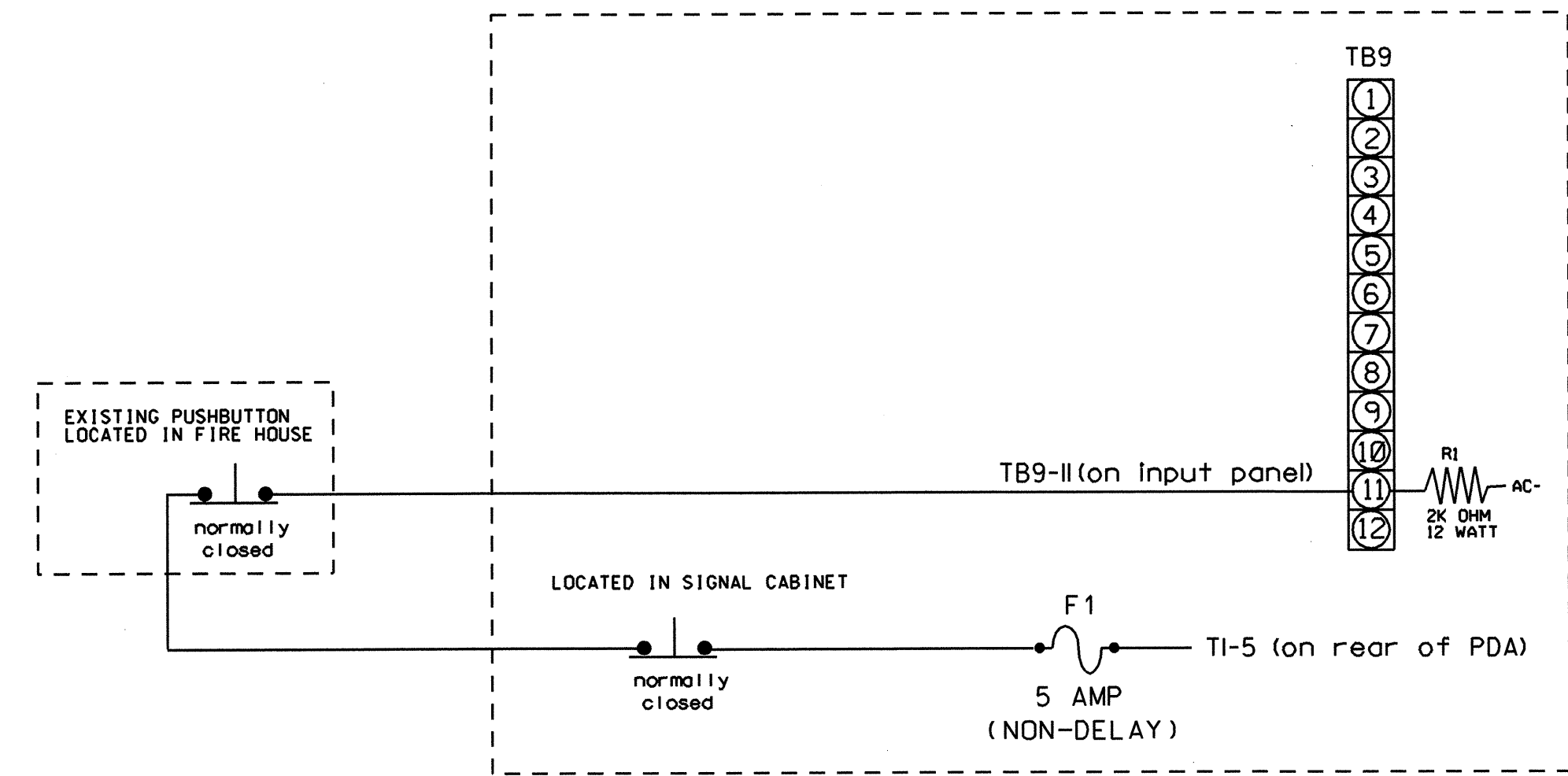


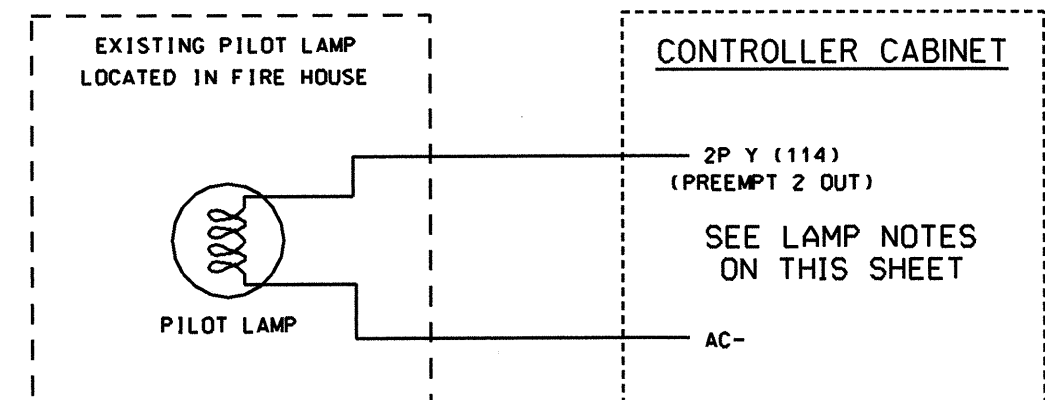
EMERGENCY VEH. PREEMPTION PUSHBUTTON AND INDICATOR LAMP WIRING DETAIL

(wire push-button and lamp as shown below)



IMPORTANT!

MAKE SURE AC ISOLATOR INSERTED IN J14 IS SET FOR INVERTED INPUT.

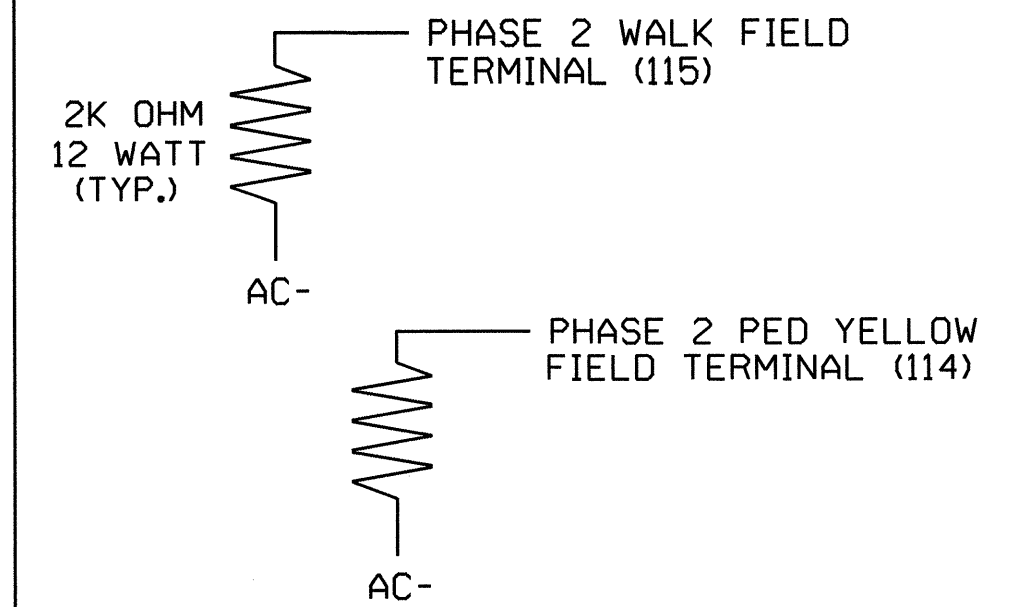


LAMP NOTES

IN ORDER FOR PILOT LAMP IN FIRE 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.
4. INSERT LOADSWITCH FOR S2P.

LOAD RESISTOR INSTALLATION DETAIL



PROGRAMING LOGICAL I/O PROCESSOR DETAIL

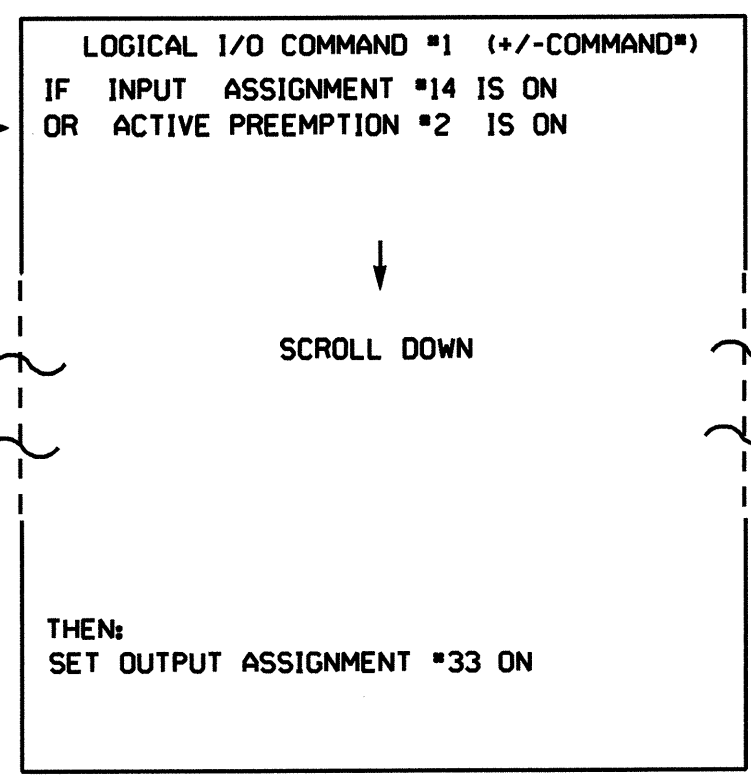
NOTE

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

STEP 1

FROM MAIN MENU; ENTER 6 (OUTPUTS), THEN SELECT 3 (LOGICAL I/O PROCESSOR).

NOTICE OR CONDITION



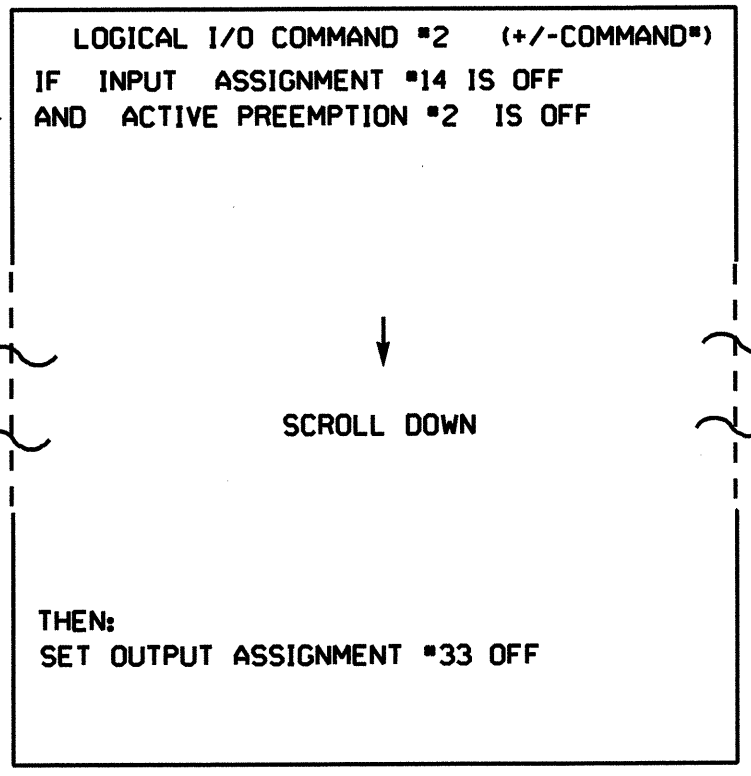
STEP 2

NOTE

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

TOGGLE THE + BUTTON ONCE TO ACCESS LOGICAL I/O COMMAND #2.

NOTICE AND CONDITION



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.

PLANS PREPARED BY : RUMMEL KLEPPER & KAHL, LLP consulting engineers 5800 FARINGDON PLACE SUITE 105 RALEIGH, NORTH CAROLINA 27609-3960 FOR DIVISION OF HIGHWAYS

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 #2	INTERVAL/TIMING	SETTINGS (NEXT:1-10)	CLEAR/DWELL PHASES
1	255 0.0 0.0		12345678910111213141516
2	0 0.0 0.0		X
3	0 0.0 0.0		
4	0 0.0 0.0		
5	0 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)...	12
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? ...	Y
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:	ABCDEFGHIJKLMNOP
DWELL INT FLASH YELLOW	
OMIT OVERLAPS:	

* DENOTES TIMING TO BE DETERMINED IN FIELD.

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 13-0284 DESIGNED: 02/15/2003 SEALED: 02/26/2004 REVISED: TBD

SIGNAL UPGRADE - FINAL PAGE 2 OF 2

ELECTRICAL AND PROGRAMMING DETAILS FOR: US 25 (HENDERSONVILLE ROAD) AT NC 146 (LONG SHOALS ROAD)

Prepared for the Offices of: NORTH CAROLINA PROFESSIONAL SEAL 07438 ENGINEER JAMES O. DEATON

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122 N. McDowell St., Raleigh, NC 27603

Division 13 BUNCOMBE COUNTY ASHEVILLE
 PLAN DATE: JULY 2003 REVIEWED BY: J O DEATON
 PREPARED BY: M W YALCH REVIEWED BY:
 REVISIONS INIT. DATE

122 N. McDowell St., Raleigh, NC 27603

SIG. INVENTORY NO. 13-0284