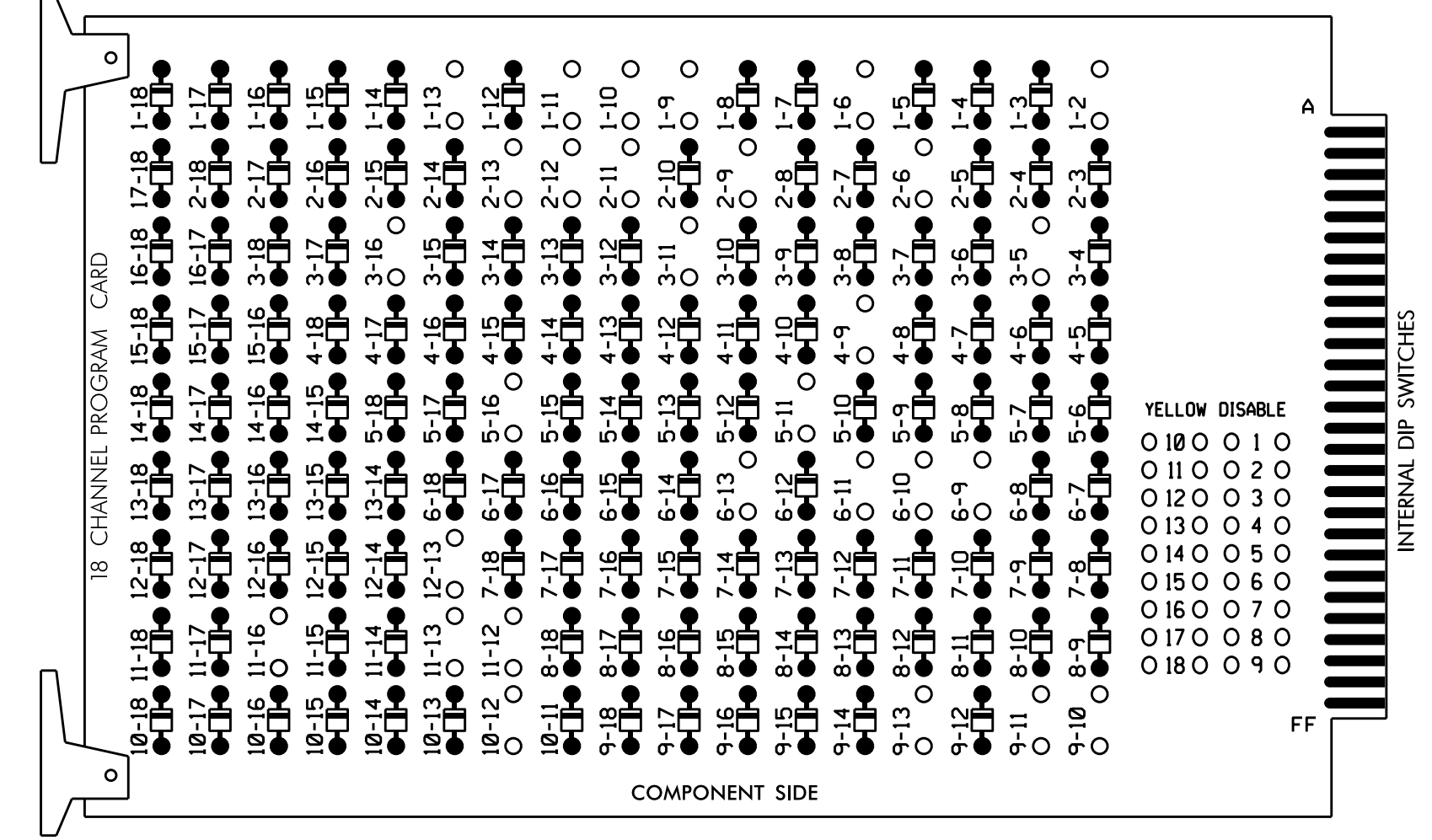


**EDI MODEL 2018ECL-NC CONFLICT MONITOR PROGRAMMING DETAIL**

(remove jumpers and set switches as shown)

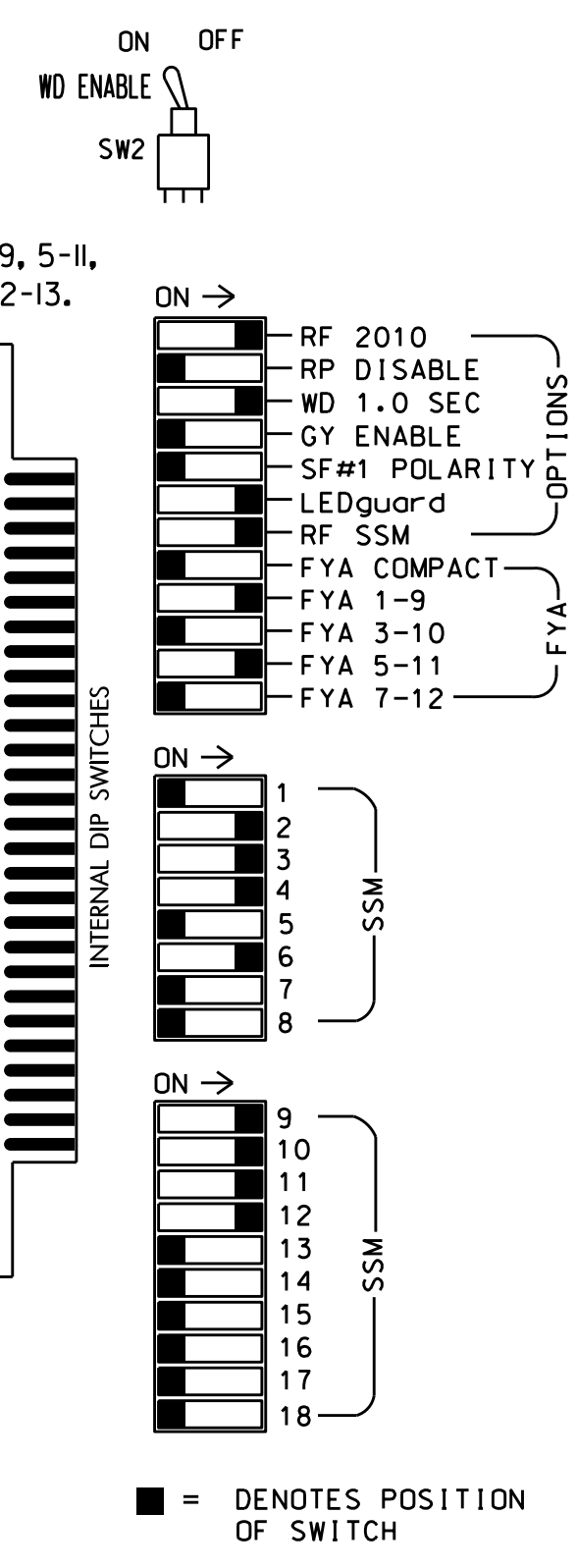
REMOVE DIODE JUMPERS 1-2, 1-6, 1-9, 1-10, 1-11, 1-13, 2-6, 2-9, 2-11, 2-12, 2-13, 3-5, 3-11, 3-16, 4-9, 5-11, 5-16, 6-9, 6-10, 6-11, 6-13, 9-10, 9-11, 9-13, 10-12, 11-12, 11-13, 11-16, and 12-13.



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.
- Connect serial cable from conflict monitor to comm. port 1 of 2070 controller. Ensure conflict monitor communicates with 2070.



**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	OLG	2 PED	3	4	4 PED	OLH	6	6 PED	7	8	3 PED	OLA	OLB	OLE	OLC	OLD	SPARE							
SIGNAL HEAD NO.	63,64	21,22, 23	P21, P22	31	32	33	41	42	43	NU	24	61,62	NU	NU	NU	P31, P32	63,64	11	33	BLANK OUT SIGN	24	51,52	NU	
RED		128		116	116		101	101				134				A121			*	A114				
YELLOW	*	129		117	117		102	102			*	135							*					
GREEN		130		118	118		103	103				136								A113				
RED ARROW				116			101								A124								A101	
YELLOW ARROW				117			102								A122	A125	A125					A115	A102	
FLASHING YELLOW ARROW															A123							A116		
GREEN ARROW	127			118	118		103	103				133			A126	A126							A103	
Hand				113																		110		
Walking Person				115																			112	

NU = Not Used

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

★ See pictorial of head wiring in detail this sheet.

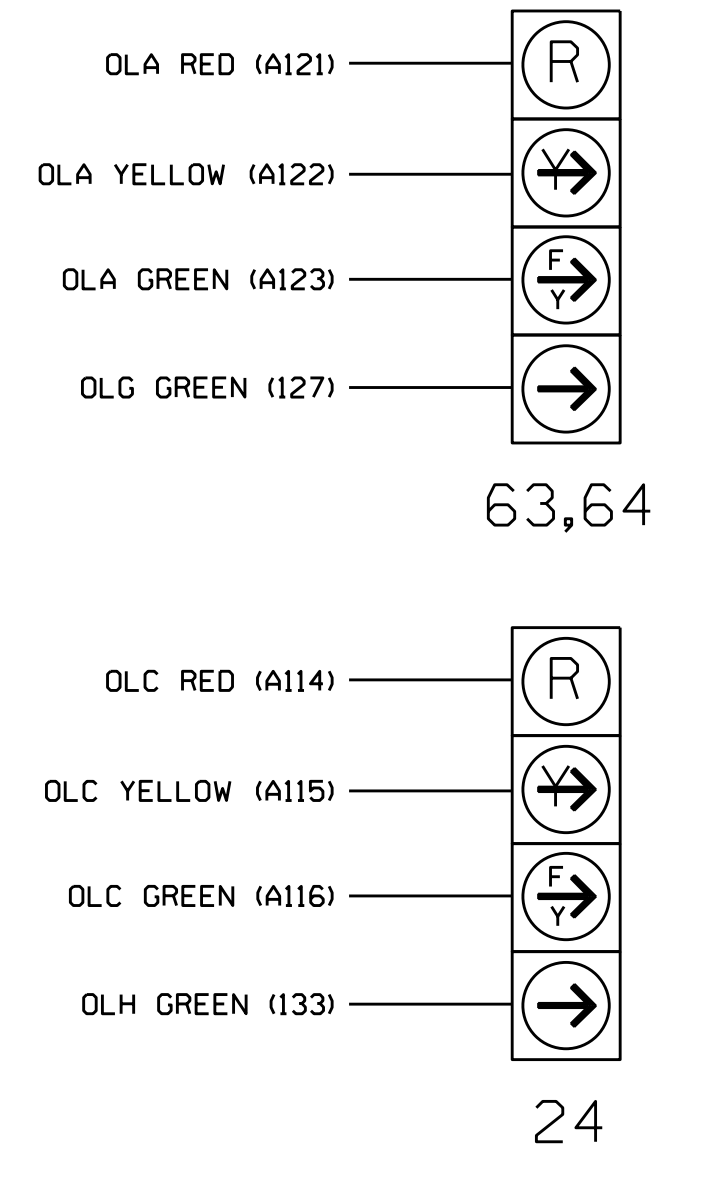
NOTE: Output assignments for load switches S1, S7, S12 and AUX S3 have been remapped. See sheet 3 for details.

Load switch AUX S3 used for blankout sign control. See sheet 3 for wiring details.

NOTE: Install a white flash block for Overlap E to prevent Sign A from flashing during cabinet or controller flash.

**FYA SIGNAL WIRING DETAIL**

(wire signal heads as shown)



63,64

24

**INPUT FILE POSITION LAYOUT**

(front view)

FILE	U	1	2	3	4	5	6	7	8	9	10	11	12	13	14
"I"	U	∅ 1 1A	∅ 1 1B	∅ 2 2A	∅ 2 2C	∅ 3 3A	∅ 3 3B	∅ 4 4A	∅ 4 4B	SYS. DET. S1	SYS. DET. S2	∅ 2 PED DC ISOLATOR	NOT USED	FS DC ISOLATOR	
	L	NOT USED	NOT USED	∅ 2 2B	NOT USED	NOT USED	∅ 4	∅ 4	∅ 4	SYS. DET. S2	SYS. DET. S1	NOT USED	∅ 3 PED DC ISOLATOR	ST DC ISOLATOR	
"J"	U	∅ 5 5A	∅ 5 5B	∅ 6 6A	S 6B	S	S	SYS. DET. S3	SYS. DET. S4	SYS. DET. S5	SYS. DET. S6	S	S	S	S
	L	NOT USED	NOT USED	∅ 6 6B	S	S	S	SYS. DET. S4	SYS. DET. S3	SYS. DET. S6	SYS. DET. S5	S	S	S	S

EX.: 1A, 2A, ETC. = LOOP NO.'S

FS = FLASH SENSE  
ST = STOP TIME

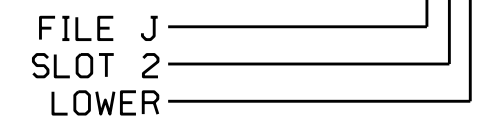
**INPUT FILE CONNECTION & PROGRAMMING CHART**

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	DETECTOR NO.	NEMA PHASE	DELAY TIME	EXTEND (STRETCH) TIME
1A	TB2-1,2	I1U	56	1	1		
1B	TB2-5,6	I2U	39	3	1	15	
2A	TB2-9,10	I3U	63	5	2		
2B	TB2-11,12	I3L	76	6	2		
2C	TB4-1,2	I4U	47	7	2		
3A	TB4-5,6	I5U	58	9	3	3	
3B	TB4-9,10	I6U	41	11	3		
4A	TB6-1,2	I7U	65	13	4		
4B	TB6-3,4	I7L	78	14	4		
5A	TB3-1,2	J1U	55	19	5		
5B	TB3-5,6	J2U	40	21	5		
6A	TB3-9,10	J3U	64	23	6		
6B	TB3-11,12	J3L	77	24	6		
* S1	TB6-9,10	I9U	60	17	SYS		
* S2	TB6-11,12	I9L	62	18	SYS		
* S3	TB7-1,2	J7U	66	33	SYS		
* S4	TB7-3,4	J7L	79	34	SYS		
* S5	TB7-9,10	J9U	59	37	SYS		
* S6	TB7-11,12	J9L	61	38	SYS		
PED PUSH BUTTONS							
P21,P22	TB8-4,6	I12U	67	PED 2	2 PED		
P31,P32	TB8-8,9	I13L	70	PED 8	3 PED		

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

\* System Detector only. Remove the vehicle phase assigned to this detector in the default programming.

**INPUT FILE POSITION LEGEND: J2L**



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 05-2036  
DESIGNED: January 2023  
SEALED: 01-03-23  
REVISED: N/A

**EQUIPMENT INFORMATION**

CONTROLLER.....2070LX  
CABINET.....332 W/ AUX  
SOFTWARE.....SE-PAC2070  
CABINET MOUNT.....BASE  
OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE  
LOAD SWITCHES USED.....S1,S2,S3,S4,S5,S7,S8,S12,AUX S1, AUX S2,AUX S3\*,AUX S4,AUX S5  
PHASES USED.....1,2,2PED,3,3PED,4,5,6  
OVERLAP A.....4+6  
OVERLAP B.....1  
OVERLAP C.....2+3  
OVERLAP D.....5  
OVERLAP E.....3+4+5  
OVERLAP G.....6  
OVERLAP H.....3

\* Load switch used for blankout sign control only.

**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 controller to start up in phase 2 and 6 Green.
- Enable simultaneous gap-out feature for all phases.
- Program phases 2 and 6 for volume density operation.
- The cabinet and controller are part of the Raleigh Signal System.

Electrical Detail - Final Design (TMP Phase III & Final)  
Sheet 1 of 4

	ELECTRICAL AND PROGRAMMING DETAILS FOR: SR 2000 (Falls of Neuse Rd.) at I-540 WB Ramps and Falls Valley Drive		DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
	Prepared In the Offices of: 	Division 5 Wake County Raleigh PLAN DATE: January 2023 REVIEWED BY: PREPARED BY: James Peterson REVIEWED BY:	
750 N. Greenfield Pkwy, Garner, NC 27529		REVISIONS: _____ INIT. DATE _____ _____ INIT. DATE _____ _____ INIT. DATE _____	DocuSigned by: D. Todd Joyce 01/11/2023 DATE _____ SIG. INVENTORY NO. 05-2036

I:\1111\2023\_13\43  
 S:\1111\2023\13\43\SIG\13\SIGNAL\WORK\HGR\05\G.M.Peterson\052036\_smc.ele\_20230307.dgn  
 J.Peterson