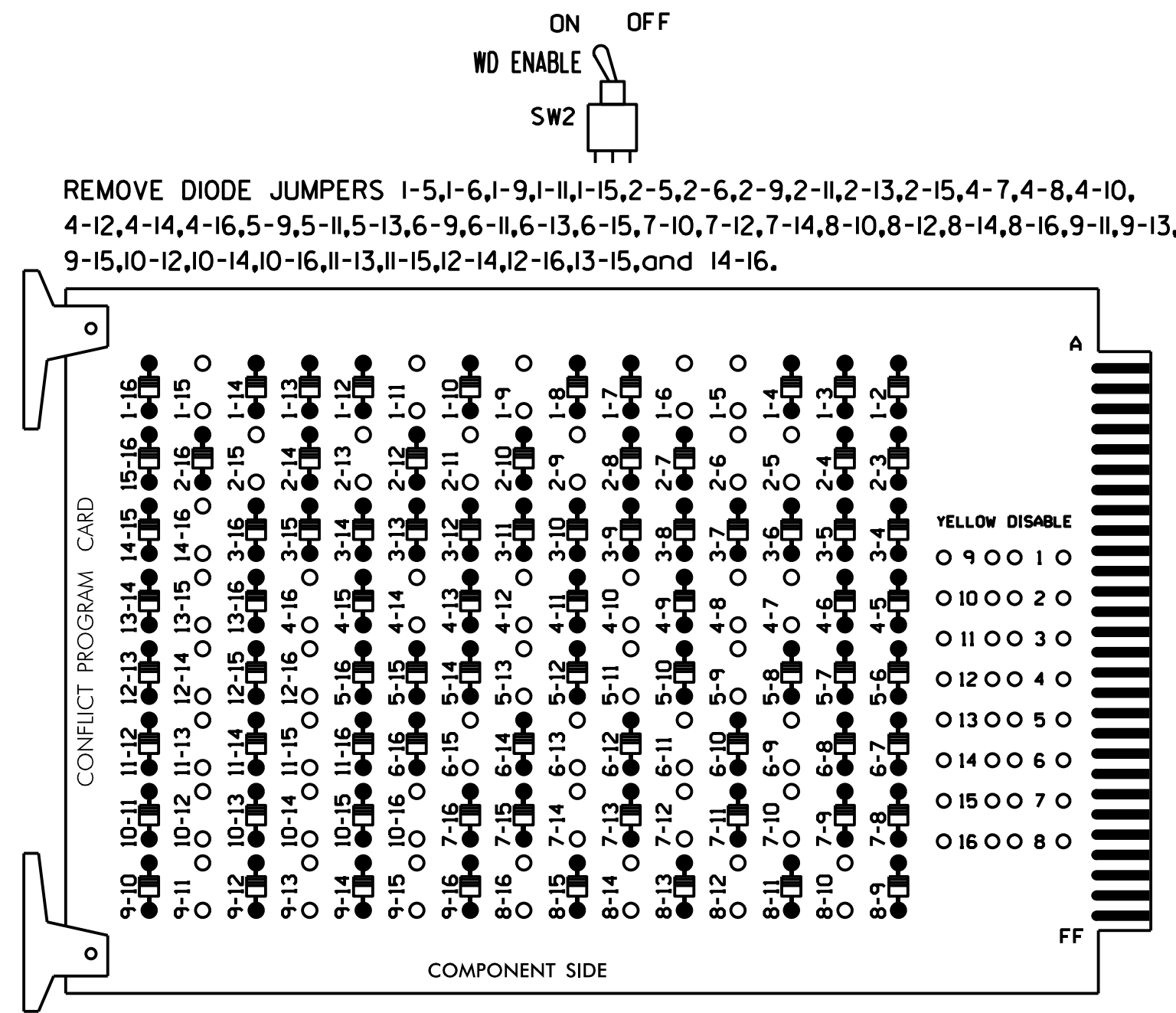


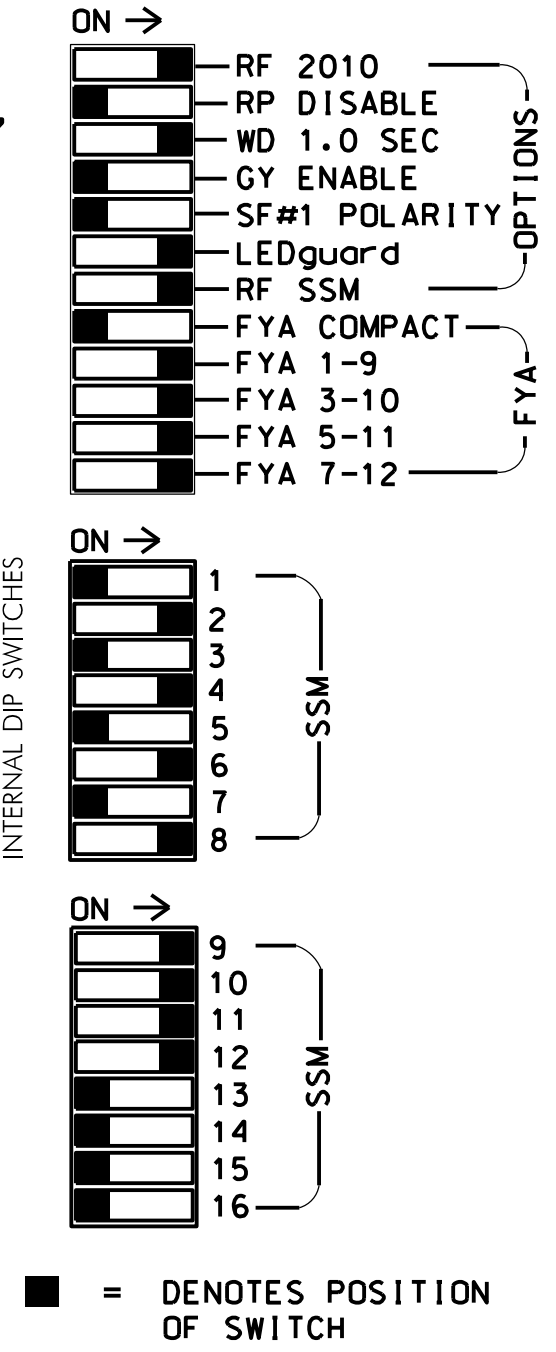
### EDI MODEL 2010ECL-NC CONFLICT MONITOR PROGRAMMING DETAIL

(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.
- Make sure jumpers SEL2-SEL5 are present on the monitor board.



### 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.
- Ensure that Red Enable is active at all times during normal operation. To prevent Red Failures on unused monitor channels, tie unused red monitor inputs 1,3,5,7,13,14,15 & 16 to load switch AC+ per the cabinet manufacturer's instructions.
- Program phases 4 and 8 for Dual Entry.
- Enable Simultaneous Gap-Out for all phases.
- Program phases 2 and 6 for Variable Initial.
- Program phases 2 and 6 for Gap Reduction.
- Program phases 2 and 6 for Start Up In Green.
- Program phases 2, 4, 6 and 8 for 'STARTUP PED CALL'.
- Program phases 2 and 6 for Yellow Flash and overlaps 1 and 2 as Wag Overlaps.
- The cabinet and controller are part of the Fayetteville City Signal System.

### EQUIPMENT INFORMATION

CONTROLLER.....2070  
 CABINET.....332 W/ AUX  
 SOFTWARE.....ECONOLITE OASIS  
 CABINET MOUNT.....BASE  
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE  
 LOAD SWITCHES USED.....S1,S2,S2P,S4,S4P,S5,S6,S6P,S7,S8,S8P,  
 S9,S10,S12,S13  
 PHASES USED.....1,2,2 PED,4,4 PED,5,6,6 PED,7,8,8 PED  
 OVERLAP "A".....1+2  
 OVERLAP "B".....4  
 OVERLAP "C".....5+6  
 OVERLAP "D".....7+8

### SIGNAL HEAD HOOK-UP CHART

LOAD SWITCH NO.	S1	S2	S2P	S3	S4	S4P	S5	S6	S6P	S7	S8	S8P	S9	S10	S11	S12	S13	S14	
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	21,22,23	P21, P22	NU	41,42	P41, P42	51	61,62,63	P61, P62	71	82,83	P81, P82	11	81	NU	51	71	NU	
RED		128			101			134			107								
YELLOW	*	129			102		*	135		*	108								
GREEN		130			103			136			109								
RED ARROW																A121	A124	A114	A101
YELLOW ARROW																A122	A125	A115	A102
FLASHING YELLOW ARROW																A123	A126	A116	A103
GREEN ARROW	127							133			124								
Hand																			
Person																			

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	∅ 1	∅ 2	∅ 2	∅ 4	∅ 5	∅ 6	∅ 6	∅ 7	∅ 8	∅ 8	∅ 8	∅ 8	∅ 8	∅ 8
L	1A	2A	2C	4A	5A	6A	6C	7A	8A	8B	8B	8B	8B	8B
U	NOT USED	∅ 2	NOT USED	NOT USED	∅ 6	∅ 6	NOT USED	∅ 8	∅ 8	∅ 8	∅ 8	∅ 8	∅ 8	∅ 8
L	NOT USED	2B	NOT USED	NOT USED	6B	6B	NOT USED	8B	8B	8B	8B	8B	8B	8B

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.	INPUT ASSIGNMENT NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND	FULL TIME DELAY	STRETCH TIME	DELAY TIME
1A <sup>1</sup>	TB2-1,2	I1U	56	18	1	1	Y	Y	-	-	15
2A	TB2-5,6	J4U	48	10	26	6	Y	Y	Y	-	3
2B	TB2-7,8	I2L	43	5	12	2	Y	Y	-	-	-
2C	TB2-9,10	I3U	63	25	32	2	Y	Y	-	-	-
4A	TB4-9,10	I6U	41	3	4	4	Y	Y	-	-	10
5A <sup>2</sup>	TB3-1,2	J1U	55	17	5	5	Y	Y	-	-	15
6A	TB3-5,6	J2U	40	2	6	6	Y	Y	-	-	-
6B	TB3-7,8	J2L	44	6	16	6	Y	Y	-	-	-
6C	TB3-9,10	J3U	64	26	36	6	Y	Y	-	-	-
7A <sup>3</sup>	TB5-5,6	J5U	57	19	7	7	Y	Y	-	-	15
8A	TB5-9,10	J6U	42	4	8	8	Y	Y	-	-	3
8B	TB5-11,12	J6L	46	8	18	8	Y	Y	-	-	10

NOTE:  
 INSTALL DC ISOLATORS IN INPUT FILE SLOTS 112 AND 113.

- Add jumper from I1-W to J4-W (on rear of input file).
  - Add jumper from J1-W to I4-W (on rear of input file).
  - Add jumper from J5-W to I8-W (on rear of input file).
- ★ See Input Page Assignment programming details on sheets 3 and 4.

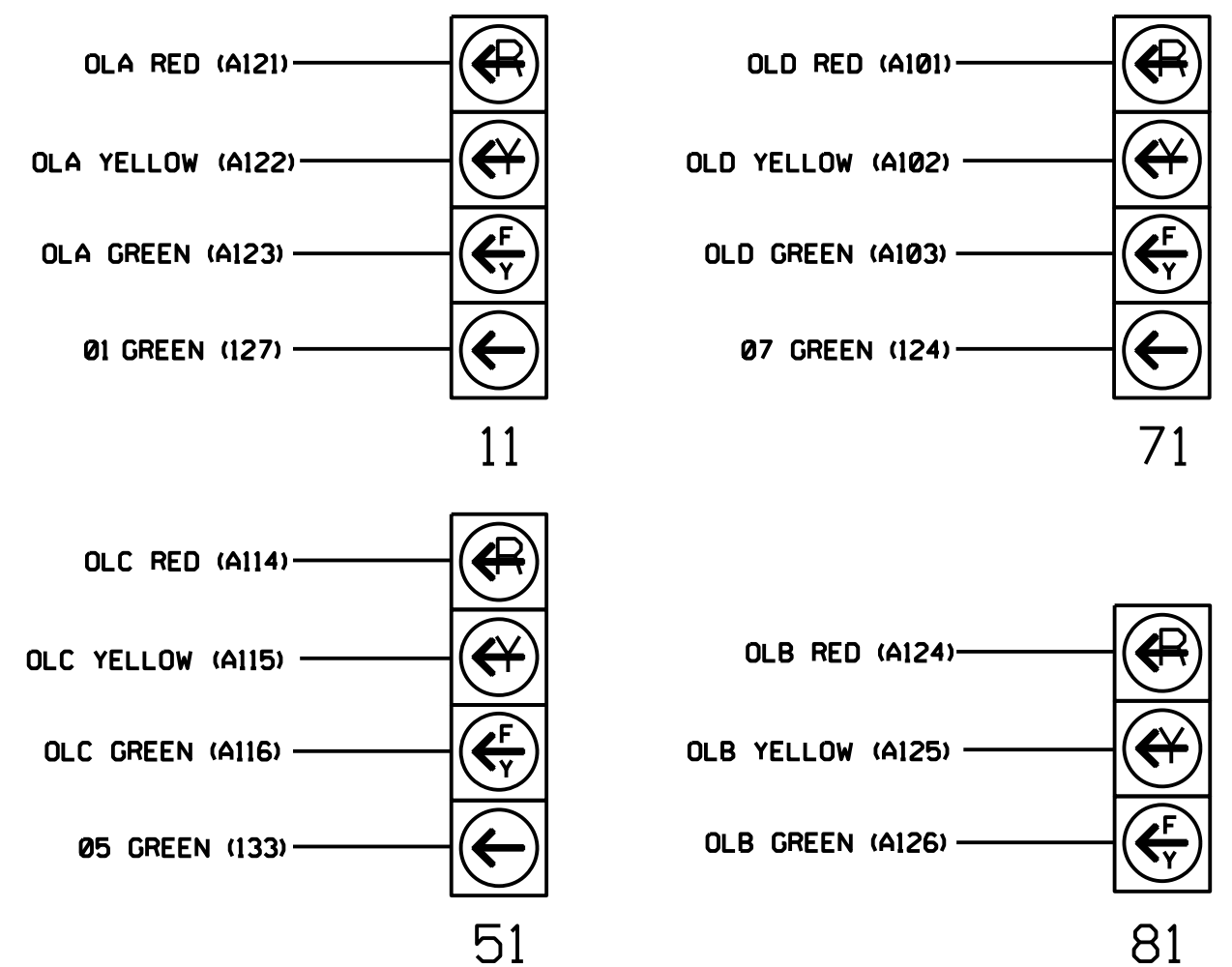
INPUT FILE POSITION LEGEND: I2L  
 FILE 1  
 SLOT 2  
 LOWER

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 06-0565  
 DESIGNED: September 2015  
 SEALED: September 28, 2015  
 REVISED:

**CDM Smith**  
 5400 GLENWOOD AVENUE  
 Suite 400  
 RALEIGH, NC 27612

### FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



NOTE

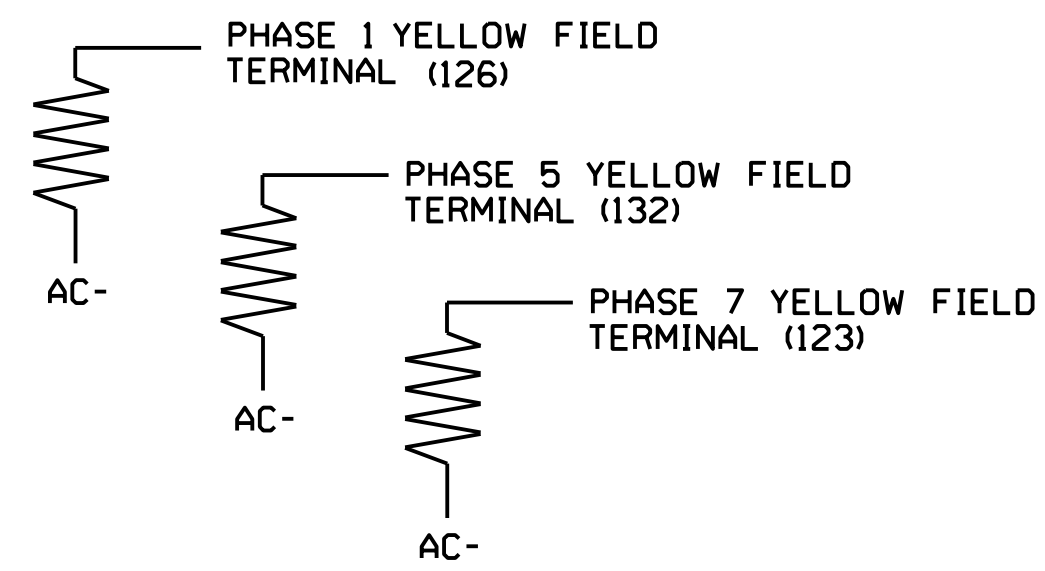
- The sequence display for signal heads 11, 51 and 71 requires special logic programming. See sheet 2 for programming instructions.

### COUNTDOWN PEDESTRIAN SIGNAL OPERATION

Countdown Ped Signals are required to display timing only during Ped Clearance Interval. Consult Ped Signal Module user's manual for instructions on selecting this feature.

ACCEPTABLE VALUES

VALUE (ohms)	WATTAGE
1.5K - 1.9K	25W (min)
2.0K - 3.0K	10W (min)



Signal Upgrade - Sheet 1 of 4

ELECTRICAL AND PROGRAMMING DETAILS FOR: Prepared in the Offices of: STATE OF NORTH CAROLINA PROFESSIONAL ENGINEERS SEAL 034389 BISHONG WANG ENGINEER	NC 24-87 (Bragg Boulevard) at Ames Street		SEAL STATE OF NORTH CAROLINA PROFESSIONAL ENGINEERS SEAL 034389 BISHONG WANG ENGINEER	
	Division 06 PLAN DATE: September 2015	Cumberland County REVIEWED BY: D. Clodgo		Fayetteville
	PREPARED BY: B. Wan	REVIEWED BY:		REVISIONS INIT. DATE
	SIGNATURE DATE			SIG. INVENTORY NO. 06-0565