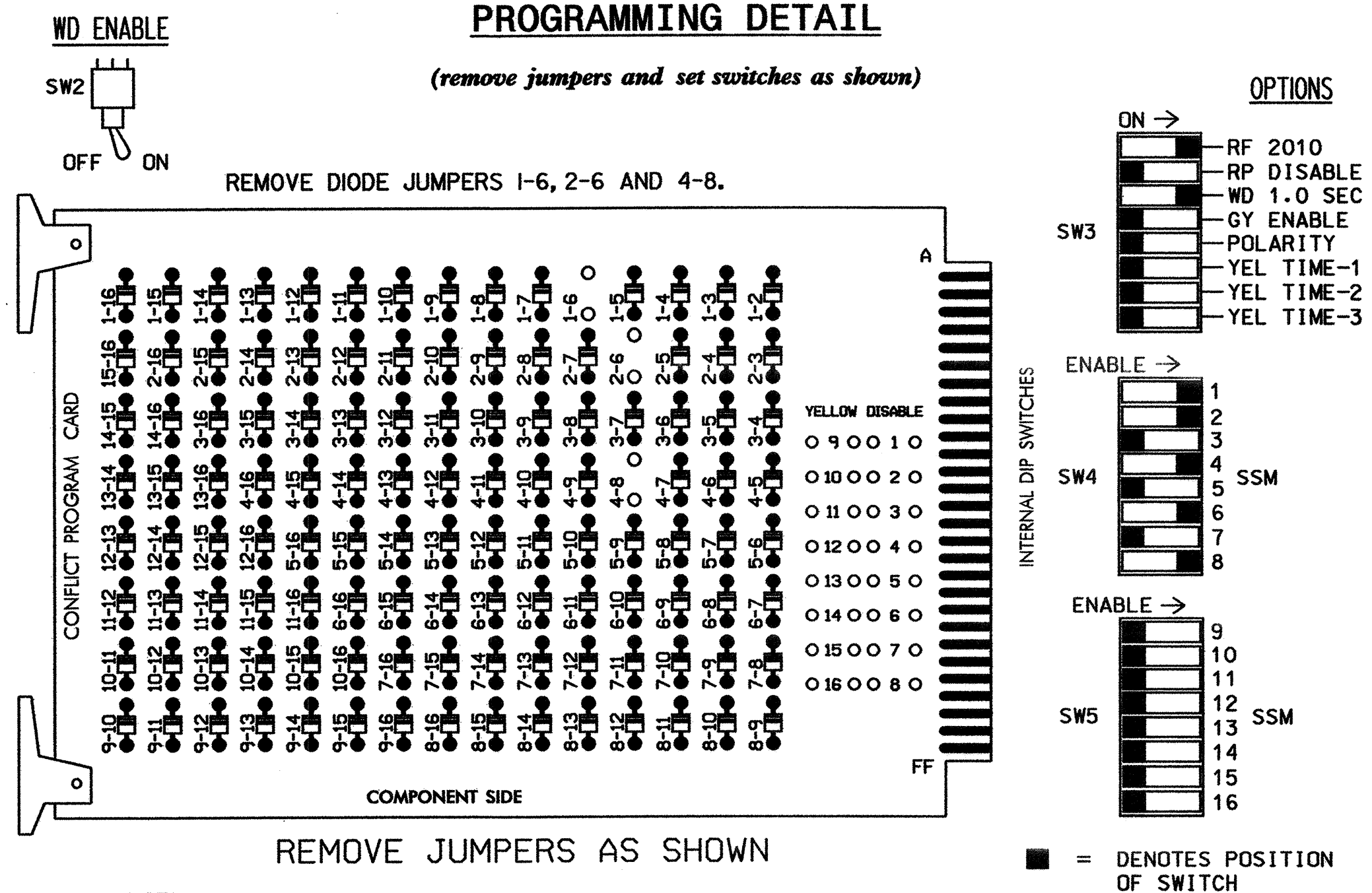


**EDI MODEL 2010ECL CONFLICT MONITOR**

**PROGRAMMING DETAIL**



**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 3,5,7, 9,10,11,12,13,14,15 and 16 to load switch AC+ per the cabinet manufacturer's instructions.
- Program phases 2 and 6, on the controller unit, for Start Up In Green.
- Enable Simultaneous Gap-Out, on the controller unit, for all phases.
- Program phases 4 and 8, on the controller unit, for Dual Entry.
- Program phases 2 and 6, on the controller unit, for Variable Initial and Gap Reduction.

CONTROLLER.....CONTRACTOR SUPPLIED 2070L  
 CABINET.....CONTRACTOR SUPPLIED 336  
 SOFTWARE.....ECONOLITE OASIS  
 CABINET MOUNT.....POLE  
 OUTPUT FILE POSITIONS...12  
 LOAD SWITCHES USED.....S1,S2,S4,S6,S8  
 PHASES USED.....1,2,4,6,8  
 OVERLAPS.....NONE

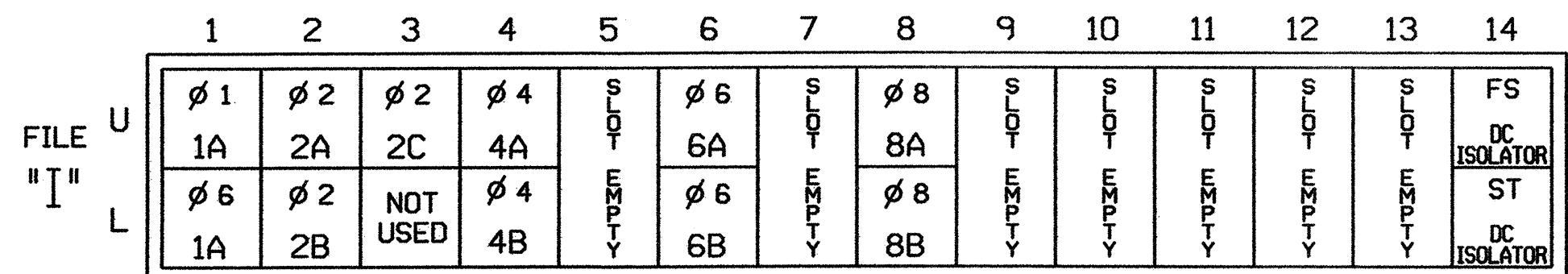
**SIGNAL HEAD HOOK-UP CHART**

| 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 | NU    | NU | 41,42 | NU    | NU | 61,62 | NU    | NU | 81,82 | NU    |
| RED             | *   | 128   |       |    | 101   |       |    | 134   |       |    | 107   |       |
| YELLOW          |     | 129   |       |    | 102   |       |    | 135   |       |    | 108   |       |
| GREEN           |     | 130   |       |    | 103   |       |    | 136   |       |    | 109   |       |
| RED ARROW       |     |       |       |    |       |       |    |       |       |    |       |       |
| YELLOW ARROW    | 126 |       |       |    |       |       |    |       |       |    |       |       |
| GREEN ARROW     | 127 |       |       |    |       |       |    |       |       |    |       |       |
|                 |     |       |       |    |       |       |    |       |       |    |       |       |
|                 |     |       |       |    |       |       |    |       |       |    |       |       |

NU = Not Used  
 \* Denotes install load resistor. See load resistor installation detail this sheet.

**INPUT FILE POSITION LAYOUT**

(front view)

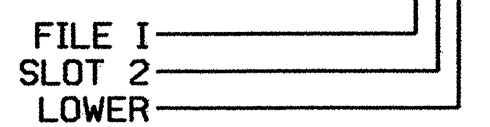


EX.: 1A, 2A, ETC. = LOOP NO.'S  
 FS = FLASH SENSE  
 ST = STOP TIME

**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 |
|----------|---------------|-----------------|---------|----------------------|--------------|------------|------|--------|-----------------|--------------|------------|
| 1A       | TB21-1,2      | I1U             | 56      | 18                   | 1            | 1          | Y    | Y      |                 |              | 15         |
|          | TB23-1,2      | I1L             | 47      | 9                    | 22           | 6          | Y    | Y      | Y               |              | 3          |
| 2A       | TB21-3,4      | I2U             | 39      | 1                    | 2            | 2          | Y    | Y      |                 |              |            |
|          | TB23-3,4      | I2L             | 43      | 5                    | 12           | 2          | Y    | Y      |                 |              |            |
| 2C       | TB21-5,6      | I3U             | 58      | 20                   | 3            | 2          | Y    | Y      | Y               |              | 3          |
| 4A       | TB21-7,8      | I4U             | 41      | 3                    | 4            | 4          | Y    | Y      |                 |              | 10         |
| 4B       | TB23-7,8      | I4L             | 45      | 7                    | 14           | 4          | Y    | Y      |                 |              | 15         |
| 6A       | TB21-11,12    | I6U             | 40      | 2                    | 6            | 6          | Y    | Y      |                 |              |            |
| 6B       | TB23-11,12    | I6L             | 44      | 6                    | 16           | 6          | Y    | Y      |                 |              |            |
| 8A       | TB22-1,2      | I8U             | 42      | 4                    | 8            | 8          | Y    | Y      |                 |              | 10         |
| 8B       | TB24-1,2      | I8L             | 46      | 8                    | 18           | 8          | Y    | Y      |                 |              | 15         |

**INPUT FILE POSITION LEGEND: I2L**



**DYNAMIC BACK-UP CONTROL PROGRAMMING**

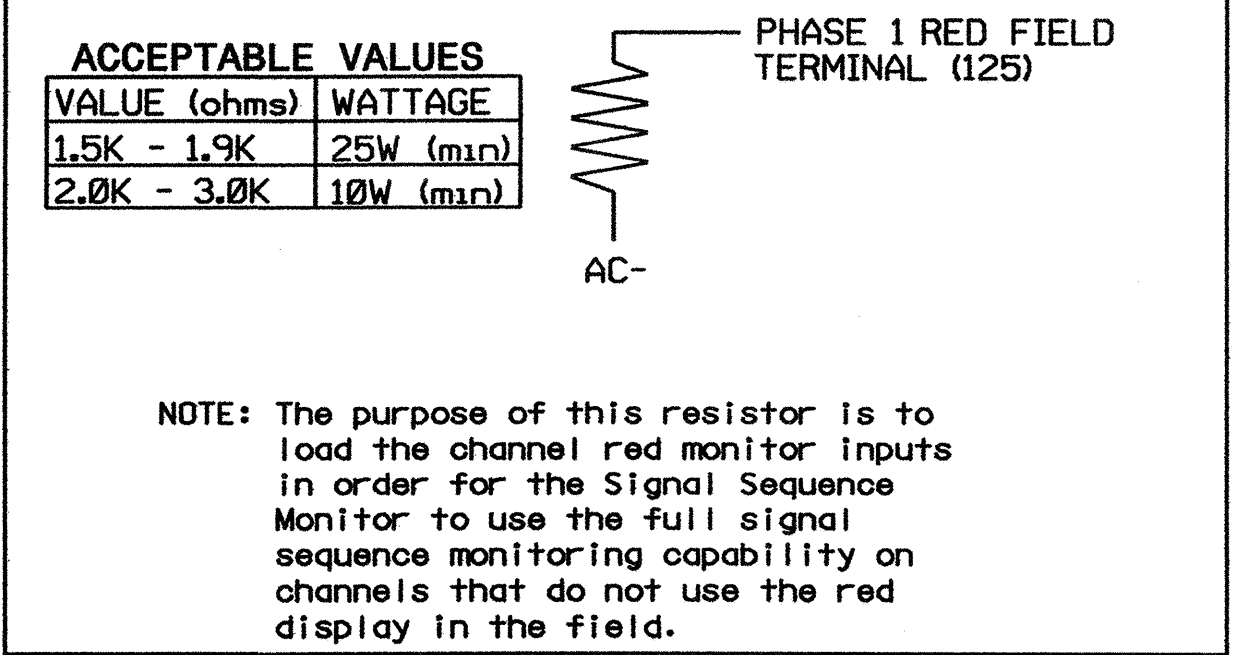
(program controller as shown below)

- 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: ABCDEFGHIJKLMNOP  
 IF OVERLAPS ARE ACTIVE: |  
 OR PHASES: 12345678910111213141516  
 IF PHASES ARE ON: | X  
 OMIT PHASES: | X  
 CALL PHASES: | X

BACKUP PROTECTION PROGRAMMING COMPLETE

**LOAD RESISTOR INSTALLATION DETAIL**



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 05-1214  
 DESIGNED: November 2005  
 SEALED: 12-22-05  
 REVISED: N/A

**Temporary Signal - To Be Removed**

ELECTRICAL AND PROGRAMMING DETAILS FOR:

US 501 (Roxboro Road) at SR 1618 (Jones Road)/ Entrance to Little River School

Division 5 Durham County near Durham

PLAN DATE: 12-9-05 REVIEWED BY: D.T. Joyce

PREPARED BY: D.H. Spaulding REVIEWED BY:

REVISIONS INIT. DATE

222 N. McDowell St., Raleigh, NC 27603

Prepared in the Offices of:

SEAL:

SIGNATURE:

SIG. INVENTORY NO. 05-1214

03-JAN-2006 12:03  
 ut:\p\progress\051214\_sm\_e\le\_2005xx.dgn  
 jspaulding