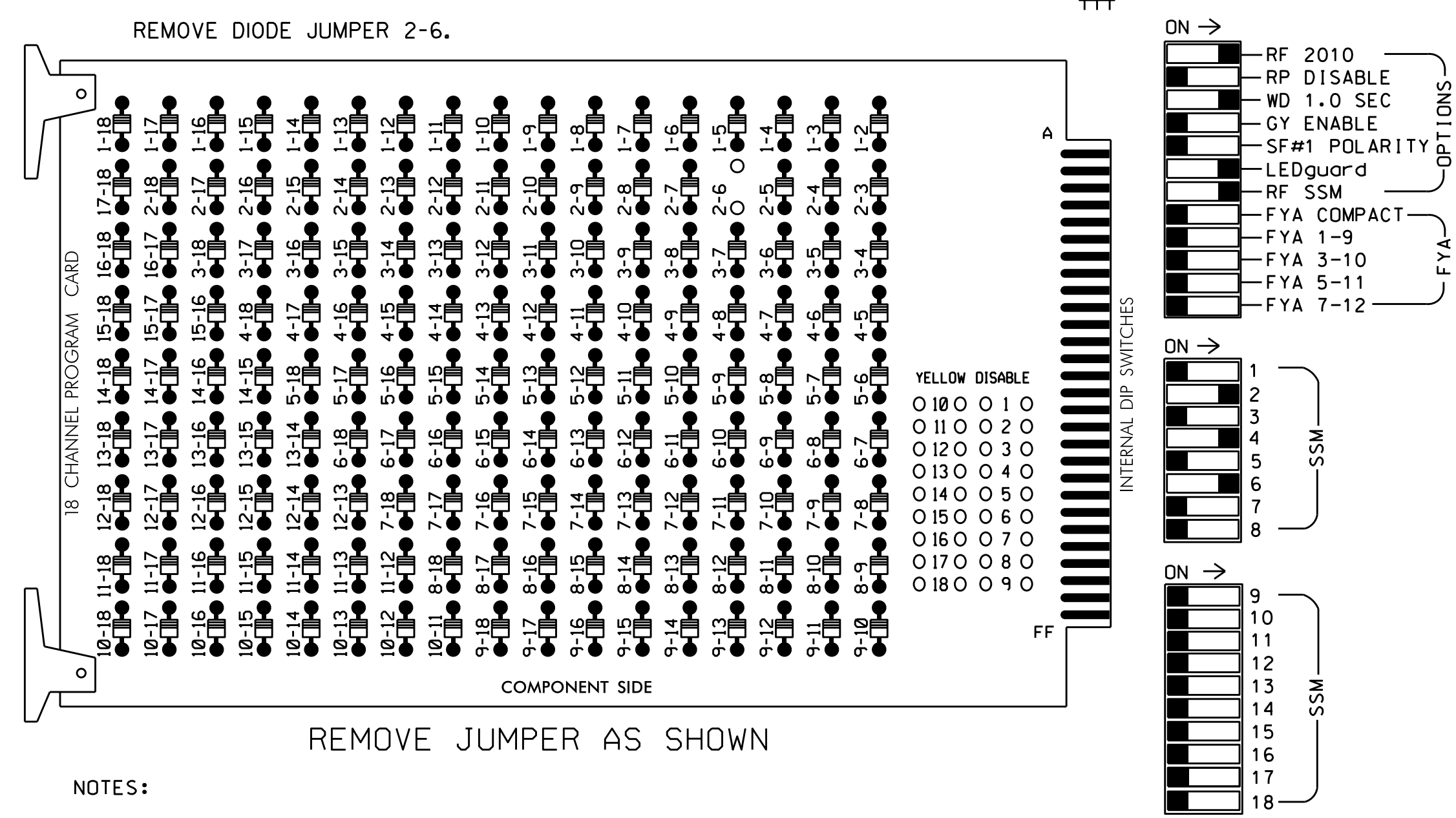


**EDI MODEL 2018ECL-NC CONFLICT MONITOR  
PROGRAMMING DETAIL**

(remove jumper and set switches as shown)



**NOTES:**

1. Card is provided with all diode jumpers in place. Removal of any jumper allows its channels to run concurrently.
2. Ensure jumpers SEL2-SEL5 and SEL9 are present on the monitor board.
3. Ensure that Red Enable is active at all times during normal operation.
4. Connect serial cable from conflict monitor to comm. port 1 of 2070 controller. Ensure conflict monitor communicates with 2070.

■ = DENOTES POSITION OF SWITCH

**NOTES**

1. 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.
2. Enable Simultaneous Gap-Out for all phases.
3. Program phase 6 for Variable Initial.
4. Program phases 2 and 6 for Gap Reduction.
5. Program phases 2 and 6 for Start Up In Green.
6. Program phases 2 and 6 for Yellow Flash.

**EQUIPMENT INFORMATION**

CONTROLLER.....2070  
 CABINET.....332 W/ AUX  
 SOFTWARE.....ECONOLITE OASIS  
 CABINET MOUNT.....BASE  
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE  
 LOAD SWITCHES USED.....S2,S5,S8  
 PHASES USED.....2,4,6  
 OVERLAP "A".....NOT USED  
 OVERLAP "B".....NOT USED  
 OVERLAP "C".....NOT USED  
 OVERLAP "D".....NOT USED

**SIGNAL HEAD HOOK-UP CHART**

| LOAD SWITCH NO. | S1 | S2    | S3    | S4 | S5    | S6    | S7 | S8    | S9    | S10 | S11 | S12   | AUX S1 | AUX S2 | AUX S3 | AUX S4 | AUX S5 | AUX S6 |
|-----------------|----|-------|-------|----|-------|-------|----|-------|-------|-----|-----|-------|--------|--------|--------|--------|--------|--------|
| CMU CHANNEL NO. | 1  | 2     | 13    | 3  | 4     | 14    | 5  | 6     | 15    | 7   | 8   | 16    | 9      | 10     | 17     | 11     | 12     | 18     |
| PHASE           | 1  | 2     | 2 PED | 3  | 4     | 4 PED | 5  | 6     | 6 PED | 7   | 8   | 8 PED | OLA    | OLB    | SPARE  | OLC    | OLD    | SPARE  |
| SIGNAL HEAD NO. | NU | 21,22 | NU    | NU | 41,42 | NU    | NU | 61,62 | NU    | NU  | NU  | NU    | NU     | NU     | NU     | NU     | NU     | NU     |
| RED             |    | 128   |       |    | 101   |       |    | 134   |       |     |     |       |        |        |        |        |        |        |
| YELLOW          |    | 129   |       |    | 102   |       |    | 135   |       |     |     |       |        |        |        |        |        |        |
| GREEN           |    | 130   |       |    | 103   |       |    | 136   |       |     |     |       |        |        |        |        |        |        |
| RED ARROW       |    |       |       |    |       |       |    |       |       |     |     |       |        |        |        |        |        |        |
| YELLOW ARROW    |    |       |       |    |       |       |    |       |       |     |     |       |        |        |        |        |        |        |
| GREEN ARROW     |    |       |       |    |       |       |    |       |       |     |     |       |        |        |        |        |        |        |

NU = Not Used

**INPUT FILE POSITION LAYOUT**

(front view)

| FILE "I" | 1           | 2   | 3           | 4           | 5           | 6           | 7           | 8           | 9           | 10          | 11          | 12          | 13          | 14          |
|----------|-------------|-----|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| U        | FS          | ∅ 2 | FS          | FS          | FS          | ∅ 4         | FS          | FS          | FS          | FS          | FS          | FS          | FS          | FS          |
| L        | DC ISOLATOR | 2A  | DC ISOLATOR | DC ISOLATOR | DC ISOLATOR | 4A,4B       | DC ISOLATOR | DC ISOLATOR | DC ISOLATOR | DC ISOLATOR | DC ISOLATOR | DC ISOLATOR | DC ISOLATOR | DC ISOLATOR |
| U        | FS          | ∅ 6 | FS          | FS          | FS          | FS          | FS          | FS          | FS          | FS          | FS          | FS          | FS          | FS          |
| L        | DC ISOLATOR | 6A  | DC ISOLATOR | DC ISOLATOR | DC ISOLATOR | DC ISOLATOR | DC ISOLATOR | DC ISOLATOR | DC ISOLATOR | DC ISOLATOR | DC ISOLATOR | DC ISOLATOR | DC ISOLATOR | DC ISOLATOR |

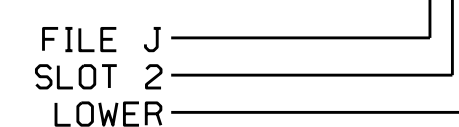
EX.: 1A, 2A, ETC. = LOOP NO.'S

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 |
|----------|---------------|-----------------|---------|----------------------|--------------|------------|------|--------|-----------------|--------------|------------|
| 2A       | TB2-5,6       | I2U             | 39      | 1                    | 2            | 2          | Y    | Y      |                 |              |            |
| 2B       | TB2-7,8       | I2L             | 43      | 5                    | 12           | 2          | Y    | Y      | Y               | 2.0          | 5          |
| 4A,4B    | TB4-9,10      | I6U             | 41      | 3                    | 4            | 4          | Y    | Y      |                 |              | 10         |
| 6A       | TB3-5,6       | J2U             | 40      | 2                    | 6            | 6          | Y    | Y      |                 |              |            |

INPUT FILE POSITION LEGEND: J2L



THIS ELECTRICAL DETAIL IS FOR  
 THE SIGNAL DESIGN: 10-0395T1  
 DESIGNED: April 2016  
 SEALED: 6/22/2016  
 REVISED: N/A

Electrical Detail - Temp Design - TMP Phase I

DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED

Prepared in the Offices of:  
  
 750 N. Greenfield Pkwy, Garner, NC 27529

NC 3 (Mooresville Road)  
 at  
 SR 1643 (Rainbow Drive)

Division 10 Cabarrus County Kannapolis  
 PLAN DATE: June 2016 REVIEWED BY: BAS  
 PREPARED BY: S. Armstrong REVIEWED BY:

REVISIONS INIT. DATE

DocuSigned by:  
  
 Keith M. Mins 6/22/2016  
 2F80786EBCD3445 DATE

SIG. INVENTORY NO. 10-0395T1

2016-06-20 11:38 S:\1\2531\15\_Signal\work\housas\g\_mh\armstrong\00395\_sm.elec.xxx.dgn sarmsr00g