### LOGIC PROCESSOR PROGRAMMING

Front Panel

Main Menu >Controller >More >User Programs >Definition

Web Interface

Home >Controller >User Programs Configuration >User Programs Definition

Modify Program 1 as shown below and save changes.

#### Program 1

Statement	Result	Index	Operation	Parameter A	Index	Parameter B	Index	Delay	Ext
21	Phase Phase Omit	4	Result=!A	Preempt Status	2	None	0	0.0	0:0
22	Global Variable	33	Result=(A OR B)	Preempt Input	2	Preempt Status	2	0.0	0.0

### LOGIC STATEMENT DESCRIPTION

Statement 21 Description: Omits phase 4 while not in preemption.

Statement 22 Description: Turns pilot lamp on when button is pushed.

# OPERATIONAL NOTES

- 1. In order for the controller to perform the Emergency Vehicle Hybrid Beacon (HAWK signal) sequence, the 332\_NCDOT\_HAWK\_Default databasae must be installed on the controller.
- 2. The Logic Processor flashes Phase 2 Yellow during the Phase 2 Pre-Clearance interval.

  Phase 2 Yellow drives the solid yellow signal face during the Phase 2 vehicle Yellow Change.
- 3. The Phase 2 and Phase 6 Red outputs drive the solid Red displays during the Phase 2 and 6 Red Clear. The Logic Processor flashes Phase 2 and 6 Red Outputs in a wig-wag pattern during Phase 4 Ped Clear interval.
- 4. The controller must be programmed for Ped Clear During Red for Pedestrian Phase 4 so that the Red displays continue to flash during Phases 4 Yellow Change and Red Clear.
- 5. Make sure all Phase 2 and Phase 6 timings match each other.

## OUTPUT POINTS PROGRAMMING

Front Panel

Main Menu >Controller >More >Advanced IO>Output Points

Web Interface

Home >Controller >Advanced IO>Cabinet Configuration>Output Points

Modify IO Module 1 as shown below and save changes.

IO Module 1

Output Point Description		Output Control Type	Index	
33	C1-35	Global Variable	33	

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 14-1304
DESIGNED: October 2023
SEALED: 4/1/2024
REVISED: NA



FAX (828) 254-4562

## PREEMPTION PROGRAMMING

#### Front Panel

Main Menu >Controller >Preemption >Preempt Phasing/Preempt Parameters

#### Web Interface

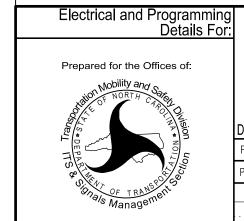
Home >Controller >Preempt Configuration >Preempts

### **Preempt Configuration**

Preempt	2		
Enabled	Enabled		
Type	Emergency Ve		
Track Phases	·		
Track Overlaps	·		
Dwell Phases	4		
Dwell Peds	4		
Dwell Overlaps	·		
Cycling Phases			
Cycling Overlaps	·		
Exit Phases	2		
Exit Overlaps			
Delay	*		
Max Presence	120		
Max Pres Act	Terminate		
Enter Min Green	1		
Enter Walk	255		
Enter Ped Clear	255		
Enter Yellow Change	25.5		
Enter Red Clear	25.5		
Track Green	0		
Track Yellow Chane	25.5		
Track Red Clear	25.5		
Dwell Green	0		
Exit Min Green	255		
Exit Yellow Change	25.5		
Exit Red Clear	25.5		
Dwell Ext Time	0.0		
Exit Type	Exit Phases		
Not Ovrd Flash	Х		
Not Ovrd Nxt Pre			
Track Clear Ovrd	Х		
Ped Clear During Yellow	·		
Require All Red Entry			

\* The Division Traffic Engineer will determine the Delay before Preempt time.

Electrical Detail - Sheet 2 of 3



## US 64 (Brevard Road) at Valley Hill Fire & Rescue

Division 14 Henderson County Laurel Park
PLAN DATE: October 2023 REVIEWED BY: JB Voso
PREPARED BY: KG Eudy REVIEWED BY:
REVISIONS INIT. DATE

SEAL
022599

Docusioned by:

B
James Vobbililing

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I:\*3572 US 64 Widening (U-5783)\*06 U-5783\*Traffic\*Signals\*Design\*Signal: jbvoso