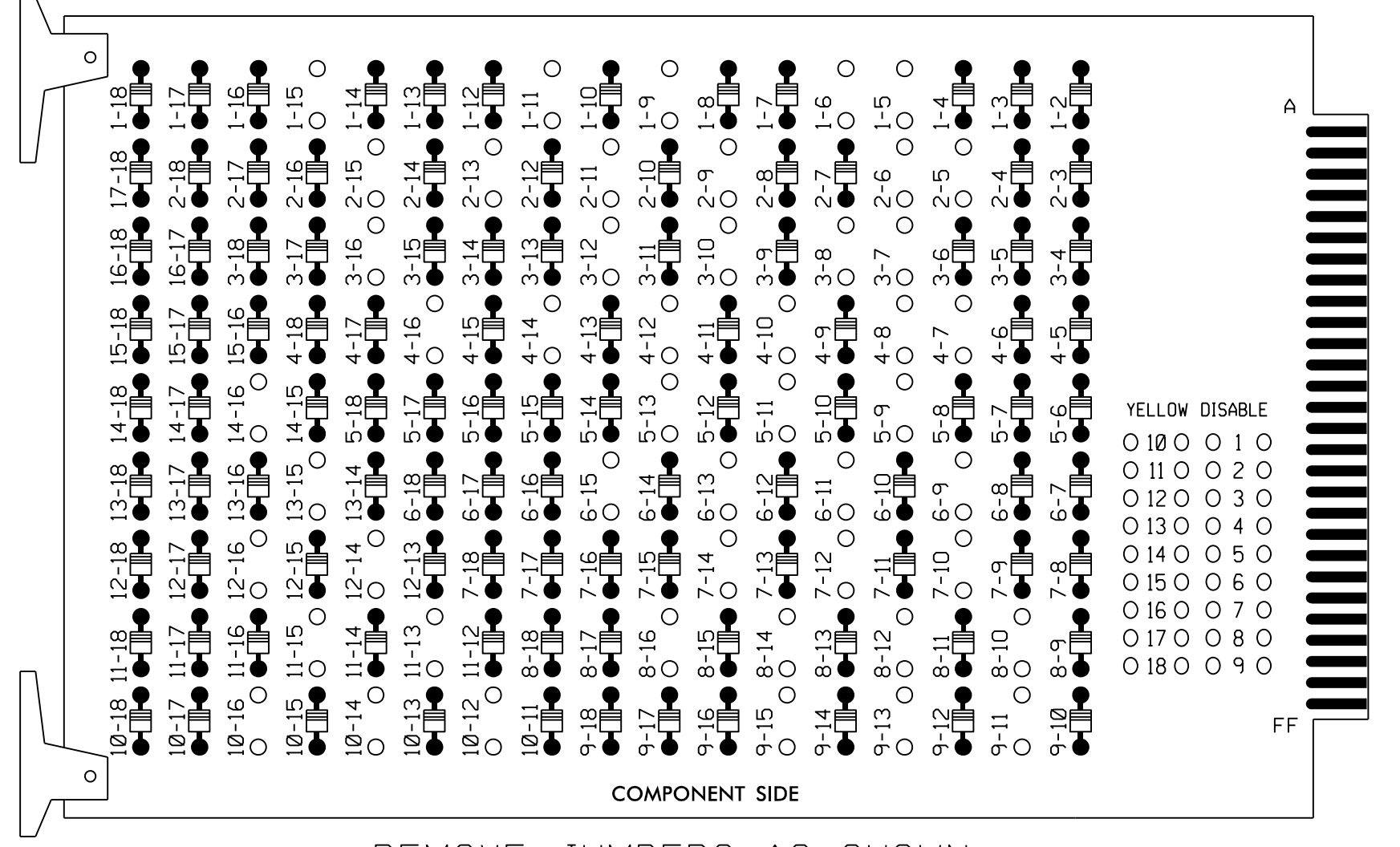


EDI MODEL 2018ECL-NC CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

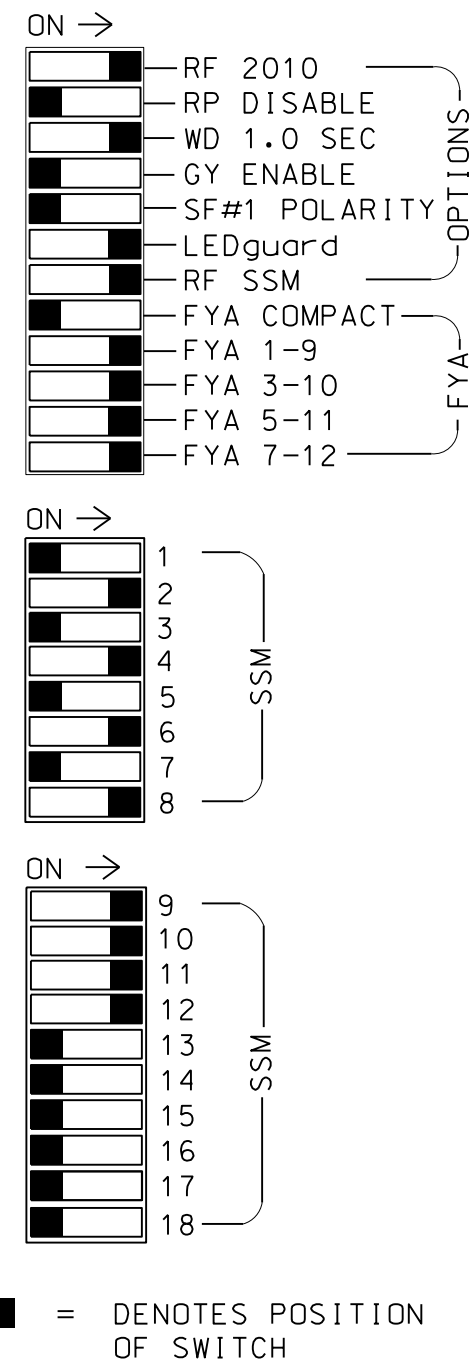
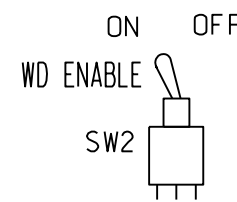
REMOVE DIODE JUMPERS 1-5, 1-6, 1-9, 1-11, 1-15, 2-5, 2-6, 2-9, 2-11, 2-13, 2-15, 3-7, 3-8, 3-10, 3-12, 3-16, 4-7, 4-8, 4-10, 4-12, 4-14, 4-16, 5-9, 5-11, 5-13, 6-9, 6-11, 6-13, 6-15, 7-10, 7-12, 7-14, 8-10, 8-12, 8-14, 8-16, 9-11, 9-13, 9-15, 10-12, 10-14, 10-16, 11-13, 11-15, 12-14, 12-16, 13-15, and 14-16.



REMOVE JUMPERS 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.
- Connect serial cable from conflict monitor to comm. port 1 of 2070 controller. Ensure conflict monitor communicates with 2070.



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.
- Program phases 4 and 8 for Dual Entry.
- Enable Simultaneous Gap-Out for all Phases.
- Program phases 2 and 6 for Variable Initial and Gap Reduction.
- Program phases 2 and 6 for Startup In Green.
- Program phases 2, 4, 6, and 8 for Startup Ped Call.
- Program phases 2 and 6 for Yellow Flash, and overlaps 1 and 2 as Wag Overlaps.
- The cabinet and controller are part of the US 301 (Ward Boulevard) CLS.

EQUIPMENT INFORMATION

CONTROLLER.....2070
 CABINET332 W/ AUX FILE
 SOFTWAREECONOLITE OASIS
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS..18 (12-STD, 6-AUX)
 LOAD SWITCHES USED.....S1,S2,S3,S4,S5,S6,S7,S8,S9,S10,S11,S12
 AUX S1,AUX S2,AUX S4,AUX S5
 PHASES USED.....1,2,3,4,5,6,7,8,2PED,4PED,6PED,8PED
 OVERLAP "A".....1+2
 OVERLAP "B".....3+4
 OVERLAP "C".....5+6
 OVERLAP "D".....7+8

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 | 21,22 | P21, P22 | 31 | 41,42 | P41, P42 | 51 | 61,62 | P61, P62 | 71 | 81,82 | P81, P82 | 11 | 31 | NU | 51 | 71 | NU |
| RED | 128 | | | 101 | | | | 134 | | 107 | | | | | | | | |
| YELLOW | * | 129 | | * | 102 | | | * 135 | | * 108 | | | | | | | | |
| GREEN | | 130 | | | 103 | | | 136 | | | 109 | | | | | | | |
| RED ARROW | | | | | | | | | | | | | A121 | A124 | | A114 | A101 | |
| YELLOW ARROW | | | | | | | | | | | | | A122 | A125 | | A115 | A102 | |
| FLASHING YELLOW ARROW | | | | | | | | | | | | | A123 | A126 | | A116 | A103 | |
| GREEN ARROW | 127 | | | 118 | | | 133 | | | 124 | | | | | | | | |
| Hand | | | | 113 | | | 104 | | | 119 | | | 110 | | | | | |
| Walker | | | | 115 | | | 106 | | | 121 | | | 112 | | | | | |

NU = Not Used

* Denotes install load resistor. See load resistor installation detail this sheet.

★ See pictorial of head wiring in detail this sheet.

INPUT FILE POSITION LAYOUT

(front view)

| FILE "I" | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|----------|----------|----------|------|------|----------|----------|------|------|------|------|------|-------------|-------------|-------------|
| U | ∅ 1 | ∅ 2 | -OFS | -OFS | ∅ 3 | ∅ 4 | -OFS | -OFS | -OFS | -OFS | -OFS | ∅ 2 PED | ∅ 6 PED | FS |
| L | 1A | 2A | -OFS | -OFS | 3A | 4A | -OFS | -OFS | -OFS | -OFS | -OFS | DC ISOLATOR | DC ISOLATOR | DC ISOLATOR |
| L | NOT USED | ∅ 2 | ∅ 2 | ∅ 2 | NOT USED | NOT USED | -OFS | -OFS | -OFS | -OFS | -OFS | ∅ 4 PED | ∅ 8 PED | ST |
| L | U | ∅ 5 | ∅ 6 | -OFS | -OFS | ∅ 7 | ∅ 8 | -OFS | -OFS | -OFS | -OFS | -OFS | -OFS | -OFS |
| L | U | 5A | 6A | -OFS | -OFS | 7A | 8A | -OFS | -OFS | -OFS | -OFS | -OFS | -OFS | -OFS |
| L | L | NOT USED | ∅ 6 | ∅ 6 | NOT USED | NOT USED | -OFS | -OFS | -OFS | -OFS | -OFS | -OFS | -OFS | -OFS |
| L | L | 6B | 6B | -OFS | -OFS | -OFS | -OFS | -OFS | -OFS | -OFS | -OFS | -OFS | -OFS | -OFS |

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

FS = FLASH SENSE
 ST = STOP TIME

⊗ Wired Input - Do not populate slot with detector card

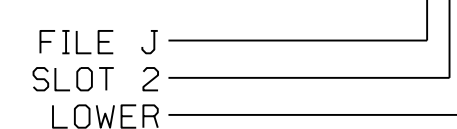
INPUT FILE CONNECTION & PROGRAMMING CHART

| 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 ¹ | TB2-1,2 | I1U | 56 | 18 | 1 | 1 | Y | Y | | | 15 |
| | - | J4U | 48 | 10 | 26 | 6 | Y | Y | Y | | 3 |
| 2A | TB2-5,6 | I2U | 39 | 1 | 2 | 2 | Y | Y | | | |
| 2B | TB2-7,8 | I2L | 43 | 5 | 12 | 2 | Y | Y | | | |
| 3A ² | TB4-5,6 | I5U | 58 | 20 | 3 | 3 | Y | Y | | | 15 |
| | - | J8U | 50 | 12 | 28 | 8 | Y | Y | | | 3 |
| 4A | TB4-9,10 | I6U | 41 | 3 | 4 | 4 | Y | Y | | | 10 |
| 5A ³ | TB3-1,2 | J1U | 55 | 17 | 5 | 5 | Y | Y | Y | | 15 |
| | - | I4U | 47 | 9 | 22 | 2 | Y | Y | Y | | 3 |
| 6A | TB3-5,6 | J2U | 40 | 2 | 6 | 6 | Y | Y | | | |
| 6B | TB3-7,8 | J2L | 44 | 6 | 16 | 6 | Y | Y | | | |
| 7A ⁴ | TB5-5,6 | J5U | 57 | 19 | 7 | 7 | Y | Y | | | 15 |
| | - | I8U | 49 | 11 | 24 | 4 | Y | Y | | | 3 |
| 8A | TB5-9,10 | J6U | 42 | 4 | 8 | 8 | Y | Y | | | 10 |
| PED PUSH BUTTONS | | | | | | | | | | | |
| P21,P22 | TB8-4,6 | I12U | 67 | 29 | | | 2 PED | | | | |
| P41,P42 | TB8-5,6 | I12L | 69 | 31 | | | 4 PED | | | | |
| P61,P62 | TB8-7,9 | I13U | 68 | 30 | | | 6 PED | | | | |
| P81,P82 | TB8-8,9 | I13L | 70 | 32 | | | 8 PED | | | | |

NOTE:
 INSTALL DC ISOLATORS IN INPUT FILE SLOTS I12 AND I13.

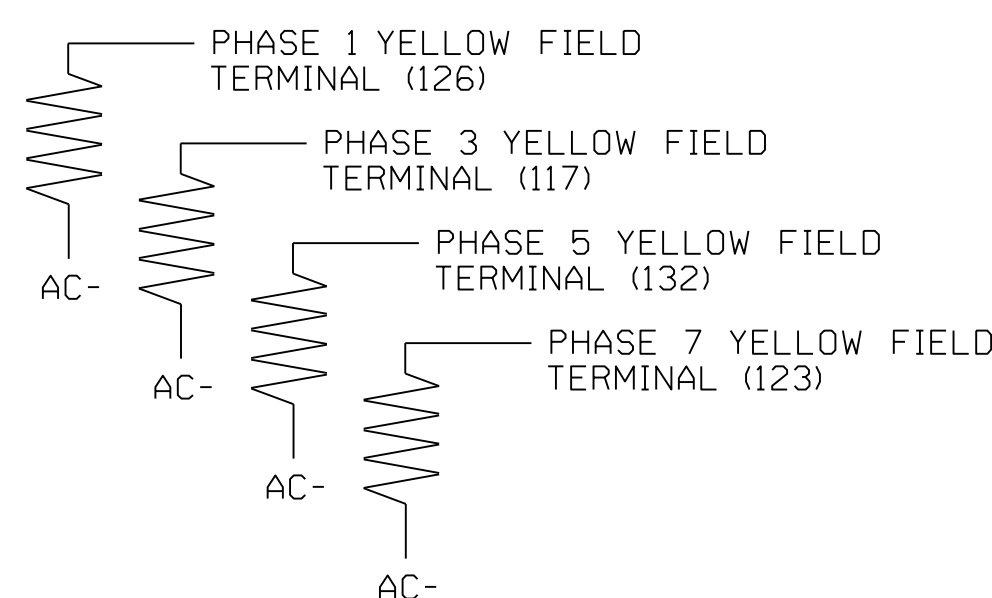
- Add jumper from I1-W to J4-W, on rear of input file.
- Add jumper from I5-W to J8-W, on rear of input file.
- Add jumper from J1-W to I4-W, on rear of input file.
- Add jumper from J5-W to I8-W, on rear of input file.

INPUT FILE POSITION LEGEND: J2L



LOAD RESISTOR INSTALLATION DETAIL

| VALUE (ohms) | WATTAGE |
|--------------|-----------|
| 1.5K - 1.9K | 25W (min) |
| 2.0K - 3.0K | 10W (min) |



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 04-0319
 DESIGNED: June 2017
 SEALED: 08/04/2017
 REVISED: N/A

COUNTDOWN PEDESTRIAN SIGNAL OPERATION

Countdown Ped Signals are required to display timing only during Ped Clearance Interval. Consult Ped Signal Module user's manual for instructions on selecting this feature.

Electrical Detail - Sheet 1 of 2 - Signal Upgrade

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US 301 (Ward Boulevard) at SR 1606 (Black Creek Road)
 Division 4 Wilson County Wilson
 PLAN DATE: June 2017 REVIEWED BY: W M Ruhssam
 PREPARED BY: K M Cory REVIEWED BY:
 REVISIONS INIT. DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
 SEAL

 Kelly M. Cory
 8/4/2017
 SIG. INVENTORY NO. 04-0319