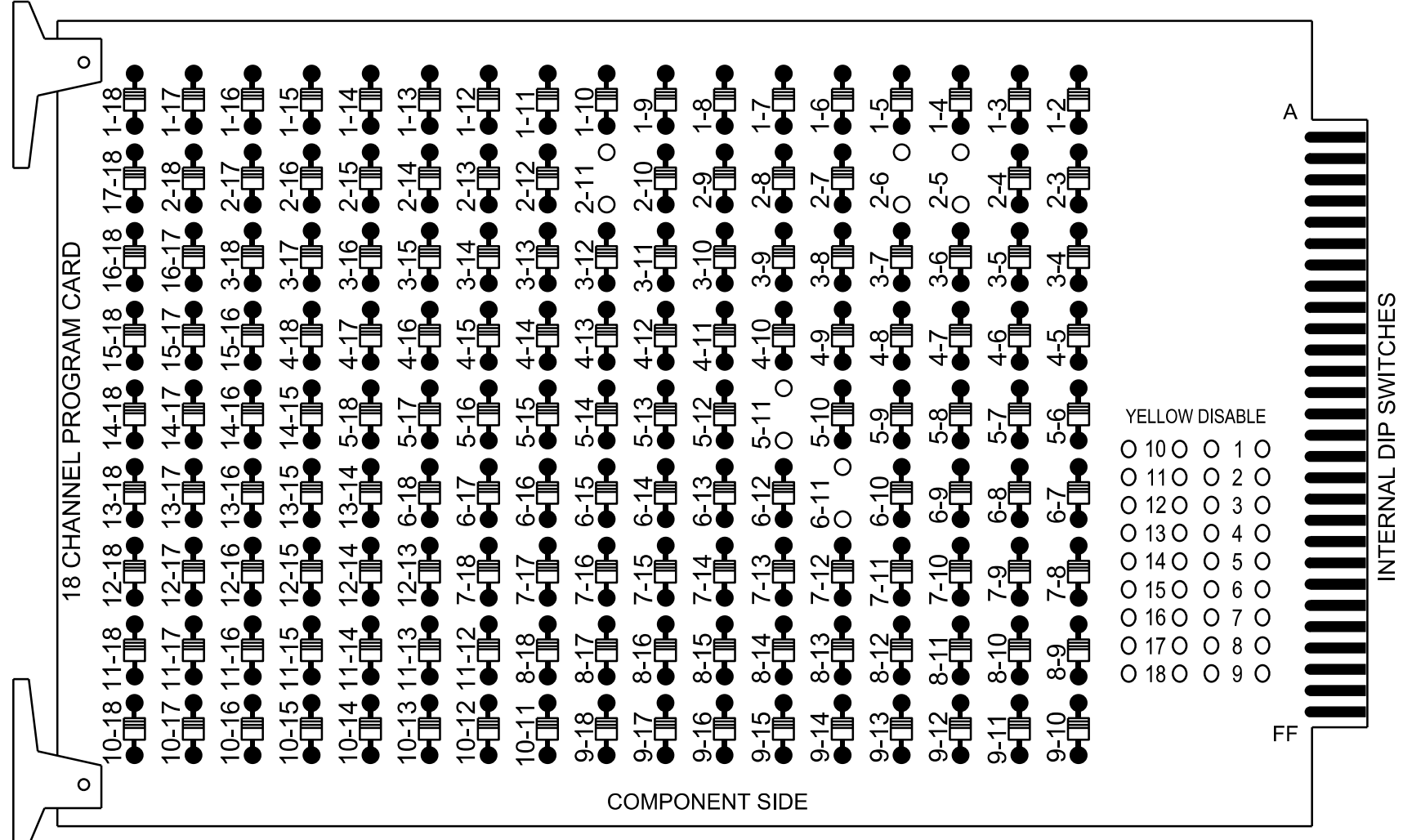


### 18 CHANNEL IP CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 2-5, 2-6, 2-11, 5-11 AND 6-11.



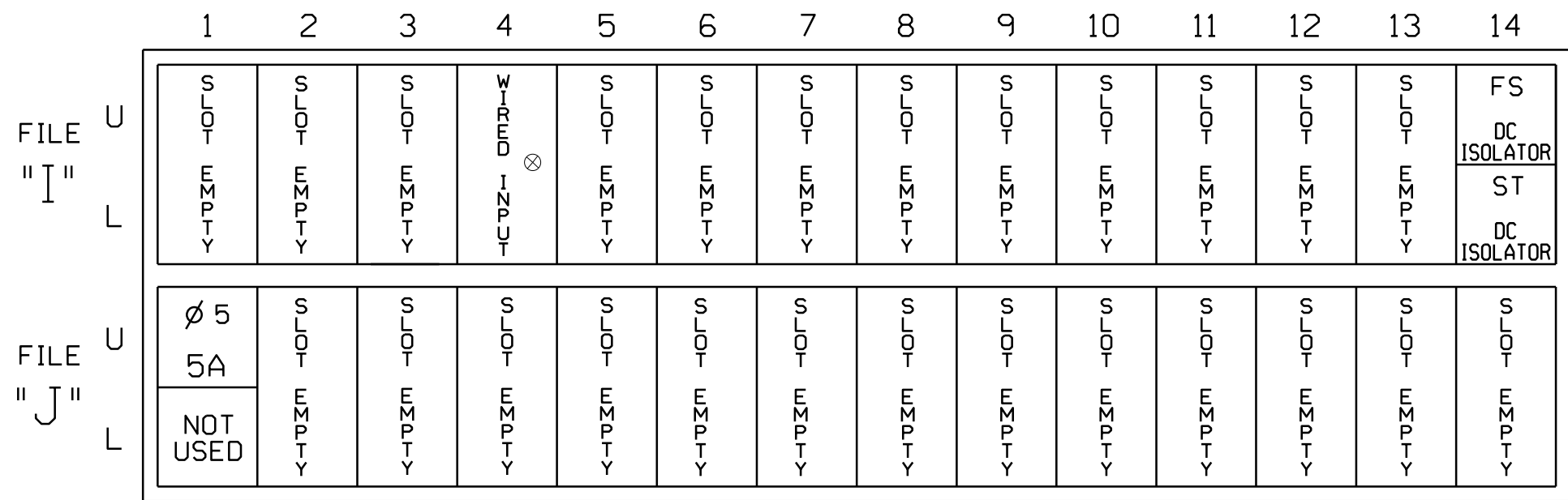
REMOVE JUMPERS AS SHOWN

#### 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 the Red Enable is active at all times during normal operation.
- Integrate monitor with Ethernet network in cabinet.

### INPUT FILE POSITION LAYOUT

(front view)



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

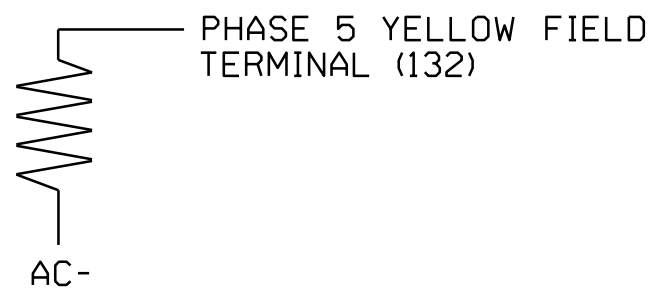
FS = FLASH SENSE  
ST = STOP TIME

⊗ Wired Input - Do not populate slot with detector card

### LOAD RESISTOR INSTALLATION DETAIL

(install resistor as shown)

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



### NOTES

- To prevent "flash-conflict" problems, insert red flash program blocks for all vehicle load switches in the output file. The installer shall verify that signal heads flash in accordance with the Signal Plans.
- Program controller to startup in phase 2 Green and 6 Green.
- The cabinet and controller are part of the High Point Signal System.

### EQUIPMENT INFORMATION

CONTROLLER.....2070LX  
CABINET.....332 W/ AUX  
SOFTWARE.....ECONOLITE ASC/3-2070  
CABINET MOUNT.....BASE  
OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE  
LOAD SWITCHES USED.....S2,S7,S8,S11,AUX S4  
PHASES USED.....2,5,6,8  
OVERLAP "A".....NOT USED  
OVERLAP "B".....NOT USED  
OVERLAP "C".....\*  
OVERLAP "D".....NOT USED

\* See overlap programming on this sheet.

### SPECIAL DETECTOR NOTE

For all loops, install a multizone microwave detection system for vehicle detection. Perform installation according to the manufacturer's directions and NCDOT engineer approved mounting locations to accomplish the detection schemes shown on the Signal Design Plans.

For Detection Zone 5A, the equipment and slot reserved for wired input is typical for an NCDOT installation.

### INPUT FILE CONNECTION & PROGRAMMING CHART

| LOOP NO.        | LOOP TERMINAL | INPUT FILE POS. | PIN NO. | DETECTOR NO. | NEMA PHASE | CALL | EXTEND TIME | DELAY TIME | ADDED INITIAL | DETECTOR TYPE |
|-----------------|---------------|-----------------|---------|--------------|------------|------|-------------|------------|---------------|---------------|
| 5A <sup>1</sup> | TB3-1,2       | J1U             | 55      | 5 ★          | 5          | YES  |             | 15         |               | N             |
|                 | -             | I4U             | 47      | 22 ★         | 2          | YES  |             | 3          |               | G             |

<sup>1</sup>Add jumper from J1-W to I4-W, on rear of input file.

★See vehicle detector setup programming detail for alternate phasing on sheet 2.

### 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 Until 'Overlap C'

OVERLAP C

Select TMG VEH OVLP [C] and 'PPLT FYA'

|                                         |
|-----------------------------------------|
| TMG VEH OVLP...[C] TYPE: ....[PPLT FYA] |
| PROTECTED LEFT TURN.... PHASE 5         |
| OPPOSING THROUGH..... PHASE 6           |
| FLASHING ARROW OUTPUT....CH11 ISOLATE   |
| DELAY START OF: FYA..0.0 CLEARANCE..0.0 |
| ACTION PLAN SF BIT DISABLE..... 5       |
| END PROGRAMMING                         |

NOTICE ACTION  
PLAN SF BIT 5



### 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 | NU    | 51★ | 61  | 62    | NU  | NU  | 81,82,83 | NU     | NU     | NU     | 51★    | NU     | NU     |
| RED                   |    | 128 | 128   |    |    |       |     | 134 | 134   |     |     | 107      |        |        |        |        |        |        |
| YELLOW                |    | 129 | 129   |    |    |       | *   | 135 | 135   |     |     | 108      |        |        |        |        |        |        |
| GREEN                 |    | 130 |       |    |    |       |     |     | 136   |     |     | 109      |        |        |        |        |        |        |
| RED ARROW             |    |     |       |    |    |       |     |     |       |     |     |          |        |        |        | A114   |        |        |
| YELLOW ARROW          |    |     |       |    |    |       |     |     |       |     |     |          |        |        |        | A115   |        |        |
| FLASHING YELLOW ARROW |    |     |       |    |    |       |     |     |       |     |     |          |        |        |        | A116   |        |        |
| GREEN ARROW           |    |     | 130   |    |    |       | 133 | 136 |       |     |     |          |        |        |        |        |        |        |

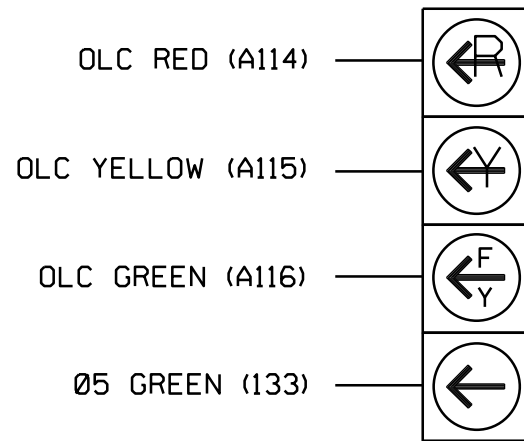
NU = Not Used

★ See pictorial of head wiring in detail this sheet.

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

### FYA SIGNAL WIRING DETAIL

(wire signal head as shown)



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THIS ELECTRICAL DETAIL IS FOR  
THE SIGNAL DESIGN: 07-2091T3  
DESIGNED: March 2025  
SEALED: 3/17/2025  
REVISED: N/A

Electrical Detail - Sheet 1 of 3  
Temporary Design 3 - (TMP Phase III)

| ELECTRICAL AND PROGRAMMING DETAILS FOR:             |  | DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED                      |  |
|-----------------------------------------------------|--|------------------------------------------------------------------------------------|--|
| NC 62 (Liberty Road)<br>at<br>I-85 Northbound Ramps |  | SEAL<br>NORTH CAROLINA PROFESSIONAL ENGINEER<br>SEAL 054155<br>ZACHARY M. ESPOSITO |  |
| Division 7 Guilford County Archdale                 |  | Signed by: ZACHARY M. ESPOSITO 3/17/2025                                           |  |
| PLAN DATE: March 2025 REVIEWED BY: ZM Esposito      |  | DATE                                                                               |  |
| PREPARED BY: AW Poole RKA PROJ. NO.: 17380 (040)    |  | DATE                                                                               |  |
| REVISIONS                                           |  | DATE                                                                               |  |
| 750 N. Greenfield Pkwy, Garner, NC 27529            |  | DATE                                                                               |  |
| SIG. INVENTORY NO. 07-2091T3                        |  | DATE                                                                               |  |