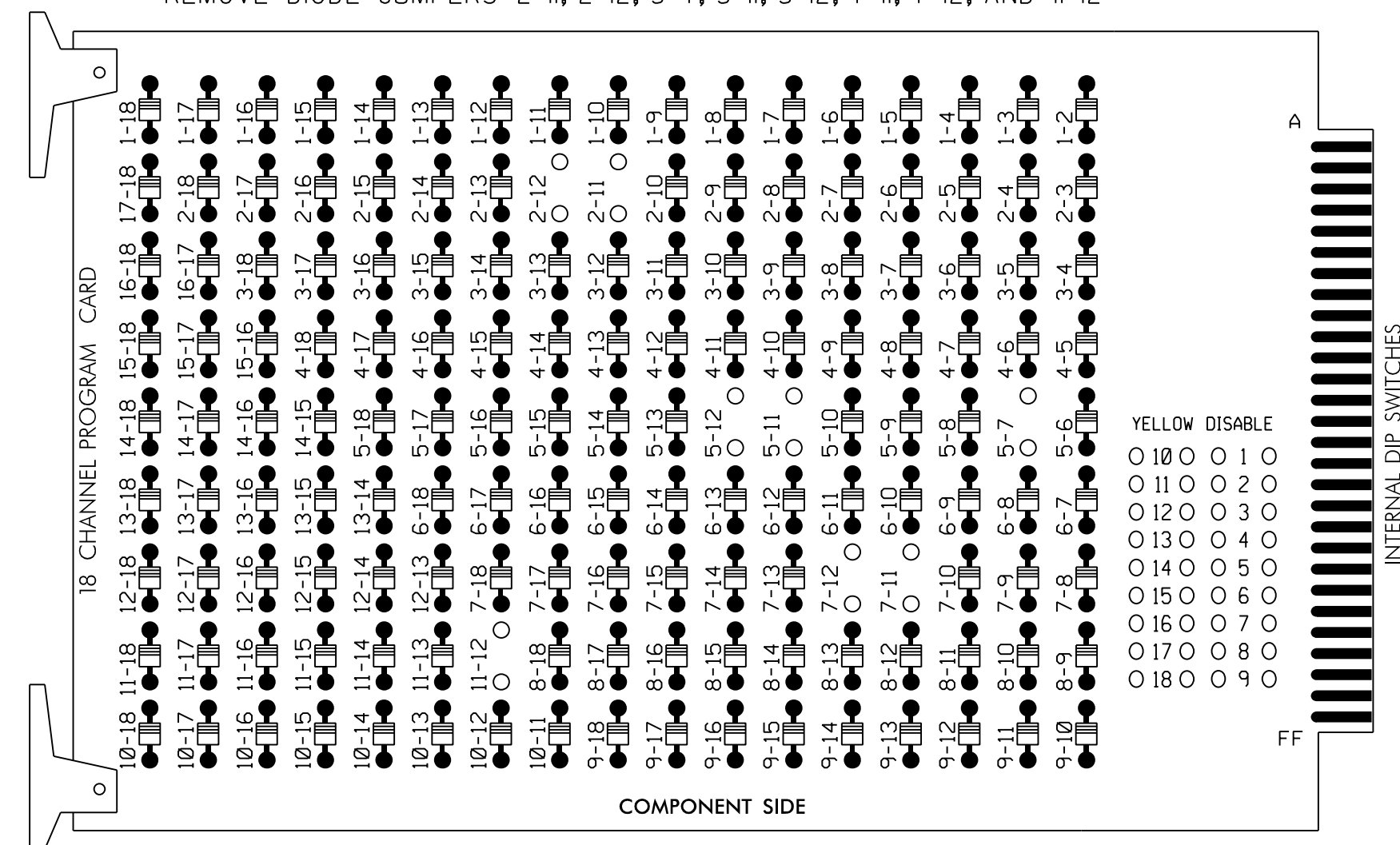


18 CHANNEL CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 2-II, 2-12, 5-7, 5-II, 5-12, 7-II, 7-12, AND II-12

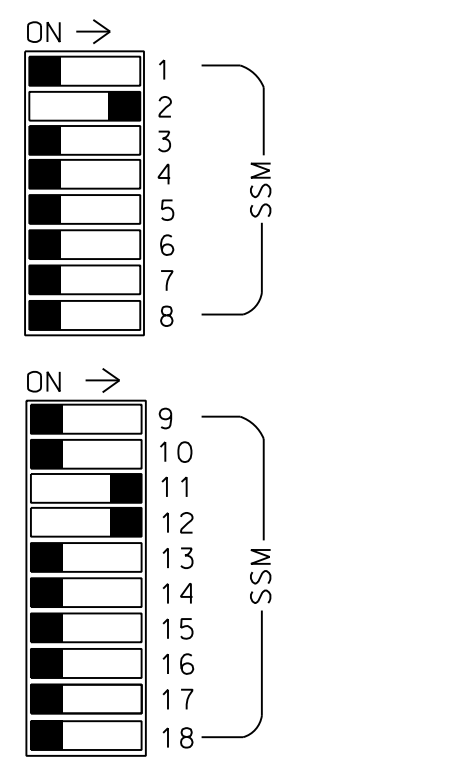
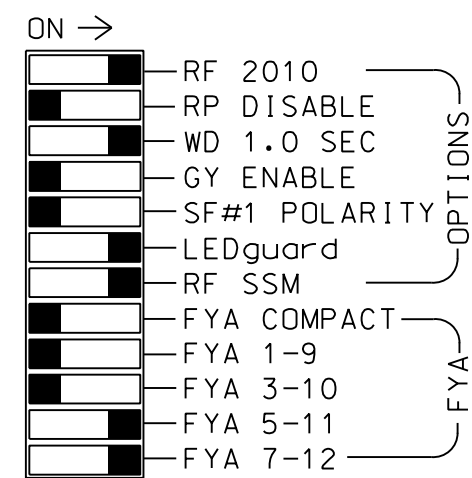
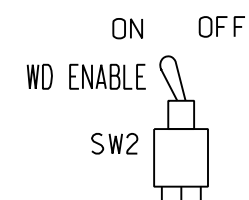


REMOVE JUMPERS AS SHOWN

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.

■ = 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 controller to start up in phase 2 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.
- The cabinet and controller are part of the US 158, Signal System : D09-11_Winston-Salem System.

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, S7, S10, AUX S4, AUX S5
 Phases Used.....2,7
 Overlap "1".....NOT USED
 Overlap "2".....NOT USED
 Overlap "3".....*
 Overlap "4".....*
 Overlap "7".....*

*See overlap programming detail on sheet 2

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	OL7	6	6 PED	7	8	8 PED	OL1	OL2	SPARE	OL3	OL4	SPARE
SIGNAL HEAD NO.	NU	21,22	NU	NU	NU	NU	72	NU	NU	71	NU	NU	NU	NU	NU	72	71	NU
RED		128																
YELLOW		129					*			*								
GREEN																		
RED ARROW																A114	A101	
YELLOW ARROW																A115	A102	
FLASHING YELLOW ARROW																A116	A103	
GREEN ARROW		130					133			124								

NU = Not Used

* Denotes install load resistor. See load resistor installation detail this sheet.

★ See pictorial of head wiring in detail below.

INPUT FILE CONNECTION & PROGRAMMING CHART

INPUT FILE POSITION LAYOUT

(front view)

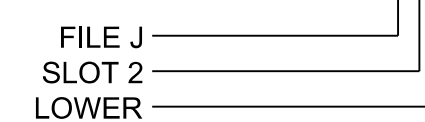
FILE	1	2	3	4	5	6	7	8	9	10	11	12	13	14
U	FS	∅ 2	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS
L	2A	∅ 2	2B	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS
U	FS	FS	FS	FS	∅ 7	FS	FS	FS	FS	FS	FS	FS	FS	FS
L	FS	FS	FS	FS	7A	FS	FS	FS	FS	FS	FS	FS	FS	FS
				NOT USED										

EX.: 1A, 2A, ETC. = LOOP NO.'S
 FS = FLASH SENSE
 ST = STOP TIME

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
2A	TB2-5,6	I2U	39	1	2	2			X	X	X	
2B	TB2-7,8	I2L	43	5	3	2			X	X	X	
7A	TB5-5,6	J5U	57	19	21★	7	15		X		X	

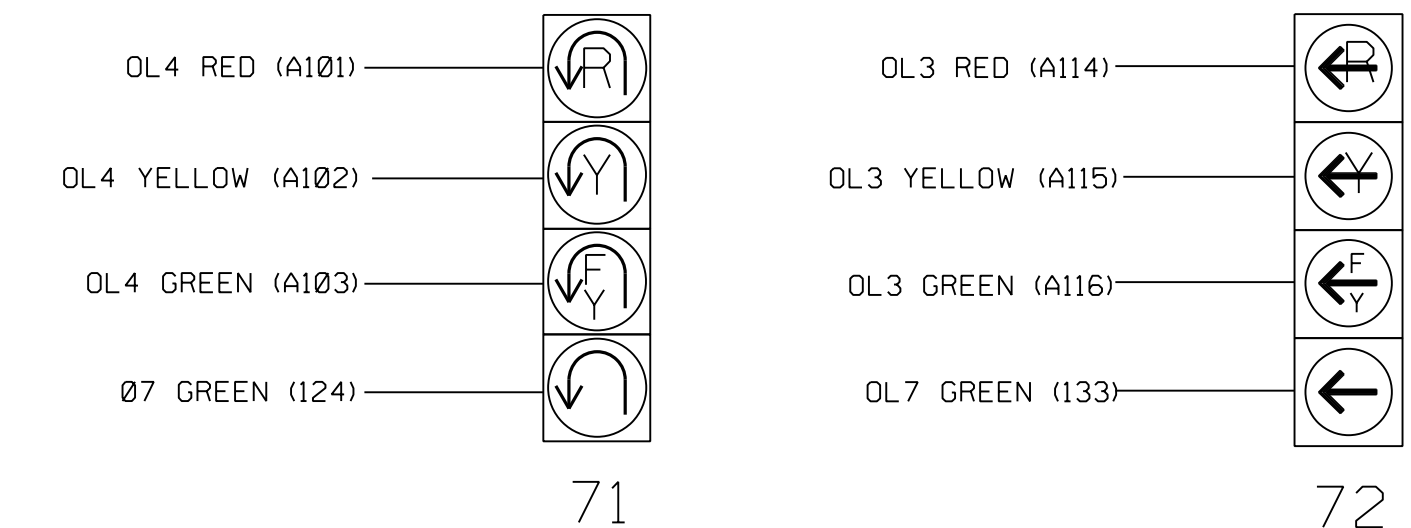
★ For the detector to work as shown on the signal design plan, see the vehicle detector setup programming detail for alternate phasing on sheet 2.

INPUT FILE POSITION LEGEND: J2L



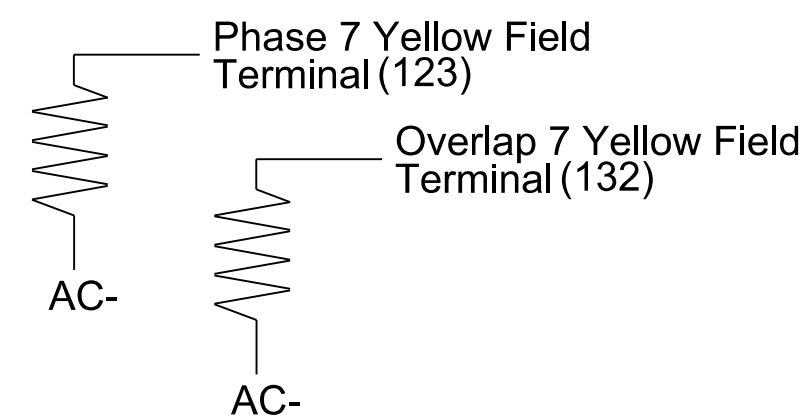
FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown)



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

2/12/2024 6:11:04 PM C:\Users\jones1\OneDrive\Documents\Signal Management\Signal Management.dgn

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 09-0983
 DESIGNED: February 2024
 SEALED: February 12, 2024
 REVISED:

Signal Upgrade - Final Desing - Electrical Detail- Sheet 1 of 2

Electrical and Programming Details For: **US 158 EB (Reidville Rd.) at U-Turn West of SR 2385 (Darrow Road)**

Prepared for the Offices of: **Division 9 Forsyth County Walkertown**

PLAN DATE: February 2024 REVIEWED BY: DT Sears

PREPARED BY: WP Erickson-Jones REVIEWED BY:

REVISIONS: INIT. DATE

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 NORTH CAROLINA PROFESSIONAL ENGINEER
 W. PORTER JONES
 SEAL 056142
 DocuSigned by: **Porter Jones** 2/12/2024
 DATE
 SIG. INVENTORY NO. 09-0983