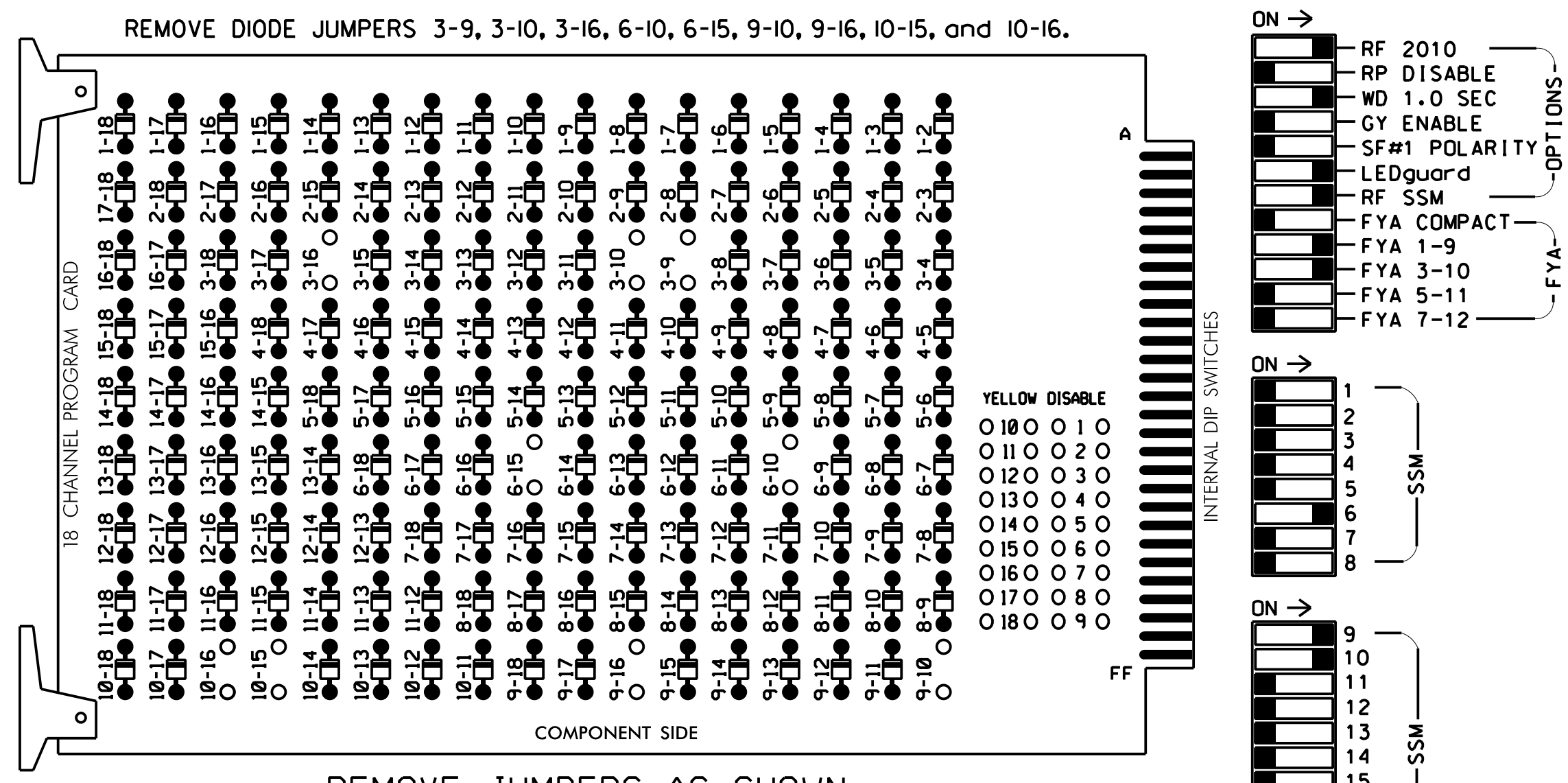


### 18 CHANNEL CONFLICT MONITOR PROGRAMMING DETAIL

(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.

### 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 phases 3 and 8 for Dual Entry.
- Enable Simultaneous Gap-Out for all Phases.
- Program phase 6 for Startup In Green.
- Program phase 6 for Yellow Flash, and overlaps 1 and 2 as a Wag Overlap.
- The cabinet and controller are part of the Wilmington Signal System.

### 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.	NU	NU	NU	31,32,33	NU	NU	NU	61,62	P61, P62	NU	NC	P81, P82	81,82,83	31,32,33	NU	NU	NU	NU
RED								134					A121					
YELLOW				*				135										
GREEN								136										
RED ARROW																		A124
YELLOW ARROW																		A122
FLASHING YELLOW ARROW																		A123
GREEN ARROW							118											A126
Hand									119				110					
Walking									121				112					

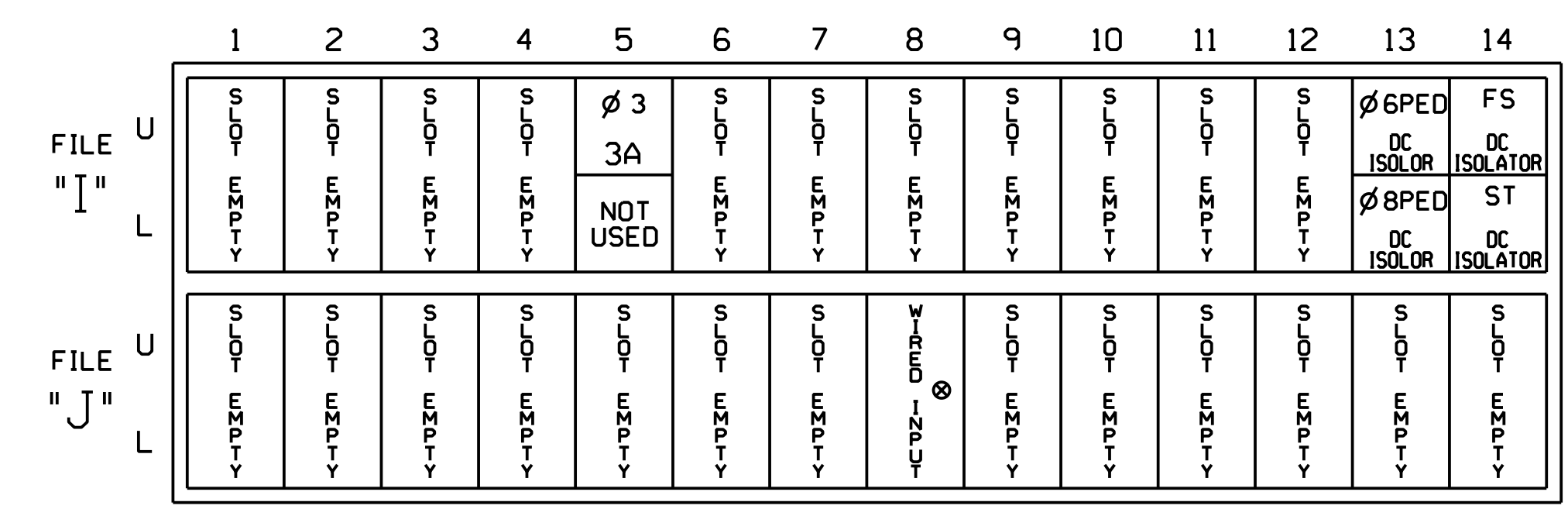
NU = Not Used  
 NC = Not Connected  
 \* Denotes install load resistor. See load resistor installation detail this sheet.  
 ★ See pictorial of head wiring in detail this sheet.

### EQUIPMENT INFORMATION

CONTROLLER.....2070  
 CABINET.....332 W/ AUX  
 SOFTWARE.....ECONOLITE OASIS  
 CABINET MOUNT.....BASE  
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE  
 LOAD SWITCHES USED.....S4,S8,S9,S12,AUX S1,AUX S2  
 PHASES USED.....3,6,8\*  
 OVERLAP "A".....8  
 OVERLAP "B".....3+6  
 OVERLAP "C".....NOT USED  
 OVERLAP "D".....NOT USED  
 \* PHASE USED FOR TIMING PURPOSES ONLY

### INPUT FILE POSITION LAYOUT

(front view)

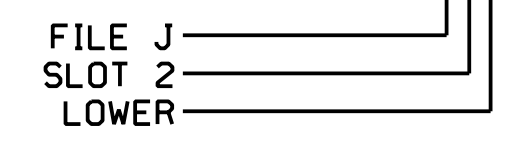


### INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT ASSIGNMENT NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND	FULL TIME DELAY	STRETCH TIME	DELAY TIME
3A <sup>1</sup>	TB4-5,6	I5U	58	20*	3	3	Y	Y			10
	-	J8U	50	12*	28	6	Y	Y			
	-	I5U	58	20*	53	3	Y	Y			
PED PUSH BUTTONS											
P61,P62	TB8-7,9	I13U	68	30	PED 6	6 PED					
P81,P82	TB8-8,9	I13L	70	32	PED 8	8 PED					

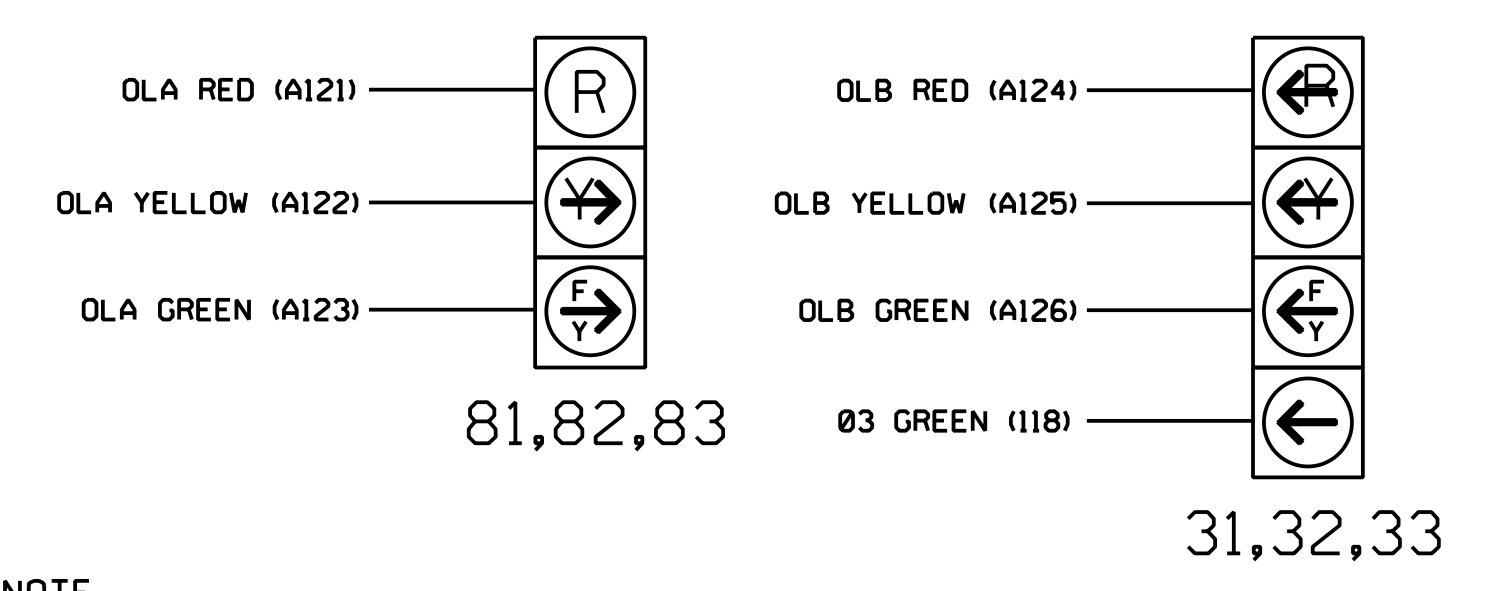
\* See Input Page Assignment programming details on sheet 3.  
<sup>1</sup> Add jumper from I5-W to J8-W, on rear of input file.

### INPUT FILE POSITION LEGEND: J2L



### FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



**NOTE**

The sequence display for signal heads 31, 32, and 33 require special logic programming. See sheet 2 for programming instructions.

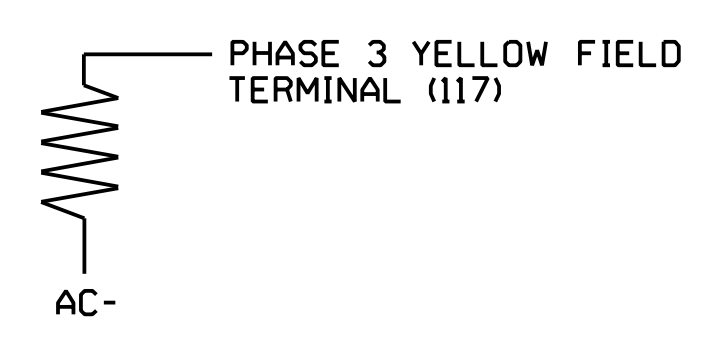
### COUNTDOWN PEDESTRIAN SIGNAL OPERATION

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.

### LOAD RESISTOR INSTALLATION DETAIL

(install resistor as shown below)

ACCEPTABLE VALUES	
VALUE (ohms)	WATTAGE
1.5K - 1.9K	25W (min)
2.0K - 3.0K	10W (min)



Electrical Detail - Sheet 1 of 4  
 New Installation

**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**

Prepared for: **SR 2048 (Gordon Rd) Westbound at Daniel Boone Trl**

Division 3 New Hanover County Wilmington

PLAN DATE: March 2024 REVIEWED BY: N.K. Vlanich  
 PREPARED BY: E.E. Tiller REVIEWED BY: N.R. Simmons

REVISIONS: \_\_\_\_\_ INITI. \_\_\_\_\_ DATE \_\_\_\_\_

DocuSigned by: **Melisha R. Simmons** 5/17/2024  
 SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_  
 SIG. INVENTORY NO. 03-1232

**HNTB** HNTB NORTH CAROLINA, P.C.  
 343 E. Six Forks Road, Suite 200  
 Raleigh, North Carolina 27609  
 NC License No: C-1554  
 (919) 546-8997

750 N. Greenfield Pkwy, Corner, NC 27529

SEAL  
 NORTH CAROLINA PROFESSIONAL ENGINEER  
 SEAL 031664  
 MELISHA R. SIMMONS