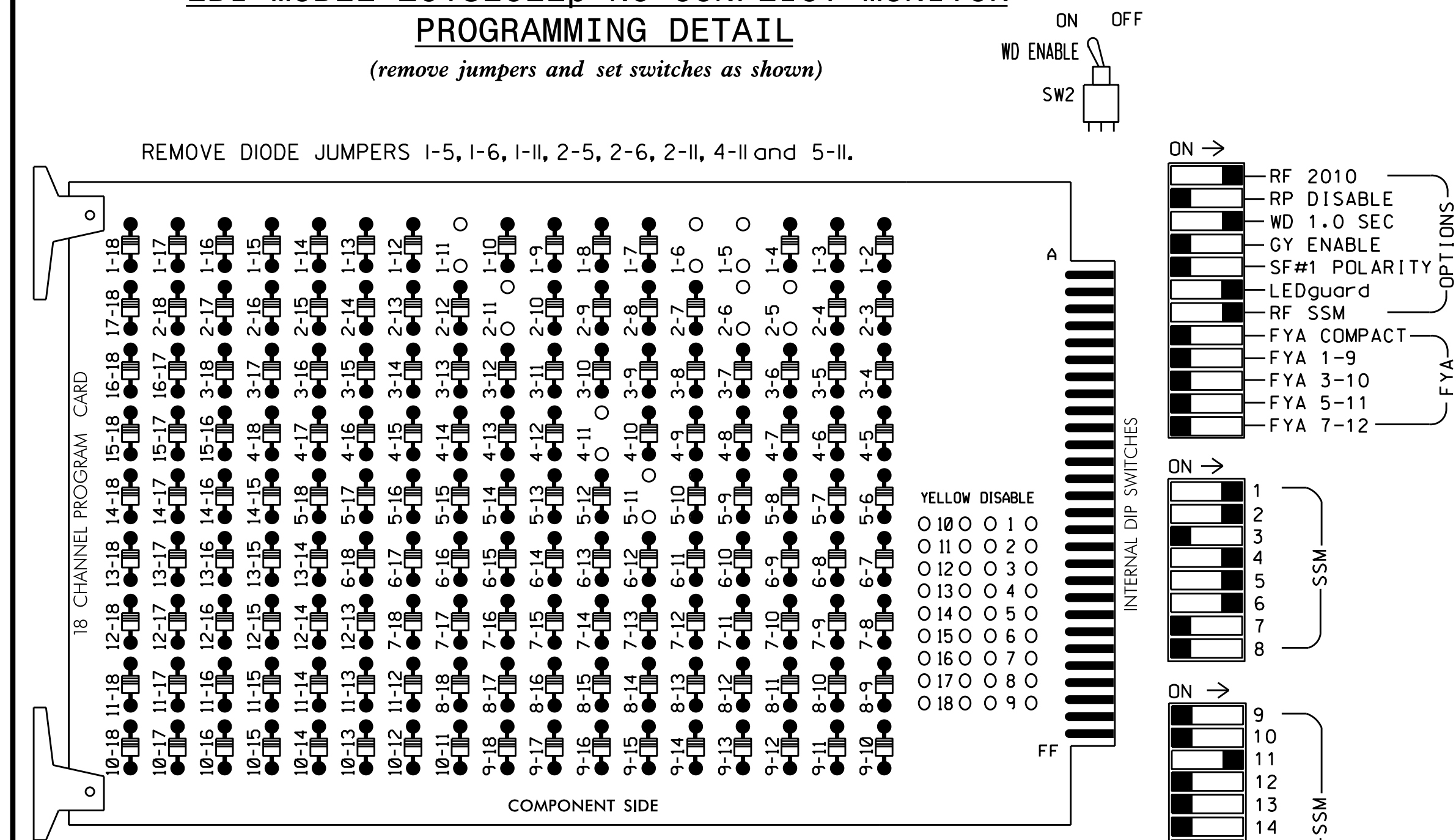


**EDI MODEL 2018ECLIP-NC CONFLICT MONITOR PROGRAMMING DETAIL**

(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 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,S5,S7,S8,AUX S4  
 PHASES USED.....1,2,4,5,6  
 OVERLAP "A".....NOT USED  
 OVERLAP "B".....NOT USED  
 OVERLAP "C".....\*  
 OVERLAP "D".....NOT USED  
 \* See overlap programming detail on this sheet.

**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
CHU 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	21,22	NU	NU	41	63	NU	51,52	62,63	NU	NU	NU	NU	NU	NU	42,43	NU	NU
RED		128							134							A114		
YELLOW		129							135									
GREEN		130							136									
RED ARROW	125				101				131									
YELLOW ARROW	126				102	102			132							A115		
GREEN ARROW	127				103	103			133							A116		

NU = Not Used

**ECONOLITE ASC/3-2070 OVERLAP PROGRAMMING DETAIL**  
 (program controller as shown)

- From Main Menu select **2. CONTROLLER**
- From CONTROLLER Submenu select **2. VEHICLE OVERLAPS**

Toggle Twice

**OVERLAP C**

Select TMG VEH OVLP [C] and 'NORMAL'

TMG VEH OVLP...[C] TYPE: .....**NORMAL**  
 PHASES 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6  
 INCLUDED . . . X X . . . . .  
 LAG GRN 0.0 YEL 0.0 RED 0.0

END PROGRAMMING

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 06-1254  
 DESIGNED: June 2016  
 SEALED: 8-03-16  
 REVISED: N/A

**INPUT FILE POSITION LAYOUT**

(front view)

FILE "I"	1	2	3	4	5	6	7	8	9	10	11	12	13	14
∅ 1	∅ 2	∅ 3	∅ 4	∅ 5	∅ 6/SYS	∅ 7	∅ 8	∅ 9	∅ 10	∅ 11	∅ 12	∅ 13	∅ 14	FS
1A	2A	3A	4A	5A	6A/S6A	7A	8A	9A	10A	11A	12A	13A	14A	DC ISOLATOR
NOT USED	2B	3B	4B	5B	6B/S6B	7B	8B	9B	10B	11B	12B	13B	14B	ST
FILE "J"	∅ 5	∅ 5	∅ 6/SYS	∅ 5	∅ 6/SYS	∅ 5	∅ 6/SYS	∅ 5	∅ 6/SYS	∅ 5	∅ 6/SYS	∅ 5	∅ 6/SYS	∅ 5
FILE "J"	5A	5C	6A/S6A	5A	6A/S6A	5A	6A/S6A	5A	6A/S6A	5A	6A/S6A	5A	6A/S6A	5A
FILE "J"	5B	5D	6B/S6B	5B	6B/S6B	5B	6B/S6B	5B	6B/S6B	5B	6B/S6B	5B	6B/S6B	5B

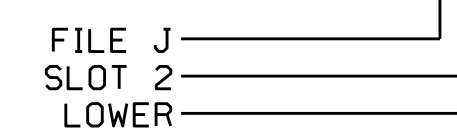
EX.: 1A, 2A, ETC. = LOOP NO.'S

FS = FLASH SENSE  
 ST = STOP TIME

**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			S
2A	TB2-5,6	I2U	39	2	2	YES			N
2B	TB2-7,8	I2L	43	12	2	YES			N
4A	TB4-9,10	I6U	41	4	4	YES			S
5A	TB3-1,2	J1U	55	5	5	YES			S
5B	TB3-3,4	J1L	55	5	5	YES			S
5C	TB3-5,6	J2U	40	6	5	YES		15	S
5D	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

INPUT FILE POSITION LEGEND: J2L



**FLASHER CIRCUIT MODIFICATION DETAIL**

In order to ensure that signals flash concurrently on the Same approach, make the following flasher circuit changes:

- On rear of PDA - remove wire from Term. T2-4 and terminate on T2-2.
- On rear of PDA - remove wire from Term. T2-5 and terminate on T2-3.
- Remove flasher unit 2.

The changes listed above ties all phases and overlaps to flasher unit 1.

**Electrical Detail**

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

NC 162 (George Owen Road) at SR 1141 (Cumberland Road)  
 Division 6 Cumberland County Hope Mills  
 PLAN DATE: August 2016 REVIEWED BY: BAS  
 PREPARED BY: James Peterson REVIEWED BY:  
 REVISIONS INIT. DATE  
 Keith M. Mins 8/11/2016  
 SIG. INVENTORY NO. 06-1254