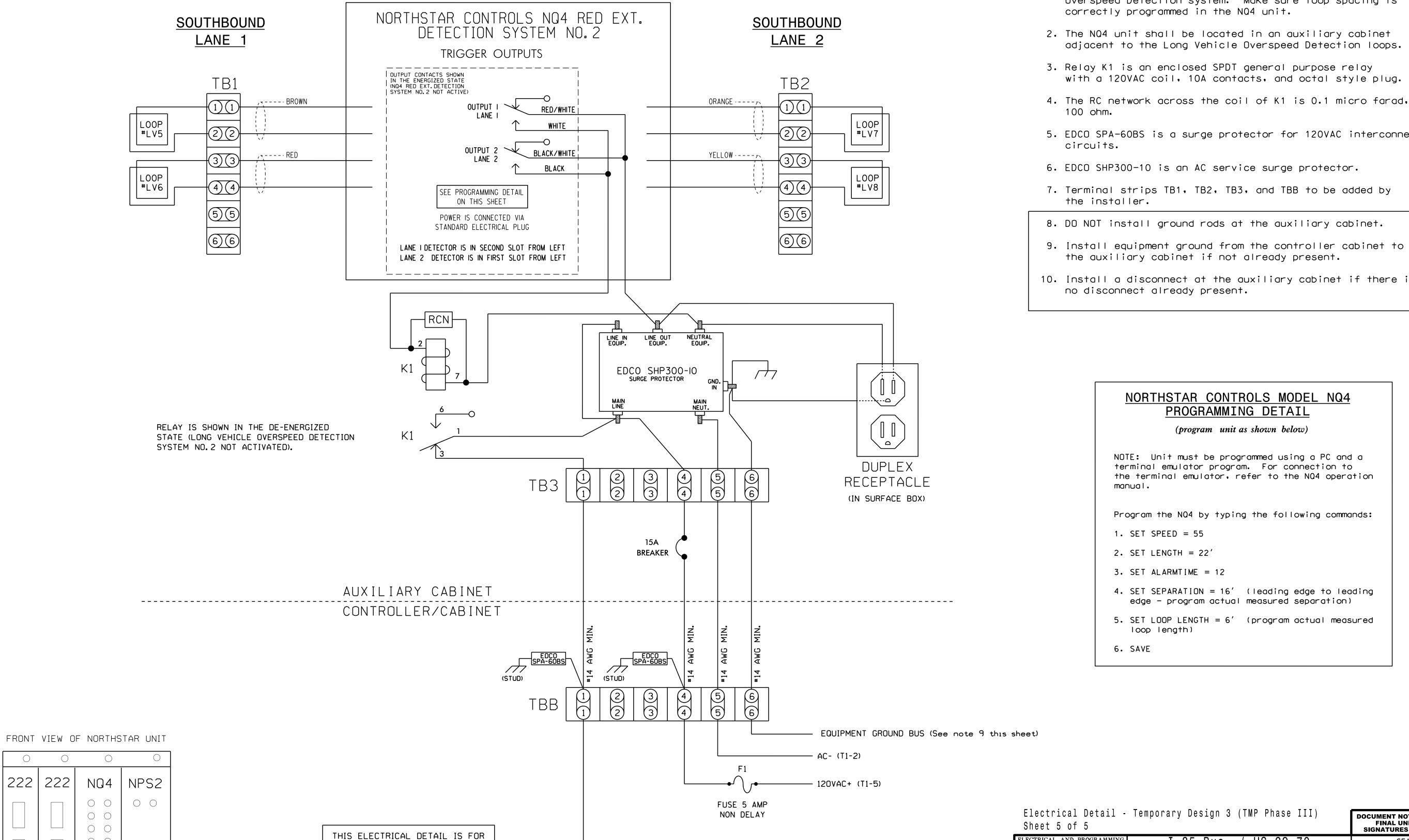
(wire unit as shown below)



THE SIGNAL DESIGN: 07-1191T3

DESIGNED: January 2018

SEALED: 2/7/2018

REVISED: N/A

- NOTES
- 1. Loop spacing is critical to the proper operation of this Overspeed Detection system. Make sure loop spacing is correctly programmed in the NQ4 unit.
- 2. The NQ4 unit shall be located in an auxiliary cabinet adjacent to the Long Vehicle Overspeed Detection loops.
- 3. Relay K1 is an enclosed SPDT general purpose relay with a 120VAC coil, 10A contacts, and octal style plug.
- 100 ohm. 5. EDCO SPA-60BS is a surge protector for 120VAC interconnect
- 6. EDCO SHP300-10 is an AC service surge protector.

circuits.

- 7. Terminal strips TB1, TB2, TB3, and TBB to be added by the installer.
- 8. DO NOT install ground rods at the auxiliary cabinet.
- 9. Install equipment ground from the controller cabinet to the auxiliary cabinet if not already present.
- 10. Install a disconnect at the auxiliary cabinet if there is no disconnect already present.

## NORTHSTAR CONTROLS MODEL NQ4 PROGRAMMING DETAIL

(program unit as shown below)

NOTE: Unit must be programmed using a PC and a terminal emulator program. For connection to the terminal emulator, refer to the NQ4 operation manual.

Program the NQ4 by typing the following commands:

- 1. SET SPEED = 55
- 2. SET LENGTH = 22'
- 3. SET ALARMTIME = 12
- 4. SET SEPARATION = 16' (leading edge to leading edge - program actual measured separation)
- 5. SET LOOP LENGTH = 6' (program actual measured loop length)
- 6. SAVE

Electrical Detail - Temporary Design 3 (TMP Phase III) Sheet 5 of 5

ELECTRICAL AND PROGRAMMING DETAILS FOR

AC ISOLATOR INPUT (TB9-11)

I-85 Bus. / US 29-70 SR 1144 (River Road)

Guilford County ivision 7 PLAN DATE: February 2018 REVIEWED BY: PREPARED BY: S. Armstrong Reviewed BY: REVISIONS

INIT. DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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LANE 2 LANE

750 N.Greenfield Pkwy.Garner.NC 27529

SIG. INVENTORY NO. 07-1191T3