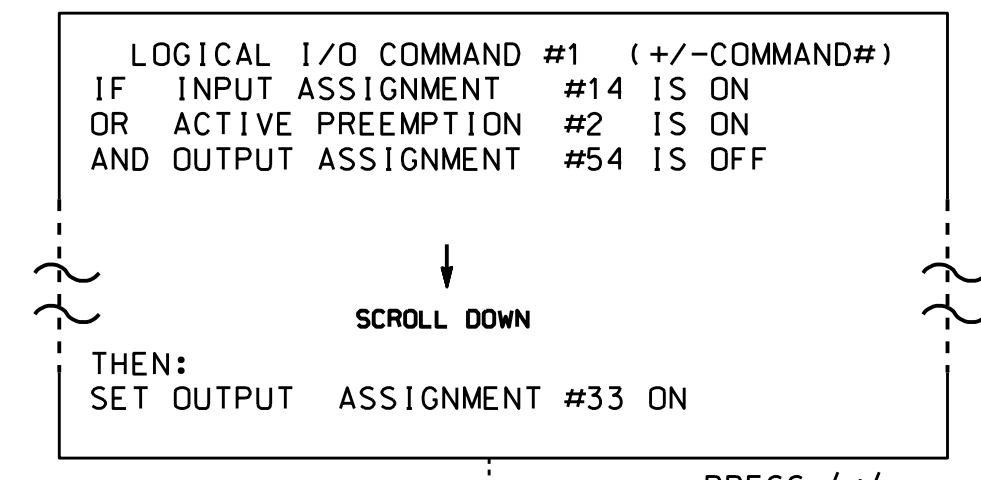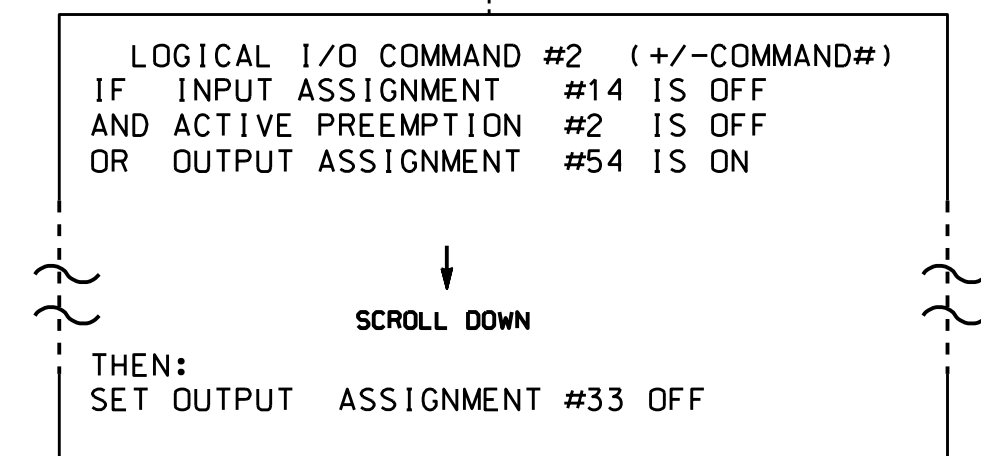# LOGICAL I/O PROCESSOR PROGRAMMING DETAIL
FOR FIRE HOUSE LAMP CONTROL
(program controller as shown below)

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 and 2.

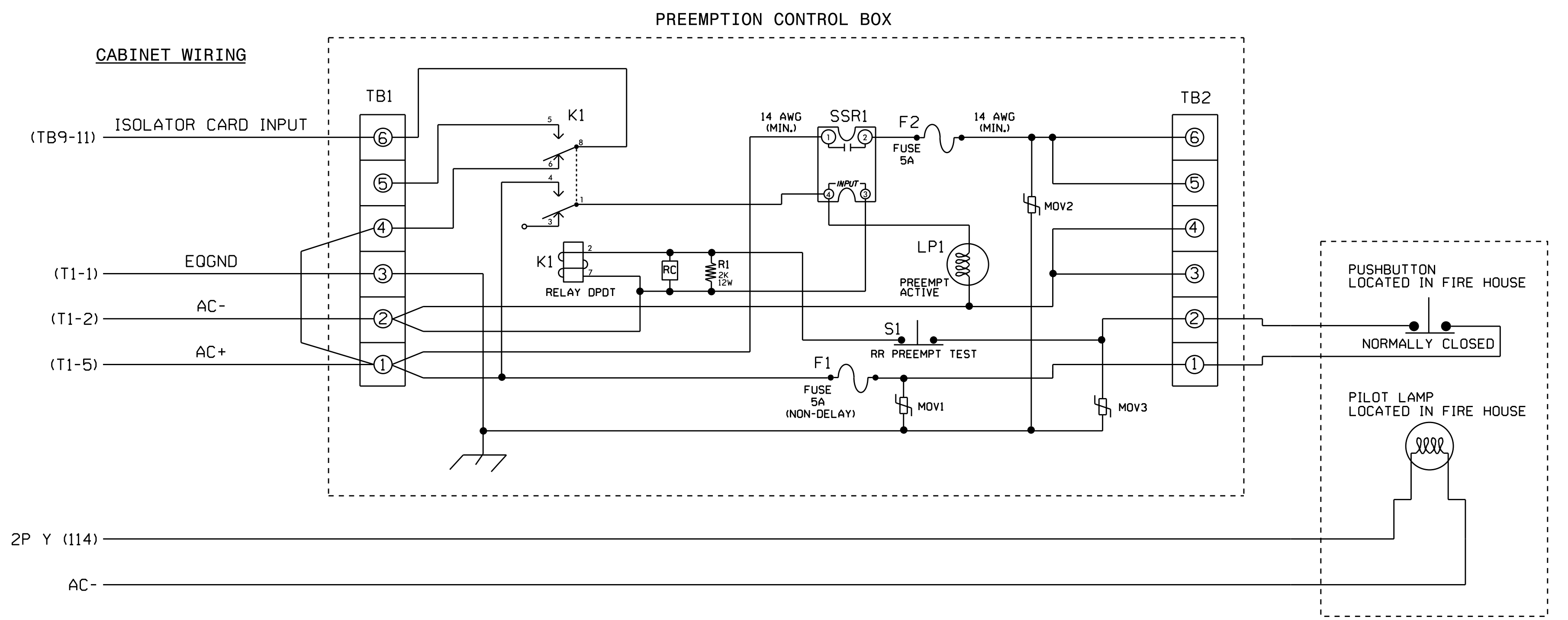2. From Main Menu press '6' (Outputs), then '3' (Logical I/O Processor).

```
LOGICAL I/O COMMAND #1  (+/-COMMAND#)      NOTE: FIRE HOUSE
IF  INPUT ASSIGNMENT  #14 IS ON                  PILOT LAMP
OR  ACTIVE PREEMPTION  #2 IS ON                  LOGIC (ON).
AND OUTPUT ASSIGNMENT #54 IS OFF
```
SCROLL DOWN
```
THEN:
SET OUTPUT  ASSIGNMENT #33 ON
```
PRESS '+'
```
LOGICAL I/O COMMAND #2  (+/-COMMAND#)      NOTE: FIRE HOUSE
IF  INPUT ASSIGNMENT  #14 IS OFF                 PILOT LAMP
AND ACTIVE PREEMPTION  #2 IS OFF                 LOGIC (OFF).
OR  OUTPUT ASSIGNMENT #54 IS ON
```
SCROLL DOWN
```
THEN:
SET OUTPUT  ASSIGNMENT #33 OFF
```
LOGIC I/O PROCESSOR PROGRAMMING COMPLETE

OUTPUT REFERENCE SCHEDULE
```
OUTPUT 54 = Controller Flash
OUTPUT 33 = Phase 2 PED Yellow
INPUT  14 = Preempt 2 Input
```

PREEMPT 2 AC ISOLATOR (MODEL 252) OUTPUT PROGRAMMING DETAIL
(set DIP switches as shown below)

```
PDC MODEL 252 AC ISOLATOR CARD
(COMPONENT SIDE)

                ON →
       1 NORM  [  ]  1
       1 INV   [  ]  2
       2 NORM  [  ]  3
       2 INV   [  ]  4

   ■ DENOTES POSITION
     OF SWITCH

SETTING = INVERTED OUTPUT ON CHANNEL 2.

252 AC ISOLATOR TO BE INSTALLED IN
SLOT J-14 OF INPUT FILE.
```
NOTE: IF ANOTHER MANUFACTURER TYPE OF AC ISOLATOR IS USED, OUTPUT PROGRAMMING IS LIKELY NOT TO EQUATE TO THAT SHOWN ABOVE.

EMERGENCY VEH. PREEMPTION PUSHBUTTON AND INDICATOR LAMP WIRING DETAIL
USING PREEMPT CONTROL BOX

PREEMPTION CONTROL BOX

CABINET WIRING

EMERGENCY VEHICLE PREEMPTION PROGRAMMING DETAIL
(program controller as shown below)

From Main Menu press 'A' (Preemption), then '1' (Standard Preemptions). Press 'NEXT' to advance to Preemption #2.
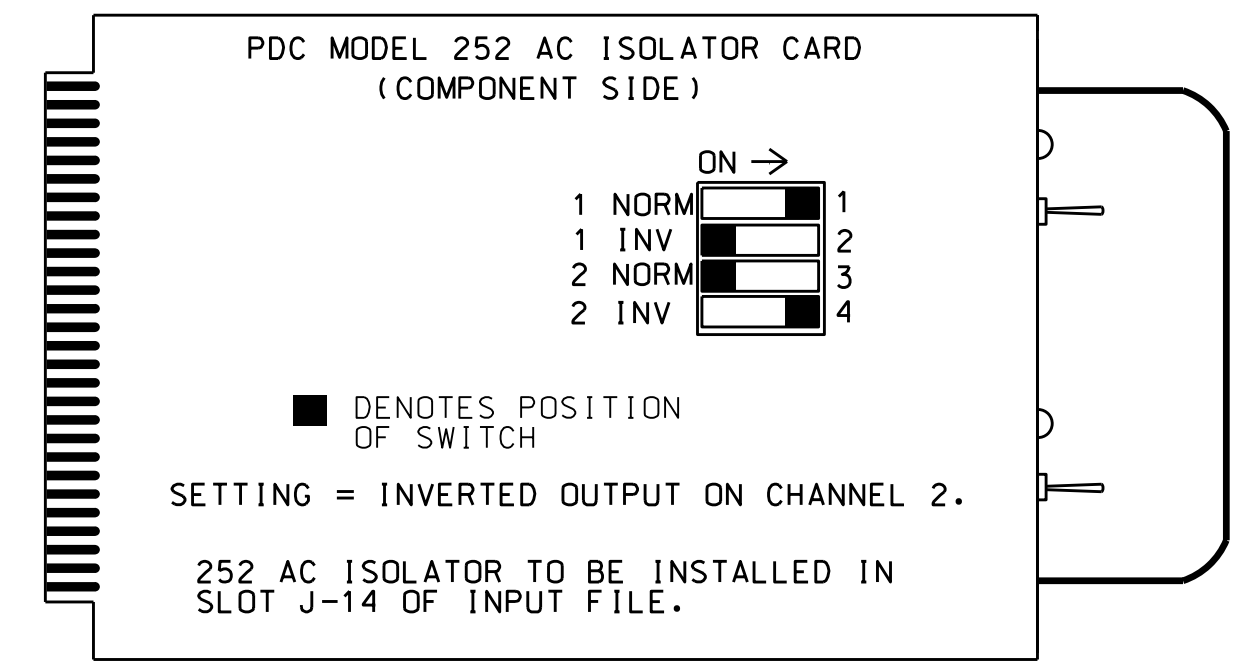
```
PREEMPTION #2  SETTINGS (NEXT:1-10)
INTERVAL/TIMING : CLEAR/DWELL PHASES
  GRN YEL RED   :123456789101112131415 16
1 255 0.0 0.0  |X    X
2  0  0.0 0.0  |
3  0  0.0 0.0  |
4  0  0.0 0.0  |
5  1  0.0 0.0  | X   X
EXIT CALLS

           OPTIONS
PRIORITY (Y/N TO SELECT) ...........MED
DELAY TIMER (0-255 SEC) ............*
MIN GREEN BEFORE PRE (0= DEFAULT)...1
PED CLEAR BEFORE PRE (0= DEFAULT)...0
YELLOW CLEAR BEFORE PRE (0= DEFAULT)..0.0
RED CLEAR BEFORE PRE (0= DEFAULT)...0.0
DWELL MIN TIMER (0-255 SEC) ........*
DWELL MAX TIMER (0=OFF,1-255MIN) ...2
DWELL HOLD-OVER TIMER (0-255) ......0
LATCH CALL? .......................Y
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? ...........Y
OVERLAPS:              ABCDEFGHIJKLMNOP
DWELL INT FLASH YELLOW
OMIT OVERLAPS:
```
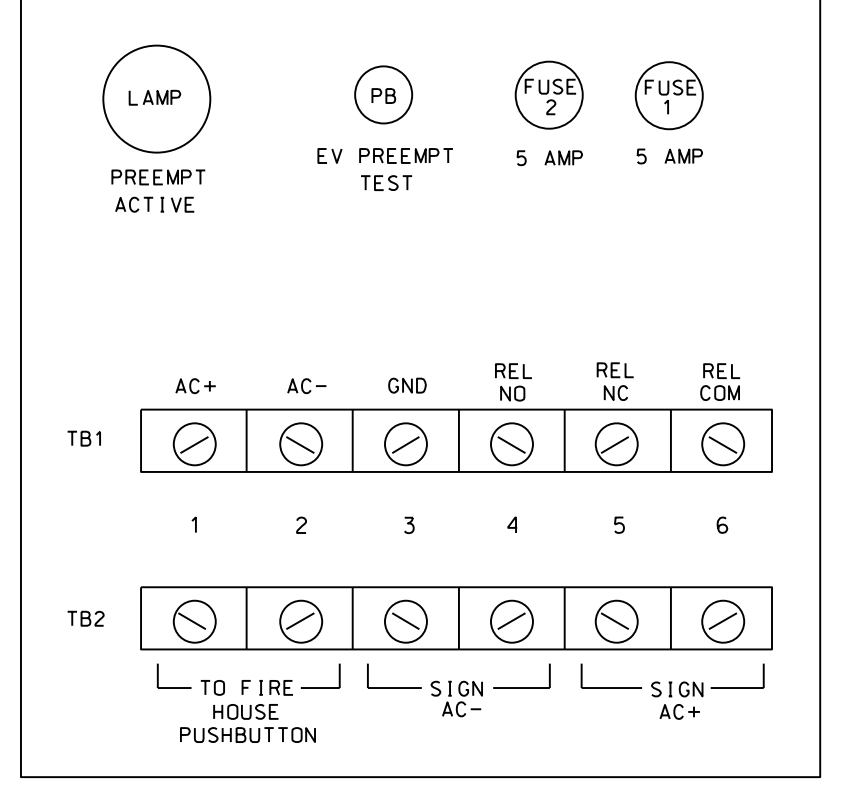* Denotes timing to be determined in field.

NOTES

1. Relay K1 is shown in the energized (Preempt not active) normal operation state.

2. Relay K1 is a DPDT with 120VAC coil with octal base.

3. Relay SSR1 is a SPST (normally open) Solid State Relay with AC input and AC (25 amp) output.

4. AC Isolator Card shall activate preemption upon removal of AC+ from the input (as shown above). To accomplish this set invert dip switch on AC Isolator Card.

5. IMPORTANT!! Terminal TB9-12 (on input panel) shall be connected to AC neutral (jumper may have to be added).

FRONT VIEW

PREEMPTION CONTROL BOX

Electrical Detail - Sheet 3 of 3