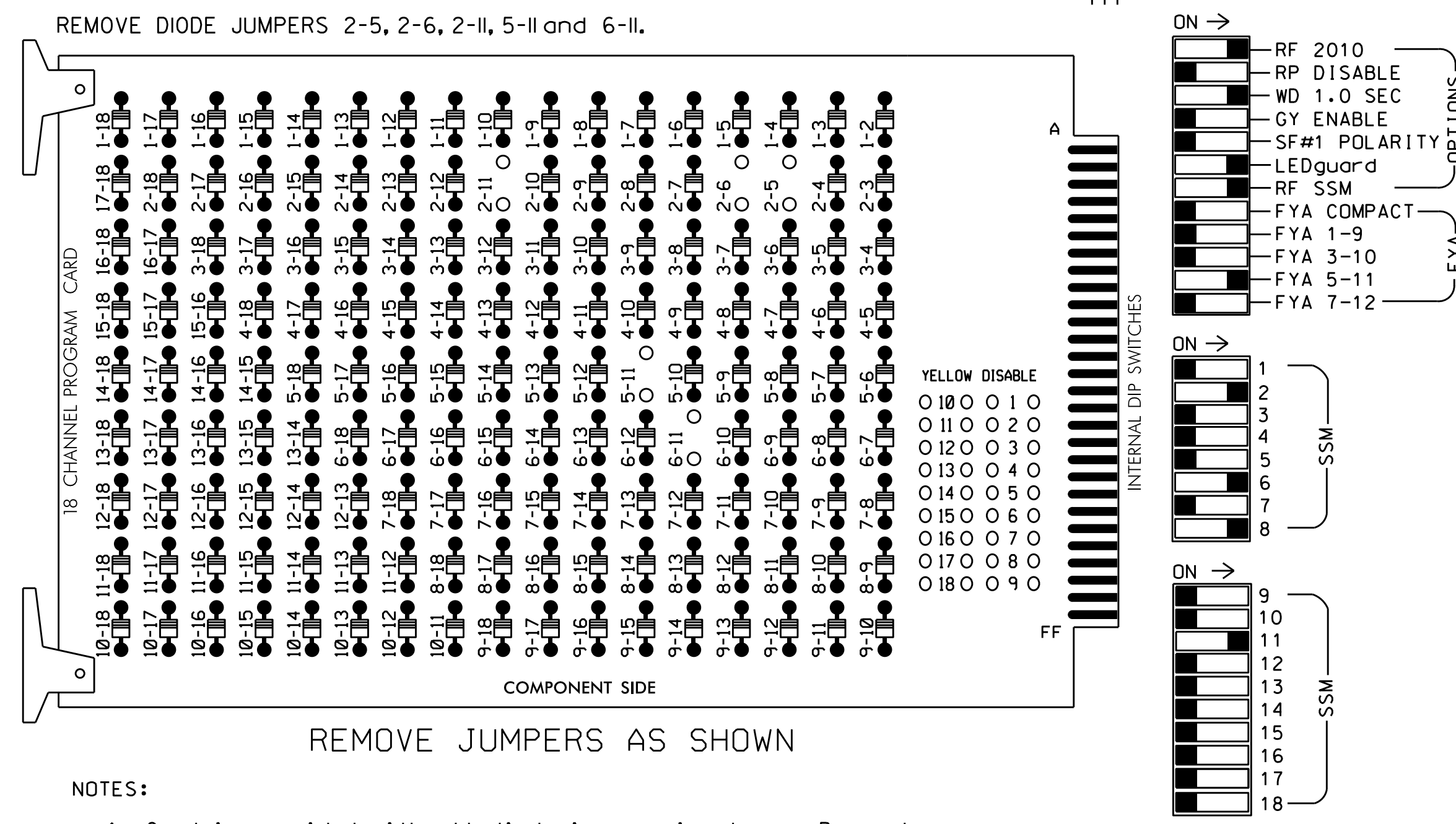


**EDI MODEL 2018EClip-NC CONFLICT MONITOR PROGRAMMING DETAIL**  
(remove jumpers and set switches as shown)



- REMOVE DIODE JUMPERS 2-5, 2-6, 2-11, 5-11 and 6-11.
- 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.
- 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.
- The cabinet and controller are part of the Asheville Signal System.

**EQUIPMENT INFORMATION**

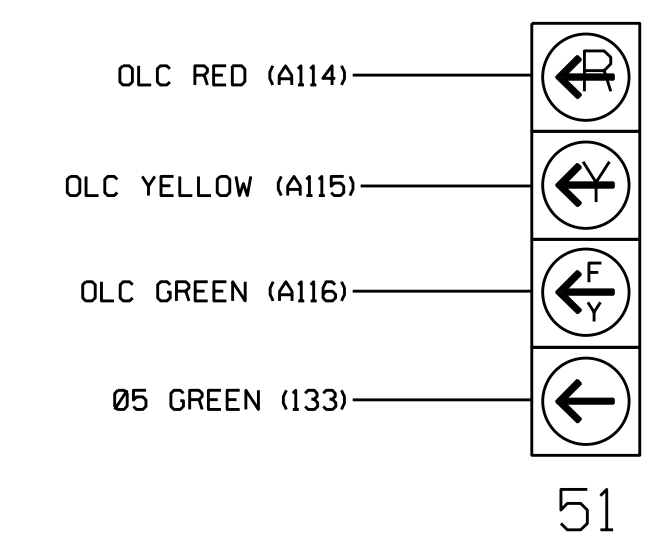
CONTROLLER.....2070E  
 CABINET.....332 W/ AUX  
 SOFTWARE.....ECONOLITE OASIS  
 CABINET MOUNT.....BASE  
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE  
 LOAD SWITCHES USED.....S2,S7,S8,S11,AUX S4  
 PHASES USED.....2,5,6,8  
 OVERLAP "A".....NOT USED  
 OVERLAP "B".....NOT USED  
 OVERLAP "C".....5+6  
 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	NU	NU	51	61,62	NU	NU	81	82	NU	NU	NU	51	NU	NU	
RED		128						134			107	107							
YELLOW		129					*	135			108	108							
GREEN		130						136			109	109							
RED ARROW																		A114	
YELLOW ARROW																			A115
FLASHING YELLOW ARROW																			A116
GREEN ARROW								133			109								

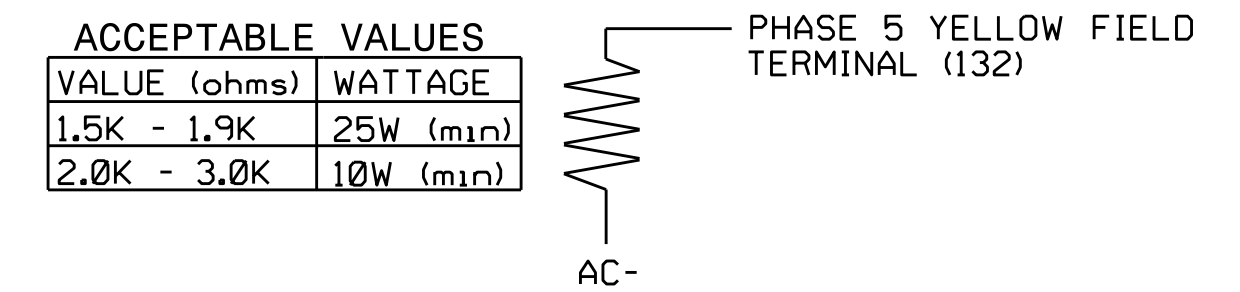
NU = Not Used  
 \* Denotes install load resistor. See load resistor installation detail this sheet.  
 \* See pictorial of head wiring in detail below.

**4 SECTION FYA PPLT SIGNAL WIRING DETAIL**  
(wire signal head as shown)



- NOTE
- The sequence display for this signal requires special logic programming. See sheet 2 of 2 for programming instructions.

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



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

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

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**

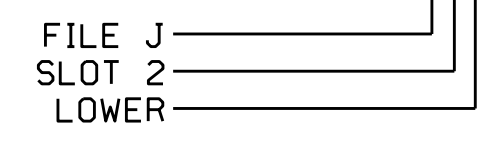
LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT ASSIGNMENT NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND	FULL TIME DELAY	STRETCH TIME	DELAY TIME
ZONE 2A	★	J2U	40	2	6	2	Y	Y			
ZONE 5A <sup>1</sup>	★	J1U	55	17	5	5	Y	Y			15
	-	I4U	47	9	22	2	Y	Y			
6A/S1	TB3-9,10	J3U	64	26	36	6/SYS	Y	Y			
6B/S2	TB3-11,12	J3L	77	39	46	6/SYS	Y	Y			
8A	TB5-9,10	J6U	42	4	8	8	Y	Y			
8B	TB5-11,12	J6L	46	8	18	8	Y	Y			
8C	TB7-1,2	J7U	66	28	38	8	Y	Y			15
* S3	TB6-9,10	I9U	60	22	11	SYS					
* S4	TB6-11,12	I9L	62	24	13	SYS					
* S5	TB7-9,10	J9U	59	21	15	SYS					

- <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.

**★ SPECIAL DETECTOR NOTE**

For Zone 2A and Zone 5A install a multizone microwave 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 Plan.

**INPUT FILE POSITION LEGEND: J2L**



Electrical Detail - Sheet 1 of 2

Electrical and Programming Details for: **US 70-74A (Charlotte St.) at I-240 Off-Ramp**

Prepared in the Offices of: **Transportation Mobility and Safety Solutions**  
 NORTH CAROLINA PROFESSIONAL ENGINEER  
 SEAL 030530  
 ZACHARY M. LITTLE

Division 13 Buncombe County Asheville  
 PLAN DATE: July 2016 REVIEWED BY: BAS  
 PREPARED BY: C. Strickland REVIEWED BY:

REVISIONS INIT. DATE

Designed by: *Zachary M. Little* 8/9/2016  
 DATE

SIG. INVENTORY NO. 13-0255

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

08-AUG-2016 11:36  
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