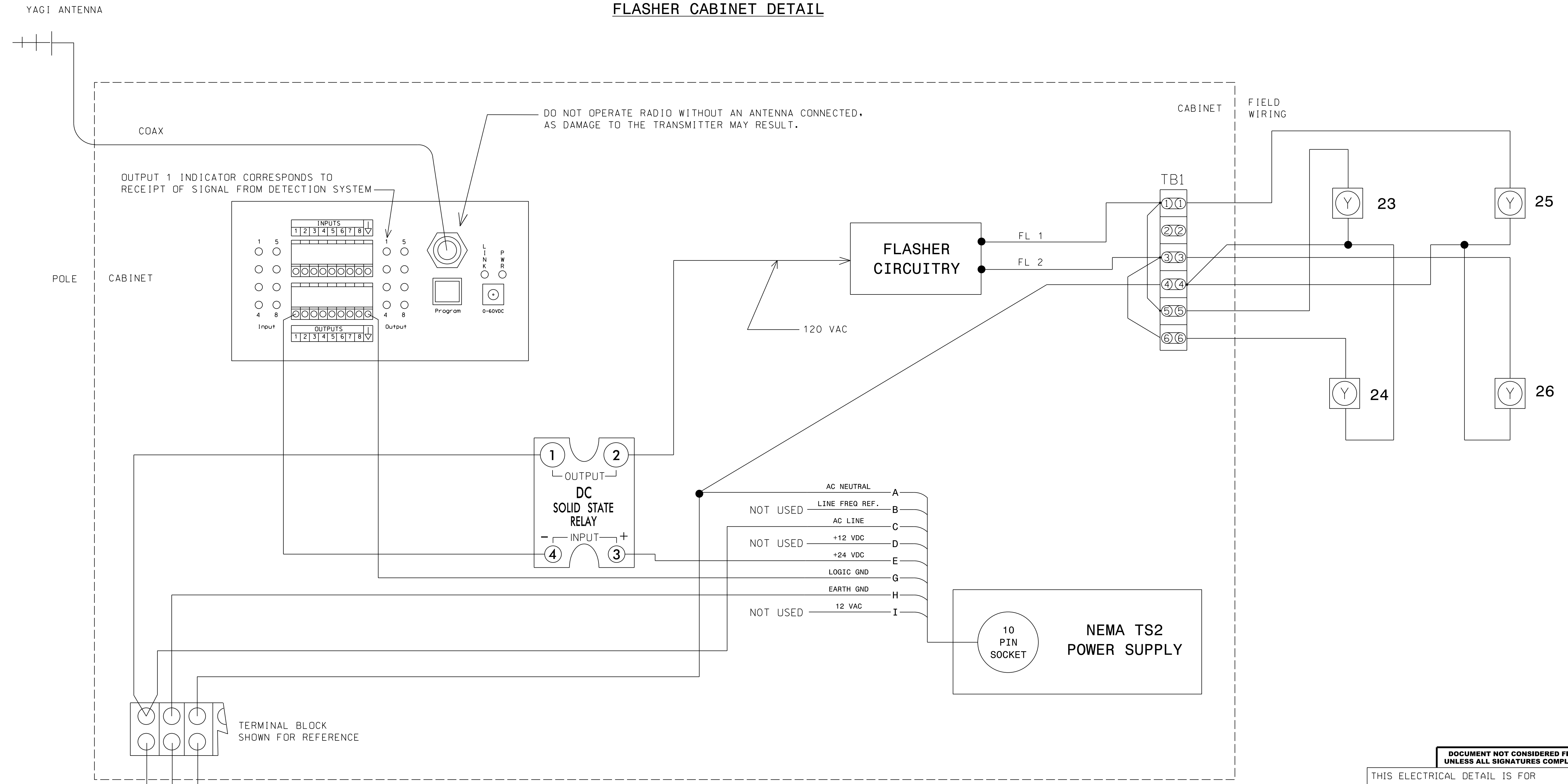


FLASHER CABINET DETAIL



OUTPUT 1 INDICATOR CORRESPONDS TO RECEIPT OF SIGNAL FROM DETECTION SYSTEM

DO NOT OPERATE RADIO WITHOUT AN ANTENNA CONNECTED, AS DAMAGE TO THE TRANSMITTER MAY RESULT.

- AC NEUTRAL A
- NOT USED LINE FREQ REF. B
- AC LINE C
- NOT USED +12 VDC D
- +24 VDC E
- LOGIC GND G
- EARTH GND H
- NOT USED 12 VAC I

NOTES

1. Install a wireless contact closure radio modem in a Type F3 Beacon Controller Cabinet.
2. Install DC solid state relay (25 Amp AC output) in Type F3 cabinet that will take a DC contact closure from the radio and switch the utility 120 VAC to the flasher circuitry. This new relay will require rewiring the normal input power to the flasher circuit, as shown above. Recommended way to re-wire input power: 1) remove the 120 VAC wire going to the flasher from the input power terminal block and reattach it to pin 2 of the solid state relay. 2) Connect a new wire between the AC+ terminal on the input power block and pin 1 on the solid state relay.
3. Integrate the flasher circuitry and the wireless contact closure radio modem such that when a radio signal is received, the flasher circuitry will flash the signs as shown on Sheet ITS-1.
4. Install a 15A non-GFCI duplex receptacle in the F3 cabinet.
5. Plug 120 VAC wall cube supplied with radio into radio and then into the duplex receptacle.
6. Install a TS-2 Power Supply as shown above.
7. Program the wireless contact closure radio modem in this location as a slave.
8. Install flasher circuitry such that heads 23 and 25 flash together and heads 24 and 26 flash together, in a wig/wag manner.
9. Perform installation according to manufacturer's directions and NCDOT engineer approved mounting locations to accomplish the flashing schemes shown on Sheet ITS-1.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

THIS ELECTRICAL DETAIL IS FOR
 TEMPORARY QUEUE BACKUP WARNING SYSTEM
 DESIGNED: April 2020
 SEALED: 5/15/20
 REVISED: N/A

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ELECTRICAL DETAIL SHEET 2 OF 2

ELECTRICAL AND PROGRAMMING DETAILS FOR: **Advanced Queue Detection System ON US 701/NC 130 (S.J.K. Powell Blvd)**

Division 6 Columbus County Whiteville

PLAN DATE: April 2020 REVIEWED BY:

PREPARED BY: J T Rowe REVIEWED BY:

REVISIONS: _____ INIT. DATE

DocuSigned by: **John T. Rowe, Jr.**
 SIGNATURE DATE

SIG. INVENTORY NO. N/A

5/15/2020
 ...:Wagnette Sensors and Flashers.electr:local_20200xyz.dgn
 USER:MCapple