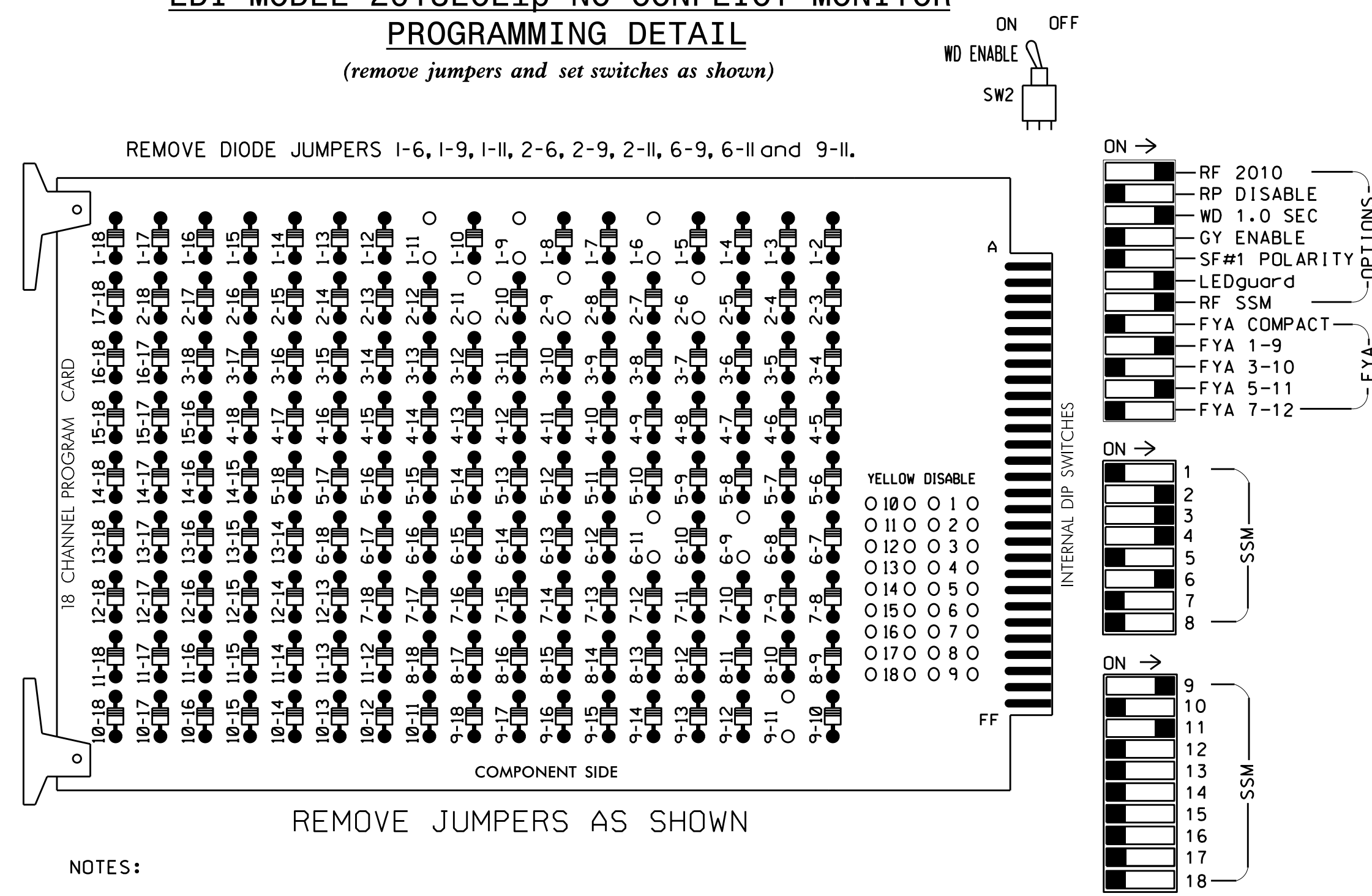


**EDI MODEL 2018EClip-NC CONFLICT MONITOR
PROGRAMMING DETAIL**

(remove jumpers and set switches 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 Variable Initial and Gap Reduction.
4. Program phases 2 and 6 for Start Up In Green.
5. Program phases 2 and 6 for Yellow Flash, and overlaps 1 as Wag Overlaps.
6. The cabinet and controller are part of the Asheville Signal System.

EQUIPMENT INFORMATION

CONTROLLER.....2070E
 CABINET.....332 W/ AUX
 SOFTWARE.....ECONOLITE OASIS 3.02.32E
 OR LATEST APPROVED VERSION
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE
 LOAD SWITCHES USED.....S1,S2,S4,S5,S8,AUX S1,AUX S4
 PHASES USED.....1,2,3,4,6
 OVERLAP "A".....1+2
 OVERLAP "B".....NOT USED
 OVERLAP "C".....6
 OVERLAP "D".....NOT USED
 OVERLAP "P".....1+2+3+4+6

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	
GMU 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*	22,23	NU	31	32,33	41	42	NU	NU	61,62	NU	NU	NU	NU	11*	NU	NU	21*	NU
RED		128		116	116	101	101			134									
YELLOW	*	129		117	117	102	102			135									
GREEN		130		118	118	103	103			136									
RED ARROW													A121					A114	
YELLOW ARROW													A122					A115	
FLASHING YELLOW ARROW													A123					A116	
GREEN ARROW	127			118	103														

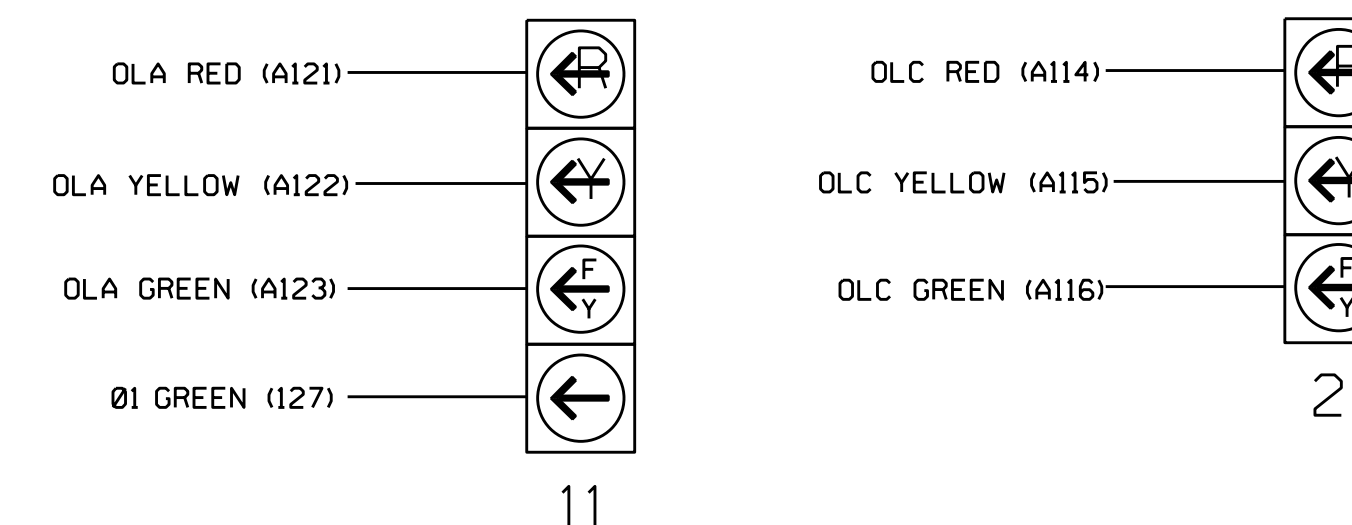
NU = Not Used

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

* See pictorial of head wiring in detail below.

FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



NOTE

1. The sequence display for signal head 11 requires special logic programming. See sheet 2 of 3 for programming instructions.

INPUT FILE POSITION LAYOUT

(front view)

FILE "I"	1	2	3	4	5	6	7	8	9	10	11	12	13	14
U	Ø 1	Ø 2	Ø 3	Ø 4	Ø 5	Ø 6	Ø 7	Ø 8	Ø 9	Ø 10	Ø 11	Ø 12	Ø 13	FS
L	1A	2A	3A	4A	5A	6A	7A	8A	9A	10A	11A	12A	13A	DC ISOLATOR
U	NOT USED	Ø 2	Ø 3	NOT USED	Ø 5	Ø 6	Ø 7	Ø 8	Ø 9	Ø 10	Ø 11	Ø 12	Ø 13	DC ISOLATOR
L	2B	3B	4B	5B	6B	7B	8B	9B	10B	11B	12B	13B	14B	DC ISOLATOR
U	Ø 6/SYS	Ø 6/S1	Ø 6/SYS	Ø 6/S2	Ø 6/SYS	Ø 6/S1	Ø 6/SYS	Ø 6/S2	Ø 6/SYS	Ø 6/S1	Ø 6/SYS	Ø 6/S2	Ø 6/SYS	PREL
L	6A/S1	6B/S2	6C/S3	6D/S4	6E/S5	6F/S6	6G/S7	6H/S8	6I/S9	6J/S10	6K/S11	6L/S12	6M/S13	AC ISOLATOR
U	Ø 6/SYS	Ø 6/S1	Ø 6/SYS	Ø 6/S2	Ø 6/SYS	Ø 6/S1	Ø 6/SYS	Ø 6/S2	Ø 6/SYS	Ø 6/S1	Ø 6/SYS	Ø 6/S2	Ø 6/SYS	NOT USED
L	6B/S2	6C/S3	6D/S4	6E/S5	6F/S6	6G/S7	6H/S8	6I/S9	6J/S10	6K/S11	6L/S12	6M/S13	6N/S14	NOT USED

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

FS = FLASH SENSE
 ST = STOP TIME
 PRE = PREEMPT

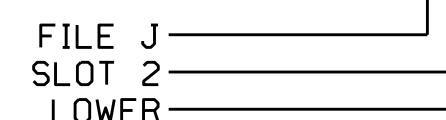
⊗ Wired Input - Do not populate slot with detector card

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 ¹	TB2-1,2	I1U	56	18	1	1	Y	Y			15
	-	J4U	48	10	26	6	Y	Y	Y		3
2A	TB2-5,6	I2U	39	1	2	2	Y	Y			
2B	TB2-7,8	I2L	43	5	12	2	Y	Y			
3A	TB4-9,10	I6U	41	3	4	3	Y	Y			
3B	TB4-11,12	I6L	45	7	14	3	Y	Y			5
4A	TB6-1,2	I7U	65	27	34	4	Y	Y			5
6A/S1	TB3-5,6	J2U	40	2	6	6/SYS	Y	Y			
6B/S2	TB3-7,8	J2L	44	6	16	6/SYS	Y	Y			

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

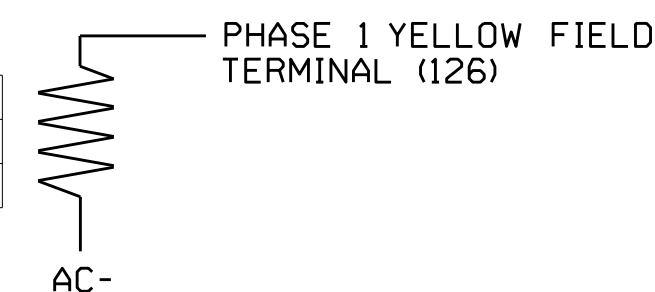
INPUT FILE POSITION LEGEND: J2L



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 Detail Sheet 1 of 3

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

US 19-23 (Smokey Park Hwy.)
 at
 SR 3613 (Enka Quarry Rd.)/
 SR 1233 (Rutherford Rd.)

Division 13 Buncombe County Enka
 PLAN DATE: September 2016 REVIEWED BY: K.M. Mims
 PREPARED BY: Z.M. Little REVIEWED BY:

REVISIONS INIT. DATE

DocuSigned by:
 Keith M. Mims 11/3/2016
 2F80786EBC03445 DATE

SIG. INVENTORY NO. 13-0816