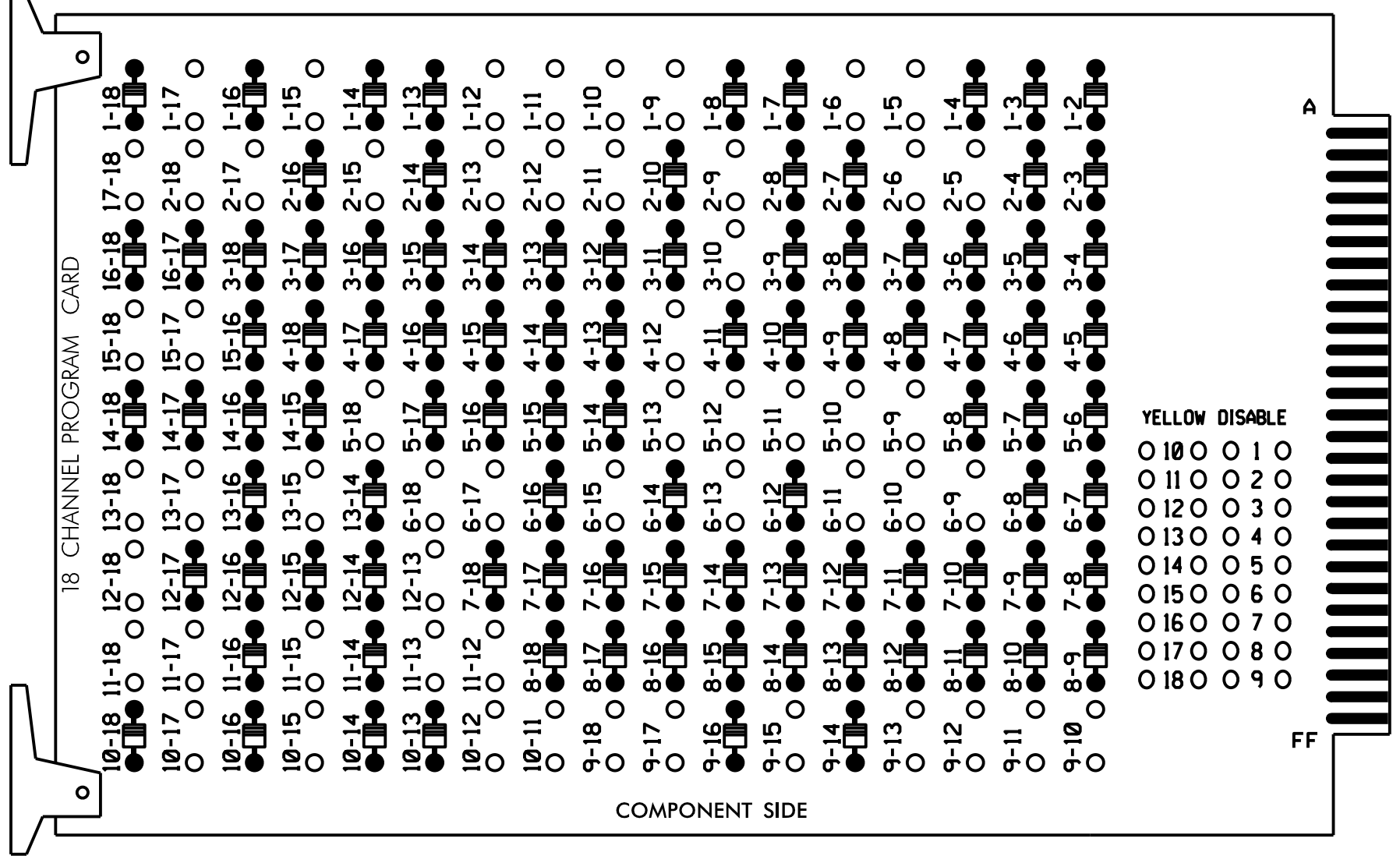


### 18 CHANNEL IP CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)  
 REMOVE DIODE JUMPERS 1-5, 1-6, 1-9, 1-10, 1-11, 1-12, 1-15, 1-17, 2-5, 2-6, 2-9, 2-11, 2-12, 2-13, 2-15, 2-17, 2-18, 3-10, 4-12, 5-9, 5-10, 5-11, 5-12, 5-13, 5-18, 6-9, 6-10, 6-11, 6-13, 6-15, 6-17, 6-18, 9-10, 9-11, 9-12, 9-13, 9-15, 9-17, 9-18, 10-11, 10-12, 10-15, 10-17, 11-12, 11-13, 11-15, 11-17, 11-18 12-13, 12-18, 13-15, 13-17, 13-18, 15-17, 15-18 and 17-18.



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

### NOTES

1. To prevent "flash-conflict" problems, insert red flash program blocks for all vehicle load switches in the output file. The installer shall verify that signal heads flash in accordance with the Signal Plans.
2. Enable Simultaneous Gap-Out for all phases.
3. Program phases 2 and 6 as First Phases.
4. Disable all Phases for Yellow Flash and Startup in Green.
5. Program overlap 1, 2, and 5 as Wag Overlaps.
6. The cabinet and controller are part of the Jacksonville Signal System. Asset #0986

### EQUIPMENT INFORMATION

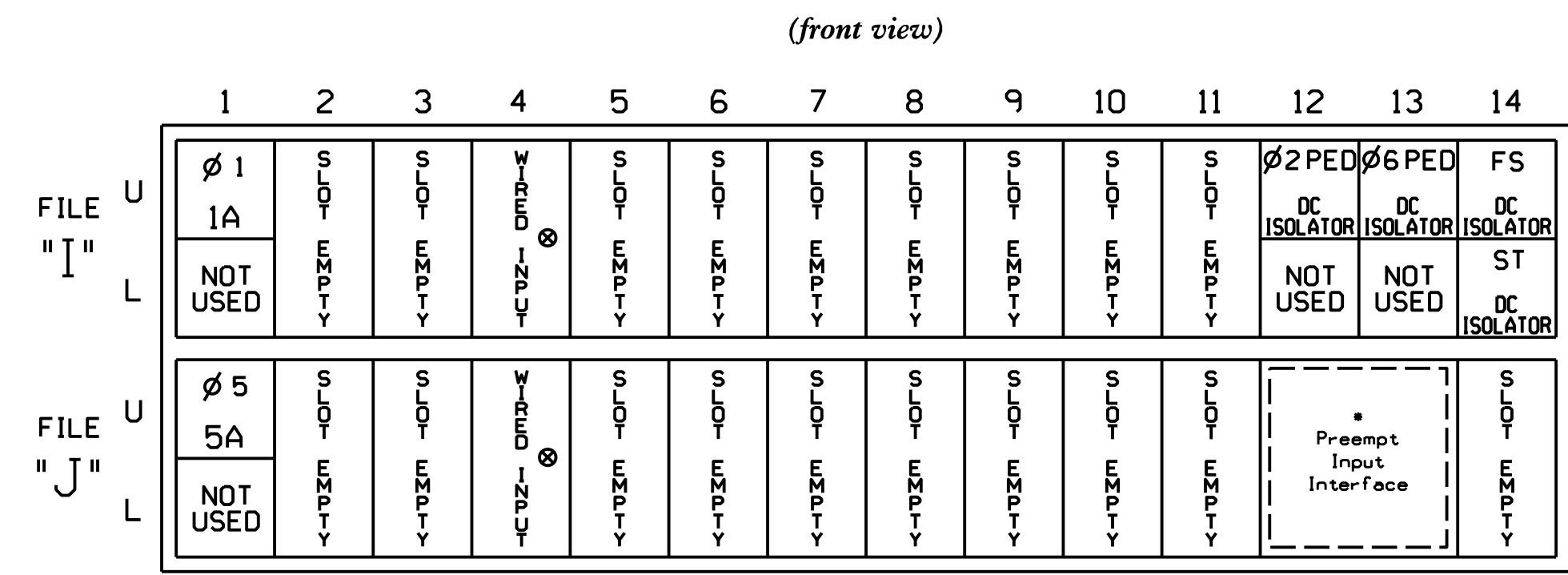
CONTROLLER.....2070  
 CABINET.....332 W/ AUX  
 SOFTWARE.....ECONOLITE OASIS  
 CABINET MOUNT.....BASE  
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE LOAD SWITCHES USED.....S1,S2,S3,S4,S5,S7,S8,S9.  
 AUX S1,AUX S2,AUX S3,  
 AUX S4,AUX S5,AUX S6  
 PHASES USED.....1,2,2PED,3,4,5,6,6PED  
 OVERLAP "A".....1+2  
 OVERLAP "B".....1+3  
 OVERLAP "C".....5+6  
 OVERLAP "D".....4+5  
 OVERLAP "E".....6  
 OVERLAP "F".....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				
CMJ 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	OLE	OLC	OLD	OLF				
SIGNAL HEAD NO.	11	21,22	P21, P22	31	32	33,35	41	42,44	NU	51	61,62	P61, P62	NU	NU	NU	11	34	63	51	43	23	
RED		128		116	116	101	101			134						A124	A111		A101	A104		
YELLOW	*	129		117	117	102	102		*	135												
GREEN		130		118	118	103	103			136												
RED ARROW				116												A121			A114			
YELLOW ARROW				117												A122	A125	A112	A115	A102	A105	
FLASHING YELLOW ARROW																A123	A126	A113	A116	A103	A106	
GREEN ARROW	127			118	118	103			133													
Hand icon				113									119									
Person icon				115																		

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

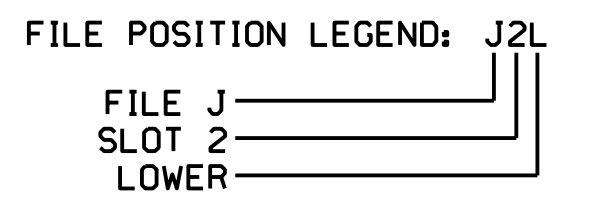


EX.: 1A, 2A, ETC. = LOOP NO.'S  
 FS = FLASH SENSE  
 ST = STOP TIME  
 PRE = PREEMPT

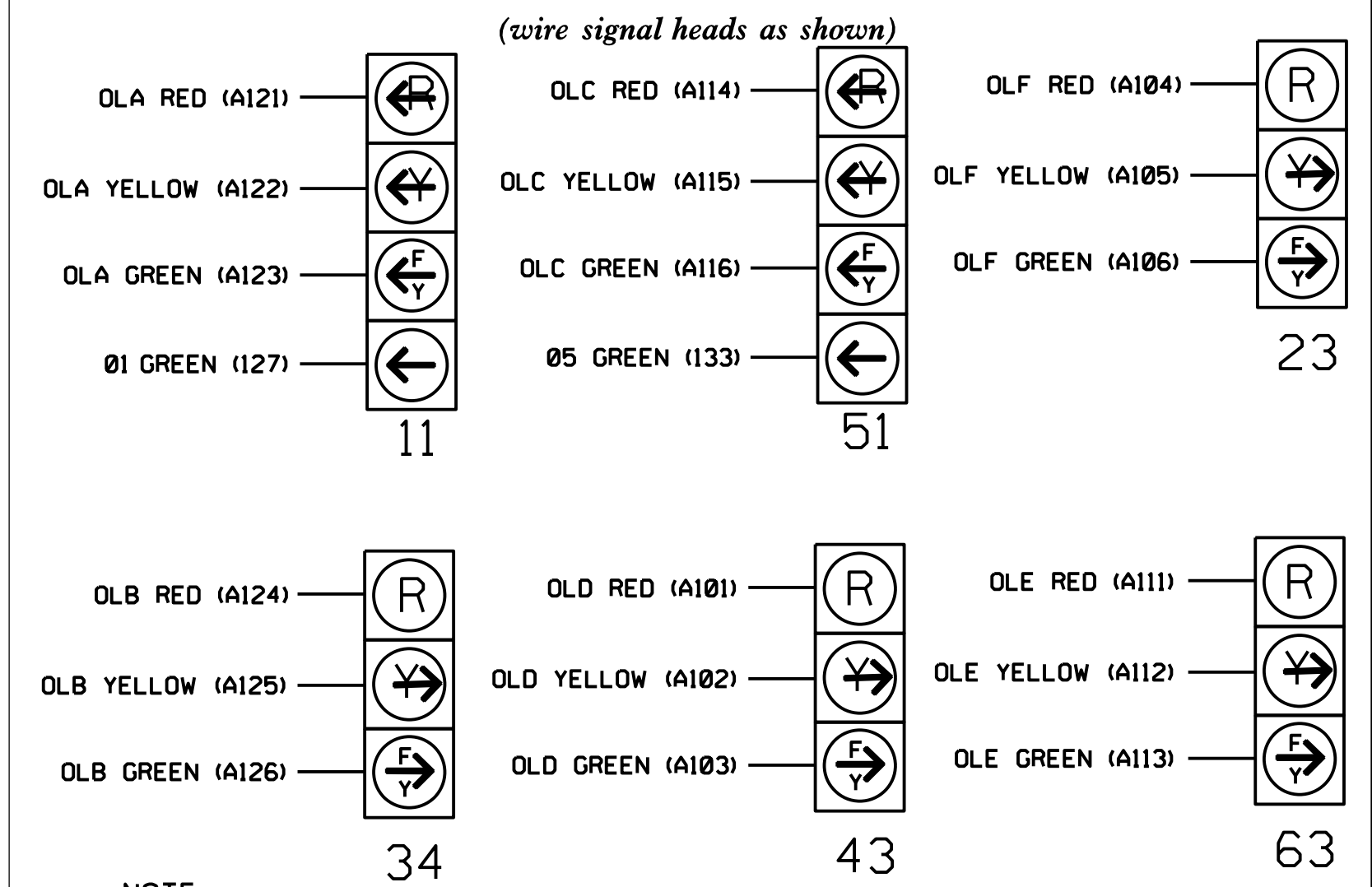
### INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT ASSIGNMENT NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND	FULL TIME DELAY	STRETCH TIME	DELAY TIME
1A <sup>1</sup>	TB2-1,2	I1U	56	18	1	1	Y	Y	-	-	15
	-	J4U	48	10★	26	6	Y	Y	-	-	-
	-	I1U	56	18★	51	1	Y	Y	-	-	-
5A <sup>2</sup>	TB3-1,2	J1U	55	17	5	5	Y	Y	-	-	15
	-	I4U	47	9★	22	2	Y	Y	-	-	-
	-	J1U	55	17★	55	5	Y	Y	-	-	-
PED PUSH BUTTONS											
P21,P22	TB8-4,6	I12U	67	29	PED 2	2 PED					
P61,P62	TB8-7,9	I13U	68	30	PED 6	6 PED					

<sup>1</sup>Add jumper from I1-W to J4-W, on rear of input file.  
<sup>2</sup>Add jumper from J1-W to I4-W, on rear of input file.  
 ★ See Input Page Assignment programming details on sheets 3 and 4.  
 \* System detector only. Remove the vehicle phase assigned to this detector in the default programming.

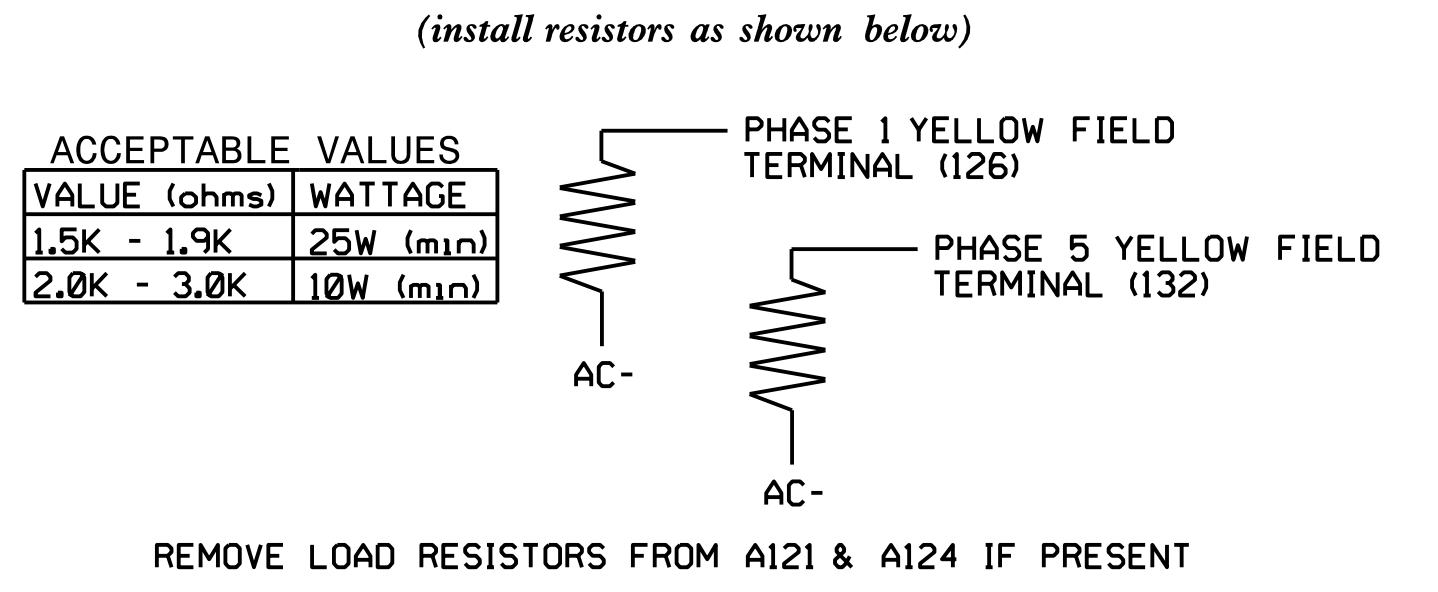


### FYA SIGNAL WIRING DETAIL



**NOTE**  
 The sequence display for signal heads 11 and 51 requires special logic programming. See sheet 6 for programming instructions.

### LOAD RESISTOR INSTALLATION DETAIL



### SPECIAL DETECTOR NOTE

Install a multizone microve detection zone 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.

For detection zones 1A and 5A the equipment placement and slots reserved for wired inputs are typical for NCDOT installation. Inputs associated with these slots are compatible with the time of day instructions located on sheets 3 and 4 of the electrical details.

### GPS PREEMPTION INSTALLATION NOTE

Install GPS preemption system. Perform installation according to manufacturer's directions and NCDOT engineer-approved mounting location to accomplish the preemption schemes shown on the signal design plans.

Project #: 230907  
**DAVENPORT**  
 HOME OFFICE:  
 119 BROOKSTOWN AVE, SUITE PH1  
 WINSTON-SALEM, NC 27101  
 336.744.6538 www.davenport.com  
 NCBELS FIRM LICENSE NO. C-2522

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 03-0896  
 DESIGNED: May 2025  
 SEALED: 7/2/2025  
 REVISED: N/A

### Electrical Details Final Design- Sheet 1 of 7

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

NC 53 (Western Boulevard) at Gateway South

Division 3 Onslow County Jacksonville

PLAN DATE: May 2025 REVIEWED BY: D. Bennett

PREPARED BY: B. Dowell REVIEWED BY:

REVISIONS

INIT. DATE

750 N. Greenfield Pkwy, Garner, NC 27529

7/2/2025

SIGNATURE DATE

SIG. INVENTORY NO. 03-0896