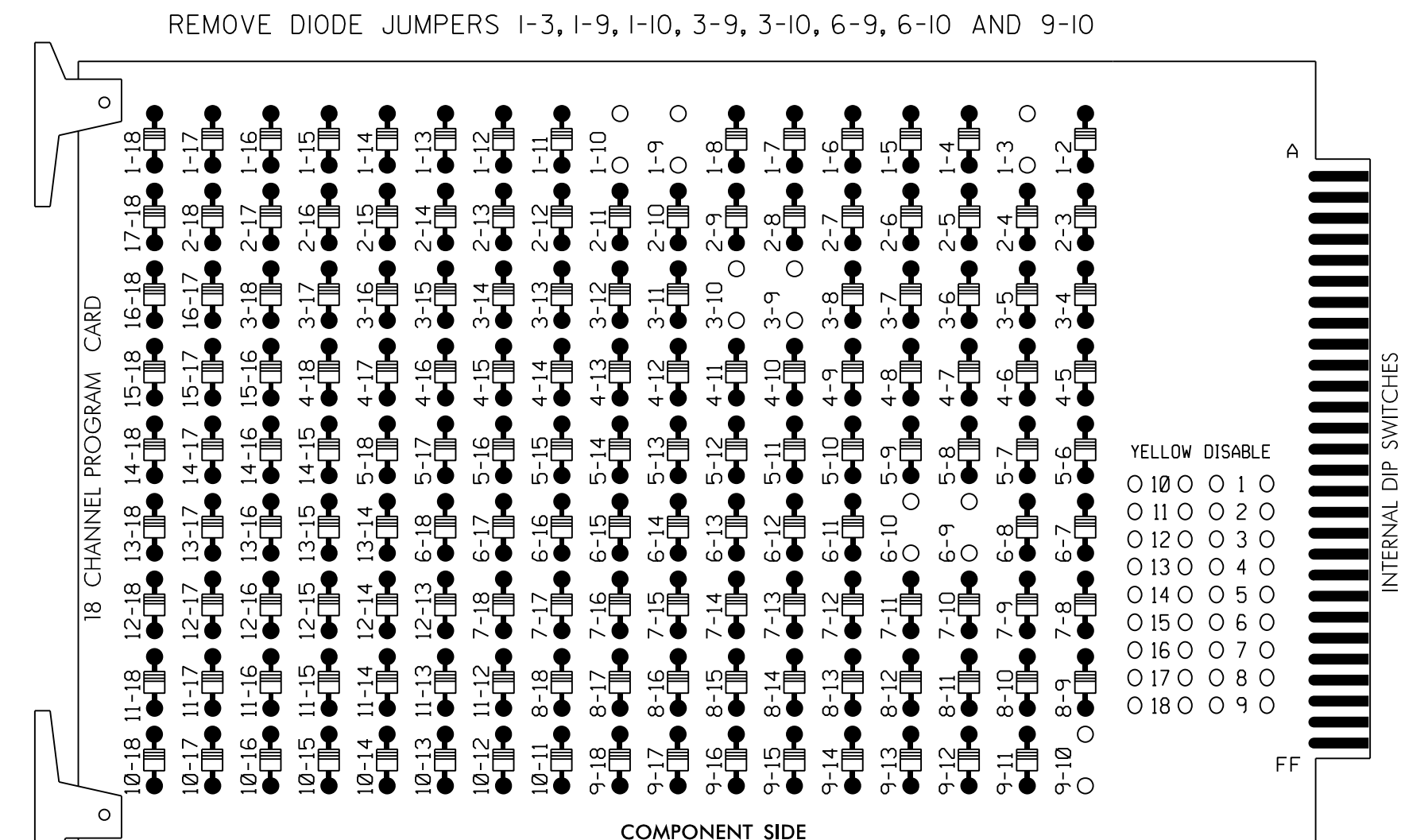


**18 CHANNEL CONFLICT MONITOR PROGRAMMING DETAIL**  
(remove jumpers and set switches as shown)



- 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.
- Enable Simultaneous Gap-Out for all Phases.
- Program phase 6 for Variable Initial and Gap Reduction.
- Program phase 6 for Startup In Green.
- Program phase 6 for Yellow Flash.
- The cabinet and controller are part of the Winston-Salem Signal System.

**EQUIPMENT INFORMATION**

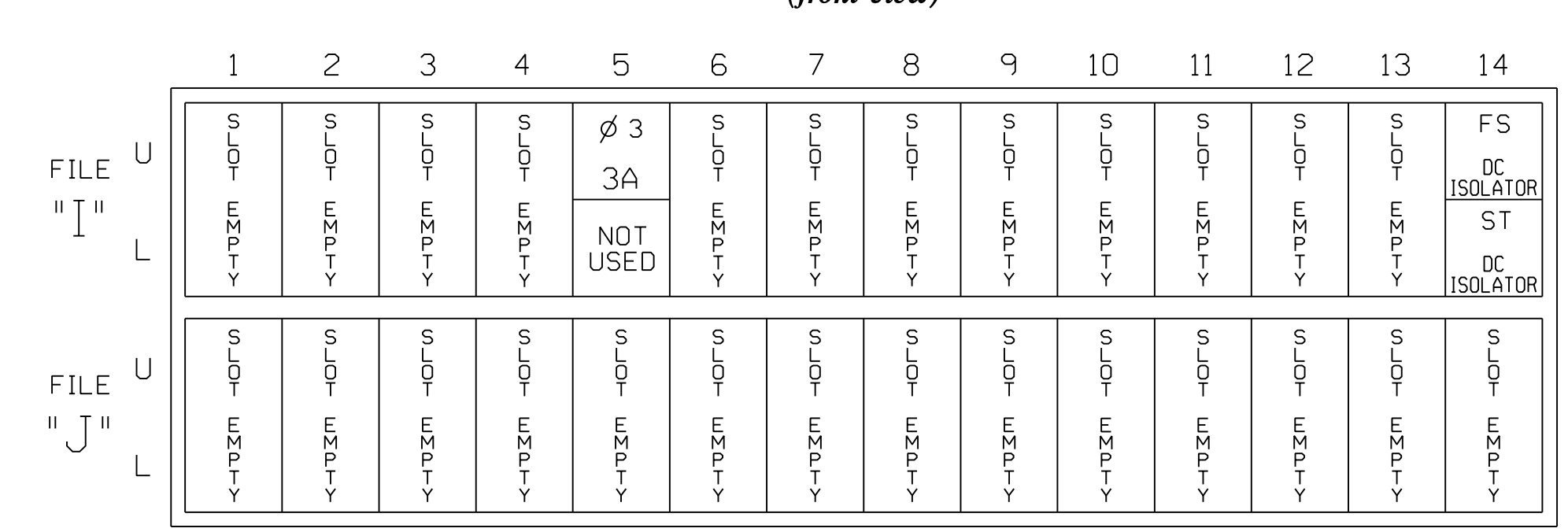
CONTROLLER.....2070  
 CABINET.....332 w/ AUX  
 SOFTWARE.....ECONOLITE OASIS  
 CABINET MOUNT.....BASE  
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE  
 LOAD SWITCHES USED.....S1,S4,S8,AUX S1,AUX S2  
 PHASES USED.....3,6  
 OVERLAP "A".....3+6  
 OVERLAP "B".....3+6  
 OVERLAP "C".....NOT USED  
 OVERLAP "D".....NOT USED  
 OVERLAP "G".....3

**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	OLG	2	2 PED	3	4	4 PED	5	6	6 PED	7	8	8 PED	OLA	OLB	SPARE	OLC	OLD	SPARE
SIGNAL HEAD NO.	32★	NU	NU	31★	NU	NU	NU	61,62	NU	NU	NU	NU	32★	31★	NU	NU	NU	NU
RED								134										
YELLOW	*			*				135										
GREEN																		
RED ARROW													A121	A124				
YELLOW ARROW													A122	A125				
FLASHING YELLOW ARROW													A123	A126				
GREEN ARROW	127							136										

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

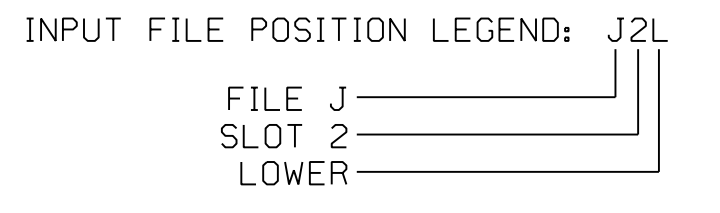
**INPUT FILE POSITION LAYOUT**  
(front view)



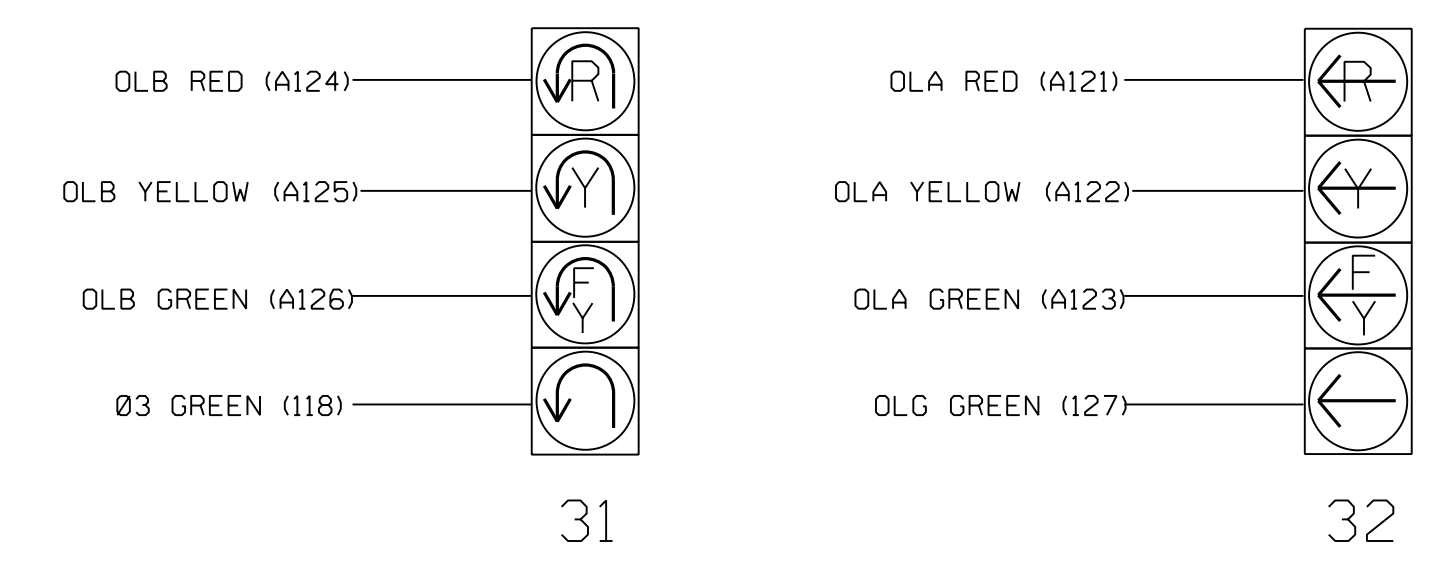
**INPUT FILE CONNECTION & PROGRAMMING CHART**

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	TB4-5,6	15U	58	20	3	3	Y	Y			15
	-	15U	58	20★	53	3	Y	Y			

★ See Input Assignment Programming Details for Alternate Phasing on sheet 4.



**FYA SIGNAL WIRING DETAIL**  
(wire signal heads as shown)



NOTE  
 The sequence display for these signals require special logic programming. See sheet 2 for programming instructions.

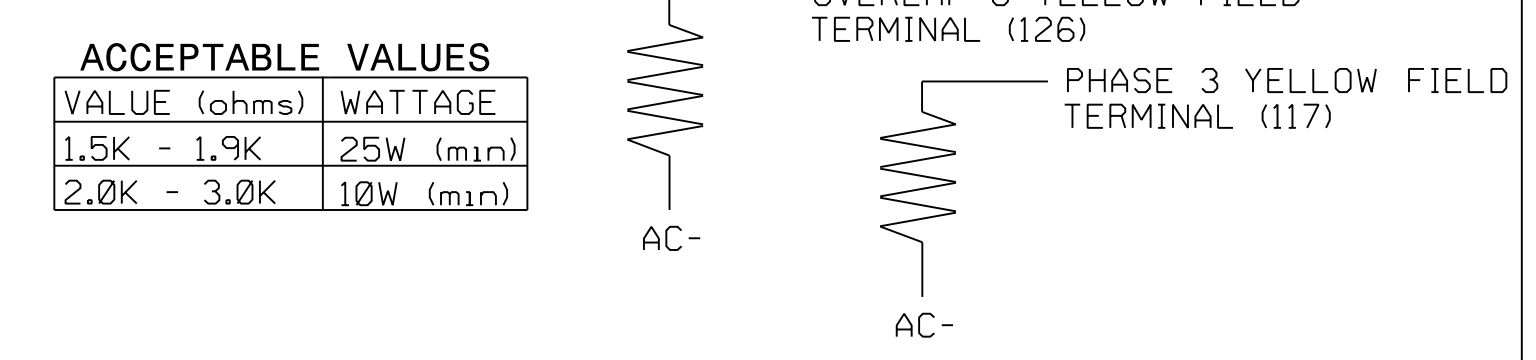
THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 09-0982T  
 DESIGNED: February 2024  
 SEALED: February 12, 2024  
 REVISED:

**SPECIAL DETECTOR NOTE**

Install a video detection system for vehicle detection for zones 3A and 6A. Perform installation according to manufacturer's directions and NCDOT engineer-approved mounting locations to accomplish the detection schemes shown on the Signal Design Plans.

For Detection Zone 3A, the equipment placement and slots are typical for a NCDOT installation. Inputs associated with these slots are compatible with time of day instructions located on sheets 2, 3 and 4.

**LOAD RESISTOR INSTALLATION DETAIL**



New Installation - Temporary Design (TMP Phases II-III)  
 Electrical Detail - Sheet 1 of 5

Prepared For the Offices of:  
 Transportation, Mobility and Safety Division  
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 Signal Management Section

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 NC License No. F-0112  
 www.RK&K.com  
 Responsive People | Creative Solutions

**US 158 WB (Reidsville Rd.)**  
 at  
**U-Turn East of SR 2662 (Old Greensboro Rd.)**  
 Division 9 Forsyth County Winston-Salem  
 PLAN DATE: February 2024 REVIEWED BY: DT Sears  
 PREPARED BY: WP Erickson-Jones REVIEWED BY:

REVISIONS	INIT.	DATE

DocuSigned by:  
 Porter Jones  
 2/12/2024  
 SIGNATURE DATE  
 SIG. INVENTORY NO. 09-0982T

SEAL  
 NORTH CAROLINA PROFESSIONAL ENGINEER  
 SEAL 056142  
 W. PORTER JONES

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

2/12/2024  
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 wplones