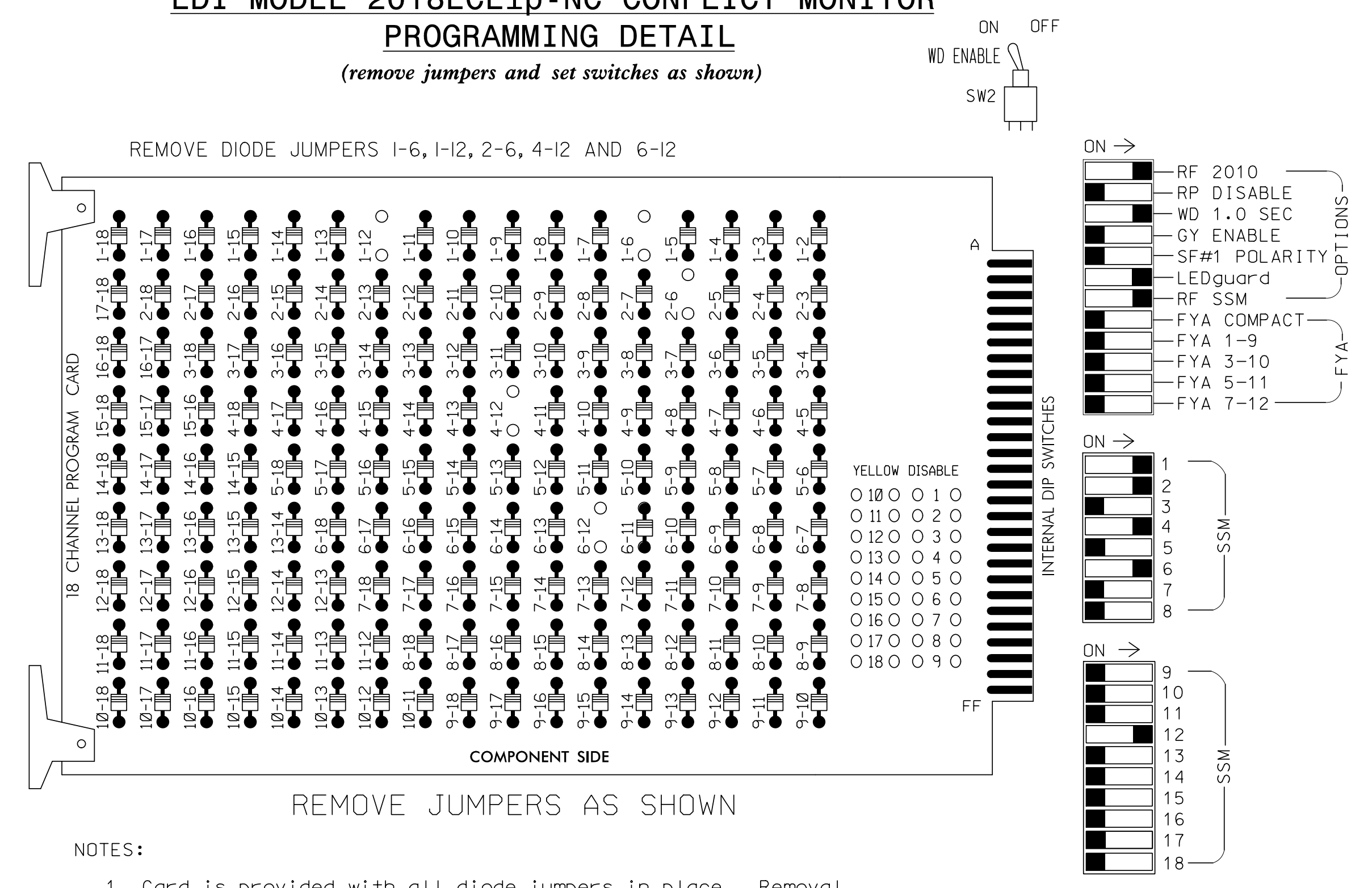


EDI MODEL 2018ECLIP-NC CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)



- NOTES:
- Card is provided with all diode jumpers in place. Removal of any jumper allows its channels to run concurrently.
 - Ensure jumpers SEL2-SEL5 and SEL9 are present on the monitor board.
 - Ensure that Red Enable is active at all times during normal operation.
 - Integrate monitor with Ethernet network in cabinet.

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.
- Enable Simultaneous Gap-Out for all phases.
- Program phases 2 and 6 for volume density operation.
- Program controller to start up in phase 2 Green and 6 Green.
- The cabinet and controller are part of the Fayetteville Signal System.

EQUIPMENT INFORMATION

CONTROLLER.....2070E
 CABINET.....332 W/AUX
 SOFTWARE.....ECONOLITE ASC/3-2070
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE
 LOAD SWITCHES USED.....S1,S2,S5,S8,AUX S5
 PHASES USED.....1,2,4,6
 OVERLAP "A".....NOT USED
 OVERLAP "B".....NOT USED
 OVERLAP "C".....NOT USED
 OVERLAP "D".....1+4

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. | 11,12 | 21,22 | NU | NU | 22 | 41,42 | NU | NU | 61,62 | NU | NU | NU | NU | NU | NU | NU | 43,44 | NU |
| RED | | 128 | | | | | | | 134 | | | | | | | | | A101 |
| YELLOW | | 129 | | | | | | | 135 | | | | | | | | | |
| GREEN | | 130 | | | | | | | 136 | | | | | | | | | |
| RED ARROW | 125 | | | | | 101 | | | | | | | | | | | | |
| YELLOW ARROW | 126 | | | | 102 | 102 | | | | | | | | | | | | A102 |
| GREEN ARROW | 127 | | | | 103 | 103 | | | | | | | | | | | | A103 |

NU = Not Used

ECONOLITE ASC/3-2070 OVERLAP PROGRAMMING DETAIL

(program controller as shown)

- From Main Menu select **2. CONTROLLER**
 - From CONTROLLER Submenu select **2. VEHICLE OVERLAPS**
- Toggle Three Times
OVERLAP D
- Select TMG VEH OVLP [D] and 'NORMAL'
- TMG VEH OVLP... [D] TYPE: [NORMAL]
 PHASES 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6
 INCLUDED X . . . X
- LAG GRN 0.0 YEL 0.0 RED 0.0
- END PROGRAMMING

INPUT FILE POSITION LAYOUT

(front view)

| FILE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|------|----------|-----|-----|----------|-----|-----|-----|-----|-----|------|------|------|------|------|
| U | ∅ 1 | ∅ 1 | ∅ 1 | ∅ 2 | ∅ 3 | ∅ 4 | ∅ 5 | ∅ 6 | ∅ 7 | ∅ 8 | ∅ 9 | ∅ 10 | ∅ 11 | ∅ 12 |
| L | NOT USED | ∅ 1 | ∅ 2 | NOT USED | ∅ 3 | ∅ 4 | ∅ 5 | ∅ 6 | ∅ 7 | ∅ 8 | ∅ 9 | ∅ 10 | ∅ 11 | ∅ 12 |
| U | ∅ 1 | ∅ 2 | ∅ 3 | ∅ 4 | ∅ 5 | ∅ 6 | ∅ 7 | ∅ 8 | ∅ 9 | ∅ 10 | ∅ 11 | ∅ 12 | ∅ 13 | ∅ 14 |
| L | ∅ 1 | ∅ 2 | ∅ 3 | ∅ 4 | ∅ 5 | ∅ 6 | ∅ 7 | ∅ 8 | ∅ 9 | ∅ 10 | ∅ 11 | ∅ 12 | ∅ 13 | ∅ 14 |

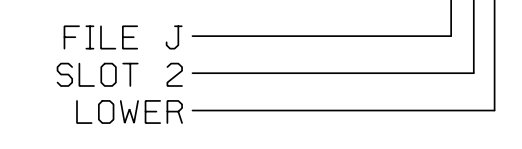
EX.: 1A, 2A, ETC. = LOOP NO.'S

FS = FLASH SENSE
ST = STOP TIME

INPUT FILE CONNECTION & PROGRAMMING CHART

| LOOP NO. | LOOP TERMINAL | INPUT FILE POS. | PIN NO. | DETECTOR NO. | NEMA PHASE | CALL | EXTEND TIME | DELAY TIME | DETECTOR TYPE |
|----------|---------------|-----------------|---------|--------------|------------|------|-------------|------------|---------------|
| 1A | TB2-1,2 | I1U | 56 | 1 | 1 | YES | | | S |
| 1B | TB2-5,6 | I2U | 39 | 2 | 1 | YES | | | S |
| 1C | TB2-7,8 | I2L | 43 | 12 | 1 | YES | | 15 | S |
| 1D | TB2-9,10 | I3U | 63 | 32 | 1 | YES | | 15 | S |
| 2A | TB4-1,2 | I4U | 47 | 22 | 2 | YES | | | N |
| 2B | TB2-11,12 | I3L | 76 | 42 | 2 | YES | | | N |
| 4A | TB4-9,10 | I6U | 41 | 4 | 4 | YES | | 3 | S |
| 4B | TB4-11,12 | I6L | 45 | 14 | 4 | YES | | | S |
| 6A | TB3-5,6 | J2U | 40 | 6 | 6 | YES | | | N |
| 6B | TB3-7,8 | J2L | 44 | 16 | 6 | YES | | | N |

INPUT FILE POSITION LEGEND: J2L



FLASHER CIRCUIT MODIFICATION DETAIL

IN ORDER TO INSURE THAT SIGNALS FLASH CONCURRENTLY ON THE SAME APPROACH, MAKE THE FOLLOWING FLASHER CIRCUIT CHANGES:

- ON REAR OF PDA - REMOVE WIRE FROM TERM. T2-4 AND TERMINATE ON T2-2.
- ON REAR OF PDA - REMOVE WIRE FROM TERM. T2-5 AND TERMINATE ON T2-3.
- REMOVE FLASHER UNIT 2.

THE CHANGES LISTED ABOVE TIES ALL PHASES AND OVERLAPS TO FLASHER UNIT 1.

Electrical Detail

Electrical AND PROGRAMMING DETAILS FOR: SR 1141 (Cumberland Road) at SR 1344 (Natal Street)

Division 6 Cumberland County Fayetteville

PLAN DATE: June 2016 REVIEWED BY: KP Baumann

PREPARED BY: SP Pennington REVIEWED BY: SL Phillips

REVISIONS: INIT. DATE

8/31/2016

SIG. INVENTORY NO. 06-0456

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Seal: NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 032607

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PLANS PREPARED IN THE OFFICE OF:
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 NC License #F-0102
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 Raleigh, NC 27601
 (919) 677-2000

8/31/2016 K:\REAL_T\PROJECTS\EDMALS\4011036345_Foyeh\evl\11e\Electr\Coils\654 - Signal_Design\2nd_Submit\Final\1271_060456-2016e.dgn Susan Pennington