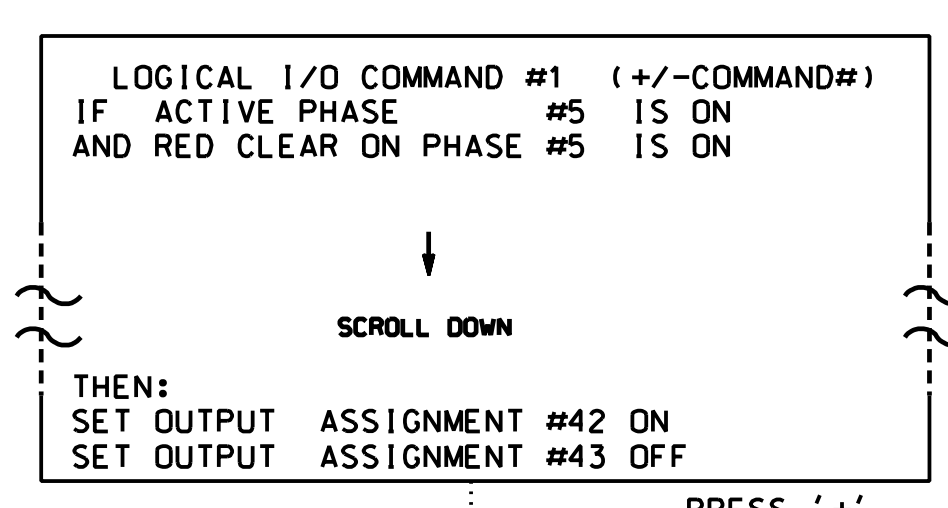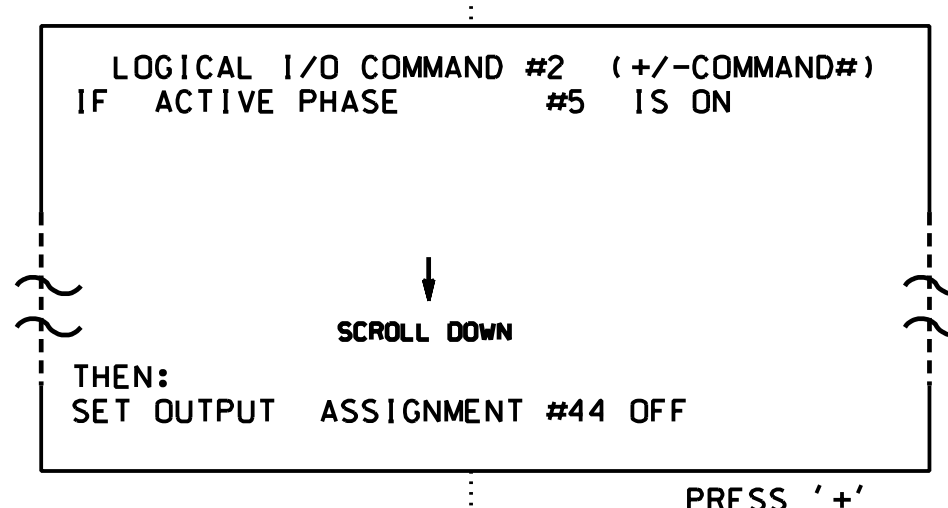## LOGICAL I/O PROCESSOR PROGRAMMING DETAIL

TO PRODUCE SPECIAL FYA-PPLT SIGNAL SEQUENCE
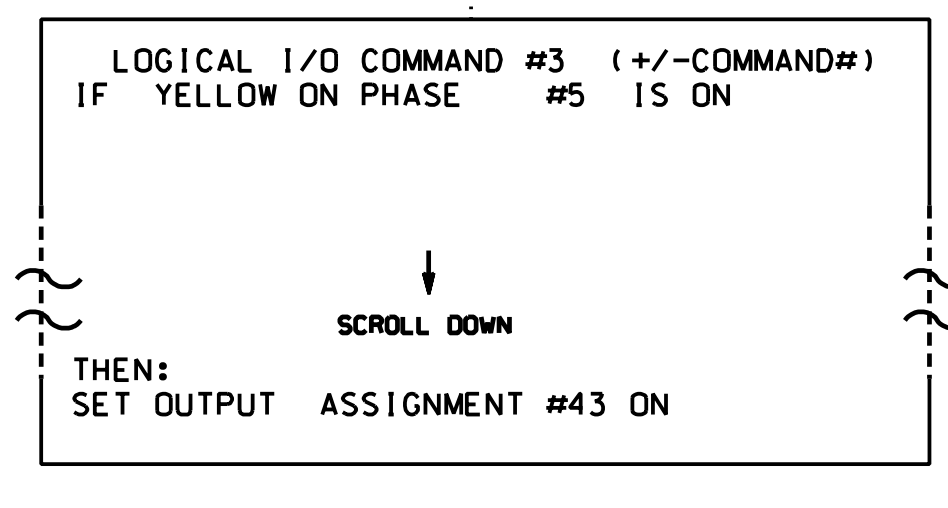
(program controller as shown below)

1. FROM MAIN MENU PRESS '2' (PHASE CONTROL), THEN '1' (PHASE CONTROL FUNCTIONS). SCROLL TO THE BOTTOM OF THE MENU AND ENABLE ACT LOGIC COMMANDS 1, 2, AND 3.

```
LOGICAL I/O COMMAND #1  (+/-COMMAND#)
IF  ACTIVE PHASE       #5  IS ON
AND RED CLEAR ON PHASE #5  IS ON


              SCROLL DOWN

THEN:
SET OUTPUT  ASSIGNMENT #42 ON
SET OUTPUT  ASSIGNMENT #43 OFF
```
NOTE: LOGIC FOR PHASE 5 RED CLEAR WHEN TRANSITIONING FROM PHASE 5 TO PHASE 6 (HEADS 51,52).

PRESS '+'

```
LOGICAL I/O COMMAND #2  (+/-COMMAND#)
IF  ACTIVE PHASE       #5  IS ON


              SCROLL DOWN

THEN:
SET OUTPUT  ASSIGNMENT #44 OFF
```
NOTE: LOGIC FOR SWITCHING FLASHING YELLOW ARROW "OFF" DURING PHASE 5 (HEADS 51,52).

PRESS '+'

```
LOGICAL I/O COMMAND #3  (+/-COMMAND#)
IF  YELLOW ON PHASE    #5  IS ON


              SCROLL DOWN

THEN:
SET OUTPUT  ASSIGNMENT #43 ON
```
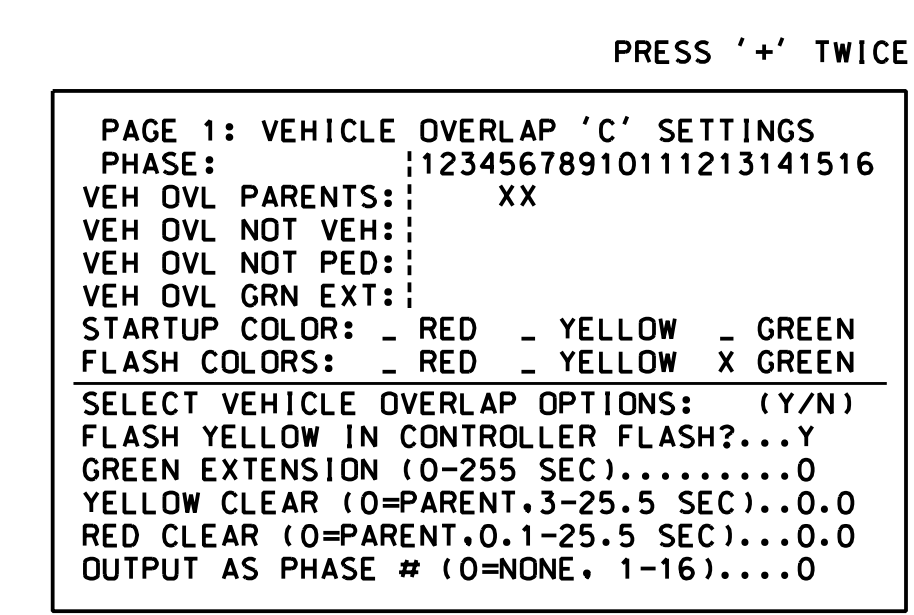NOTE: LOGIC FOR YELLOW ARROW CLEARANCE FROM PHASE 5 (HEADS 51,52).

LOGIC I/O PROCESSOR PROGRAMMING COMPLETE

```
OUTPUT REFERENCE SCHEDULE
USE TO INTERPRET LOGIC PROCESSOR

OUTPUT 42 = Overlap C Red
OUTPUT 43 = Overlap C Yellow
OUTPUT 44 = Overlap C Green
```

OVERLAP PROGRAMMING DETAIL

FOR DEFAULT PHASING

(program controller as shown below)

FROM MAIN MENU PRESS '8' (OVERLAPS), THEN '1' (VEHICLE OVERLAP SETTINGS).

PRESS '+' TWICE

```
PAGE 1: VEHICLE OVERLAP 'C' SETTINGS
 PHASE:          :1234567891011213141516
 VEH OVL PARENTS:|      XX
 VEH OVL NOT VEH:|
 VEH OVL NOT PED:|
 VEH OVL GRN EXT:|
 STARTUP COLOR: _ RED  _ YELLOW  _ GREEN
 FLASH COLORS:  _ RED  _ YELLOW  X GREEN
 SELECT VEHICLE OVERLAP OPTIONS:   (Y/N)
 FLASH YELLOW IN CONTROLLER FLASH?...Y
 GREEN EXTENSION (0-255 SEC).........0
 YELLOW CLEAR (0=PARENT.3-25.5 SEC)..0.0
 RED CLEAR (0=PARENT.0.1-25.5 SEC)...0.0
 OUTPUT AS PHASE # (0=NONE, 1-16)....0
```
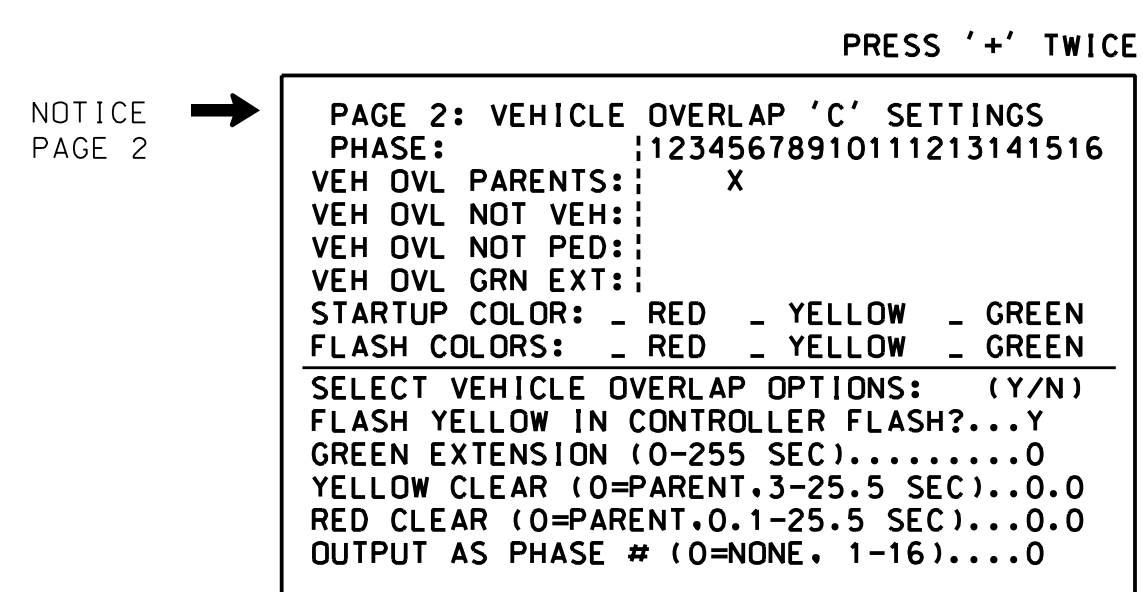← NOTICE GREEN FLASH

OVERLAP PROGRAMMING COMPLETE

OVERLAP PROGRAMMING DETAIL

FOR ALTERNATE PHASING

(program controller as shown below)

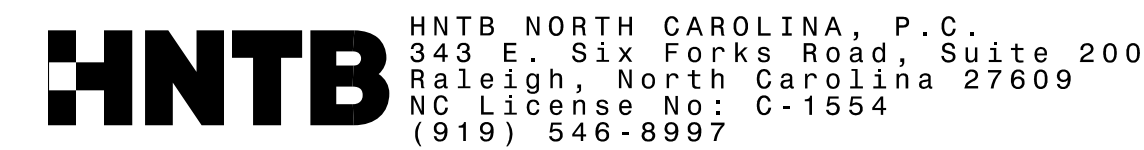FROM MAIN MENU PRESS '8' (OVERLAPS), THEN '1' (VEHICLE OVERLAP SETTINGS). PRESS 'NEXT' TO ADVANCE TO PAGE 2.

PRESS '+' TWICE

NOTICE → PAGE 2
```
PAGE 2: VEHICLE OVERLAP 'C' SETTINGS
 PHASE:          :1234567891011213141516
 VEH OVL PARENTS:|     X
 VEH OVL NOT VEH:|
 VEH OVL NOT PED:|
 VEH OVL GRN EXT:|
 STARTUP COLOR: _ RED  _ YELLOW  _ GREEN
 FLASH COLORS:  _ RED  _ YELLOW  _ GREEN
 SELECT VEHICLE OVERLAP OPTIONS:   (Y/N)
 FLASH YELLOW IN CONTROLLER FLASH?...Y
 GREEN EXTENSION (0-255 SEC).........0
 YELLOW CLEAR (0=PARENT.3-25.5 SEC)..0.0
 RED CLEAR (0=PARENT.0.1-25.5 SEC)...0.0
 OUTPUT AS PHASE # (0=NONE, 1-16)....0
```

OVERLAP PROGRAMMING COMPLETE

Electrical Detail - Sheet 2 of 4
New Installation
Final Design

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 03-1123
DESIGNED: June 2017
SEALED: 9/10/2021
REVISED: N/A

ELECTRICAL AND PROGRAMMING DETAILS FOR:

Prepared for:

NC 906 (Middleton Boulevard)
at
NC 211 Southbound Ramp

Division 03   Brunswick Co.   Southport

| PLAN DATE: | June 2017 | REVIEWED BY: A.D. Klinksiek |
| PREPARED BY: A.H. Thornburg | | REVIEWED BY: N.R. Simmons |

REVISIONS | INIT. | DATE

SEAL
NORTH CAROLINA
PROFESSIONAL
SEAL
031464
ENGINEER
NATASHA R. SIMMONS

Natasha Simmons
SIGNATURE   9/10/2021
                 DATE

SIG. INVENTORY NO. 03-1123

HNTB HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554
(919) 546-8997

750 N.Greenfield Pkwy.Garner,NC 27529