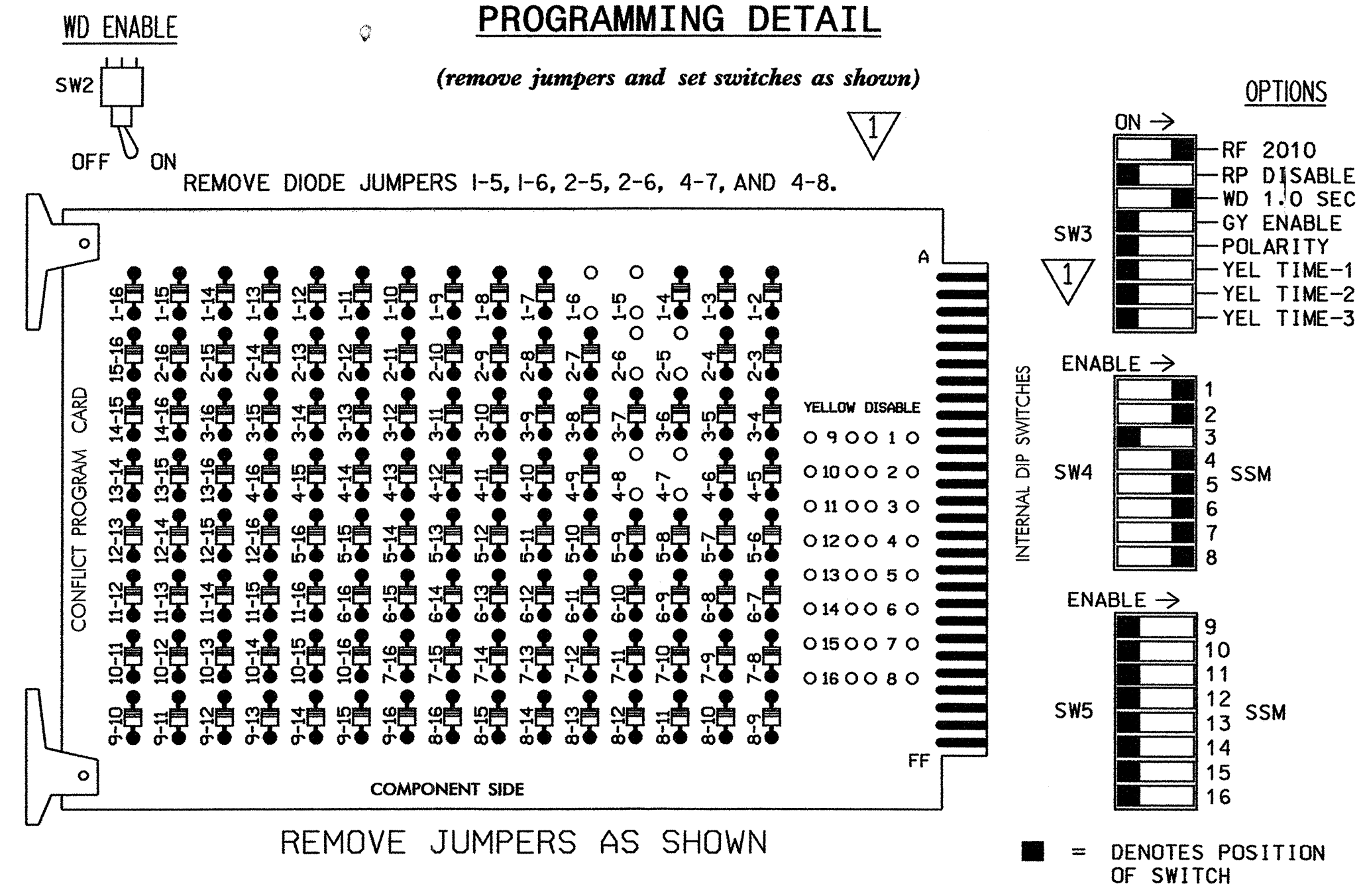


EDI MODEL 2010ECL CONFLICT MONITOR

PROGRAMMING DETAIL



- REMOVE JUMPERS 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.

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 3,9,10, 11,12,13,14,15 & 16 TO LOAD SWITCH AC+ PER THE 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 CABINET AND CONTROLLER ARE PART OF THE NC 59 CLOSED LOOP SIGNAL SYSTEM.

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.	11	21,22 23	NU	NU	41,42 43	NU	42	51	61,62	NU	41,62 83	NU
GREEN		130			103				136			109
YELLOW		129			102				135			108
RED		128			101				134	*		107
RED ARROW	125								131			
YELLOW ARROW	126							132	132			123
GREEN ARROW	127							133	133			124

NU = NOT USED
* DENOTES INSTALL LOAD RESISTOR. SEE LOAD RESISTOR INSTALLATION DETAIL THIS PAGE.

EQUIPMENT INFORMATION

CONTROLLER.....EXISTING 2070L
CABINETEXISTING 332
SOFTWAREECONOLITE OASIS
CABINET MOUNT.....BASE
OUTPUT FILE POSITIONS...12
LOAD SWITCHES USED.....S1,S2,S4,S5,S6,S7,S8
PHASES USED.....1,2,4,5,6,7,8
OVERLAPS.....NONE

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).

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

BACKUP PROTECTION PROGRAMMING COMPLETE

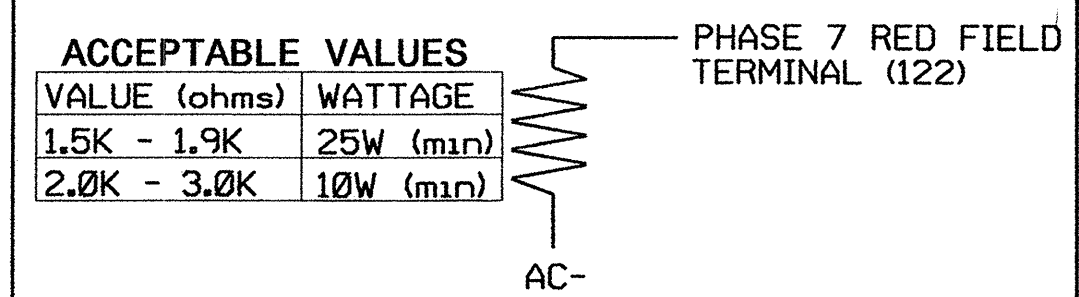
INPUT FILE POSITION LAYOUT

(front view)

FILE "I"	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1A	∅ 1	∅ 2	∅ 2	∅ 2	∅ 2	∅ 2	∅ 2	∅ 2	∅ 2	∅ 2	∅ 2	∅ 2	∅ 2	∅ 2
2A	∅ 2	∅ 2	∅ 2	∅ 2	∅ 2	∅ 2	∅ 2	∅ 2	∅ 2	∅ 2	∅ 2	∅ 2	∅ 2	∅ 2
3A	∅ 3	∅ 3	∅ 3	∅ 3	∅ 3	∅ 3	∅ 3	∅ 3	∅ 3	∅ 3	∅ 3	∅ 3	∅ 3	∅ 3
4A	∅ 4	∅ 4	∅ 4	∅ 4	∅ 4	∅ 4	∅ 4	∅ 4	∅ 4	∅ 4	∅ 4	∅ 4	∅ 4	∅ 4
5A	∅ 5	∅ 5	∅ 5	∅ 5	∅ 5	∅ 5	∅ 5	∅ 5	∅ 5	∅ 5	∅ 5	∅ 5	∅ 5	∅ 5
6A	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6
7A	∅ 7	∅ 7	∅ 7	∅ 7	∅ 7	∅ 7	∅ 7	∅ 7	∅ 7	∅ 7	∅ 7	∅ 7	∅ 7	∅ 7
8A	∅ 8	∅ 8	∅ 8	∅ 8	∅ 8	∅ 8	∅ 8	∅ 8	∅ 8	∅ 8	∅ 8	∅ 8	∅ 8	∅ 8
9A	∅ 9	∅ 9	∅ 9	∅ 9	∅ 9	∅ 9	∅ 9	∅ 9	∅ 9	∅ 9	∅ 9	∅ 9	∅ 9	∅ 9
10A	∅ 10	∅ 10	∅ 10	∅ 10	∅ 10	∅ 10	∅ 10	∅ 10	∅ 10	∅ 10	∅ 10	∅ 10	∅ 10	∅ 10
11A	∅ 11	∅ 11	∅ 11	∅ 11	∅ 11	∅ 11	∅ 11	∅ 11	∅ 11	∅ 11	∅ 11	∅ 11	∅ 11	∅ 11
12A	∅ 12	∅ 12	∅ 12	∅ 12	∅ 12	∅ 12	∅ 12	∅ 12	∅ 12	∅ 12	∅ 12	∅ 12	∅ 12	∅ 12
13A	∅ 13	∅ 13	∅ 13	∅ 13	∅ 13	∅ 13	∅ 13	∅ 13	∅ 13	∅ 13	∅ 13	∅ 13	∅ 13	∅ 13
14A	∅ 14	∅ 14	∅ 14	∅ 14	∅ 14	∅ 14	∅ 14	∅ 14	∅ 14	∅ 14	∅ 14	∅ 14	∅ 14	∅ 14

EX.: 1A, 2A, ETC. = LOOP NO.'S
FS = FLASH SENSE
ST = STOP TIME

LOAD RESISTOR INSTALLATION DETAIL



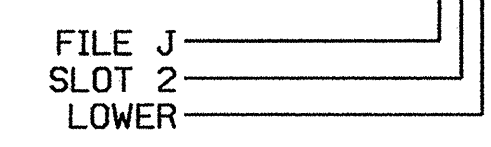
NOTE: THE PURPOSE OF THIS RESISTOR IS TO LOAD THE CHANNEL RED MONITOR INPUT IN ORDER FOR THE SIGNAL SEQUENCE MONITOR TO USE THE FULL SIGNAL SEQUENCE MONITORING CAPABILITY ON CHANNELS THAT DO NOT USE THE RED DISPLAY IN THE FIELD.

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	TB2-1,2	I1U	56	18	1	1	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			
4B	TB6-3,4	I7L	78	40	44	4	Y	Y			
5A	TB3-1,2	J1U	55	17	5	5	Y	Y			3
5B	TB3-5,6	J2U	40	2	6	5	Y	Y		1	15
6A	TB3-9,10	J3U	64	26	36	6	Y	Y			
6B	TB3-11,12	J3L	77	39	46	6	Y	Y			
7A ¹	TB5-9,10	J6U	42	4	8	4	Y	Y			3
	TB5-11,12	J6L	46	8	18	7	Y	Y			15
8A	TB7-1,2	J7U	66	28	38	8	Y	Y			3
8B	TB7-3,4	J7L	79	41	48	8	Y	Y			10
8C	TB5-1,2	J4U	48	10	26	8	Y	Y			15

¹ ADD JUMPERS FROM TB5-9 TO TB5-11, AND FROM TB5-10 TO TB5-12.

INPUT FILE POSITION LEGEND: J2L



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 06-0610T2
DESIGNED: MAY 2003
SEALED: 10/22/03
REVISED: 8/15/06

SIGNAL UPGRADE: PHASE III TEMPORARY DESIGN 2

ELECTRICAL AND PROGRAMMING DETAILS FOR:

NC 59 (NORTH MAIN STREET) AT HOPE MILLS BYPASS

Prepared in the Offices of: **WILLIAM HAIRSTON** (Professional Engineer, License No. 022013)

PLAN DATE: SEPTEMBER 2003 REVIEWED BY: T. JOYCE
PREPARED BY: WILLIAM HAIRSTON REVIEWED BY: T. JOYCE

REVISIONS: 1. Revised eastbound left to protect/permissive. After rd. YEL. TIME-2. AM 9/3/06. 015 8/15/06

INIT. DATE: T. JOYCE 8/15/06

Signature: **William C. Brown** (Professional Engineer, License No. 022013)

SIG. INVENTORY NO. 06-0610T2