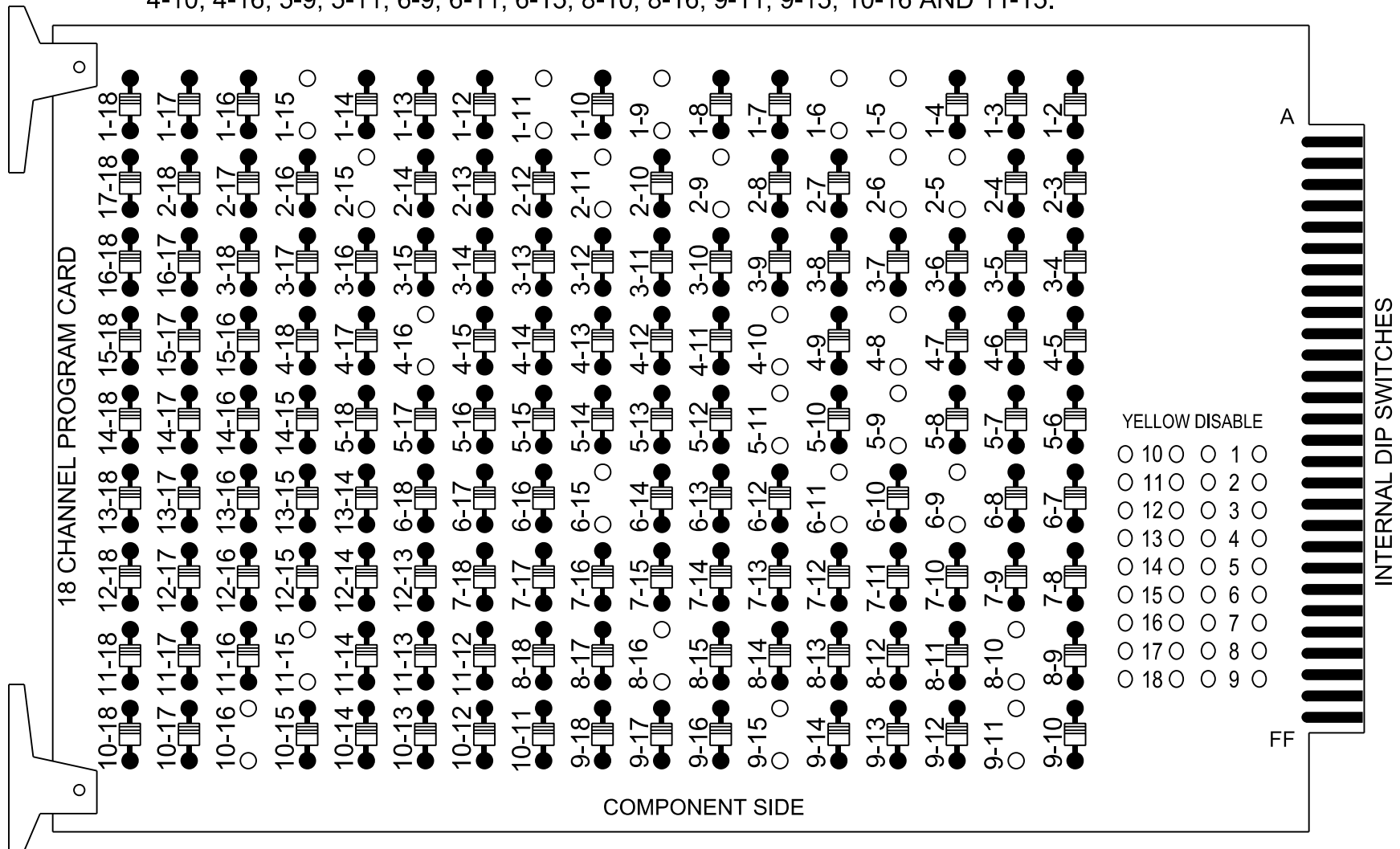


18 CHANNEL CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

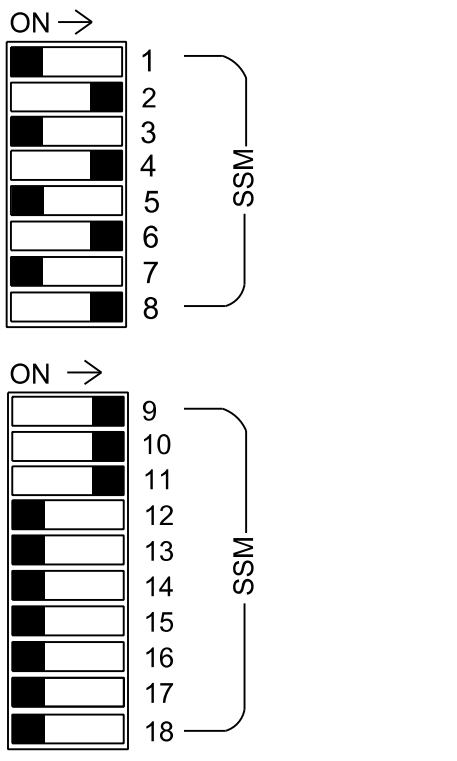
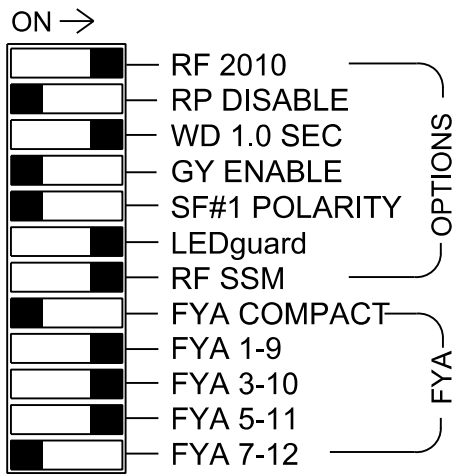
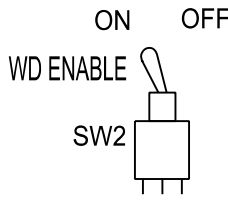
REMOVE DIODE JUMPERS 1-5, 1-6, 1-9, 1-11, 1-15, 2-5, 2-6, 2-9, 2-11, 2-15, 4-8, 4-10, 4-16, 5-9, 5-11, 6-9, 6-11, 6-15, 8-10, 8-16, 9-11, 9-15, 10-16 AND 11-15.



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.



■ = DENOTES POSITION OF SWITCH

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 phases 4 and 8 for Dual Entry.
- Program controller to start up in phase 2 Green No Walk and phase 6 Green No Walk.
- Program phase 4 and 8 for Simultaneous Start.
- 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, S5, S7, S8, S9, S11, S12, AUX S1, AUX S2, AUX S4
Phases Used.....1, 2, 4, 5, 6, 6PED, 8, 8PED
Overlap "1".....*
Overlap "2".....*
Overlap "3".....*
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	NU	NU	41,42	NU	51★	61,62	P61, P62	NU	82,83, 84	P81, P82	11★	81★	NU	51★	NU	NU
RED		128			101			134			107							
YELLOW	★	129			102		★	135			108							
GREEN		130			103			136			109							
RED ARROW													A121	A124		A114		
YELLOW ARROW													A122	A125		A115		
FLASHING YELLOW ARROW													A123	A126		A116		
GREEN ARROW	127						133											
Hand icon										119		110						
Walking person icon										121		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)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
FILE "I"	Ø 1★ 1A	S OT	S OT	S OT	S OT	S OT	S OT	S OT	S OT	S OT	S OT	S OT	Ø 6 PED DC ISOLATOR	FS DC ISOLATOR
	NOT USED	E MPTY	E MPTY	E MPTY	E MPTY	E MPTY	E MPTY	E MPTY	E MPTY	E MPTY	E MPTY	E MPTY	Ø 8 PED DC ISOLATOR	ST DC ISOLATOR
FILE "J"	Ø 5★ 5A	S OT	S OT	S OT	S OT	S OT	S OT	S OT	S OT	S OT	S OT	S OT	S OT	S OT
	NOT USED	E MPTY	E MPTY	E MPTY	E MPTY	E MPTY	E MPTY	E MPTY	E MPTY	E MPTY	E MPTY	E MPTY	E MPTY	E MPTY

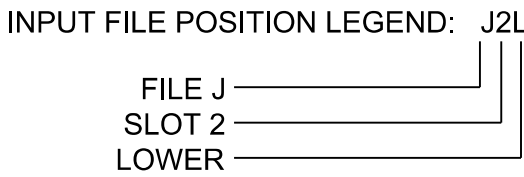
EX. : 1A, 2A, ETC. = LOOP NO.'S

FS = FLASH SENSE
ST = STOP TIME

INPUT FILE CONNECTION & PROGRAMMING CHART

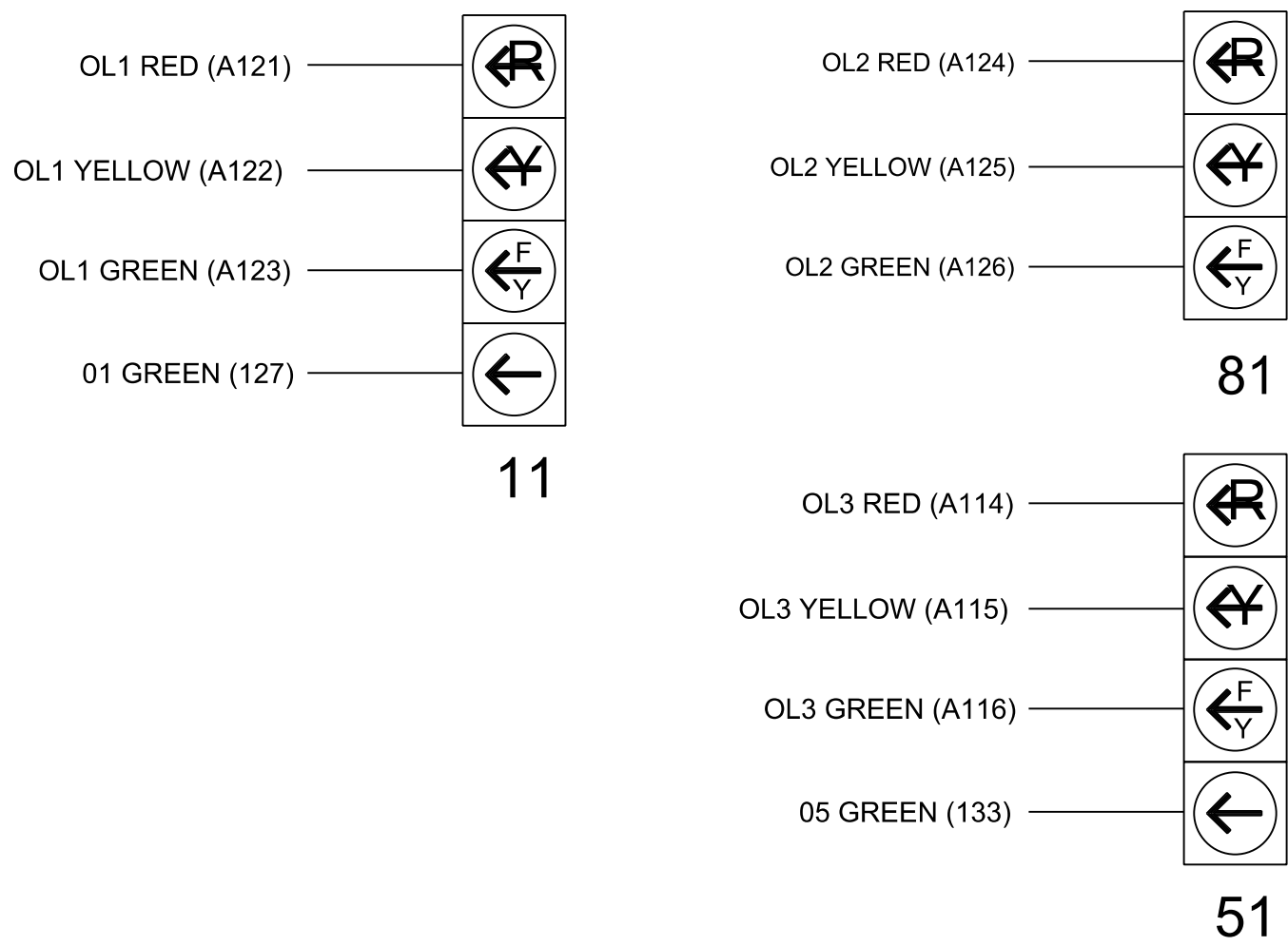
LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT POINT	DETECTOR NO.	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN
1A	TB2-1,2	I1U	56	18 -	1★ 29★	1 6	15.0 3.0		X X		X X	X
5A	TB3-1,2	J1U	55	17 -	15★ 31★	5 2	15.0 3.0		X X		X X	X
PED PUSH BUTTONS												
P61,P62	TB8-7,9	I13U	68	34	6	PED 6						
P81,P82	TB8-8,9	I13L	70	36	8	PED 8						

★ 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)

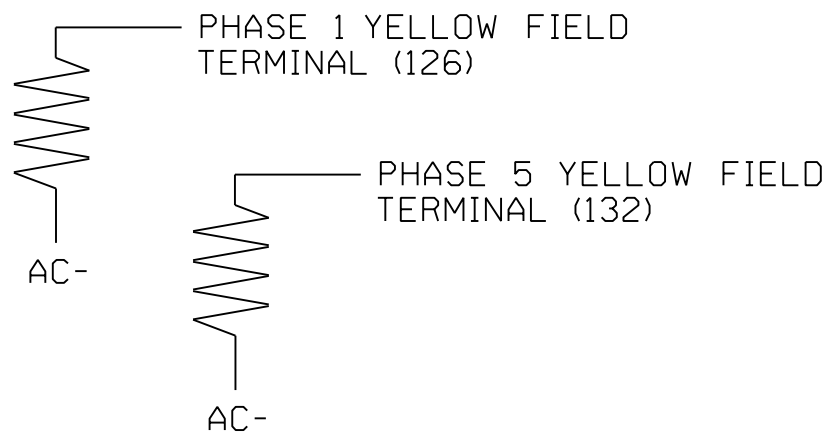


THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 05-1916T2
DESIGNED: March 2025
SEALED: March 10, 2025
REVISED:

LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown)

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



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 1A, 2A, 4A, 5A, 6A, 8A, and 8B 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 zones 1A and 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.



ELECTRICAL AND PROGRAMMING DETAILS FOR:		SR 2052 (ROGER RD.) AT HERITAGE BRANCH RD AND HERITAGE POINTE SHOPPES		DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared For the Offices of:		WAKE COUNTY WAKE FOREST		SEAL NORTH CAROLINA PROFESSIONAL SEAL 044558 DAVID T. SEARS	
DIVISION 5		WAKE COUNTY WAKE FOREST		DATE 3/10/2025	
PLAN DATE: MARCH 2025		REVIEWED BY: DSEARS		DATE	
PREPARED BY: WPJONES		REVIEWED BY:		DATE	
REVISIONS		INIT.		DATE	
750 N.Greenfield Pkwy, Garner, NC 27529				SIC. INVENTORY NO. 05-1916T2	