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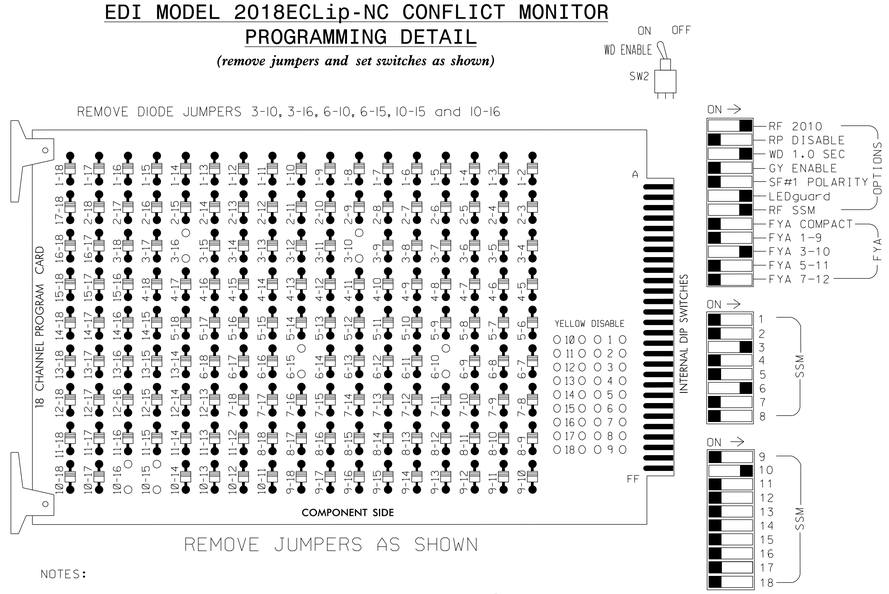
PROJECT REFERENCE NO.	SHEET NO.
W-5520	Sig. 4.1

EDI MODEL 2018ECLip-NC CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)



■ = DENOTES POSITION OF SWITCH

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. Connect serial cable from conflict monitor to comm. port 1 of 2070 controller. Ensure conflict monitor communicates with 2070.

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. Enable Simultaneous Gap-Out for all phases.
3. Program phase 6 for Variable Initial and Gap Reduction.
4. Program phase 6 for Start Up In Green.
5. Program phases 3 and 6 for 'STARTUP PED CALL'.
6. Program phase 6 for Yellow Flash and overlap 2 as Wag Overlaps.
7. The cabinet and controller are part of the US 74 - Indian Trail Closed Loop System #1.

EQUIPMENT INFORMATION

CONTROLLER.....2070E
CABINET.....332 /W/ AUX
SOFTWARE.....ECONOLITE OASIS
CABINET MOUNT.....BASE
OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE
LOAD SWITCHES USED.....S4,S8,S9,S12,AUX S2.
PHASES USED.....3,3PED,6,6PED.
OVERLAP "A".....NOT USED
OVERLAP "B".....3+6
OVERLAP "C".....NOT USED
OVERLAP "D".....NOT USED

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	3		4	4 PED	5	6	6 PED	7	8	3 PED	OLA	OLB	SPARE	OLC	OLD	SPARE
SIGNAL HEAD NO.	NU	NU	NU	31★	32,33 34	NU	NU	NU	61,62	P61 P62	NU	NU	P31 P32	NU	31★	NU	NU	NU	NU
RED					116				134										
YELLOW									135										
GREEN									136										
RED ARROW															A124				
YELLOW ARROW					117										A125				
FLASHING YELLOW ARROW															A126				
GREEN ARROW			118	118															
✋										119			110						
🚶										121			112						

NU = Not Used

★ See pictorial of head wiring in detail below.

INPUT FILE POSITION LAYOUT

(front view)

		1	2	3	4	5	6	7	8	9	10	11	12	13	14
FILE "I"	U	SLOT	SLOT	SLOT	SLOT	SLOT	Ø3	Ø3	SLOT	SYS. DET. S8	SLOT	SLOT	SLOT	Ø6 PED DC ISOLATOR	FS DC ISOLATOR
	L	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY	3A Ø3 3B	3C Ø3 3D	EMPTY	SYS. DET. S9	EMPTY	EMPTY	EMPTY	Ø3 PED DC ISOLATOR	ST DC ISOLATOR
FILE "J"	U	SLOT	Ø6/SYS 6A/S12	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SYS. DET. S10	SLOT	SLOT	SLOT	SLOT	SLOT
	L	EMPTY	Ø6/SYS 6B/S13	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY	SYS. DET. S11	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY

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

FS = FLASH SENSE
ST = STOP TIME

INPUT FILE POSITION LEGEND: J2L
FILE J
SLOT 2
LOWER

INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT ASSIGNMENT NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND	FULL TIME DELAY	STRETCH TIME	DELAY TIME
3A	TB4-9,10	I6U	41	3	4	3	Y	Y			15
	-	I6U	41	3★	53	3	Y	Y			
3B	TB4-11,12	I6L	45	7	14	3	Y	Y			10
3C	TB6-1,2	I7U	65	27	34	3	Y	Y			10
3D	TB6-3,4	I7L	78	40	44	3	Y	Y			10
* S8	TB6-9,10	I9U	60	22	11	SYS					
* S9	TB6-11,12	I9L	62	24	13	SYS					
6A/S12	TB3-5,6	J2U	40	2	6	6/SYS	Y	Y			
6B/S13	TB3-7,8	J2L	44	6	16	6/SYS	Y	Y			
* S10	TB7-9,10	J9U	59	21	15	SYS					
* S11	TB7-11,12	J9L	61	23	17	SYS					
PED PUSH BUTTONS											
P61,P62	TB8-7,9	I13U	68	30	PED 6	6 PED					
P31,P32	TB8-8,9	I13L	70	32	PED 8	3 PED					

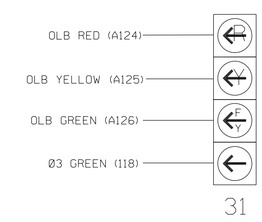
NOTE:
INSTALL DC ISOLATOR IN INPUT FILE SLOT I13.

* SYSTEM DETECTOR ONLY. REMOVE THE VEHICLE PHASE ASSIGNED TO THIS DETECTOR IN THE DEFAULT PROGRAMMING.

★ INPUT PAGE 2. SEE INPUT PAGE ASSIGNMENT PROGRAMMING DETAIL ON SHEET 3.

4 SECTION FYA PPLT SIGNAL WIRING DETAIL

(wire signal heads as shown)



NOTE

1. The sequence display for this signal requires special logic programming. See sheet 2 for programming instructions.

PED 3 PROGRAMMING DETAIL

(program controller as shown below)

CHANGING OUTPUT ASSIGNMENTS

1. FROM MAIN MENU SELECT '6' (OUTPUTS), THEN '1' (OUTPUT ASSIGNMENTS)
2. ENTER 17 (PHASE 8 DW) FOR OUTPUT ASSIGNMENT #.
3. SCROLL DOWN TO 'PEDESTRIAN PHASE' AND ENTER 'Y' REGARDLESS OF DEFAULT PROGRAMMING!
4. ENTER '3' FOR 'SELECT PEDESTRIAN PHASE'. NO CHANGE NEEDED FOR 'SELECT COLOR'
5. BACKUP TO 'OUTPUT ASSIGNMENTS AND SETTINGS MENU:' BY PRESSING THE 'ESC' BUTTON ON KEYBOARD.
6. SELECT '1' (OUTPUT ASSIGNMENTS)
7. ENTER 18 (PHASE 8 W) FOR OUTPUT ASSIGNMENT #.
8. REPEAT STEPS # 3 AND # 4.

CHANGING INPUT ASSIGNMENTS

1. FROM MAIN MENU SELECT '7' (DETECTORS), THEN '2' (PEDESTRIAN DETECTOR ASSIGNMENTS)
2. CYCLE TO PED DETECTOR #8 BY REPEATEDLY DEPRESSING '+' KEY
3. MODIFY PHASE ASSIGNED TO PED DETECTOR # 8 FROM PHASE 8 TO PHASE 3

PROGRAMMING COMPLETE

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 10-2183
DESIGNED: June 2015
SEALED: November 11, 2016
REVISED:

ELECTRICAL DETAIL SHEET 1 OF 4

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ELECTRICAL AND PROGRAMMING DETAILS FOR:

US 74 (Independence Blvd) WB
at
SR 1520 (Indian Trail-Fairview Road)

Division 10 Union County Indian Trail

PLAN DATE: June 2013	REVIEWED BY: B Humfleet		
PREPARED BY: LM Moon	REVIEWED BY:		
REVISIONS		INIT.	DATE

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

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

Lisa M. Moon 12/12/2016
DATE

SIG. INVENTORY NO. 10-2183

PLANS PREPARED BY:

DRMP
ENGINEERS • PLANNERS • SCIENTISTS
DRMP, INC.
5950 FAIRVIEW ROAD, SUITE 320
CHARLOTTE, NC 28210
NC LICENSE NO. C-2213 • (704) 332-2289

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