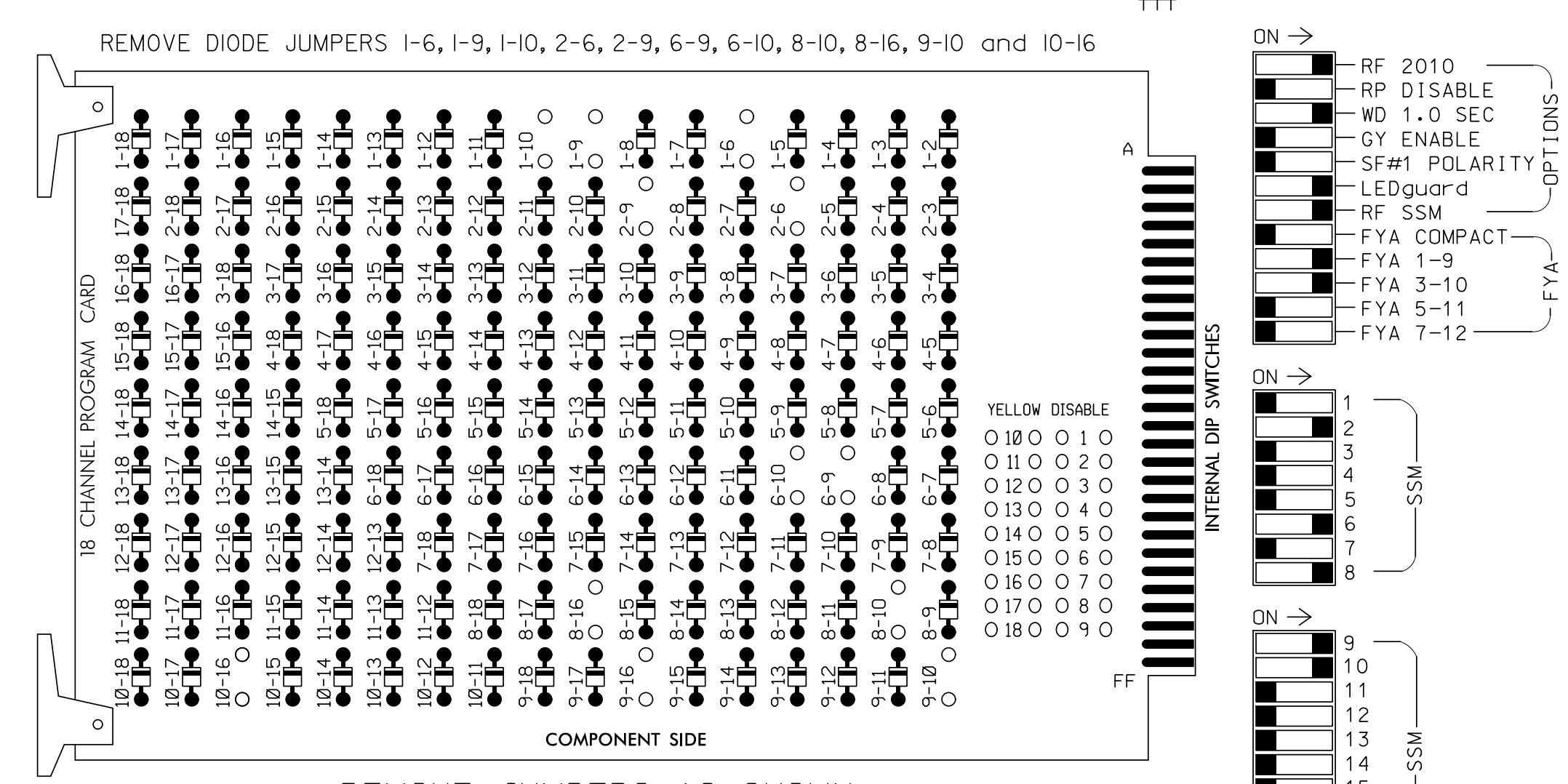


### 18 CHANNEL CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)



### 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.....Base  
 Output File Positions.....18 With Aux. Output File  
 Load Switches Used.....S1, S2, S8, S11, S12, AUX S1, AUX 2  
 Phases Used.....1, 2, 6, 8, 8PED  
 Overlap "1".....\*  
 Overlap "2".....\*  
 Overlap "3".....Not Used  
 Overlap "4".....Not Used  
 \*See overlap programming detail on sheet 2

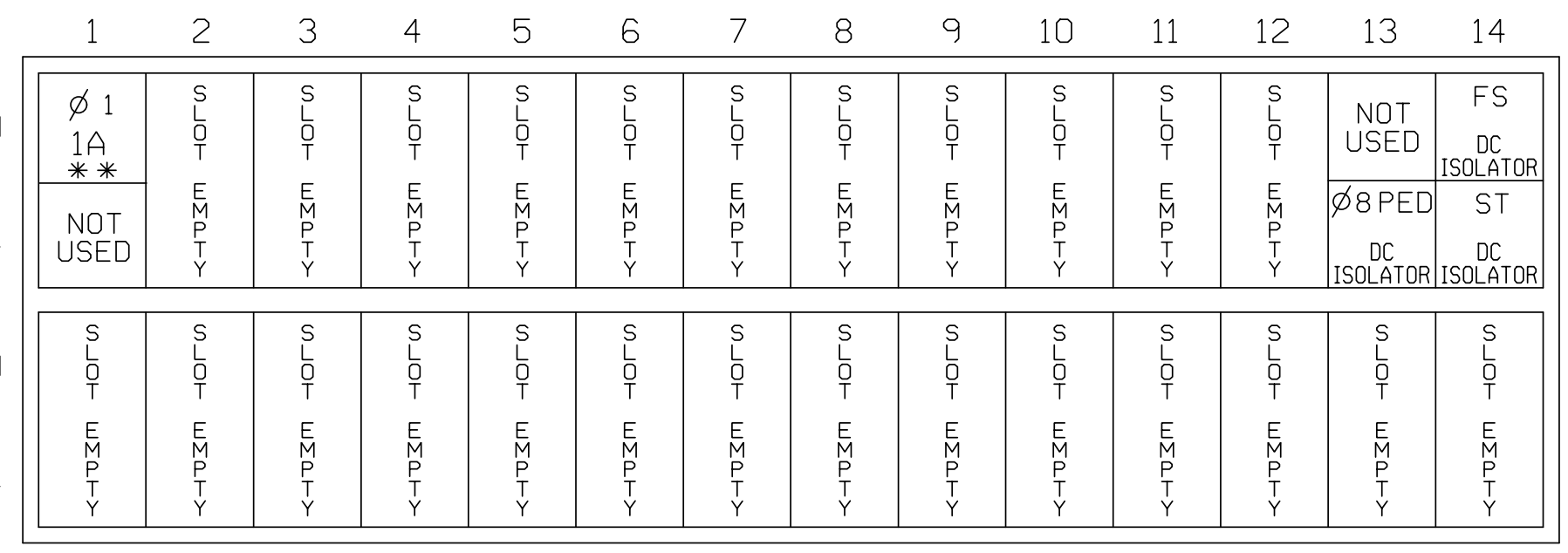
### SIGNAL HEAD HOOK-UP CHART

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	21,22,23	NU	NU	NU	NU	NU	61	62	NU	NU	81	P81, P82	11	82,83	NU	NU	NU
RED		128						134	134						A124			
YELLOW	*	129						135	135									
GREEN		130						136										
RED ARROW												107	A121					
YELLOW ARROW												108	A122	A125				
FLASHING YELLOW ARROW													A123	A126				
GREEN ARROW	127							136			109							
Hand												110						
Person												112						

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  
 ⊗ Wired Input - Do not populate slot with detector card

### INPUT FILE CONNECTION & PROGRAMMING CHART

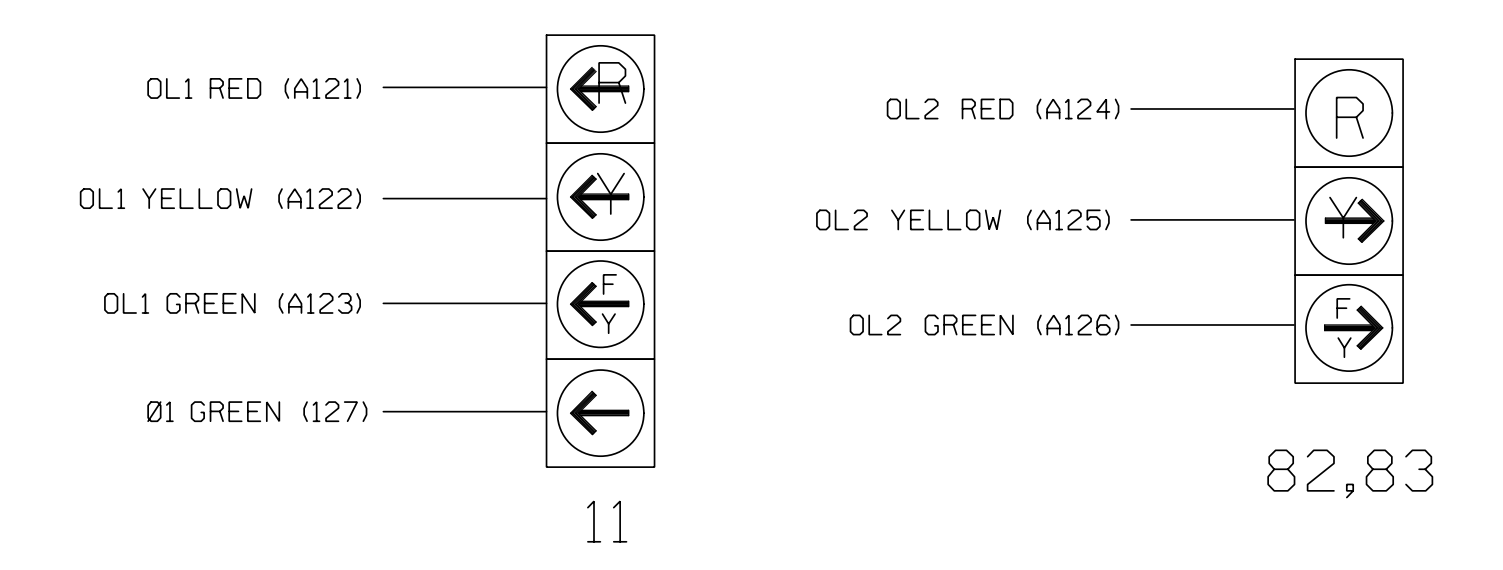
LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT POINT	DETECTOR NO.	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN
1A	**	I1U	56	18	1 ★	1	15		X		X	
				-	29 ★	6	3		X		X	
PED PUSH BUTTONS												
P81,P82	T88-8,9	I13L	70	36	8	PED 8						

NOTE: INSTALL DC ISOLATOR IN INPUT FILE SLOT I13.

★ For the detectors to work as shown on the signal design plan, see the Vehicle Detector Setup Programming Detail for Alternate Phasing on sheet 2.

### FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



### \*\* SPECIAL DETECTOR NOTE

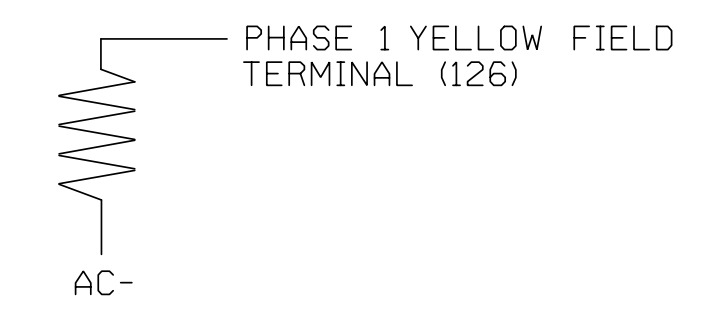
For all detectors, install video detection system for vehicle detection. Perform installation according to manufacture's directions and NCDOT engineer-approved mounting locations to accomplish the detection schemes shown on the Signal Design Plans.

For zone 1A, inputs associated with the typical slots for an NCDOT installation are compatible with time of day instructions located on sheet 2 of this electrical detail.

### LOAD RESISTOR INSTALLATION DETAIL

(install resistor as shown below)

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



PLANS PREPARED IN THE OFFICE OF:  
**KimleyHorn**  
 NC License #F-0102  
 421 Fayetteville Street, Suite 600  
 Raleigh, NC 27601  
 (919) 677-2000

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 10-1325T4  
 DESIGNED: August 2023  
 SEALED: 04/29/2024  
 REVISED: N/A

Signal Upgrade - Temporary Design 4  
 Electrical Detail - Sheet 1 of 2

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

Division 10 Mecklenburg County Matthews

Prepared for: SR 3448 (Pleasant Plains Road) at SR 3440 (McKee Road)

PLAN DATE: August 2023 REVIEWED BY: SL Phillips

PREPARED BY: SP Pennington REVIEWED BY:

REVISIONS: INIT. DATE

4/29/2024

SIG. INVENTORY NO. 10-1325T4