INPUT FILE POSITION LAYOUT

9

10 11 12 13 14

FS = FLASH SENSE

ST = STOP TIME

NEMA CALL EXTEND FULL STRETCH DELAY

DELAY

DC ISOLATOR

(front view)

s | ø8 |

Note: Install a model 242 DC isolator in slot I6 for use with microwave detector.

IMPORTANT: For proper operation of the microwave detector, remove

surge protection from TB21-11 and TB21-12, and from TB23-11 and TB23-12.

INPUT FILE CONNECTION & PROGRAMMING CHART

DETECTOR NEMA NO. PHASE

2/SYS |

6/SYS

Υ

ΥI

8 | Y | Y

NOT

|ø6/SYS|

DC ISOLATOR

NOT

USED

See the Microwave Detector Wiring Details on sheet 3.

4. Connect serial cable from conflict monitor to comm. port 1 of 2070

controller. Ensure conflict monitor communicates with 2070.

5. Special cabinet wiring is required to utilize FYA COMPACT mode. See Ped Yellow Conflict Monitor Wiring Detail on this sheet.

ø 1 |ø2/SYS| <sup>S</sup> |

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

TB21-3,4 TB21-11,12

sheets 2 and 3.

1A 2A/SØ1

USED USED

## 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. Enable Simultaneous Gap-Out for all Phases.
- 3. Program phases 2 and 6 for Variable Initial and Gap Reduction.
- 4. Program phases 2 and 6 for Startup In Green.
- 5. Program phases 2 and 6 for Yellow Flash, and overlap 1 as Wag Overlaps.
- 6. The cabinet and controller are part of the NC 59 Closed Loop System.

## **EQUIPMENT INFORMATION**

## BACKUP PROTECTION NOTE

(program controller as shown below)

From Main Menu press '2' (Phase Control), then '1' (Phase Control Functions). Program phase 6 for 'Backup Protect'. Make sure the Red Revert times shown on the Signal Design Plans are programmed in the 'Phase Timing' menu.

# PED YELLOW CONFLICT MONITOR WIRING DETAIL

(make cabinet wiring changes as shown below)

In order to use FYA COMPACT mode with the 2018ECL-NC Monitor, the cabinet must be wired such that the (unused) Ped Yellow load switch outputs are wired to the conflict monitor as follows: From 2 PY (field term. 114) to chan. 9 green (monitor pin 13).

Follow the instructions below to make the appropriate connections:

STEP 1: Fold down rear panel of output file.

STEP 2: Find unused wiring harness from conflict monitor card edge connector (which should be tied and bundled together).

STEP 3: Find the conductors that correspond to the following conflict monitor card edge pins and solder wire to the appropriate terminal on the rear of the output file as shown below:

CMU-13 — 2PY (term. 114)

NOTE: Some cabinet manufacturers use keyed connectors to accomplish this wiring configuration. If connectors are used, fold down the rear panel of the output file and find the set of 3 keyed connectors and connect them as shown below:

1-2PY 1-CMU-13 2-4PY 2-CMU-16 3-6PY 3-CMU-R 4-8PY 4-CMU-U	
--	--

# (wire signal head as shown)

FYA SIGNAL WIRING DETAIL

installation detail this sheet.

\* Denotes install load resistor. See load resistor

★ See pictorial of head wiring in detail this sheet.

SIGNAL HEAD HOOK-UP CHART

21.22 11 NU NU NU NU NU 61.62 NU

13

OLA 2 1 GRN 2 3

128

129

130

| S6 | S7 | S8

135

136

LOAD SWITCH NO.

YELLOW

GREEN

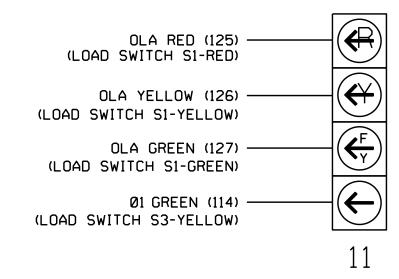
RED ARROW

YELLOW ARROW

FLASHING YELLOW ARROW

GREEN ARROW

NU = Not Used

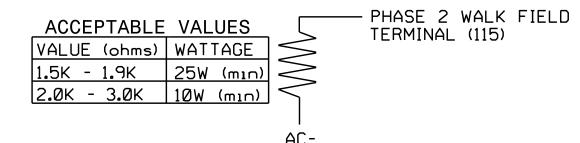


<u>NOTE</u>

The sequence display for signal head 11 requires special logic and output remapping. See sheets 2 and 3 for programming instructions.

### LOAD RESISTOR INSTALLATION DETAIL

(install resistor as shown below)



NC 59 (South Main Street) I-95 Bus./US 301 SB Ramp/ SR 2285 (Shipman Road)

Cumberland County PLAN DATE: November 2017 Reviewed by: PREPARED BY: James Peterson Reviewed BY: REVISIONS INIT. DATE

SIG. INVENTORY NO. 06-0946T1

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 06-0946T1 DESIGNED: September 2017 SEALED: 11-28-17 REVISED: N/A

INPUT FILE POSITION LEGEND: 12L SLOT 2-LOWER-

LOOP NO. TERMINAL FILE POS. NO. ASSIGNMENT

IIU | 56 |

I2U | 39 |

I6U | 40 |

TB22-1,2 | I8U | 42 | 4

| 59 |

'Add jumper from I1-F to I1-SP, on rear of input file.

\* Microwave pulse detector. See wiring and programming details on

21

2

Electrical Detail - Sheet 1 of 3 - Temp. 1 (Phase I) ELECTRICAL AND PROGRAMMING

DETAILS FOR Prepared in the Offices of:

750 N.Greenfield Pkwy, Garner, NC 27529

DOCUMENT NOT CONSIDERED

FINAL UNLESS ALL

SIGNATURES COMPLETED

PROJECT REFERENCE NO.

B-4491

107

108

109

| S9 | S10 | S11 | S12

Sig. 2