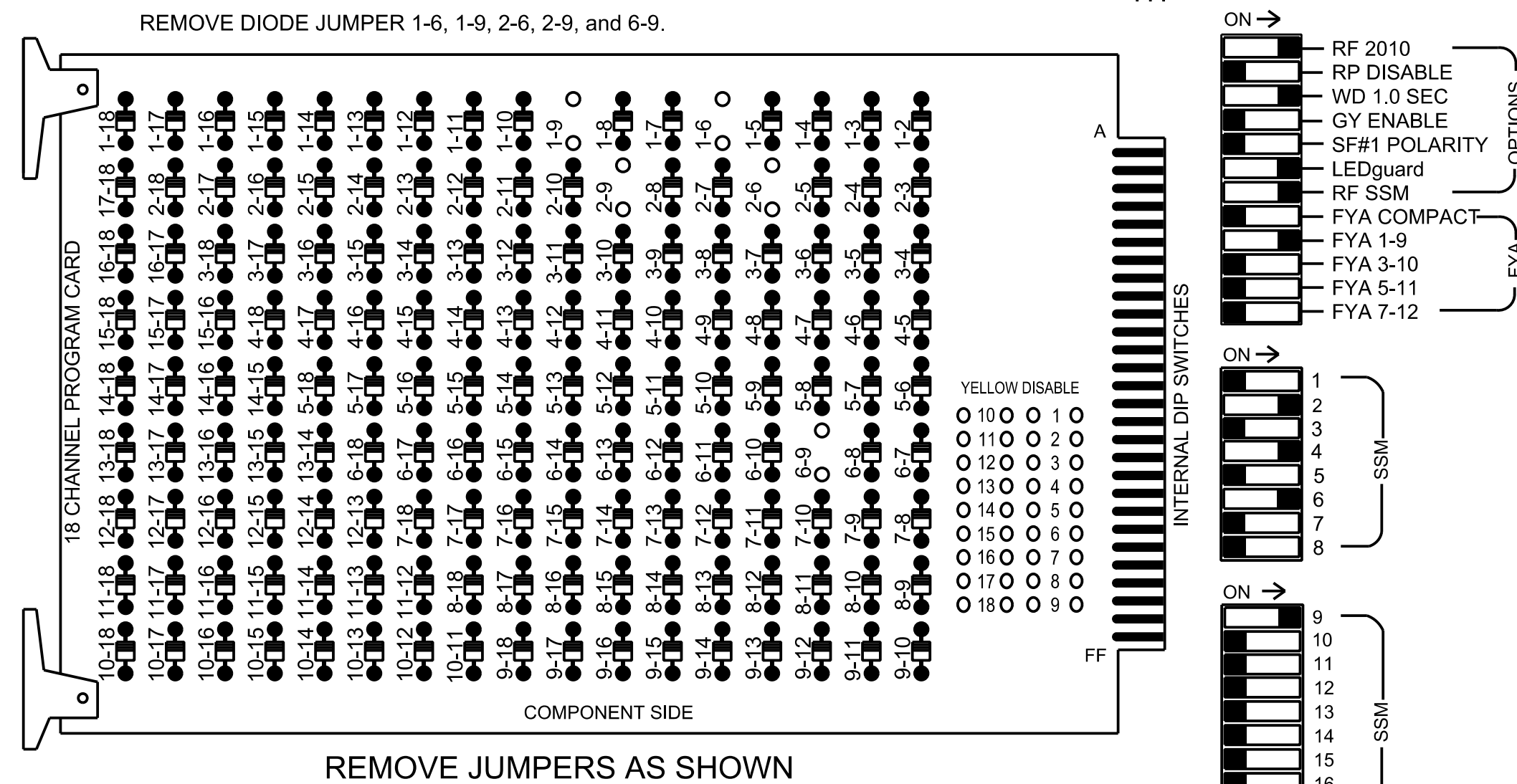


18 CHANNEL IP CONFLICT MONITOR

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. Ensure jumpers SEL2-SEL5 and SEL9 are present on the monitor board.
3. Ensure that the Red Enable is active at all times during normal operation.
4. Integrate monitor with Ethernet network in cabinet.

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. Return controller to Factory Defaults before programming per this electrical detail.
3. Program controller to start up in phase 2 Green No Walk and 6 Green No Walk.
4. If this signal will be managed by an ATMS software, enable controller and detector logging for all enabled 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.....S1,S2,S5,S8,AUX S1
Phases Used.....1,2,4,6
Overlap "1".....\*
Overlap "2".....NOT USED
Overlap "3".....NOT USED
Overlap "4".....NOT USED

\*See overlap programming detail on sheet 2

SIGNAL HEAD HOOK-UP CHART

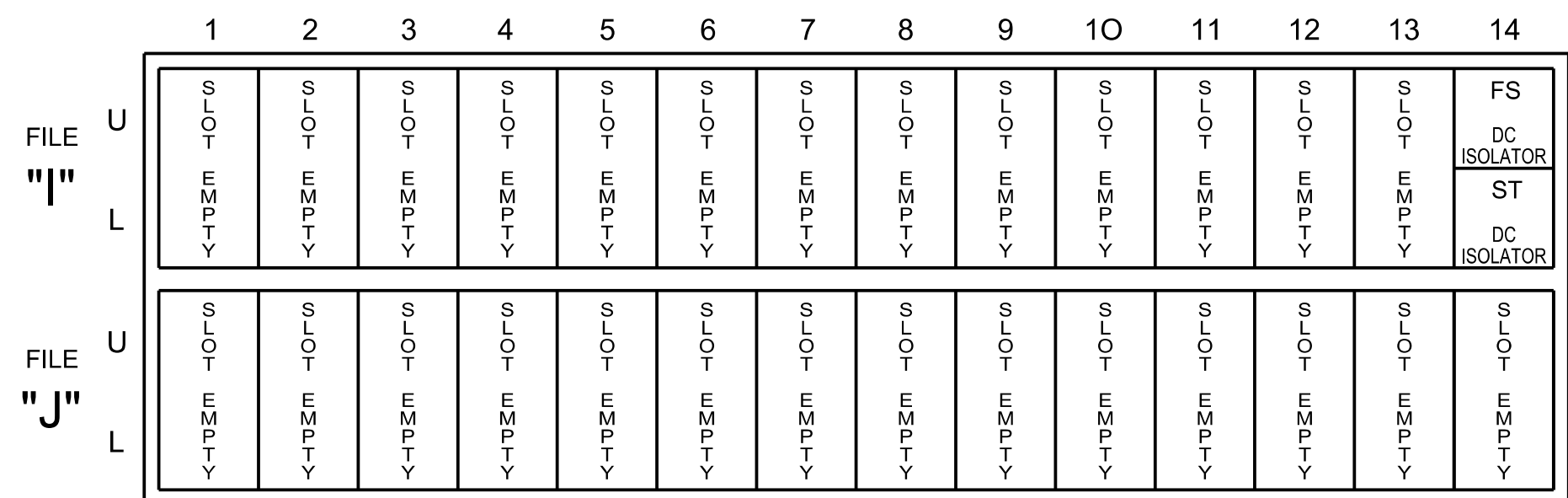
Table with columns: LOAD SWITCH NO., S1-S12, AUX S1-S6, PHASE, SIGNAL HEAD NO., RED, YELLOW, GREEN, RED ARROW, YELLOW ARROW, FLASHING YELLOW ARROW, GREEN ARROW. Rows show phase assignments and load switch connections for various signal heads.

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)



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

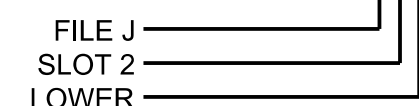
FS = FLASH SENSE
ST = STOP TIME

INPUT FILE CONNECTION & PROGRAMMING CHART

Table with columns: LOOP NO., LOOP TERMINAL, INPUT FILE POS., PIN NO., INPUT POINT, DETECTOR NO., CALL PHASE, DELAY TIME, EXTEND TIME, EXTEND, ADDED INITIAL, CALL, DELAY DURING GREEN. Row 1A shows connections for TB2-1,2, I1U, PIN 56, etc.

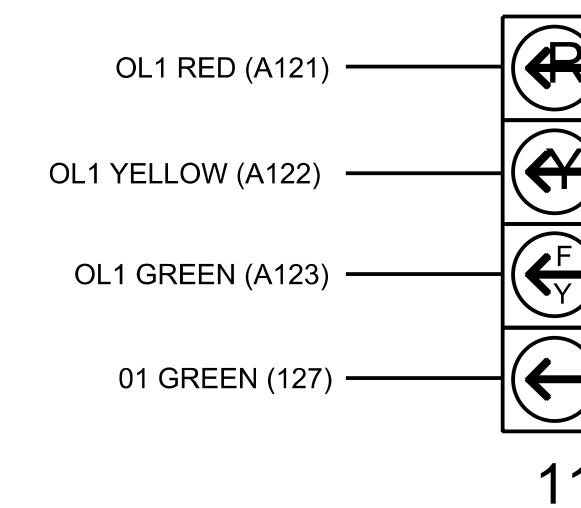
\* For the detectors to work as shown on the signal design plan, see the Detector Programming Detail for Alternate Phasing on Sheet 2.

INPUT FILE POSITION LEGEND: J2L



FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



SPECIAL DETECTOR NOTE

Install a multizone microwave 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.

LOAD RESISTOR INSTALLATION DETAIL

(install resistor as shown)

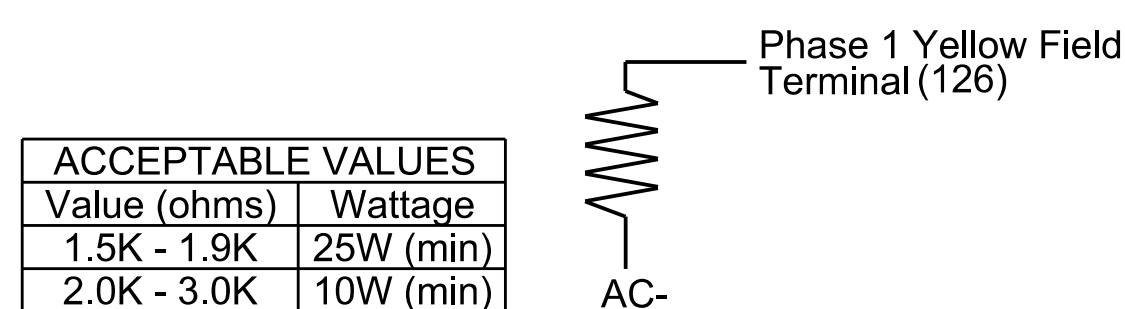


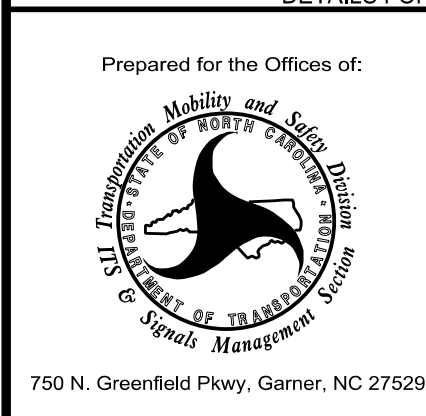
Table with columns: ACCEPTABLE VALUES, Value (ohms), Wattage. Rows show ranges for 1.5K-1.9K (25W min), 2.0K-3.0K (10W min).

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 08-0500T3
DESIGNED: AUGUST 2021
SEALED: 05/21/2024
REVISED:

Signal Upgrade
Temporary Design 3
Electrical Detail - Sheet 1 of 3

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ELECTRICAL AND PROGRAMMING DETAILS FOR:

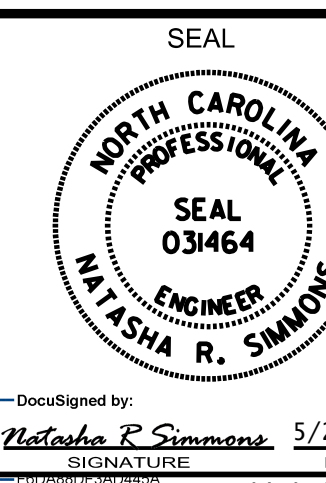


750 N. Greenfield Pkwy, Garner, NC 27529

US 64 Bus. (Dixie Dr)/NC 49 at I-73-US 220 SB/I-74 EB Ramps

Division 8 Randolph County Asheboro
PLAN DATE: August 2021 REVIEWED BY: A.D. Klinksiek
PREPARED BY: N.K. Vianich REVIEWED BY: N.R. Simmons

Table with columns: REVISIONS, INT., DATE. Includes a signature line for N. R. Simmons dated 5/21/2024.



DocuSigned by: N. R. Simmons 5/21/2024
SIGNATURE DATE
SIG. INVENTORY NO. 08-0500T3