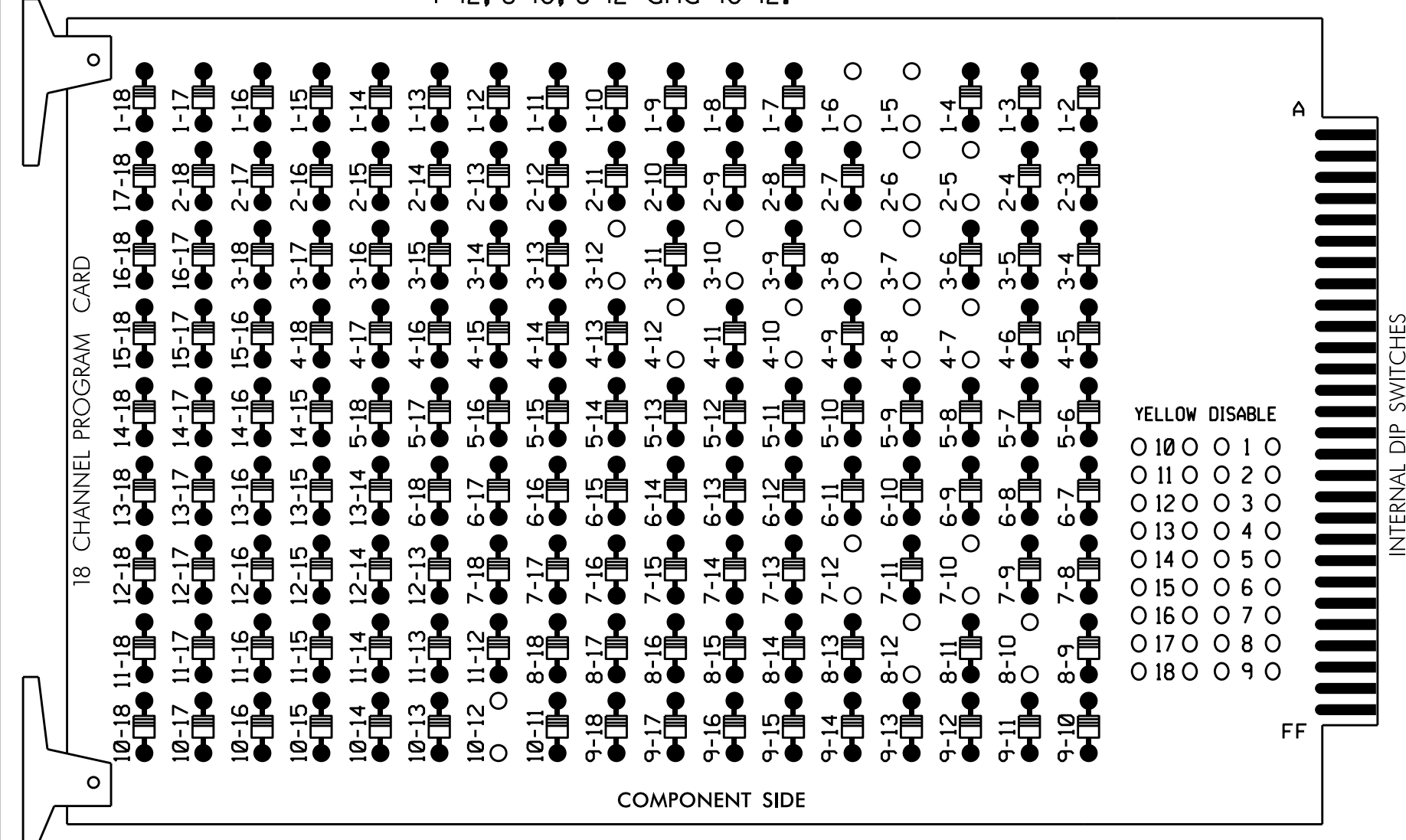


**EDI MODEL 2018ECLIP-NC CONFLICT MONITOR PROGRAMMING DETAIL**

(remove jumpers and set switches as shown)

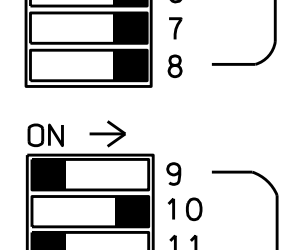
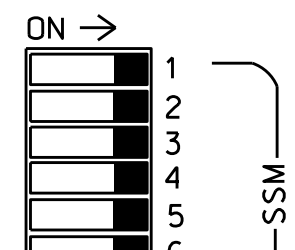
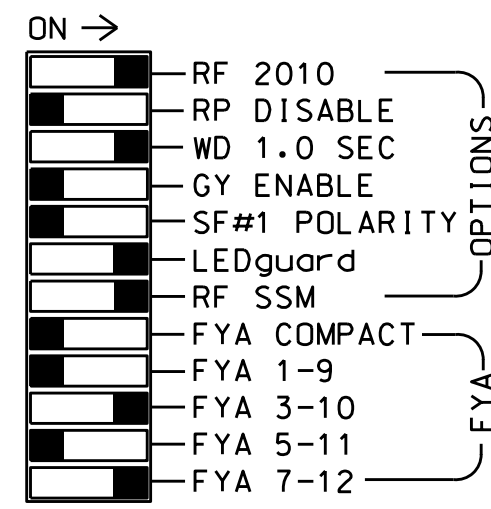
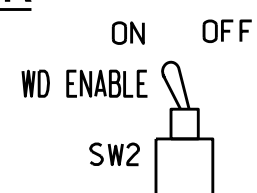
REMOVE DIODE JUMPERS 1-5, 1-6, 2-5, 2-6, 3-7, 3-8, 3-10, 3-12, 4-7, 4-8, 4-10, 4-12, 7-10, 7-12, 8-10, 8-12 and 10-12.



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.



■ = DENOTES POSITION OF SWITCH

**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 volume density operation.
- Program controller to start up in phase 2 Green and 6 Green.
- The cabinet and controller are part of the Fayetteville Signal System.

**EQUIPMENT INFORMATION**

CONTROLLER.....2070E  
 CABINET.....332 W/AUX  
 SOFTWARE.....ECONOLITE ASC/3-2070  
 CABINET MOUNT.....BASE  
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE  
 LOAD SWITCHES USED.....S1,S2,S4,S5,S7,S8,S10,S11,  
 AUX S2,AUX S5  
 PHASES USED.....1,2,3,4,5,6,7,8  
 OVERLAP "A".....NOT USED  
 OVERLAP "B".....\*  
 OVERLAP "C".....NOT USED  
 OVERLAP "D".....\*  
 \* See overlap programming detail on sheet 2

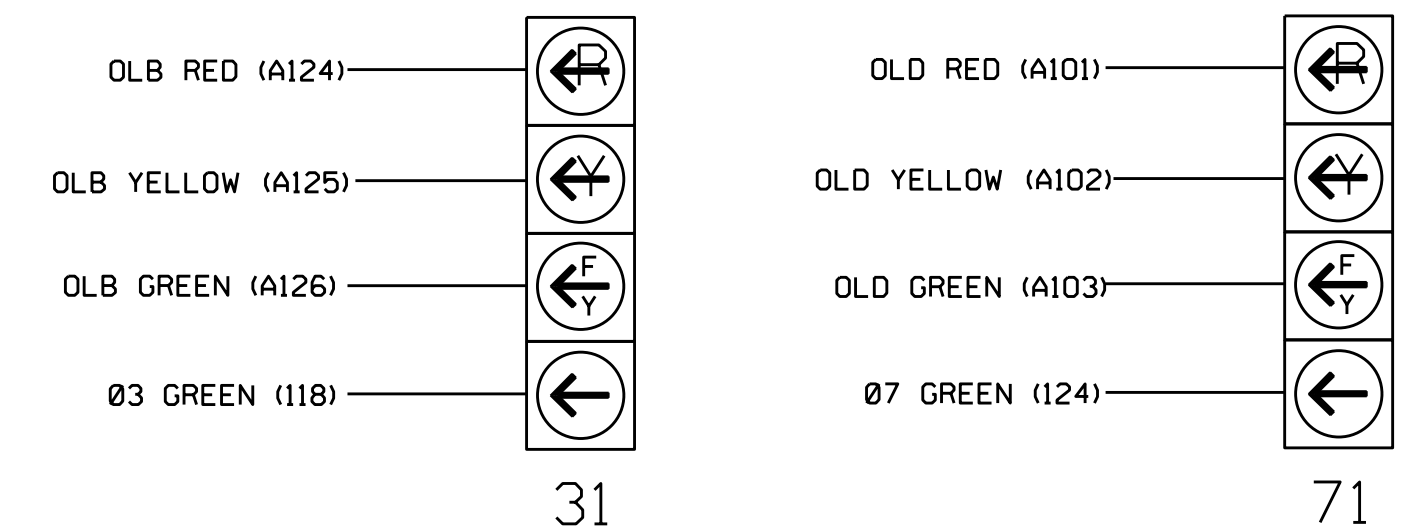
**SIGNAL HEAD HOOK-UP CHART**

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.	11,12	83	21,22 23	NU	22	31*	41,42 43	NU	43	51,52	61,62 63	NU	62	71*	81,82 83	NU	31*	NU	71*	NU		
RED		128			*	101				134			*	107								
YELLOW		129				102				135				108								
GREEN		130				103				136				109								
RED ARROW	125									131									A124		A101	
YELLOW ARROW	126	126				117			132	132			123						A125		A102	
FLASHING YELLOW ARROW																			A126		A103	
GREEN ARROW	127	127				118	118		133	133			124	124								

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

**FYA SIGNAL WIRING DETAIL**

(wire signal heads as shown)



**INPUT FILE POSITION LAYOUT**

(front view)

FILE "I"	1	2	3	4	5	6	7	8	9	10	11	12	13	14
∅ 1	∅ 1	∅ 2/SYS	S	∅ 3	∅ 4	∅ 4	∅ 4	∅ 4	SYS. DET. S4A	S	S	S	S	FS
NOT USED	∅ 1	∅ 2/SYS	NOT USED	∅ 4	∅ 4	∅ 4	∅ 4	∅ 4	SYS. DET. S4B	S	S	S	S	ISOLATOR
FILE "J"	∅ 5	∅ 5	∅ 6/SYS	S	∅ 7	∅ 8	∅ 8	∅ 8	S	S	S	S	S	ISOLATOR
NOT USED	∅ 5	∅ 6/SYS	NOT USED	∅ 8	∅ 8	∅ 8	∅ 8	∅ 8	S	S	S	S	S	ISOLATOR

EX.: 1A, 2A, ETC. = LOOP NO.'S  
 FS = FLASH SENSE  
 ST = STOP TIME

⊗ Wired Input - Do not populate slot with detector card

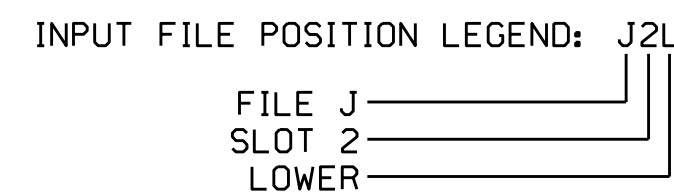
**INPUT FILE CONNECTION & PROGRAMMING CHART**

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND TIME	DELAY TIME	DETECTOR TYPE
1A	TB2-1,2	I1U	56	1	1	YES		3	S
1B	TB2-5,6	I2U	39	2	1	YES			S
1C	TB2-7,8	I2L	43	12	1	YES		15	S
2A/S2A	TB2-9,10	I3U	63	32	2/SYS	YES			N
2B/S2B	TB2-11,12	I3L	76	42	2/SYS	YES			N
3A <sup>1</sup>	TB4-5,6	I5U	58	3	3	YES		15	S
	-	J8U	50	28	8	YES		3	S
4A	TB4-9,10	I6U	41	4	4	NO			S
4B	TB4-11,12	I6L	45	14	4	NO			S
4C	TB6-1,2	I7U	65	34	4	YES	2	5	G
4D	TB6-3,4	I7L	78	44	4	YES	2	5	G
*S4A	TB6-9,10	I9U	60	11	SYS	NO			N
*S4B	TB6-11,12	I9L	62	13	SYS	NO			N
5A	TB3-1,2	J1U	55	5	5	YES		3	S
5B	TB3-5,6	J2U	40	6	5	YES			S
5C	TB3-7,8	J2L	44	16	5	YES		15	S
6A/S6A	TB3-9,10	J3U	64	36	6/SYS	YES			N
6B/S6B	TB3-11,12	J3L	77	46	6/SYS	YES			N
7A <sup>2</sup>	TB5-5,6	J5U	57	7	7	YES		15	S
	-	I8U	49	24	4	YES		3	S
8A	TB5-9,10	J6U	42	8	8	NO			S
8B	TB5-11,12	J6L	46	18	8	NO			S
8C	TB7-1,2	J7U	66	38	8	YES	2	5	G
8D	TB7-3,4	J7L	79	48	8	YES	2	5	G

\* System detector only. Remove any assigned vehicle phase.

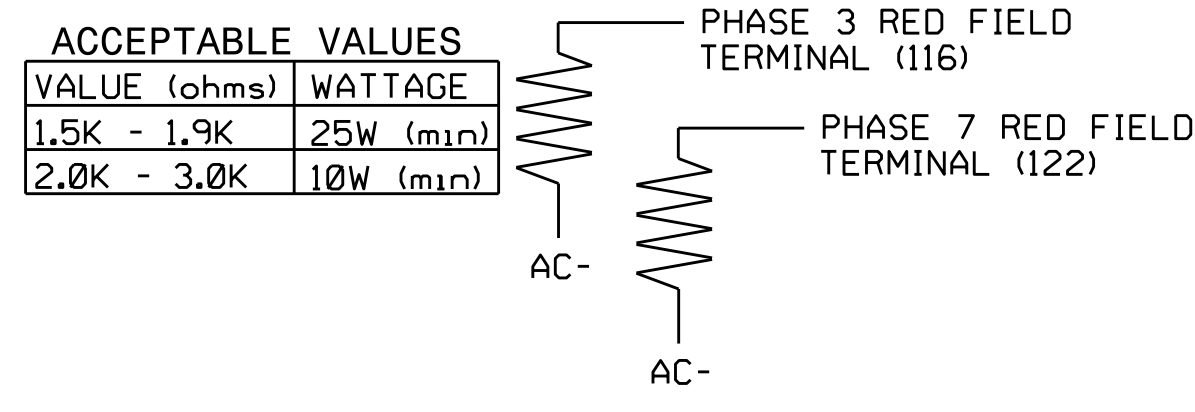
<sup>1</sup>Add jumper from I5-W to J8-W, on rear of input file.

<sup>2</sup>Add jumper from J5-W to I8-W, on rear of input file.



**LOAD RESISTOR INSTALLATION DETAIL**

(install resistors as shown)



Electrical Detail Sheet 1 of 2

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared In the Office of:  
 TRANSPORTATION MOBILITY AND SAFETY DIVISION  
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 750 N. Greenfield Pkwy, Garner, NC 27529

NC 59 (Hope Mills Road) at NC 162 (George Owen Road)

Division 6 Cumberland County Hope Mills

PLAN DATE: August 2016 REVIEWED BY:  
 PREPARED BY: James Peterson REVIEWED BY:

REVISIONS INIT. DATE

DocuSign by: Keith M. Mims 9/20/2016  
 SIG. INVENTORY NO. 06-0610