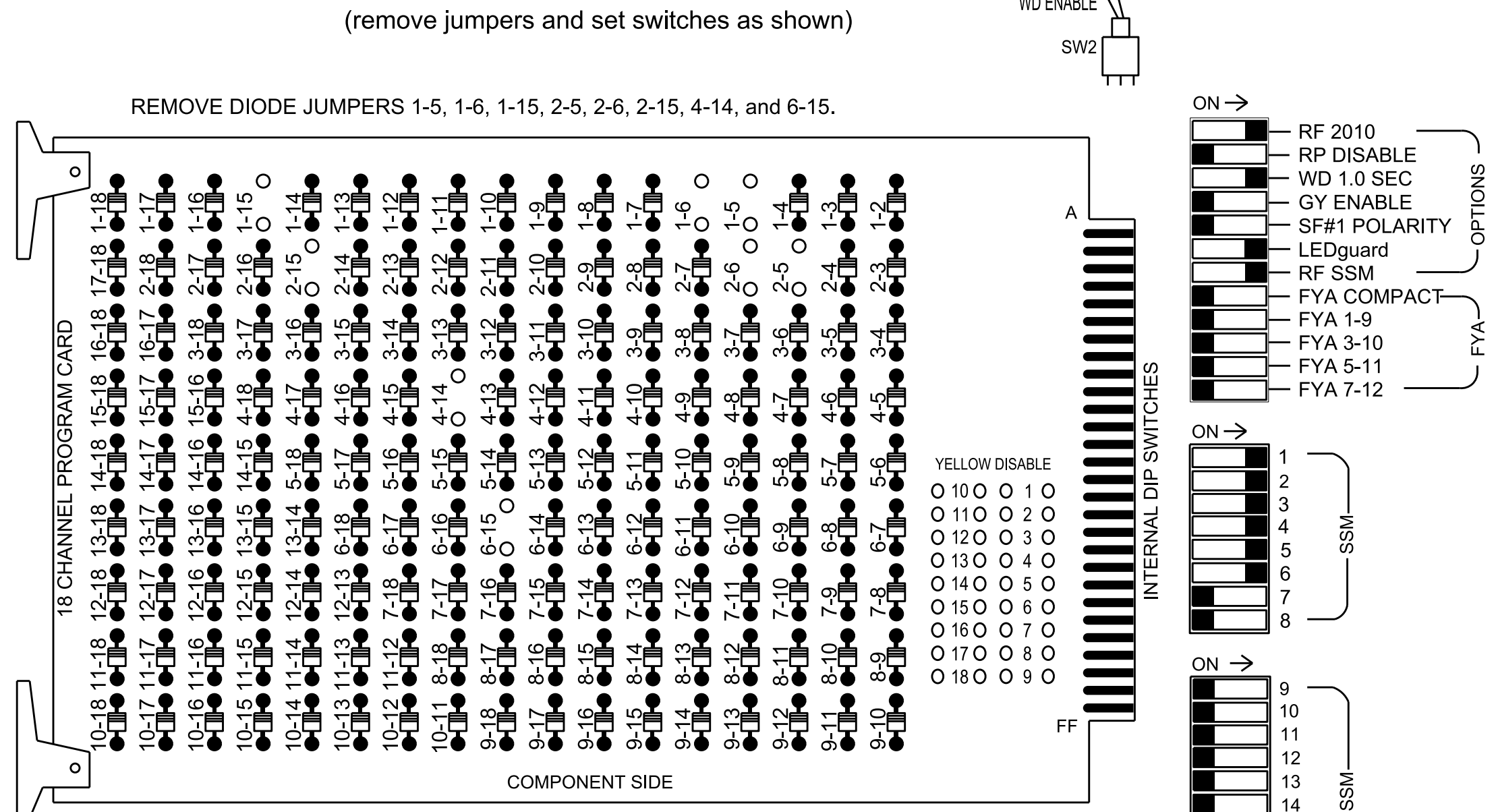


**18 CHANNEL CONFLICT MONITOR PROGRAMMING DETAIL**  
(remove jumpers and set switches as shown)



- 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.
  - 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 plan.
- 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.

**EQUIPMENT INFORMATION**

Controller.....2070LX  
 Cabinet.....332 w/ Aux  
 Software.....Q-Free MAXTIME  
 Cabinet Mount.....18 With Aux. Output File  
 Load Switches Used.....S1, S2, S4, S5, S6, S7, S8, S9  
 Phases Used.....1, 2, 3, 4, 4PED, 5, 6, 6PED  
 Overlaps.....NONE

**COUNTDOWN PEDESTRIAN SIGNAL OPERATION**

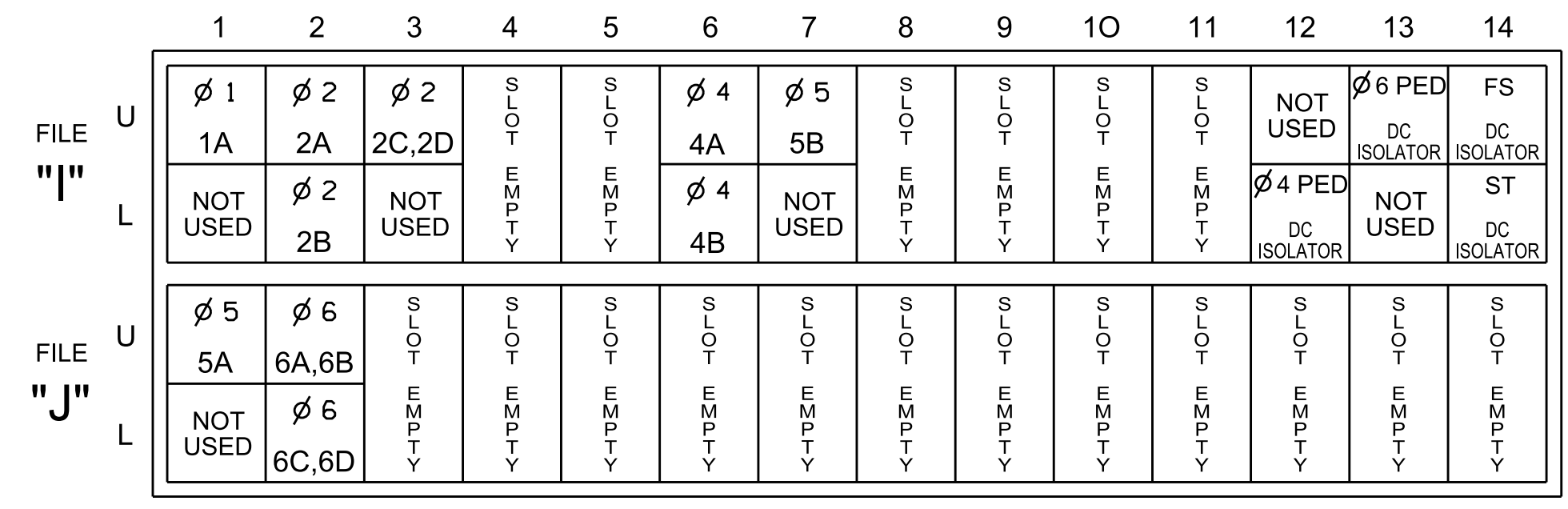
Countdown Ped Signals are required to display timing only during Ped Clearance Interval. Consult Ped Signal Module user's manual for instructions on selecting this feature.

**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	32	21,22	NU	31	32,33	41	41,42	P41, P42	42	51	61,62	P61, P62	NU	NU	NU	NU	NU
RED			128	116	116	101	101					134						
YELLOW			129	117	117	102	102					135						
GREEN			130	118	118	103	103					136						
RED ARROW	125											131						
YELLOW ARROW	126	126								132	132							
GREEN ARROW	127	127		118		103				133	133							
Hand icon										104			119					
Walking person icon										106			121					

NU = Not Used

**INPUT FILE POSITION LAYOUT**  
(front view)

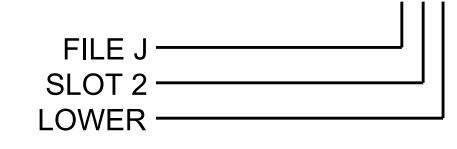


**INPUT FILE CONNECTION & PROGRAMMING CHART**

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	TB2-1,2	I1U	56	18	1	1			X		X	
2A	TB2-5,6	I2U	39	1	2	2		2	X		X	
2B	TB2-7,8	I2L	43	5	3	2		2	X		X	
2C,2D	TB2-9,10	I3U	63	29	4	2			X		X	
4A	TB4-9,10	I6U	41	3	8	4			X		X	
4B	TB4-11,12	I6L	45	7	9	4			X		X	
5A	TB3-1,2	J1U	55	17	15	5			X		X	
5B	TB6-1,2	I7U	65	31	10	5	15		X		X	
6A,6B	TB3-5,6	J2U	40	2	16	6		2	X		X	
6C,6D	TB3-7,8	J2L	44	6	17	6			X		X	
PED PUSH BUTTONS												
P41,P42	TB8-5,6	I12L	69	35	4	PED 4						
P61,P62	TB8-7,9	I13U	68	34	6	PED 6						

NOTE: INSTALL DC ISOLATORS IN INPUT FILE SLOTS I12 AND I13.

**INPUT FILE POSITION LEGEND:** J2L



**SPECIAL DETECTOR NOTE**

For zones 1B and 3A, install a video detection system for vehicle detection. Perform installation according to manufacturer's directions and NCDOT engineer-approved mounting locations to accomplish the detection schemes shown on the Signal Design Plans.

**THIS PLAN SUPERSEDES THE PLAN SIGNED AND SEALED ON 9/22/2021.**

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 11-0082T  
 DESIGNED: August 2023  
 SEALED: 12/4/2023  
 REVISED:

Electrical Detail - Temporary Design

Prepared in the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

US 321 (Hickory Blvd.) at SR 1109 (Pinewood Rd.)

Division 11 Caldwell County Granite Falls

PLAN DATE: November 2023 REVIEWED BY: D.T.J.

PREPARED BY: D.J. Craddock REVIEWED BY:

REVISIONS	INIT.	DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

DocuSigned by: *Todd Joyce* 12/05/2023

SIG. INVENTORY NO. 11-0082T

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