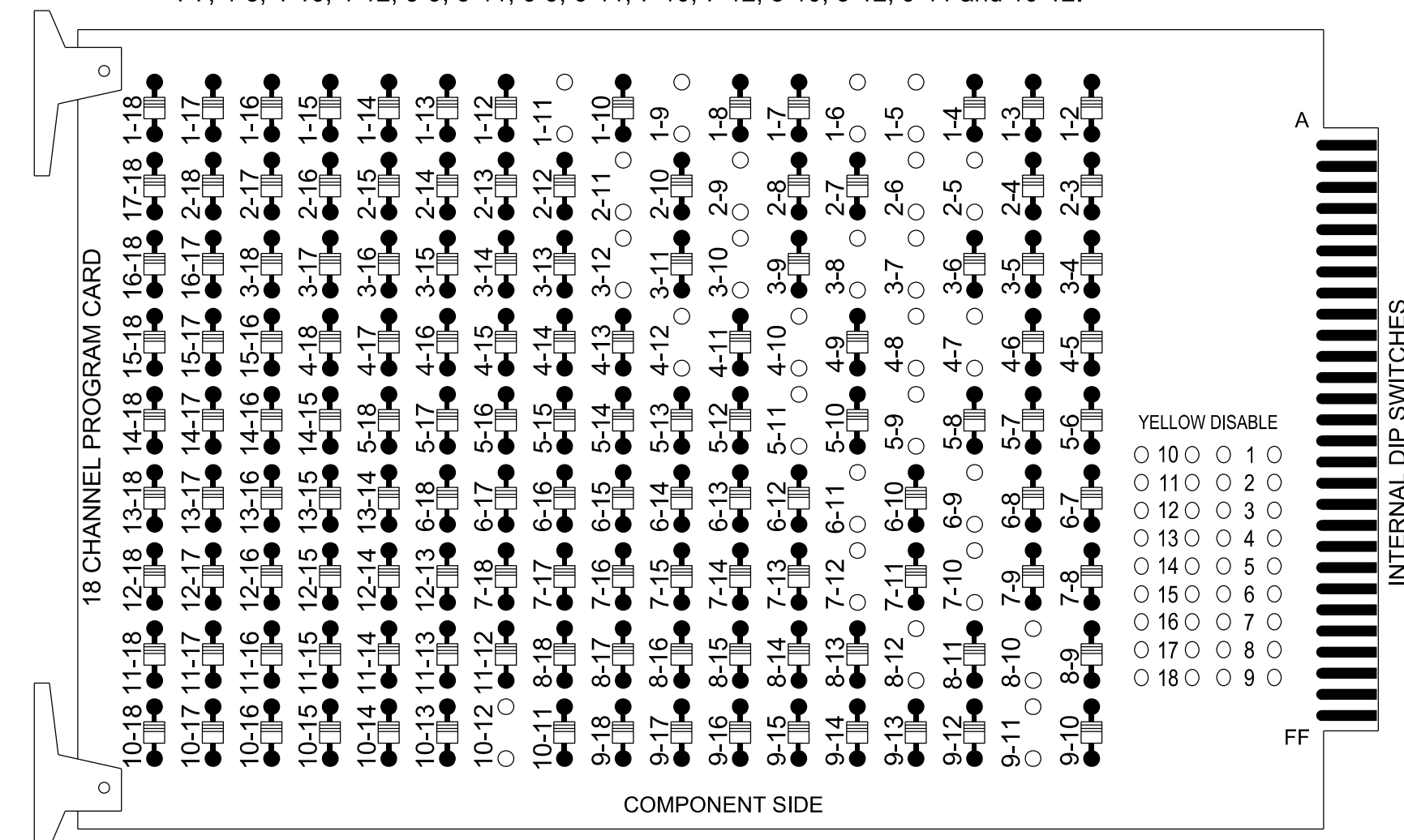


### 18 CHANNEL IP CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

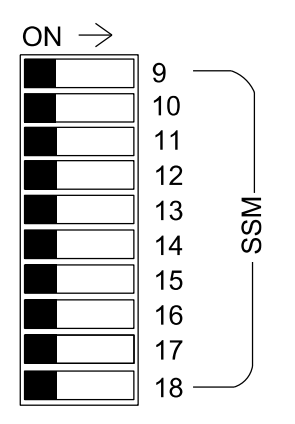
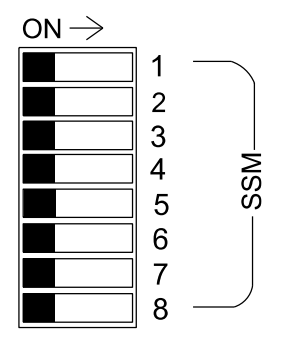
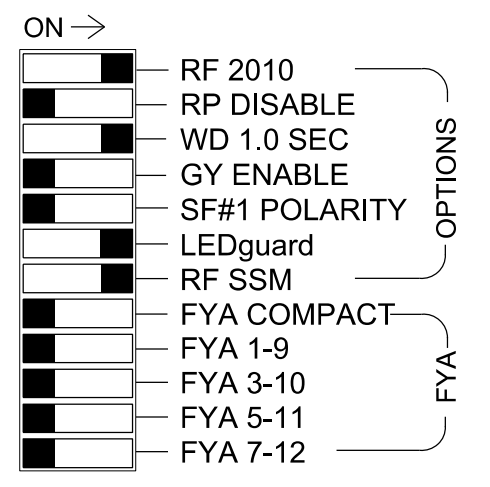
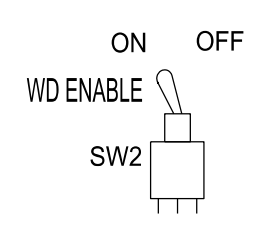
REMOVE DIODE JUMPERS 1-5, 1-6, 1-9, 1-11, 2-5, 2-6, 2-9, 2-11, 3-7, 3-8, 3-10, 3-12, 4-7, 4-8, 4-10, 4-12, 5-9, 5-11, 6-9, 6-11, 7-10, 7-12, 8-10, 8-12, 9-11 and 10-12.



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



■ = 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 plan.
- Program phases 4 and 8 for Dual Entry.
- Program controller to start up in phase 2 Green No Walk and 6 Green No Walk.
- 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 D06-28\_Hope Mills Closed Loop Signal System.

### EQUIPMENT INFORMATION

Controller.....New 2070LX  
 Cabinet.....Existing 332 w/ Aux Software.....Q-Free MAXTIME  
 Cabinet Mount.....Base  
 Output File Positions.....18 With Aux. Output File  
 Load Switches Used.....S1, S2, S4, S5, S7, S8, S10, S11, AUX S1, AUX S2, AUX S4, AUX S5  
 Phases Used.....1, 2, 3, 4, 5, 6, 7, 8  
 Overlap "1".....\*  
 Overlap "2".....\*  
 Overlap "3".....\*  
 Overlap "4".....\*

\*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	8	8 PED	OL1	OL2	SPARE	OL3	OL4	SPARE		
SIGNAL HEAD NO.	11*	21,22	NU	22*	31*	41,42	NU	51*	61,62	NU	62	71*	81,82	NU	11*	31*	NU	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				117						123			A122	A125				A115	A102	
FLASHING YELLOW ARROW													A123	A126				A116	A103	
GREEN ARROW	127								133		124	124								

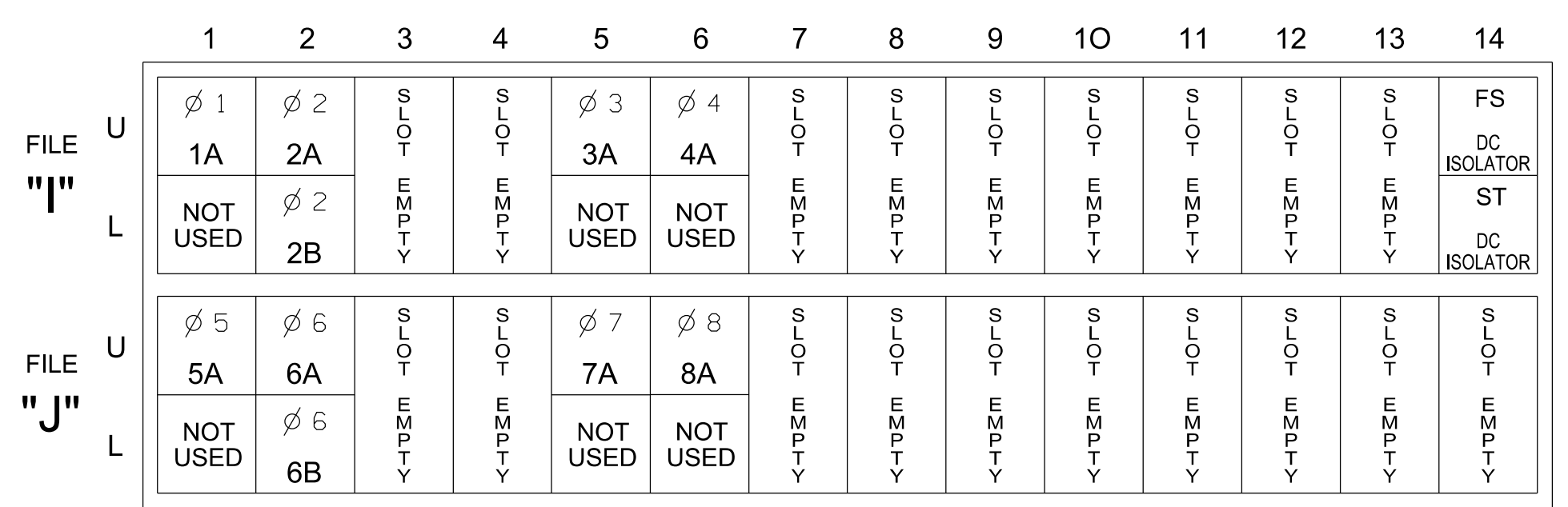
NU = Not Used

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

\*See pictorial of head wiring in detail this sheet.

### INPUT FILE POSITION LAYOUT

(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.	INPUT POINT	DETECTOR NO.	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN
1A <sup>1</sup>	TB2-1,2	I1U	56	18	1	1	15		X		X	
				-	29	6	3		X		X	X
2A	TB2-5,6	I2U	39	1	2	2			X	X	X	
2B	TB2-7,8	I2L	43	5	3	2			X	X	X	
3A <sup>2</sup>	TB4-5,6	I5U	58	20	7	3	15		X		X	
				-	30	8	3		X		X	
4A	TB4-9,10	I6U	41	3	8	4			X		X	
				17	15	5	15		X		X	
5A <sup>3</sup>	TB3-1,2	J1U	55	-	31	2	3		X		X	X
6A	TB3-5,6	J2U	40	2	16	6			X	X	X	
6B	TB3-7,8	J2L	44	6	17	6			X	X	X	
7A <sup>4</sup>	TB5-5,6	J5U	57	19	21	7	15		X		X	
				-	32	4	3		X		X	
8A	TB5-9,10	J6U	42	4	22	8			X		X	

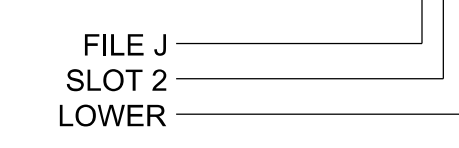
<sup>1</sup>Remove jumper from I1-W to J4-W, on rear of input file.

<sup>2</sup>Remove jumper from I5-W to J8-W, on rear of input file.

<sup>3</sup>Remove jumper from J1-W to I4-W, on rear of input file.

<sup>4</sup>Remove jumper from J5-W to I8-W, on rear of input file.

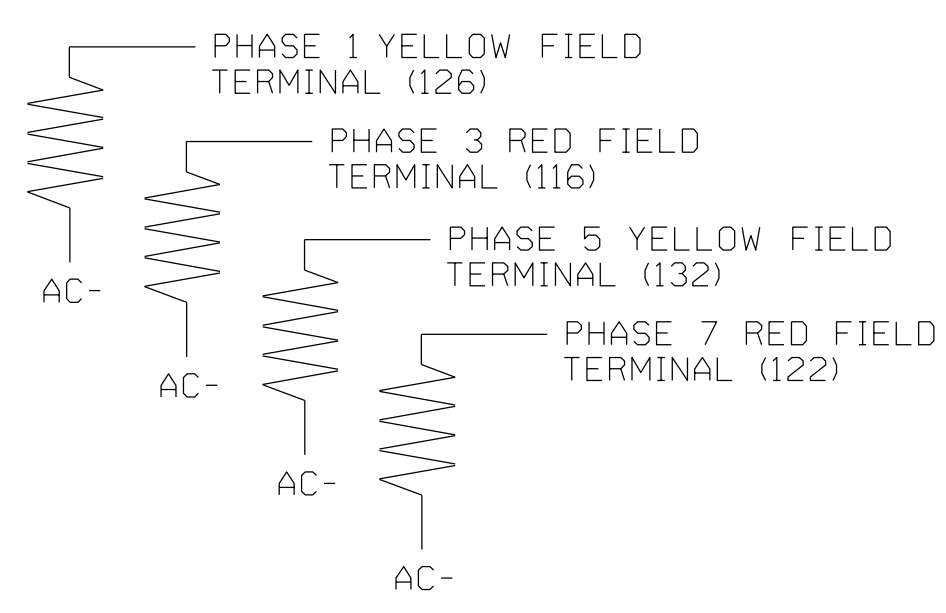
#### INPUT FILE POSITION LEGEND: J2L



### LOAD RESISTOR INSTALLATION DETAIL

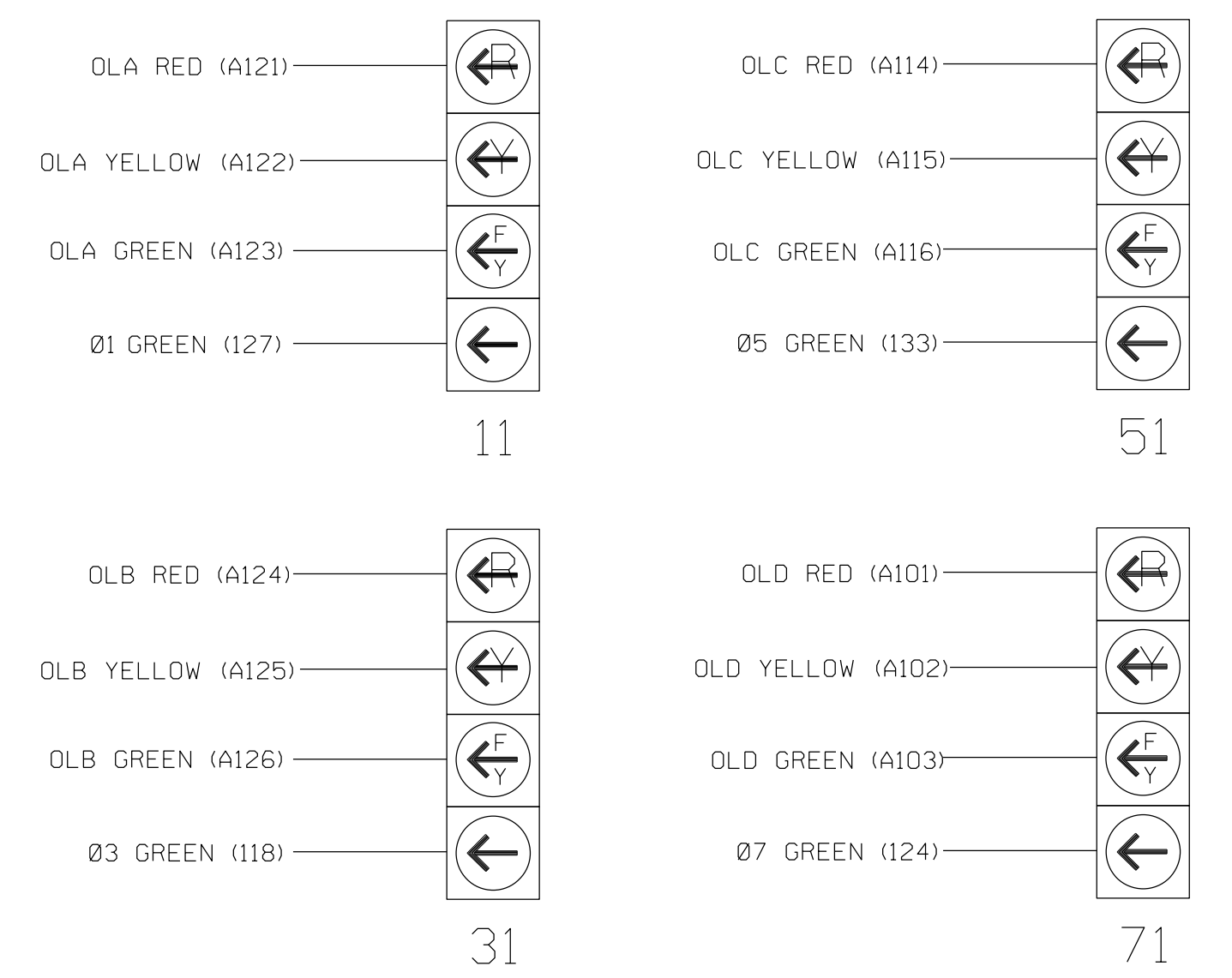
(install resistors as shown below)

VALUE (ohms)	WATTAGE
1.5K - 1.9K	25W (min)
2.0K - 3.0K	10W (min)



### FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 06-0470  
 DESIGNED: Aug 2024  
 SEALED:  
 REVISED: N/A

### Electrical Detail - Sheet 1 of 2

Prepared For:  
  
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 Charlotte, NC 28262  
 NC License No. F-1524 (704) 332-2289  
 www.DRMP.com

SR 1003 (Camden Road)  
 at  
 SR 1112 (Rockfish Road)  
 Division 6 Cumberland County Hope Mills  
 PLAN DATE: August 2024 REVIEWED BY: LM Moon  
 PREPARED BY: MR Stanley/DJW RKA PROJ. NO.: 2400555

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL  
  
 Lisa Moon 10/3/2024  
 DATE