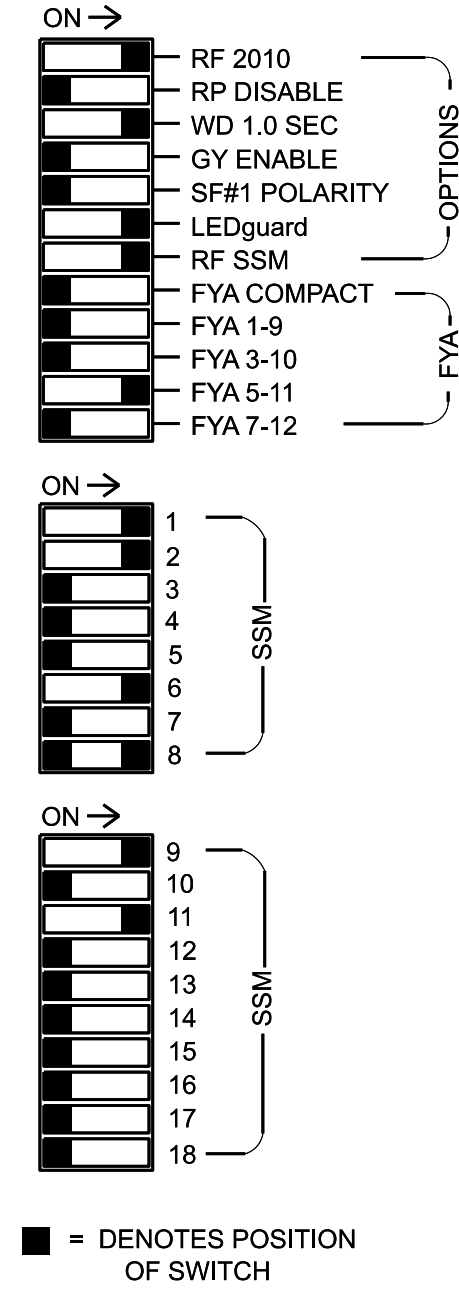
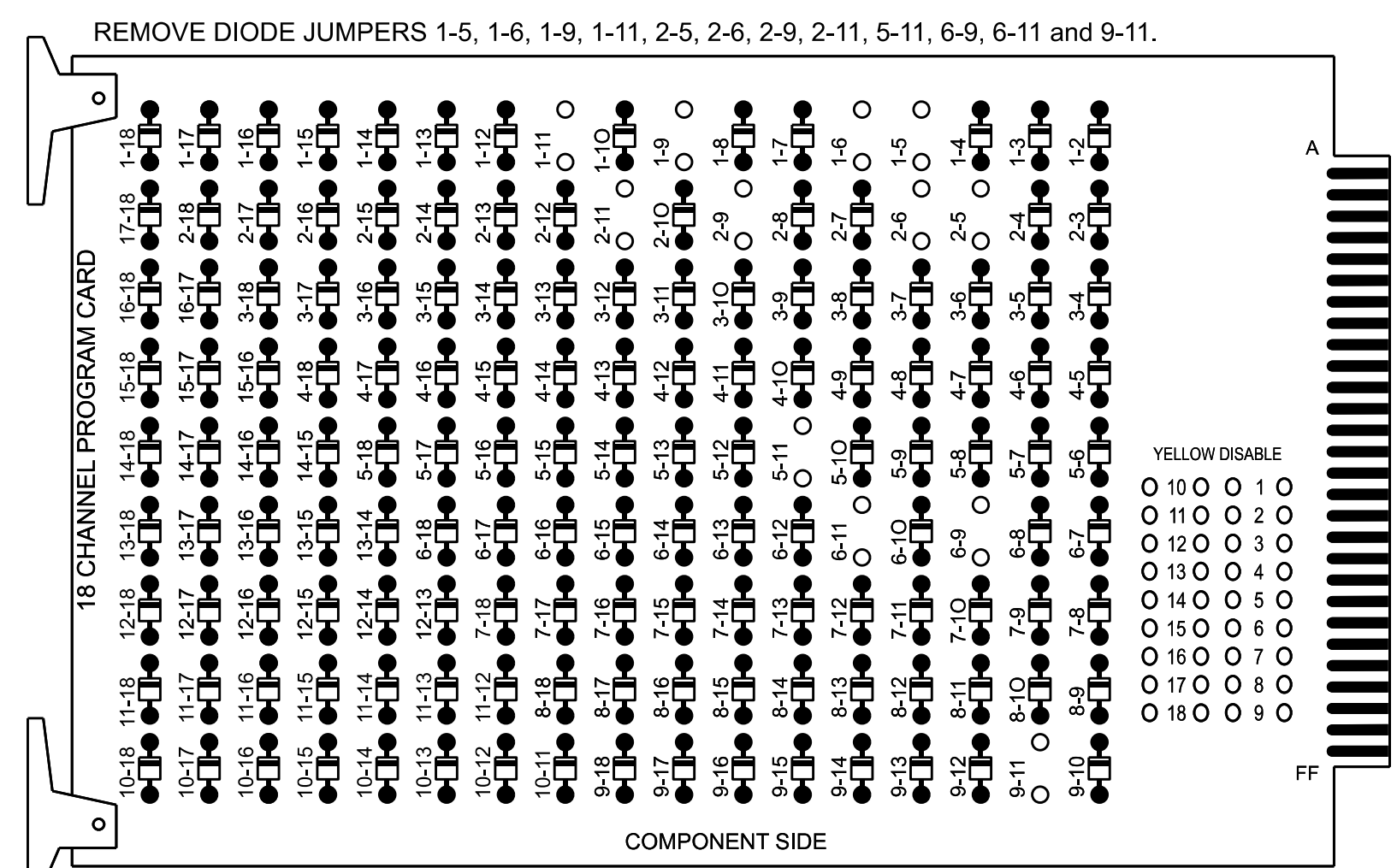


18 CHANNEL CONFLICT MONITOR PROGRAMMING DETAIL
(remove jumpers and set switches as shown)



- 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 phases 2 and 6 for Variable Initial and Gap Reduction.
- Disable all phases for Startup In Green.
- Program phases 2 and 6 as First Phases.
- Disable all phases for Yellow Flash.
- Program overlap 1 as Wag Overlaps.
- 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,S2,S7,S8,S11,AUX S1,AUX S4
 PHASES USED.....1,2,5,6,8
 OVERLAP "A".....6
 OVERLAP "B".....NOT USED
 OVERLAP "C".....5+6
 OVERLAP "D".....NOT USED

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	82	21,22	NU	NU	NU	51	61,62	NU	NU	81	82,83	63	NU	NU	51	NU	NU
RED			128					134			107	107	A121					
YELLOW			129				*	135			108	108						
GREEN			130					136			109	109						
RED ARROW	125																	A114
YELLOW ARROW	126	126											A122					A115
FLASHING YELLOW ARROW													A123					A116
GREEN ARROW	127	127						133			109							

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

INPUT FILE POSITION LAYOUT (front view)

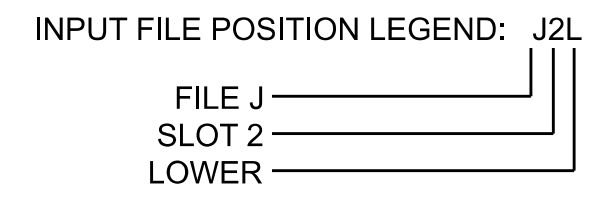
FILE	1	2	3	4	5	6	7	8	9	10	11	12	13	14
U	FS	FS	FS	W	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS
L	ST	ST	ST	DC ISOLATOR	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST
U	5A	5A	5A	5A	5A	5A	5A	5A	5A	5A	5A	5A	5A	5A
L	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED

EX : 1A, 2A, ETC. = LOOP NO.'S
 FS = FLASH SENSE
 ST = STOP TIME
 * Wired Input - Do not populate slot with detector card

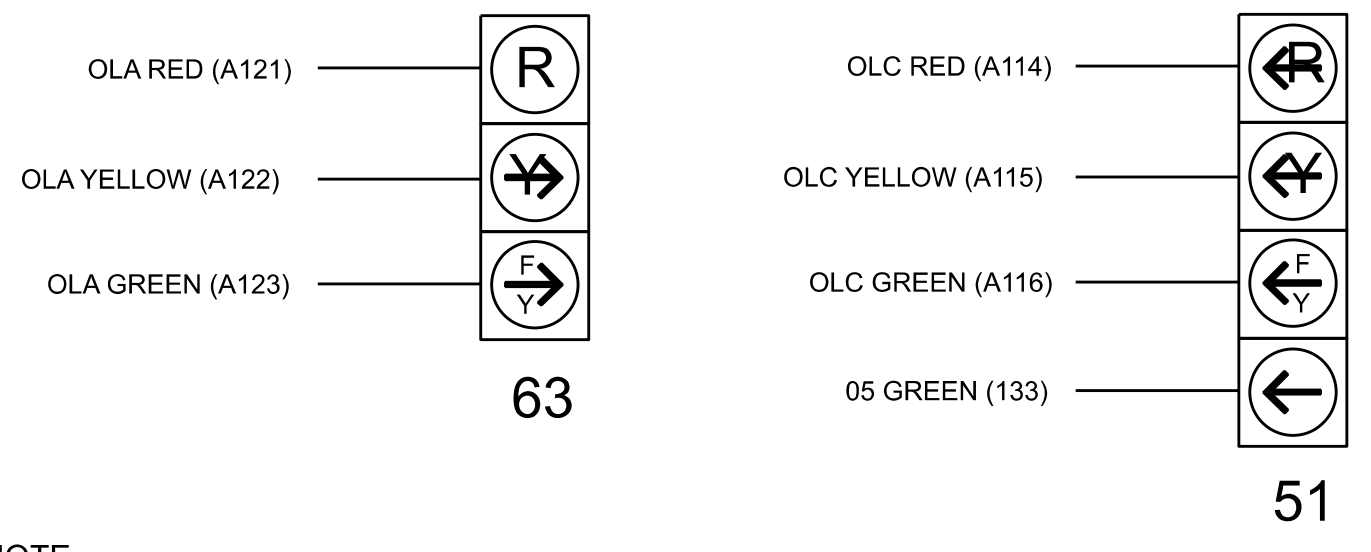
INPUT FILE CONNECTION & PROGRAMMING CHART

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
5A ¹	TB3-1,2	J1U	55	17	5	5	Y	Y			15
	-	I4U	47	9*	22	2	Y	Y	Y		3
	-	J1U	55	17*	55	5	Y	Y			

¹ Add jumper from J1-W to I4-W, on rear of input file.
 * See Input Page Assignment programming details on sheet 3.



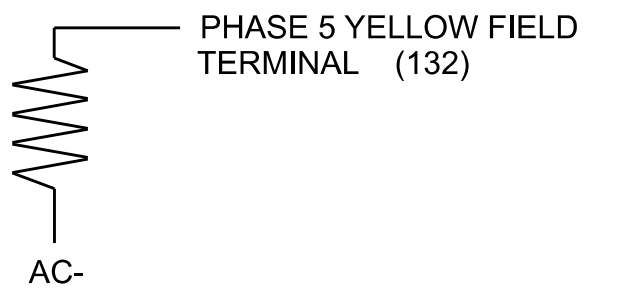
FYA SIGNAL WIRING DETAIL
(wire signal heads as shown)



NOTE
 The sequence display for signal head 51 requires special logic programming. See sheet 2 for programming instructions.

LOAD RESISTOR INSTALLATION DETAIL
(install resistors as shown below)

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



SPECIAL DETECTOR NOTE

Install a non-intrusive 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.

For detection zone 5A, detector card placement and slots reserved for wired inputs are typical for a NCDOT installation. Inputs associated with this slot are compatible with time of day instructions located on sheets 3 and 4.

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 09-0798T1
 DESIGNED: December 2025
 SEALED: 2-12-26
 REVISED: N/A

Electrical Detail - Sheet 1 of 4

Electrical and Programming Details For: **SR 4000 (University Parkway) at N. Pattern Avenue and US 52 NB Ramps**

Prepared in the Offices of: **Forsyth County Transportation Mobility and Safety Division**

Division 9, Forsyth County, Winston-Salem

Plan Date: February 2026, Reviewed By: James Peterson

Prepared By: James Peterson, Reviewed By: Keith M. Mims

750 N. Greenfield Pkwy, Garner, NC 27529

02/12/2026

SIG. INVENTORY NO. 09-0798T1