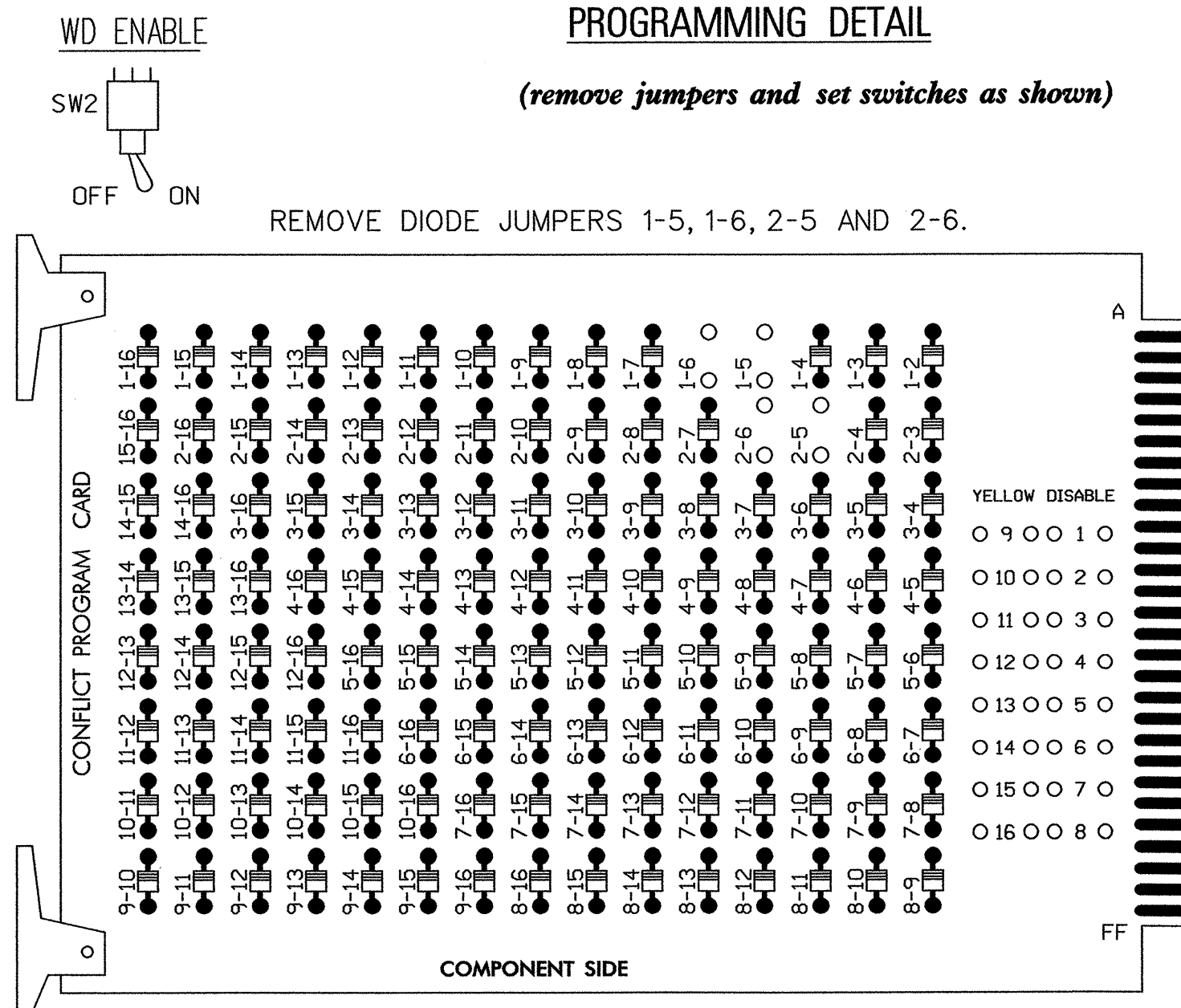


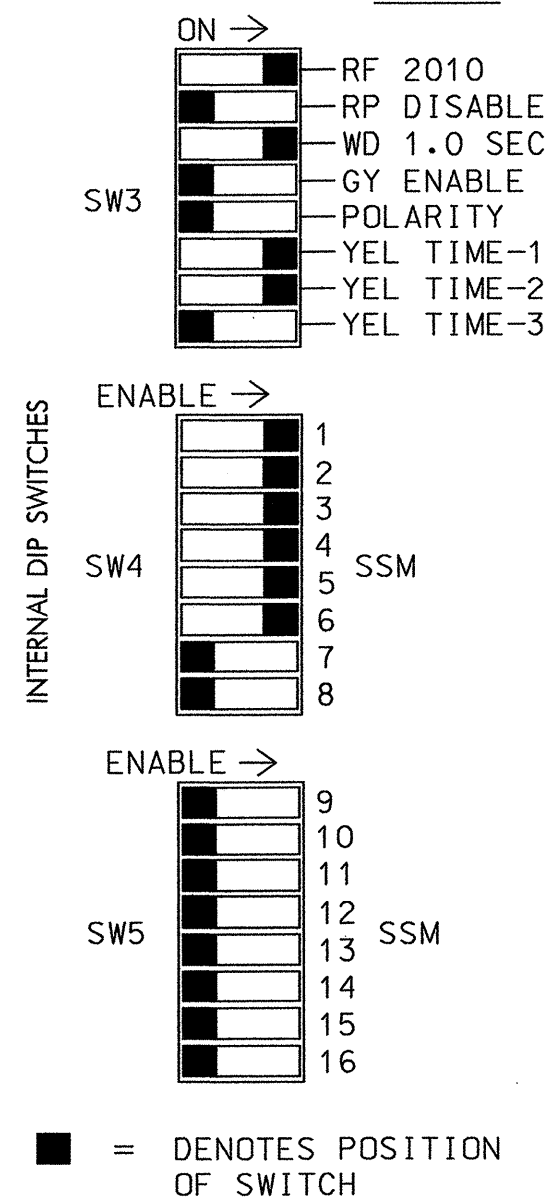
EDI MODEL 2010ECL CONFLICT MONITOR

PROGRAMMING DETAIL

(remove jumpers and set switches as shown)



OPTIONS



NOTES:

- CARD IS PROVIDED WITH ALL DIODE JUMPERS IN PLACE. REMOVAL OF ANY JUMPER ALLOWS ITS CHANNELS TO RUN CONCURRENTLY.
- MAKE SURE JUMPERS SEL1-SEL5 ARE PRESENT ON THE MONITOR BOARD.

INPUT FILE POSITION LAYOUT

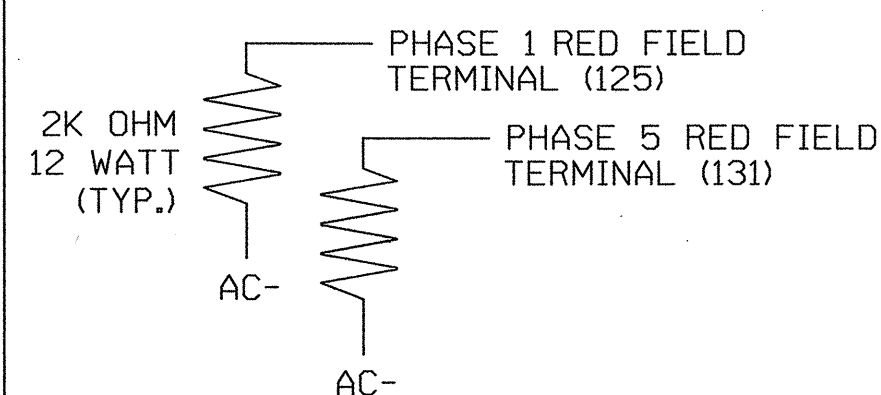
(front view)

FILE "I"	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
U	1A	2A	3A	3B	3C	4A	4C	SYS	S	S	S	S	S	S	FS
L	1A	2B	NOT USED	NOT USED	3D	4B	NOT USED	SYS	S	S	S	S	S	S	ST
FILE "J"	5A	5B	S	S	6A-S33	S	S	SYS	S	S	S	S	S	S	S
U	5A	5C	S	S	6B-S34	S	S	SYS	S	S	S	S	S	S	S
L	5A	5C	S	S	6B-S34	S	S	SYS	S	S	S	S	S	S	S

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

FS = FLASH SENSE
ST = STOP TIME

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.

NOTES

- 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.
- 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 7,8,9,10,11,12,13,14,15 & 16 TO LOAD SWITCH AC+ PER CABINET MANUFACTURER'S INSTRUCTIONS.
- PROGRAM CONTROLLER TO START UP IN PHASES 2 AND 6 GREEN.
- ENABLE SIMULTANEOUS GAP-OUT FEATURE, ON CONTROLLER UNIT, FOR ALL PHASES.
- PROGRAM PHASES 2 AND 6, ON CONTROLLER UNIT, FOR VARIABLE INITIAL AND GAP REDUCTION.
- THE CONTROLLER AND CABINET ARE TO BE PROGRAMMED AND WIRED TO BE PART OF A CLOSED LOOP SIGNAL SYSTEM. CONTROLLER ASSET: 0390
- INSTALL THE ACCUTIME 2000 GPS PER THE MANUFACTURER'S INSTRUCTIONS AND THE CONNECTOR WIRING DETAIL ON PAGE 2. THE GPS UNIT WILL BE REMOVED UPON INSTALLATION AND ACTUATION OF THE CLOSED LOOP SYSTEM.

EQUIPMENT INFORMATION

CONTROLLER.....CONTRACTOR SUPPLIED 2070L
CABINETCONTRACTOR SUPPLIED 332
SOFTWAREECONOLITE OASIS
CABINET MOUNT.....BASE
OUTPUT FILE POSITIONS...12
LOAD SWITCHES USED.....S1,S2,S3,S4,S5,S6
PHASES USED.....1,2,3,4,5,6
OVERLAPS.....NONE

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.	61	21,22, 23	NU	23	31	32	41,42	43,44	63	NU	21,44	61,62, 63
GREEN		130		118	118			103				136
YELLOW		129		117	117			102				135
RED	*	128		116	116			101		*		134
RED ARROW								101				
YELLOW ARROW	126			117				102	102		132	
GREEN ARROW	127			118	118			103	103		133	
PEDESTAL												
WALKER												
HAND												

NU = NOT USED

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

BACK-UP PROTECTION PROGRAMMING DETAIL

(program controller as shown below)

- FROM MAIN MENU PRESS '2' (PHASE CONTROL), THEN '1' (PHASE CONTROL FUNCTIONS). SCROLL TO THE BOTTOM OF THE MENU AND ENABLE DYNAMIC/BACKUP CONTROL FUNCTIONS 1 AND 2.
- FROM PHASE CONTROL FUNCTIONS MENU PRESS '2' (DYNAMIC/BACKUP CONTROL FUNCTIONS).

DYNAMIC/BACKUP CONTROL FUNCTION #01
OVERLAPS: ABCDEFGHIJKLMNP
IF OVERLAPS ARE ACTIVE |
OR PHASES: 12345678910111213141516
IF PHASES ARE ON: X
OMIT PHASES: X
CALL PHASES: X

PRESS 'NEXT'

DYNAMIC/BACKUP CONTROL FUNCTION #02
OVERLAPS: ABCDEFGHIJKLMNP
IF OVERLAPS ARE ACTIVE |
OR PHASES: 12345678910111213141516
IF PHASES ARE ON: X
OMIT PHASES: X
CALL PHASES: X

BACKUP PROTECTION PROGRAMMING COMPLETE

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 03-0390
DESIGNED: SEPTEMBER 2003
SEALED: 12/11/2003
REVISED: TBD

INPUT FILE CONNECTION & PROGRAMMING CHART

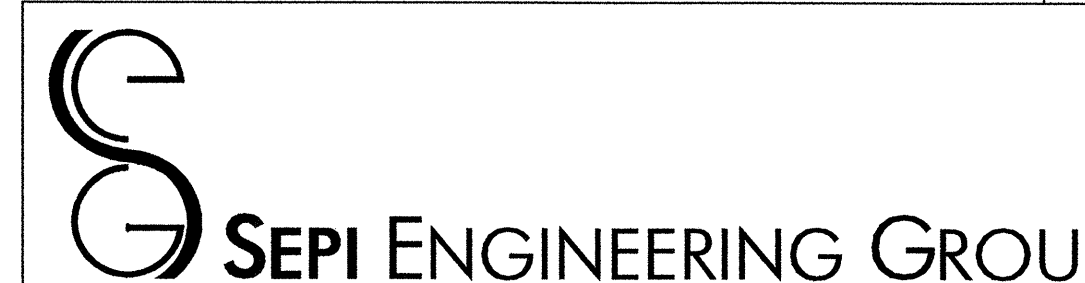
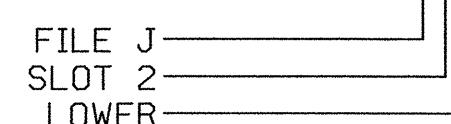
LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT ASSIGNMENT NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND	FULL TIME DELAY	STRETCH TIME	DELAY TIME
1A	TB2-5,6	I2U	39	1	2	1	Y	Y	-	---	15
	TB2-7,8	I2L	43	5	12	6	Y	Y	Y	---	3
2A	TB2-9,10	I3U	63	25	32	2	Y	Y	-	---	---
2B	TB2-11,12	I3L	76	38	42	2	Y	Y	-	---	---
3A	TB4-1,2	I4U	47	9	22	3	Y	Y	-	---	---
3B	TB4-5,6	I5U	58	20	3	3	Y	Y	-	---	---
3C	TB4-9,10	I6U	41	3	4	3	Y	Y	-	---	10
3D	TB4-11,12	I6L	45	7	14	3	Y	Y	-	---	20
4A	TB6-1,2	I7U	65	27	34	4	Y	Y	-	---	---
4B	TB6-3,4	I7L	78	40	44	4	Y	Y	-	---	---
4C	TB6-5,6	I8U	49	11	24	4	Y	Y	-	---	---
*X	S29	TB6-9,10	I9U	60	22	11	SYS	-	-	---	---
*X	S30	TB6-11,12	I9L	62	24	13	SYS	-	-	---	---
5A	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	5	Y	Y	-	---	15
5C	TB3-11,12	J3L	77	39	46	5	Y	Y	-	---	25
*X	6A/S33	TB5-9,10	J6U	42	4	8	6/SYS	Y	Y	-	---
*X	6B/S34	TB5-11,12	J6L	46	8	18	6/SYS	Y	Y	-	---
*X	S31	TB7-9,10	J9U	59	21	15	SYS	-	-	---	---
*X	S32	TB7-11,12	J9L	61	23	17	SYS	-	-	---	---

- DENOTES ADD JUMPERS FOR LOOP 1A FROM TB2-5 TO TB2-7, AND FROM TB2-6 TO TB2-8.
- ADD JUMPERS FOR LOOP 5A FROM TB3-5 TO TB3-7, AND FROM TB3-6 TO TB3-8.

*X SYSTEM DETECTOR

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

INPUT FILE POSITION LEGEND: J2L



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ELECTRICAL AND PROGRAMMING DETAILS FOR:
Prepared for the Office of:
Traffic Engineering and Safety Systems Group
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Signal Management Section
122 N. McDowell St., Raleigh, NC 27603

US 17 (MARKET STREET)
AT
SR 2048 (GORDON ROAD)

DIVISION 03	NEW HANOVER COUNTY	WILMINGTON
PLAN DATE: NOVEMBER 2003	REVIEWED BY: J O DEATON	
PREPARED BY: M W YALCH	REVIEWED BY:	
REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 07438
JAMES O. DEATON
12/16/03
DATE
SIG. INVENTORY NO. 03-0390