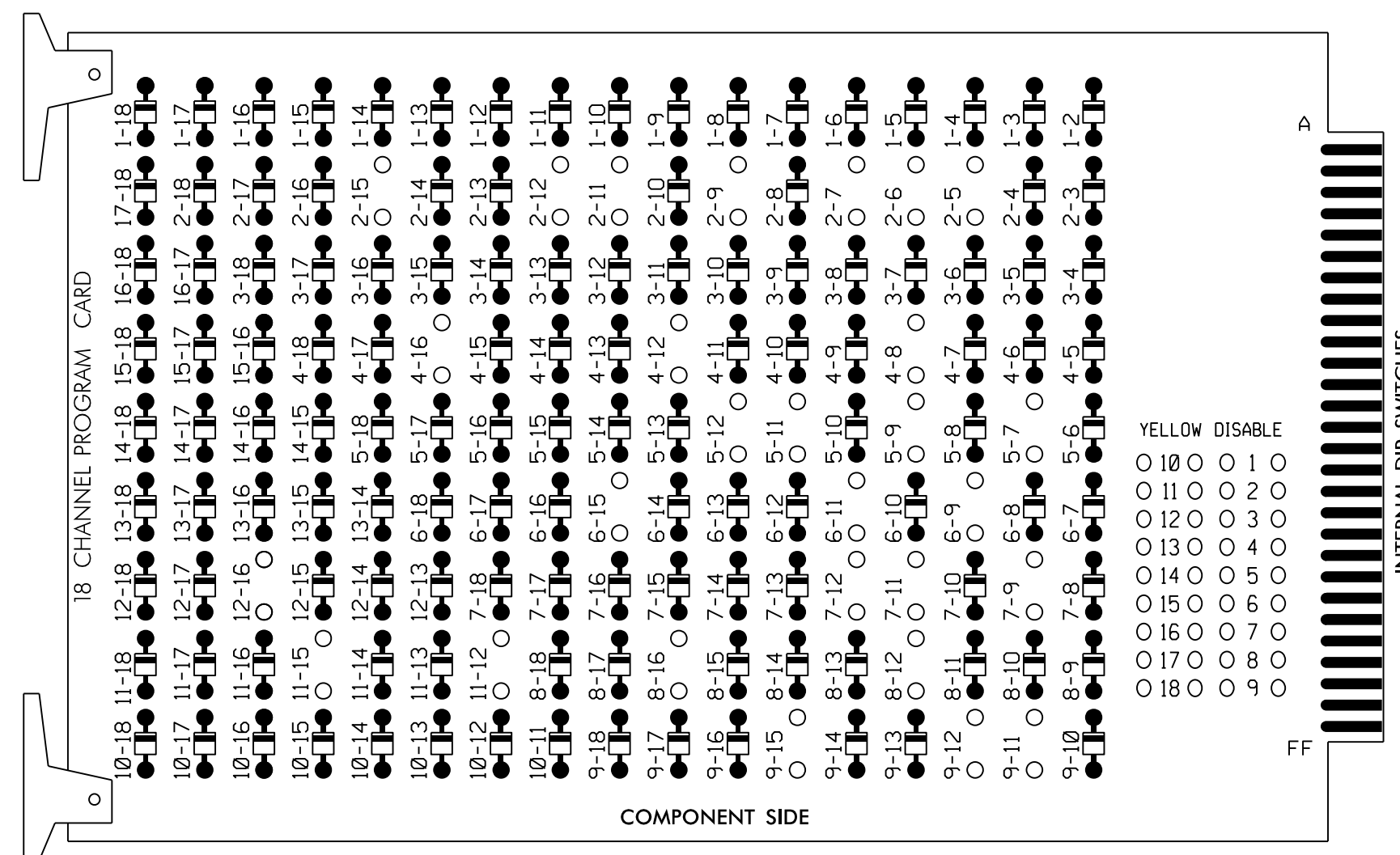


EDI MODEL 2018ECL-NC CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 2-5, 2-6, 2-7, 2-9, 2-11, 2-12, 2-15, 4-8, 4-12, 4-16, 5-7, 5-9, 5-11, 5-12, 6-9, 6-11, 6-15, 7-9, 7-11, 7-12, 8-12, 8-16, 9-11, 9-12, 9-15, 11-12, 11-15, and 12-16.



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.

■ = DENOTES POSITION OF SWITCH

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 phases 4 and 8 for Dual Entry.
- Program controller to start up in phase 2 Green and 6 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 Signal System D06-24 Lumberton, NC 41-72 (Second St.)

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.....S2,S5,S7,S8,S9,S10,S11,S12,
 AUX S1,AUX S4,AUX S5
 PHASES USED.....2,4,5,6,6PED,8,8PED
 OVERLAP "A".....*
 OVERLAP "B".....NOT USED
 OVERLAP "C".....*
 OVERLAP "D".....*
 OVERLAP "G".....*

* See overlap programming detail on sheet 2

SIGNAL HEAD HOOK-UP CHART

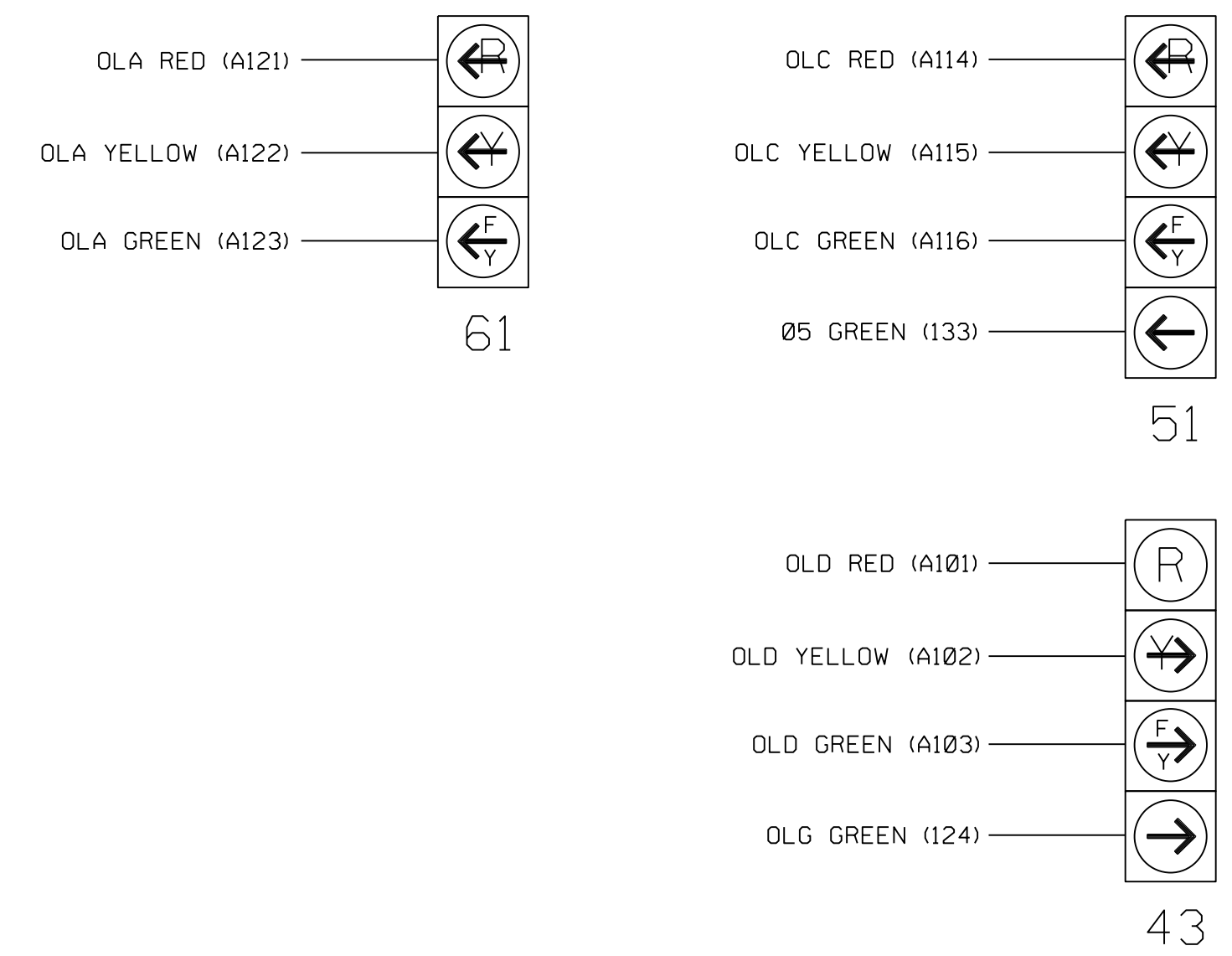
LOAD SWITCH NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	AUX S1	AUX S2	AUX S3	AUX S4	AUX S5	AUX S6		
CMU CHANNEL NO.	1	2	13	3	4	14	5	6	15	7	8	16	9	10	17	11	12	18		
PHASE	1	2	2 PED	3	4	4 PED	5	6	6 PED	OLG	8	8 PED	OLA	OLB	SPARE	OLC	OLD	SPARE		
SIGNAL HEAD NO.	NU	21,22	NU	NU	41,42	NU	51	62,63	P61, P62	43	81,82	P81, P82	61	NU	NU	51	43	NU		
RED		128			101			134			107							A101		
YELLOW		129			102		*	135		*	108									
GREEN		130			103			136			109									
RED ARROW																		A121	A114	
YELLOW ARROW																		A122	A115	A102
FLASHING YELLOW ARROW																		A123	A116	A103
GREEN ARROW								133			124									
Hand										119										
Walking											112									

NU = Not Used

- * Denotes install load resistor. See load resistor installation detail this sheet.
- ★ See pictorial of head wiring in detail below.

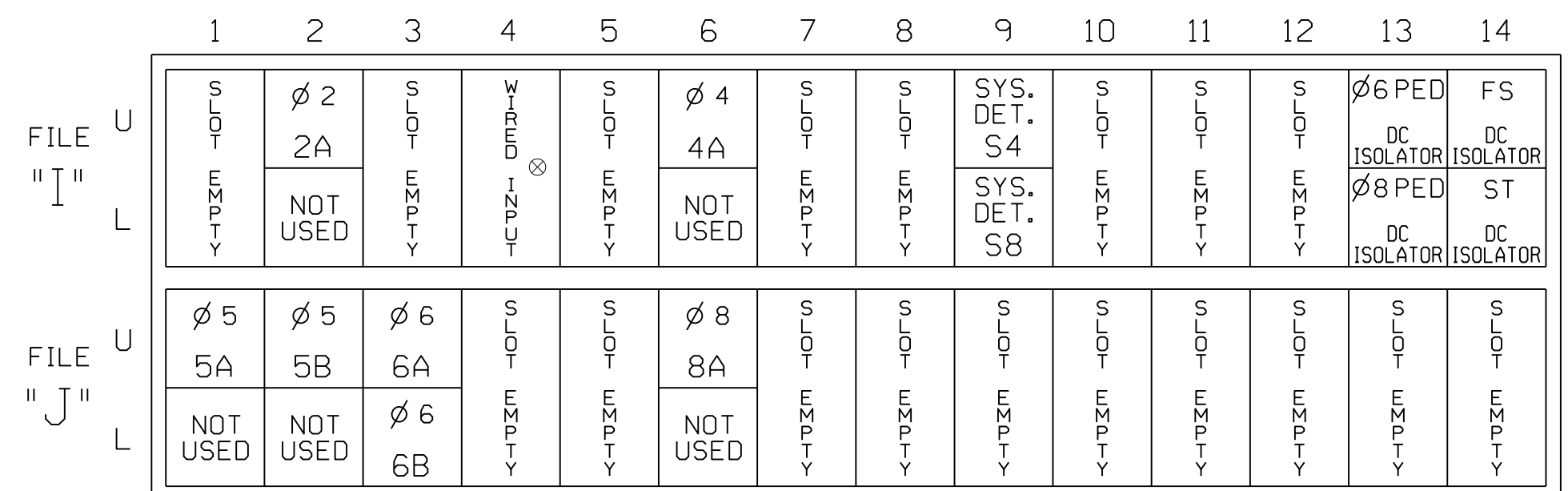
FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



INPUT FILE POSITION LAYOUT

(front view)



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

FS = FLASH SENSE
ST = STOP TIME

⊗ Wired Input - Do not populate slot with detector card

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
2A	TB2-5,6	I2U	39	2	2	YES				N
4A	TB4-9,10	I6U	41	4	4	YES		3		N
5A ¹	TB3-1,2	J1U	55	5 ★	5	YES		15		N
		I4U	47	22 ★	2	YES		3		N
5B	TB3-5,6	J2U	40	6	5	YES		15		N
6A	TB3-9,10	J3U	64	36	6	YES				N
6B	TB3-11,12	J3L	77	46	6	YES				N
8A	TB5-9,10	J6U	42	8	8	YES		10		N
* S4	TB6-9,10	I9U	60	11	SYS	NO				N
* S8	TB6-11,12	I9L	62	13	SYS	NO				N
PED PUSH BUTTONS										
P61,P62	TB8-7,9	I13U	68	PED 6	6 PED					
P81,P82	TB8-8,9	I13L	70	PED 8	8 PED					

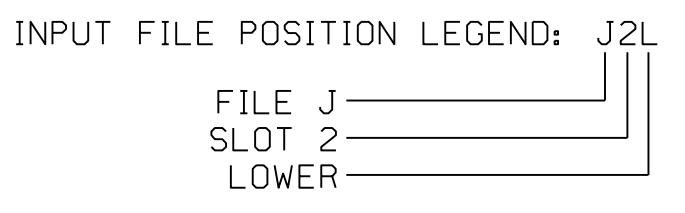
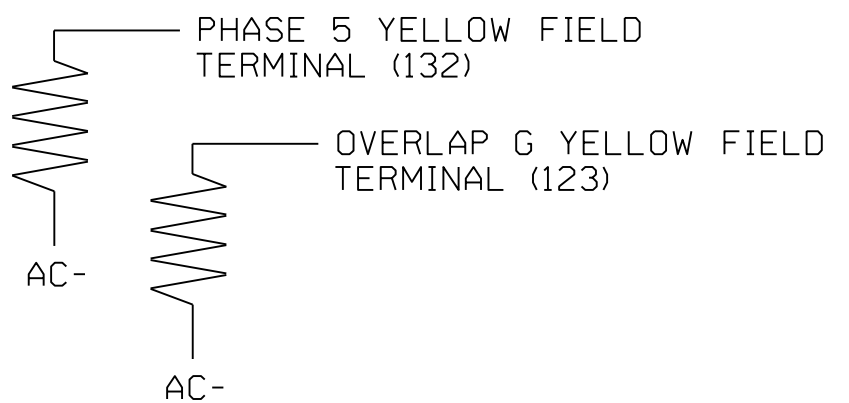
NOTE:
INSTALL DC ISOLATORS IN INPUT FILE SLOT 113.

- * System detector only. Remove any assigned vehicle phase.
- ¹Add jumper from J1-W to I4-W. on rear of input file.
- ★ For the detectors to work as shown on the signal design plan, see the Vehicle Detector Setup Programming Detail for Alternate Phasing on sheets 2 and 3.

LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown)

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



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 06-0193
 DESIGNED: JULY 2022
 SEALED: FEBRUARY 2023
 REVISED: N/A

Final Design
Electrical Detail - Sheet 1 of 3

ELECTRICAL AND PROGRAMMING DETAILS FOR:
 Prepared for the Offices of:

 750 N. Greenfield Pkwy, Garner, NC 27529

NC 41-72 (West 2nd Street)
 at
 SR 1536 (North Water Street)
 Division 6 Robeson County Lumberton
 PLAN DATE: FEBRUARY 2023 REVIEWED BY: R M Muncey
 PREPARED BY: D. Waller REVIEWED BY:

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

 REGINA M. MUNCY
 2/2/2023
 SIGNATURE DATE
 SIG. INVENTORY NO. 06-0193