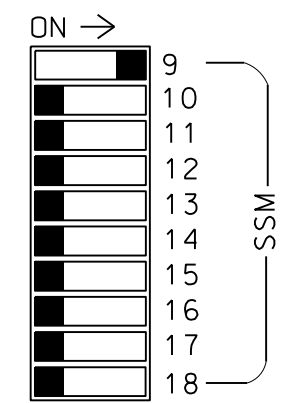
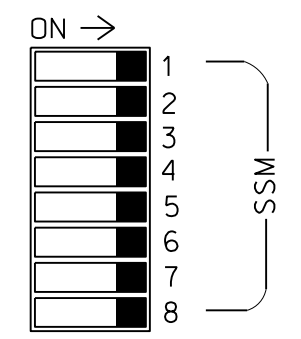
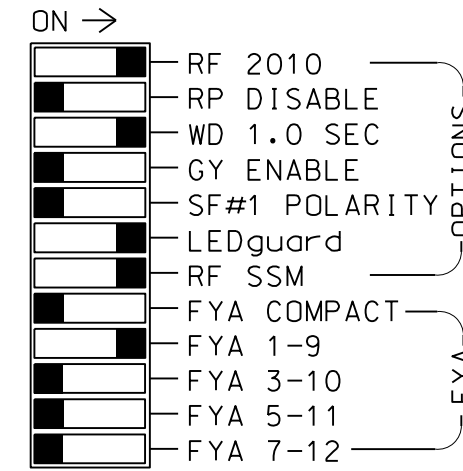
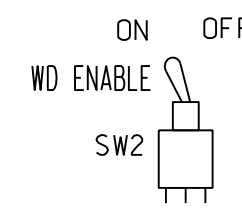
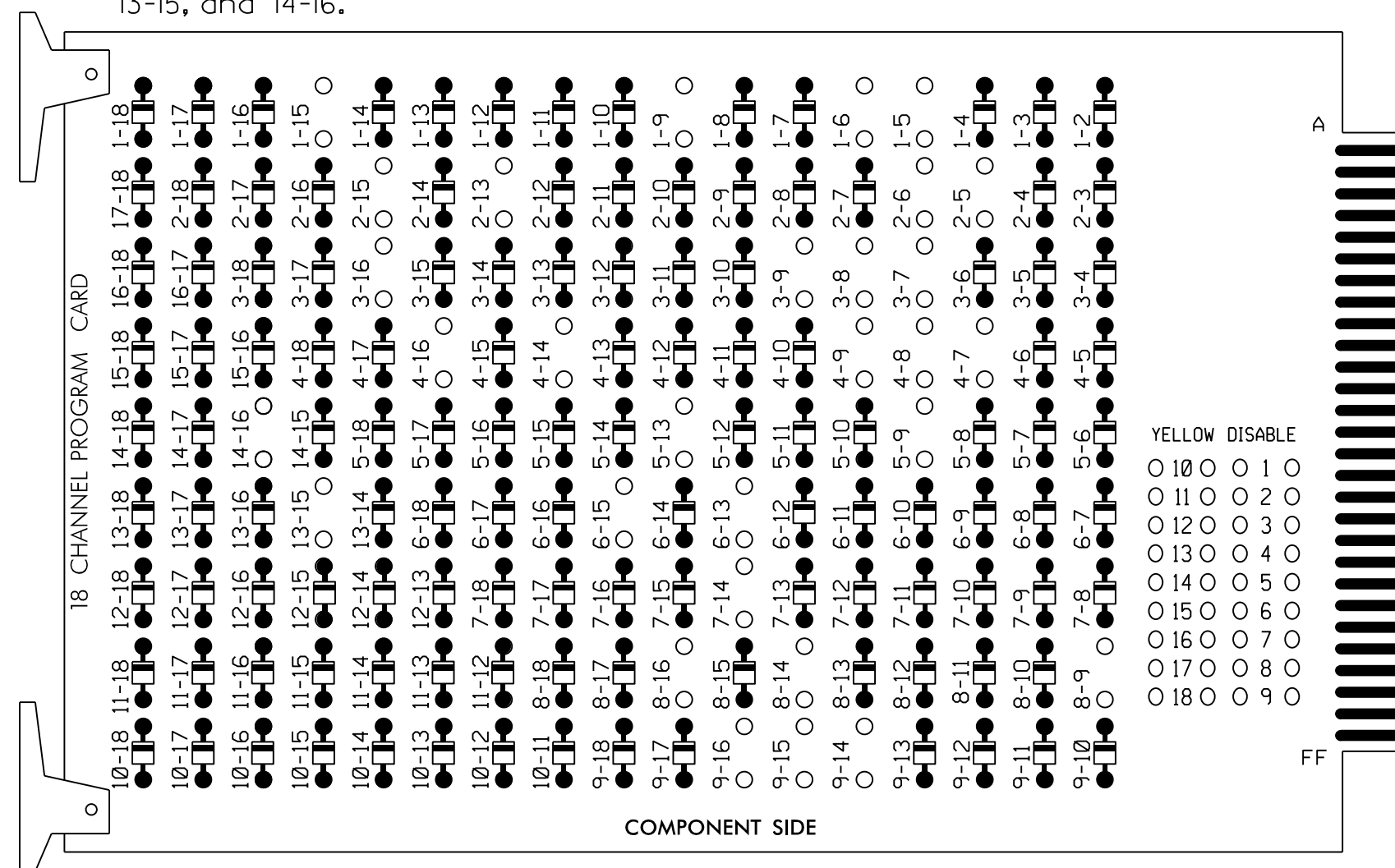


### 18 CHANNEL IP CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 1-5, 1-6, 1-9, 1-15, 2-5, 2-6, 2-13, 2-15, 3-7, 3-8, 3-9, 3-16, 4-7, 4-8, 4-9, 4-14, 4-16, 5-9, 5-13, 6-13, 6-15, 7-14, 8-9, 8-14, 8-16, 9-14, 9-15, 9-16, 13-15, and 14-16.



■ = DENOTES POSITION OF SWITCH

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.
- 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.
- Program controller to start up in phase 2 Green and 6 Green.
- 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 Burlington-Graham Signal System.

### EQUIPMENT INFORMATION

CONTROLLER.....2070LX  
 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,S3,S4,S5,S6,S7,S8,  
 S9,S10,S11,S12,AUX S1  
 PHASES USED.....1,2,2PED,3,4,4PED,5,6,  
 6PED,7,8,8PED  
 OVERLAP "A".....\*  
 OVERLAP "B".....NOT USED  
 OVERLAP "C".....NOT USED  
 OVERLAP "D".....NOT USED  
 OVERLAP "G".....\*  
 \* See overlap programming detail on sheet 2

### SIGNAL HEAD HOOK-UP CHART

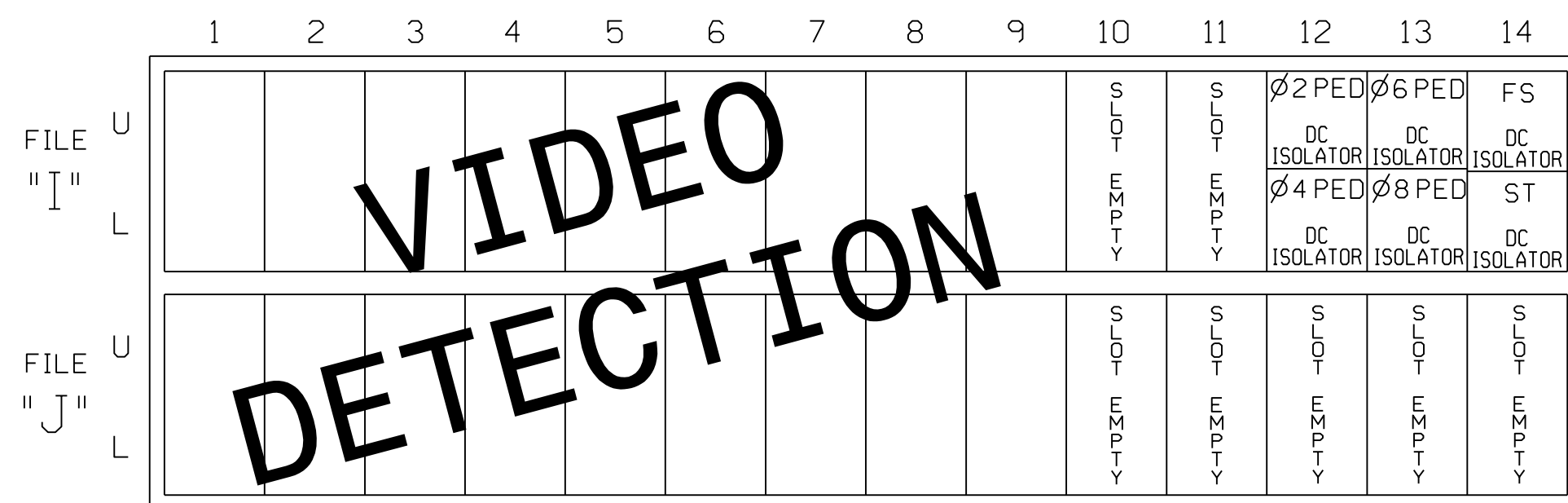
LOAD SWITCH NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	AUX S1	AUX S2	AUX S3	AUX S4	AUX S5	AUX S6
CMU CHANNEL NO.	1	2	13	3	4	14	5	6	15	7	8	16	9	10	17	11	12	18
PHASE	1	2	2 PED	3	4	4 PED	5	6	6 PED	7	8	8 PED	OLA	OLB	SPARE	OLC	OLD	SPARE
SIGNAL HEAD NO.	11,12	84	21,22	P21, P22	31,32	41,42, 43	P41, P42	51	61,62	P61, P62	71,72	81,82, 83	P81, P82	84	NU	NU	NU	NU
RED		128		101				134			107		A121					
YELLOW		129		102				135			108							
GREEN		130		103				136			109							
RED ARROW	125			116				131			122							
YELLOW ARROW	126			117				132			123		A122					
FLASHING YELLOW ARROW													A123					
GREEN ARROW	127	127		118				133			124							
Hand icon				113				104			119		110					
Person icon				115				106			121		112					

NU = Not Used

★ See pictorial of head wiring in detail this sheet.

### INPUT FILE POSITION LAYOUT

(front view)



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

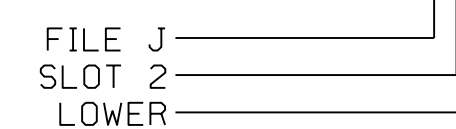
FS = FLASH SENSE  
 ST = STOP TIME

### INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND TIME	DELAY TIME	ADDED INITIAL	DETECTOR TYPE
PED PUSH BUTTONS										
P21,P22	TB8-4,6	I12U	67	PED 2	2 PED					
P41,P42	TB8-5,6	I12L	69	PED 4	4 PED					
P61,P62	TB8-7,9	I13U	68	PED 6	6 PED					
P81,P82	TB8-8,9	I13L	70	PED 8	8 PED					

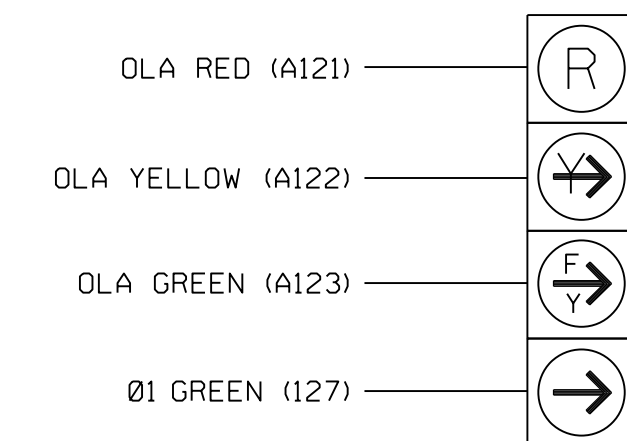
NOTE:  
 INSTALL DC ISOLATORS  
 IN INPUT FILE SLOTS  
 I12 AND I13.

INPUT FILE POSITION LEGEND: J2L



### FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



84

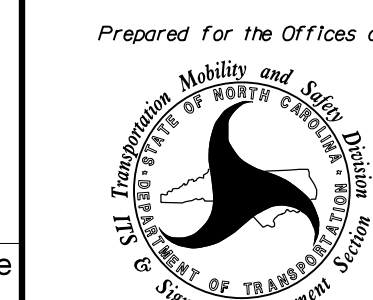
### SPECIAL VIDEO DETECTION NOTE

Install a video detection system for vehicle detection. Perform installation in accordance with manufacturer's directions and NCDOT engineer approved mounting locations to accomplish the detection schemes shown on the Signal Plans.

THIS ELECTRICAL DETAIL IS FOR  
 THE SIGNAL DESIGN: 07-0112T2  
 DESIGNED: March 2024  
 SEALED: 3-7-2024  
 REVISED: N/A

Electrical Detail - Sheet 1 of 2

ELECTRICAL AND PROGRAMMING DETAILS FOR:



US 70 (S. Church Street)  
 at  
 SR 1158 (Huffman Mill Road) /  
 Shadowbrook Drive  
 Division 7 Alamance County Burlington  
 PLAN DATE: March 2024 REVIEWED BY: J.T. Rowe, Jr.  
 PREPARED BY: J.T. Rowe, Jr. REVIEWED BY:  
 REVISIONS INIT. DATE  
 1 Glenwood Avenue  
 Raleigh, NC 27603  
 Tel: 919.789.9977  
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