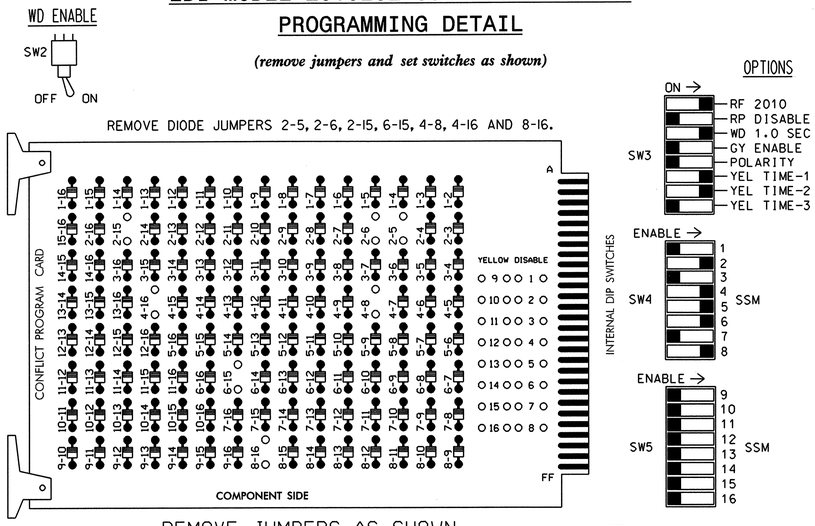
PROJECT REFERENCE NO.	SHEET NO.
R-2813C	SIG.39

EDI MODEL 2010ECL 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 SEL1-SEL5 ARE PRESENT ON THE MONITOR BOARD.

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,2B	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	Ø4 4A	SLOT EMPTY	SLOT EMPTY	SYS S17	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	Ø6PED DC ISOLATOR	FS DC ISOLATOR
FILE "I" L		Ø2 2C,2D				NOT USED			SYS S18				Ø8PED DC ISOLATOR	ST DC ISOLATOR
FILE "J" U	SLOT EMPTY	Ø2 5A	Ø4 5B	Ø6 6C,6D	Ø6 6E	SLOT EMPTY	Ø8 8A	SLOT EMPTY	SYS S19	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY
FILE "J" L		Ø5 5A	Ø6 6A,6B	NOT USED	NOT USED		Ø8 8B		SYS S20					

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

FS = FLASH SENSE
ST = STOP TIME

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 1,3,7,9,10,11,12,13,14,15 & 16 TO LOAD SWITCH AC+ PER 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. PROGRAM PHASES 4 AND 8, ON CONTROLLER UNIT, FOR DUAL ENTRY.
6. THE CONTROLLER AND CABINET ARE TO BE PROGRAMMED AND WIRED TO BE PART OF A CLOSED LOOP SIGNAL SYSTEM. CONTROLLER ASSET: 0444
7. IN CONTROL PANEL MENU, PROGRAM START-UP PED CALLS FOR PED6 AND PED8.

EQUIPMENT INFORMATION

CONTROLLER.....CONTRACTOR SUPPLIED 2070L
CABINET .....CONTRACTOR SUPPLIED 332
SOFTWARE .....ECONOLITE OASIS
CABINET MOUNT.....BASE
OUTPUT FILE POSITIONS...12
LOAD SWITCHES USED.....S2,S4,S5,S6,S6P,S8,S8P
PHASES USED.....2,4,5,6,6PED,8,8PED
OVERLAPS.....NONE

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,2B	TB2-5,6	I2U	39	1	2	2	Y	Y	-	1.8	--
2C,2D	TB2-7,8	I2L	43	5	12	2	Y	Y	-	---	--
4A	TB4-9,10	I6U	41	3	4	4	Y	Y	-	---	3
✳ S17	TB6-9,10	I9U	60	22	11	SYS	-	-	-	---	--
✳ S18	TB6-11,12	I9L	62	24	13	SYS	-	-	-	---	--
5A [1]	TB3-5,6	J2U	40	2	6	2	Y	Y	Y	---	3
	TB3-7,8	J2L	44	6	16	5	Y	Y	-	---	15
5B	TB3-9,10	J3U	64	26	36	4	Y	Y	-	---	15
6A,6B	TB3-11,12	J3L	77	39	46	6	Y	Y	-	1.8	--
6C,6D	TB5-1,2	J4U	48	10	26	6	Y	Y	-	---	--
6E	TB5-5,6	J5U	57	19	7	6	Y	Y	-	---	3
8A	TB7-1,2	J7U	66	28	38	8	Y	Y	-	---	3
8B	TB7-3,4	J7L	79	41	48	8	Y	Y	-	---	10
✳ S19	TB7-9,10	J9U	59	21	15	SYS	-	-	-	---	--
✳ S20	TB7-11,12	J9L	61	23	17	SYS	-	-	-	---	--
PED PUSH BUTTONS											
P61,P62	TB8-7,9	I13U	68	30	PED 6	6 PED					
P81,P82	TB8-8,9	I13L	70	32	PED 8	8 PED					

NOTE:
INSTALL DC ISOLATOR IN INPUT FILE SLOT I13.

[1] DENOTES ADD JUMPERS FOR LOOP 5A FROM TB3-5 TO TB3-7, AND FROM TB3-6 TO TB3-8.

✳ 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

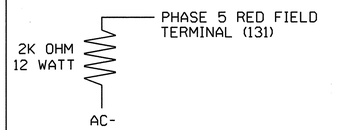
FIELD CONNECTION HOOK-UP CHART

LOAD SWITCH NO.	S1	S2	S2P	S3	S4	S4P	S5	S6	S6P	S7	S8	S8P
PHASE	1	2	2 PED	3	4	4 PED	5	6	6 PED	7	8	8 PED
SIGNAL HEAD NO.	NU	21,22	NU	NU	41,42, 43	NU	21,43	61,62	P61, P62	NU	81,82, 83	P81, P82
GREEN		130			103			136			109	
YELLOW		129			102			135			108	
RED		128			101		✳	134			107	
RED ARROW												
YELLOW ARROW							132					
GREEN ARROW							133					
🚶									121			112
✋									119			110

NU = NOT USED

✳ DENOTES INSTALL LOAD RESISTOR. SEE LOAD RESISTOR INSTALLATION DETAIL THIS PAGE.

LOAD RESISTOR INSTALLATION DETAIL



NOTE: THE PURPOSE OF THESE RESISTORS IS TO LOAD THE CHANNEL RED MONITOR INPUTS IN ORDER FOR THE SIGNAL SEQUENCE MONITOR TO USE THE FULL SIGNAL SEQUENCE MONITORING CAPABILITY ON CHANNELS THAT DO NOT USE THE RED DISPLAY IN THE FIELD.

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 13-0444
DESIGNED: 02/15/2003
SEALED: 02/26/2004
REVISED: TBD

PLANS PREPARED BY :
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FOR
DIVISION OF HIGHWAYS

ELECTRICAL AND PROGRAMMING DETAILS FOR:

Prepared for the Offices of:
Traffic Engineering and Safety Systems Branch
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Signals Management Section
122 N. McDowell St., Raleigh, NC 27603

NC 146 (LONG SHOALS ROAD)
AT
SR 3503 (OVERLOOK ROAD)

DIVISION 13	BUNCOMBE COUNTY	ASHEVILLE
PLAN DATE: JULY 2003	REVIEWED BY:	J O DEATON
PREPARED BY: M W YALCH	REVIEWED BY:	

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 07438 ENGINEER JAMES O. DEATON

James O. Deaton 2/26/04
SIGNATURE DATE

SIG. INVENTORY NO. 13-0444