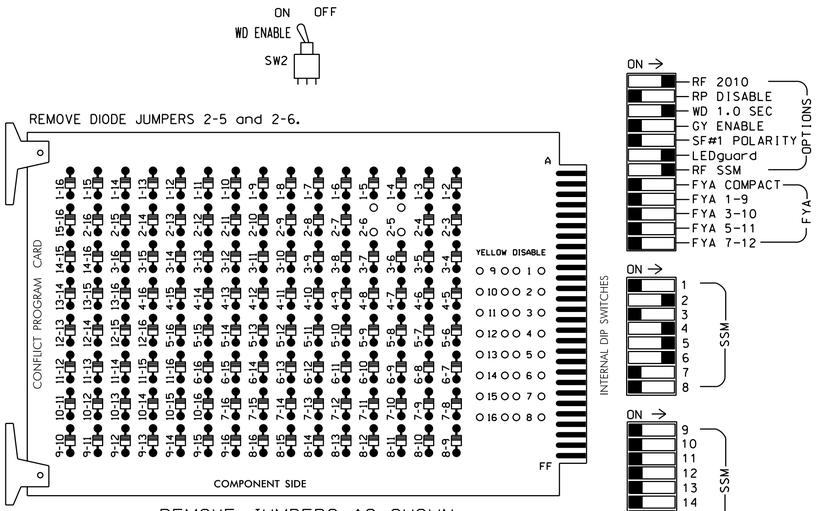
PROJECT REFERENCE NO.	SHEET NO.
B-5121/B-5317	Sig. 8.1

EDI MODEL 2010ECL-NC CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)



REMOVE JUMPERS AS SHOWN

NOTES:

1. Card is provided with all diode jumpers in place. Removal of any jumper allows its channels to run concurrently.
2. Make sure jumpers SEL2-SEL5 are present on the monitor board.

■ = DENOTES POSITION OF SWITCH

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 Plans.
2. Ensure that Red Enable is active at all times during normal operation. To prevent Red Failures on unused monitor channels, tie unused red monitor inputs 1,3,7, 8,9,10,11,12,13,14,15 & 16 to load switch AC+ per the cabinet manufacturer's instructions.
3. Program controller to start up in phases 2 and 6 green.
4. Enable simultaneous gap-out feature, on controller unit, for all phases.
5. The cabinet and controller are part of the Raleigh City Signal System.

EQUIPMENT INFORMATION

CONTROLLER.....2070
CABINET.....332
SOFTWARE.....SE-PAC2070
CABINET MOUNT.....BASE
OUTPUT FILE POSITIONS...12
LOAD SWITCHES USED.....S2,S2P*,S4,S5,S6
PHASES USED.....2,4,5,6
OVERLAP "E".....2

* Used for Advance Beacons. See sheet 3 for details.

SIGNAL HEAD HOOK-UP CHART

LOAD SWITCH NO.	S1	S2	S2P	S3	S4	S4P	S5	S6	S6P	S7	S8	S8P
PHASE	1	2	OLE	3	4	4 PED	5	6	6 PED	7	8	8 PED
SIGNAL HEAD NO.	NU	21,22	ADVANCE BEACON	NU	41,42	NU	21	61,62	NU	NU	NU	NU
RED		128			101		*	134				
YELLOW		129			102			135				
GREEN		130			103			136				
RED ARROW												
YELLOW ARROW							132					
GREEN ARROW							133					
✋			** 113									
PED YELLOW			** 114									
🚶			*									

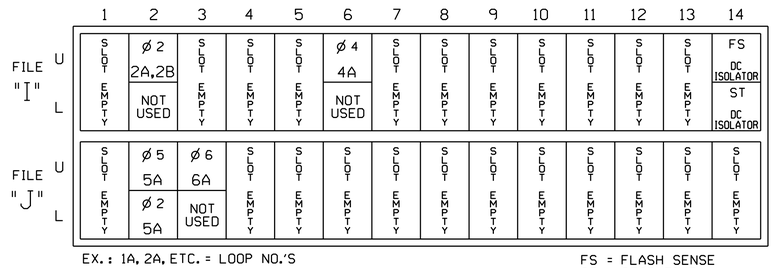
NU = Not Used

* Denotes install load resistor. See load resistor installation detail below.

** Used for Advance Beacon control. See sheet 3 for Advance Beacon Relay Control and Sign Wiring Detail.

INPUT FILE POSITION LAYOUT

(front view)



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.	DETECTOR NO.	NEMA PHASE	DELAY TIME	EXTEND (STRETCH) TIME
2A,2B	TB2-5,6	I2U	39	3	2		
4A	TB4-9,10	I6U	41	11	4		
5A[1]	TB3-5,6	J2U	40	21	5	15	
	TB3-7,8	J2L	44	22	2		
6A	TB3-9,10	J3U	64	23	6		

[1] Add jumpers from TB3-5 to TB3-7, and from TB3-6 to TB3-8.

INPUT FILE POSITION LEGEND: J2L
FILE J
SLOT 2
LOWER

SE-PAC2070 CONTROLLER OVERLAP PROGRAMMING

(program controller as shown below)

FROM MAIN MENU PRESS 4 (UNIT DATA)

```
SE-PAC UNIT DATA          PRESS # DESIRED

 1-STARTUP & MISC         6-ALT SEQUENCES
 2-REMOTE FLASH           7-PORT 1 DATA
[3-OVERLAP STANDARD]      8-I/O MISC
 4-OVERLAP SPECIAL        9-SIG DRV OUT
 5-RING STRUCTURE

                          F-PRIOR MENU
```

PRESS 'B' FOUR TIMES

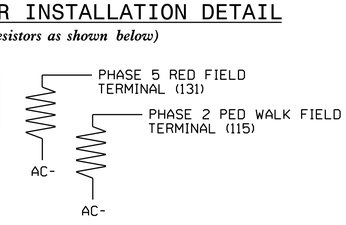
```
SE-PAC OVERLAP - E              (0-NO/1-YES)

 OVL PHASES:  010000000 0000000
    PHS/CHN:  123456789 0123456789 01234
 OVL CHN(S):  000000001 0000000000 00000


A-UP B-DN D-DspChn   E-EDIT  F-PRIOR MENU
```

PRESS 'F' TO RETURN TO UNIT DATA

LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown below)

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



THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 05-1642T2
DESIGNED: December 2015
SEALED: 2/1/2016
REVISED: N/A

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Electrical Detail - Temp Design 2 (TMP Area II Phase I, Stage II) - Sheet 1 of 3

ELECTRICAL AND PROGRAMMING DETAILS FOR:

W. Peace Street
at
US 70 WB-401/NC 50 NB
(Capital Blvd.) Ramps

Division 5 | Wake County | Raleigh

PLAN DATE: January 2016 | REVIEWED BY: T. Joyce
PREPARED BY: S. Armstrong | REVIEWED BY:

REVISIONS	INIT.	DATE

Prepared in the Offices of:
Traffic Engineering and Safety Systems Branch
North Carolina Department of Transportation
Signals Management Section
750 Greenfield Parkway, Garner, NC 27529

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 036880 ENGINEER KEITH M. MIMS

DocuSigned by: Keith M. Mims 2/2/2016
2F80786E8CD34A5 DATE

SIG. INVENTORY NO. 05-1642T2

02-FEB-2016 09:55
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sarmstrong