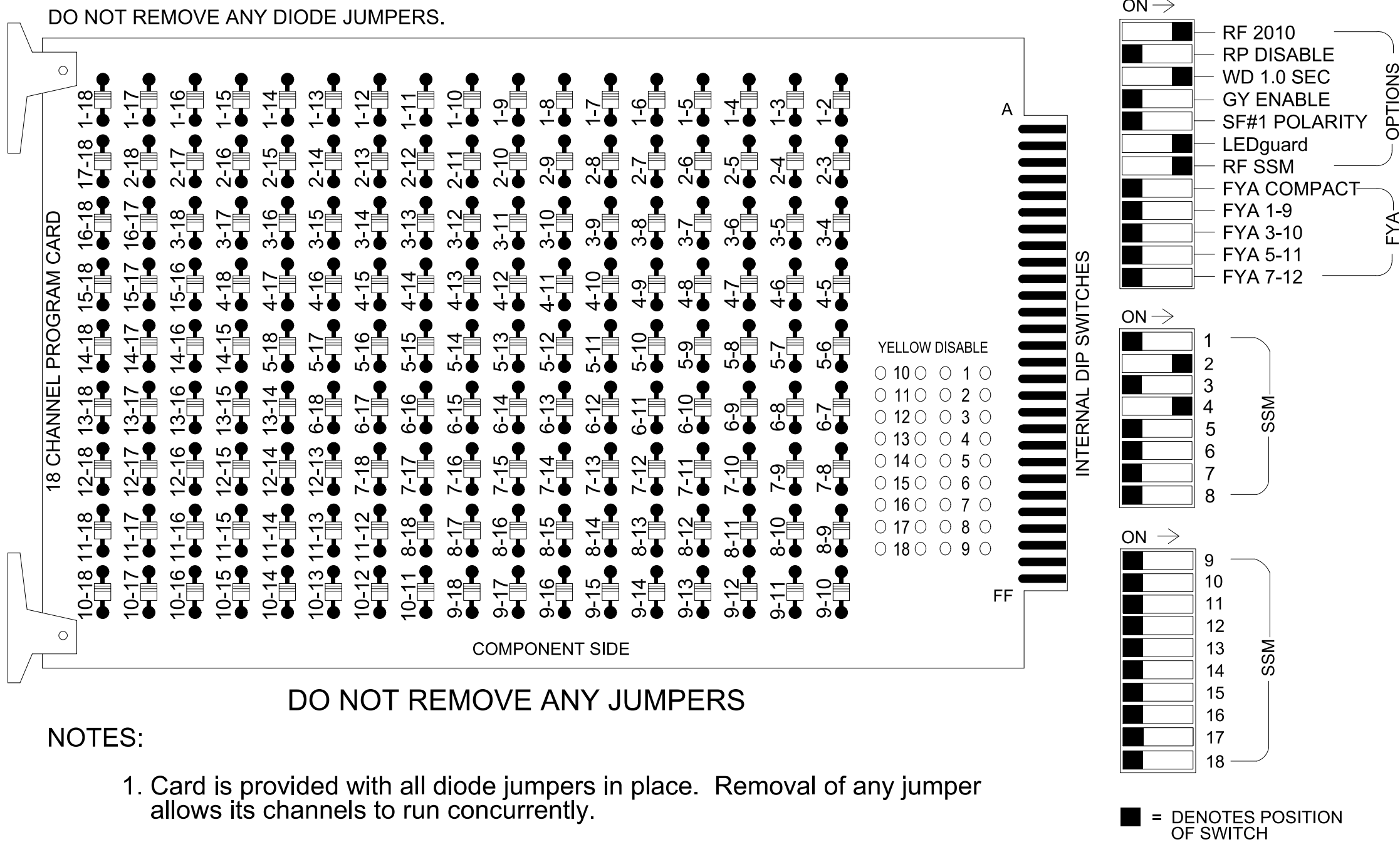


18 CHANNEL CONFLICT MONITOR  
PROGRAMMING DETAIL

(do not remove any jumpers and set switches as shown)



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 plan.
- Program controller to start up in phase 2 Green No Walk.
- If this signal will be managed by an ATMS software, enable controller and detector logging for all detectors used at this location.

EQUIPMENT INFORMATION

Controller.....2070LX  
Cabinet.....332 w/ Aux  
Software.....Q-Free MAXTIME  
Cabinet Mount.....Base  
Output File Positions.....18 With Aux. Output File  
Load Switches Used.....S2, S5  
Phases Used.....2, 4  
Overlap "1".....NOT USED  
Overlap "2".....NOT USED  
Overlap "3".....NOT USED  
Overlap "4".....NOT USED

| PROJECT REFERENCE NO. | SHEET NO. |
|-----------------------|-----------|
| U-4700 CA             | Sig. 6.1  |

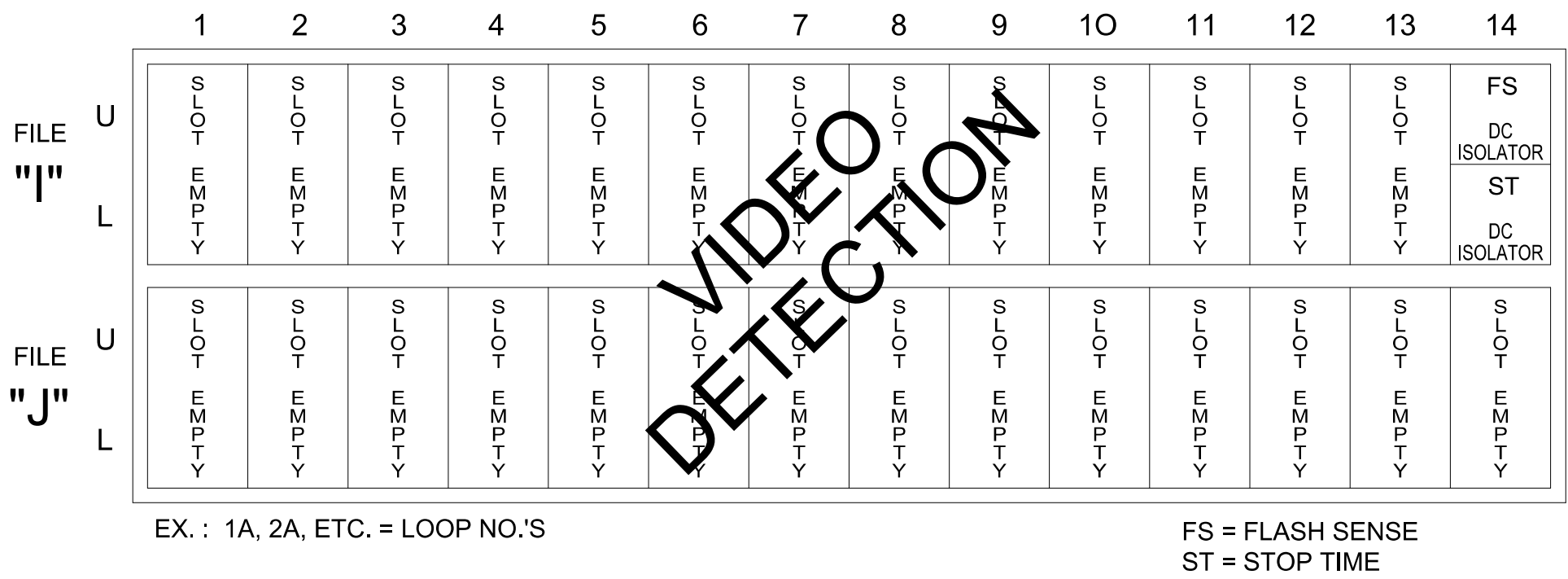
SIGNAL HEAD HOOK-UP CHART

| 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 | OL1    | OL2    | SPARE  | OL3    | OL4    | SPARE  |
| SIGNAL HEAD NO.       | NU | 21,22 | NU    | NU | 41, 42,43 | NU    | NU | NU | NU    | NU  | NU  | NU    | NU     | NU     | NU     | NU     | NU     | NU     |
| RED                   |    | 128   |       |    | 101       |       |    |    |       |     |     |       |        |        |        |        |        |        |
| YELLOW                |    | 129   |       |    |           |       |    |    |       |     |     |       |        |        |        |        |        |        |
| GREEN                 |    | 130   |       |    |           |       |    |    |       |     |     |       |        |        |        |        |        |        |
| RED ARROW             |    |       |       |    |           |       |    |    |       |     |     |       |        |        |        |        |        |        |
| YELLOW ARROW          |    |       |       |    | 102       |       |    |    |       |     |     |       |        |        |        |        |        |        |
| FLASHING YELLOW ARROW |    |       |       |    |           |       |    |    |       |     |     |       |        |        |        |        |        |        |
| GREEN ARROW           |    |       |       |    | 103       |       |    |    |       |     |     |       |        |        |        |        |        |        |
| Hand icon             |    |       |       |    |           |       |    |    |       |     |     |       |        |        |        |        |        |        |
| Walking person icon   |    |       |       |    |           |       |    |    |       |     |     |       |        |        |        |        |        |        |

NU = Not Used

INPUT FILE POSITION LAYOUT

(front view)



SPECIAL DETECTOR NOTE

Install a video detection system for vehicle detection.  
Perform installation according to manufacturer's directions and NCDOT engineer-approved mounting locations to accomplish the detection schemes shown on the Signal Design Plans.

MAXTIME STARTUP AND SOFTWARE FLASH  
PROGRAMMING DETAIL

Front Panel  
Main Menu >Controller >Unit

Web Interface  
Home >Controller >Unit

Modify parameters as shown below and save changes.

| Start Up Parameters    | Unit Flash Parameters   |
|------------------------|-------------------------|
| StartUp Clearance Hold | All Red Flash Exit Time |
| 6                      | 6                       |

OUTPUT CHANNEL CONFIGURATION

Front Panel  
Main Menu >Controller >More>Channels>Channels Config

Web Interface  
Home >Controller >Advanced IO>Channels>Channels Configuration

Channel Configuration

| Channel | Control Type  | Control Source | Flash Yellow | Flash Red | Flash Alt | MMU Channel |
|---------|---------------|----------------|--------------|-----------|-----------|-------------|
| 1       | Phase Vehicle | 1              |              | X         | X         | 1           |
| 2       | Phase Vehicle | 2              |              | X         |           | 2           |
| 3       | Phase Vehicle | 3              |              | X         | X         | 3           |
| 4       | Phase Vehicle | 4              |              | X         |           | 4           |
| 5       | Phase Vehicle | 5              |              | X         |           | 5           |
| 6       | Phase Vehicle | 6              |              | X         | X         | 6           |
| 7       | Phase Vehicle | 7              |              | X         |           | 7           |
| 8       | Phase Vehicle | 8              |              | X         | X         | 8           |
| 9       | Overlap       | 1              |              | X         | X         | 9           |
| 10      | Overlap       | 2              |              | X         | X         | 10          |
| 11      | Overlap       | 3              |              | X         |           | 11          |
| 12      | Overlap       | 4              |              | X         |           | 12          |
| 13      | Phase Ped     | 2              |              |           |           | 13          |
| 14      | Phase Ped     | 4              |              |           |           | 14          |
| 15      | Phase Ped     | 6              |              |           |           | 15          |
| 16      | Phase Ped     | 8              |              |           |           | 16          |
| 17      | Overlap       | 5              |              | X         | X         | 17          |
| 18      | Overlap       | 6              |              | X         |           | 18          |

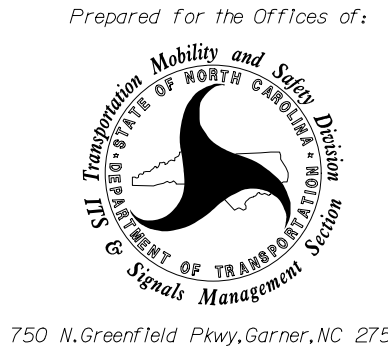
↑ ↑  
NOTE: ALL RED FLASH

THIS ELECTRICAL DETAIL IS FOR  
THE SIGNAL DESIGN: 11-1455T  
DESIGNED: June 2024  
SEALED: 6/10/2024  
REVISED: N/A



ELECTRICAL DETAIL

ELECTRICAL AND PROGRAMMING  
DETAILS FOR:

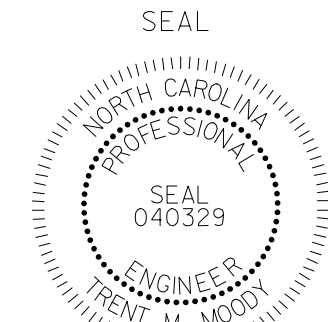


US 321 (Hickory Boulevard) SB  
at  
SR 1160 (Mt Herman Road)

Division 11 Caldwell County Hudson  
PLAN DATE: June 2024 REVIEWED BY: D.J. Darity  
PREPARED BY: R.L. Aristondo REVIEWED BY: T.M. Woody

| REVISIONS | INIT. | DATE |
|-----------|-------|------|
|           |       |      |
|           |       |      |
|           |       |      |

DOCUMENT NOT CONSIDERED  
FINAL UNLESS ALL  
SIGNATURES COMPLETED



DocuSigned by:  
Trent Moody  
6/10/2024  
SIC. INVENTORY NO. 11-1455T