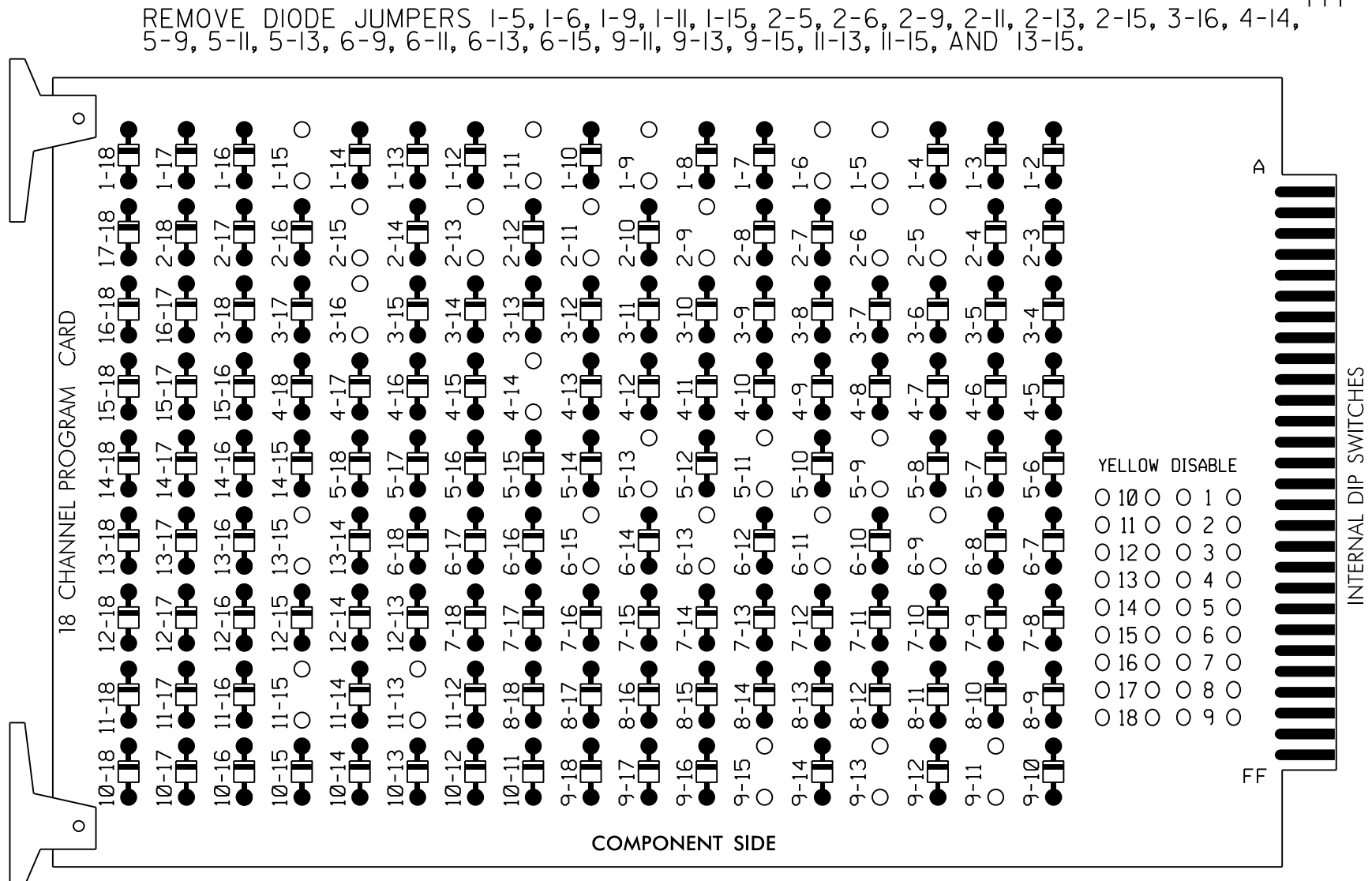


18 CHANNEL IP CONFLICT MONITOR PROGRAMMING DETAIL

(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 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 Plans.
- Program controller to start up in phase 2 Green No Walk and 6 Green No Walk.
- The cabinet and controller are part of the Wake Forest Signal System.

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	3 PED	OL1	OL2	SPARE	OL3	OL4	SPARE
SIGNAL HEAD NO.	11 ★	32	21,22	P21, P22	22	31	32	33	41	42	P41, P42	42	51 ★	61,62	P61, P62	NU	NU	P31, P32
RED		*	128		116	116		101	101		*		134					
YELLOW			129		117	117		102	102				135					
GREEN			130		118	118		103	103				136					
RED ARROW						116									A121		A114	
YELLOW ARROW		126		117		117				132					A122		A115	
FLASHING YELLOW ARROW															A123		A116	
GREEN ARROW	127	127		118	118		118	103			133	133						
Hand icon				113						104			119		110			
Walking person icon				115						106			121		112			

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.

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,S3,S4,S5,S6,S7,S8,S9,S12
AUX S1,AUX S4
PHASES USED.....1,2,2PED,3,3PED,4,4PED,5,6,6PED
OVERLAP "1".....*
OVERLAP "2".....NOT USED
OVERLAP "3".....*
OVERLAP "4".....NOT USED

* See overlap programming detail on sheet 2

INPUT FILE POSITION LAYOUT

(front view)

FILE "I"	1	2	3	4	5	6	7	8	9	10	11	12	13	14
U	∅ 1	∅ 1	∅ 2	∅ 3	∅ 3	∅ 4	∅ 5	SYS. DET. S1	∅ 5	∅ 5	∅ 5	∅ 2 PED	∅ 6 PED	FS
L	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	SYS. DET. S2	NOT USED	NOT USED	NOT USED	DC ISOLATOR	DC ISOLATOR	DC ISOLATOR
U	∅ 5	∅ 6	∅ 7	∅ 8	∅ 9	∅ 10	∅ 11	∅ 12	∅ 13	∅ 14	∅ 15	∅ 16	∅ 17	∅ 18
L	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED

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

FS = FLASH SENSE
ST = STOP TIME

INPUT FILE CONNECTION & PROGRAMMING CHART

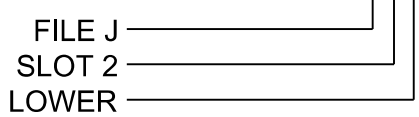
LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT POINT	DETECTOR NO.	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	QUEUE	CALL	DELAY DURING GREEN
1A	TB2-1,2	I1U	56	18	1 ★	1	15	---	X	-	-	X	-
1B	TB2-5,6	I2U	39	1	2	1	15	---	X	-	-	X	-
2A	TB2-9,10	I3U	63	29	4	2	---	---	X	X	-	X	-
3A	TB4-5,6	I5U	58	20	7	3	3	---	X	-	-	X	-
3B	TB4-9,10	I6U	41	3	8	3	---	---	X	-	-	X	-
4A	TB6-1,2	I7U	65	31	10	4	---	---	X	-	-	X	-
5A	TB3-1,2	J1U	55	17	15 ★	5	15	---	X	-	-	X	-
5B	TB7-9,10	J9U	59	21	27	5	15	---	X	-	-	X	-
6A	TB3-5,6	J2U	40	2	16	6	---	---	X	X	-	X	-
*S1	TB6-9,10	I9U	60	22	13	-	---	---	-	-	-	-	-
*S2	TB6-11,12	I9L	62	24	14	-	---	---	-	-	-	-	-
PED PUSH BUTTONS													
P21,P22	TB8-4,6	I12U	67	33	2	PED 2							
P41,P42	TB8-5,6	I12L	69	35	4	PED 4							
P61,P62	TB8-7,9	I13U	68	34	6	PED 6							
P31,P32	TB8-8,9	I13L	70	36	8	PED 3							

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

* System detector only. Remove any assigned vehicle phase.

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

INPUT FILE POSITION LEGEND: J2L

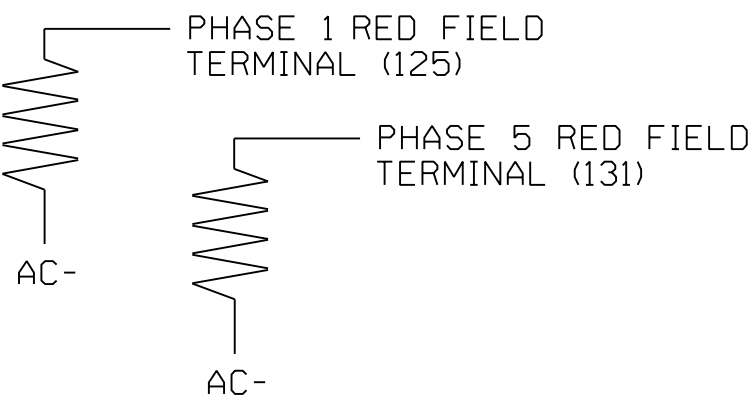


THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 05-2125
DESIGNED: March 2025
SEALED: March 10, 2025
REVISED: N/A

LOAD RESISTOR INSTALLATION DETAIL

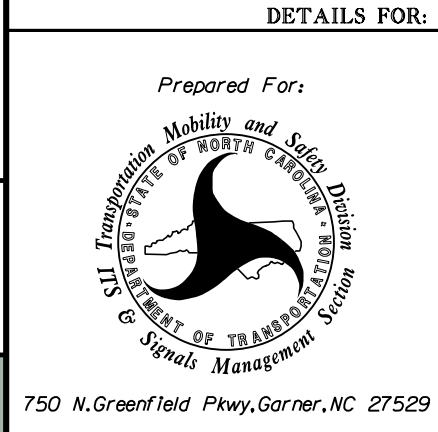
(install resistors as shown)

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



SIGNAL UPGRADE - ELECTRICAL DETAIL - SHEET 1 OF 3

ELECTRICAL AND PROGRAMMING DETAILS FOR:



US 1A (S. MAIN ST) AT SR 2052 (ROGERS RD)/WAKE FOREST MIDDLE SCHOOL	
DIVISION 5	WAKE COUNTY WAKE FOREST
PLAN DATE: MARCH 2025	REVIEWED BY: DTSEARS
PREPARED BY: WPJONES	REVIEWED BY:
REVISIONS	INIT. DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

