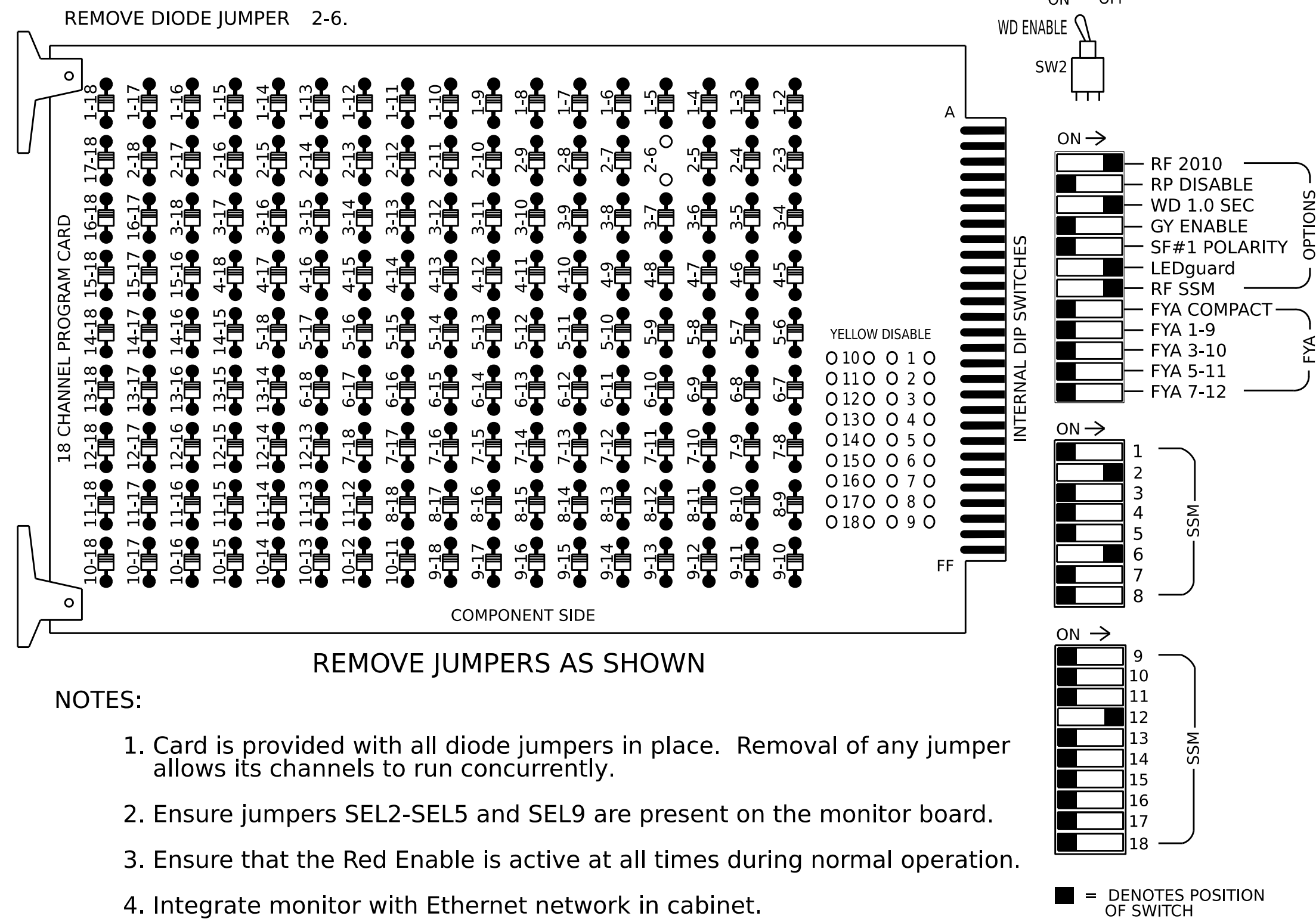


18 CHANNEL IP CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumper and set switches as shown)



NOTES:

1. Card is provided with all diode jumpers in place. Removal of any jumper allows its channels to run concurrently.
2. Ensure jumpers SEL2-SEL5 and SEL9 are present on the monitor board.
3. Ensure that the Red Enable is active at all times during normal operation.
4. Integrate monitor with Ethernet network in cabinet.

NOTES

1. To prevent "flash-conflict" problems, insert red flash program blocks for all vehicle load switches in the output file. The installer shall verify that signal heads flash in accordance with the Signal Plans.
 2. Program controller to start up in phases 2 and 6 Green.
 3. Enable simultaneous gap-out feature for all phases.
 4. The cabinet and controller are part of the Hickory City System.
5. Default the controller before programming this detail.

EQUIPMENT INFORMATION

Controller..... 2070
 Cabinet..... 332 w/ Aux
 Software..... SE-PAC2070
 Cabinet Mount..... Base
 Output File Positions..... 18 With Aux. Output File
 Load Switches Used..... S2, S8, AUX S5
 Phases Used..... 2, 4, 6
 Overlap "A"..... Not Used
 Overlap "B"..... Not Used
 Overlap "C"..... Not Used
 Overlap "D"..... *

*See overlap programming detail on sheet 2

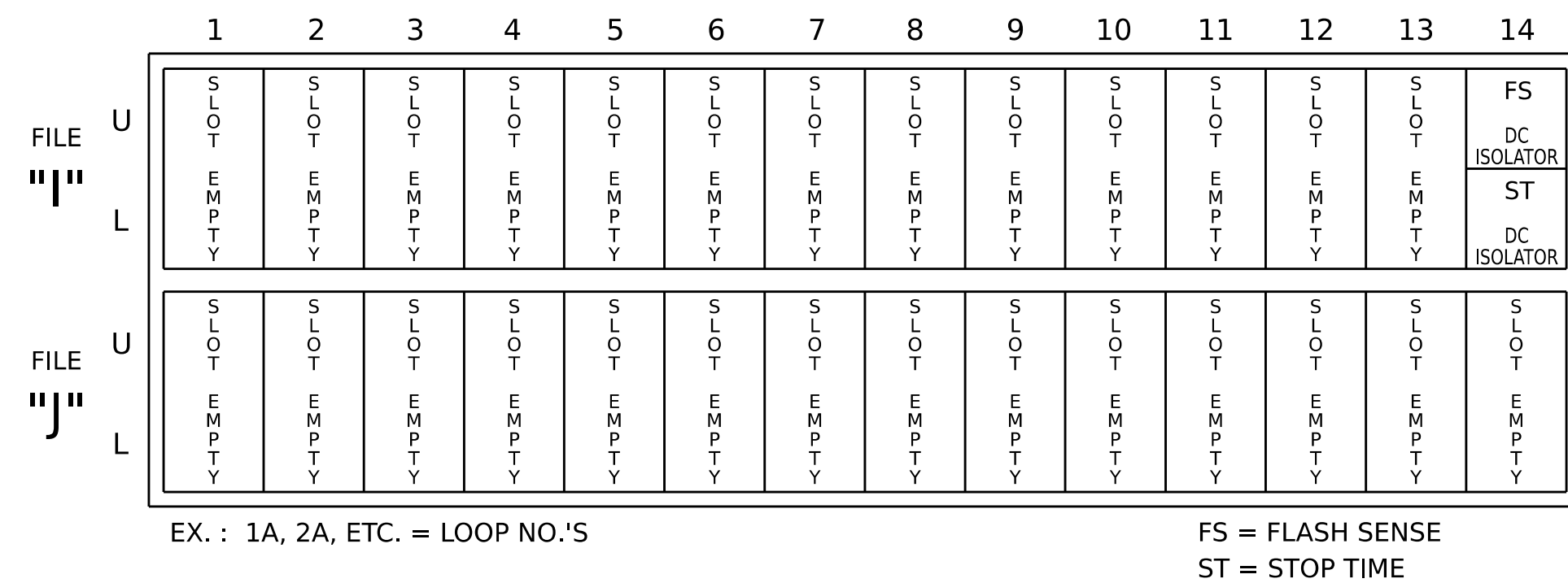
SIGNAL HEAD HOOK-UP CHART

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	OLA	OLB	SPARE	OLC	OLD	SPARE	
SIGNAL HEAD NO.	NU	21,22	NU	NU	NC	NU	NU	61,62	NU	NU	NU	NU	NU	NU	NU	NU	42,43	NU	
RED		128						134											
YELLOW		129						135											
GREEN		130						136											
RED ARROW																		A101	
YELLOW ARROW																			A102
FLASHING YELLOW ARROW																			
GREEN ARROW																			A103
Hand icon																			
Person icon																			

NU = Not Used
 NC = Not Connected

INPUT FILE POSITION LAYOUT

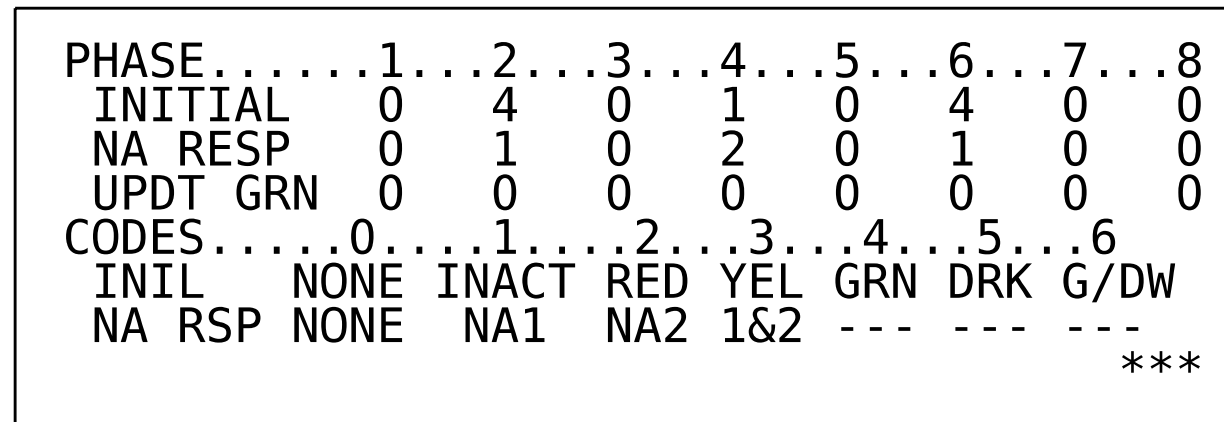
(front view)



INIT & N.A. RESP PROGRAMMING DETAIL

(program controller as shown below)

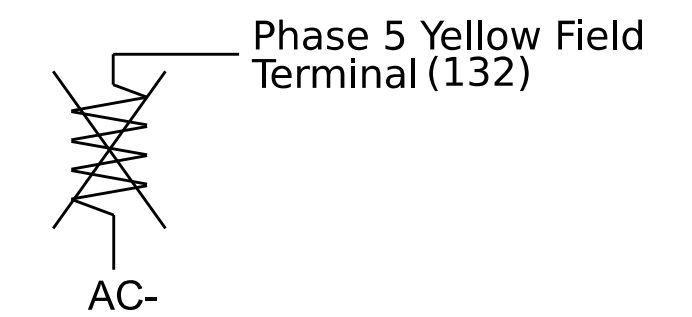
1. From Main Menu select **3-PHASE DATA**
2. From PHASE DATA Submenu select **4-INIT & N.A. RESP+**



INIT & N.A. RESP PROGRAMMING COMPLETE

LOAD RESISTOR INSTALLATION DETAIL

! If present, remove load resistor below.



FLASHER CIRCUIT MODIFICATION DETAIL

IN ORDER TO INSURE THAT SIGNALS FLASH CONCURRENTLY ON THE SAME APPROACH, MAKE THE FOLLOWING FLASHER CIRCUIT CHANGES:

1. ON REAR OF PDA - REMOVE WIRE FROM TERM. T2-4 AND TERMINATE ON T2-2.
2. ON REAR OF PDA - REMOVE WIRE FROM TERM. T2-5 AND TERMINATE ON T2-3.
3. REMOVE FLASHER UNIT 2.

THE CHANGES LISTED ABOVE TIES ALL PHASES AND OVERLAPS TO FLASHER UNIT 1.

SPECIAL DETECTOR NOTE

Install a multi-zone microwave 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 ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 12-0309T4
 DESIGNED: January 2026
 SEALED: 04/13/2026
 REVISED: N/A

Electrical Detail - (TMP Phase 7A) - Sheet 1 of 2

Prepared in the Offices of:

 Division 12, Catawba County, Hickory
 PLAN DATE: April 2026 REVIEWED BY:
 PREPARED BY: Tim Langston REVIEWED BY:
 REVISIONS: INIT. DATE
 DocuSigned by: *T. Todd Joyce* 04/14/2026
 DATE: _____
 SIG. INVENTORY NO. 12-0309T4

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED