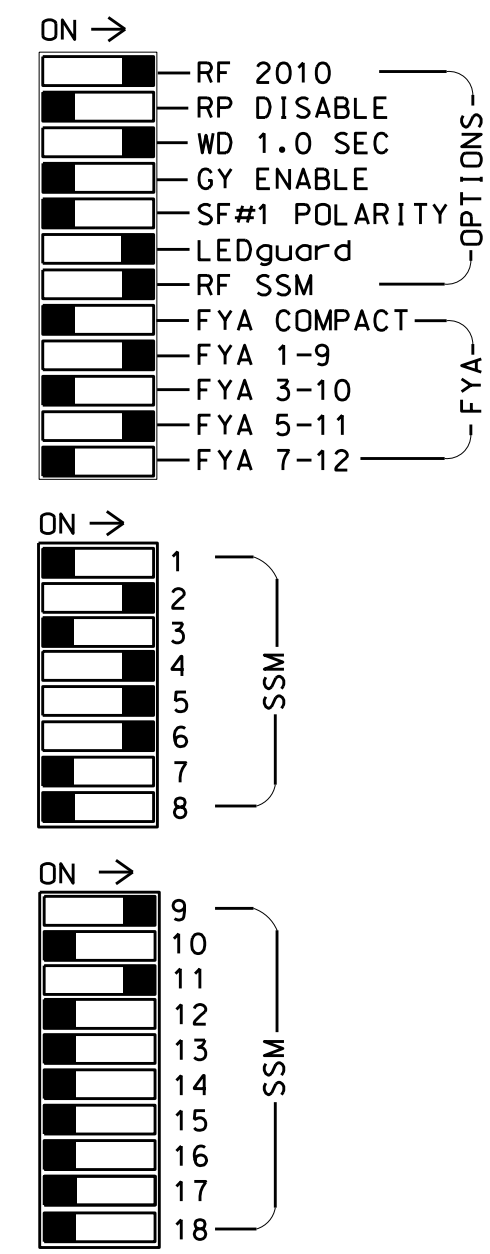
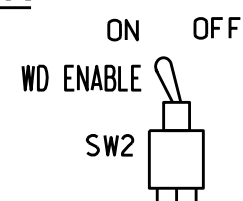
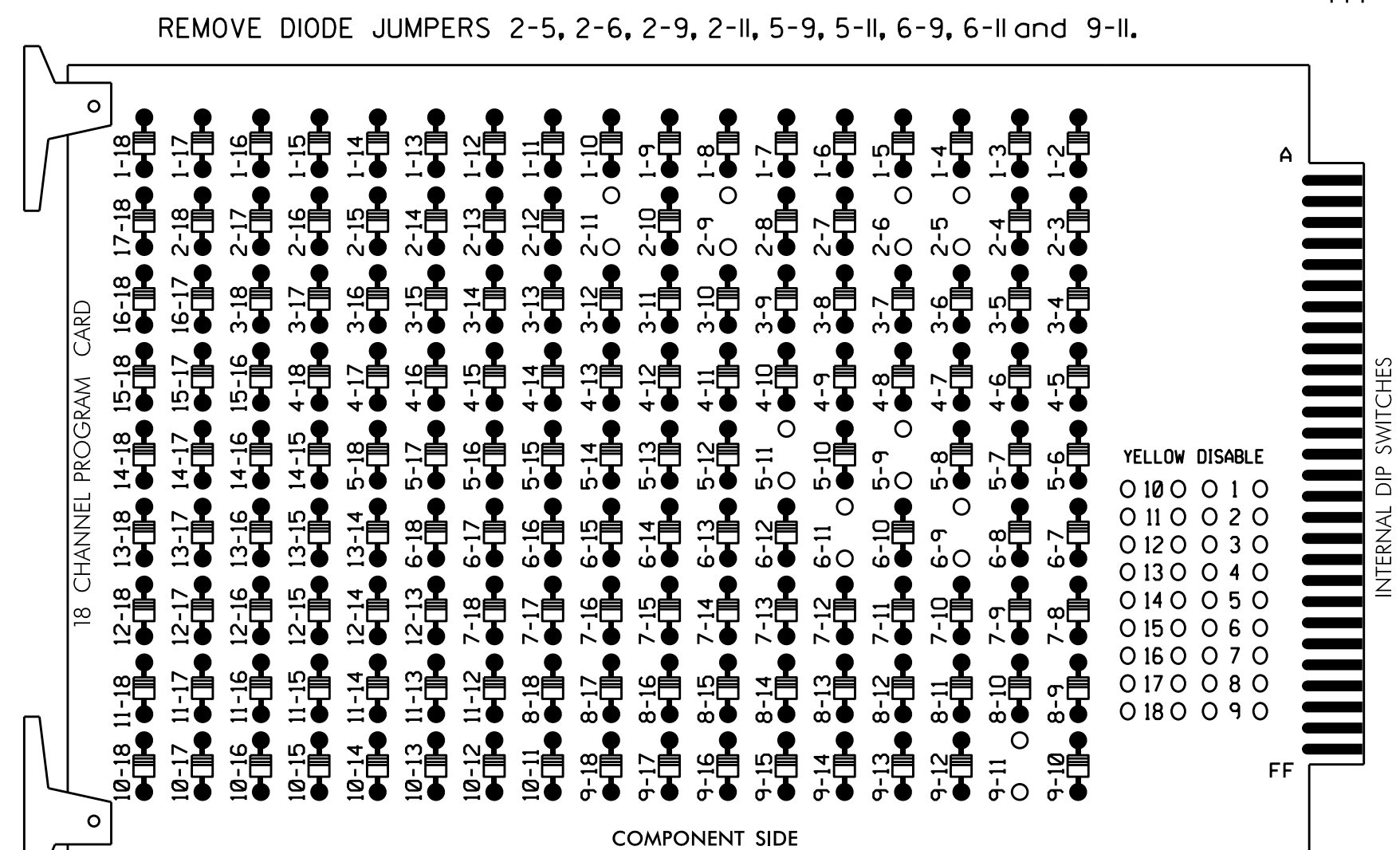


**EDI MODEL 2018EClip-NC CONFLICT MONITOR**  
**PROGRAMMING DETAIL**

(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.
- 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.
- Enable Simultaneous Gap-Out for all phases.
- Program phases 2 and 6 for Start Up In Green.
- 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,S3\*,S5,S7,S8,S9\*,  
 AUX S1,AUX S4  
 PHASES USED.....2,4,5,6  
 OVERLAP "A".....2  
 OVERLAP "B".....NOT USED  
 OVERLAP "C".....5+6  
 OVERLAP "D".....NOT USED  
 \* Used for Advance Beacon only.

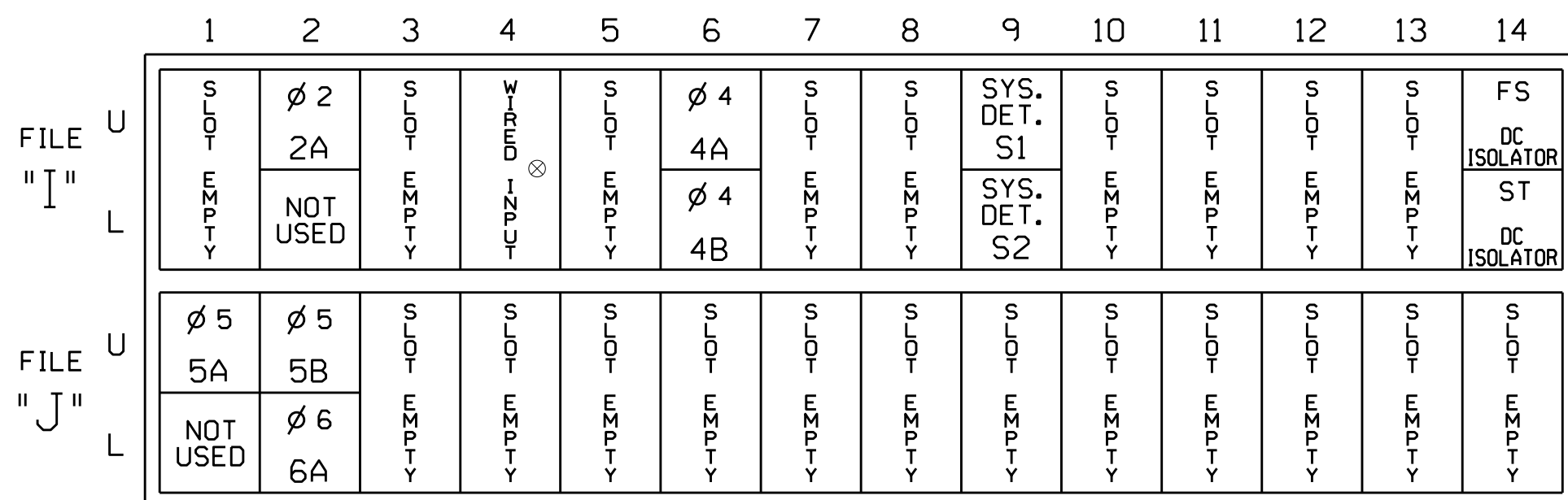
**SIGNAL HEAD HOOK-UP CHART**

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 ADVANCE BEACON	3	4	4 PED	5	6	6 PED ADVANCE BEACON	7	8	8 PED	OLA	OLB	SPARE	OLC	OLD	SPARE	
SIGNAL HEAD NO.	NU	21,22	NU	23	NU	41,42	63	NU	42	51*	62,63	NU	24	NU	NU	61*	NU	51*	NU
RED		128			101			*		134									
YELLOW		129			102					135									
GREEN		130			103					136									
RED ARROW																A121		A114	
YELLOW ARROW						102		132								A122		A115	
FLASHING YELLOW ARROW																A123		A116	
GREEN ARROW						103		133	133										
PED YELLOW																			

NU = Not Used  
 \* Denotes install load resistor. See load resistor installation detail this sheet.  
 \* See pictorial of head wiring in detail below.  
 Note: Special Advance Beacons will be wired to S3-Y (2 PED YELLOW) and S9-Y (6 PED YELLOW). See wiring and programming detail on sheet 3 of 3 of this electrical detail.

**INPUT FILE POSITION LAYOUT**

(front view)



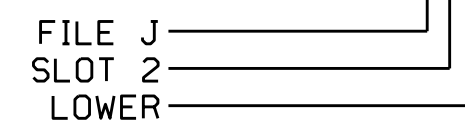
EX.: 1A, 2A, ETC. = LOOP NO.'S  
 FS = FLASH SENSE  
 ST = STOP TIME  
 ⊗ Wired Input - Do not populate slot with detector card

**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	TB2-5,6	I2U	39	1	2	2	Y	Y			
4A	TB4-9,10	I6U	41	3	4	4	Y	Y			
4B	TB4-11,12	I6L	45	7	14	4	Y	Y			
* S1	TB6-9,10	I9U	60	22	11	SYS					
* S2	TB6-11,12	I9L	62	24	13	SYS					
5A <sup>1</sup>	TB3-1,2	J1U	55	17	5	5	Y	Y			15
5B	TB3-5,6	J2U	40	2	6	5	Y	Y			15
6A	TB3-7,8	J2L	44	6	16	6	Y	Y			

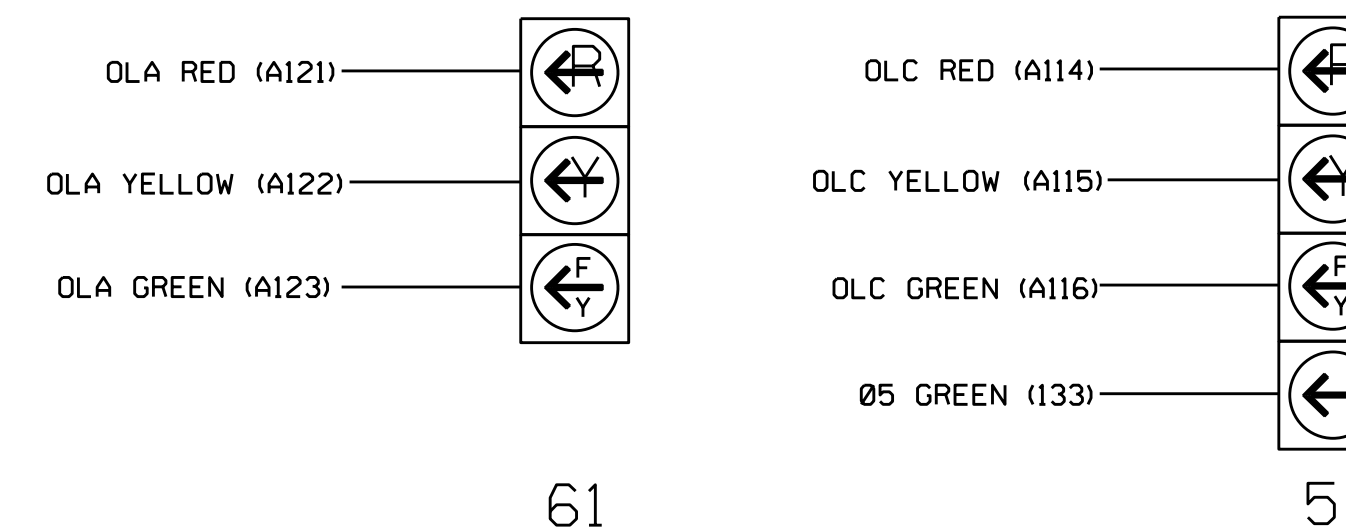
- <sup>1</sup>Add jumper from J1-W to I4-W, on rear of input file.  
 \* System detector only. Remove the vehicle phase assigned to this detector in the default programming.

**INPUT FILE POSITION LEGEND: J2L**



**FYA SIGNAL WIRING DETAIL**

(wire signal heads as shown)

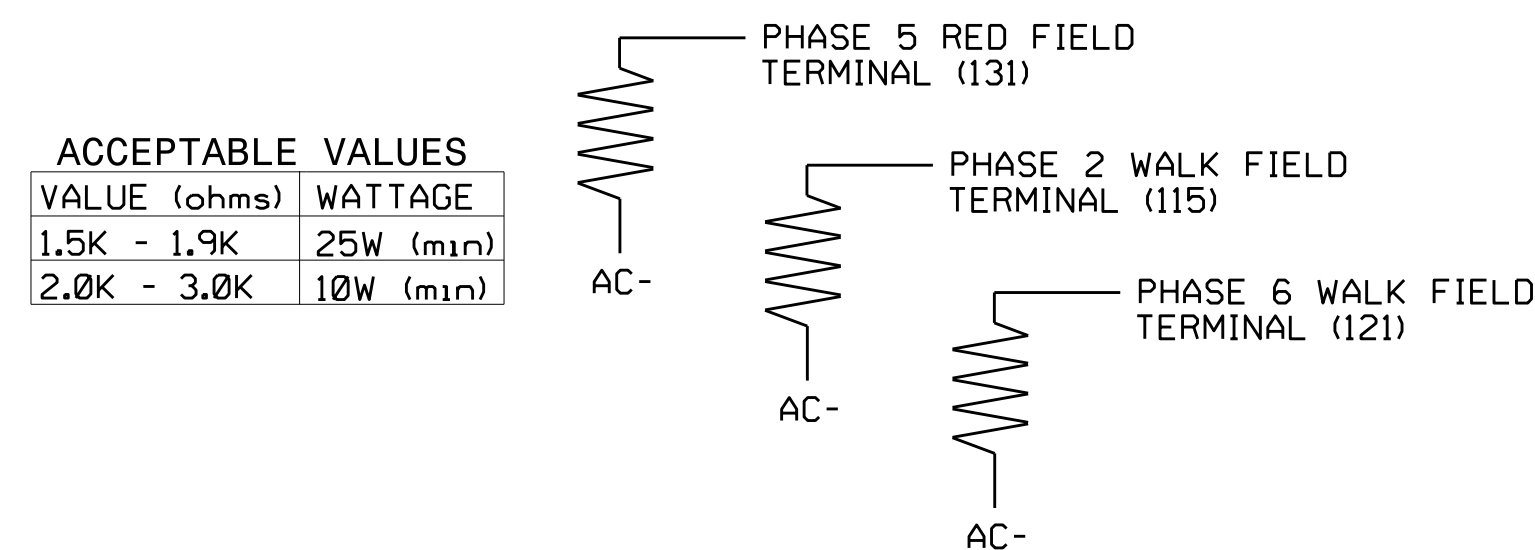


**NOTE**

- The sequence display for signal head 51 requires special logic programming. See sheet 2 of 3 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)

Electrical Detail Sheet 1 of 3

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared in the Offices of:  
 Transportation Mobility and Safety  
 Signal Management Section  
 750 N. Greenfield Pkwy, Garner, NC 27529

NC 146 (Long Shoals Road) at SR 3501 (Clayton Road)

Division 13 Buncombe County Asheville  
 PLAN DATE: September 2016 REVIEWED BY: K.M. Mims  
 PREPARED BY: Z.M. Little REVIEWED BY:  
 REVISIONS INIT. DATE

Seal of Keith M. Mims, Professional Engineer, No. 036880

DocuSigned by: Keith M. Mims 10/31/2016  
 2F8078EBCD3445 DATE  
 SIG. INVENTORY NO. 13-0729