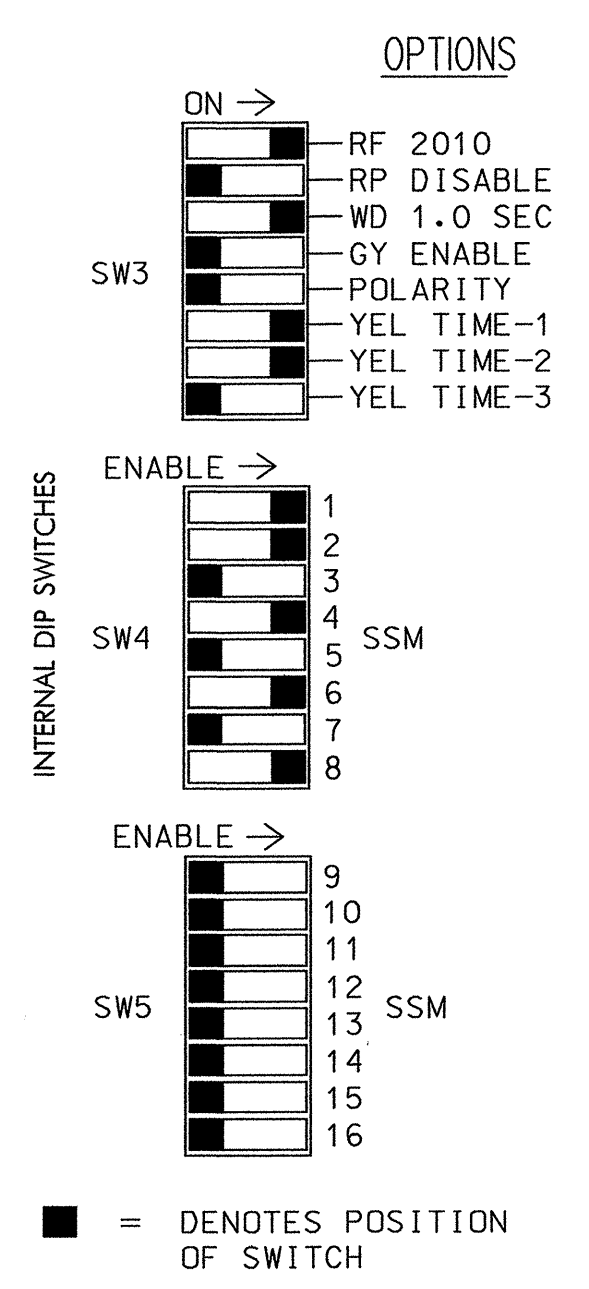
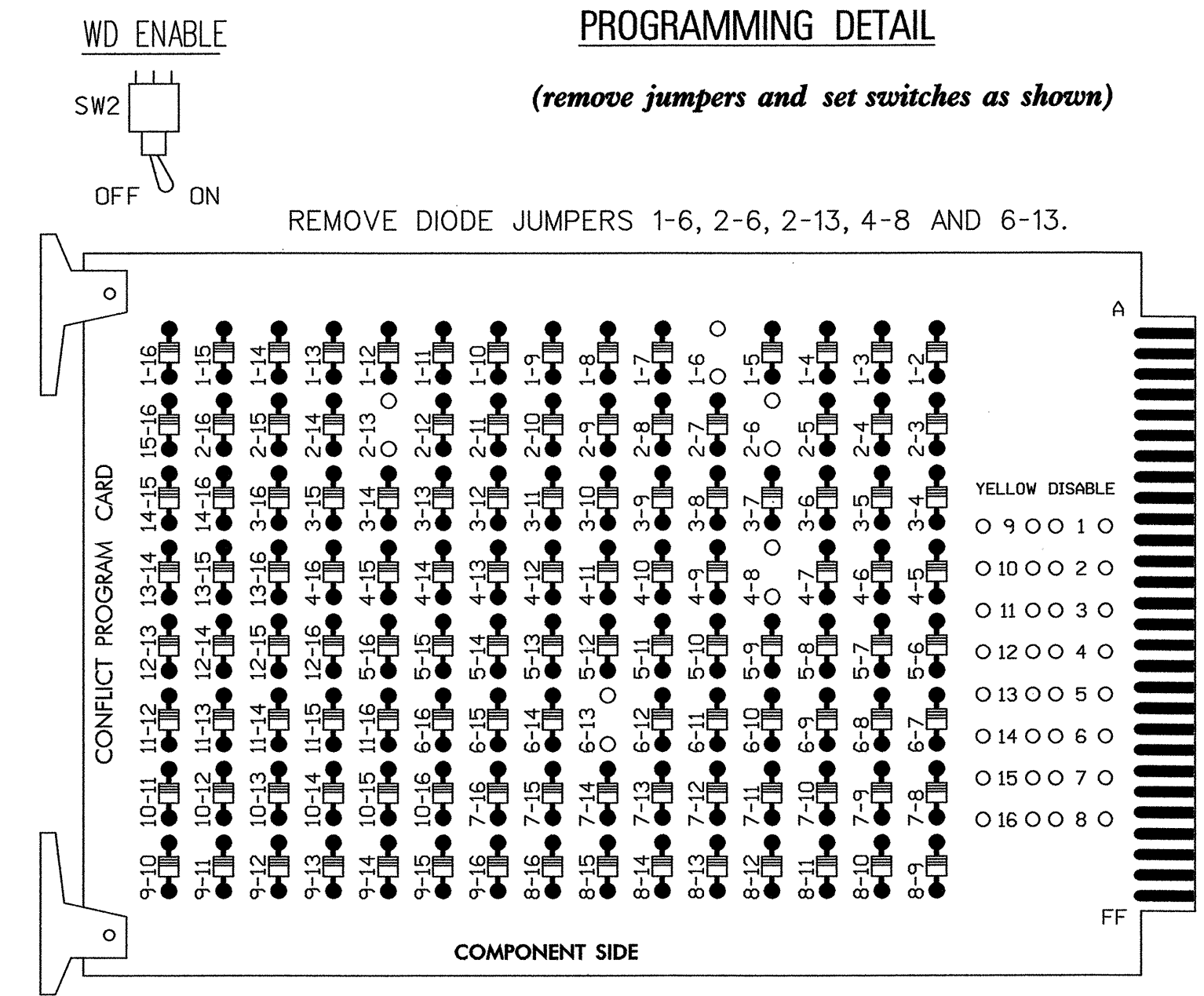


EDI MODEL 2010ECL CONFLICT MONITOR

PROGRAMMING DETAIL

(remove jumpers and set switches as shown)



- 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)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
FILE "I" U	∅ 1	∅ 1	∅ 2	∅ 2	S	∅ 4	S	S	S	S	S	∅ 2 PED	S	FS
L	1B	1A	2A	2C	NOT USED	4A	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	DC ISOLATOR	NOT USED	DC ISOLATOR
FILE "J" U	NOT USED	∅ 6	∅ 2	NOT USED	S	∅ 8	S	S	S	S	S	S	S	S
L	6A	6A	6A	6A	6A	8A	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
	6B	6B	6B	6B	6B	8A	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED

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

FS = FLASH SENSE  
ST = STOP TIME

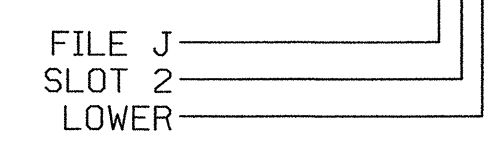
INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT ASSIGNMENT NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND	FULL TIME DELAY	STRETCH TIME	DELAY TIME
1B	TB2-1,2	I1U	56	18	1	1	Y	Y	-	---	15
1A <sup>1</sup>	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	-	---	--
2C	TB4-1,2	I4U	47	9	22	2	Y	Y	Y	---	3
4A	TB4-9,10	I6U	41	3	4	4	Y	Y	-	---	10
6A	TB3-5,6	J2U	40	2	6	6	Y	Y	-	---	--
6B	TB3-7,8	J2L	44	6	16	6	Y	Y	-	---	--
8A	TB5-9,10	J6U	42	4	8	8	Y	Y	-	---	--
PED PUSH BUTTONS											
P21,P22	TB8-4,6	I12U	67	29	PED 2	2 PED					

NOTE: INSTALL DC ISOLATORS IN INPUT FILE SLOT I12.

<sup>1</sup> DENOTES ADD JUMPERS FOR LOOP 1A FROM TB2-5 TO TB2-7, AND FROM TB2-6 TO TB2-8.

INPUT FILE POSITION LEGEND: J2L



NOTES

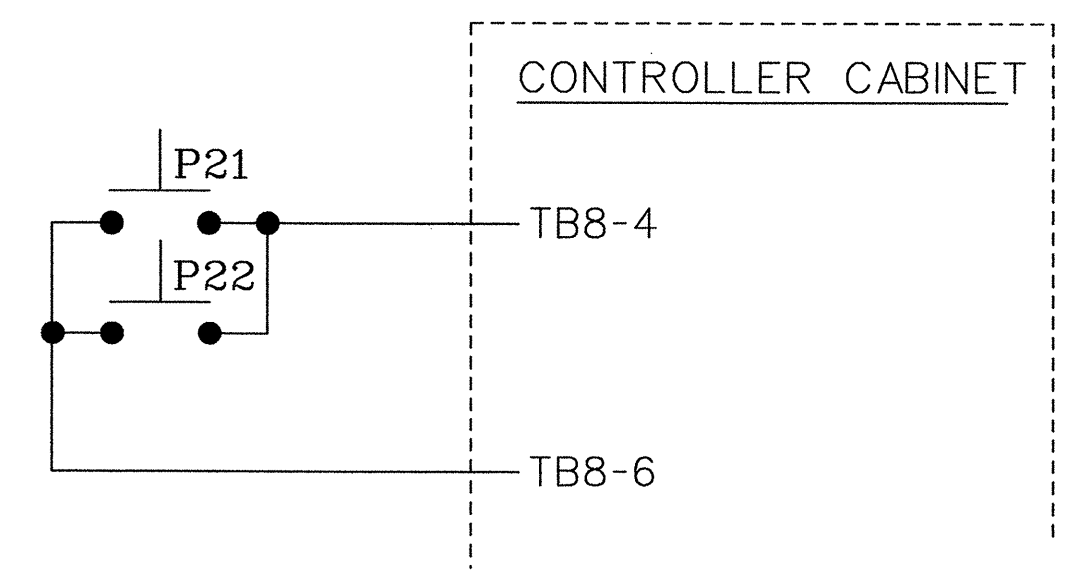
- TO PREVENT "FLASH-CONFLICT" PROBLEMS, INSERT RED FLASH PROGRAM BLOCKS FOR ALL UNUSED VEHICLE LOAD SWITCHES IN THE OUTPUT FILE. THE INSTALLER SHALL VERIFY THAT SIGNAL HEADS FLASH IN ACCORDANCE WITH THE SIGNAL PLANS.
- ENSURE THAT RED ENABLE IS ACTIVE AT ALL TIMES DURING NORMAL OPERATION. TO PREVENT RED FAILURES ON UNUSED MONITOR CHANNELS, TIE UNUSED RED MONITOR INPUTS 3,5,7,9,10,11,12,13,14,15 & 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 4 AND 8, ON CONTROLLER UNIT, FOR DUAL ENTRY.
- 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: 0794
- PROGRAM PHASE 2 FOR 'START-UP PED CALLS'.

EQUIPMENT INFORMATION

CONTROLLER.....CONTRACTOR SUPPLIED 2070L  
 CABINET .....CONTRACTOR SUPPLIED 332  
 SOFTWARE .....ECONOLITE OASIS  
 CABINET MOUNT.....BASE  
 OUTPUT FILE POSITIONS...12  
 LOAD SWITCHES USED.....S1,S2,S2P,S4,S6,S8  
 PHASES USED.....1,2,2PED,4,6,8  
 OVERLAPS.....NONE

PEDESTRIAN PUSH-BUTTON WIRING DETAIL

(wire push-buttons as shown below)



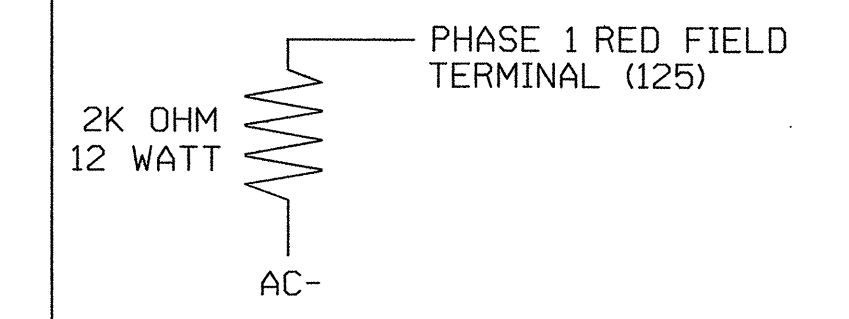
NOTE: PROGRAM PED HEADS PER MANUFACTURER'S INSTRUCTIONS TO COUNTDOWN THE PED INTERVAL CLEARANCE ONLY.

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.	61,82	21,22, 23	P21, P22	NU	41,42	NU	NU	61,62	NU	NU	81,82	NU
GREEN		130			103			136			109	
YELLOW		129			102			135			108	
RED	*	128			101			134			107	
RED ARROW												
YELLOW ARROW	126											
GREEN ARROW	127											
			115									
			113									

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.

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 FUNCTION 1.
- 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

BACKUP PROTECTION PROGRAMMING COMPLETE

NEW INSTALLATION

Electrical and Programming Details For:

SR 1409 (MILITARY CUTOFF ROAD) AT ARBORETUM DRIVE AND ARBOR COURT

NEW HANOVER COUNTY WILLINGHAM

PLAN DATE: NOVEMBER 2003 REVIEWED BY: J O DEATON

PREPARED BY: M W YALCH REVIEWED BY:

REVISIONS INIT. DATE

Signature: James O. Deaton 11/16/04

SEAL NORTH CAROLINA PROFESSIONAL ENGINEER JAMES O. DEATON SEAL 07438

SIG. INVENTORY NO. 03-0794

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 03-0794  
 DESIGNED: SEPTEMBER 2003  
 SEALED: 1/7/2004  
 REVISED: TBD

SEPI ENGINEERING GROUP

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