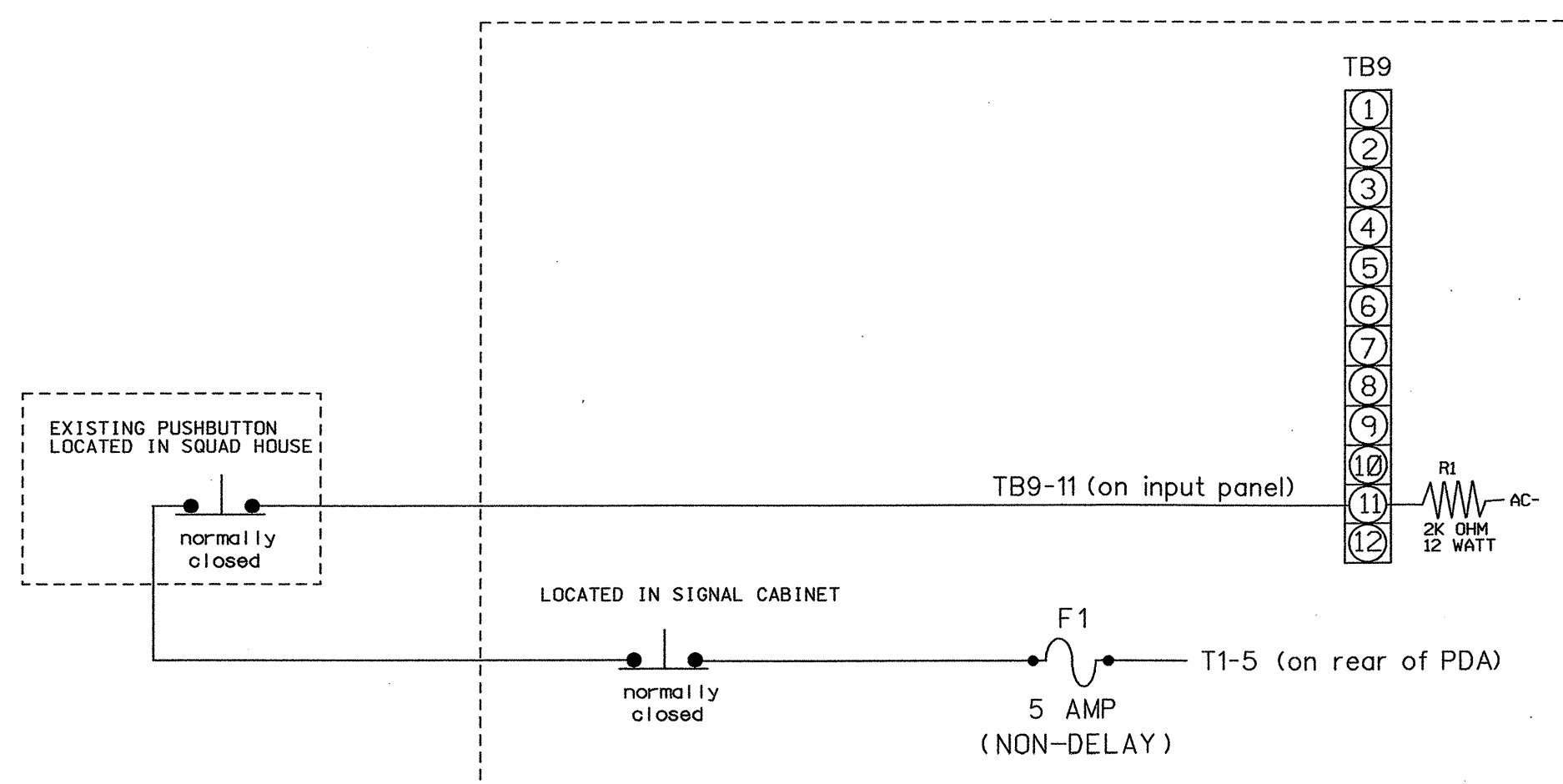


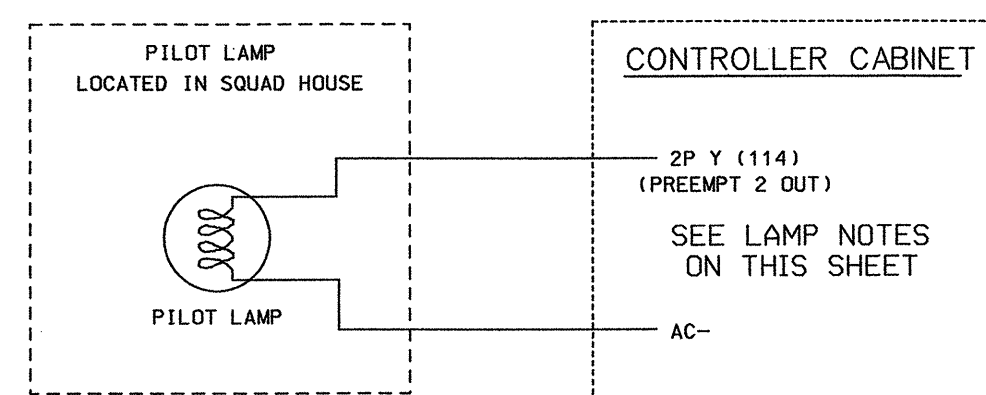
**EMERGENCY VEH. PREEMPTION PUSHBUTTON AND INDICATOR LAMP WIRING DETAIL**

(wire push-button and lamp as shown below)



**IMPORTANT!**

MAKE SURE AC ISOLATOR INSERTED IN J14L IS SET FOR INVERTED INPUT.



**LAMP NOTES**

IN ORDER FOR PILOT LAMP IN RESCUE SQUAD HOUSE TO FUNCTION, MAKE THE FOLLOWING PROGRAMMING CHANGES TO OUTPUT NO. 33.

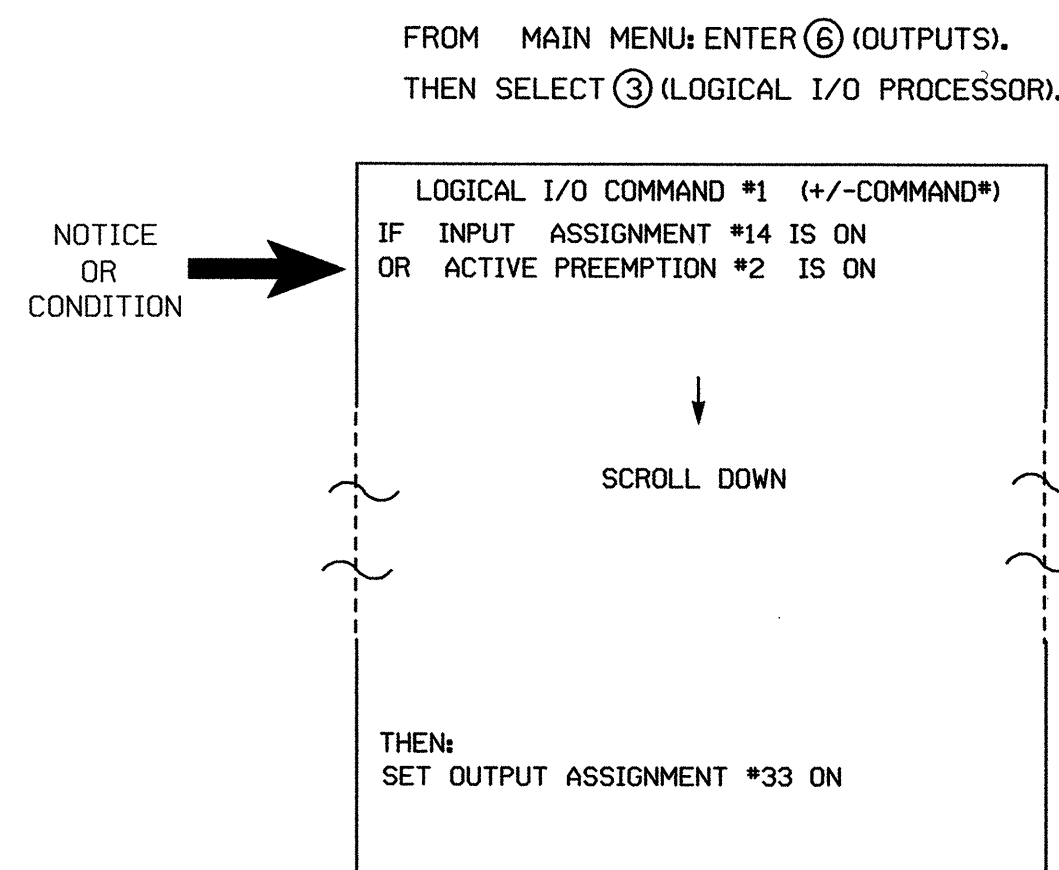
1. CHANGE THE FUNCTION OF C1 PIN 35 TO BE AN OUTPUT FOR PREEMPT 2. THIS IS ACCOMPLISHED BY THE FOLLOWING:
  - A) FROM MAIN MENU SELECT 6 (OUTPUTS). THEN SELECT 1 (OUTPUT ASSIGNMENTS).
  - B) SCROLL TO C1 PIN 35, OUTPUT NO. 33. YOU WILL SEE THAT IT IS NOT ENABLED.
  - C) SCROLL DOWN TO PREEMPT AND INPUT "YES". YOU WILL THEN BE ASKED FOR A PREEMPT NO. ENTER A "2" HERE.
  - D) THE OUTPUT IS NOW ASSIGNED FOR PRE-2 OUTPUT.
2. IF TERMINAL 114 HAS A CONFLICT MONITOR WIRE CONNECTED, REMOVE, TAPE AND LABEL WIRE.
3. MAKE SURE LOAD RESISTORS ARE IN PLACE AS SHOWN IN LOAD RESISTOR INSTALLATION DETAIL ON PAGE 1.
4. INSERT LOADSWITCH FOR S2P.

**PROGRAMING LOGICAL I/O PROCESSOR DETAIL**

**NOTE**

WHEN PREEMPT DELAY TIMER IS IN USE STEP 1 SHOWN BELOW IS NECESSARY TO ENSURE PILOT LAMP IN RESCUE SQUAD HOUSE WILL ACTIVATE IMMEDIATELY AFTER PUSH BUTTON IS DEPRESSED :

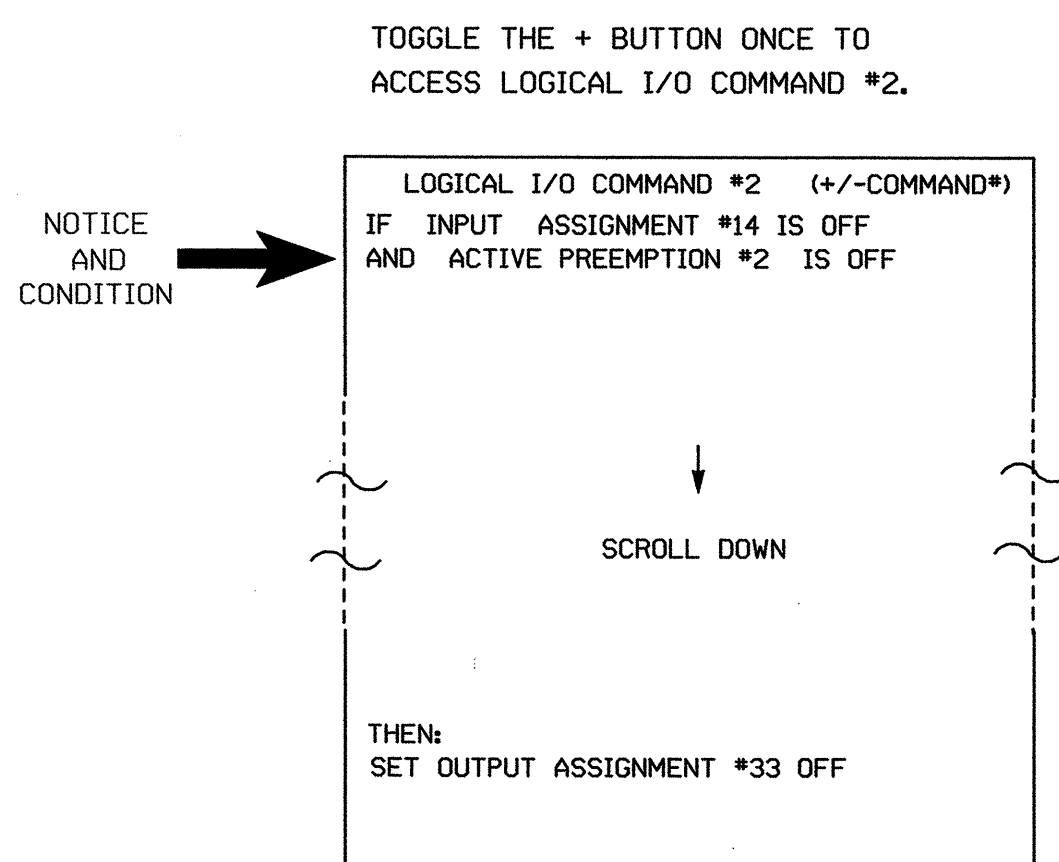
**STEP 1**



**STEP 2**

**NOTE**

IN ORDER FOR PILOT LAMP IN SQUAD HOUSE TO DEACTIVATE IMMEDIATELY AFTER ENDING PREEMPTION, PROGRAM THE FOLLOWING:



**STEP 3**

FROM MAIN MENU PRESS '2' (PHASE CONTROL), THEN '1' (PHASE CONTROL FUNCTIONS). SCROLL TO THE BOTTOM OF THE MENU AND ENABLE LOGICAL PROCESSOR (ACT LOGIC 1-16) BY FLAGGING #1 AND #2.

END OF PROGRAM.

**EMERGENCY VEHICLE PREEMPTION PROGRAMMING DETAIL**

(program controller as shown below)

FROM MAIN MENU PRESS 'A' (PREEMPTION), THEN '1' (STANDARD PREEMPTIONS). PRESS THE "NEXT" KEY TO ADVANCE TO PREEMPT 2.

PREEMPTION #1	INTERVAL/TIMING	GRN	YEL	RED	SETTINGS (NEXT:1-10)	CLEAR/DWELL PHASES
1	255 4.0 3.0				X	12345678910111213141516
2	0 0.0 0.0					
3	0 0.0 0.0					
4	0 0.0 0.0					
5	1 0.0 0.0					

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)...4.7  
 RED CLEAR BEFORE PRE (0= DEFAULT)...3.0  
 DWELL MIN TIMER (0-255 SEC) .....\*  
 DWELL MAX TIMER (0=OFF,1-255MIN) ....0  
 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? .....Y  
 REST IN RED DURING DWELL INTERVAL? ..N  
 FLASH DWELL INTERVAL? .....N  
 ALLOW PEDS IN DWELL INTERVAL? .....N  
 RE-TIME DWELL INTERVAL? .....Y  
 OVERLAPS: ..... ABCDEFGHIJKLMNPD  
 DWELL INT FLASH YELLOW  
 OMIT OVERLAPS:

\* DENOTES TIMING TO BE DETERMINED IN FIELD.

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 03-0884  
 DESIGNED: SEPTEMBER 2003  
 SEALED: 1/7/2004  
 REVISED: TBD

**SEPI ENGINEERING GROUP**  
 2300 Rexwoods Drive  
 Suite 370  
 Raleigh, NC 27607  
 Tel:919-789-9977 Fax:789-9591

SIGNAL UPGRADE FINAL DESIGN PAGE 2 OF 2

ELECTRICAL AND PROGRAMMING DETAILS FOR: SR 1409 (MILITARY CUTOFF ROAD) AT SR 2048 (GORDON ROAD) AND (OGDEN RESCUE SQUAD)

Prepared for the Offices of:  
 Traffic Engineering and Safety Systems Group  
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 Signal Management Section  
 122 N. McDowell St., Raleigh, NC 27603

SEAL  
 NORTH CAROLINA PROFESSIONAL ENGINEER  
 SEAL 07438  
 JAMES O. DEATON

DIVISION 03 NEW HANOVER COUNTY WILMINGTON  
 PLAN DATE: NOVEMBER 2003 REVIEWED BY: J O DEATON  
 PREPARED BY: M W YALCH REVIEWED BY:  
 REVISIONS INIT. DATE

Signature: James O. Deaton 1/14/04  
 DATE: 1/14/04  
 SIG. INVENTORY NO. 03-0884