I/O LOGIC PROGRAMMING DETAIL FOR
VEHICLE LOOP 4A TO CALL TWO PHASES

This logic will allow loop 4A to call
vehicle phase 7 when Preempt 1 is active.

(program controller as shown below)

FROM MAIN MENU, KEYSTROKES 1-8

```
                Channel & I/O
1.Chan  1-16   4.Chan+  1-16  [7.IO Logic]
2.chan 17-24   5.chan+ 17-24   8.IO Viewer
3.Chan Parms   6.IO Parms      9.IO UserMap
```

```
Result Src.Fcn Op  Src.Fcn Op  Src.Fcn  >
I 21  = OI  8  &   OI198       OI  0
I  0  = OI  0      OI  0       OI  0
I  0  = OI  0      OI  0       OI  0
I  0  = OI  0      OI  0       OI  0
I  0  = OI  0      OI  0       OI  0
I  0  = OI  0      OI  0       OI  0
I  0  = OI  0      OI  0       OI  0
```

I/O REFERENCE SCHEDULE

```
INPUT FUNCTION 8   = Vehicle 4 Call
INPUT FUNCTION 21  = Vehicle 7 Call
INPUT FUNCTION 198 = Preempt 1 In
```

FLASHER CIRCUIT MODIFICATION DETAIL

IN ORDER TO INSURE THAT SIGNALS FLASH CONCURRENTLY ON THE
SAME APPROACH, MAKE THE FOLLOWING FLASHER CIRCUIT CHANGES:

1. ON REAR OF PDA – REMOVE WIRE FROM TERM. T2-4 AND TERMINATE ON T2-2.

2. ON REAR OF PDA – REMOVE WIRE FROM TERM. T2-5 AND TERMINATE ON T2-3.

3. REMOVE FLASHER UNIT 2.

THE CHANGES LISTED ABOVE TIES ALL PHASES AND OVERLAPS TO FLASHER UNIT 1.

STARTUP PHASES PROGRAMMING DETAIL

(program controller as shown below)

This signal omits phases 3 and 7 during normal operation and serves them
only during preemption. In order to make sure phases 3 and 7 are not served
during normal phasing, the controller startup phases must be specified by
the user. This is accomplished as shown in the programming steps below.

STEP 1

From the Main Menu, keystrokes 1-2-1 (Unit Parameters). Press the
down arrow key until the "StartupCalls" is displayed on the left of
the display. Change the value to "UsePrg" and press the "ent" key.
The controller is now ready for the user to specify exactly which
phases should be called for service at startup (see Step 2).

STEP 2

From the Main Menu, keystrokes 1-1-3 (Phase Options+). Press the
down arrow key until "StartupVehCall" and "StartupPedCall" are
displayed on the left of the display. Select phases 2, 4, 6, and 8
for "StartupVehCall" and "StartupPedCall". The controller will now
serve these vehicle and ped phases exclusively at startup.

PHASE 4 INHIBIT PROGRAMMING DETAIL

(program controller as shown below)

This programming prevents the controller from serving
phase 4 and 7 simultaneously in the event preemption
ends while phase 7 is being served.

From Main Menu press '1' (Controller), then '1' (Phases),
then '5' (Call. Inh. Redirect).

```
                  Inhibit Ps 1111111      >
P   ..Call.Ps..   12345678 90123456
1   0   0   0  0  ........ ........
2   0   0   0  0  ........ ........
3   0   0   0  0  ........ ........
4   0   0   0  0  ........ ........
5   0   0   0  0  ........ ........
6   0   0   0  0  ........ ........
7   0   0   0  0  ...X..... ........
8   0   0   0  0  ........ ........
```

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 07-0424
DESIGNED: November 2023
SEALED: 1/17/2024
REVISED: N/A

Electrical Detail - Sheet 5 of 5

ELECTRICAL AND PROGRAMMING
DETAILS FOR:

Prepared In the Offices of:

Mobility and Safety Division
Transportation of North Carolina Division
Signals Management Section

750 N.Greenfield Pkwy,Garner,NC 27529

SR 3163 (E. Market Street)
at
Sykes Ave. & Lowdermilk Street

Division 7	Guilford County	Greensboro
PLAN DATE: January 2024	REVIEWED BY:	
PREPARED BY: James Peterson	REVIEWED BY:	

REVISIONS	INIT.	DATE

SIG. INVENTORY NO.   07-0424

DocuSigned by:
Ryan W. Hough
01/19/2024
DATE