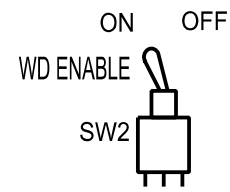
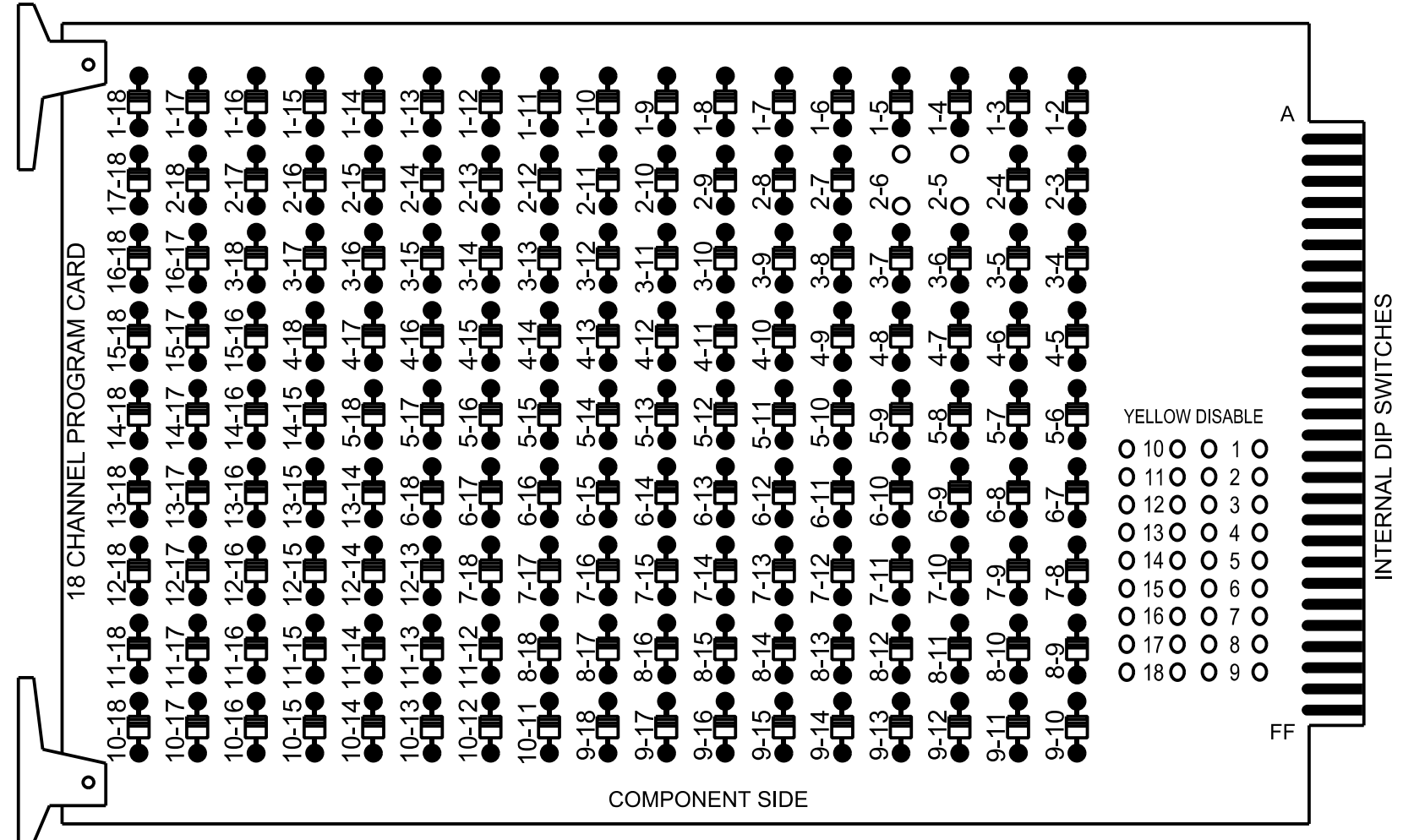


### 18 CHANNEL IP CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)



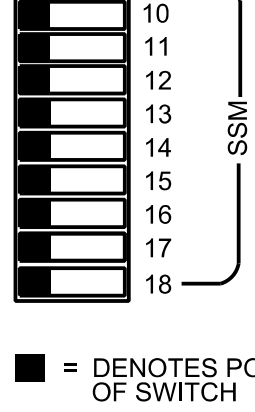
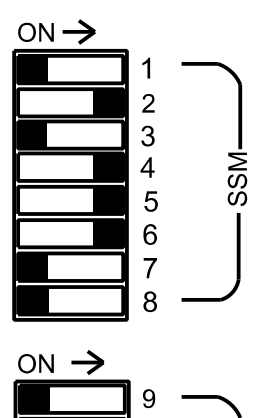
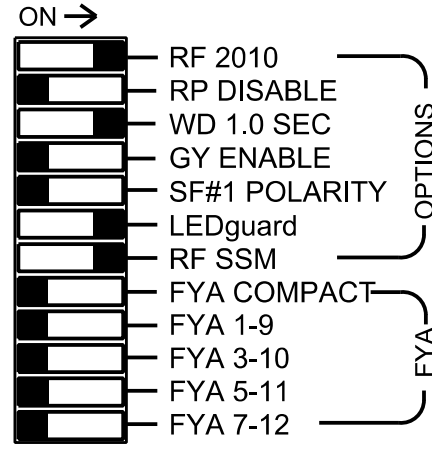
REMOVE DIODE JUMPERS 2-5 and 2-6.



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 the Red Enable is active at all times during normal operation.
- 4. Integrate monitor with Ethernet network in cabinet.



■ = DENOTES POSITION OF SWITCH

### 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. Return controller to Factory Defaults before programming per this electrical detail.
- 3. Program controller to start up in phase 2 Green No Walk and 6 Green No Walk.
- 4. If this signal will be managed by an ATMS software, enable controller and detector logging for all enabled detectors used at this location.

### EQUIPMENT INFORMATION

Controller.....2070LX  
 Cabinet.....332 w/ Aux  
 Software.....Q-Free MAXTIME  
 Cabinet Mount.....Base  
 Output File Positions.....18 With Aux. Output File  
 Load Switches Used.....S2,S5,S7,S8  
 Phases Used.....2,4,5,6  
 Overlap "1".....NOT USED  
 Overlap "2".....NOT USED  
 Overlap "3".....NOT USED  
 Overlap "4".....NOT USED

\*See overlap programming detail on sheet 2

### 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	3 PED	OL1	OL2	SPARE	OL3	OL4	SPARE
SIGNAL HEAD NO.	NU	21,22	NU	NU	41	42	NU	21,42	61,62	NU	NU	NU	NU	NU	NU	NU	NU	NU
RED		128			101	101		*	134									
YELLOW		129			102	102			135									
GREEN		130			103	103			136									
RED ARROW																		
YELLOW ARROW								132										
FLASHING YELLOW ARROW																		
GREEN ARROW					103			133										

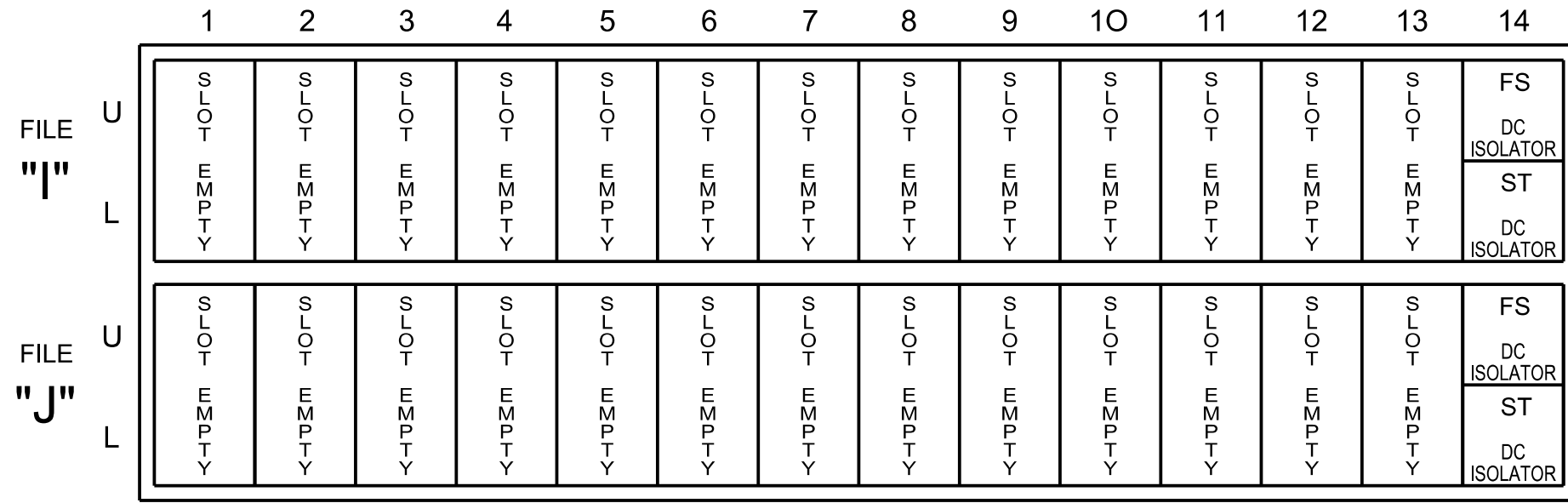
NU = Not Used

\* 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)



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

FS = FLASH SENSE  
ST = STOP TIME

### SPECIAL DETECTOR NOTE

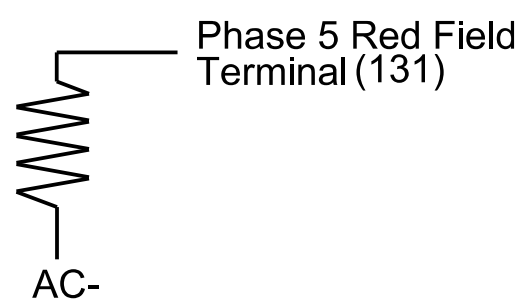
Install a multizone microwave detection system for vehicle detection. Perform installation according to manufacturer's directions and NCDOT engineer-approved mounting locations to accomplish the detection schemes shown on the Signal Design Plans.

### LOAD RESISTOR INSTALLATION DETAIL

(install resistor as shown)

ACCEPTABLE VALUES	
Value (ohms)	Wattage
1.5K - 1.9K	25W (min)
2.0K - 3.0K	10W (min)

Remove Phase 1 Yellow (if Present)



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 08-0246T2  
 DESIGNED: AUGUST 2021  
 SEALED: 05/21/2024  
 REVISED:

Signal Upgrade -  
Temporary Design 2  
Electrical Detail

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

Prepared for the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

SR 1713 (Albemarle Rd)  
at  
SR 1446 (Lewallen Rd) and  
SR 1450 (Brookway Rd)

Division 8 Randolph County Asheboro

PLAN DATE: August 2021    REVIEWED BY: A.D. Klinksiek  
 PREPARED BY: N.K. Vlanich    REVIEWED BY: N.R. Simmons

REVISIONS	INIT.	DATE

DocuSigned by:  
*Natasha R. Simmons*    5/21/2024  
 DATE

SIG. INVENTORY NO. 08-0246T2