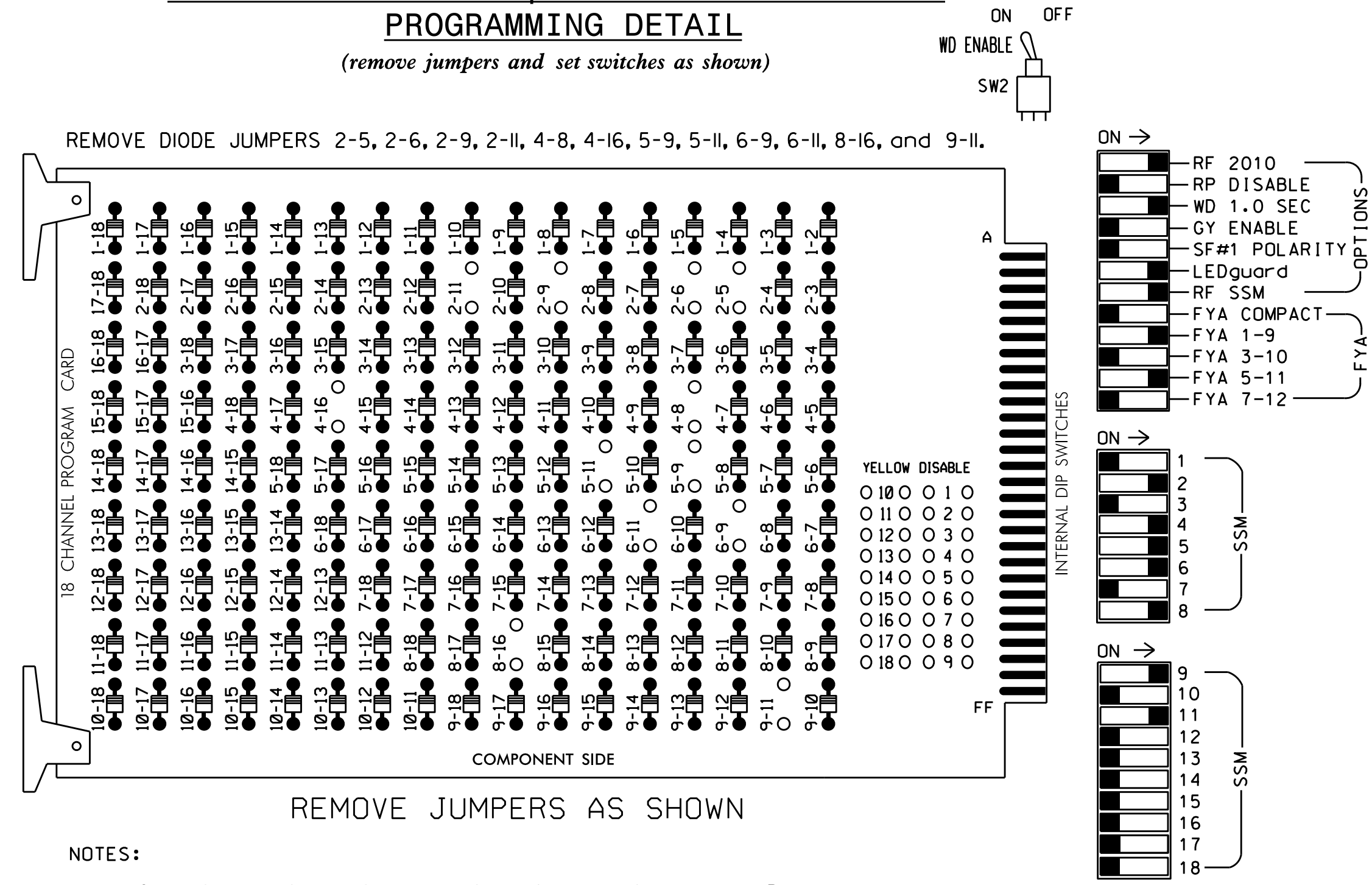


**EDI MODEL 2018ECLIP-NC CONFLICT MONITOR PROGRAMMING DETAIL**  
(remove jumpers and set switches as shown)



- REMOVE DIODE JUMPERS 2-5, 2-6, 2-9, 2-11, 4-8, 4-16, 5-9, 5-11, 6-9, 6-11, 8-16, and 9-11.
- REMOVE JUMPERS 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.
  - Integrate monitor with Ethernet network in cabinet.

- 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 4 and 8 for Dual Entry.
  - Enable Simultaneous Gap-Out for all phases.
  - Program phases 2 and 6 for Variable Initial and Gap Reduction.
  - Program phases 2 and 6 for Start Up In Green.
  - Program phase 8 for 'STARTUP PED CALL'.
  - Program phases 2 and 6 for Yellow Flash, and overlap 1 as Wag Overlaps.
  - The cabinet and controller are part of the Asheville Signal System.

**EQUIPMENT INFORMATION**

CONTROLLER.....2070E  
 CABINET.....332 W/ AUX  
 SOFTWARE.....ECONOLITE OASIS  
 CABINET MOUNT.....BASE  
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE  
 LOAD SWITCHES USED.....S2,S5,S7,S8,S11,S12,AUX S1,AUX S4  
 PHASES USED.....2,4,5,6,8,8PED  
 OVERLAP "A".....2  
 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.	NU	21,22	NU	NU	41,42	NU	42	51*	62,63	NU	NU	81,82	P81, P82	61*	NU	NU	51*	NU	NU	
RED	128				101		*		134			107								
YELLOW		129				102				135			108							
GREEN			130				103				136			109						
RED ARROW															A121			A114		
YELLOW ARROW									132						A122			A115		
FLASHING YELLOW ARROW															A123			A116		
GREEN ARROW								133	133											
Hand icon																			110	
Walking person icon																				112

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)**

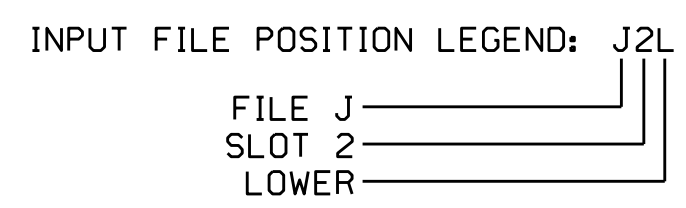
FILE "I"	1	2	3	4	5	6	7	8	9	10	11	12	13	14
U	S	∅2/SYS	∅2/SYS	∅4	∅4	∅4	∅4	∅4	∅4	∅4	∅4	∅4	∅4	∅4
L	2A/S1	2A/S1	2B/S2	∅8 PED	∅8 PED	∅8 PED	∅8 PED	∅8 PED	∅8 PED	∅8 PED	∅8 PED	∅8 PED	∅8 PED	∅8 PED
U	∅5	∅5	∅6/SYS	∅8	∅8	∅8	∅8	∅8	∅8	∅8	∅8	∅8	∅8	∅8
L	5A	5B	6A/S3	8A,8B	8A,8B	8A,8B	8A,8B	8A,8B	8A,8B	8A,8B	8A,8B	8A,8B	8A,8B	8A,8B
U	NOT USED	NOT USED	∅6/SYS	∅6/S4	∅6/S4	∅6/S4	∅6/S4	∅6/S4	∅6/S4	∅6/S4	∅6/S4	∅6/S4	∅6/S4	∅6/S4
L	NOT USED	NOT USED	6B/S4	6B/S4	6B/S4	6B/S4	6B/S4	6B/S4	6B/S4	6B/S4	6B/S4	6B/S4	6B/S4	6B/S4

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

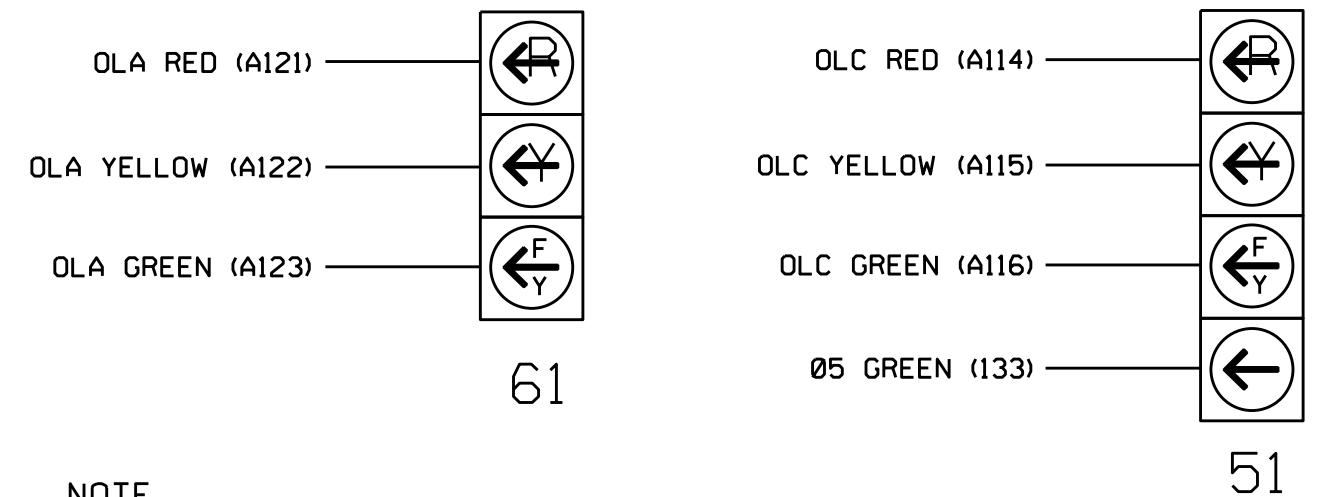
**INPUT FILE CONNECTION & PROGRAMMING CHART**

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
2A/S1	TB2-5,6	I2U	39	1	2	2/SYS	Y	Y			
2B/S2	TB2-7,8	I2L	43	5	12	2/SYS	Y	Y			
4A	TB4-9,10	I6U	41	3	4	4	Y	Y			
5A <sup>1</sup>	TB3-1,2	J1U	55	17	5	5	Y	Y			15
		I4U	47	9	22	2	Y	Y	Y		3
5B	TB3-5,6	J2U	40	2	6	5	Y	Y			15
6A/S3	TB3-9,10	J3U	64	26	36	6/SYS	Y	Y			
6B/S4	TB3-11,12	J3L	77	39	46	6/SYS	Y	Y			
8A,8B	TB5-9,10	J6U	42	4	8	8	Y	Y			10
PED PUSH BUTTONS											
P81,P82	TB8-8,9	I13L	70	32		PED 8	8 PED				

<sup>1</sup>Add jumper from J1-W to I4-W. on rear of input file.

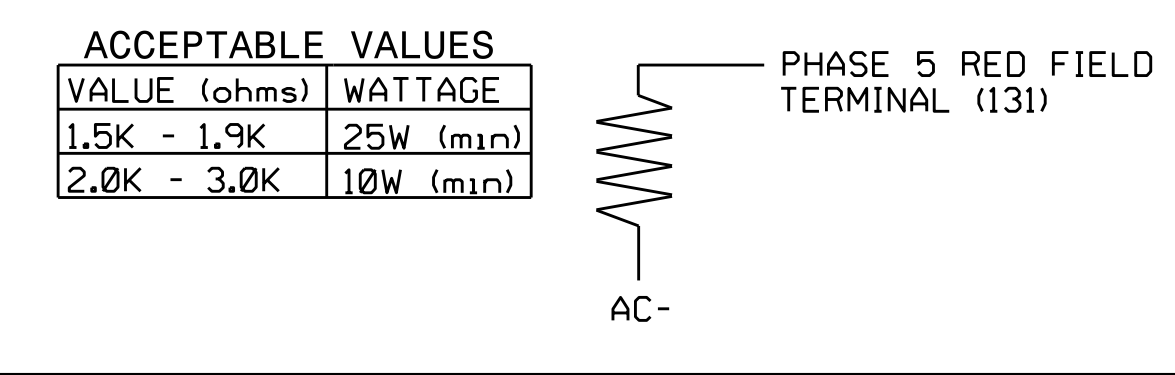


**FYA SIGNAL WIRING DETAIL (wire signal heads as shown)**



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

**LOAD RESISTOR INSTALLATION DETAIL (install resistor as shown below)**



Electrical Detail - Sheet 1 of 2

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared In the Offices of:  
 TRANSPORTATION MOBILITY AND SAFETY ADMINISTRATION  
 FEDERAL BUREAU OF INVESTIGATION  
 U.S. DEPARTMENT OF JUSTICE  
 Signal Management Section  
 750 N. Greenfield Pkwy, Garner, NC 27529

US 70 (Tunnel Road) at SR 2758 (Oteen Church Road) / V. A. Hospital Entrance

Division 13 Buncombe County Asheville

PLAN DATE: July 2016 REVIEWED BY: BAS  
 PREPARED BY: S. Armstrong REVIEWED BY:

REVISIONS: INIT. DATE

Seal: KEITH M. MINNIS, PROFESSIONAL ENGINEER, No. 036880

DocuSigned by: Keith M. Minnis 8/30/2016

SIG. INVENTORY NO. 13-0279

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