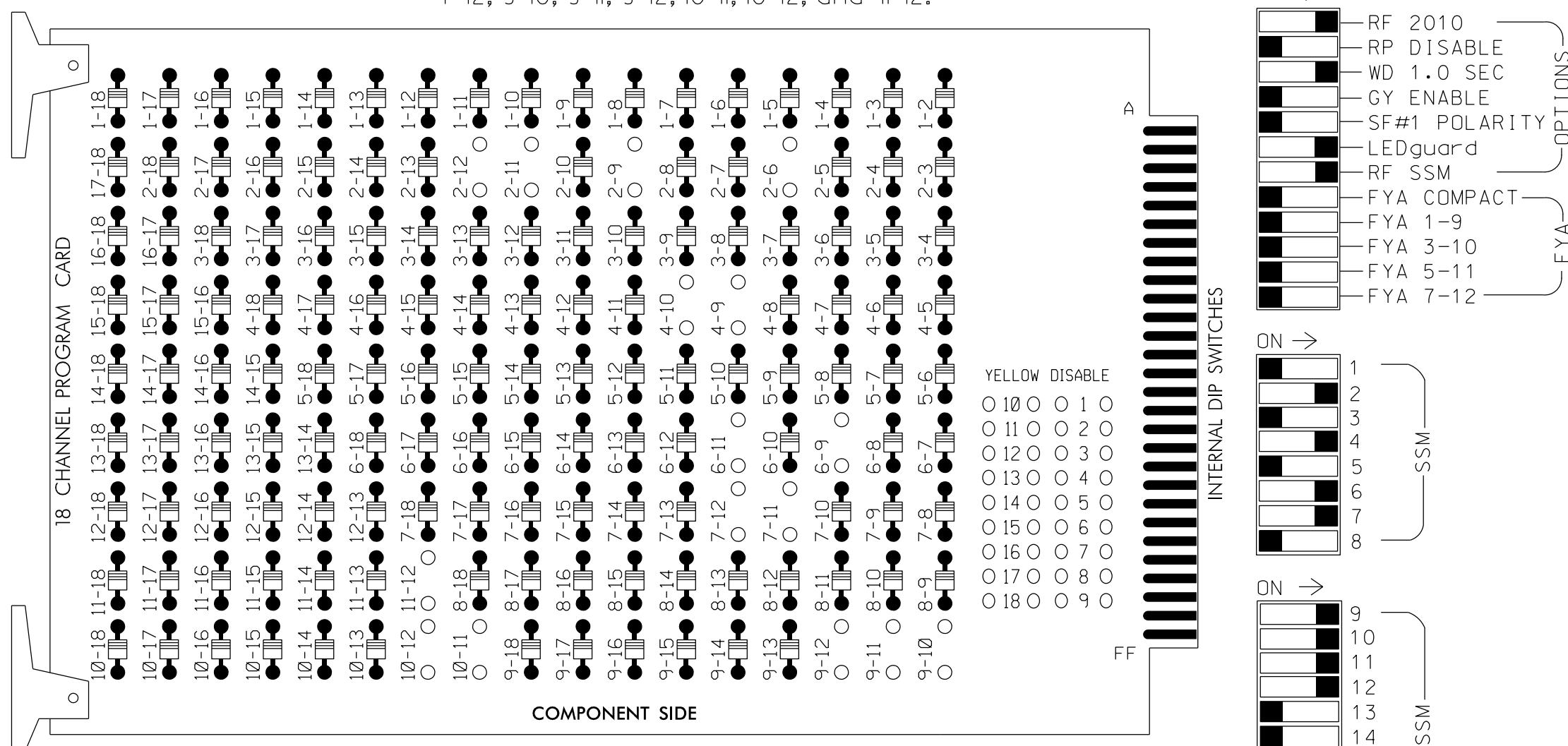


**EDI MODEL 2018ECL-NC CONFLICT MONITOR PROGRAMMING DETAIL**  
(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 2-6, 2-9, 2-11, 2-12, 4-9, 4-10, 6-9, 6-11, 7-11, 7-12, 9-10, 9-11, 9-12, 10-11, 10-12, and 11-12.



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.
- 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 Start Up In Green.
- Program phases 2 and 6 for Yellow Flash, and overlaps 1 and 2 as Wag overlaps.

**EQUIPMENT INFORMATION**

CONTROLLER.....2070  
 CABINET.....332 W/ AUX  
 SOFTWARE.....ECONOLITE OASIS  
 CABINET MOUNT.....BASE  
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE  
 LOAD SWITCHES USED.....S2,S5,S8,S10,AUX S1,  
 AUX S2,AUX S4,AUX S5  
 PHASES USED.....2,3\*,4,5\*,6,7  
 OVERLAP A.....3+4+6  
 OVERLAP B.....3+4  
 OVERLAP C.....2+3+7  
 OVERLAP D.....3+5+7  
 \*PHASE USED FOR TIMING PURPOSES ONLY

**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.	NU	21,22	NU	NC	41	42	NU	NC	61,62	NU	71	72	NU	NU	63,64	63	NU	23,24	51	NU	
RED		128			101	101			134		122	122			A121	*		A114			
YELLOW		129			102	102			135		123	123			A122			A115			
GREEN		130			103	103			136		124	124			A123			A116			
RED ARROW																					A101
YELLOW ARROW															A125						A102
GREEN ARROW					103						124				A126						A103

NU = Not Used  
 NC = Not Connected  
 \* Denotes install load resistor. See load resistor installation detail this sheet.

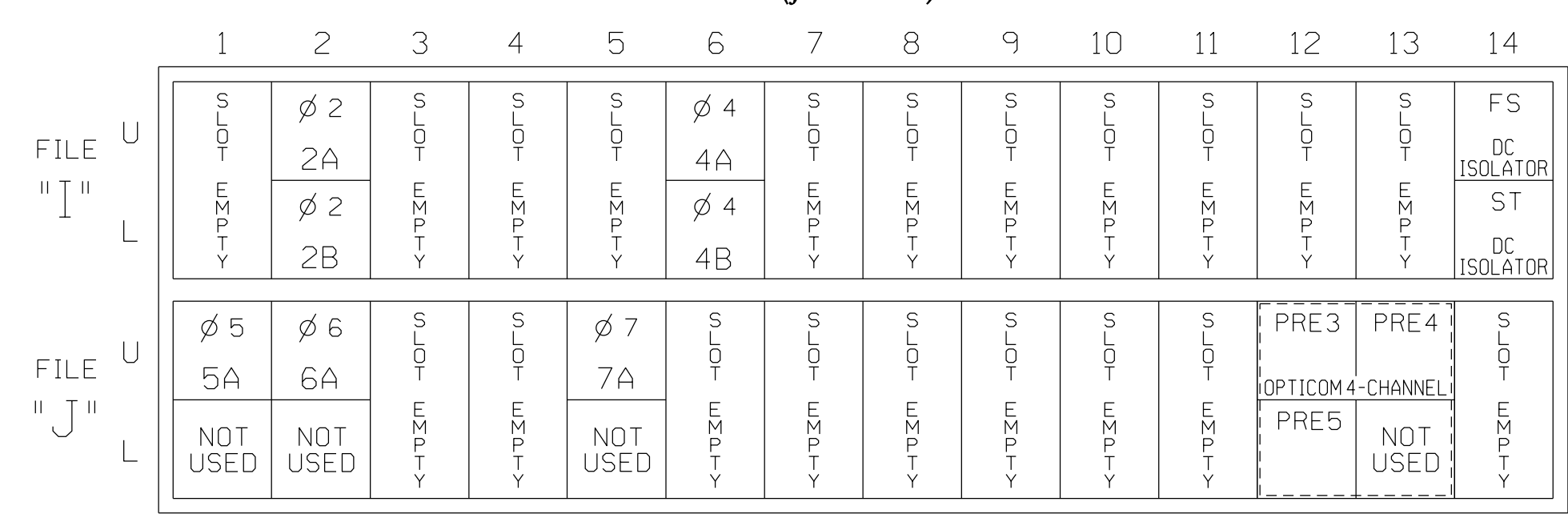
**DYNAMIC BACK-UP CONTROL PROGRAMMING**  
(program controller as shown below)

- From Main Menu press '2' (Phase Control), then '1' (Phase Control Functions). Scroll to the bottom of the menu and enable Dynamic/Backup Control Function 1.
- From Phase Control Functions Menu press '2' (Dynamic/Backup Control Functions).

DYNAMIC/BACKUP CONTROL FUNCTION #01  
 OVERLAPS: ABCDEFGHIJKLMNPO  
 IF OVERLAPS ARE ACTIVE !  
 OR PHASES: 12345678910111213141516  
 IF PHASES ARE ON: X  
 OMIT PHASES: XX X  
 CALL PHASES: X

BACKUP PROTECTION PROGRAMMING COMPLETE

**INPUT FILE POSITION LAYOUT**  
(front view)



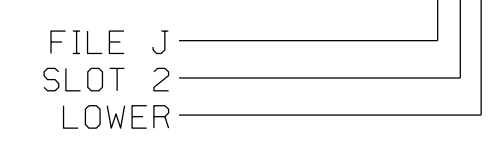
EX.: 1A, 2A, ETC. = LOOP NO.'S

FS = FLASH SENSE  
 ST = STOP TIME

**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	*	I2U	39	1	2	2	Y	Y			
2B	*	I2L	43	5	12	2	Y	Y			
4A	*	I6U	41	3	4	4	Y	Y			3
4B	*	I6L	45	7	14	4	Y	Y			
5A	TB3-1,2	J1U	55	17	5	5	Y	Y			3
6A	*	J2U	40	2	6	6	Y	Y			
7A	TB5-5,6	J5U	57	19	7	7	Y	Y			3

INPUT FILE POSITION LEGEND: J2L

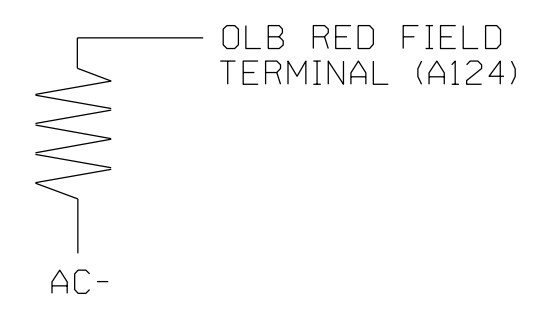


**\* SPECIAL DETECTOR NOTE**

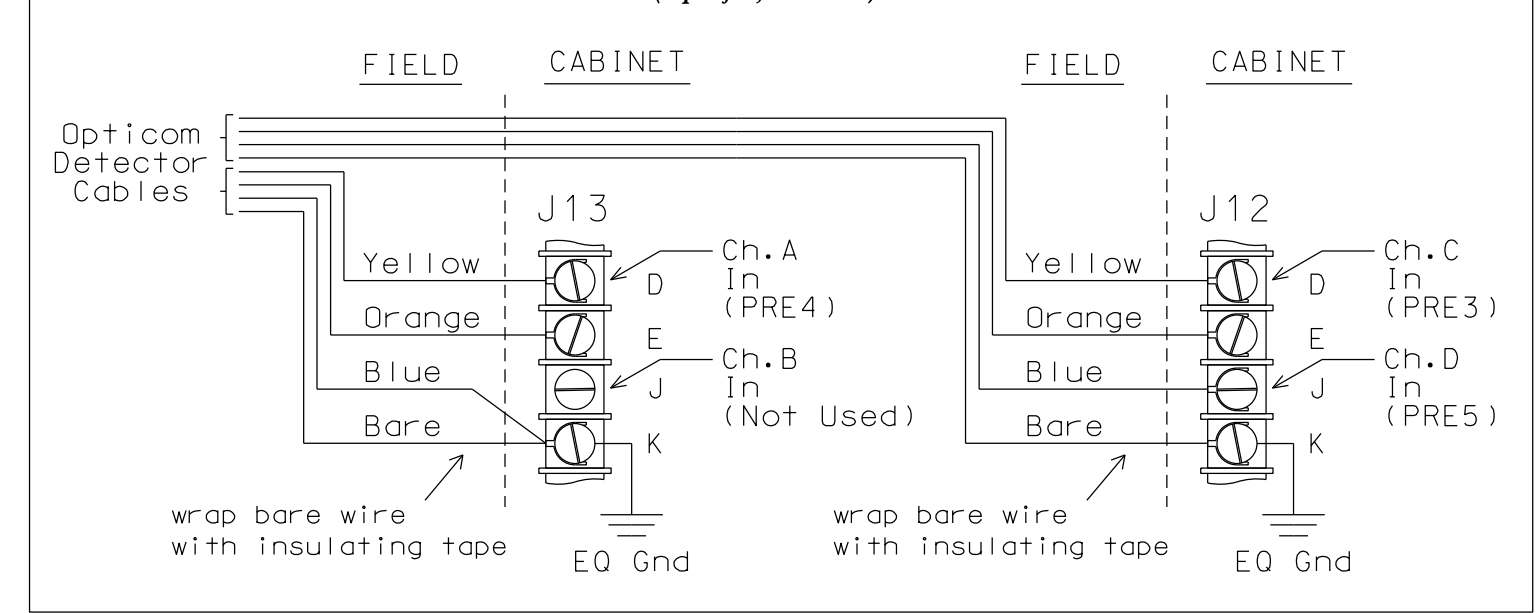
For zones 2A, 2B, 4A, 4B, and 6A, install a video detection system for vehicle detection. Perform installation according to manufacturer's directions and NCDOT engineer-approved mounting locations to accomplish the detection schemes shown on the Signal Design Plans.

**LOAD RESISTOR INSTALLATION DETAIL**

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



**TYPICAL OPTICOM FIELD WIRE DETAIL**  
(input file, rear view)



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 12-0600T1  
 DESIGNED: March 2022  
 SEALED: 03/01/2022  
 REVISED: N/A

This plan supersedes the plan signed and sealed on 11/13/2018.

Electrical Detail -Temporary Phase I-Sheet 1 of 2

US 74 Business (Marion Street) at NC 150 (Cherryville Road)/ SR 2053 (Peach Street)

Division 12 Cleveland County Shelby

PLAN DATE: March 2022 REVIEWED BY: J. Ma

PREPARED BY: M. L. Stygles REVIEWED BY:

REVISIONS INIT. DATE

DocuSigned by: *Marion Ma* 3/1/2022

750 N. Greenfield Pkwy, Garner, NC 27529



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 033108 J. L. ANXIN MA

SIG. INVENTORY NO. 12-0600T1