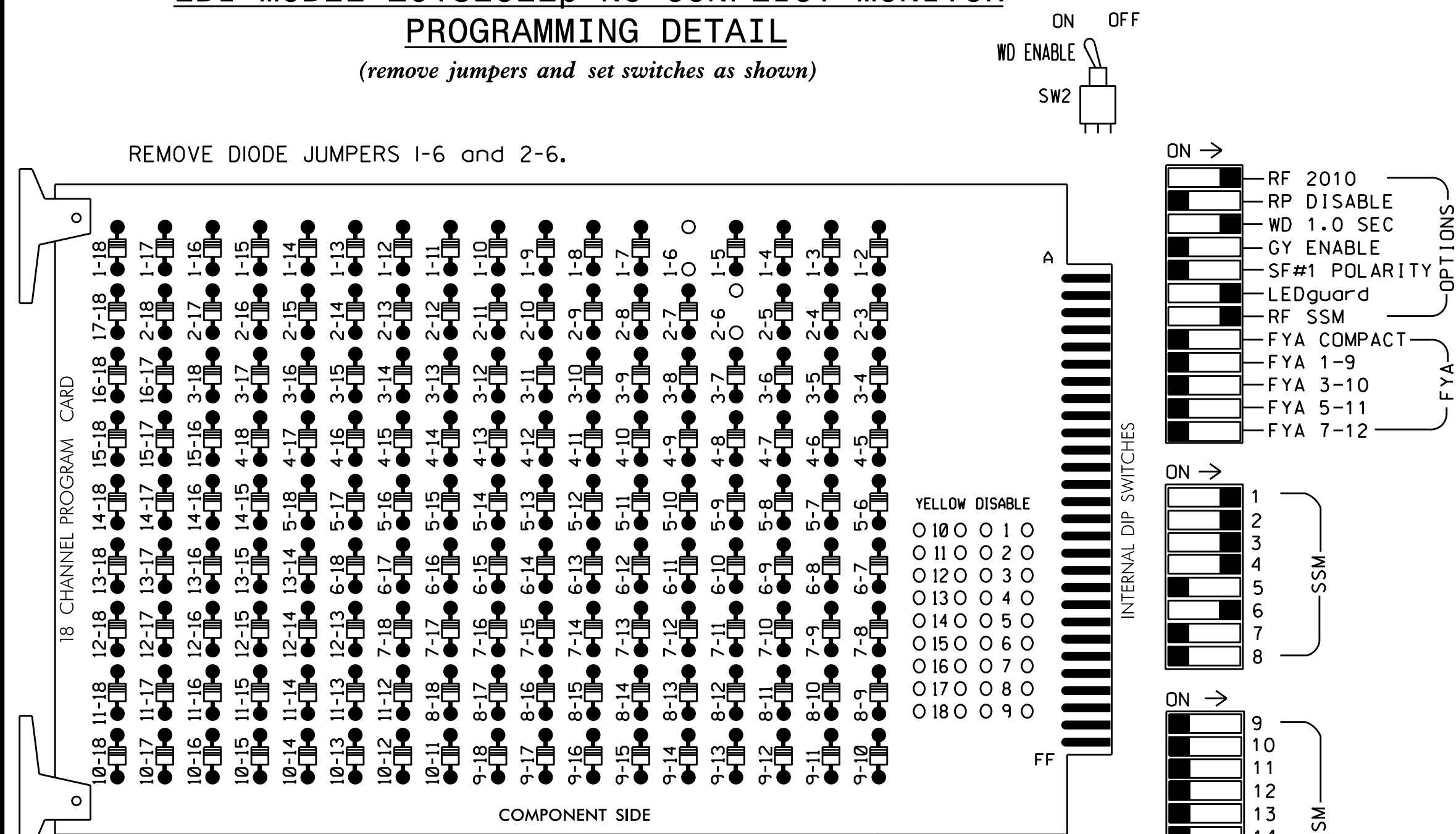


**EDI MODEL 2018ECLIP-NC CONFLICT MONITOR  
PROGRAMMING DETAIL**

(remove jumpers and set switches as shown)



REMOVE JUMPERS AS SHOWN

**NOTES:**

1. Card is provided with all diode jumpers in place. Removal of any jumper allows its channels to run concurrently.
2. Ensure jumpers SEL2-SEL5 and SEL9 are present on the monitor board.
3. Ensure that Red Enable is active at all times during normal operation.
4. Integrate monitor with Ethernet network in cabinet.

**NOTES**

1. 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.
2. Enable Simultaneous Gap-Out for all phases.
3. Program phases 2 and 6 for Gap Reduction.
4. Program phases 2 and 6 for Start Up In Green.
5. Program phases 2 and 6 for Yellow Flash.
6. 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,S4,S5,\*\*S6,S8,\*\*S9  
 PHASES USED.....1,2,3,4,6  
 OVERLAPS.....NONE  
 \*\*USED FOR ADVANCE BEACONS

**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.	61	21,22	NU	31	32	41	42	**	NU	61,62	**	NU	NU	NU	NU	NU	NU	NU
RED	*	128		116	116	101	101			134								
YELLOW		129		117	117	102	102			135								
GREEN		130		118	118	103	103			136								
RED ARROW																		
YELLOW ARROW	126																	
GREEN ARROW	127			118		103												

NU = Not Used  
 \* Denotes install load resistor. See load resistor installation detail this sheet.  
 \*\* Special advance beacon will be wired to S6-Y (4 PED YELLOW) and S9-Y (6 PED YELLOW). See wiring and programming detail on sheet 2 of 2 of this electrical detail.

**BACKUP PROTECTION NOTE**

(program controller as shown below)

From Main Menu press '2' (Phase Control), then '1' (Phase Control Functions). Program phase 6 for 'Backup Protect'. Make sure the Red Revert times shown on the Signal Design Plans are programmed in the 'Phase Timing' menu.

**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	∅ 3	∅ 4	∅ 3	∅ 4	∅ 3	∅ 4	∅ 3	∅ 4	∅ 3	∅ 4	∅ 3	∅ 4
L	1A	2A	3A	4A	3A	4A	3A	4A	3A	4A	3A	4A	3A	4A
U	NOT USED	∅ 2	∅ 3	∅ 4	∅ 3	∅ 4	∅ 3	∅ 4	∅ 3	∅ 4	∅ 3	∅ 4	∅ 3	∅ 4
L	2B	3B	4B	3B	4B	3B	4B	3B	4B	3B	4B	3B	4B	3B

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

FS = FLASH SENSE  
 ST = STOP TIME

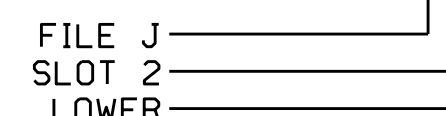
⊗ Wired Input - Do not populate slot with detector card

**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
1A <sup>1</sup>	TB2-1,2	I1U	56	18	1	1	Y	Y			15
	-	J4U	48	10	26	6	Y	Y	Y	2.0	5
2A	TB2-5,6	I2U	39	1	2	2	Y	Y			5
2B	TB2-7,8	I2L	43	5	12	2	Y	Y	Y	2.0	5
3A	TB4-5,6	I5U	58	20	3	3	Y	Y			5
4A	TB4-9,10	I6U	41	3	4	4	Y	Y			5
4B	TB4-11,12	I6L	45	7	14	4	Y	Y			15
6A/S1	TB3-5,6	J2U	40	2	6	6/SYS	Y	Y			

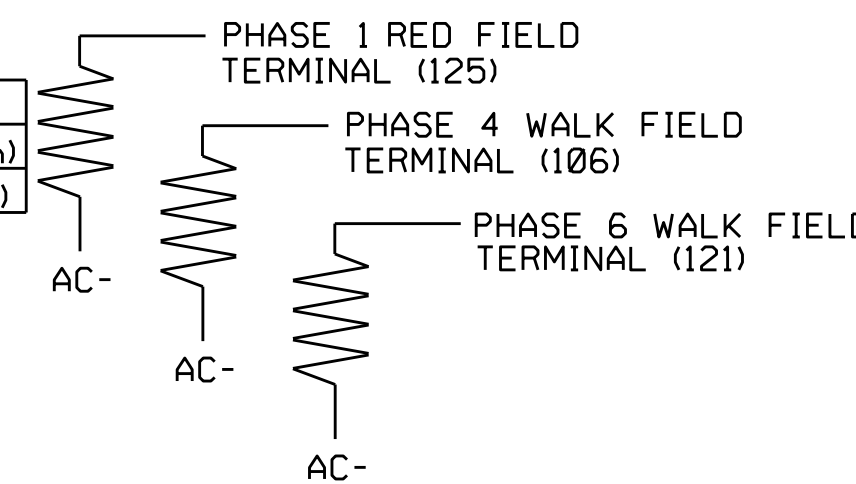
<sup>1</sup>Add jumper from I1-W to J4-W, on rear of input file.

INPUT FILE POSITION LEGEND: J2L



**LOAD RESISTOR INSTALLATION DETAIL**

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



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 13-1207  
 DESIGNED: May 2016  
 SEALED: 8-22-16  
 REVISED: N/A

Electrical Detail - Sheet 1 of 2

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared In the Offices of:  
  
 750 N. Grant Field Pkwy, Garner, NC 27529

NC 191 (Brevard Road) at Industrial Drive / Borg Warner Drive

Division 18 Buncombe County Asheville

PLAN DATE: July 2016 REVIEWED BY: BAS  
 PREPARED BY: James Peterson REVIEWED BY:

REVISIONS: INIT. DATE

DocuSigned by:  
  
 Keith M. Mins 8/30/2016  
 2580/BORGWARNER DATE

SIG. INVENTORY NO. 13-1207

30-AUG-2016 07:41 S:\TCS\ASIS\Sigma\work\gpc\gpc5\gpc5\work\peterson\31207\_sm.ele.xxx.dgn T.peterson