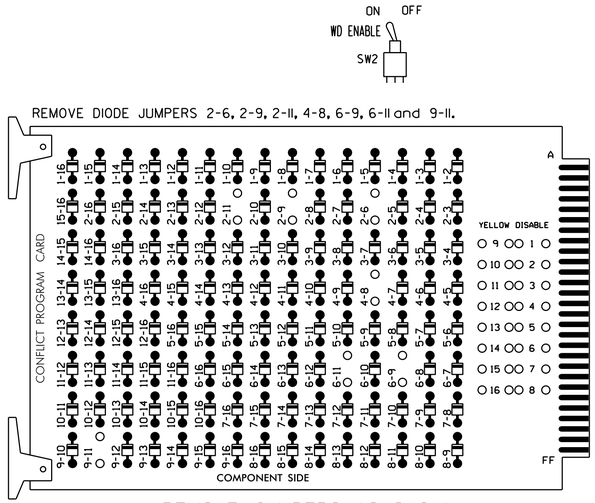
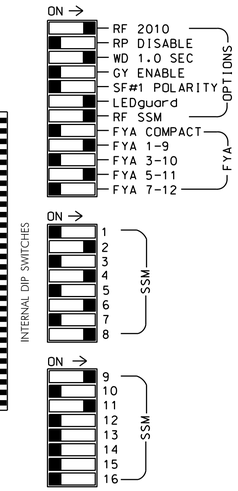
PROJECT REFERENCE NO.	SHEET NO.
2018CPT.03.02.10821,Etc.	Sig. 8.1

EDI MODEL 2010ECL-NC CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)



REMOVE JUMPERS 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. Make sure jumpers SEL2-SEL5 are present on the monitor board.

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 1,3,5,7 10,12,13,14,15 & 16 to load switch AC+ per the cabinet manufacturer's instructions.
3. Program phases 2,4,6 and 8 for Dual Entry.
4. Enable Simultaneous Gap-Out for all phases.
5. Program phases 2 and 6 for Start Up In Green.
6. Program phases 2 and 6 for Yellow Flash, and overlap 1 as Wag Overlaps.
7. Program phases 2, 4, 6 and 8 for Red Rest.
8. Ensure Auxiliary Output File is compatible with existing cabinet. Auxiliary Output File required to conform to CALTRANS *Traffic Signal Control Equipment Specifications.*

SIGNAL HEAD HOOK-UP CHART

LOAD SWITCH NO.	S1	S2	S2P	S3	S4	S4P	S5	S6	S6P	S7	S8	S8P	S9	S10	S11	S12	S13	S14
PHASE	1	2	2 PED	3	4	4 PED	5	6	6 PED	7	8	8 PED	OLA	OLB	SPARE	OLC	OLD	SPARE
SIGNAL HEAD NO.	NU	21,22	NU	NU	41,42	NU	NU	61,62	NU	NU	81,82	NU	63★	NU	NU	23★	NU	NU
RED		128			101			134			107							
YELLOW		129			102			135			108							
GREEN		130			103			136			109							
RED ARROW													A121			A114		
YELLOW ARROW													A122			A115		
FLASHING YELLOW ARROW													A123			A116		
GREEN ARROW																		

NU = Not Used

★ See pictorial of head wiring in detail below.

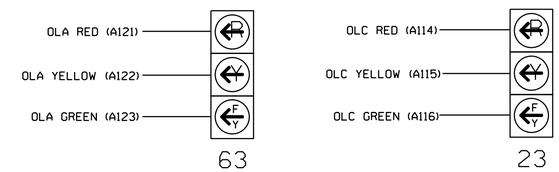
EQUIPMENT INFORMATION

CONTROLLER.....2070
* CABINET.....332 W/AUX
SOFTWARE.....ECONOLITE OASIS
CABINET MOUNT.....BASE
OUTPUT FILE POSITIONS...18 (12-STD; 6-AUX)
LOAD SWITCHES USED.....S2,S4,S6,S8,S9,S12
PHASES USED.....2,4,6,8
OVERLAP 'A'.....2
OVERLAP 'B'.....NOT USED
OVERLAP 'C'.....6
OVERLAP 'D'.....NOT USED

* In NOTES section refer to note 8.

FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



INPUT FILE POSITION LAYOUT

(front view)

		1	2	3	4	5	6	7	8	*9*	10	11	12	13	14
FILE "I"	U	SLOT EMPTY	Ø2 2A	Ø2 2C	SLOT EMPTY	SLOT EMPTY	Ø4 4A	SLOT EMPTY	SLOT EMPTY	LVDS Ø2 HOLD / AC ISOLATOR	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	FS / DC ISOLATOR
	L		Ø2 2B	NOT USED			Ø4 4B			LVDS Ø4 HOLD / AC ISOLATOR					ST / DC ISOLATOR
FILE "J"	U	SLOT EMPTY	Ø6 6A	Ø6 6C	SLOT EMPTY	SLOT EMPTY	Ø8 8A	SLOT EMPTY	SLOT EMPTY	LVDS Ø6 HOLD / AC ISOLATOR	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY
	L		Ø6 6B	NOT USED			Ø8 8B			LVDS Ø8 HOLD / AC ISOLATOR					

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

FS = FLASH SENSE
ST = STOP TIME
LVDS = LONG VEHICLE DETECTION SYSTEM

** IMPORTANT!!! BEFORE INSERTING AC ISOLATOR CARDS, REMOVE SURGE PROTECTION FROM I9 AND J9 INPUT TERMINALS. A DIRECT SHORT WILL OCCUR IF THIS IS NOT DONE. SEE LVDS WIRING DETAILS.

MAKE SURE AC ISOLATOR CARDS INSERTED AT INPUT FILE POSITION I9 AND J9 ARE SET FOR INVERTED OPERATION.

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
2A	TB2-5,6	I2U	39	1	2	2		Y		4	
2B	TB2-7,8	I2L	43	5	12	2	Y	Y	Y		3
2C	TB2-9,10	I3U	63	25	32	2	Y	Y			
4A	TB4-9,10	I6U	41	3	4	4		Y		4	
4B	TB4-11,12	I6L	45	7	14	4	Y	Y			
6A	TB3-5,6	J2U	40	2	6	6		Y		4	
6B	TB3-7,8	J2L	44	6	16	6	Y	Y	Y		3
6C	TB3-9,10	J3U	64	26	36	6	Y	Y			
8A	TB5-9,10	J6U	42	4	8	8		Y		4	
8B	TB5-11,12	J6L	46	8	18	8	Y	Y			

INPUT FILE POSITION LEGEND: J2L
FILE J
SLOT 2
LOWER

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 03-0159
DESIGNED: March 2017
SEALED: 05-04-17
REVISED: N/A

Electrical Detail Sheet 1 of 8

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ELECTRICAL AND PROGRAMMING DETAILS FOR:

Prepared in 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

US 421/NC 242
at
US 13

Division 3 | Sampson County | Spivey's Corner

PLAN DATE: January 2017 | REVIEWED BY:
PREPARED BY: B. Simmons | REVIEWED BY:

REVISIONS	DBNIT.	DATE
1 No change to electrical detail. (JP)	ZMR	5/12/2017

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 030530 ENGINEER ZACHARY M. LITTLE

DocuSigned by: Zachary M. Little 1-31-17
0C21EFD94F5341F... DATE

SIG. INVENTORY NO. 03-0159

11-WK-2017 13:24
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jpeterson