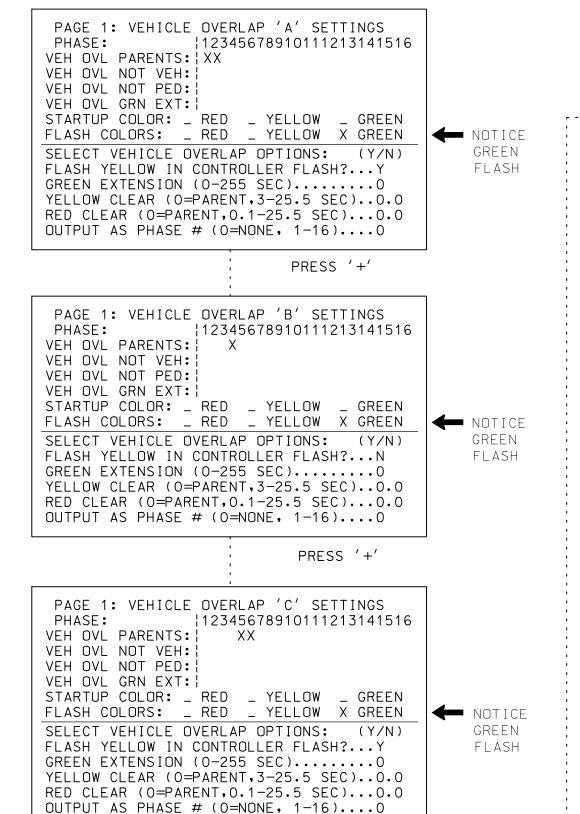
## OVERLAP PROGRAMMING DETAIL

(program controller as shown below)

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



PRESS '+'

..........

PAGE 1: VEHICLE OVERLAP 'D' SETTINGS PHASE: 12345678910111213141516 VEH OVL PARENTS: | VEH OVL NOT VEH: VEH OVL NOT PED: VEH OVL GRN EXT: | STARTUP COLOR: \_ RED \_ YELLOW \_ GREEN FLASH COLORS: \_ RED \_ YELLOW X GREEN | NOTICE SELECT VEHICLE OVERLAP OPTIONS: (Y/N) GREEN FLASH YELLOW IN CONTROLLER FLASH?...N FLASH GREEN EXTENSION (0-255 SEC)..... 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 USING + OR - KEY POSITION ON OVERLAP 'P' PAGE 1: VEHICLE OVERLAP 'P' SETTINGS THE UTILIZATION OF OVERLAP P 12345678910111213141516 ENSURES CONSISTENT CLEARANCE VEH OVL PARENTS: XX XXX X TIMING DURING TRANSITION TO VEH OVL NOT VEH: | PREEMPTION. 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 (0-255 SEC)..... YELLOW CLEAR (O=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

## FLASHER CIRCUIT MODIFICATION DETAIL

IN ORDER TO INSURE THAT SIGNALS FLASH CONCURRENTLY ON THE SAME APPROACH, MAKE THE FOLLOWING FLASHER CIRCUIT CHANGES:

- 1. ON REAR OF PDA REMOVE WIRE FROM TERM. T2-4 AND TERMINATE ON T2-2.
- 2. ON REAR OF PDA REMOVE WIRE FROM TERM, T2-5 AND TERMINATE ON T2-3.
- 3. REMOVE FLASHER UNIT 2.

THE CHANGES LISTED ABOVE TIES ALL PHASES AND OVERLAPS TO FLASHER UNIT 1.

THEN: SET OUTPUT ASSIGNMENT #42 ON SET OUTPUT ASSIGNMENT #50 ON SET OUTPUT ASSIGNMENT #43 OFF SET OUTPUT ASSIGNMENT #51 OFF PRESS '+' PRESS '+' LOGICAL I/O COMMAND #5 (+/-COMMAND#) LOGICAL I/O COMMAND #2 (+/-COMMAND#) IF ACTIVE PHASE NOTE: LOGIC FOR IF ACTIVE PHASE #1 IS ON #5 IS ON NOTE: LOGIC FOR SWITCHING SWITCHING FLASHING YELLOW FLASHING YELLOW ARROW "OFF" ARROW "OFF" DURING PHASE 5 DURING PHASE 1 (HEAD 51). (HEAD 11). SCROLL DOWN SCROLL DOWN THEN: SET OUTPUT ASSIGNMENT #44 OFF SET OUTPUT ASSIGNMENT #52 OFF PRESS '+' PRESS '+' LOGICAL I/O COMMAND #6 (+/-COMMAND#) LOGICAL I/O COMMAND #3 (+/-COMMAND#) IF YELLOW ON PHASE #5 IS ON NOTE: LOGIC FOR IF YELLOW ON PHASE #1 IS ON NOTE: LOGIC FOR YELLOW YELLOW ARROW ARROW CLEARANCE CLEARANCE FROM PHASE 5 FROM PHASE 1 (HEAD 51). (HEAD 11). SCROLL DOWN SCROLL DOWN THEN: SET OUTPUT ASSIGNMENT #43 ON SET OUTPUT ASSIGNMENT #51 ON PRESS '+' LOGIC I/O PROCESSOR PROGRAMMING COMPLETE

LOGICAL I/O PROCESSOR PROGRAMMING DETAIL

TO PRODUCE SPECIAL FYA-PPLT SIGNAL SEQUENCE

 $\sim$ 

IF ACTIVE PHASE

LOGICAL I/O COMMAND #4 (+/-COMMAND#)

AND RED CLEAR ON PHASE #5 IS ON

SCROLL DOWN

#5 IS ON

NOTE: LOGIC FOR

PHASE 5 RED

CLEAR WHEN

TO PHASE 6

(HEAD 51).

TRANSITIONING

FROM PHASE 5

(program controller as shown below)

NOTE: LOGIC FOR

PHASE 1 RED

FROM PHASE 1

TO PHASE 2

(HEAD 11).

TRANSITIONING

CLEAR WHEN

1. FROM MAIN MENU PRESS '2' (PHASE CONTROL), THEN '1' (PHASE

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

#1 IS ON

ENABLE ACT LOGIC COMMANDS 1, 2, 3, 4, 5 AND 6.

LOGICAL I/O COMMAND #1 (+/-COMMAND#)

AND RED CLEAR ON PHASE #1 IS ON

SCROLL DOWN

PROCESSOR).

 $\sim$ 

IF ACTIVE PHASE

CONTROL FUNCTIONS). SCROLL TO THE BOTTOM OF THE MENU AND

NC Dept of Transportation Division of Highways Final Drawing Date: 7/10/2018 R. N. Zinser ITS & Signals Unit

OUTPUT REFERENCE SCHEDULE

OUTPUT 42 = Overlap C Red OUTPUT 43 = Overlap C Yellow

OUTPUT 44 = Overlap C Green

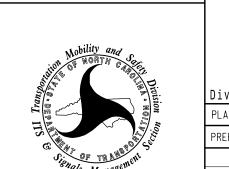
OUTPUT 52 = Overlap A Green

OUTPUT 50 = Overlap A Red OUTPUT 51 = Overlap A Yellow

> This plan supersedes the one signed and sealed on 2/15/2017.

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 14-Ø196 DESIGNED: JULY 2018 SEALED: 7/10/2018 REVISED:





SIGNAL UPGRADE - FINAL ELECTRICAL DETAIL SHEET 2 OF 3 ELECTRICAL AND PROGRAMMING

SR 1547 (Old Airport Road)/ SR 1551 (Mills Gap Road)

SR 1545 (Cane Creek Road) Henderson County PLAN DATE: July 2018

NE of Fletcher REVIEWED BY: R Dubnicka PREPARED BY: J Trueblood REVIEWED BY: J Carroll INIT. DATE REVISIONS

**CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED** 

DOCUMENT NOT

SIG. INVENTORY NO. 14-0196