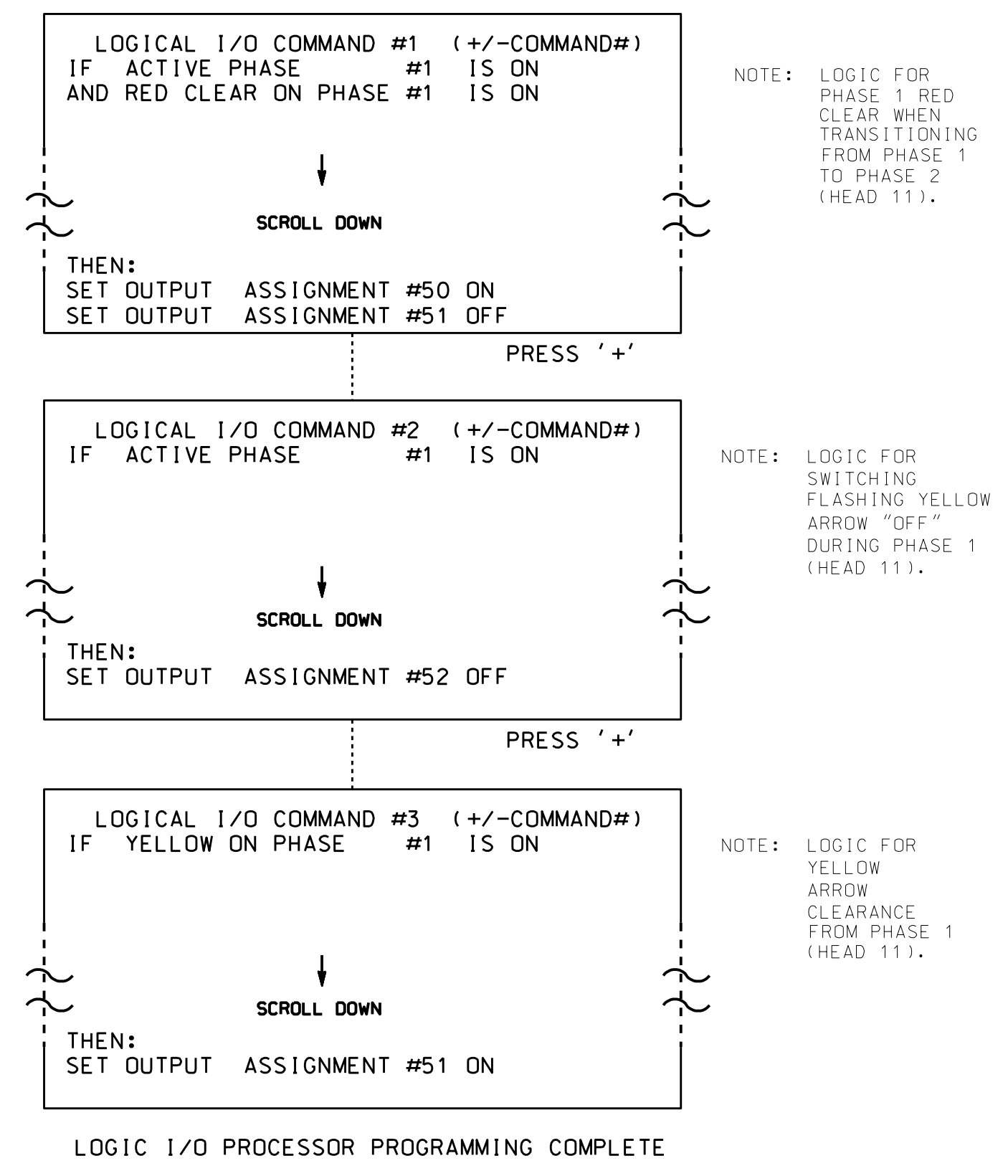## LOGICAL I/O PROCESSOR PROGRAMMING DETAIL

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.

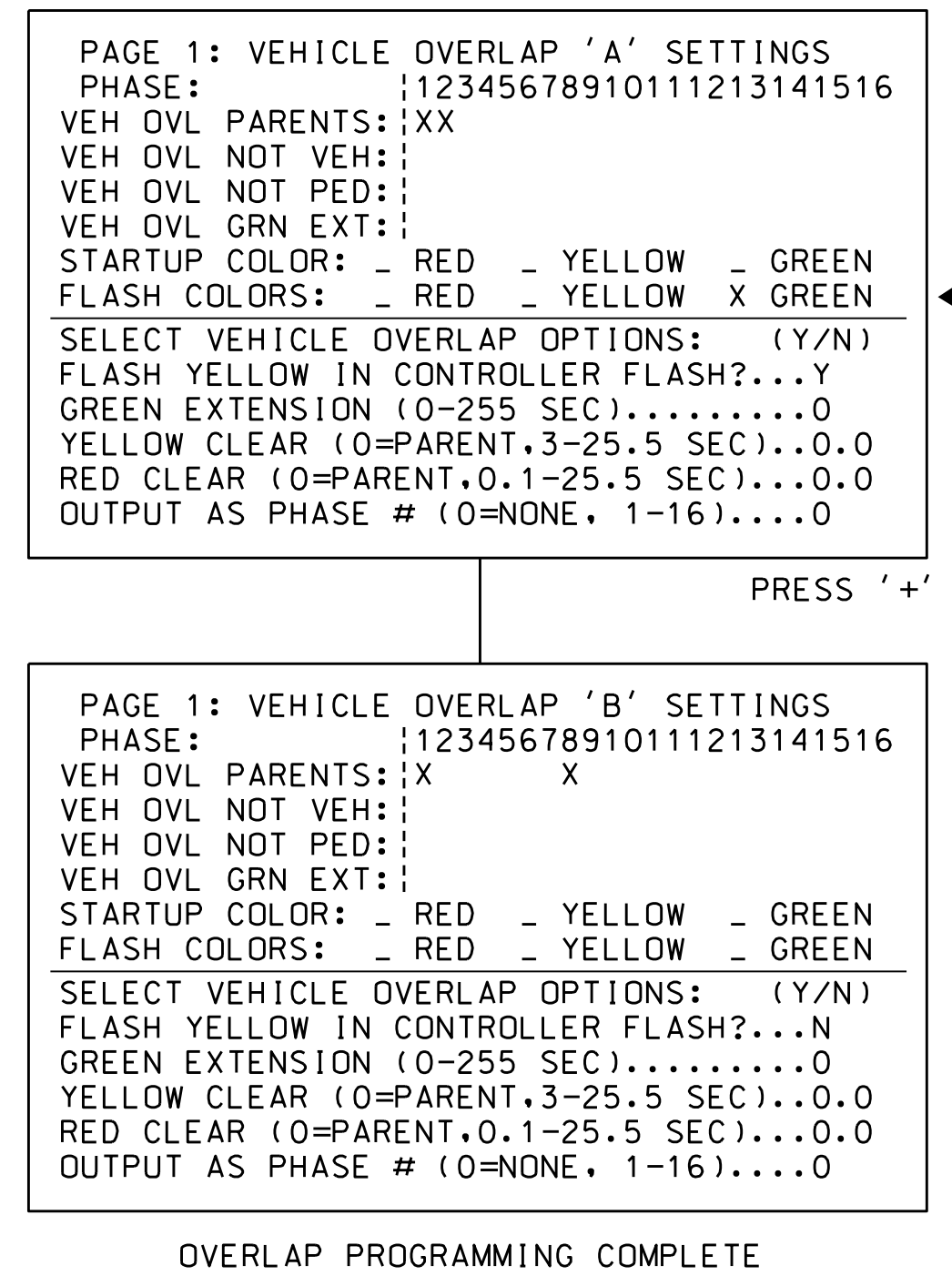2. FROM MAIN MENU PRESS '6' (OUTPUTS), THEN '3' (LOGICAL I/O PROCESSOR).

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

            ↓
        SCROLL DOWN

THEN:
SET OUTPUT  ASSIGNMENT #50 ON
SET OUTPUT  ASSIGNMENT #51 OFF
                        PRESS '+'
```

NOTE: LOGIC FOR PHASE 1 RED CLEAR WHEN TRANSITIONING FROM PHASE 1 TO PHASE 2 (HEAD 11).

```
LOGICAL I/O COMMAND #2  (+/-COMMAND#)
IF  ACTIVE PHASE      #1  IS ON

            ↓
        SCROLL DOWN

THEN:
SET OUTPUT  ASSIGNMENT #52 OFF
                        PRESS '+'
```

NOTE: LOGIC FOR SWITCHING FLASHING YELLOW ARROW "OFF" DURING PHASE 1 (HEAD 11).

```
LOGICAL I/O COMMAND #3  (+/-COMMAND#)
IF  YELLOW ON PHASE    #1  IS ON

            ↓
        SCROLL DOWN

THEN:
SET OUTPUT  ASSIGNMENT #51 ON
```

NOTE: LOGIC FOR YELLOW ARROW CLEARANCE FROM PHASE 1 (HEAD 11).

LOGIC I/O PROCESSOR PROGRAMMING COMPLETE

```
OUTPUT REFERENCE SCHEDULE

OUTPUT 50 = Overlap A Red
OUTPUT 51 = Overlap A Yellow
OUTPUT 52 = Overlap A Green
```

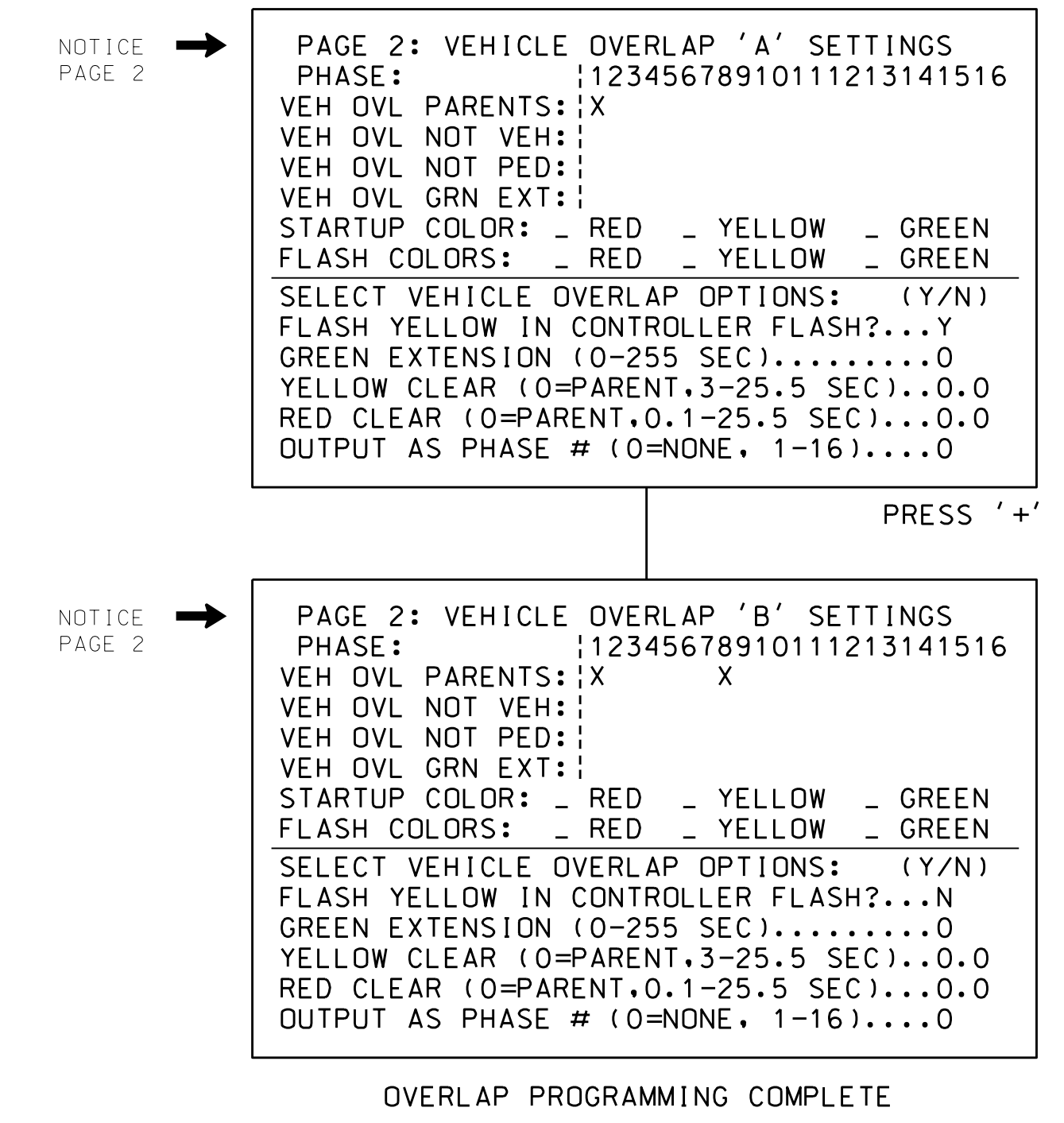## OVERLAP PROGRAMMING DETAIL

(program controller as shown below)

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

```
PAGE 1: VEHICLE OVERLAP 'A' 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  ← NOTICE GREEN FLASH

SELECT VEHICLE OVERLAP OPTIONS:   (Y/N)
FLASH YELLOW IN CONTROLLER FLASH?...Y
GREEN EXTENSION (O-255 SEC)........O
YELLOW CLEAR (O=PARENT,3-25.5 SEC)..O.O
RED CLEAR (O=PARENT,O.1-25.5 SEC)...O.O
OUTPUT AS PHASE # (O=NONE, 1-16)....O
                          PRESS '+'
```

```
PAGE 1: VEHICLE OVERLAP 'B' SETTINGS
 PHASE:          :1234567891011213141516
VEH OVL PARENTS::X        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?...N
GREEN EXTENSION (O-255 SEC).........O
YELLOW CLEAR (O=PARENT,3-25.5 SEC)..O.O
RED CLEAR (O=PARENT,O.1-25.5 SEC)...O.O
OUTPUT AS PHASE # (O=NONE, 1-16)....O
```

OVERLAP PROGRAMMING COMPLETE

OVERLAP PROGRAMMING DETAIL

FOR ALTERNATE PHASING - PAGE 2

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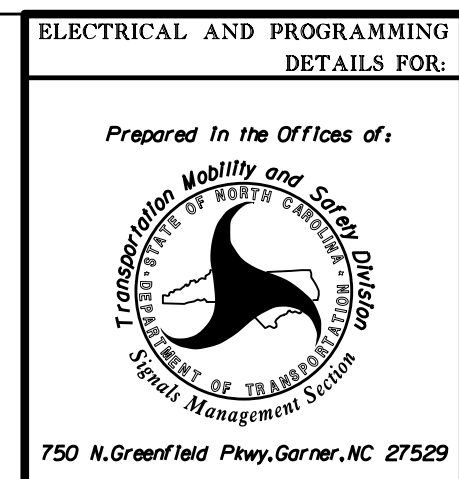
FROM MAIN MENU PRESS '8' (OVERLAPS), THEN '1' (VEHICLE OVERLAP SETTINGS). PRESS 'NEXT' TO ADVANCE TO PAGE 2.

NOTICE PAGE 2 →

```
PAGE 2: VEHICLE OVERLAP 'A' 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 (O-255 SEC).........O
YELLOW CLEAR (O=PARENT,3-25.5 SEC)..O.O
RED CLEAR (O=PARENT,O.1-25.5 SEC)...O.O
OUTPUT AS PHASE # (O=NONE, 1-16)....O
                          PRESS '+'
```

NOTICE PAGE 2 →

```
PAGE 2: VEHICLE OVERLAP 'B' SETTINGS
 PHASE:          :1234567891011213141516
VEH OVL PARENTS::X        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?...N
GREEN EXTENSION (O-255 SEC).........O
YELLOW CLEAR (O=PARENT,3-25.5 SEC)..O.O
RED CLEAR (O=PARENT,O.1-25.5 SEC)...O.O
OUTPUT AS PHASE # (O=NONE, 1-16)....O
```

OVERLAP PROGRAMMING COMPLETE

Electrical Detail - Sheet 2 of 4

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 09-0511
DESIGNED: April 2017
SEALED: 5/16/2017
REVISED:

ELECTRICAL AND PROGRAMMING DETAILS FOR:

Prepared in the Offices of:

Transportation Mobility and Safety Division
Signals Management Section
750 N.Greenfield Pkwy,Garner,NC 27529

US 158 (Reidsville Road)
at
I-74 WB Ramps

Division 9	Forsyth County	Winston-Salem
PLAN DATE: May 2017	REVIEWED BY: T. Joyce	
PREPARED BY: C. Strickland	REVIEWED BY:	

REVISIONS		INIT.	DATE

SEAL
NORTH CAROLINA
PROFESSIONAL
SEAL
030530
ZACHARY M. LITTLE
ENGINEER

DocuSigned by:
Zachary M. Little 5/23/2017
9C21EF094F5341F
DATE

SIG. INVENTORY NO. 09-0511