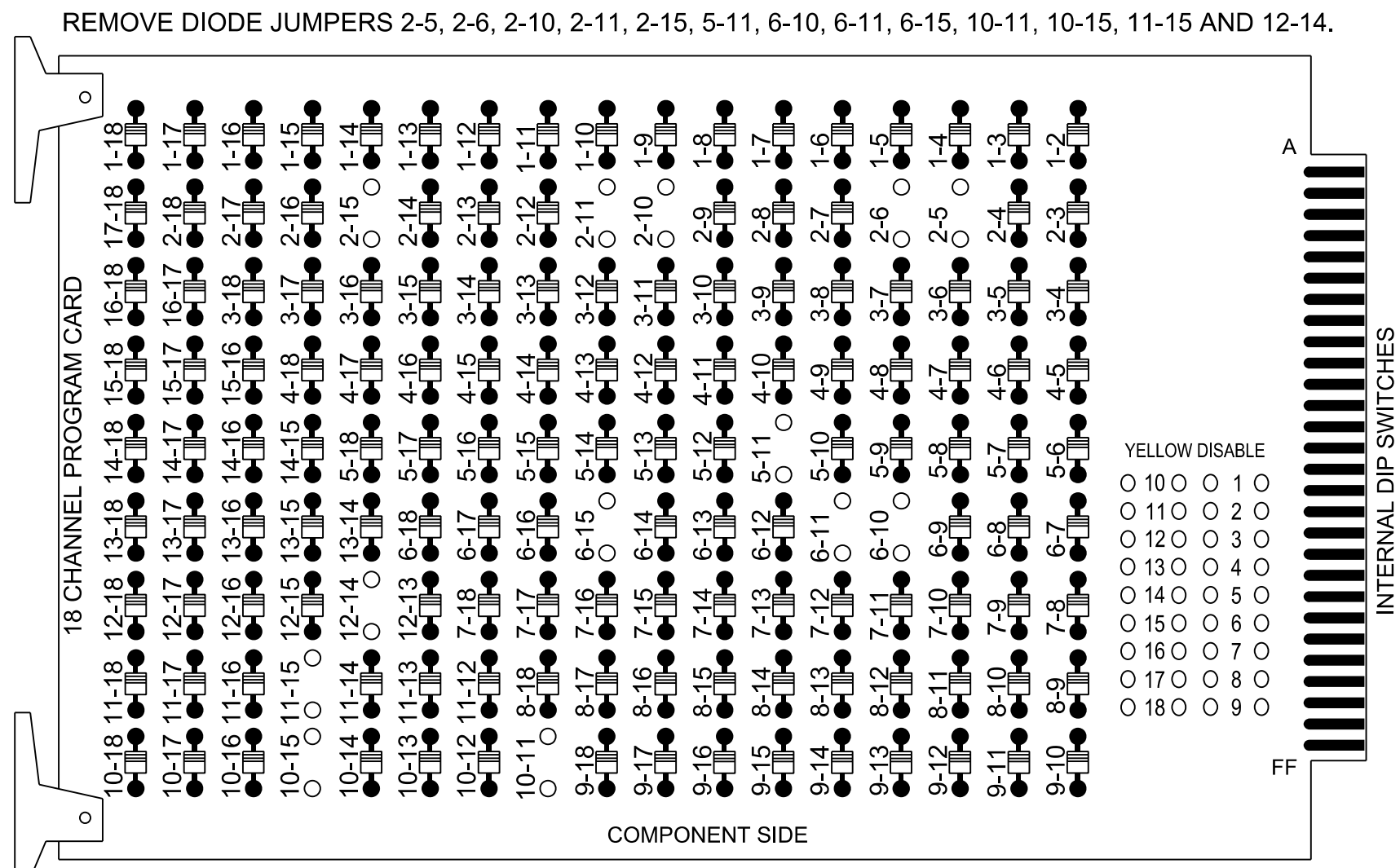


18 CHANNEL IP CONFLICT MONITOR
PROGRAMMING DETAIL

(remove jumpers and set switches 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.

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.....S2, S6, S7, S8, S9, AUX S2,
AUX S4, AUX S5
Phases Used.....2, 4, 4PED, 5, 6, 6PED
Overlap "1".....NOT USED
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.	NU	21	22	NU	NU	NC	P41,P42,P43,P44	51	61	62	P61,P62	NU	NU	NU	63	NU	51	41,42
RED		128	128						134	134					A124			A101
YELLOW		129	129					*	135	135								
GREEN		130								136								
RED ARROW																A114		
YELLOW ARROW															A125		A115	A102
FLASHING YELLOW ARROW															A126		A116	A103
GREEN ARROW			130					133	136									
Hand icon							104				119							
Walking person icon							106				121							

NU = Not Used
NC = Not Connected

* 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)

FILE	1	2	3	4	5	6	7	8	9	10	11	12	13	14
U	S	S	S	S	S	Ø 4	S	S	S	S	S	NOT USED	Ø 6 PED	FS
L	E	E	E	E	E	4A	E	E	E	E	E	DC ISOLATOR	DC ISOLATOR	DC ISOLATOR
U	Y	Y	Y	Y	Y	NOT USED	Y	Y	Y	Y	Y	DC ISOLATOR	DC ISOLATOR	DC ISOLATOR
L	Ø 5	S	S	S	S	S	S	S	S	S	S	S	S	S
U	★ 5A	E	E	E	E	E	E	E	E	E	E	E	E	E
L	NOT USED	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

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

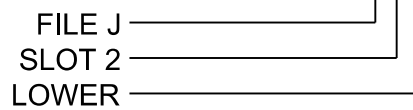
FS = FLASH SENSE
ST = STOP TIME

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
4A	TB4-9,10	I6U	41	3	8	4	10.0		X		X	
5A	TB3-1,2	J1U	55	17	16	5	15.0		X		X	
				-	31	2	3.0		X		X	X
PED PUSH BUTTONS												
P41,P42,P43,P44	TB8-5,6	I12L	69	35	4	PED 4						
P61,P62	TB8-7,9	I13U	68	34	6	PED 6						

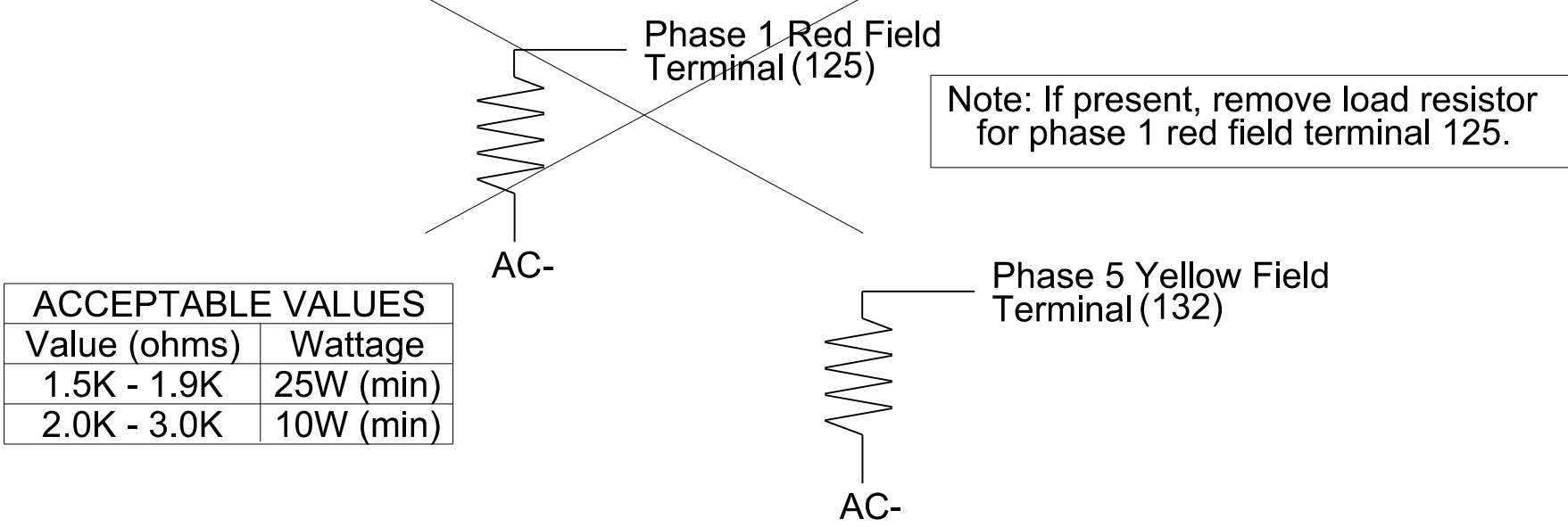
★ For the detectors to work as shown on the signal design plan, see the Vehicle Detector Setup Programming Detail for Alternate Phasing on Sheet 2.

INPUT FILE POSITION LEGEND: J2L



LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown)



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.

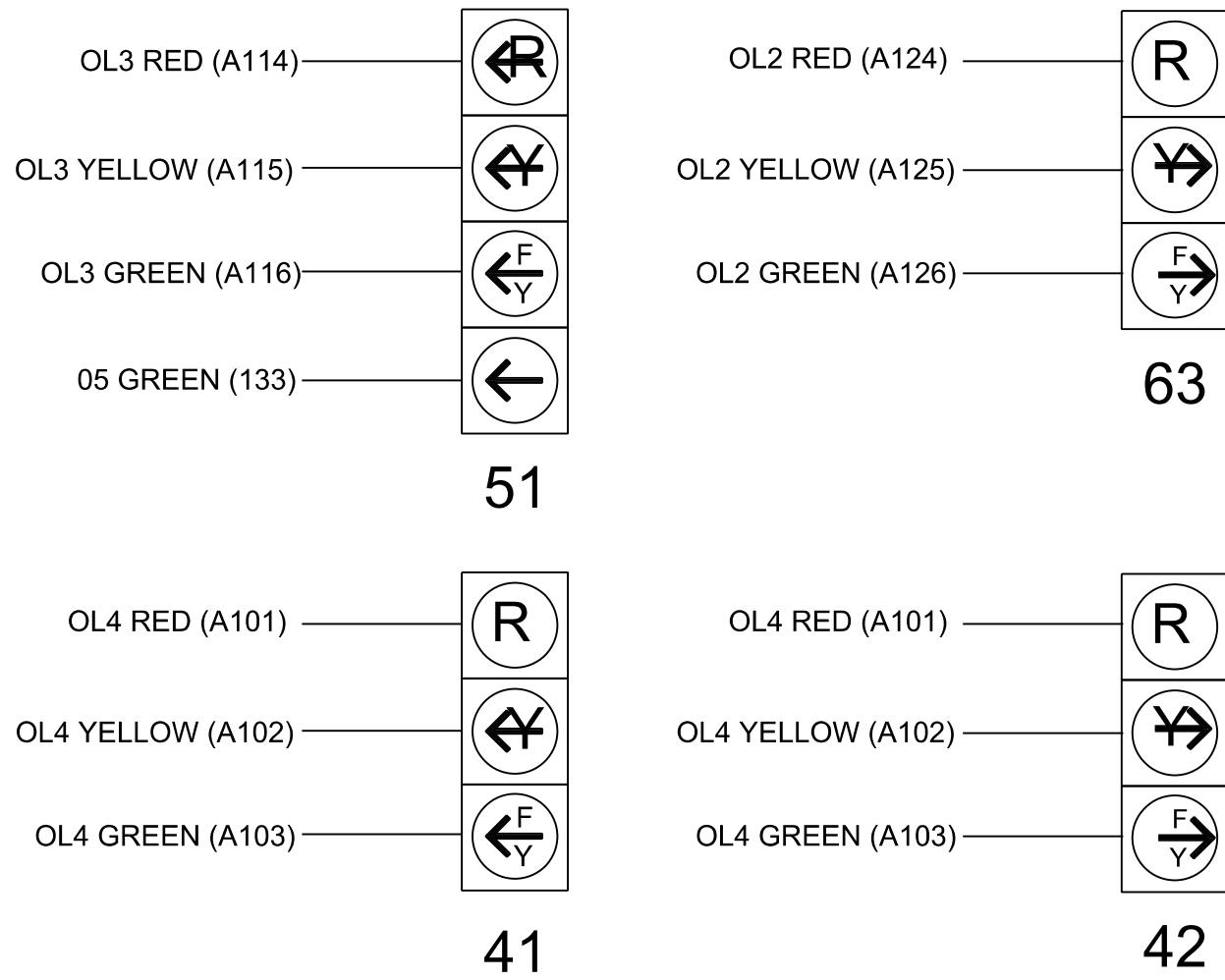
★ ★ SPECIAL DETECTOR NOTE

For zones 2A, 5A, and 6A 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.

For zone 5A inputs associated with the typical slots for a NCDOT installation are compatible with time of day instructions located on sheet 2 of this electrical details.

FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 05-2103T2
DESIGNED: June 2026
SEALED: June 9, 2026
REVISED:

SIGNAL UPGRADE - TEMPORARY DESIGN 2
(CONSTRUCTION PHASE I STEPS 7-8)
ELECTRICAL DETAIL - SHEET 1 OF 2

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

ELECTRICAL AND PROGRAMMING DETAILS FOR: Prepared for the Offices of: 750 N. Greenfield Pkwy, Garner, NC 27529	SR 2052 (ROGERS RD) AT HERITAGE BRANCH RD		SEAL NORTH CAROLINA PROFESSIONAL ENGINEER DAVID T. SEARS 000103282516 6/9/2026 SIGNATURE DATE SIG. INVENTORY NO. 05-2103T2	
	DIVISION 5	WAKE COUNTY		WAKE FOREST
	PLAN DATE: JUNE 2026	REVIEWED BY: DSEARS		
	PREPARED BY: WPJONES	REVIEWED BY:		
REVISIONS		INIT.	DATE	