

### SCHOOL FLASHER (101) (wire flashers as shown below)

#### CABINET CONNECTION

#### FIELD CONNECTION



### SCHOOL FLASHER (102) (wire flashers as shown below)

#### CABINET CONNECTION

#### FIELD CONNECTION



### IMPORTANT

- Ensure that the white keyed plug located behind rear panel of output file labeled 2PY-4PY-6PY-8PY is disconnected. This will disconnect conflict monitor wires from field signal terminals 105 and 111 shown on flasher wiring detail above.
- Install loadswitches in output file slots S6 and S12.
- To activate school zone flasher operation as indicated on the signal plan, program outputs 35 and 36 as shown on this sheet.
- Operational times and dates are determined by the City Traffic Engineer. See this sheet for the scheduling programming detail.

### EVENT #1 SCHEDULING (AM) SCHOOL FLASHER PROGRAMMING DETAIL

(program controller as shown below)

FROM MAIN MENU PRESS 'B' (SCHEDULING),

```

SCHEDULED EVENT #1      NOT ASSIGNED*
START DATE (MM/DD).....**/**
END DATE (MM/DD).....**/**
START TIME (HH:MM).....**/**
STOP TIME (HH:MM).....**/**
DOW   ISUN MON TUE WED THR FRI SAT
ENABLED I   X   X   X   X   X
EVENT GROUPS 12345678910111213141516
ASSIGNED

DELETE EVENT WHEN COMPLETED?.....N
CONTINUOUS EVENT?.....N
INVERT EVENT?.....N
SELECT 1 EVENT TYPE:
EVENT GROUP (1-16).....
PLAN (65=FLSH,66=FREE)..... OFFSET#...
PLAN PRIORITY: LOW... MED... HIGH...
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).....
SET OUTPUT ON (1-64).....35
SET OUTPUT OFF (1-64).....
SET INPUT ON (1-64).....
SET INPUT OFF (1-64).....
ENABLE FAILURES LOG?.....
ENABLE EVENTS LOG?.....
ENABLE DATA ENTRIES LOG?.....
ENABLE COORDINATION PLANS LOG?.....
ENABLE SPECIAL FUNCTIONS LOG?.....
ENABLE SLIT MONITOR LOG?.....
ENABLE DETECTOR DATA LOG?.....
ENABLE DETECTOR (1-64).....
ENABLE DETECTOR DIAGNOSTICS (1-64)...
ENABLE DET STRETCH / DELAY (1-64)...
ENABLE DET STOP BAR MODE (1-64)...
SET LOGIC FLAG ON (1-16).....
SET LOGIC FLAG OFF (1-64).....
OVERRIDE PHASE CONTROL FUNCTIONS?....

```

### EVENT #2 SCHEDULING (PM) SCHOOL FLASHER PROGRAMMING DETAIL

(program controller as shown below)

FROM MAIN MENU PRESS 'B' (SCHEDULING),

```

SCHEDULED EVENT #2      NOT ASSIGNED*
START DATE (MM/DD).....**/**
END DATE (MM/DD).....**/**
START TIME (HH:MM).....**/**
STOP TIME (HH:MM).....**/**
DOW   ISUN MON TUE WED THR FRI SAT
ENABLED I   X   X   X   X   X
EVENT GROUPS 12345678910111213141516
ASSIGNED

DELETE EVENT WHEN COMPLETED?.....N
CONTINUOUS EVENT?.....N
INVERT EVENT?.....N
SELECT 1 EVENT TYPE:
EVENT GROUP (1-16).....
PLAN (65=FLSH,66=FREE)..... OFFSET#...
PLAN PRIORITY: LOW... MED... HIGH...
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).....
SET OUTPUT ON (1-64).....35
SET OUTPUT OFF (1-64).....
SET INPUT ON (1-64).....
SET INPUT OFF (1-64).....
ENABLE FAILURES LOG?.....
ENABLE EVENTS LOG?.....
ENABLE DATA ENTRIES LOG?.....
ENABLE COORDINATION PLANS LOG?.....
ENABLE SPECIAL FUNCTIONS LOG?.....
ENABLE SLIT MONITOR LOG?.....
ENABLE DETECTOR DATA LOG?.....
ENABLE DETECTOR (1-64).....
ENABLE DETECTOR DIAGNOSTICS (1-64)...
ENABLE DET STRETCH / DELAY (1-64)...
ENABLE DET STOP BAR MODE (1-64)...
SET LOGIC FLAG ON (1-16).....
SET LOGIC FLAG OFF (1-64).....
OVERRIDE PHASE CONTROL FUNCTIONS?....

```

\* AFTER PROGRAMMING, THIS SPACE WILL READ 'OUTPUT OVERRIDE'.  
 \*\*/\*\* TIMES AND DATES DETERMINED BY THE CITY TRAFFIC ENGINEER.

### SCHOOL FLASHER OUTPUT ASSIGNMENT PROGRAMMING DETAIL

(program controller as shown below)

- FROM MAIN MENU PRESS '6' (OUTPUTS), THEN '1' (OUTPUT ASSIGNMENTS).
- WITH CURSOR IN "OUTPUT ASSIGNMENT #" FIELD, USE '+' KEY TO FIND THE OUTPUT ASSIGNMENT NUMBER 35, AS SHOWN BELOW.
- PROGRAM CONTROLLER AS SHOWN:

```

PAGE:1 C1 PIN:37 NOT ENABLED
OUTPUT ASSIGNMENT #.....35
FREQUENCY (0=DEFAULT) (0-25.5 HZ)...1.0
DUTY CYCLE (0=DEFAULT) (0 - 100%)...50
MODE (0=SOLID, 1=FLASH).....1
SELECT ASSIGNMENT:
NOT ENABLED.....Y
VEHICLE PHASE.....
PEDESTRIAN PHASE.....
VEHICLE OVERLAP.....
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.....

```

THE FIRST THREE PROGRAMMING ROWS DEFINE THE OUTPUT TO FLASH, ALONG WITH THE RATE IN WHICH IT WILL FLASH.

LEAVE THIS ENTRY AS IS

PRESS '+' KEY FOR OUTPUT ASSIGNMENT 36 (C1 PIN 38)

```

PAGE:1 C1 PIN:38 NOT ENABLED
OUTPUT ASSIGNMENT #.....36
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.....Y
VEHICLE PHASE.....
PEDESTRIAN PHASE.....
VEHICLE OVERLAP.....
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.....

```

THE NOT ENABLED "Y" WILL REMAIN UNTIL FUNCTION OF THIS OUTPUT IS CHANGED. DO NOT ENTER A "N".

```

PAGE:1 C1:38 NOT ENABLED
SELECT OUTPUT ASSIGNMENT (1-64).....35

```

WHEN A "Y" IS ENTERED FOR "OUT OF PHASE FLASHER" 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 "OUT OF PHASE FLASHER" AS SHOWN BELOW:

```

PAGE:1 C1 PIN:38 OUT OF PHASE FLASHER
OUTPUT ASSIGNMENT #.....36
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.....Y
VEHICLE PHASE.....
PEDESTRIAN PHASE.....
VEHICLE OVERLAP.....
PEDESTRIAN OVERLAP.....
WATCHDOG.....
DETECTOR RESET.....
ADVANCE BEACON.....
OUT OF PHASE FLASHER.....Y
CONTROLLER FLASH.....
RUN FREE.....
RESERVED.....
PREEMPT.....
SOFT PREEMPT.....
ANY PREEMPT.....
COORDINATION PLAN.....
OFFSET.....
PHASE CHECK.....
PHASE ON.....
PHASE NEXT.....

```

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: HP0317  
 DESIGNED: March 2015  
 SEALED: June 5, 2015  
 REVISED:

### Signal Upgrade - Electrical Detail Sheet 2 of 2

	<b>Chestnut Drive at Rotary Drive</b>		
	Division 07	Guilford County	
PREPARED BY: AM Encarnacion	REVIEWED BY: LM Moon	PREPARED BY: MB Toth	REVIEWED BY:
REVISIONS	INIT.	DATE	DATE
Department of Transportation 211 S. Hamilton Street High Point, NC 27260			DocuSigned by: 6/5/2015 DATE SIG. INVENTORY NO. HP0317

05-JUN-2015 15:53  
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