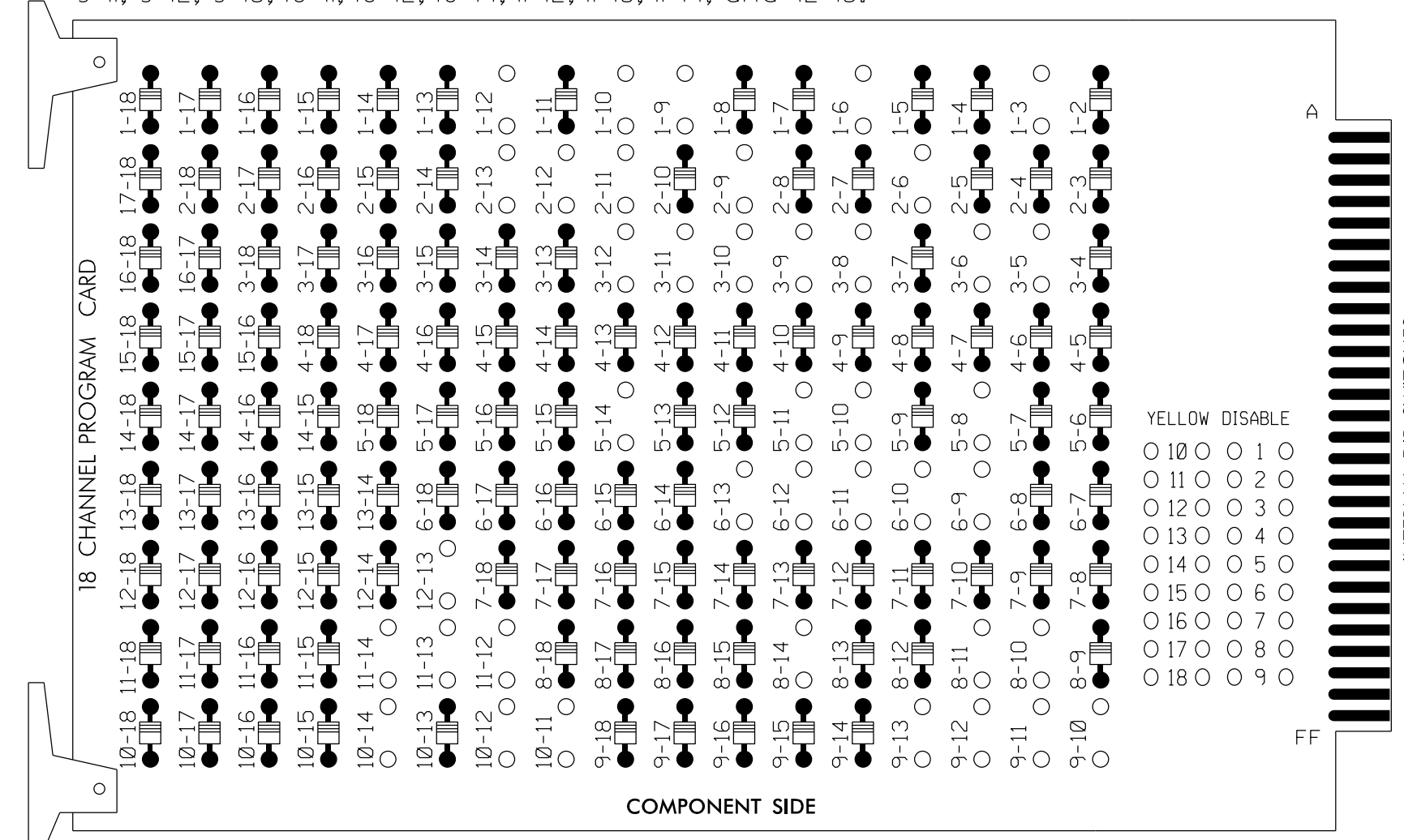


18 CHANNEL IP CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

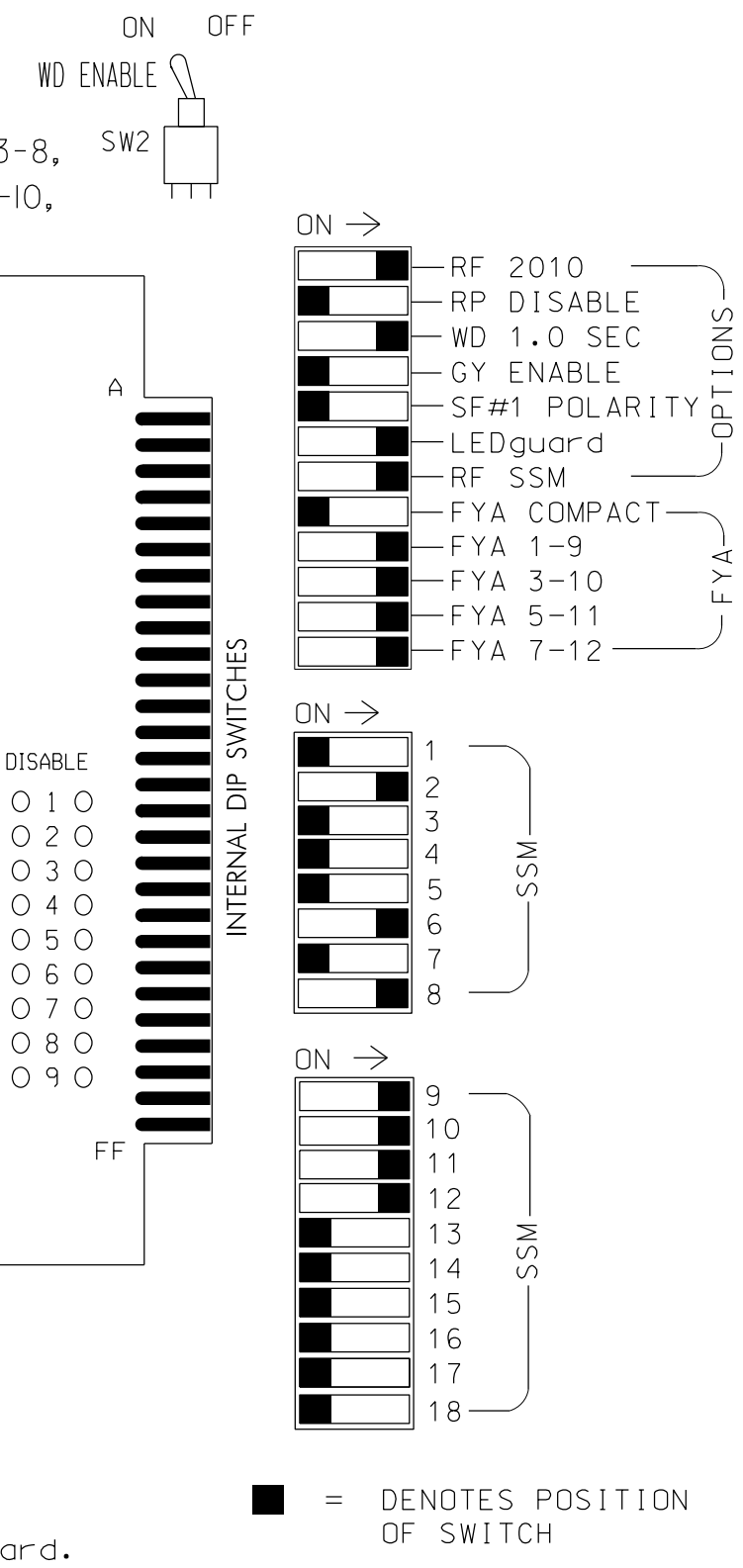
REMOVE DIODE JUMPERS 1-3, 1-6, 1-9, 1-10, 1-12, 2-6, 2-9, 2-11, 2-12, 2-13, 3-5, 3-6, 3-8, 3-9, 3-10, 3-11, 3-12, 5-8, 5-10, 5-11, 5-14, 6-9, 6-10, 6-11, 6-12, 6-13, 8-10, 8-11, 8-14, 9-10, 9-11, 9-12, 9-13, 10-11, 10-12, 10-14, 11-12, 11-13, 11-14, and 12-13.



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.
- 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.....S1,S2,S3,S4,S6,S7,S8,S11,AUX S1,
 AUX S2,AUX S4,AUX S5
 PHASES USED.....1,2,2 PED,3,4*4 PED,6
 OVERLAP "A".....**
 OVERLAP "B".....**
 OVERLAP "C".....**
 OVERLAP "D".....**
 OVERLAP "G".....**
 OVERLAP "H".....**
 OVERLAP "I".....**

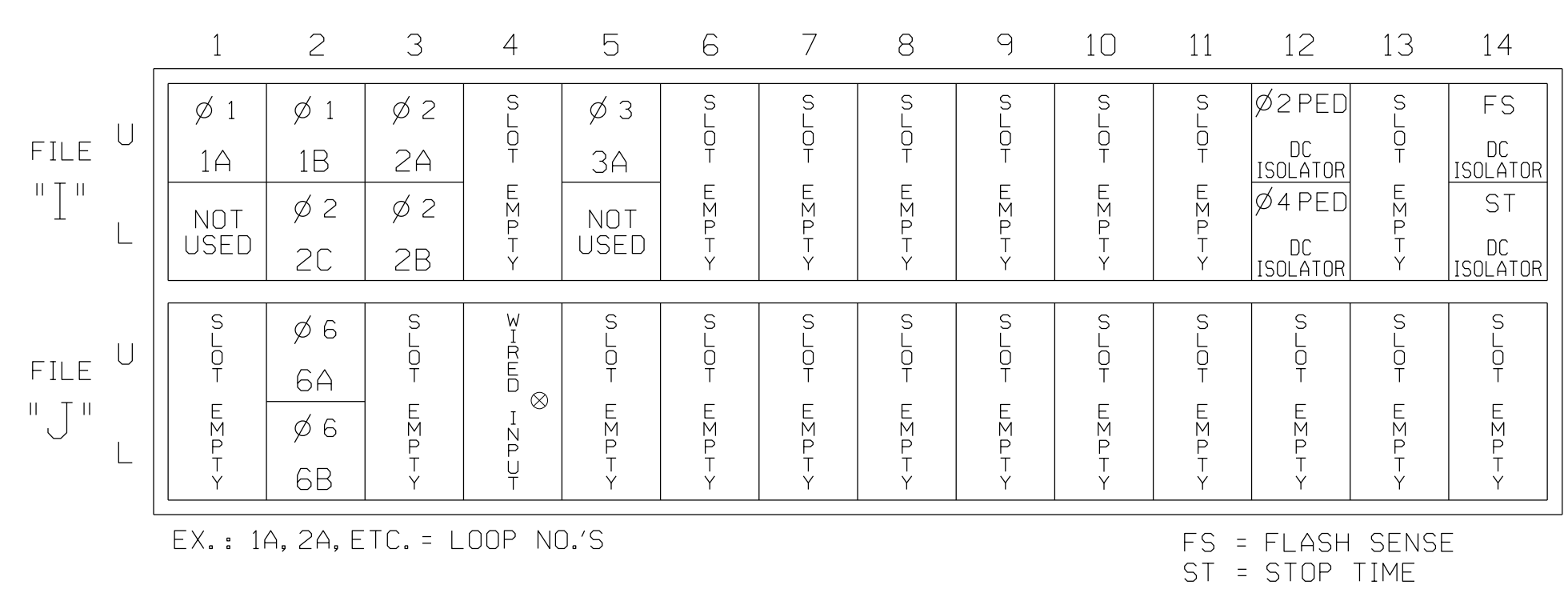
* Phase used for timing purposes only
 ** See overlap programming detail on sheet 2

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	DLG	4	4 PED	QLH	6	6 PED	7	DLI	8 PED	DLA	DLB	SPARE	OLC	OLD	SPARE
SIGNAL HEAD NO.	11	22,23	P21, P22	32	NC	P41, P42	24	61,62	NU	NU	31,33	NU	11	32	NU	24	21	NU
RED	128							134						A124		A114		
YELLOW	*	129		*			*	135										
GREEN	130							136										
RED ARROW													107	A121				A101
YELLOW ARROW													108	A122	A125	A115	A102	
FLASHING YELLOW ARROW														A123	A126	A116	A103	
GREEN ARROW	127			118				133				109						
Hand icon				113				119										
Walking person icon				115				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)



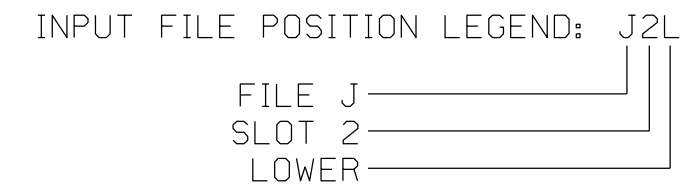
EX.: 1A, 2A, ETC. = LOOP NO.'S
 FS = FLASH SENSE
 ST = STOP TIME

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
1A ¹	TB2-1,2	I1U	56	1 ★	1	YES		15.0		N
	-	J4U	48	26 ★	6	YES		3.0		G
1B	TB2-5,6	I2U	39	2	1	YES		15.0		N
2C	TB2-7,8	I2L	43	12	2	YES		3.0		G
2A	TB2-9,10	I3U	63	32	2	YES			X	N
2B	TB2-11,12	I3L	76	42	2	YES			X	N
3A	TB4-5,6	I5U	58	3	3	YES		3.0		N
6A	TB3-5,6	J2U	40	6	6	YES			X	N
6B	TB3-7,8	J2L	44	16	6	YES			X	N
PED PUSH BUTTONS										
P21,P22	TB8-4,6	I12U	67	PED 2	2 PED					
P41,P42	TB8-5,6	I12L	69	PED 4	4 PED					

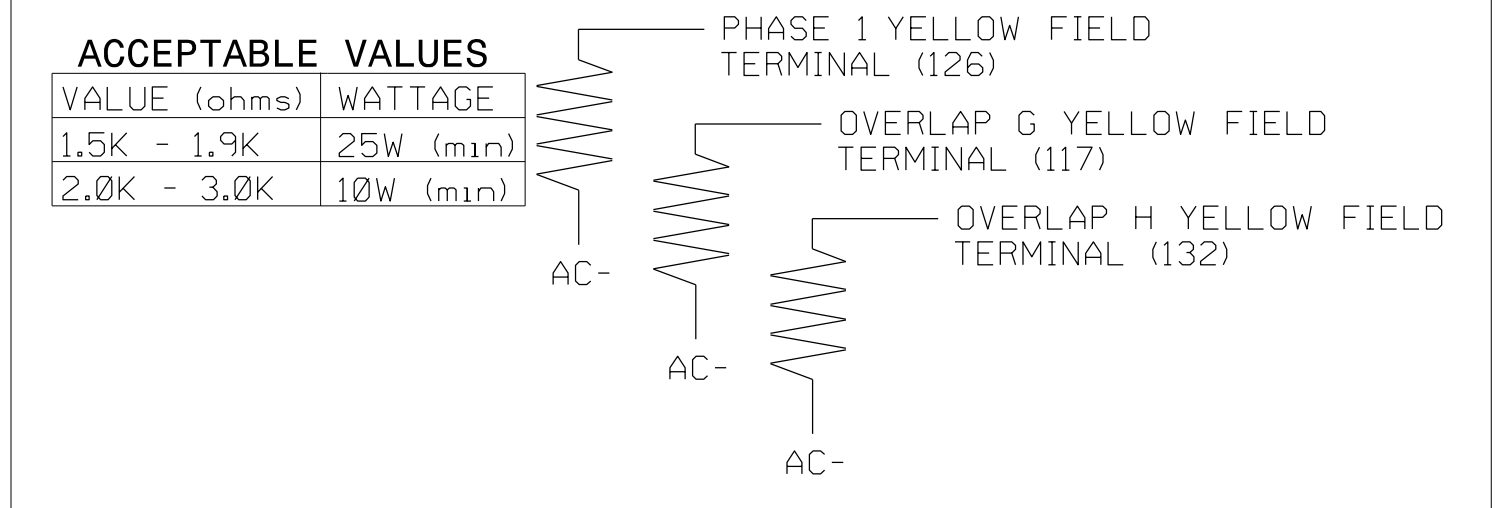
NOTE:
 INSTALL DC ISOLATORS IN INPUT FILE SLOT I12.

- ¹Add jumper from I1-W to J4-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.



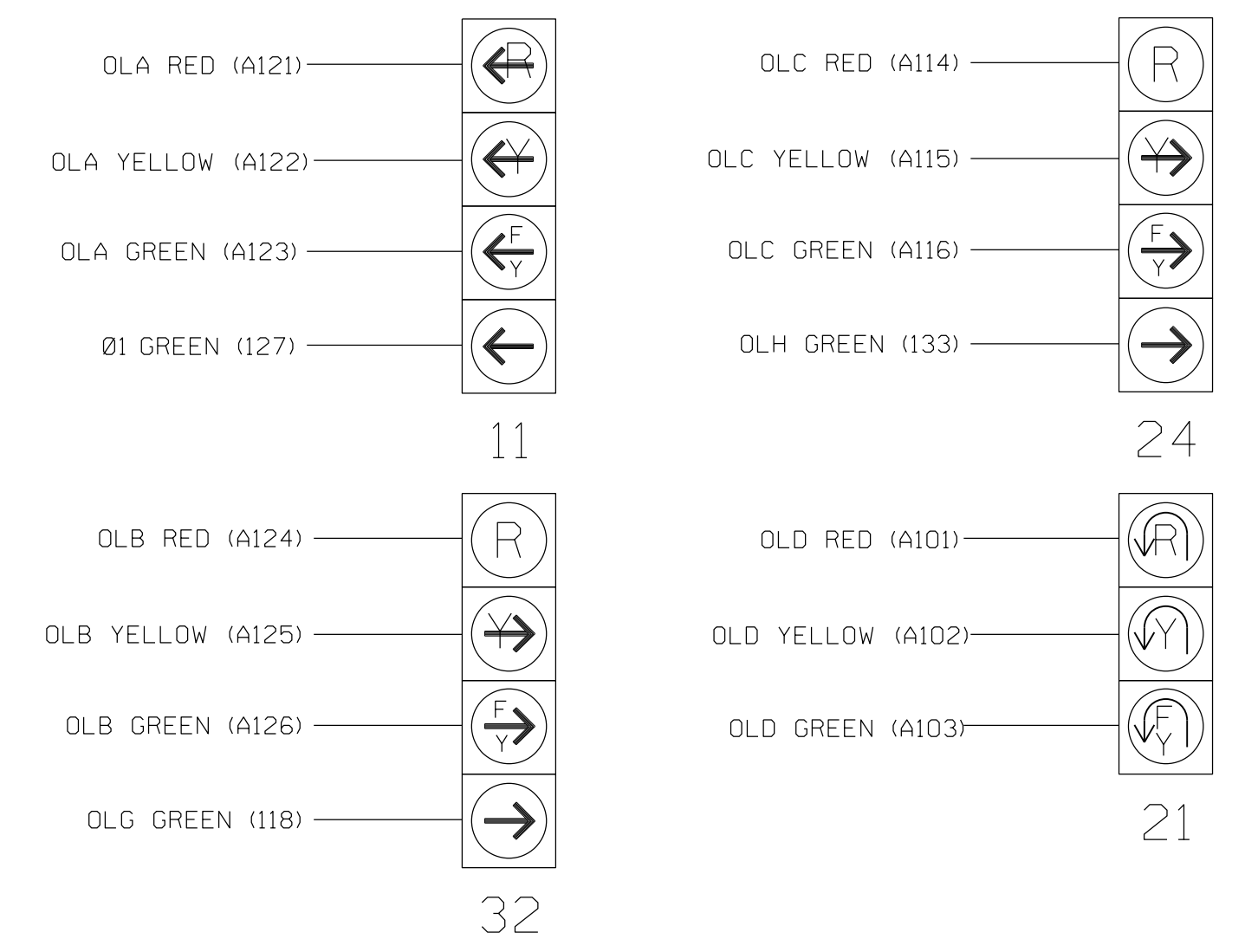
LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown below)



FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 07-1116
 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 1844 (National Service Road)		SEAL
	Division 7 Guilford County High Point		
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 SEAL AUTHORITY OF NORTH CAROLINA PROFESSIONAL ENGINEERS SEAL ANTHONY M. ENCARNACION 3/14/2025 SIGNATURE DATE SIG. INVENTORY NO. 07-1116

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