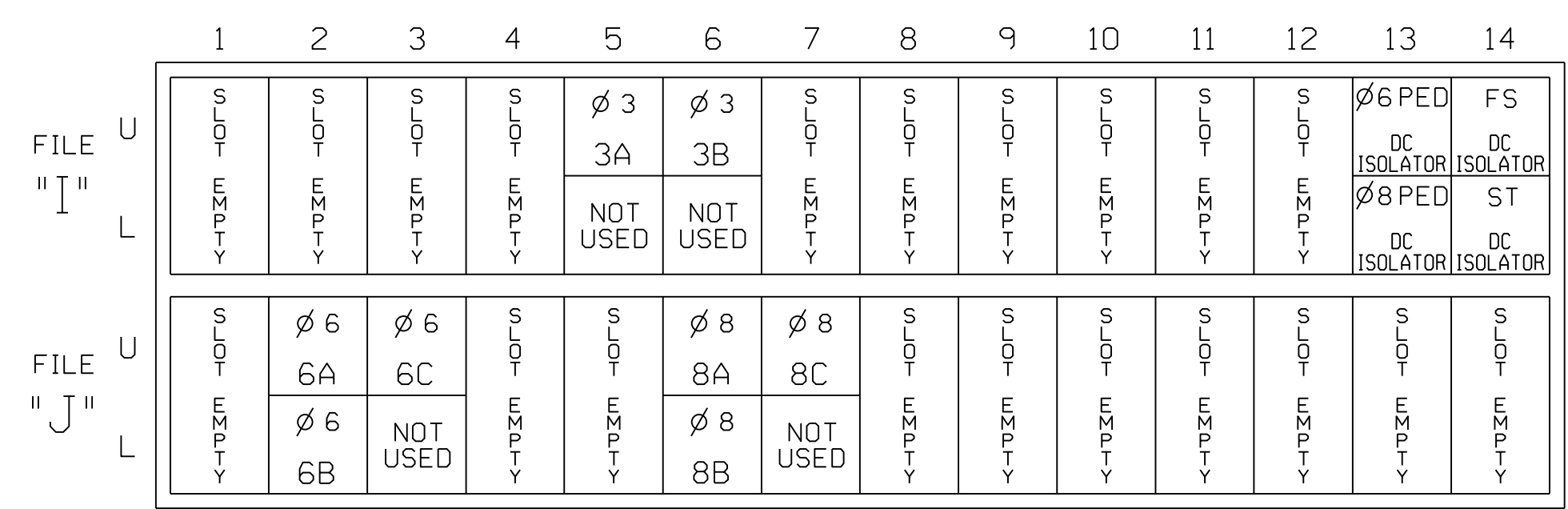


NOTE
 1. See sheet 2 for Protected & Permissive Phases programming.

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.

INPUT FILE POSITION LAYOUT
(front view)

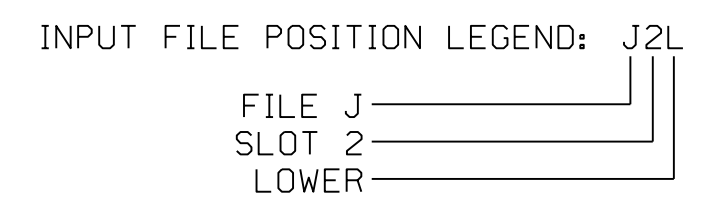


EX. : 1A, 2A, ETC. = LOOP NO.'S
 FS = FLASH SENSE
 ST = STOP TIME

INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	DETECTOR NO.	NEMA PHASE	DELAY TIME	EXTEND (STRETCH) TIME
3A	TB4-5,6	I5U	58	9	3		
3B	TB4-9,10	I6U	41	11	3		
6A	TB3-5,6	J2U	40	21	6		
6B	TB3-7,8	J2L	44	22	6		
6C	TB3-9,10	J3U	64	23	6		
8A	TB5-9,10	J6U	42	31	8		
8B	TB5-11,12	J6L	46	32	8		
8C	TB7-1,2	J7U	66	33	8		
PED PUSH BUTTONS							
P61,P62,P863	TB8-7,9	I13U	68	PED 6	6 PED		
P81,P82	TB8-8,9	I13L	70	PED 8	8 PED		

NOTE:
 INSTALL DC ISOLATORS IN INPUT FILE SLOTS I13.



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 05-1249
 DESIGNED: Jan 2023
 SEALED: 1/24/2023
 REVISED:



Final Design
 Electrical Detail - Sheet 1 of 2

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ELECTRICAL AND PROGRAMMING DETAILS FOR:

Prepared for the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

US 401 SB (Louisburg Road) at SR 2006 (Perry Creek Road)

Division 5 Wake County Raleigh

PLAN DATE: Jan 2023 REVIEWED BY: H.M. Surti

PREPARED BY: A. Ravipati REVIEWED BY:

REVISIONS	INIT.	DATE

SEAL

DocuSigned by:
Hwang M. Surti 1/24/2023
 AEC034481
 SIG. INVENTORY NO. 05-1249