

### 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=JA	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.

### 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 Veh
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	X
Not Ovrd Nxt Pre	
Track Clear Ovrd	X
Ped Clear During Yellow	
Require All Red Entry	

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

### OPERATIONAL NOTES

- In order for the controller to perform the Emergency Vehicle Hybrid Beacon (HAWK signal) sequence, the 332\_NCDOT\_HAWK\_Default databases must be installed on the controller.
- 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.
- 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.
- 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.
- 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



Electrical Detail - Sheet 2 of 3

Electrical and Programming Details For:  Prepared for the Offices of:  750 N. Greenfield Pkwy, Garner, NC 27529	<b>US 64 (Brevard Road) at Valley Hill Fire &amp; Rescue</b>		DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED  SEAL  ENGINEER JAMES B. VOSO 4/1/2024
	Division 14 PLAN DATE: October 2023 PREPARED BY: KG Eudy REVISIONS	Henderson County REVIEWED BY: JB Voso REVIEWED BY:	