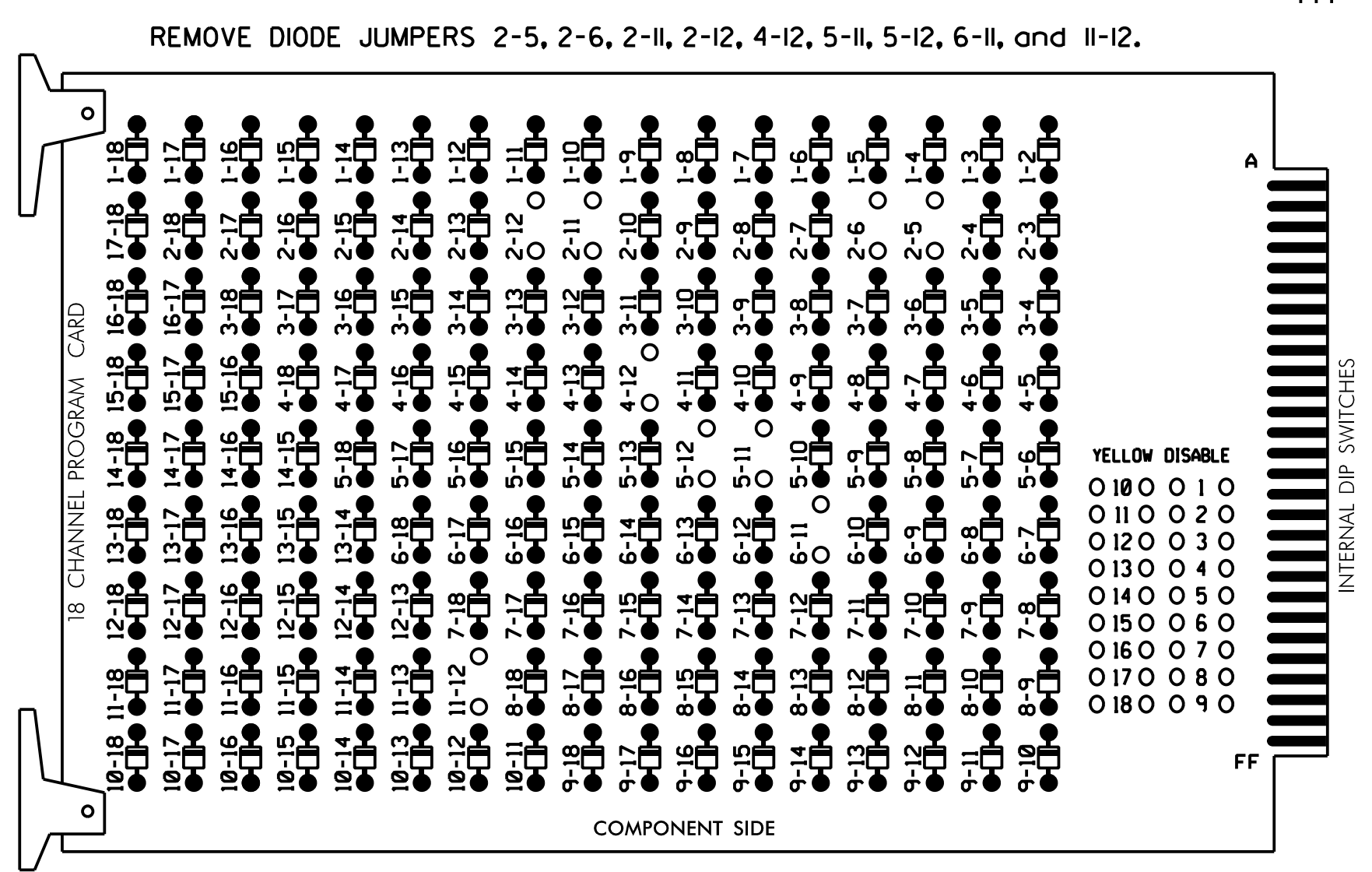


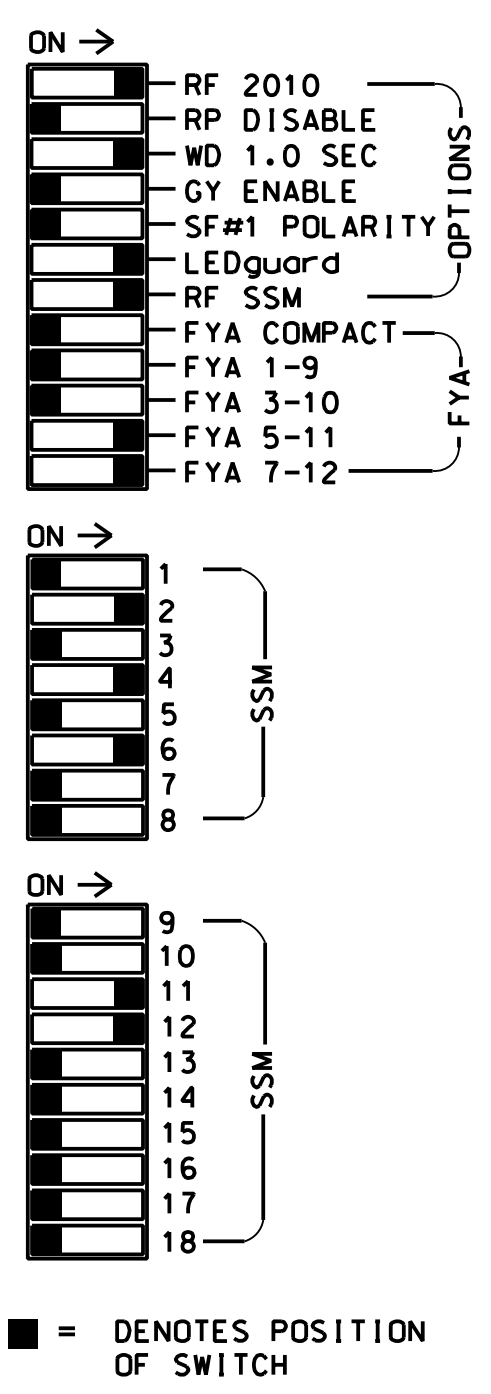
EDI MODEL 2018ECL-NC CONFLICT MONITOR PROGRAMMING DETAIL

(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.
- Connect serial cable from conflict monitor to comm. port 1 of 2070 controller. Ensure conflict monitor communicates with 2070.



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 Variable Initial and Gap Reduction.
- Program phases 2 and 6 for Startup In Green.
- Program phases 2 and 6 for Yellow Flash.
- If this signal will be managed by an ATMS software, enable controller and detector logging for all detectors used at this location.
- The cabinet and controller are part of the NC 133 Closed Loop System.

EQUIPMENT INFORMATION

CONTROLLER.....2070E
 CABINET332 W/ AUX
 SOFTWAREECONOLITE OASIS
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS..18 WITH AUX. OUTPUT FILE
 LOAD SWITCHES USED....S2,S5,S7,S8,AUX S4,AUX S5
 PHASES USED.....2,4,5,6
 OVERLAP "A".....NOT USED
 OVERLAP "B".....NOT USED
 OVERLAP "C".....5+6
 OVERLAP "D".....4+5

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
CHU 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.	NU	21,22	NU	NU	41,42	NU	51★	61,62	NU	NU	NU	NU	NU	NU	NU	51★	43,44★	NU
RED		128			101			134										A101
YELLOW		129			102		*	135										
GREEN		130			103			136										
RED ARROW																		A114
YELLOW ARROW																		A115 A102
FLASHING YELLOW ARROW																		A116 A103
GREEN ARROW								133										

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 "I"	1	2	3	4	5	6	7	8	9	10	11	12	13	14
U	S	∅2/SYS	S	∅4	S	S	S	S	S	S	S	S	S	FS
L	2A/S29	∅2/SYS	∅4	4A	∅4	∅4	∅4	∅4	∅4	∅4	∅4	∅4	∅4	DC ISOLATOR
U	∅5	∅5	∅6/SYS	S	S	S	S	S	S	S	S	S	S	ST
L	5A	5B	6A/S31	∅6/SYS	∅6/SYS	∅6/SYS	∅6/SYS	∅6/SYS	∅6/SYS	∅6/SYS	∅6/SYS	∅6/SYS	∅6/SYS	DC ISOLATOR
U	NOT USED	NOT USED	∅6/SYS	S	S	S	S	S	S	S	S	S	S	
L			6B/S32	∅6/SYS	∅6/SYS	∅6/SYS	∅6/SYS	∅6/SYS	∅6/SYS	∅6/SYS	∅6/SYS	∅6/SYS	∅6/SYS	

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

FS = FLASH SENSE
 ST = STOP TIME

⊗ Wired Input - Do not populate slot with detector card

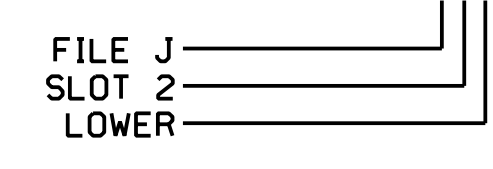
INPUT FILE CONNECTION & PROGRAMMING CHART

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
2A/S29	TB2-5,6	I2U	39	1	2	2/SYS	Y	Y			
2B/S30	TB2-7,8	I2L	43	5	12	2/SYS	Y	Y			
4A	TB4-9,10	I6U	41	3	4	4	Y	Y			3
5A ¹	TB3-1,2	J1U	55	17	5	5	Y	Y			15
	-	I4U	47	9★	22	2	Y	Y	Y		3
5B	-	J1U	55	17★	55	5	Y	Y			3
	TB3-5,6	J2U	40	2	6	5	Y	Y			15
6A/S31	TB3-9,10	J3U	64	26	36	6/SYS	Y	Y			
6B/S32	TB3-11,12	J3L	77	39	46	6/SYS	Y	Y			

¹Add jumper from J1-W to I4-W, on rear of input file.

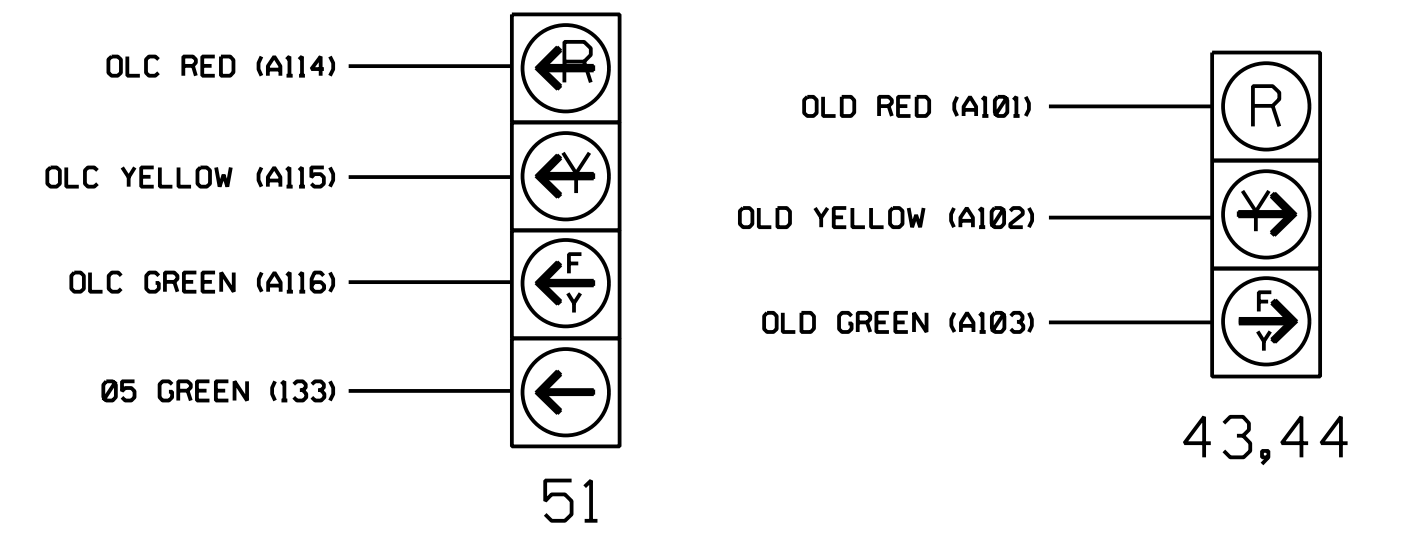
★ See vehicle detector setup programming detail for alternate phasing on sheet 3.

INPUT FILE POSITION LEGEND: J2L



FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



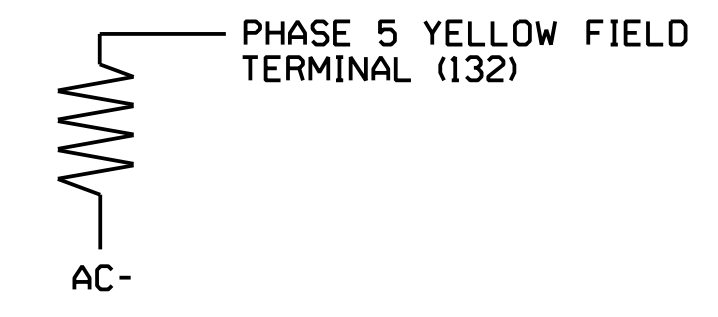
NOTE

The sequence display for signal head 51 requires special logic programming. See sheet 2 for programming instructions.

LOAD RESISTOR INSTALLATION DETAIL

(install resistor as shown)

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



Electrical Detail - Sheet 1 of 4
 Signal Upgrade
 Final Design

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

	Prepared for: 		NC 211 (Southport-Supply Road) at Doshier Cut Off		SEAL
	Division 03 Brunswick Co. Southport		PLAN DATE: June 2017 REVIEWED BY: A.D. Klinksiek PREPARED BY: A.H. Thornburg REVIEWED BY: N.R. Simmons		
HNTB NORTH CAROLINA, P.C. 343 E. Six Forks Road, Suite 200 Raleigh, North Carolina 27609 NC License No: C-1554 (919) 546-8997		Revisions Table: REVISIONS INIT. DATE		Signature of Natasha R. Simmons dated 9/10/2021 DATE: 9/10/2021 SIGNATURE: _____ SIG. INVENTORY NO. 03-0267	