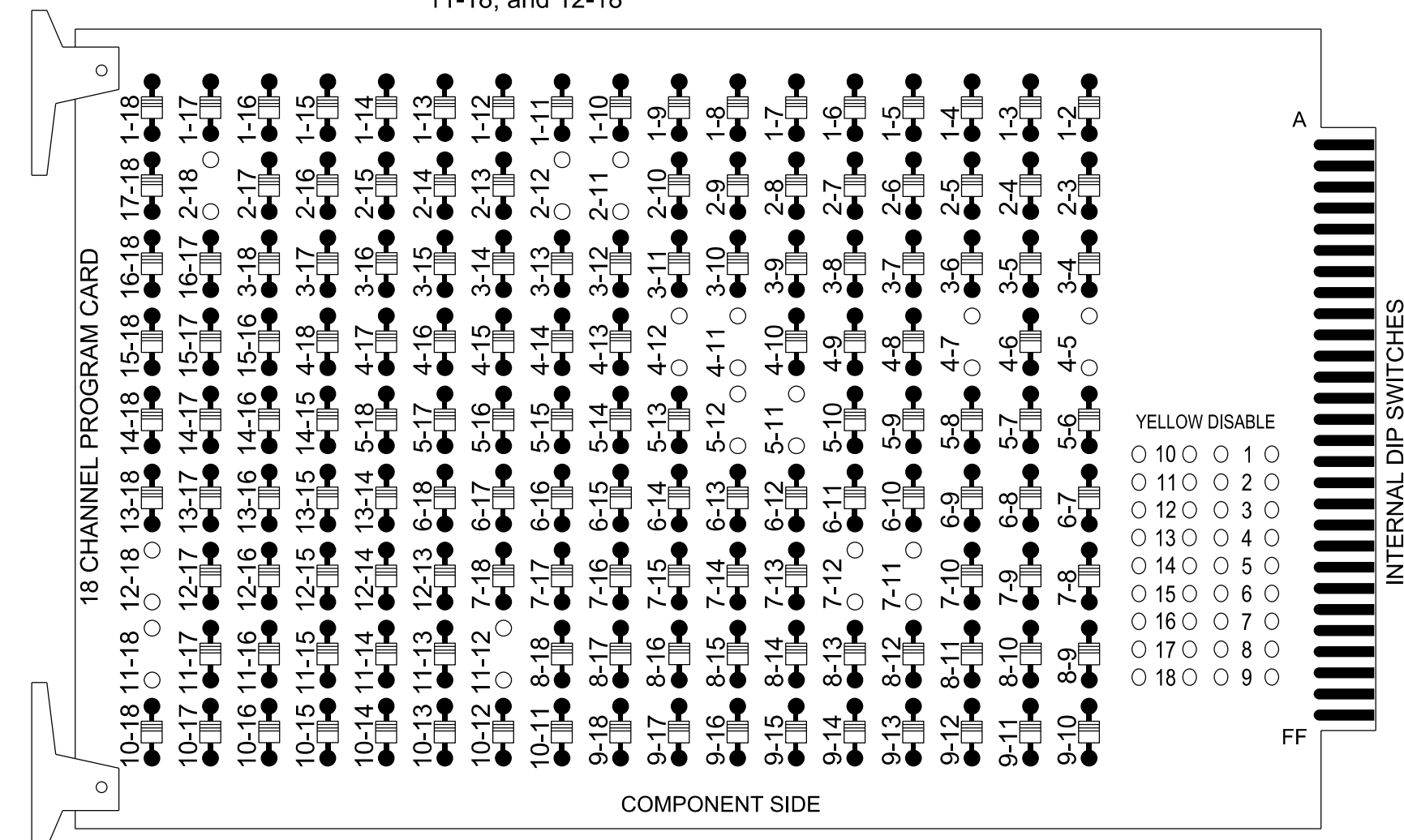


### 18 CHANNEL CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

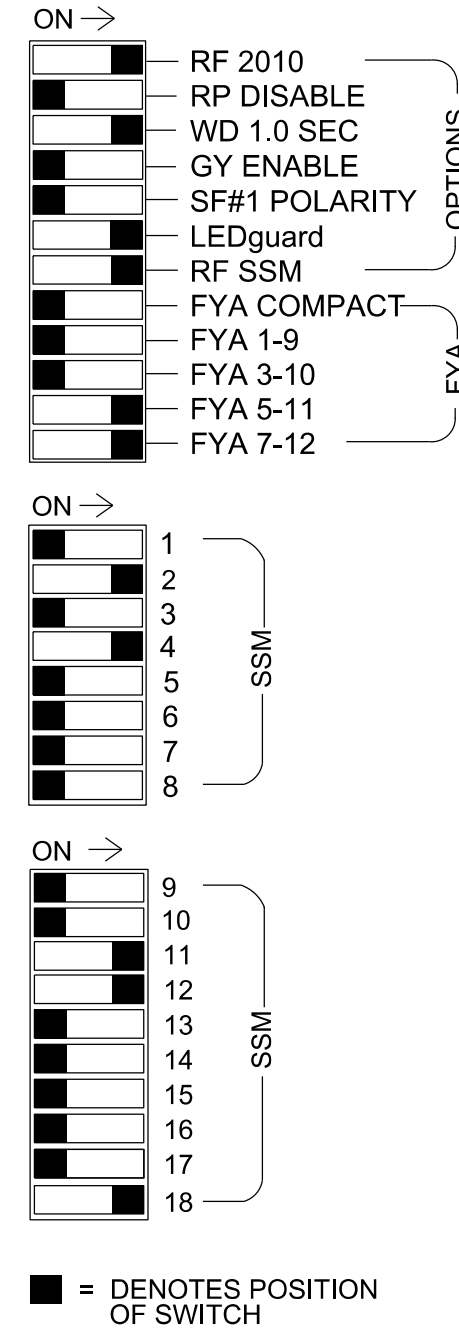
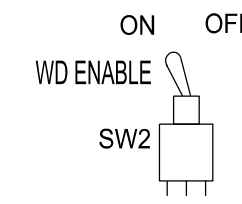
REMOVE DIODE JUMPERS 2-11, 2-12, 2-18, 4-5, 4-7, 4-11, 4-12, 5-11, 5-12, 7-11, 7-12, 11-12, 11-18, and 12-18



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 the 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 plan.
- Program phases 4 and 7 for Dual Entry.
- Program controller to start up in phase 2 Green No Walk.
- 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 Wilkesboro Closed Loop System.

### 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,S10,AUX S4,AUX S5,  
 AUX S6  
 Phases Used.....2, 4, 7  
 Overlap "1".....NOT USED  
 Overlap "2".....NOT USED  
 Overlap "3".....\*  
 Overlap "4".....\*  
 Overlap "6".....\*  
 Overlap "7".....\*

\*See overlap programming detail on sheet 2.

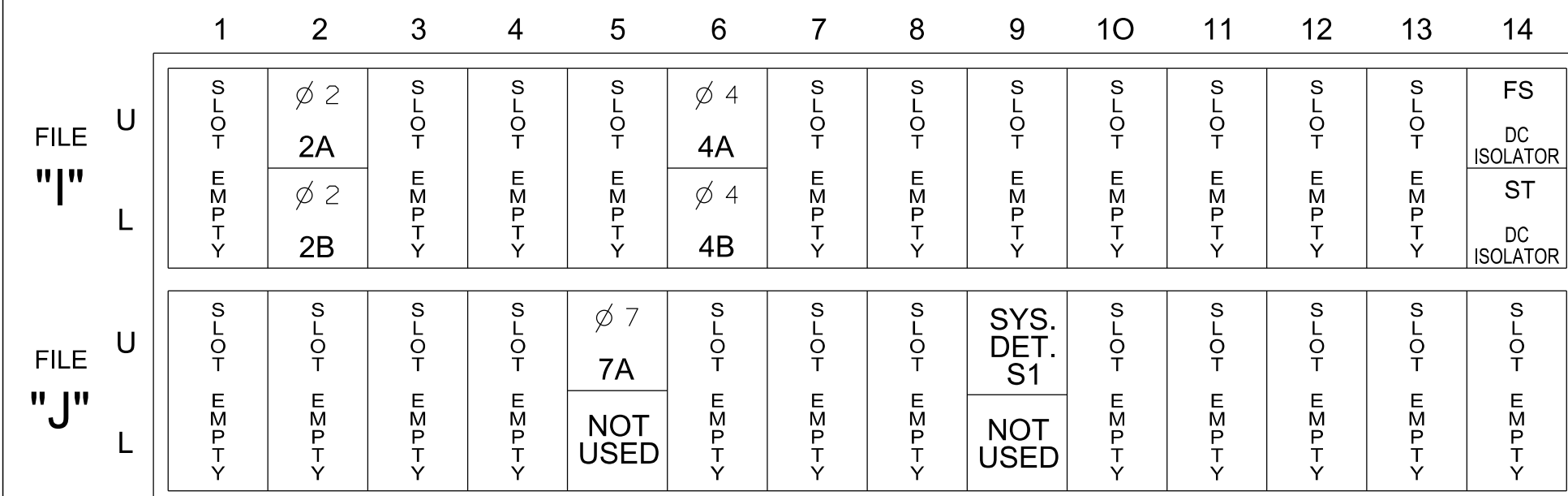
### SIGNAL HEAD HOOK-UP CHART

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	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
SIGNAL HEAD NO.	NU	21,22	NU	NU	41,42	NU	72*	NU	NU	71*	NU	NU	NU	NU	NU	72*	71*	23*
RED		128			101													A104
YELLOW		129					*			*								
GREEN																		
RED ARROW																		A114 A101
YELLOW ARROW					102													A115 A102 A105
FLASHING YELLOW ARROW																		A116 A103 A106
GREEN ARROW		130			103		133			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

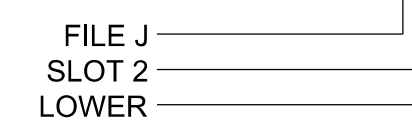
FS = FLASH SENSE  
 ST = STOP TIME

### INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT POINT	DETECTOR NO.	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	QUEUE	CALL	DELAY DURING GREEN
2A	TB2-5,6	I2U	39	1	2	2			X	X		X	
2B	TB2-7,8	I2L	43	5	3	2			X	X		X	
4A	TB4-9,10	I6U	41	3	8	4	15		X			X	
4B	TB4-11,12	I6L	45	7	9	4			X			X	
7A	TB5-5,6	J5U	57	19	21	7	15		X			X	
*S1	TB7-9,10	J9U	59	21	27	SYS			X			X	

\*System detector only. Remove any assigned vehicle phase.

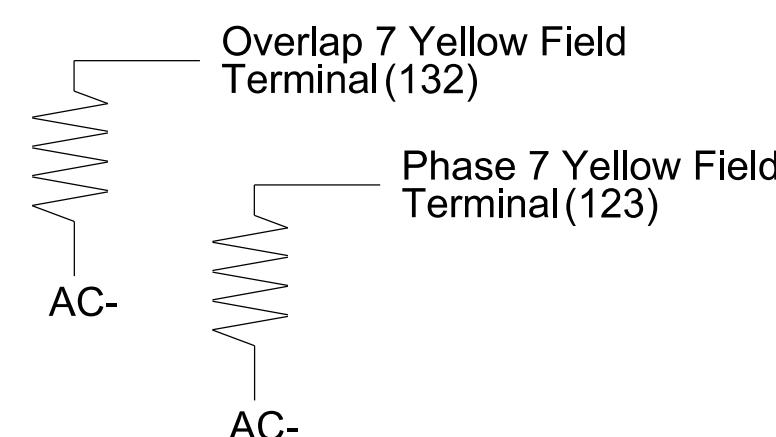
INPUT FILE POSITION LEGEND: J2L



### LOAD RESISTOR INSTALLATION DETAIL

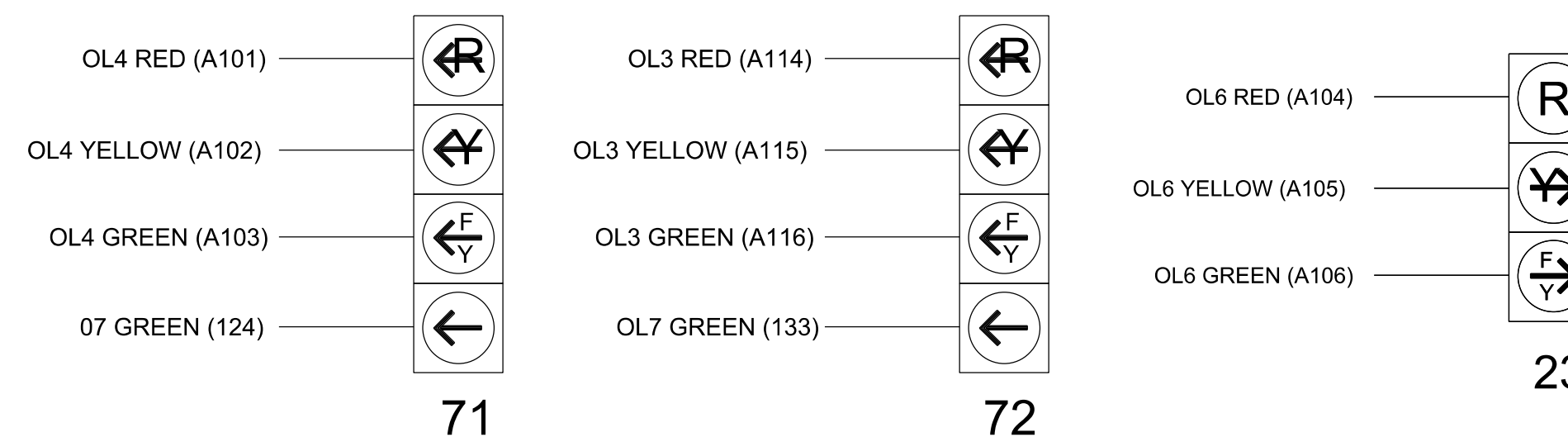
(install resistors as shown)

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



### FYA SIGNAL WIRING DETAIL

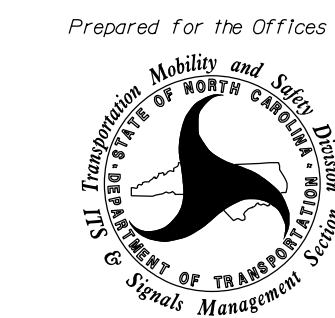
(wire signal heads as shown)



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 11-1465  
 DESIGNED: May 2023  
 SEALED: 5/24/2023  
 REVISED: N/A

Electrical Detail - Sheet 1 of 2

ELECTRICAL AND PROGRAMMING DETAILS FOR:



750 N. Greenfield Pkwy, Garner, NC 27529

US 421 at Stonecrest Oaks Pkwy

Division 11 Wilkes County Wilkesboro

PLAN DATE: MaY 2023 REVIEWED BY: J. Ma

PREPARED BY: M.L. Styles REVIEWED BY: S.R. Chiluka

REVISIONS	INIT.	DATE



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 046057

Matthew L. Styles

5/24/2023

DATE

SIG. INVENTORY NO. 11-1465

5/23/2019 3:15:01 PM  
 \*\*\*BDDP \*\*\*PCJ \*\*\*0161 gn38621.03 NDDOT U-5312 Wilkes Co NCDOT Traffic Signal Design P:\onsm5312\_11-XXXX\_Sig.9.16.Stonecrest Pkwy.dgn  
 sch11.luk