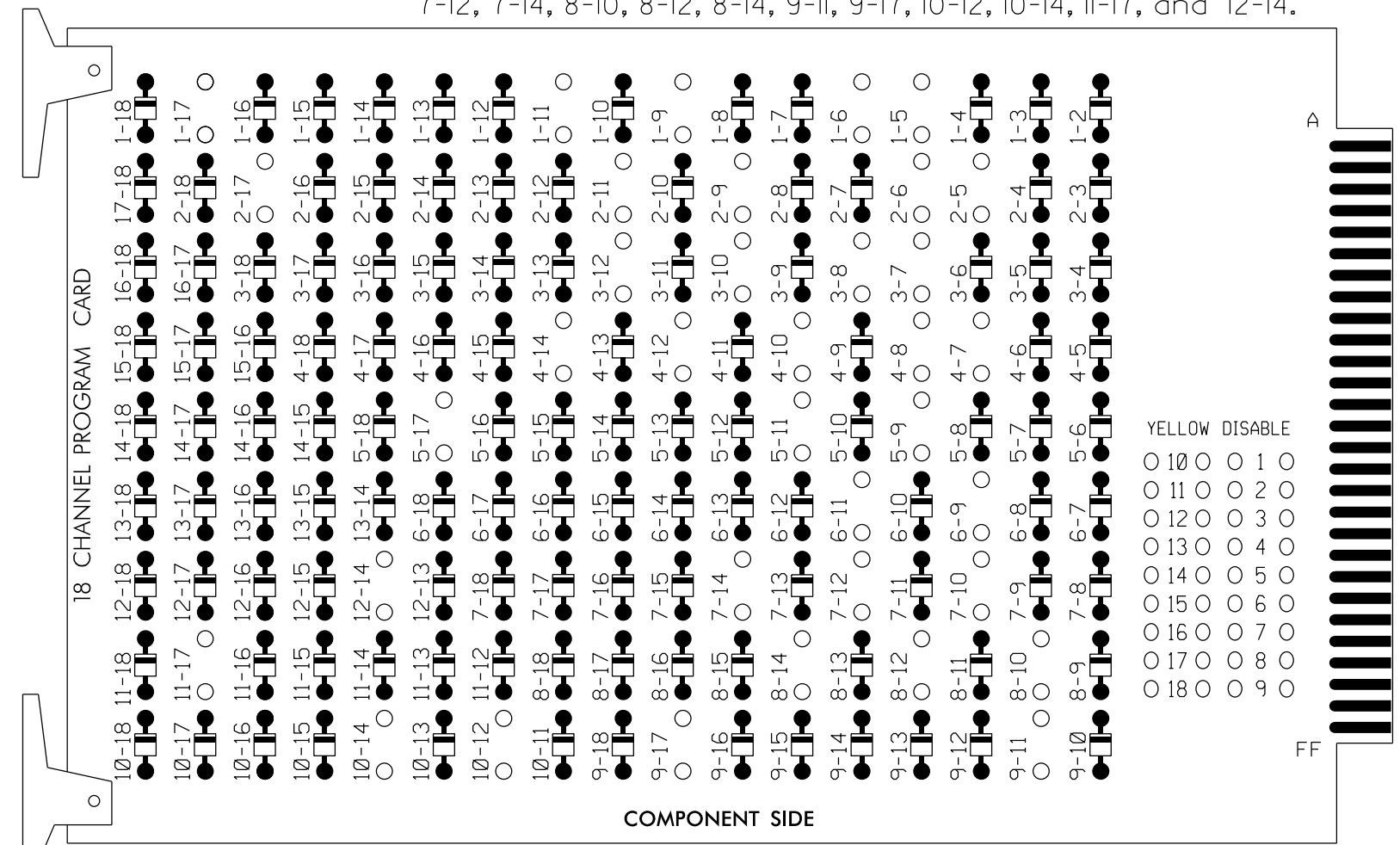


**EDI MODEL 2018ECL-NC CONFLICT MONITOR PROGRAMMING DETAIL**

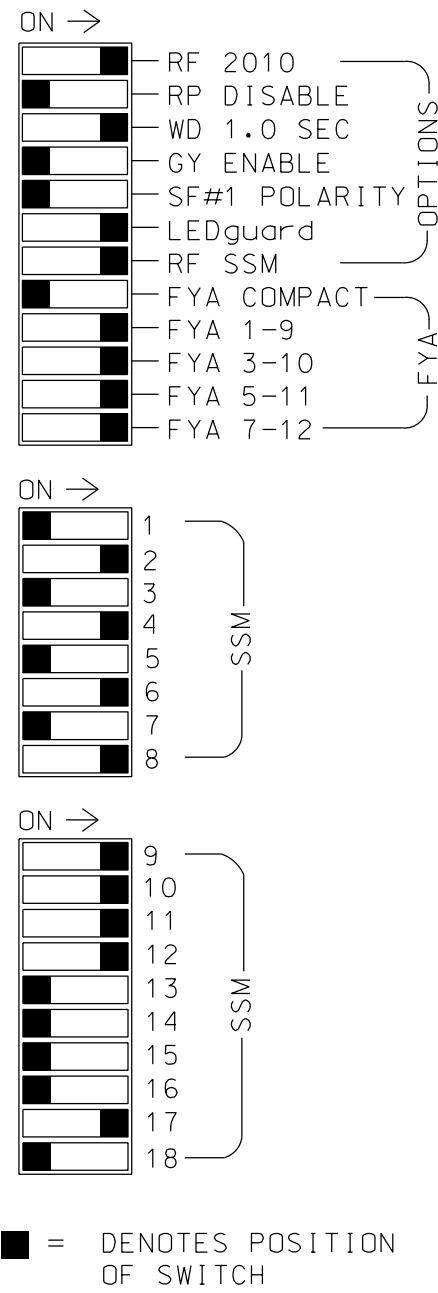
(remove jumpers and set switches as shown)  
 REMOVE DIODE JUMPERS 1-5, 1-6, 1-9, 1-11, 1-17, 2-5, 2-6, 2-9, 2-11, 2-17, 3-7, 3-8, 3-10, 3-12, 4-7, 4-8, 4-10, 4-12, 4-14, 5-9, 5-11, 5-17, 6-9, 6-11, 7-10, 7-12, 7-14, 8-10, 8-12, 8-14, 9-11, 9-17, 10-12, 10-14, 11-17, and 12-14.



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.



**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 Startup In Green.
- Program phase 4 for Startup Ped Call.
- Program phases 2 and 6 for Yellow Flash, and overlaps 1 and 2 as Wag Overlaps.

**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,S4,S5,S6,S7,S8,S10,S11,  
 AUX S1,AUX S2,AUX S3, AUX S4,AUX S5  
 PHASES USED.....1,2,3,4,4 PED,5,6,7,8  
 OVERLAP "A".....1+2  
 OVERLAP "B".....3+4  
 OVERLAP "C".....5+6  
 OVERLAP "D".....7+8  
 OVERLAP "E".....5

**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	8	8 PED	OLA	OLB	OLE	OLC	OLD	SPARE
SIGNAL HEAD NO.	11	21,22	NU	31	41,42	P41, P42	51	61,62	NU	71	81,82	NU	11	31	42	51	71	NU
RED		128		101				134			107					*		
YELLOW	*	129		102			*	135		*	108							
GREEN		130		103				136			109							
RED ARROW													A121	A124		A114	A101	
YELLOW ARROW													A122	A125	A112	A115	A102	
FLASHING YELLOW ARROW													A123	A126		A116	A103	
GREEN ARROW	127			118				133			124					A113		
Hand icon								104										
Person icon								106										

NU = Not Used

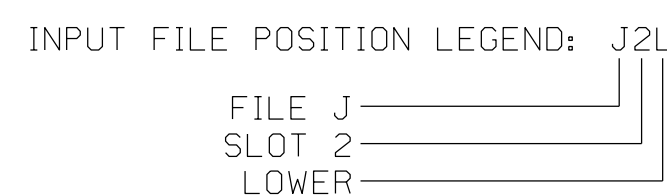
\* Denotes install load resistor. See load resistor installation detail this sheet.

★ See pictorial of head wiring in detail this sheet.

**INPUT FILE 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			
2A	TB2-5,6	I2U	39	1	2	2	Y	Y			
	TB4-5,6	I5U	58	20	3	3	Y	Y			15
3A <sup>2</sup>	-	J8U	50	12★	28	8	Y	Y			3
	-	I5U	58	20★	53	3	Y	Y			
4A	TB4-9,10	I6U	41	3	4	4	Y	Y			
	TB3-1,2	J1U	55	17	5	5	Y	Y			15
5A <sup>3</sup>	-	I4U	47	9★	22	2	Y	Y			
	-	J1U	55	17★	55	5	Y	Y			
5B	TB3-7,8	J2L	44	6	16	5	Y	Y			15
	TB3-5,6	J2U	40	2	6	6	Y	Y			
7A <sup>4</sup>	TB5-5,6	J5U	57	19	7	7	Y	Y			15
	-	I8U	49	11★	24	4	Y	Y			3
8A	TB5-9,10	J6U	42	4	8	8	Y	Y			10

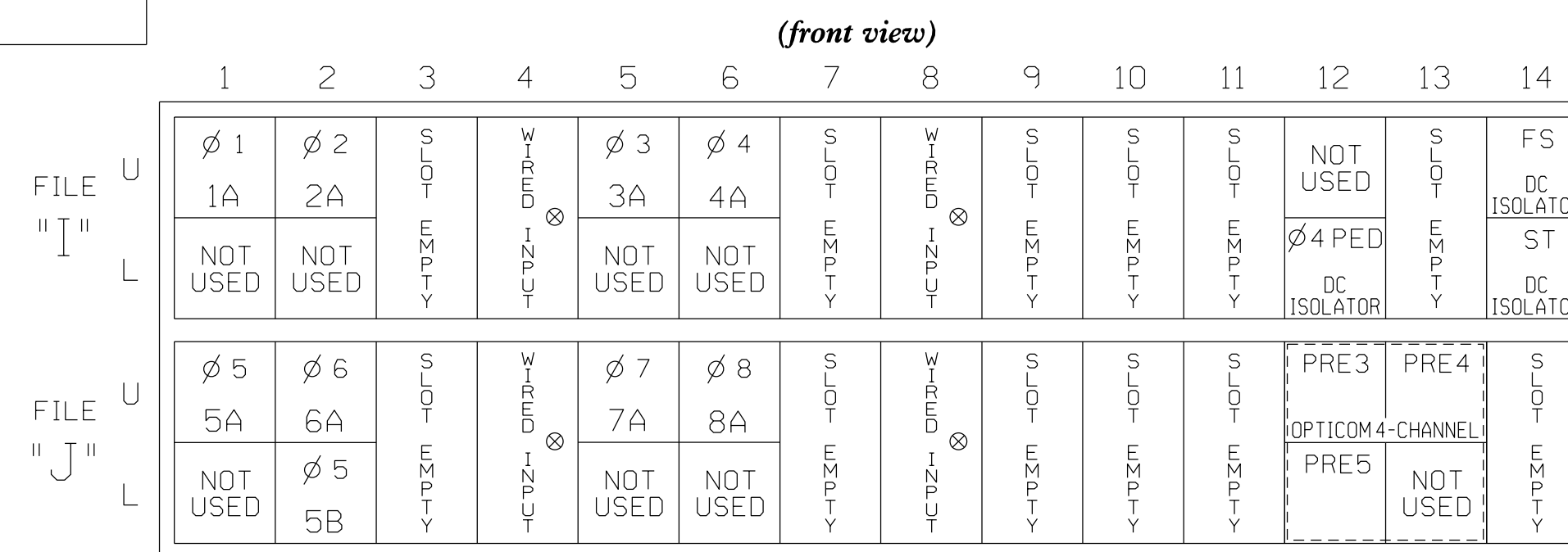
- NOTE:  
 INSTALL DC ISOLATOR IN INPUT FILE SLOT 112.
- Add jumper from I1-W to J4-W, on rear of input file.
  - Add jumper from I5-W to J8-W, on rear of input file.
  - Add jumper from J1-W to I4-W, on rear of input file.
  - Add jumper from J5-W to I8-W, on rear of input file.
- ★ See Input Page Assignment programming details on sheets 3, 4, 5, and 6.



**COUNTDOWN PEDESTRIAN SIGNAL OPERATION**

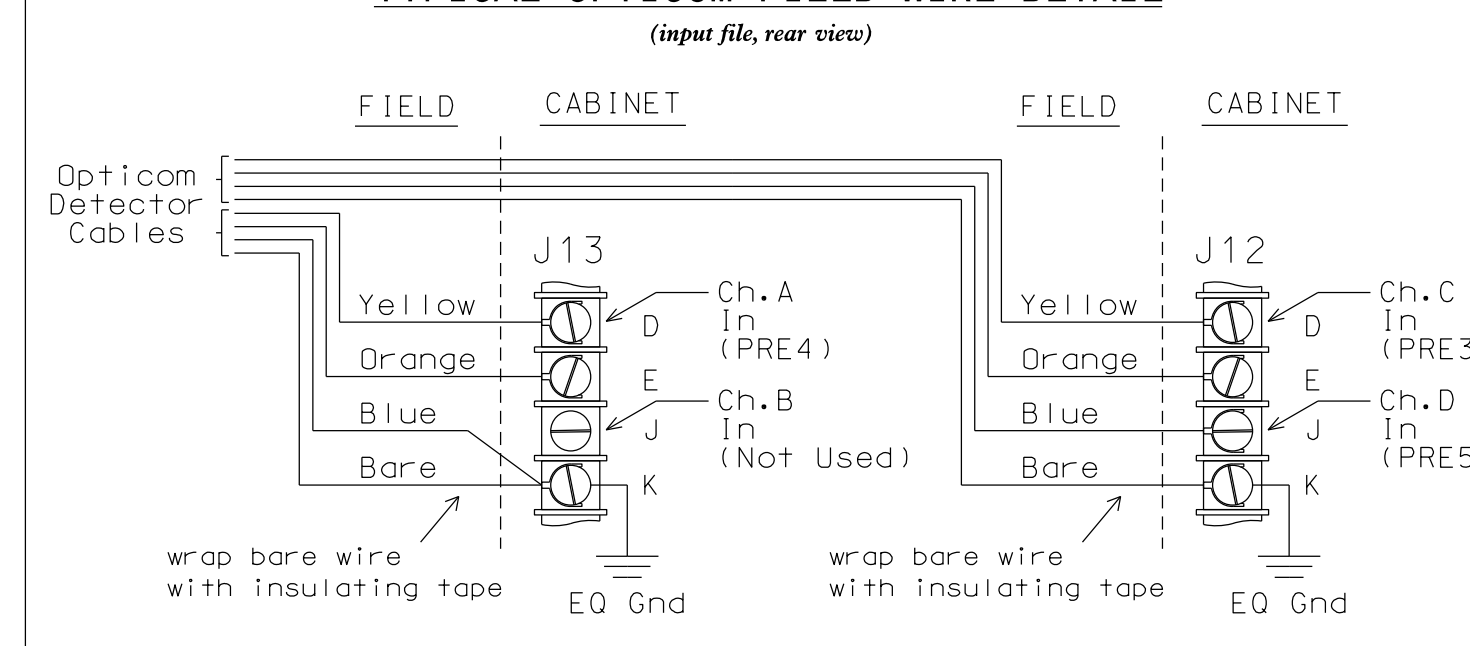
Countdown Ped Signals are required to display timing only during Ped Clearance Interval. Consult Ped Signal Module user's manual for instructions on selecting this feature.

**INPUT FILE POSITION LAYOUT**

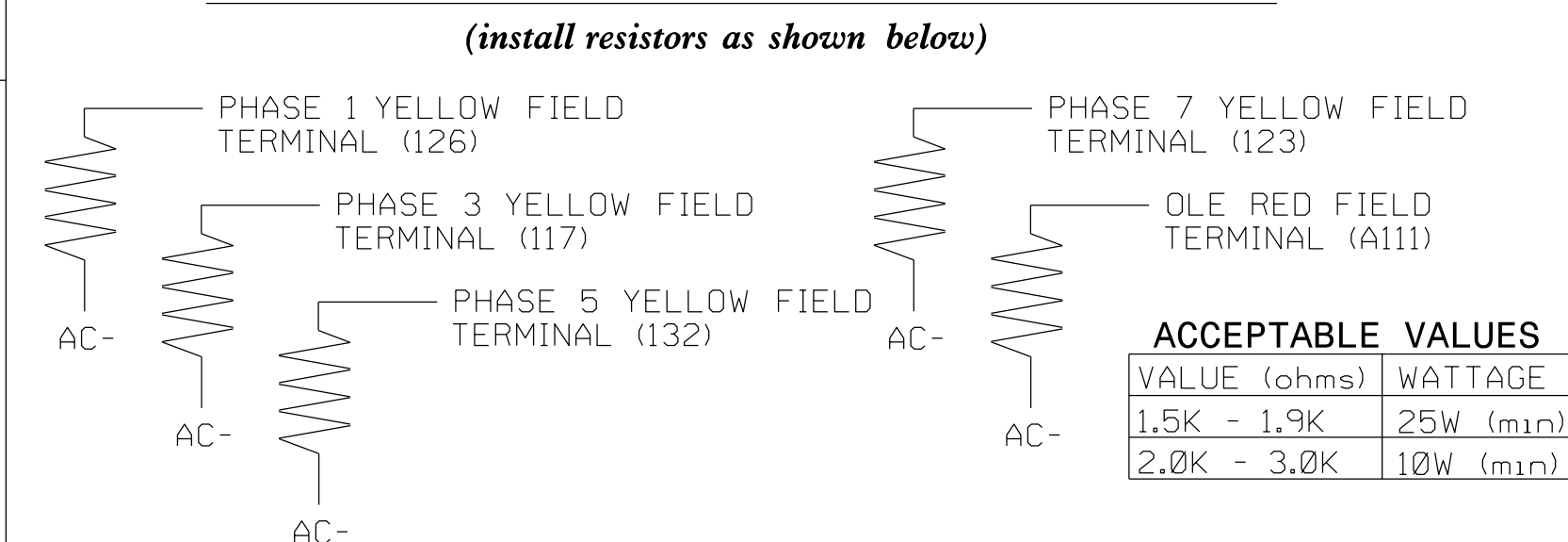


EX.: 1A, 2A, ETC. = LOOP NO.'S  
 FS = FLASH SENSE  
 ST = STOP TIME  
 ⊗ Wired Input - Do not populate slot with detector card

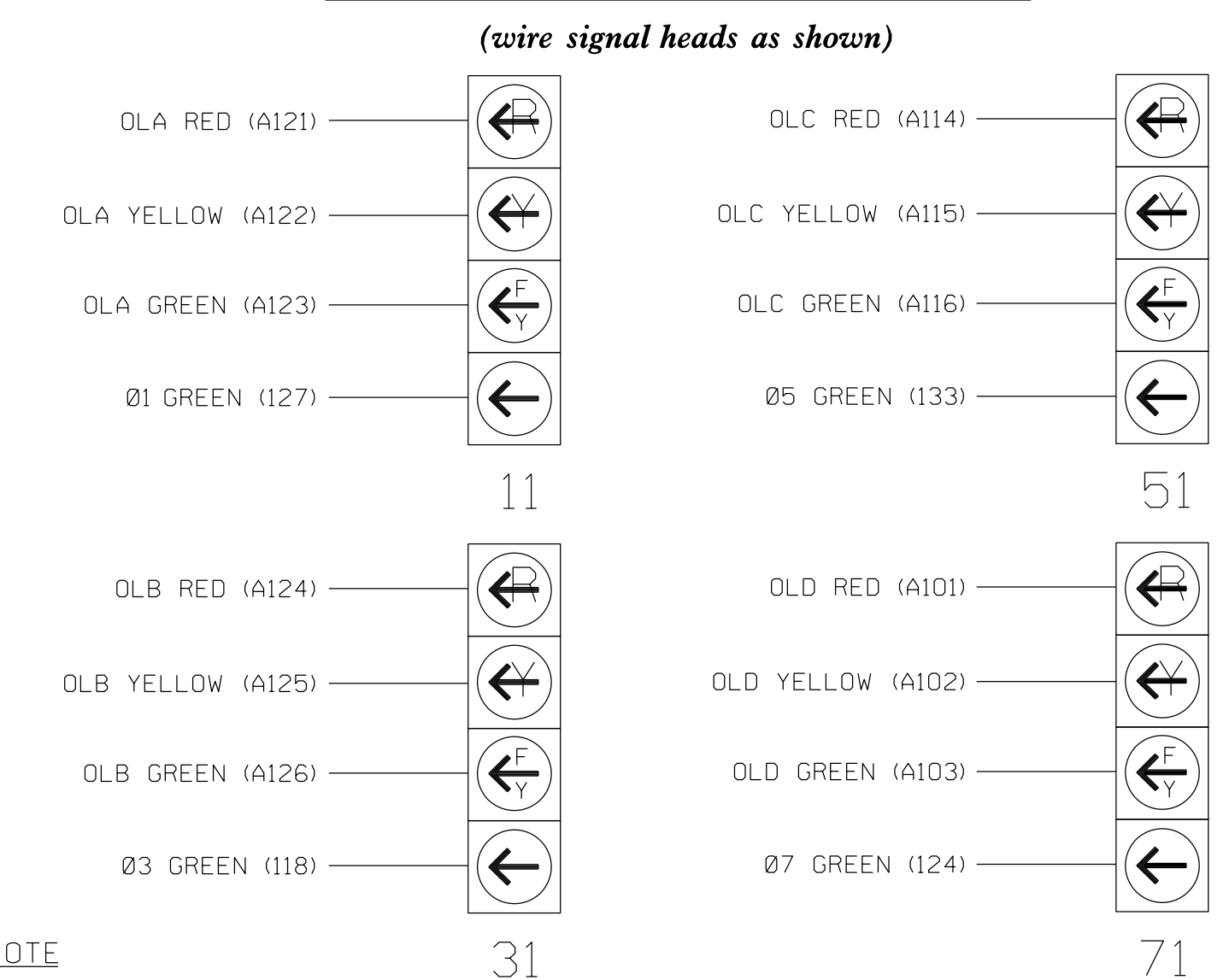
**TYPICAL OPTICOM FIELD WIRE DETAIL**



**LOAD RESISTOR INSTALLATION DETAIL**



**FYA SIGNAL WIRING DETAIL**



**NOTE**

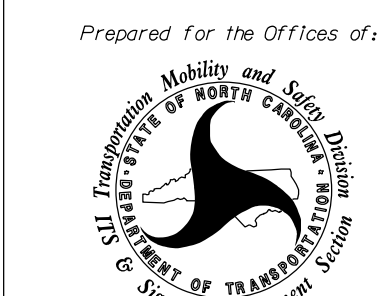
The sequence display for signal heads 11, 31, 51, and 71 requires special logic programming. See sheet 2 for programming instructions.

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 12-0600  
 DESIGNED: March 2022  
 SEALED: 03/01/2022  
 REVISED: N/A

**This plan supersedes the plan signed and sealed on 11/13/2018.**

Electrical Detail-Final Design-Sheet 1 of 9

ELECTRICAL AND PROGRAMMING DETAILS FOR:



750 N. Greenfield Pkwy, Garner, NC 27529

US 74 Bus. (Marion Street) at  
 NC 150 (Cherryville Road) / SR 2053 (Peach Street)

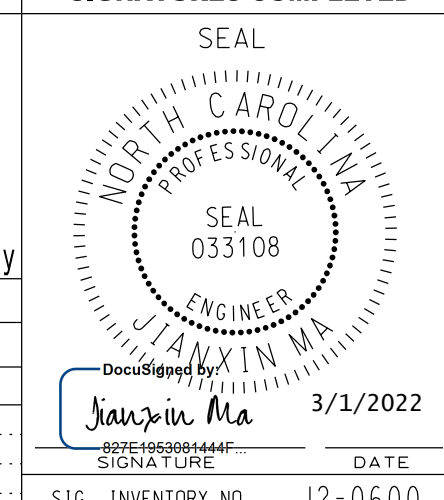
Division 12 Cleveland County Shelby

PLAN DATE: March 2022 REVIEWED BY: J.L. Lewis

PREPARED BY: J. Ma REVIEWED BY: M.L. Stygles

REVISIONS INIT. DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



SIG. INVENTORY NO. 12-0600

