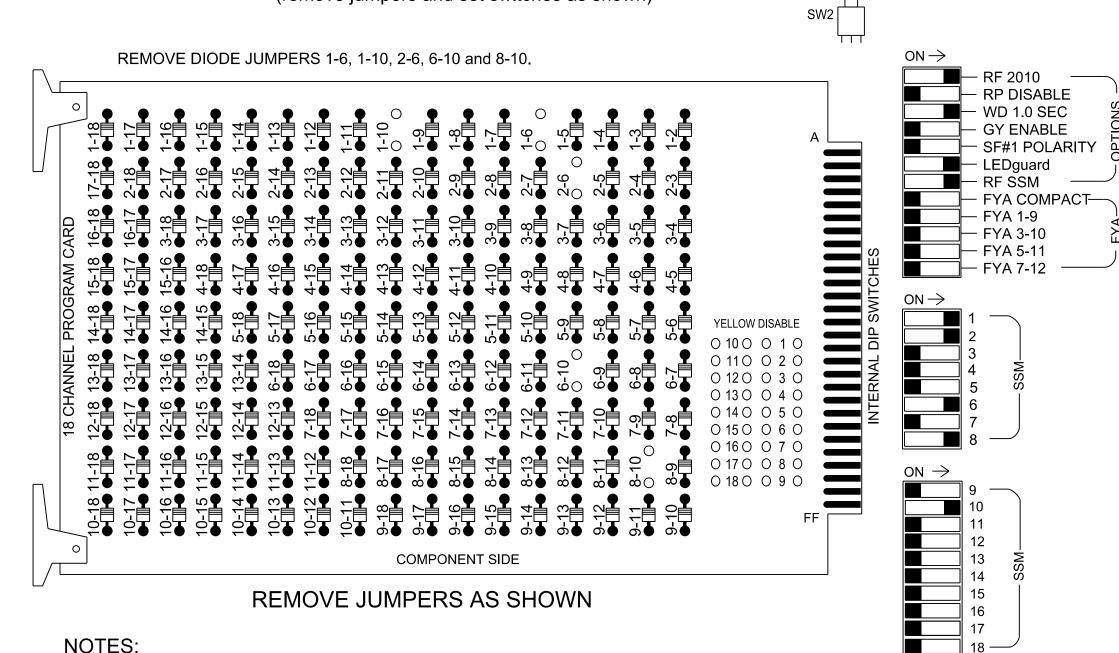
18 CHANNEL IP CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)



NOTES

- 1. 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.
- 2. Program controller to start up in phase 2 Green No Walk and 6 Green No Walk.
- 3. If this signal will be managed by an ATMS software, enable controller and detector logging for all detectors used at this location.
- 4. The cabinet and controller are part of the US 158 Signal System, 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	S1, S2, S8, S11, AUX S2
Phases Used	1, 2, 6, 8
Overlap "1"	NOT USED
Overlap "2"	*
Overlap "3"	NOT USED
Overlap "4"	NOT USED

*See overlap programming detail this sheet.

R-2577A Sig. 12.1

				S	SIGN	IAL	ΗE	AD	НО	OK-	-UP	СН	AR ⁻	Γ					
LOAD SWITCH NO.	S1	S	2	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	2	13	3	4	14	5	6	15	7	8	16	9	10	1.7	11	12	18
PHASE	1	2	2	2 PED	3	4	4 PED	5	6	6 PED	7	8	8 PÉD	OL1	OL2	SPARE	OL3	OL4	SPARE
SIGNAL HEAD NO	11,12	21	22	NU	NU	NU	NU	NU	61,62	NU	NU	82	NU	NU	13	NU	NU	NU	NU
RED	·	128	128	٠					134			107			A124		•		·
YELLOW		129	129						135			-		-	-		٠		
GREEN			130						136										
RED ARROW	125	·															·		
YELLOW ARROW	126				·							108			A125		·		
GREEN ARROW	127	130										109			A126	·			·

NU = Not Used

INPUT FILE POSITION LAYOUT

(front view)

1. Card is provided with all diode jumpers in place. Removal of any jumper allows its channels to run concurrently.

2. Ensure jumpers SEL2-SEL5 and SEL9 are present on the monitor board.

3. Ensure that the Red Enable is active at all times during normal operation.

4. Integrate monitor with Ethernet network in cabinet.

		1	2	3	4	5	6	7	8	9	10	11	12	13	14
	U	Ø 1	Ø 1	SL	SL	S L	S L	S L	S	S L	SL	S L	S L	S L	FS
FILE		1C	1A	O T	Ō T	P T	O T	O T	우	o T	우	P P	O T	9	DC ISOLATOR
" "		NOT	Ø 1	E M P	E M P	E M P	E M P	E M P	E M P	E M P	E M P	E M P	E M P	E M P	ST
L	-	USED	1B	T Y	T Y	T Y	T Y	T Y	T Y	T Y	T Y	T Y	T Y	T Y	DC ISOLATOR
		S	ş	S	S	s		S	s	s	s	s	s	s	s
FILE	U	L O T	L O T	L O T	L O T	L O T	NOT USED	S L O T	L O T						
"J"		E M	E M P	E M	E M	E M P	Ø 8	E M P	E M	E M	E M P	E M P	E M P	E M	E M P
	L	P T Y	PΤΥ	P T Y	PΤΥ	PTY	8B	P T Y	P T Y	P T Y	P T Y	P T Y	P T Y	P T Y	T Y
	l	EX.: 1A	A, 2A, ET	C. = LOC	P NO.'S						FS =	FLASH S	ENSE		

FS = FLASH SENSE ST = STOP TIME

ON OFF

■ = DENOTES POSITION OF SWITCH

WD ENABLE '

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	TB2-5,6	I2U	39	1	2	1			Х		Х	
1B	TB2-7,8	I2L	43	5	3	1			Х		Х	
1C	TB2-1,2	I1U	56	18	1	1	15		Х		Х	
8B	TB5-11,12	J6L	46	8	23	8			Х		Х	

INPUT FILE POSITION LEGEND: J2L SLOT 2 -LOWER

OVERLAP PROGRAMMING

Front Panel

Main Menu >Controller >Overlap >Overlap Parameters/Overlap Timings

Web Interface

Home >Controller >Overlap Configuration >Overlaps

Overlap Plan 1

Overlap	2
Type	Normal
Included Phases	1,8
Modifier Phases	÷
Modifier Overlaps	÷
Trail Green	0
Trail Yellow	0:0
Trail Red	0:0

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 09-0510T2 DESIGNED: February 2024 SEALED: February 12, 2024 REVISED:

Signal Upgrade - Temporary Design 2 (TMP Phase I Step 3) Electrical Detail

Electrical and Programming Details For: US 158 (Reidsville Rd.) Prepared for the Offices of: NC 74 Eastbound Ramps

Forsyth County Winston-Salem PLAN DATE: February 2024 REVIEWED BY: DT Sears PREPARED BY: WP Erickson-Jones REVIEWED BY: REVISIONS

056142

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SIG. INVENTORY NO. 09-0510T2

IN ORDER TO INSURE THAT SIGNALS FLASH CONCURRENTLY ON THE

FLASHER CIRCUIT MODIFICATION DETAIL

SAME APPROACH, MAKE THE FOLLOWING FLASHER CIRCUIT CHANGES:

- 1. ON REAR OF PDA REMOVE WIRE FROM TERM. T2-4 AND TERMINATE ON T2-2.
- 2. ON REAR OF PDA REMOVE WIRE FROM TERM. T2-5 AND TERMINATE ON T2-3.
- 3. REMOVE FLASHER UNIT 2.

THE CHANGES LISTED ABOVE TIES ALL PHASES AND OVERLAPS TO FLASHER UNIT 1.

SPECIAL DETECTOR NOTE

Install a video detection system for vehicle detection for zones 2A, 2B and 6A. Perform installation according to manufacturer's directions and NCDOT engineer -approved mounting locations to accomplish the detection schemes shown on the Signal Design Plans

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