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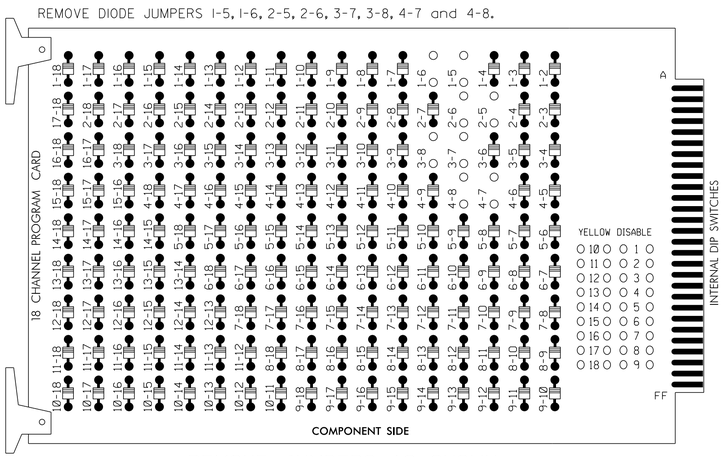
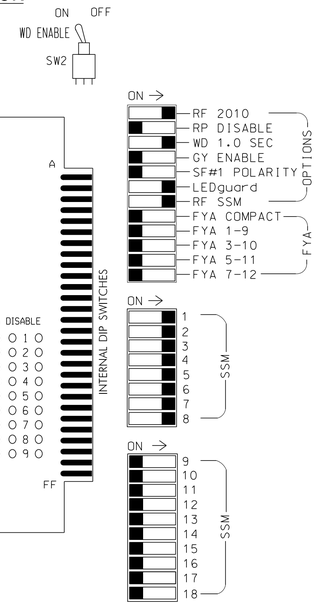
PROJECT REFERENCE NO.	SHEET NO.
U-2412A	Sig. 12.1

EDI MODEL 2018ECLip-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. Ensure jumpers SEL2-SEL5 and SEL9 are present on the monitor board.
3. Ensure that Red Enable is active at all times during normal operation.
4. Integrate monitor with Ethernet network in cabinet.

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. Initialize database in Naztec 2070 local software (Apogee) as FULL-CALTRANS. This initialization should be done prior to programming controller.
3. Initialize I/O "C1-C11-ABC IO Mode" to USER (MM 1-8-6). Then set "Init 2A" to MODE 5 (MM 1-8-9-3).
4. Program phases 2 and 6 for Start Up In Green.
5. Program "Start Up Flash" for 0 sec. The conflict monitor will govern start-up flash time.
6. Ensure "Local Flash Start" feature is set to "DRK".
7. Program controller to provide a 1 second delay on the Flash Sense/Local Flash input. Use the following logic statement to provide this functionality:

   FROM MAIN MENU->1->8->7 (I/O LOGIC)

Result Src.Fcn	TimeOp Time
I208 = OI208	DLY 1

8. The cabinet and controller are part of the City of Greensboro Signal System.

SIGNAL HEAD HOOK-UP CHART

LOAD SWITCH NO.	S1	S2	S3	S4		S5	S6	S7	S8	S9	S10		S11	S12
CMU CHANNEL NO.	1	2	13	3		4	14	5	6	15	7		8	16
PHASE	1	2	2 PED	3		4	4 PED	5	6	6 PED	7		8	8 PED
SIGNAL HEAD NO.	11,12	21,22, 23,24	NU	31,32 33	63	41,42 43	NU	51	61,62 63,64	NU	71,72 73	23	81,82 83	NU
RED		128				101			134				107	
YELLOW		129				102			135				108	
GREEN		130				103			136				109	
RED ARROW	125			116				131			122			
YELLOW ARROW	126			117	117			132			123	123		
GREEN ARROW	127			118	118			133			124	124		

NU = Not Used

EQUIPMENT INFORMATION

CONTROLLER.....2070
CABINET.....332
SOFTWARE.....NAZTEC APOGEE
CABINET MOUNT.....BASE
OUTPUT FILE POSITIONS...12
LOAD SWITCHES USED.....S1,S2,S4,S5,S7,S8,S10,S11
PHASES USED.....1,2,3,4,5,6,7,8
OVERLAPS.....NONE

INPUT FILE POSITION LAYOUT

(front view)

		1	2	3	4	5	6	7	8	9	10	11	12	13	14
FILE "I"	U	SLOT	Ø1	Ø2	Ø2	SLOT	Ø3	Ø4/SYS	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	FS
			1A	2A	2C		3A	4A/S3							DC ISOLATOR
	L	EMPTY	Ø1	Ø2	NOT USED	EMPTY	Ø3	Ø4	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY	ST
			1B	2B			3B	4B							DC ISOLATOR
FILE "J"	U	Ø5	Ø7	Ø6	Ø6	SLOT	Ø8	Ø8/SYS	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT
		5A	7A	6A	6C	EMPTY	8C	8A/S1	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY
	L	NOT USED	Ø7	Ø6	NOT USED		Ø8	Ø8/SYS							
			7B	6B			8D	8B/S2							

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.	CALL PHASE	SWITCH	DELAY TIME	EXTEND TIME	CALL	EXTEND	ADDED INIT.
1A	TB2-5,6	I2U	39	2	1	__	15	___	X	X	
1B	TB2-7,8	I2L	43	3	1	__	15	___	X	X	
2A	TB2-9,10	I3U	63	4	2	__	__	___	X	X	X
2B	TB2-11,12	I3L	76	5	2	__	__	___	X	X	X
2C	TB4-1,2	I4U	47	6	2	__	__	___	X	X	X
3A	TB4-9,10	I6U	41	8	3	__	15	___	X	X	
3B	TB4-11,12	I6L	45	9	3	__	15	___	X	X	
✳ 4A/S3	TB6-1,2	I7U	65	10	4	__	__	2.4	_	X	X
4B	TB6-3,4	I7L	78	11	4	__			X	X	
5A	TB3-1,2	J1U	55	15	5	__	15	___	X	X	
6A	TB3-9,10	J3U	64	18	6	__	__	___	X	X	X
6B	TB3-11,12	J3L	77	19	6	__	__	___	X	X	X
6C	TB5-1,2	J4U	48	20	6	__	__	___	X	X	X
7A	TB3-5,6	J2U	40	16	7	__	15	___	X	X	
7B	TB3-7,8	J2L	44	17	7	__	15	___	X	X	
✳ 8A/S1	TB7-1,2	J7U	66	24	8	__	__	2.4	-	X	
✳ 8B/S2	TB7-3,4	J7L	79	25	8	__	__	2.4	-	X	
8C	TB5-9,10	J6U	42	22	8	__			X	X	
8D	TB5-11,12	J6L	46	23	8	__	10		X	X	

✳ System detector only. Remove the vehicle phase assigned to this detector in the default programming.

INPUT FILE POSITION LEGEND: J2L
FILE J
SLOT 2
LOWER

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 07-2183
DESIGNED: February 2018
SEALED: 3/21/2018
REVISED: _____

Final Design
Electrical Detail

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

MOTT MACDONALD
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Fuquay-Varina, NC 27526
www.mottmac.com
License No. F-0669

ELECTRICAL AND PROGRAMMING DETAILS FOR:

Prepared for the Offices of:
Transportation Mobility and Safety Division
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Signal Design Section
750 N.Greenfield Pkwy,Garner,NC 27529

SR 4121 (JAMESTOWN PARKWAY)
AT
SR 4228 (VICKREY CHAPEL ROAD)

DIVISION 7 GUILFORD COUNTY HIGH POINT

PLAN DATE: February 2018	REVIEWED BY: R. Thompson
PREPARED BY: B. LEHAN	REVIEWED BY: _____

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 045256 ENGINEER BRENDAN A. LEHAN

DocuSigned by: Brendan Lehan 3/21/2018
8B1708E2F7B54CD... DATE

SIG. INVENTORY NO. 07-2183

$$$$$SYSTIME$$$$
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