PROJECT REFERENCE NO.	SHEET NO.
W-5514	Sig.5.2

PED OVERLAP "A"
OUTPUT ASSIGNMENT PROGRAMMING DETAIL
(program controller as shown below)

1. FROM MAIN MENU PRESS '6' (OUTPUTS), THEN '1' (OUTPUT ASSIGNMENTS).
2. WITH CURSOR IN "OUTPUT ASSIGNMENT #" FIELD, USE + KEY TO FIND THE OUTPUT ASSIGNMENT NUMBER 39, AS SHOWN BELOW.
3. PROGRAM CONTROLLER AS SHOWN:

SCROLL DOWN TO VIEW ALL DATA

```
PAGE:1  C1 PIN:85   VEHICLE OVERLAP
OUTPUT ASSIGNMENT #.................39
FREQUENCY (0=DEFAULT) (0-25.5 HZ)...0.0
DUTY CYCLE (0=DEFAULT) (0 - 100%)...0
MODE (0=SOLID, 1=FLASH..............0
SELECT ASSIGNMENT:
NOT ENABLED.........................
VEHICLE PHASE.......................
PEDESTRIAN PHASE....................
VEHICLE OVERLAP.....................Y
PEDESTRIAN OVERLAP..................Y
WATCHDOG............................
DETECTOR RESET......................
ADVANCE BEACON......................
OUT OF PHASE FLASHER................
CONTROLLER FLASH....................
RUN FREE............................
RESERVED............................
PREEMPT.............................
SOFT PREEMPT........................
ANY PREEMPT.........................
COORDINATION PLAN...................
OFFSET..............................
PHASE CHECK.........................
PHASE ON............................
PHASE NEXT..........................
```

THIS ENTRY IS EXISTING BY DEFAULT

```
PAGE:1  C1 PIN:85   VEHICLE OVERLAP
SELECT PED OVERLAP (A=1, P=16).......1
SELECT COLOR (0=DWALK,1=YEL,2=WALK)..0
```

WHEN A "Y" IS ENTERED FOR "PEDESTRIAN OVERLAP" THE SCREEN SHOWN ABOVE WILL APPEAR. ENTER DATA AS SHOWN.

PRESS ENTER AFTER ENTERING DATA, THEN ESC.

DISPLAY WILL NOW SHOW THE SPECIFIED OUTPUT ASSIGNED AS "PEDESTRIAN OVERLAP" AS SHOWN BELOW:

```
PAGE:1  C1 PIN:85   PEDESTRIAN OVERLAP
OUTPUT ASSIGNMENT #.................39
FREQUENCY (0=DEFAULT) (0-25.5 HZ)...0.0
DUTY CYCLE (0=DEFAULT) (0 - 100%)...0
MODE (0=SOLID, 1=FLASH..............0
SELECT ASSIGNMENT:
NOT ENABLED.........................
VEHICLE PHASE.......................
PEDESTRIAN PHASE....................
VEHICLE OVERLAP.....................
PEDESTRIAN OVERLAP..................Y
WATCHDOG............................
DETECTOR RESET......................
ADVANCE BEACON......................
OUT OF PHASE FLASHER................
CONTROLLER FLASH....................
RUN FREE............................
RESERVED............................
PREEMPT.............................
SOFT PREEMPT........................
ANY PREEMPT.........................
COORDINATION PLAN...................
OFFSET..............................
PHASE CHECK.........................
PHASE ON............................
PHASE NEXT..........................
```

PEDESTRIAN OVERLAP A (DON'T WALK) LOAD SWITCH S13 (OLD)

1. FROM MAIN MENU PRESS '6' (OUTPUTS), THEN '1' (OUTPUT ASSIGNMENTS).
2. WITH CURSOR IN "OUTPUT ASSIGNMENT #" FIELD, USE + KEY TO FIND THE OUTPUT ASSIGNMENT NUMBER 41, AS SHOWN BELOW.
3. PROGRAM CONTROLLER AS SHOWN:

SCROLL DOWN TO VIEW ALL DATA

```
PAGE:1  C1 PIN:87   VEHICLE OVERLAP
OUTPUT ASSIGNMENT #.................41
FREQUENCY (0=DEFAULT) (0-25.5 HZ)...0.0
DUTY CYCLE (0=DEFAULT) (0 - 100%)...0
MODE (0=SOLID, 1=FLASH..............0
SELECT ASSIGNMENT:
NOT ENABLED.........................
VEHICLE PHASE.......................
PEDESTRIAN PHASE....................
VEHICLE OVERLAP.....................Y
PEDESTRIAN OVERLAP..................Y
WATCHDOG............................
DETECTOR RESET......................
ADVANCE BEACON......................
OUT OF PHASE FLASHER................
CONTROLLER FLASH....................
RUN FREE............................
RESERVED............................
PREEMPT.............................
SOFT PREEMPT........................
ANY PREEMPT.........................
COORDINATION PLAN...................
OFFSET..............................
PHASE CHECK.........................
PHASE ON............................
PHASE NEXT..........................
```

THIS ENTRY IS EXISTING BY DEFAULT

```
PAGE:1  C1 PIN:87   VEHICLE OVERLAP
SELECT PED OVERLAP (A=1, P=16).......1
SELECT COLOR (0=DWALK,1=YEL,2=WALK)..2
```

WHEN A "Y" IS ENTERED FOR "PEDESTRIAN OVERLAP" THE SCREEN SHOWN ABOVE WILL APPEAR. ENTER DATA AS SHOWN.

PRESS ENTER AFTER ENTERING DATA, THEN ESC.

DISPLAY WILL NOW SHOW THE SPECIFIED OUTPUT ASSIGNED AS "PEDESTRIAN OVERLAP" AS SHOWN BELOW:

```
PAGE:1  C1 PIN:87   PEDESTRIAN OVERLAP
OUTPUT ASSIGNMENT #.................41
FREQUENCY (0=DEFAULT) (0-25.5 HZ)...0.0
DUTY CYCLE (0=DEFAULT) (0 - 100%)...0
MODE (0=SOLID, 1=FLASH..............0
SELECT ASSIGNMENT:
NOT ENABLED.........................
VEHICLE PHASE.......................
PEDESTRIAN PHASE....................
VEHICLE OVERLAP.....................
PEDESTRIAN OVERLAP..................Y
WATCHDOG............................
DETECTOR RESET......................
ADVANCE BEACON......................
OUT OF PHASE FLASHER................
CONTROLLER FLASH....................
RUN FREE............................
RESERVED............................
PREEMPT.............................
SOFT PREEMPT........................
ANY PREEMPT.........................
COORDINATION PLAN...................
OFFSET..............................
PHASE CHECK.........................
PHASE ON............................
PHASE NEXT..........................
```

PEDESTRIAN OVERLAP A (WALK) LOAD SWITCH S13 (OLD)

INPUT ASSIGNMENT PROGRAMMING DETAIL FOR PHASE 5 PEDESTRIAN DETECTOR
(program controller as shown below)

FROM MAIN MENU PRESS '5' (INPUTS). PRESS THE '+' KEY UNTIL INPUT 22 IS REACHED.

```
PAGE: 1 C1 PIN:60  VEHICLE DETECTOR
INPUT ASSIGNMENT #..................22
DEBOUNCE TIME (0-25.5 SEC)..........0.5
DELAY TIME (0-25.5 SEC).............0.0
HOLD-OVER TIME (0-25.5 SEC).........0.0
ASSIGNMENT SELECTION:
NOT ENABLED (Y/N)...................
VEHICLE DETECTOR (1-64).............11
PEDESTRIAN DETECTOR (1-16)..........5
ALTERNATE PED DETECTOR (1-16)......_
PREEMPT (1-10)......................_
INVERTED PREEMPT (1-10)............._
STOP TIME (Y/N)....................._
FLASH SENSE (Y/N)..................._
DOOR OPEN (Y/N)....................._
MANUAL CONTROL ENABLE (Y/N)........._
MANUAL CONTROL ADVANCE (Y/N)........_
SPECIAL FUNCTION ALARM (1-8)........_
TOD HOUR SYCHRONIZATION (0-23)......_
FORCE OFF RING (1-4)................_
HOLD PHASES (1-16).................._
PLAN (65=FLSH,66=FREE)..._  OFFSET#.._
CHANGE PHASE SEQUENCE PAGE (1-12)...._
CHANGE PHASE TIMING PAGE (1-4)......._
CHANGE PHASE CONTROL PAGE (1-4)......_
CHANGE OVERLAP CONTROL PAGE (1-4)...._
CHANGE INPUT PAGE (1-4)............._
CHANGE OUTPUT PAGE (1-4)............_
OVERRIDE PHASE CONTROL FUNCTION (Y)._
```

DEFAULT DETECTOR NUMBER WILL REMAIN UNTIL '5' IS ENTERED. ENTER A '5'

```
PAGE: 1 C1 PIN:60  PEDESTRIAN DETECTOR
INPUT ASSIGNMENT #..................22
DEBOUNCE TIME (0-25.5 SEC)..........0.5
DELAY TIME (0-25.5 SEC).............0.0
HOLD-OVER TIME (0-25.5 SEC).........0.0
ASSIGNMENT SELECTION:
NOT ENABLED (Y/N)...................
VEHICLE DETECTOR (1-64)............_
PEDESTRIAN DETECTOR (1-16)..........5
ALTERNATE PED DETECTOR (1-16)......_
PREEMPT (1-10)......................_
INVERTED PREEMPT (1-10)............._
STOP TIME (Y/N)....................._
FLASH SENSE (Y/N)..................._
DOOR OPEN (Y/N)....................._
MANUAL CONTROL ENABLE (Y/N)........._
MANUAL CONTROL ADVANCE (Y/N)........_
SPECIAL FUNCTION ALARM (1-8)........_
TOD HOUR SYCHRONIZATION (0-23)......_
FORCE OFF RING (1-4)................_
HOLD PHASES (1-16).................._
PLAN (65=FLSH,66=FREE)..._  OFFSET#.._
CHANGE PHASE SEQUENCE PAGE (1-12)...._
CHANGE PHASE TIMING PAGE (1-4)......._
CHANGE PHASE CONTROL PAGE (1-4)......_
CHANGE OVERLAP CONTROL PAGE (1-4)...._
CHANGE INPUT PAGE (1-4)............._
CHANGE OUTPUT PAGE (1-4)............_
OVERRIDE PHASE CONTROL FUNCTION (Y)._
```

PROGRAMMING COMPLETE

SPECIAL CONFLICT MONITOR WIRING DETAIL TO REMOVE S13 YELLOW CIRCUIT MONITORING FOR PED OLA
(follow conflict monitor wiring instructions below)

1. Remove, tape and label conflict monitor wire attached to field terminal A102.
2. Install yellow flash program block, for load switch S13.

PEDESTRIAN OVERLAP PROGRAMMING DETAIL
(program controller as shown below)

FROM MAIN MENU PRESS '8' (OVERLAPS), THEN '2' (PEDESTRIAN OVERLAP SETTINGS).

```
 PAGE 1: PEDESTRIAN OVERLAP 'A' SETTINGS
 PHASE:          ¦123456789101112131415 16
PED OVL PARENTS:¦    X  X
```

OVERLAP PROGRAMMING COMPLETE

DETECTOR ASSIGNMENT PROGRAMMING DETAIL FOR PED 5
(program controller as shown below)

1. FROM MAIN MENU SELECT '7' (DETECTORS), THEN '2' (PEDESTRIAN DETECTOR ASSIGNMENTS).
2. CYCLE TO PED DETECTOR #5 BY REPEATEDLY DEPRESSING '+' KEY.
3. ASSIGN PHASE 5 TO PED DETECTOR #5, AND ENABLE DETECTOR.

PROGRAMMING COMPLETE

$$$$$$SYSTIME$$$$$
$$$$$$SYSTIMEMDY$$$$$
$$$$$$USERNAME$$$$

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 06-0212
DESIGNED: April 2015
SEALED: 4-27-2015
REVISED:

vhb
4000 WestChase Boulevard, Suite 530
Raleigh, NC 27607
NC License No. C-3705

Signal Upgrade - Final ELECTRICAL DETAIL SHEET 2 OF 2

ELECTRICAL AND PROGRAMMING DETAILS FOR:

Prepared for the Offices of:
Transportation Mobility and Safety Division
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
Signals Management Section
750 N.Greenfield Pkwy,Garner,NC 27529

SR 1007 (Owen Drive)
at
SR 1141 (Cumberland Road)

Division 6 | Cumberland County | Fayetteville

PLAN DATE:	April 2015	REVIEWED BY:	J.L. Lewis
PREPARED BY:	D.J. Darity	VHB PROJECT NO.:	38286.03

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 19713 ENGINEER DONALD J. DARITY
2015.04.27 11:45:08 -04'00'

SIG. INVENTORY NO. 06-0212