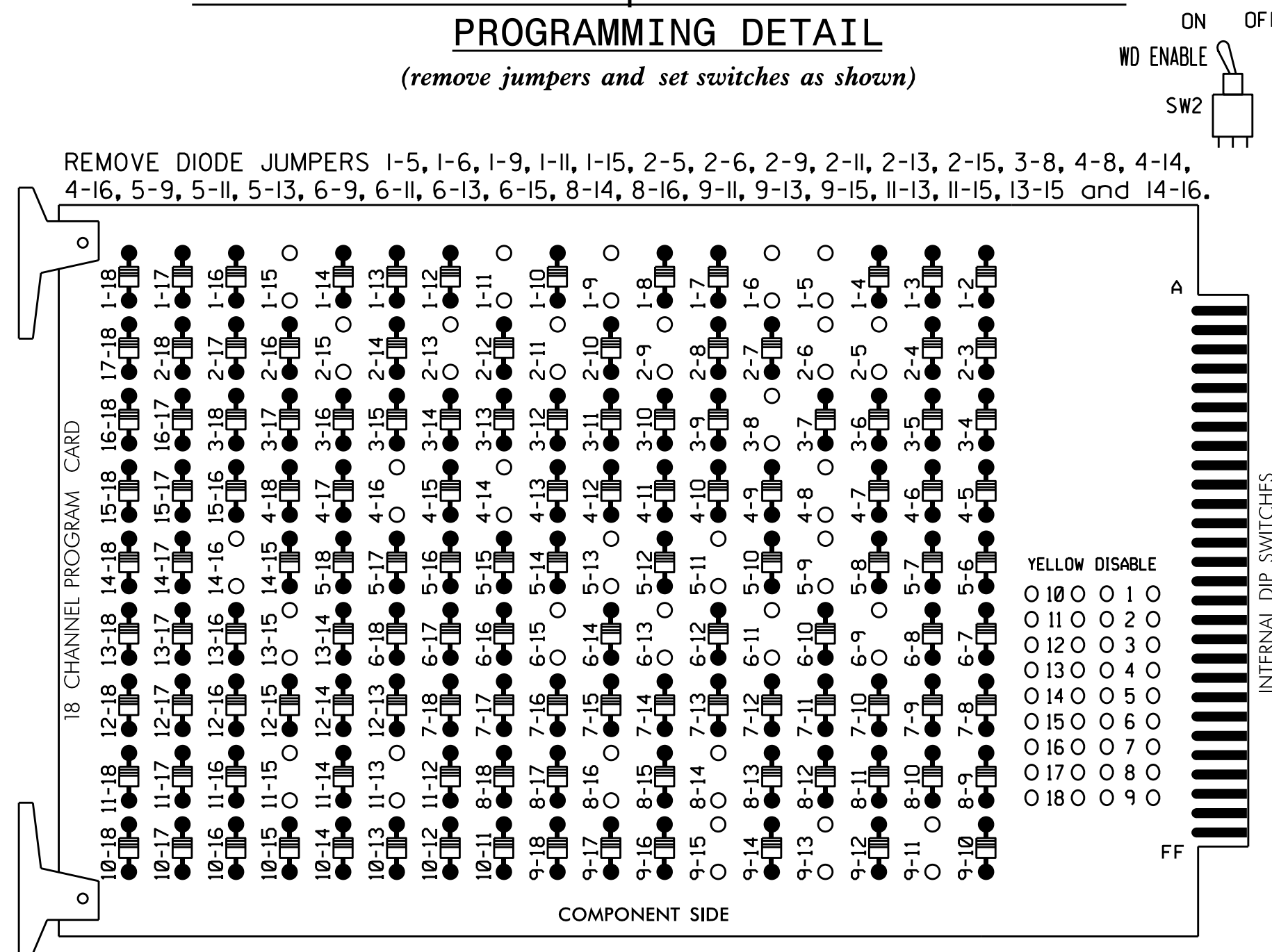


# EDI MODEL 2018ECLIP-NC CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)



REMOVE DIODE JUMPERS 1-5, 1-6, 1-9, 1-11, 1-15, 2-5, 2-6, 2-9, 2-11, 2-13, 2-15, 3-8, 4-8, 4-14, 4-16, 5-9, 5-11, 5-13, 6-9, 6-11, 6-13, 6-15, 8-14, 8-16, 9-11, 9-13, 9-15, 11-13, 11-15, 13-15 and 14-16.

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.
- Program phases 4 and 8 for Dual Entry.
- Enable Simultaneous Gap-Out for all phases.
- Program phases 2 and 6 for Variable Initial and 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 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.....S1,S2,S3,S4,S5,S6,S7,S8,S9,  
 S11,S12,AUX S1,AUX S4.  
 PHASES USED.....1,2,\*3,4,5,6,8,2 PED,4 PED,  
 6 PED,8 PED  
 OVERLAP "A".....1+2  
 OVERLAP "B".....NOT USED  
 OVERLAP "C".....5+6  
 OVERLAP "D".....NOT USED  
 \*USED ONLY DURING PREEMPTION

### 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	21,22	P21, P22	81	41,42	P41, P42	51	61,62	P61, P62	NU	81,82	P81, P82	11	NU	NU	51	NU	NU
RED		128			101			134			107							
YELLOW	*	129		*	102		*	135			108							
GREEN		130			103			136			109							
RED ARROW													A121				A114	
YELLOW ARROW													A122				A115	
FLASHING YELLOW ARROW													A123				A116	
GREEN ARROW	127			118			133											
Hand				113		104		119			110							
Person				115		106		121			112							

NU = Not Used

\* Denotes install load resistor. See load resistor installation detail this sheet.

★ See pictorial of head wiring in detail this sheet.

### INPUT FILE POSITION LAYOUT

(front view)

FILE	1	2	3	4	5	6	7	8	9	10	11	12	13	14
U	∅ 1	∅ 2	∅ S	∅ S	∅ S	∅ 4	∅ S	∅ S	SYS. DET. S1	∅ S	∅ S	∅ 2 PED	∅ 6 PED	FS
L	NOT USED	∅ 2	∅ 2	∅ 2	∅ 2	NOT USED	∅ 2	∅ 2	SYS. DET. S2	∅ 2	∅ 2	∅ 4 PED	∅ 8 PED	ST
U	∅ 5	∅ 6	∅ S	∅ S	∅ S	∅ 8	∅ S	∅ S	SYS. DET. S3	∅ S	∅ S	∅ S	∅ S	NOT USED
L	NOT USED	∅ 6	∅ 6	∅ 6	∅ 6	∅ 8	∅ 8	∅ 8	SYS. DET. S4	∅ 8	∅ 8	∅ 8	∅ 8	PRE2

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

FS = FLASH SENSE  
 ST = STOP TIME  
 PRE2 = EV PREEMPT

⊗ 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
1A <sup>1</sup>	T82-1,2	I1U	56	18	1	1	Y	Y			15
		J4U	48	10	26	6	Y	Y	Y		3
2A	T82-5,6	I2U	39	1	2	2	Y	Y			
2B	T82-7,8	I2L	43	5	12	2	Y	Y			
4A	T84-9,10	I6U	41	3	4	4	Y	Y			5
* S1	T86-9,10	I9U	60	22	11	SYS					
* S2	T86-11,12	I9L	62	24	13	SYS					
5A	T83-1,2	J1U	55	17	5	5	Y	Y			10
6A	T83-5,6	J2U	40	2	6	6	Y	Y			
6B	T83-7,8	J2L	44	6	16	6	Y	Y			
8A	T85-9,10	J6U	42	4	8	8	Y	Y			3
8B	T85-11,12	J6L	46	8	18	8	Y	Y			10
* S3	T87-9,10	J9U	59	21	15	SYS					
* S4	T87-11,12	J9L	61	23	17	SYS					
PED PUSH BUTTONS											
P21,P22	T88-4,6	I12U	67	29	PED 2	2 PED					
P41,P42	T88-5,6	I12L	69	31	PED 4	4 PED					
P61,P62	T88-7,9	I13U	68	30	PED 6	6 PED					
P81,P82	T88-8,9	I13L	70	32	PED 8	8 PED					

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

<sup>1</sup>Add jumper from I1-W to J4-W, on rear of input file.  
 \* System detector only. Remove the vehicle phase assigned to this detector in the default programming.

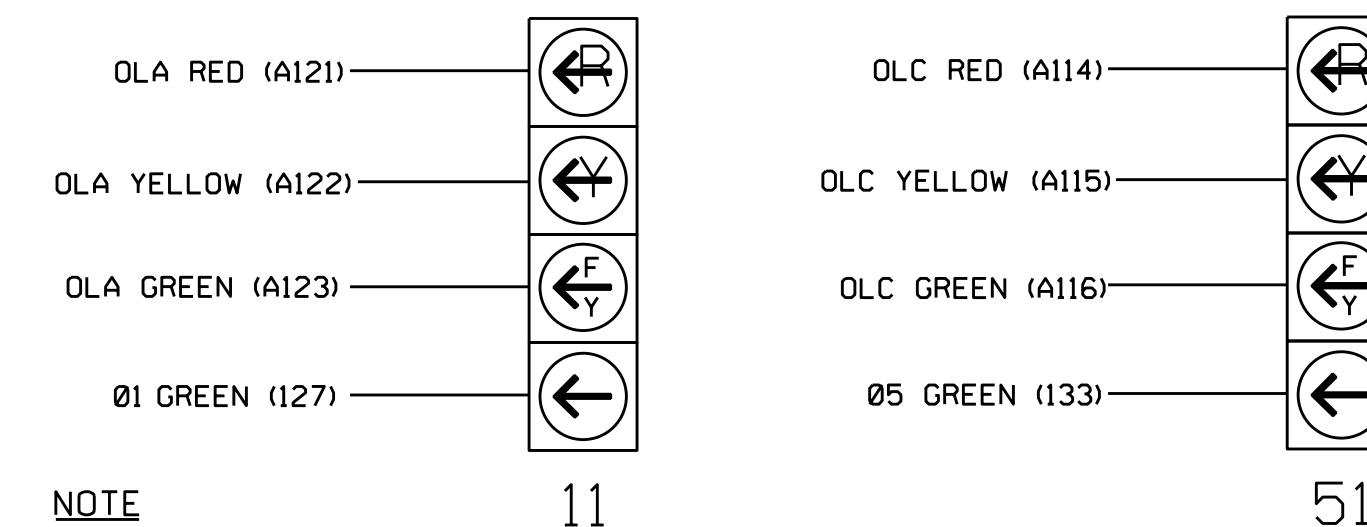
INPUT FILE POSITION LEGEND: J2L  
 FILE J  
 SLOT 2  
 LOWER

### 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.

### 4 SECTION FYA PPLT SIGNAL WIRING DETAIL

(wire signal heads as shown)



NOTE

- The sequence display for these signals requires special logic programming. See sheet 2 for programming instructions.

### PREEMPT ONLY PHASE OMIT NOTE

(program controller as shown below)

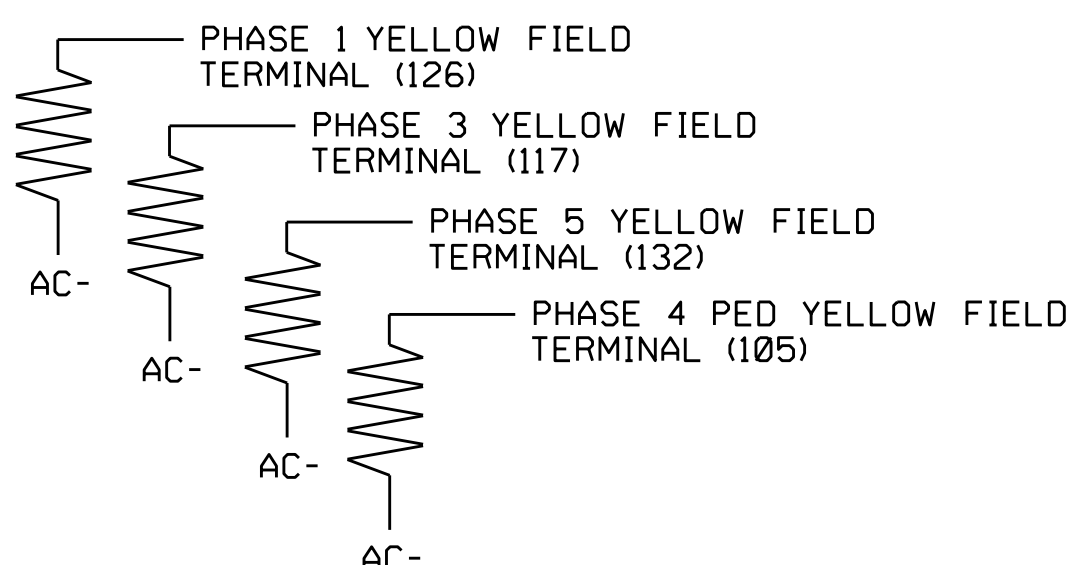
From Main Menu press '2' (Phase Control). Then '1' (Phase Control Functions). Program Phase 3 for 'Omit Phase' and Phases 1, 2, 4, 5, 6 and 8 for 'Startup Calls'. This is to prevent Phase 3 from being served when not in Preempt.

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 14-0740  
 DESIGNED: January 2016  
 SEALED: 11-09-16  
 REVISED: N/A

### 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 and Programming Details for:  
 US 25 (Hendersonville Road) at SR 1358 (Fanning Bridge Road)  
 Division 14 Henderson County Fletcher  
 PLAN DATE: November 2016 REVIEWED BY: BAS  
 PREPARED BY: James Peterson REVIEWED BY:  
 REVISIONS: INIT. DATE  
 750 N. Greenfield Pkwy, Garner, NC 27529  
 SEAL  
 NORTH CAROLINA PROFESSIONAL ENGINEER  
 KEITH M. MINES  
 036880  
 11/14/2016  
 SIG. INVENTORY NO. 14-0740