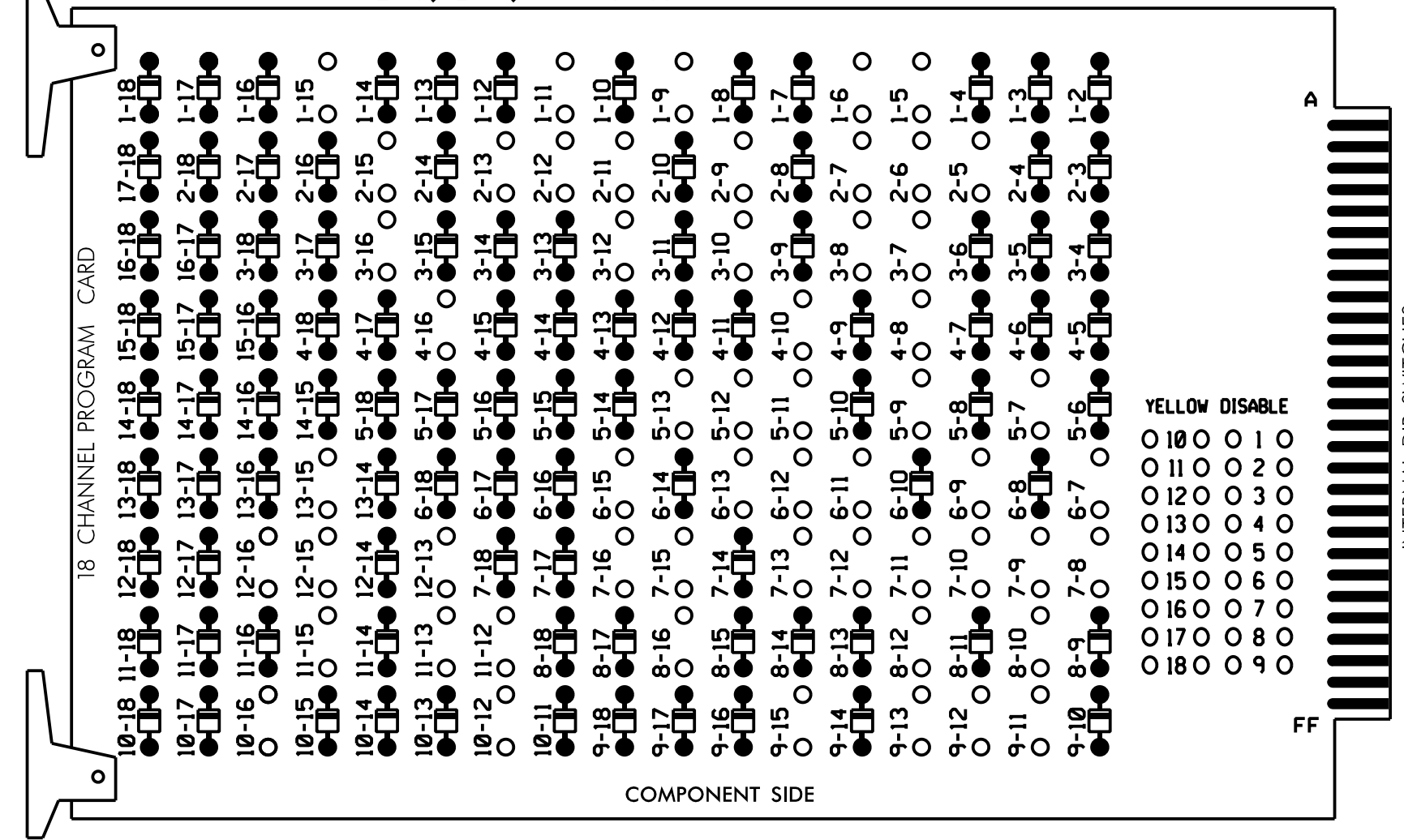


### EDI MODEL 2018ECL-NC CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)  
 REMOVE DIODE JUMPERS 1-5, 1-6, 1-9, 1-11, 1-15, 2-5, 2-6, 2-7, 2-9, 2-11, 2-12, 2-13, 2-15, 3-7, 3-8, 3-10, 3-12, 3-16, 4-8, 4-10, 4-16, 5-7, 5-9, 5-11, 5-13, 6-7, 6-9, 6-12, 6-13, 6-15, 7-8, 7-9, 7-10, 7-11, 7-12, 7-13, 7-15, 8-7, 8-10, 8-12, 8-16, 9-11, 9-12, 9-13, 9-15, 10-12, 10-16, 11-12, 11-13, 11-15, 12-13, 12-15, 12-16, and 13-15.



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.
- Enable Simultaneous Gap-Out for all Phases.
- Program phases 2 and 6 for Variable Initial and Gap Reduction.
- Program phases 2 and 6 for Startup In Green.
- Program phases 2, 6, and 8 for Startup Ped Call.
- Program phases 2 and 6 for Yellow Flash, and overlaps 1 and 2 as Wag Overlaps.
- 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 NC 133 Closed Loop System.

### EQUIPMENT INFORMATION

CONTROLLER.....2070E  
 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,S10,S11,  
 S12,AUX S1,AUX S2,AUX S4,AUX S5  
 PHASES USED.....1,2,2 PED,3,4,5,6,6 PED,8,  
 8 PED  
 OVERLAP "A".....1+2  
 OVERLAP "B".....3+4  
 OVERLAP "C".....5+6  
 OVERLAP "D".....2  
 OVERLAP "E".....3

### SIGNAL HEAD HOOK-UP CHART

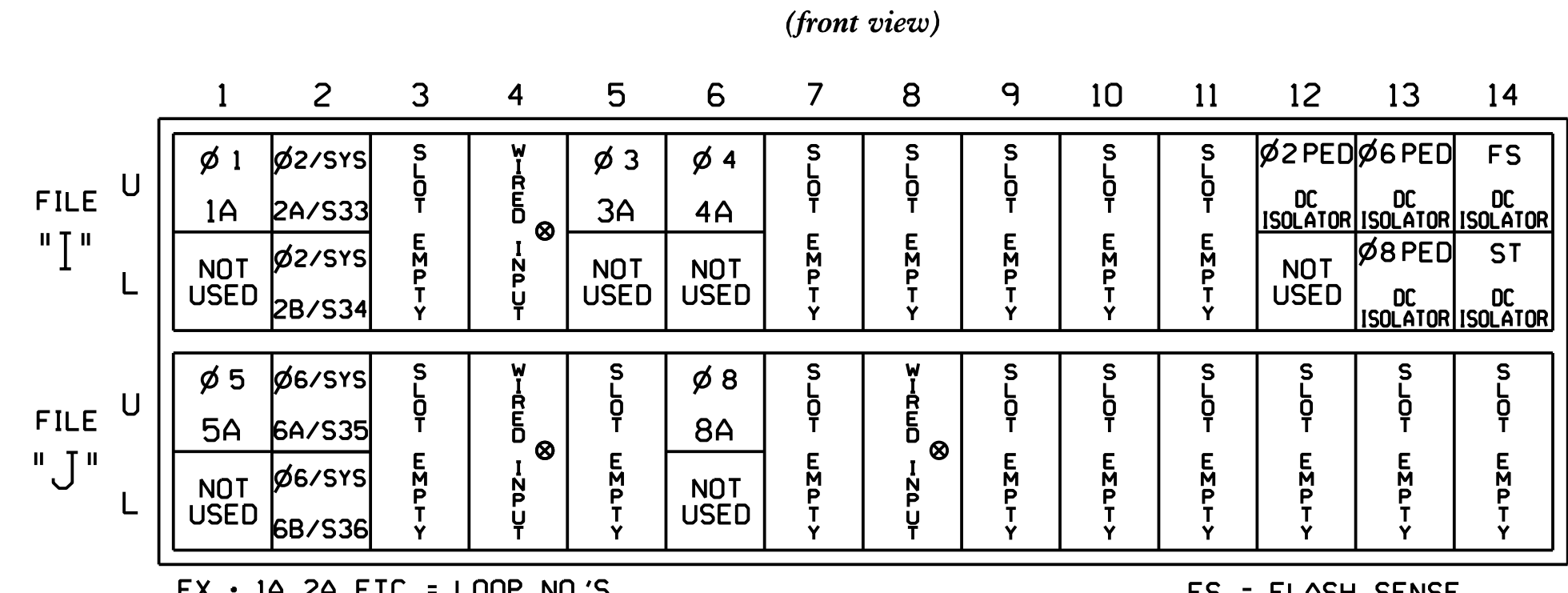
LOAD SWITCH NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	AUX S1	AUX S2	AUX S3	AUX S4	AUX S5	AUX S6
CMU CHANNEL NO.	1	2	13	3	4	14	5	6	15	7	8	16	9	10	17	11	12	18
PHASE	1	2	PED	3	4	PED	5	6	PED	8	8 PED	OLA	OLA	OLA	SPARE	DLA	DLA	SPARE
SIGNAL HEAD NO.	11	21,22	P21, P22	31	41,42	NU	51	61,62	P61, P62	23	81,82	P81, P82	11	31	NU	51	23	NU
RED	128			101				134			107							A101
YELLOW	*	129		*	102			* 135			* 108							
GREEN		130			103			136			109							
RED ARROW													A121	A124				A114
YELLOW ARROW													A122	A125				A115 A102
FLASHING YELLOW ARROW													A123	A126				A116 A103
GREEN ARROW	127			118			133			124								
Hand				113						119			110					
Foot																		

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

### COUNTDOWN PEDESTRIAN SIGNAL OPERATION

Countdown Ped Signals are required to display timing only during Ped Clearance Interval. Consult Ped Signal Module user's manual for instructions on selecting this feature.

### INPUT FILE POSITION LAYOUT



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.	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			3
	-	I1U	56	18★	51	1	Y	Y			3
2A/S33	TB2-5,6	I2U	39	1	2	2/SYS	Y	Y			
2B/S34	TB2-7,8	I2L	43	5	12	2/SYS	Y	Y			
3A <sup>2</sup>	TB4-5,6	I5U	58	20	3	3	Y	Y			15
	-	J8U	50	12	28	8	Y	Y			3
4A	TB4-9,10	I6U	41	3	4	4	Y	Y			5
	TB3-1,2	J1U	55	17	5	5	Y	Y			15
	-	I4U	47	9★	22	2	Y	Y			3
5A <sup>3</sup>	-	J1U	55	17★	55	5	Y	Y			3
	6A/S35	TB3-5,6	J2U	40	2	6	6/SYS	Y	Y		
	6B/S36	TB3-7,8	J2L	44	6	16	6/SYS	Y	Y		
8A	TB5-9,10	J6U	42	4	8	8	Y	Y			10
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					
P81,P82	TB8-8,9	I13L	70	32	PED 8	8 PED					

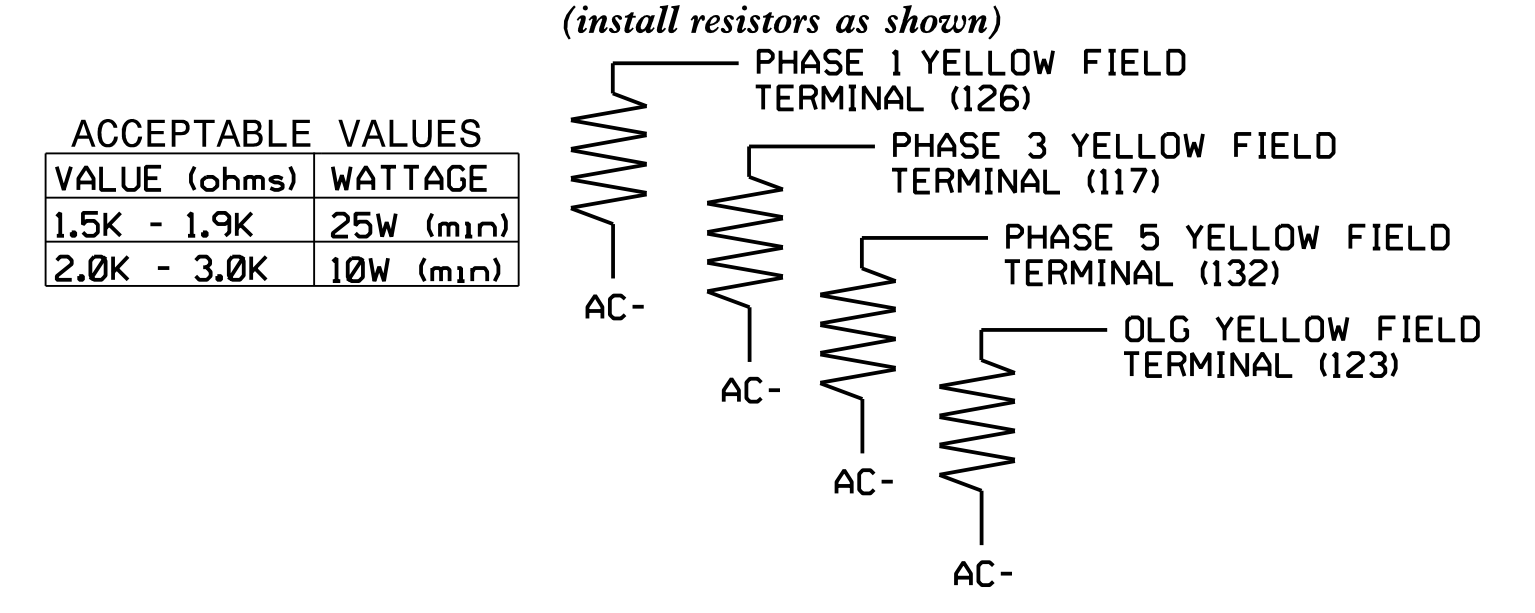
NOTE:  
 INSTALL DC ISOLATORS IN INPUT FILE SLOTS 112 AND 113.

- Add jumper from I1-W to J4-W, on rear of input file.
- Add jumper from I5-W to J8-W, on rear of input file.
- Add jumper from J1-W to I4-W, on rear of input file.

★ See vehicle detector setup programming detail for alternate phasing on sheets 3 and 4.

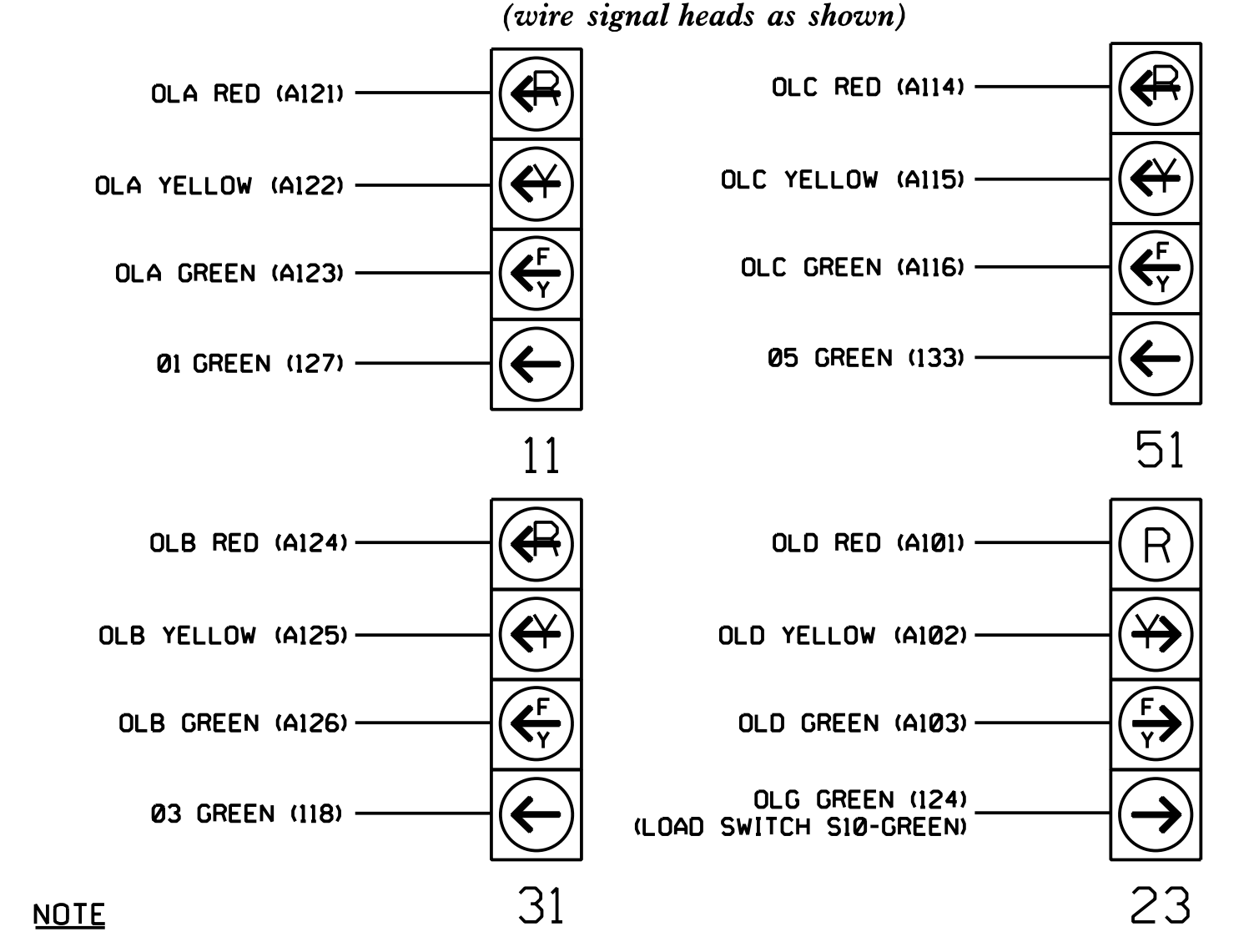
INPUT FILE POSITION LEGEND: J2L  
 FILE J  
 SLOT 2  
 LOWER

### LOAD RESISTOR INSTALLATION DETAIL



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 03-0897  
 DESIGNED: June 2017  
 SEALED: 9/10/2021  
 REVISED: N/A

### FYA SIGNAL WIRING DETAIL



NOTE  
 The sequence display for signal heads 11, 23, 31, and 51 requires special logic programming. See sheet 2 for programming instructions.

Electrical Detail - Sheet 1 of 7  
 Signal Upgrade  
 Final Design

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

	NC 211 (Howe Street) at Tidewater Plaza/Sandy Lane			
	Division 03 Brunswick Co. Southport			
	PLAN DATE: June 2017 REVIEWED BY: A.D. Klinksiek			
	PREPARED BY: A.H. Thornburg REVIEWED BY: N.R. Simmons			
REVISIONS		INIT. DATE	DATE	
		SIGNATURE	DATE	
		SIG. INVENTORY NO. 03-0897		

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