OVERLAP "E"
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 45 , AS SHOWN BELOW.
3. PROGRAM CONTROLLER AS SHOWN:

```
PAGE:1  C1 PIN:91    NOT ENABLED
OUTPUT ASSIGNMENT #.....................45
FREQUENCY (O=DEFAULT) (O-25.5 HZ)...O.O
DUTY CYCLE (O=DEFAULT) (O - 100%)...O
MODE (O=SOLID, 1=FLASH..............O
SELECT ASSIGNMENT:
NOT ENABLED.......................Y
VEHICLE PHASE.....................
PEDESTRIAN PHASE..................
VEHICLE OVERLAP...................Y
PEDESTRIAN OVERLAP................
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

SCROLL DOWN TO VIEW ALL DATA ↓

```
PAGE:1  C1 PIN:91  NOT ENABLED
SELECT VEHICLE OVERLAP (A=1, P=16)...5
SELECT COLOR (O=RED,1=YEL,2=GRN).....O
```

WHEN A "Y" IS ENTERED FOR "VEHICLE 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 "VEHICLE OVERLAP" AS SHOWN BELOW:

```
PAGE:1  C1 PIN:91    VEHICLE OVERLAP
OUTPUT ASSIGNMENT #.....................45
FREQUENCY (O=DEFAULT) (O-25.5 HZ)...O.O
DUTY CYCLE (O=DEFAULT) (O - 100%)...O
MODE (O=SOLID, 1=FLASH..............O
SELECT ASSIGNMENT:
NOT ENABLED.......................
VEHICLE PHASE.....................
PEDESTRIAN PHASE..................
VEHICLE OVERLAP...................Y
PEDESTRIAN OVERLAP................
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........................
```

VEHICLE OVERLAP E (RED) LOAD SWITCH AUX S3

---

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 46, AS SHOWN BELOW.
3. PROGRAM CONTROLLER AS SHOWN:

```
PAGE:1  C1 PIN:93  NOT ENABLED
OUTPUT ASSIGNMENT #.....................46
FREQUENCY (O=DEFAULT) (O-25.5 HZ)...O.O
DUTY CYCLE (O=DEFAULT) (O - 100%)...O
MODE (O=SOLID, 1=FLASH..............O
SELECT ASSIGNMENT:
NOT ENABLED.......................Y
VEHICLE PHASE.....................
PEDESTRIAN PHASE..................
VEHICLE OVERLAP...................Y
PEDESTRIAN OVERLAP................
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

SCROLL DOWN TO VIEW ALL DATA ↓

```
PAGE:1  C1 PIN:93  NOT  ENABLED
SELECT VEHICLE OVERLAP (A=1, P=16)...5
SELECT COLOR (O=RED,1=YEL,2=GRN).....2
```

WHEN A "Y" IS ENTERED FOR "VEHICLE 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 "VEHICLE OVERLAP" AS SHOWN BELOW:

```
PAGE:1  C1 PIN:93    VEHICLE OVERLAP
OUTPUT ASSIGNMENT #.....................46
FREQUENCY (O=DEFAULT) (O-25.5 HZ)...O.O
DUTY CYCLE (O=DEFAULT) (O - 100%)...O
MODE (O=SOLID, 1=FLASH..............O
SELECT ASSIGNMENT:
NOT ENABLED.......................
VEHICLE PHASE.....................
PEDESTRIAN PHASE..................
VEHICLE OVERLAP...................Y
PEDESTRIAN OVERLAP................
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........................
```

VEHICLE OVERLAP E (GREEN) LOAD SWITCH AUX S3

---

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 54, AS SHOWN BELOW.
3. PROGRAM CONTROLLER AS SHOWN:

```
PAGE:1  C1 PIN:101  CONTROLLER FLASH
OUTPUT ASSIGNMENT #.....................54
FREQUENCY (O=DEFAULT) (O-25.5 HZ)...O.O
DUTY CYCLE (O=DEFAULT) (O - 100%)...O
MODE (O=SOLID, 1=FLASH..............O
SELECT ASSIGNMENT:
NOT ENABLED.......................
VEHICLE PHASE.....................
PEDESTRIAN PHASE..................
VEHICLE OVERLAP...................Y
PEDESTRIAN OVERLAP................
WATCHDOG..........................
DETECTOR RESET....................
ADVANCE BEACON....................
OUT OF PHASE FLASHER..............
CONTROLLER FLASH..................Y
RUN FREE..........................
RESERVED..........................
PREEMPT...........................
SOFT PREEMPT......................
ANY PREEMPT.......................
COORDINATION PLAN.................
OFFSET............................
PHASE CHECK.......................
PHASE ON..........................
PHASE NEXT........................
```
← THIS ENTRY IS EXISTING BY DEFAULT

SCROLL DOWN TO VIEW ALL DATA ↓

```
PAGE:1  C1 PIN:101  CONTROLLER FLASH
SELECT VEHICLE OVERLAP (A=1, P=16)...5
SELECT COLOR (O=RED,1=YEL,2=GRN).....1
```

WHEN A "Y" IS ENTERED FOR "VEHICLE 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 "VEHICLE OVERLAP" AS SHOWN BELOW:

```
PAGE:1  C1 PIN:101    VEHICLE OVERLAP
OUTPUT ASSIGNMENT #.....................54
FREQUENCY (O=DEFAULT) (O-25.5 HZ)...O.O
DUTY CYCLE (O=DEFAULT) (O - 100%)...O
MODE (O=SOLID, 1=FLASH..............O
SELECT ASSIGNMENT:
NOT ENABLED.......................
VEHICLE PHASE.....................
PEDESTRIAN PHASE..................
VEHICLE OVERLAP...................Y
PEDESTRIAN OVERLAP................
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........................
```

VEHICLE OVERLAP E (YELLOW) LOAD SWITCH AUX S3

RAILROAD PREEMPTION PROGRAMMING DETAIL
(program controller as shown below)

From Main Menu press 'A' (Preemption), then '1'
(Standard Preemptions). Press 'NEXT' twice
to advance to Preemption #3.

```
PREEMPTION #3  SETTINGS (NEXT:1-10)
INTERVAL/TIMING | CLEAR/DWELL PHASES
  GRN  YEL  RED |12345678910111213141516
1  32  3.8  2.4 | X  X
2 255  0.0  0.0 |       X
3   0  0.0  0.0 |
4   0  0.0  0.0 |
5   1  0.0  0.0 | X  X
EXIT CALLS      |
                OPTIONS
PRIORITY (Y/N TO SELECT) ............HIGH
DELAY TIMER (O-255 SEC) ..............O
MIN GREEN BEFORE PRE (O= DEFAULT)....1
PED CLEAR BEFORE PRE (O= DEFAULT)....O
YELLOW CLEAR BEFORE PRE (O= DEFAULT).O.O
RED CLEAR BEFORE PRE (O= DEFAULT)....O.O
DWELL MIN TIMER (O-255 SEC) .........7
DWELL MAX TIMER (O=OFF,1-255MIN) ....O
DWELL HOLD-OVER TIMER (O-255) .......O
LATCH CALL? .........................N
LINK TO NEXT PREEMPT? ...............N
ENABLE BACKUP PROTECTION? ...........N
HOLD CLEAR 1 PHASES DURING DELAY? ...N
FAST GREEN FLASH DWELL PHASES? ......N
PED CLEARANCE THROUGH YELLOW? .......N
INHIBIT OVERLAP GREEN EXTENSION? ....N
SERVICE DURING SOFTWARE FLASH? ......N
REST IN RED DURING DWELL INTERVAL? ..N
FLASH DWELL INTERVAL? ...............N
ALLOW PEDS IN DWELL INTERVAL? .......N
RE-TIME DWELL INTERVAL? .............N
OVERLAPS:            | ABCDEFGHIJKLMNOP
DWELL INT FLASH YELLOW|
OMIT OVERLAPS:       | X    X
```
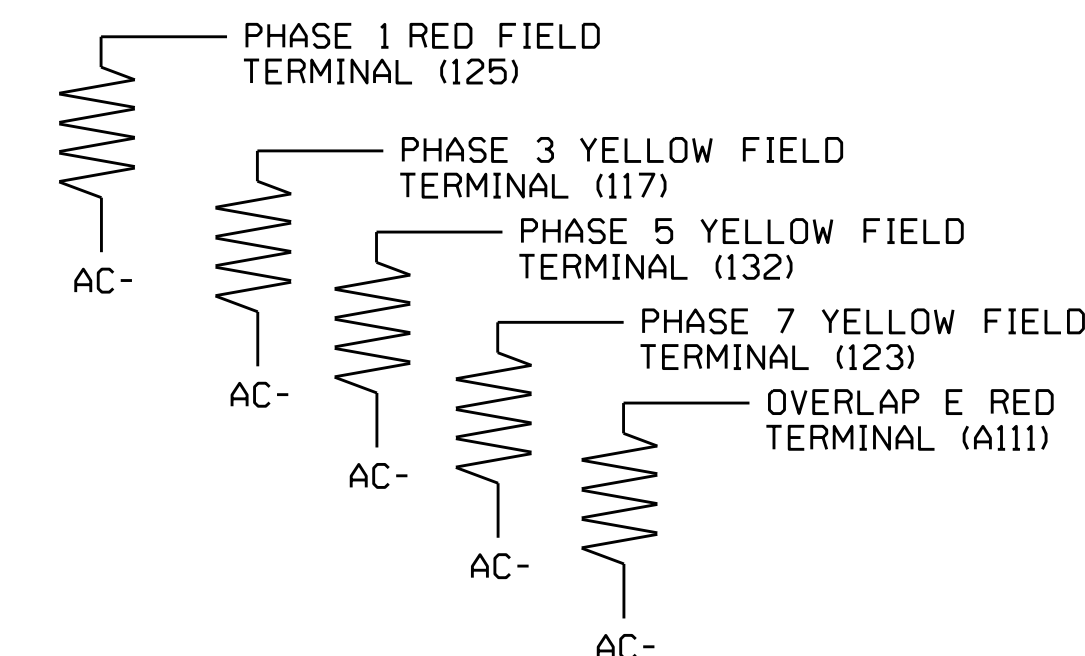
LOAD RESISTOR INSTALLATION DETAIL
(install resistors as shown below)

ACCEPTABLE VALUES

VALUE (ohms)	WATTAGE
1.5K - 1.9K	25W (min)
2.0K - 3.0K	10W (min)

PHASE 1 RED FIELD TERMINAL (125)
PHASE 3 YELLOW FIELD TERMINAL (117)
PHASE 5 YELLOW FIELD TERMINAL (132)
PHASE 7 YELLOW FIELD TERMINAL (123)
OVERLAP E RED TERMINAL (A111)

AC-
AC-
AC-
AC-
AC-

```
THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 08-0707
DESIGNED: July 2014
SEALED: 5-06-15
REVISED: N/A
```

ELECTRICAL DETAIL SHEET 3 OF 5