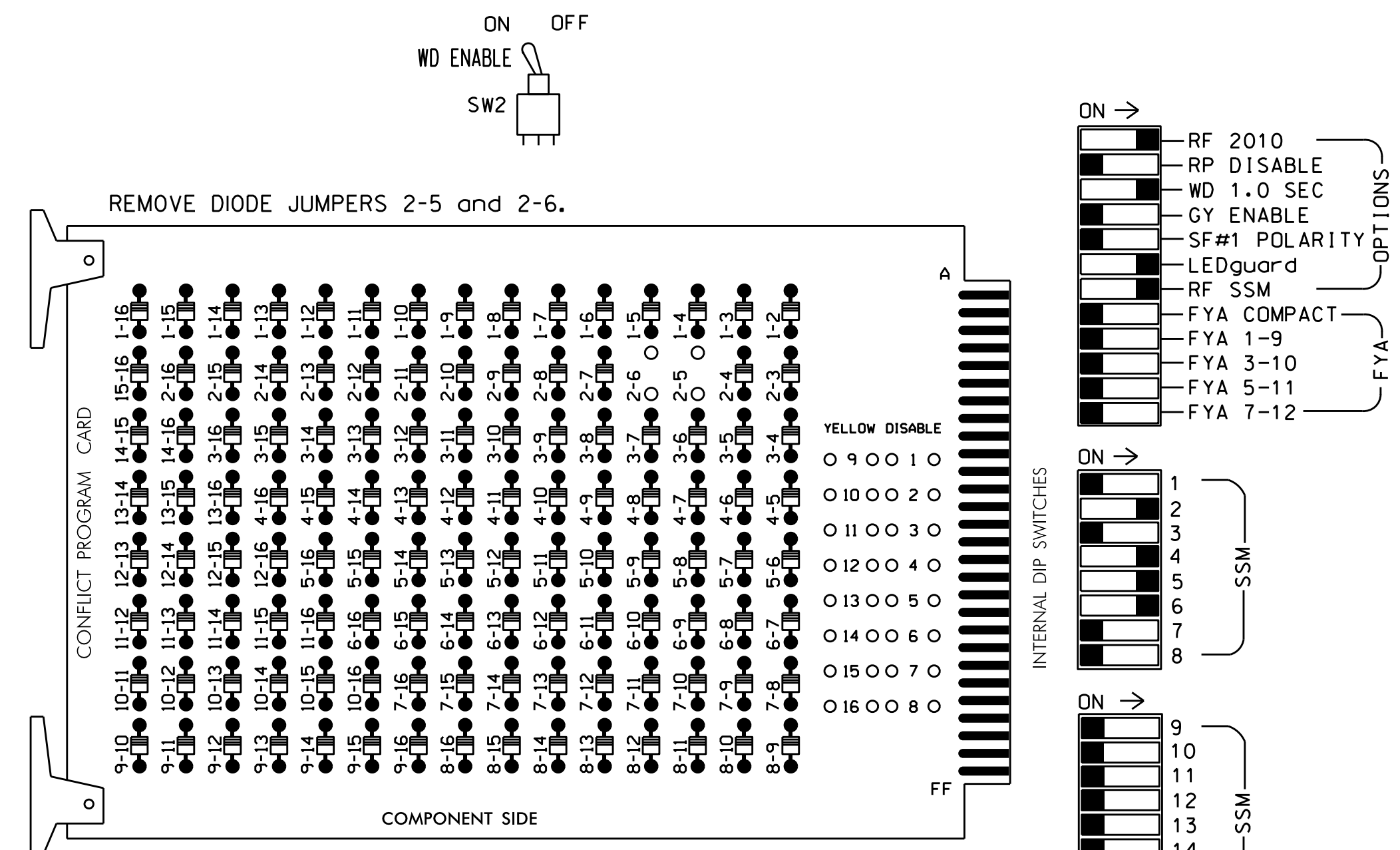


EDI MODEL 2010ECL-NC CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers 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. Make sure jumpers SEL2-SEL5 are present on the monitor board.

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. 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 1,3,7,8,9,10,11,12,13,14,15 & 16 to load switch AC+ per the cabinet manufacturer's instructions.
3. Enable Simultaneous Gap-Out for all phases.
4. Program phases 2 and 6 for Variable Initial and Gap Reduction.
5. Program phases 2 and 6 for Start Up In Green.
6. Program phases 2 and 6 for Yellow Flash.

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. | NU | 21 22,23 | NU | NU | 41,42 | NU | 51,52 42 | 61 62,63 | NU | NU | NU | NU |
| RED | | 128 | | | 101 | | | 134 | | | | |
| YELLOW | | 129 | | | 102 | | | 135 | | | | |
| GREEN | | 130 | | | 103 | | | 136 | | | | |
| RED ARROW | | | | | | | 131 | | | | | |
| YELLOW ARROW | | | | | | | 132 | 132 | | | | |
| GREEN ARROW | | | | | | | 133 | 133 | | | | |

NU = NOT USED

EQUIPMENT INFORMATION

CONTROLLER.....2070
 CABINET332
 SOFTWAREOASIS
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...12
 LOAD SWITCHES USED.....S2,S4,S5,S6
 PHASES USED.....2,4,5,6
 OVERLAPS.....NONE

INPUT FILE POSITION LAYOUT

(front view)

| FILE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|------|-------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------|
| U | SLOT | ∅ 2 | SLOT | SLOT | SLOT | ∅ 4 | SLOT | SLOT | SLOT | SLOT | SLOT | SLOT | SLOT | FS |
| "I" | EMPTY | 2A | EMPTY | EMPTY | EMPTY | 4A | EMPTY | EMPTY | EMPTY | EMPTY | EMPTY | EMPTY | EMPTY | DC ISOLATOR |
| L | | 2B | | | | 4B | | | | | | | | ST |
| U | ∅ 5 | ∅ 6 | ∅ 5 | SLOT | SLOT | SLOT | SLOT | SLOT | SLOT | SLOT | SLOT | SLOT | SLOT | SLOT |
| "J" | 5A | 6A | 5C | EMPTY | EMPTY | EMPTY | EMPTY | EMPTY | EMPTY | EMPTY | EMPTY | EMPTY | EMPTY | EMPTY |
| L | 5B | 6B | USED | | | | | | | | | | | |

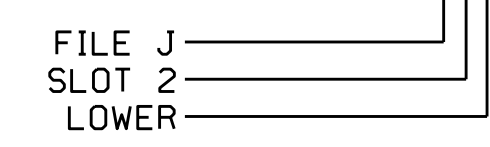
EX. : 1A, 2A, ETC. = LOOP NO.'S

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 |
|----------|---------------|-----------------|---------|----------------------|--------------|------------|------|--------|-----------------|--------------|------------|
| 2A | TB2-5,6 | I2U | 39 | 1 | 2 | 2 | Y | Y | | | |
| 2B | TB2-7,8 | I2L | 43 | 5 | 12 | 2 | Y | Y | | | |
| 4A | TB4-9,10 | I6U | 41 | 3 | 4 | 4 | Y | Y | | | |
| 4B | TB4-11,12 | I6L | 45 | 7 | 14 | 4 | Y | Y | | | |
| 5A | TB3-1,2 | J1U | 55 | 17 | 5 | 5 | Y | Y | | | |
| 5B | TB3-3,4 | J1L | 55 | 17 | 5 | 5 | Y | Y | | | |
| 6A | TB3-5,6 | J2U | 40 | 2 | 6 | 6 | Y | Y | | | |
| 6B | TB3-7,8 | J2L | 44 | 6 | 16 | 6 | Y | Y | | | |
| 5C | TB3-9,10 | J3U | 64 | 26 | 36 | 5 | Y | Y | | | 15 |

INPUT FILE POSITION LEGEND: J2L



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 10-1808T
 DESIGNED: April 2016
 SEALED: 6/20/2016
 REVISED: N/A

Electrical Detail - Temp Design - TMP Phase II

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared In the Offices of:
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 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 Signal Management Section
 750 N. Greenfield Pkwy, Garner, NC 27529

NC 3 (Mooresville Road) at Kannapolis Parkway

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. Minus 6/22/2016
 2F8078EBCD3445 DATE

SIG. INVENTORY NO. 10-1808T

22-june-2016 08:48
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