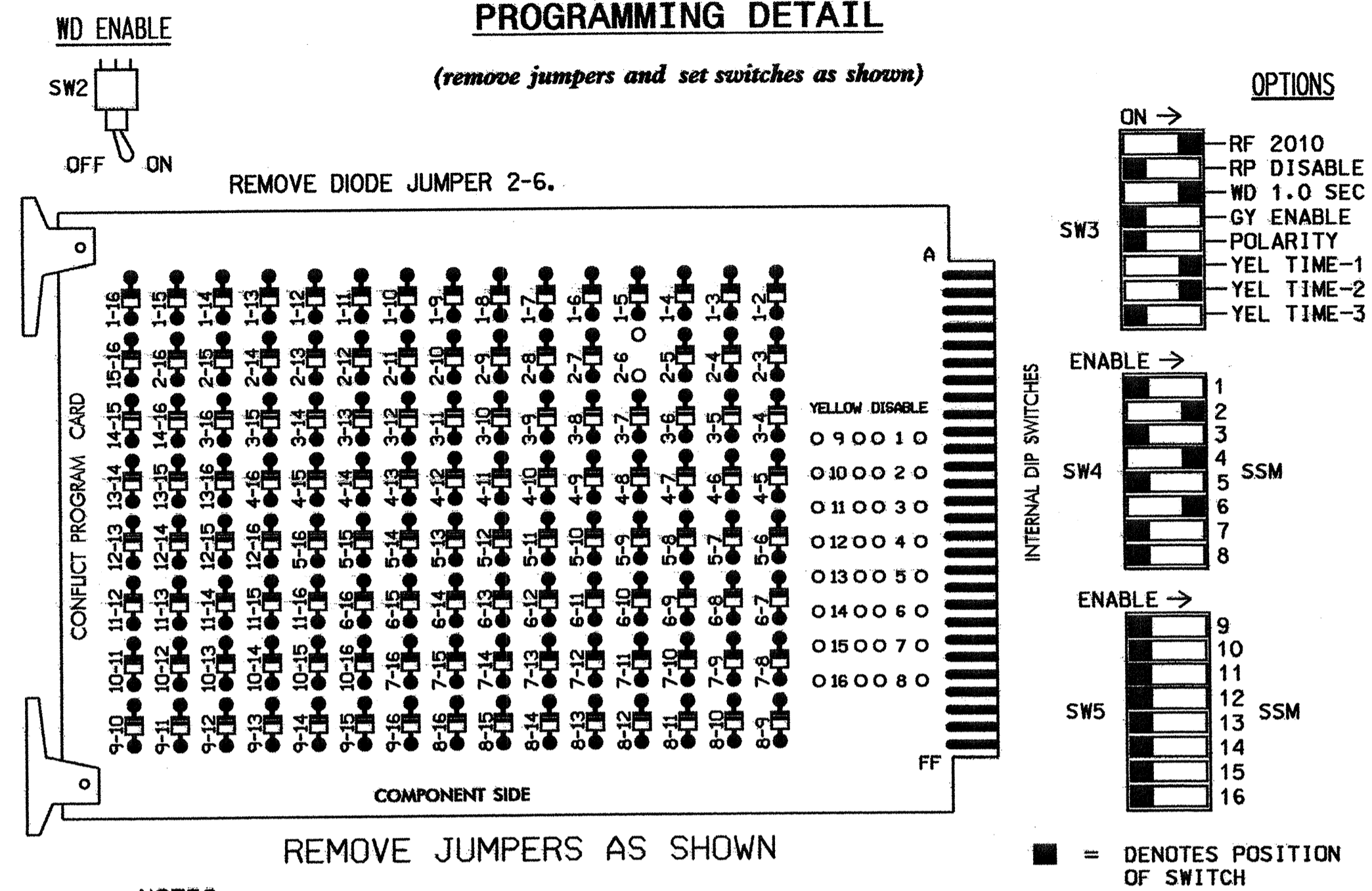


**EDI MODEL 2010ECL CONFLICT MONITOR**

**PROGRAMMING DETAIL**

(remove jumpers and set switches as shown)



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.
- ENSURE THAT RED ENABLE IS ACTIVE AT ALL TIMES DURING NORMAL OPERATION.

**NOTES**

- TO PREVENT "FLASH-CONFLICT" PROBLEMS, INSERT RED FLASH PROGRAM BLOCKS FOR ALL UNUSED VEHICLE LOAD SWITCHES IN OUTPUT FILE. VERIFY THAT SIGNAL HEADS FLASH IN ACCORDANCE WITH THE SIGNAL PLANS.
- TO PREVENT RED FAILURES ON UNUSED MONITOR CHANNELS 1,3,5,7, 8,9,10,11,12,13,14,15 & 16, TIE UNUSED LOAD SWITCH RED OUTPUTS TO LOAD SWITCH AC+ PER CABINET MANUFACTURER'S INSTRUCTIONS.
- PROGRAM THE CONTROLLER TO START UP IN PHASES 2 AND 6 GREEN.
- SET POWER-UP FLASH TIME TO 10 SECONDS AND IMPLEMENT WITHIN THE CONTROLLER PROGRAMMING.
- ENABLE SIMULTANEOUS GAP-OUT FEATURE, ON CONTROLLER UNIT, FOR ALL PHASES.
- THE CABINET AND CONTROLLER ARE A PART OF THE DURHAM SIGNAL SYSTEM.

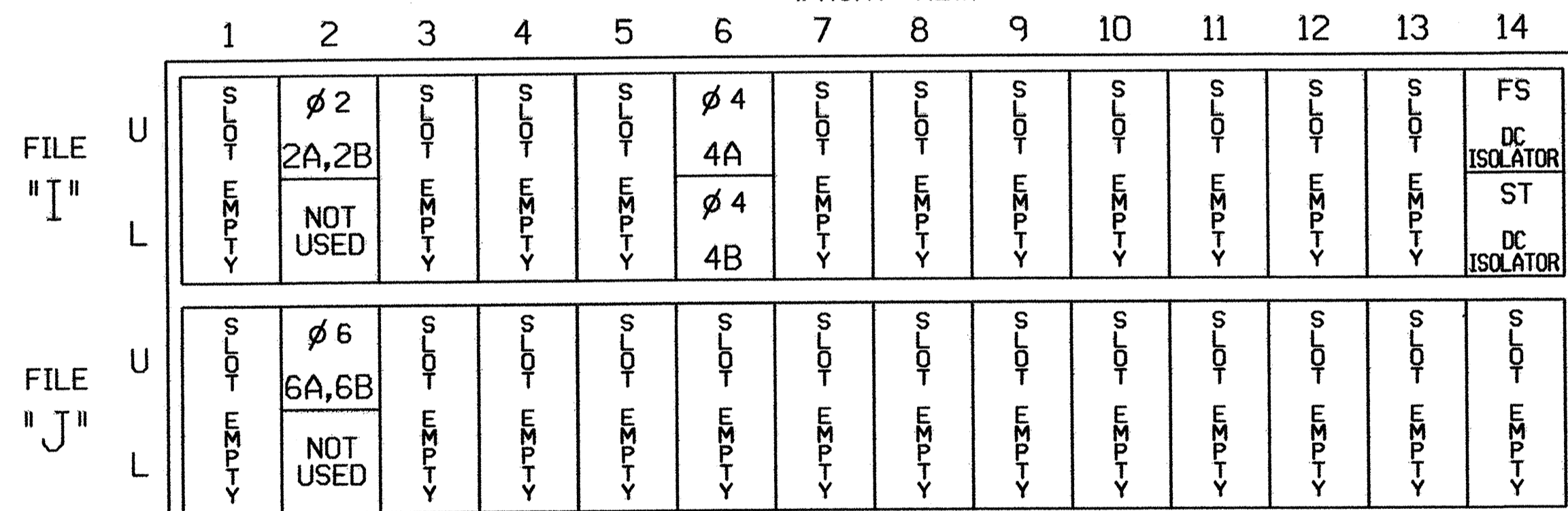
**FIELD CONNECTION HOOK-UP CHART**

| 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. | NU | 21,22 | NU    | NU | 41<br>42,43 | NU    | NU | 61,62 | NU    | NU | NU | NU    |
| GREEN           |    | 130   |       |    | 103         |       |    | 136   |       |    |    |       |
| YELLOW          |    | 129   |       |    | 102         |       |    | 135   |       |    |    |       |
| RED             |    | 128   |       |    | 101         |       |    | 134   |       |    |    |       |
| RED ARROW       |    |       |       |    |             |       |    |       |       |    |    |       |
| YELLOW ARROW    |    |       |       |    |             |       |    |       |       |    |    |       |
| GREEN ARROW     |    |       |       |    |             |       |    |       |       |    |    |       |

NU = NOT USED

**INPUT FILE POSITION LAYOUT**

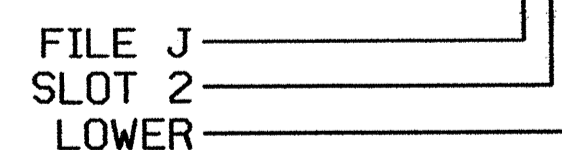
(FRONT VIEW)



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

FS = FLASH SENSE  
ST = STOP TIME

**INPUT FILE POSITION LEGEND: J2L**



**DETECTOR ATTRIBUTES LEGEND:**

- FULL TIME DELAY
- PED CALL
- RESERVED
- COUNTING
- EXTENSION
- TYPE 3
- CALLING
- ALTERNATE

**INPUT FILE CONNECTION & PROGRAMMING CHART**

| LOOP NO. | LOOP TERMINAL | INPUT FILE POS. | DETECTOR NO. | PIN NO. | ATTRIBUTES | NEMA PHASE |
|----------|---------------|-----------------|--------------|---------|------------|------------|
| 2A,2B    | TB2-5,6       | I2U             | 1            | 39      | 5 7        | 2          |
| 4A       | TB4-9,10      | I6U             | 2            | 41      | 5 7        | 4          |
| 4B       | TB4-11,12     | I6L             | 3            | 45      | 5 7        | 4          |
| 6A,6B    | TB3-5,6       | J2U             | 4            | 40      | 5 7        | 6          |

NOTE: PROGRAM DETECTOR DELAY AND CARRYOVER TIMES AS SPECIFIED ON SIGNAL DESIGN PLANS.

**EQUIPMENT INFORMATION**

CONTROLLER.....CONTRACTOR SUPPLIED 170E  
CABINET .....CONTRACTOR SUPPLIED 332  
SOFTWARE .....BI TRANS 233NC2  
CABINET MOUNT.....BASE  
OUTPUT FILE POSITIONS...12  
LOAD SWITCHES USED.....S2,S4,S6  
PHASES USED.....2,4,6  
OVERLAPS.....NONE

THIS ELECTRICAL DETAIL IS FOR  
THE SIGNAL DESIGN: 05-0486  
DESIGNED: JANUARY 2004  
SEALED: 02-17-04  
REVISED:

**TYPE 170 CONTROLLER & 332 CABINET**

**SIGNAL UPGRADE**

Electrical and Programming Details For:

Prepared in the Office of:  
  
 122 N. McDowell St., Raleigh, NC 27603

**NC 98 (HOLLOWAY STREET) AT US 70 EASTBOUND RAMP**

DIVISION 05 DURHAM COUNTY DURHAM

PLAN DATE: FEBRUARY 2004 REVIEWED BY: T. Joyce

PREPARED BY: JAMES PETERSON REVIEWED BY:

| REVISIONS | INIT. | DATE |
|-----------|-------|------|
|           |       |      |

Signature: *James C. Peterson* DATE: 4/2/04

SIG. INVENTORY NO. 05-0486