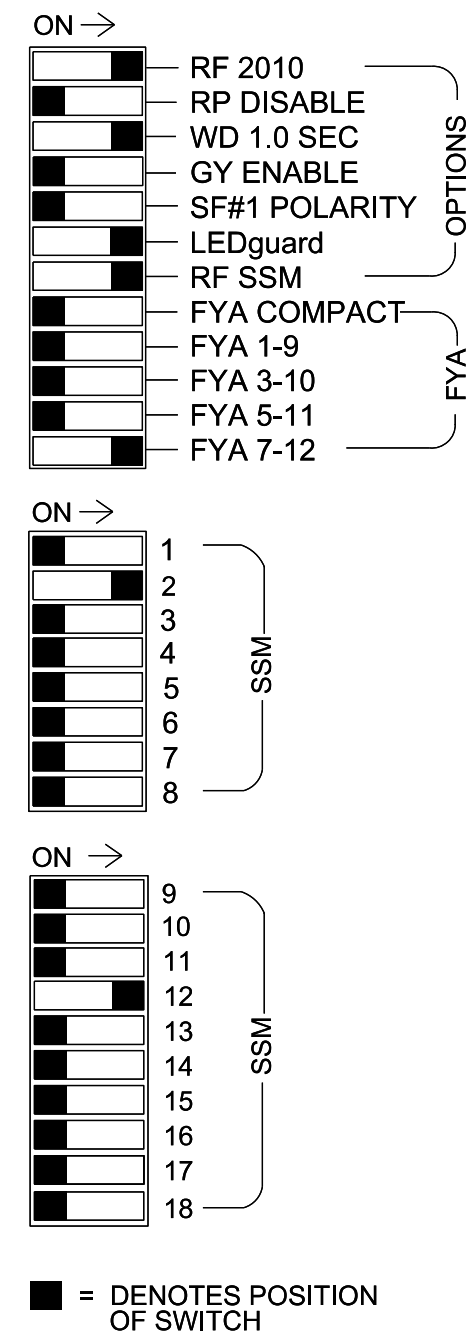
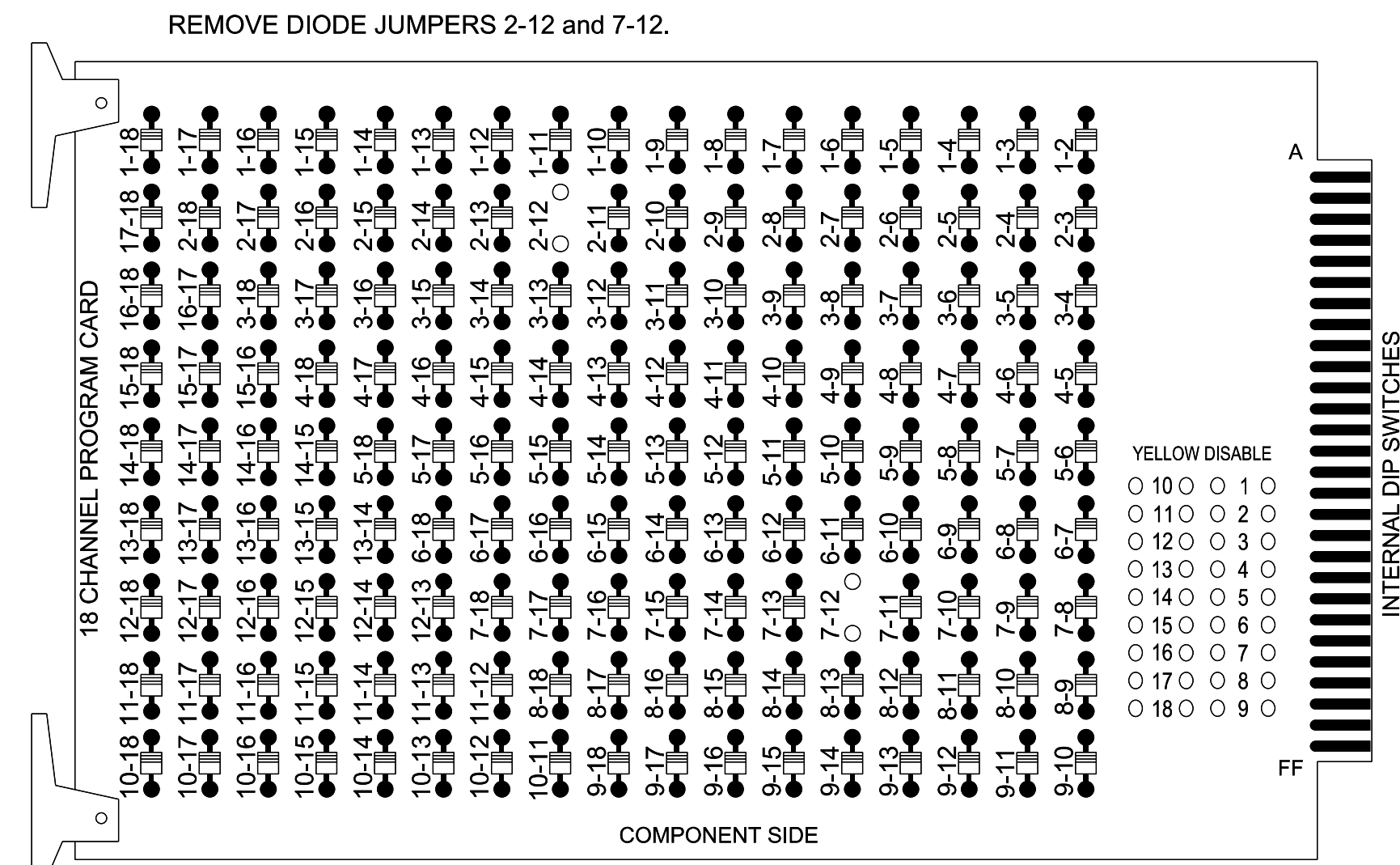


### 18 CHANNEL CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches 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. Connect serial cable from conflict monitor to comm. port 1 of 2070 controller. Ensure conflict monitor communicates with 2070.

**REMOVE JUMPERS AS SHOWN**

### 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 plan.
2. Program controller to start up in phase 2 Green No Walk.
3. If this signal will be managed by an ATMS software, enable controller and detector logging for all 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, S10, AUX S5  
 Phases Used.....2,7  
 Overlap "1".....NOT USED  
 Overlap "2".....NOT USED  
 Overlap "3".....NOT USED  
 Overlap "4".....\*

\*See overlap programming detail on sheet 2.

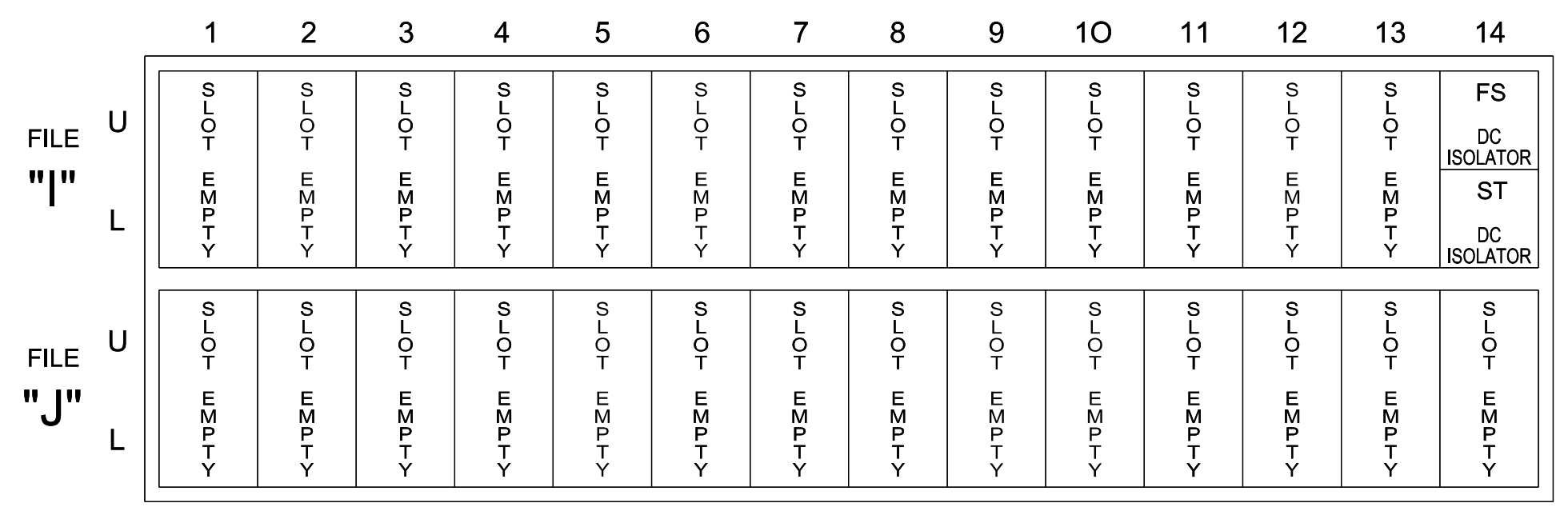
### SIGNAL HEAD HOOK-UP CHART

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	PED	3	4	PED	7	6	PED	7	8	PED	OL1	OL2	SPARE	OL3	OL4	SPARE
SIGNAL HEAD NO.	NU	21,22	NU	NU	NU	NU	NU	NU	NU	71,72	*	NU	NU	NU	NU	NU	71,72	NU
RED		128																
YELLOW		129								*								
GREEN		130																
RED ARROW																		A101
YELLOW ARROW																		A102
FLASHING YELLOW ARROW																		A103
GREEN ARROW										124								

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)



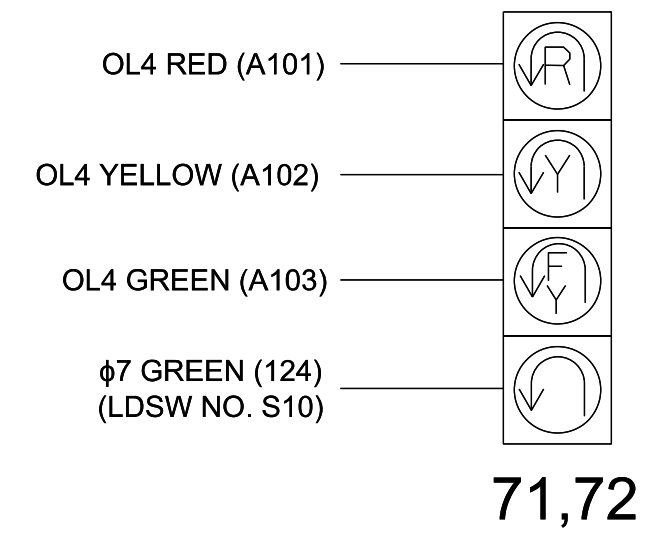
EX.: 1A, 2A, ETC. = LOOP NO.'S  
 FS = FLASH SENSE  
 ST = STOP TIME

### SPECIAL DETECTOR NOTE

Install a 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.

### FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



### MAXTIME OVERLAP PROGRAMMING DETAIL

Front Panel  
 Main Menu >Controller >Overlap >Overlap Parameters/Overlap Timings

Web Interface  
 Home >Controller >Overlap Configuration >Overlaps

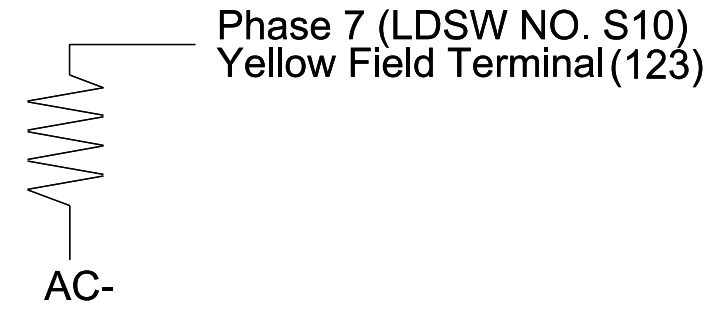
Overlap Plan 1

Overlap	4
Type	FYA 4 - Section
Included Phases	2
Modifier Phases	7
Trail Green	0
Trail Yellow	0.0
Trail Red	0.0

### LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown)

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



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 11-1462T2  
 DESIGNED: May 2023  
 SEALED: 5/24/2023  
 REVISED: N/A

Temporary Installation - Electrical Detail 1 of 1  
 (Phases 11, 12 & 13)

ELECTRICAL AND PROGRAMMING DETAILS FOR:

US 421-NC 16 at  
 SR 1322 (Winkler Mill Rd)/  
 Stonecrest Oaks Pkwy  
 West U-Turn

Division 11 Wilkes County Wilkesboro

PLAN DATE: May 2023 REVIEWED BY: J. Ma  
 PREPARED BY: M.L. Stygles REVIEWED BY: S.R. Chiluka

REVISIONS: INIT. DATE

750 N. Greenfield Pkwy, Garner, NC 27529

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL  
 NORTH CAROLINA PROFESSIONAL ENGINEER  
 SEAL 046057  
 MATTHEW L. STYGLES

Documented by: [Signature] 5/24/2023  
 DATE

SIG. INVENTORY NO. 11-1462T2

5/23/2019 3:15:01 PM  
 \*\*\*BDD: \*\*\*CJ: \*\*\*G: \*\*\*H: \*\*\*I: \*\*\*J: \*\*\*K: \*\*\*L: \*\*\*M: \*\*\*N: \*\*\*O: \*\*\*P: \*\*\*Q: \*\*\*R: \*\*\*S: \*\*\*T: \*\*\*U: \*\*\*V: \*\*\*W: \*\*\*X: \*\*\*Y: \*\*\*Z: \*\*\*AA: \*\*\*AB: \*\*\*AC: \*\*\*AD: \*\*\*AE: \*\*\*AF: \*\*\*AG: \*\*\*AH: \*\*\*AI: \*\*\*AJ: \*\*\*AK: \*\*\*AL: \*\*\*AM: \*\*\*AN: \*\*\*AO: \*\*\*AP: \*\*\*AQ: \*\*\*AR: \*\*\*AS: \*\*\*AT: \*\*\*AU: \*\*\*AV: \*\*\*AW: \*\*\*AX: \*\*\*AY: \*\*\*AZ: \*\*\*BA: \*\*\*BB: \*\*\*BC: \*\*\*BD: \*\*\*BE: \*\*\*BF: \*\*\*BG: \*\*\*BH: \*\*\*BI: \*\*\*BJ: \*\*\*BK: \*\*\*BL: \*\*\*BM: \*\*\*BN: \*\*\*BO: \*\*\*BP: \*\*\*BQ: \*\*\*BR: \*\*\*BS: \*\*\*BT: \*\*\*BU: \*\*\*BV: \*\*\*BW: \*\*\*BX: \*\*\*BY: \*\*\*BZ: \*\*\*CA: \*\*\*CB: \*\*\*CC: \*\*\*CD: \*\*\*CE: \*\*\*CF: \*\*\*CG: \*\*\*CH: \*\*\*CI: \*\*\*CJ: \*\*\*CK: \*\*\*CL: \*\*\*CM: \*\*\*CN: \*\*\*CO: \*\*\*CP: \*\*\*CQ: \*\*\*CR: \*\*\*CS: \*\*\*CT: \*\*\*CU: \*\*\*CV: \*\*\*CW: \*\*\*CX: \*\*\*CY: \*\*\*CZ: \*\*\*DA: 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