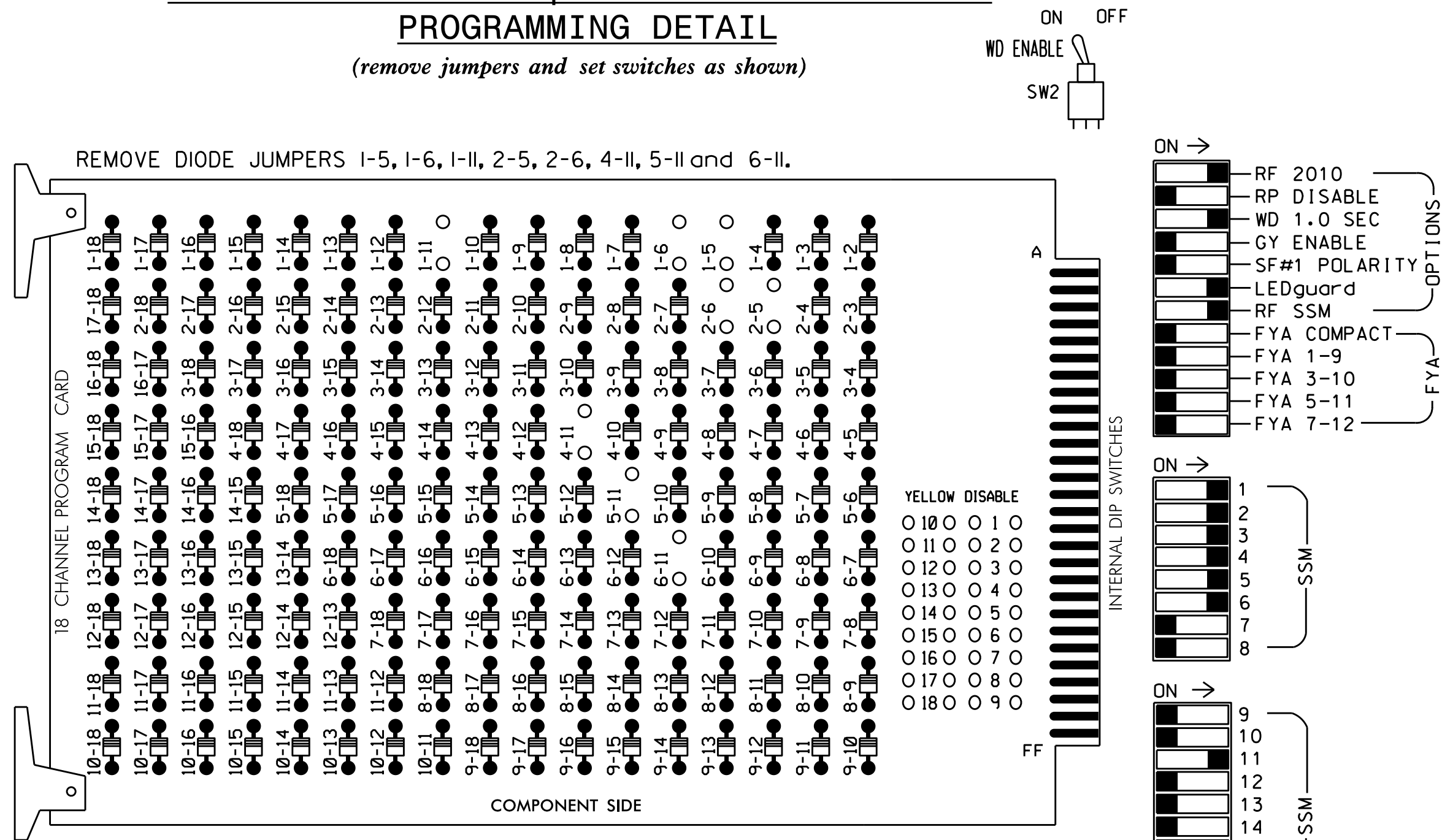


EDI MODEL 2018ECLIP-NC CONFLICT MONITOR PROGRAMMING DETAIL

(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,S4,S5,S7,S8,AUX S4
 PHASES USED.....1,2,3,4,5,6
 OVERLAP "A".....NOT USED
 OVERLAP "B".....NOT USED
 OVERLAP "C".....*
 OVERLAP "D".....NOT USED

* See overlap programming detail 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	
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.	11,12	21,22,23	NU	31	32	23	41	42	NU	51	61,62	NU	NU	NU	NU	NU	43,44	NU	NU
RED	128		116	116	101	101			134								A114		
YELLOW	129		117	117	102	102			135										
GREEN	130		118	118	103	103			136										
RED ARROW	125								131										
YELLOW ARROW	126				102				132								A115		
GREEN ARROW	127		118		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

INPUT FILE POSITION LAYOUT

(front view)

FILE "I"	1	2	3	4	5	6	7	8	9	10	11	12	13	14
U	∅ 1	∅ 1	∅ 2	S-O	∅ 3	∅ 4	S-O	S-O	S-O	S-O	S-O	S-O	S-O	FS
L	1A	1C	2A,2B,2C	←-VZM	3A	4A	←-VZM	←-VZM	←-VZM	←-VZM	←-VZM	←-VZM	←-VZM	DC ISOLATOR
U	∅ 5	∅ 6	S-O	S-O	S-O	S-O	S-O	S-O	S-O	S-O	S-O	S-O	S-O	DC ISOLATOR
L	5A	6A,6B	←-VZM	←-VZM	←-VZM	←-VZM	←-VZM	←-VZM	←-VZM	←-VZM	←-VZM	←-VZM	←-VZM	DC ISOLATOR
U	NOT USED	NOT USED	←-VZM	←-VZM	←-VZM	←-VZM	←-VZM	←-VZM	←-VZM	←-VZM	←-VZM	←-VZM	←-VZM	DC ISOLATOR
L	NOT USED	NOT USED	←-VZM	←-VZM	←-VZM	←-VZM	←-VZM	←-VZM	←-VZM	←-VZM	←-VZM	←-VZM	←-VZM	DC ISOLATOR

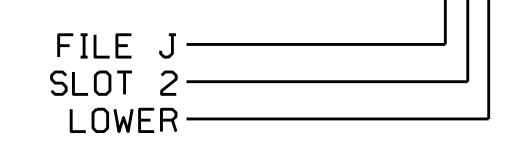
EX.: 1A, 2A, ETC. = LOOP NO.'S

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
1B	TB2-3,4	I1L	56	1	1	YES			S
1C	TB2-5,6	I2U	39	2	1	YES			S
1D	TB2-7,8	I2L	43	12	1	YES		15	S
2A,2B,2C	TB2-9,10	I3U	63	32	2	YES			N
3A	TB4-5,6	I5U	58	3	3	YES		15	S
4A	TB4-9,10	I6U	41	4	4	YES		3	S
5A	TB3-1,2	J1U	55	5	5	YES			S
6A,6B	TB3-5,6	J2U	40	6	6	YES			N

INPUT FILE POSITION LEGEND: J2L



FLASHER CIRCUIT MODIFICATION DETAIL

IN ORDER TO INSURE 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

US 401 (Raeford Road) at SR 1141 (Bingham Drive)

Division 6 Cumberland County Fayetteville

PLAN DATE: June 2016 REVIEWED BY: DTJ

PREPARED BY: James Peterson REVIEWED BY:

REVISIONS INIT. DATE

750 N. Greenfield Pkwy, Garner, NC 27529

SEAL NORTH CAROLINA PROFESSIONAL ENGINEER KEITH M. MINIS

DocuSigned by: Keith M. Minis 8/9/2016

SIG. INVENTORY NO. 06-0358

06-10-2016 07:30 S:\TCS\51\TCS\Sigma\work\grouse\51g_Mon\eter\son\060358_smc.ele...xxx.dgn J.peterson