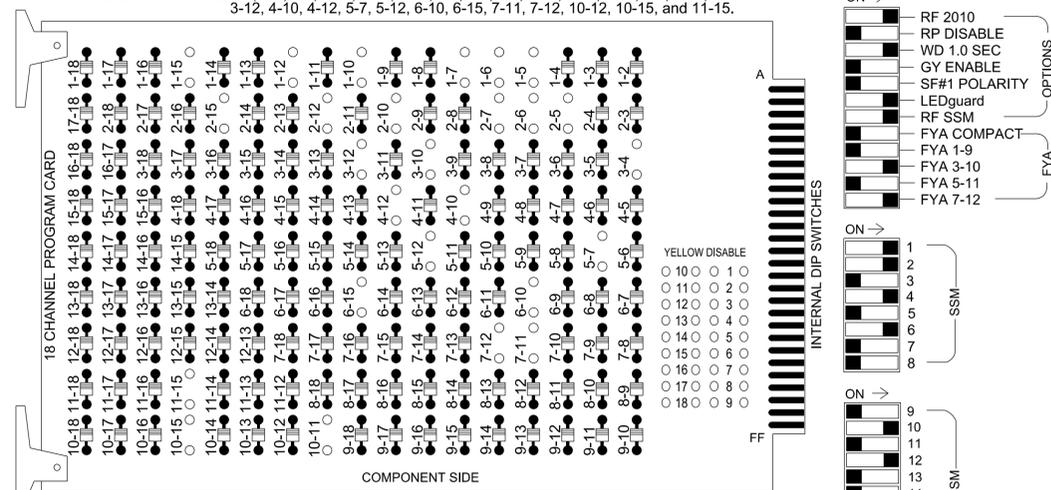


18 CHANNEL CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 1-5, 1-6, 1-7, 1-10, 1-12, 1-15, 2-5, 2-6, 2-7, 2-10, 2-12, 2-15, 3-4, 3-10, 3-12, 4-10, 4-12, 5-7, 5-12, 6-10, 6-15, 7-11, 7-12, 10-12, 10-15, 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.

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 phase 6 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,S4,S5,S7,S8,S9,S10,AUXS2, AUXS5
 Phases Used.....1,2,4,5,6,6PED
 Overlap "1".....NOT USED
 Overlap "2".....*
 Overlap "3".....NOT USED
 Overlap "4".....*
 Overlap "7".....*
 Overlap "8".....*

*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	OL7	4	4 PED	5	6	6 PED	OL8	8	8 PED	OL1	OL2	SPARE	OL3	OL4	SPARE	
SIGNAL HEAD NO.	11,12, 13,14	21,22	NU	63	41	42,43	NU	51	61,62	P61, P62	44	NU	NU	NU	63	NU	NU	44	NU
RED		128			101	101			134					A124				A101	
YELLOW		129		*	102	102			135		*								
GREEN		130			103	103			136										
RED ARROW	125								131										
YELLOW ARROW	126								132					A125				A102	
FLASHING YELLOW ARROW														A126				A103	
GREEN ARROW	127			118	103			133			124								
Hand											119								
Walking Person											121								

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)

FILE	1	2	3	4	5	6	7	8	9	10	11	12	13	14
U	TOT S	TOT S	TOT S	TOT S	TOT S	TOT S	TOT S	TOT S	TOT S	TOT S	TOT S	TOT S	6 PED	FS
L	TOT S	TOT S	TOT S	TOT S	TOT S	TOT S	TOT S	TOT S	TOT S	TOT S	TOT S	TOT S	DC ISOLATOR	DC ISOLATOR
U	TOT S	TOT S	TOT S	TOT S	TOT S	TOT S	TOT S	TOT S	TOT S	TOT S	TOT S	TOT S	NOT USED	ST
L	TOT S	TOT S	TOT S	TOT S	TOT S	TOT S	TOT S	TOT S	TOT S	TOT S	TOT S	TOT S	DC ISOLATOR	

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

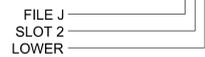
FS = FLASH SENSE
 ST = STOP TIME

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
PED PUSH BUTTONS													
P61,P62	TB8-7,9	113U	68	34	6	PED 6							

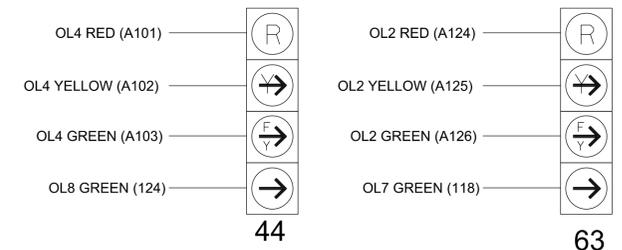
NOTE: INSTALL DC ISOLATOR IN INPUT FILE SLOT 113.

INPUT FILE POSITION LEGEND: J2L



FYA SIGNAL WIRING DETAIL

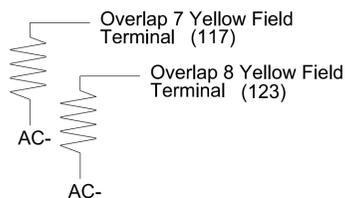
(wire signal heads as shown)



LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown)

ACCEPTABLE VALUES	
Value (ohms)	Wattage
1.5K - 1.9K	25W (min)
2.0K - 3.0K	10W (min)



SPECIAL DETECTOR NOTE

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.

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 11-0944T3
 DESIGNED: May 2023
 SEALED: 5/26/2023
 REVISED: N/A



Temporary Installation - Electrical Detail 1 of 2 (Phase 3)

	US 421 at SR 1372 (Curtis Bridge Rd)		DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED SEAL
	Division 11 Wilkes County Wilkesboro PLAN DATE: May 2023 REVIEWED BY: M.L.Stygles PREPARED BY: S.R.Chiluka REVIEWED BY: J.Ma	REVISIONS INIT. DATE DocuSigned by: 5/26/2023 DATE SIG. INVENTORY NO. 11-0944T3	