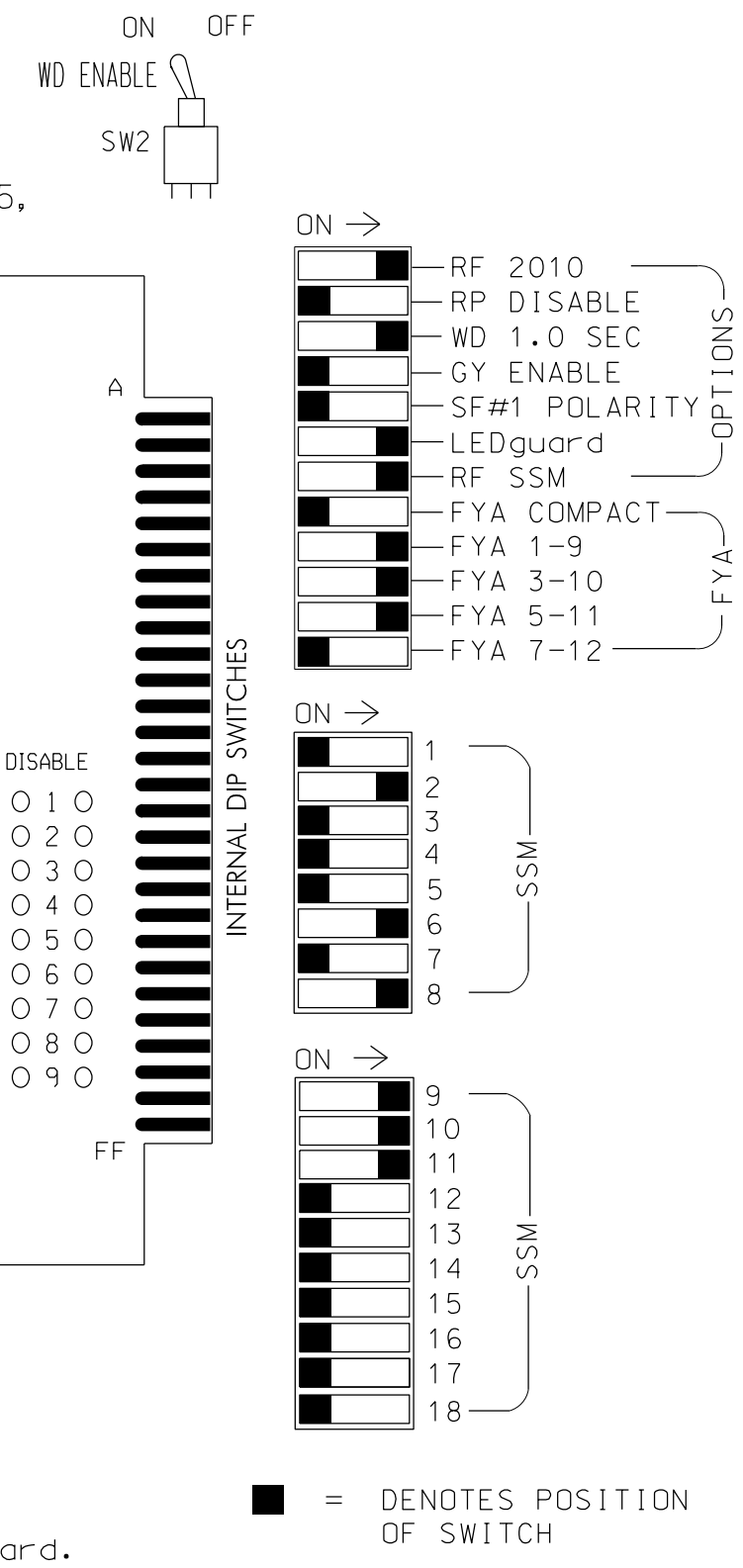
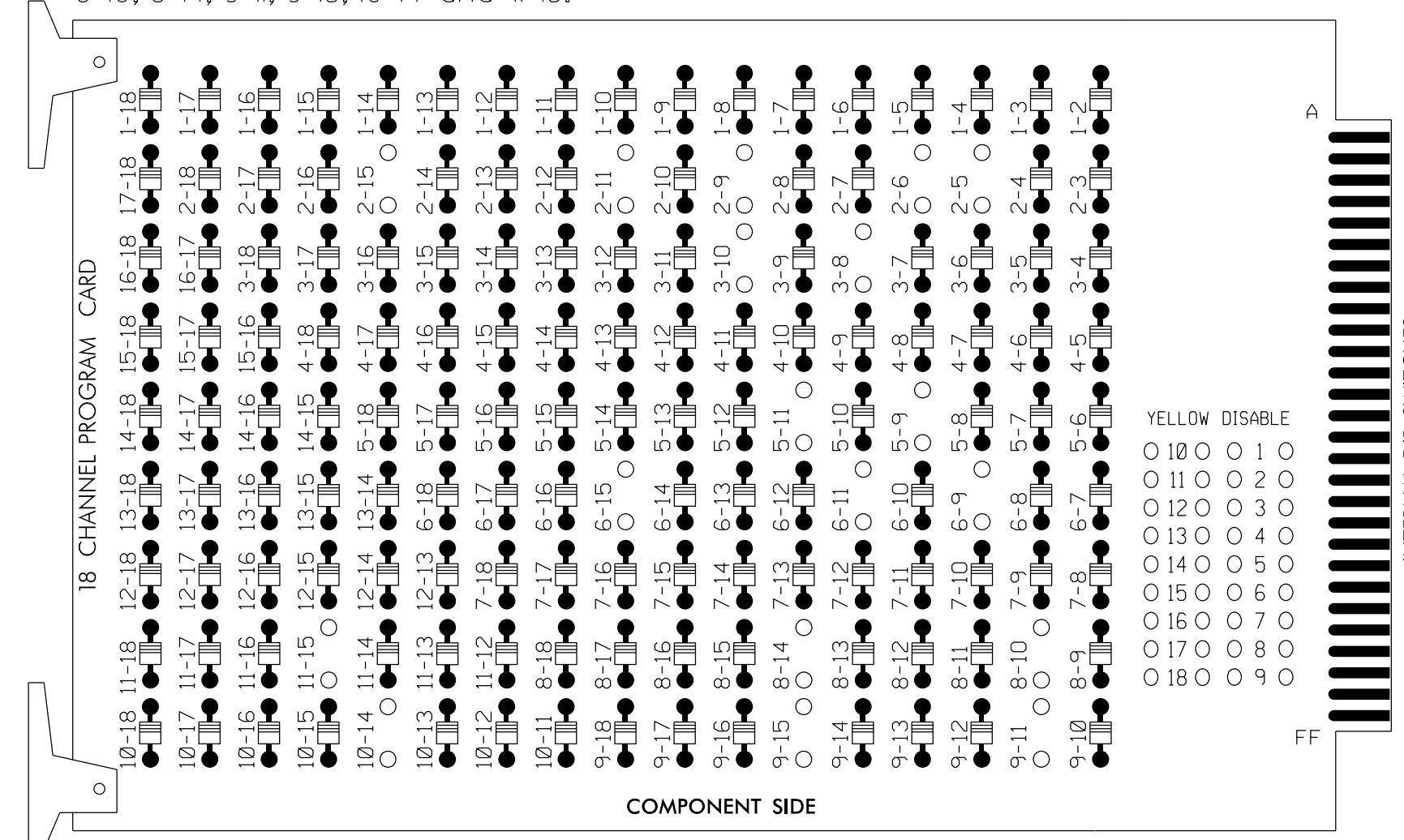


### 18 CHANNEL IP CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 2-5, 2-6, 2-9, 2-11, 2-15, 3-8, 3-10, 5-9, 5-11, 6-9, 6-11, 6-15, 8-10, 8-14, 9-11, 9-15, 10-14 and 11-15.



**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 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.
- The cabinet and controller are part of the High Point 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.....S2,S4,S6,S7,S8,S9,S11,AUX S1,AUX S2,  
 AUX S4  
 PHASES USED.....2,3,4\*,4 PED,5,6,6 PED  
 OVERLAP "A".....\*\*  
 OVERLAP "B".....\*\*  
 OVERLAP "C".....\*\*  
 OVERLAP "D".....NOT USED  
 OVERLAP "G".....\*\*

\* Phase used for timing purposes only  
 \*\* See overlap programming detail on sheet 2

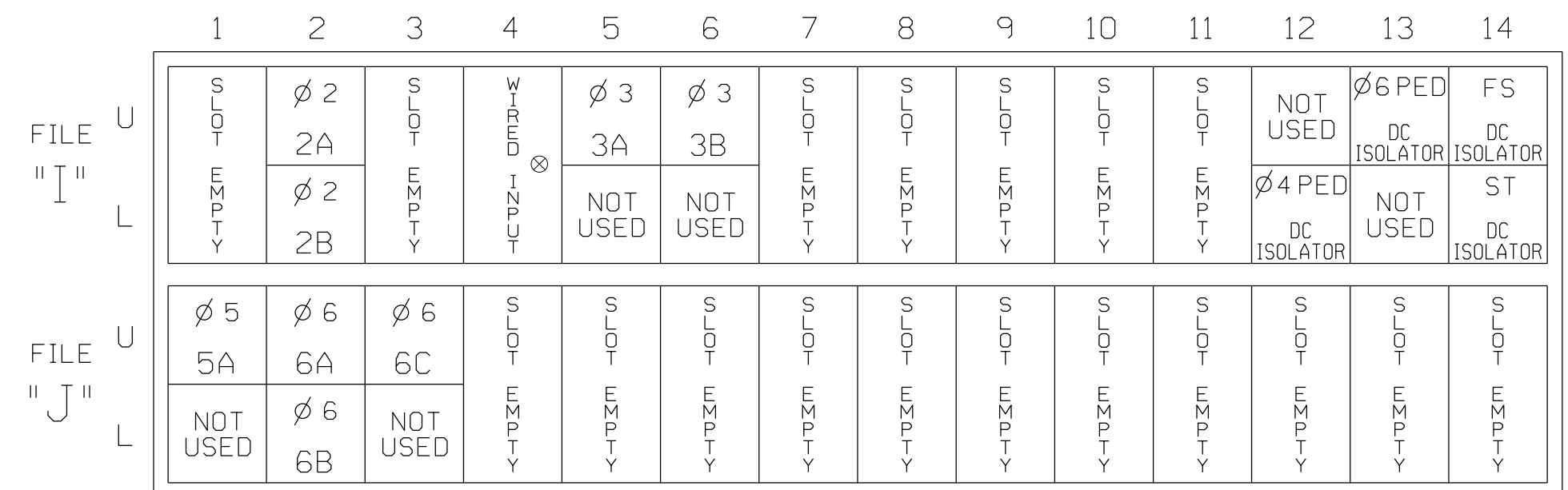
### SIGNAL HEAD HOOK-UP CHART

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	OLG	8 PED	OLA	OLB	SPARE	OLC	OLD	SPARE
SIGNAL HEAD NO.	NU	21,22,23	NU	32	NC	P41, P42	51	62,63,64	P61, P62	NU	31	NU	61	32	NU	51	NU	NU
RED	128							134		107			A124					
YELLOW	129		*				*	135										
GREEN	130							136										
RED ARROW													A121			A114		
YELLOW ARROW										108			A122	A125		A115		
FLASHING YELLOW ARROW													A123	A126		A116		
GREEN ARROW				118			133			109								
Hand icon							104		119									
Person icon							106		121									

NU = Not Used  
 NC = Not Connected  
 \* Denotes install load resistor. See load resistor installation detail this sheet.  
 ★ See pictorial of head wiring in detail below.

### INPUT FILE POSITION LAYOUT

(front view)



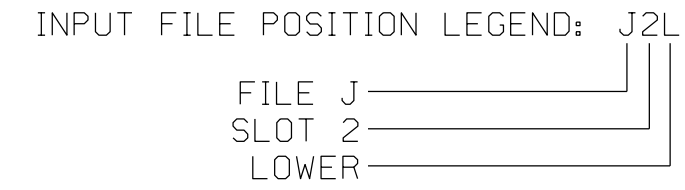
EX.: 1A, 2A, ETC. = LOOP NO.'S  
 FS = FLASH SENSE  
 ST = STOP TIME  
 ⊗ Wired Input - Do not populate slot with detector card

### 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			X	N
2B	TB2-7,8	I2L	43	2	2	YES			X	N
3A	TB4-5,6	I5U	58	3	3	YES		10.0		N
3B	TB4-9,10	I6U	41	4	3	YES		15.0		N
5A <sup>1</sup>	TB3-1,2	J1U	55	5	5	YES		15.0		N
		I4U	47	22	2	YES		3.0		G
6A	TB3-5,6	J2U	40	6	6	YES			X	N
6B	TB3-7,8	J2L	44	16	6	YES			X	N
6C	TB3-9,10	J3U	64	36	6	YES		3.0	-	G
PED PUSH BUTTONS										
P41,P42	TB8-5,6	I12L	69	PED 4	4 PED					
P61,P62	TB8-7,9	I13U	68	PED 6	6 PED					

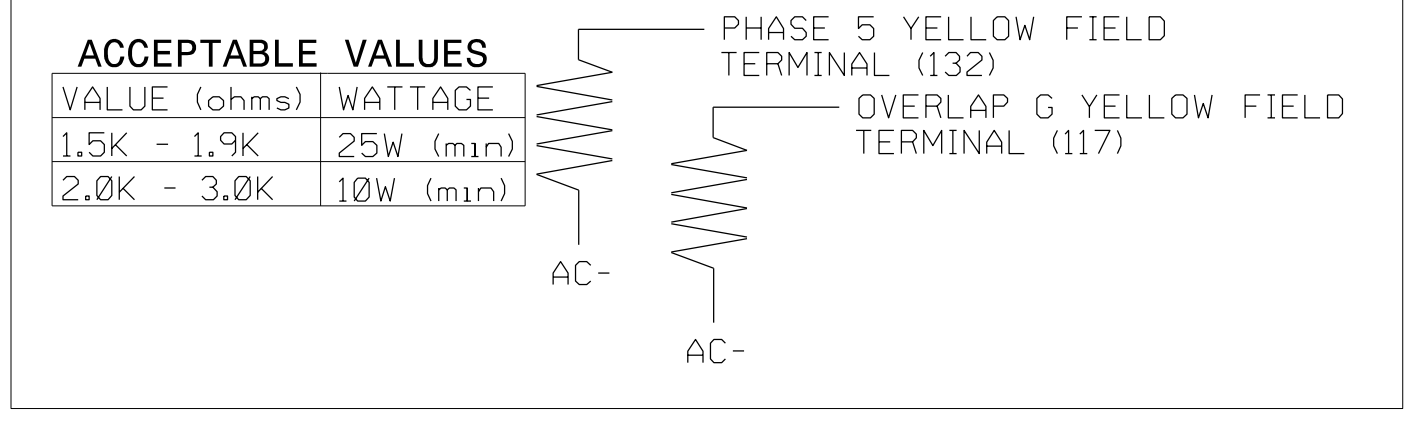
NOTE:  
 INSTALL DC ISOLATORS IN INPUT FILE SLOTS 112 AND 113.

- Add 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 sheet 2.



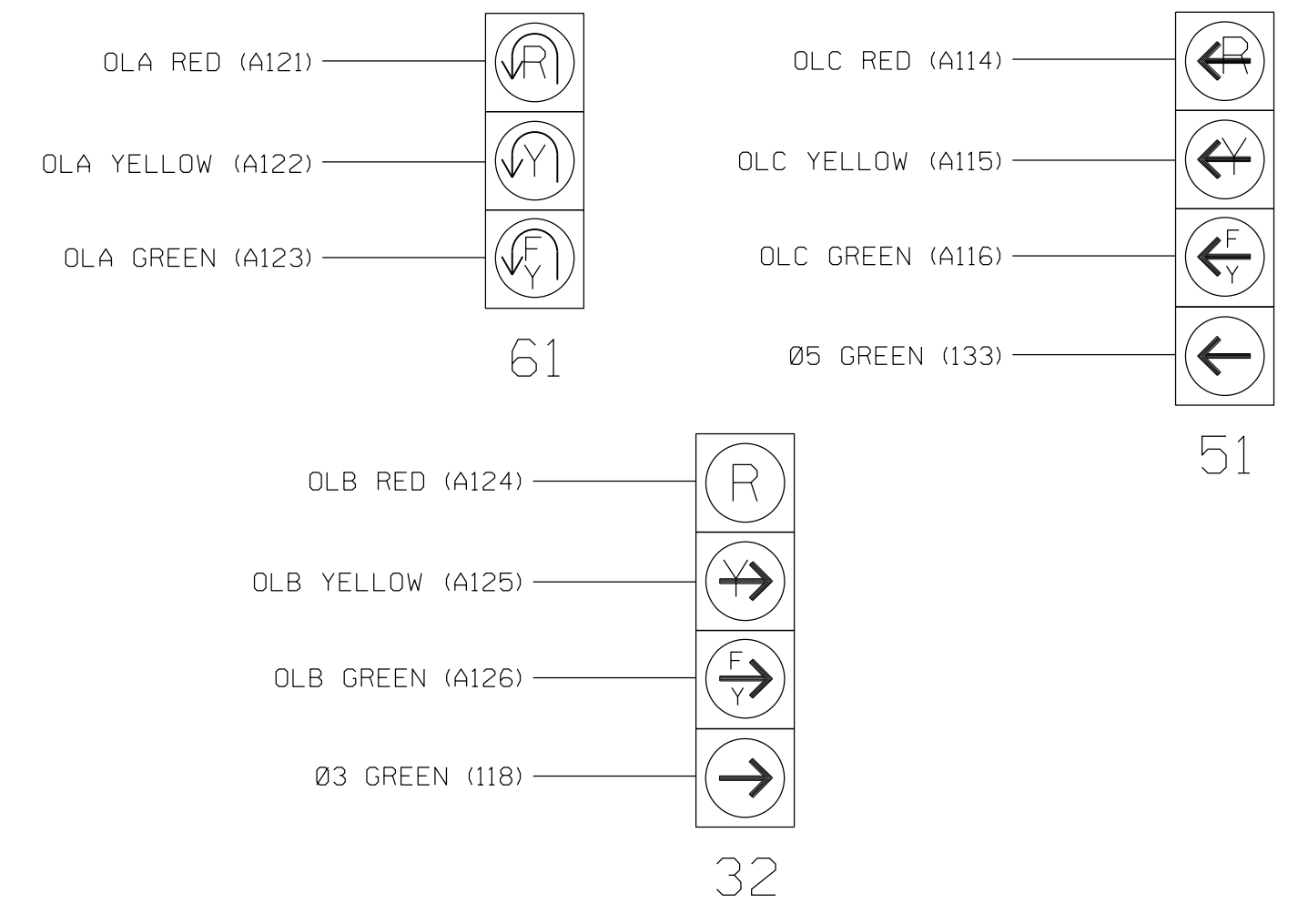
### LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown below)



### FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 07-1112  
 DESIGNED: January 2025  
 SEALED: 03-14-2025  
 REVISED: N/A

### Electrical Detail - Sheet 1 of 4

ELECTRICAL AND PROGRAMMING DETAILS FOR: Prepared for the Offices of: 	SR 1850 (Sandy Ridge Road) at SR 1854 (Bame Road)		SEAL 
	Division 7 Guilford County High Point	SEAL ANTHONY M. ENCARNACION ENGINEER	
PLAN DATE: January 2025 PREPARED BY: JT Stiff	REVIEWED BY: AM Encarnacion REVIEWED BY: PL Alexander	REVISIONS INIT. DATE	DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED AUTHORIZED BY: Anthony Encarnacion DATE: 3/14/2025 SIGNATURE: _____ DATE: _____ SIG. INVENTORY NO. 07-1112

**AtkinsRéalis**  
 1616 EAST MILLBROOK ROAD, SUITE 160  
 RALEIGH, NORTH CAROLINA 27609  
 (919) 876-6888 NCBEES #F-0326