PROGRAMMING DETAILS TO CALL ALTERNATE PHASING

To run the Alternate phasing, schedule a Day Plan that calls an Action that is programmed to enable Phase Function 1.

Actions can be programmed to run free run or call a coordination pattern.

PHASE FUNCTION MAPPING PROGRAMMING DETAIL

(program controller as shown below)

Step 1 - Assign OVERLAP A OMIT and OVERLAP C OMIT to Phase Function 1.

1. From Main Menu select `6-TIME BASE DATA`
2. From TIME BASE DATA Submenu select `9-PHS FUNC MAPPING`

Use Up/Dn Keys to position cursor on NUM 1

```
TIME BASE PHS FUNC MAPING
                PHS FUNC SEL(0-OFF/1-ON)
 NUM..P-FUNCT NAME.....123456789 0123456
   1  PHS-01 MAX # 2   000000000 0000000
   2  PHS-02 MAX # 2   000000000 0000000
   3  PHS-03 MAX # 2   000000000 0000000
   4  PHS-04 MAX # 2   000000000 0000000
 UP/DOWN TO SCROLL                E-EDIT
```

BEFORE PROCEEDING, SCROLL THRU ENTIRE RANGE OF FUNCTIONS TO ENSURE ALL P-FUNCT 1 NUM x VALUES ARE SET TO '0' (OFF)

Use Up/Dn/Left/Right keys to position cursor on NUM 145 and program P-FUNCT 1 as shown.

```
TIME BASE PHS FUNC MAPPING
                PHS FUNC SEL(0-OFF/1-ON)
 NUM..P-FUNCT NAME.....123456789 0123456
 145  OVERLAP A OMIT   100000000 0000000   ←
 146  OVERLAP B OMIT   000000000 0000000
 147  OVERLAP C OMIT   100000000 0000000   ←
 148  OVERLAP D OMIT   000000000 0000000
 UP/DOWN TO SCROLL                E-EDIT
```

SET P-FUNCT 1 VALUE TO '1' (ON) AS SHOWN FOR OVERLAP A OMIT & OVERLAP C OMIT

PHASE FUNCTION PROGRAMMING COMPLETE

TIME BASE ACTIONS PROGRAMMING

(program controller as shown below)

Step 2 - Set up an Action to run Phase Function 1.

1. From Main Menu select `6-TIME BASE DATA`
2. From TIME BASE DATA Submenu select `5-ACTIONS`

```
TIME BASE ACTION # 001
                      123456789 0123456
  PATN:001      PHS:  100000000 0000000   ← NOTICE PHASE 1
   0=I'CONN     AUX:  000-----
   1-253=PATN   SPC:  0000000-       0=NO
   254=FREE     DIM:  0-------       1=YES
   255=FLASH    DET:  000-----
 UP/DOWN TO SCROLL                E-EDIT
```

SPECIAL FUNCTION PROGRAMMING COMPLETE

Time Base Schedule Programming and Time Base Day Plan Programming (steps 3 and 4) are used to run Alternate Phasing at all times during TMP Phases III & IV.

TIME BASE SCHEDULE PROGRAMMING

(program controller as shown below)

Step 3 - Edit TIME BASE SCHEDULE #001 to be active all days of the week.

1. From Main Menu select `6-TIME BASE DATA`
2. From TIME BASE DATA Submenu select `3-SCHEDULE`

```
TIME BASE SCHEDULE # 001
        SMTWTFS         JFMAMJJASOND
    DAY:1111111   MONTH:111111111111      ← NOTICE ALL DAYS SET TO 1
     123456789 0123456789 0123456789 01
DATE:111111111 1111111111 1111111111 11
PLAN:001

 UP/DOWN TO SCROLL                E-EDIT
```

TIME BASE DAY PLAN PROGRAMMING

(program controller as shown below)

Step 4 - Edit TIME BASE DAY PLAN #001 to be active at all times.

1. From Main Menu select `6-TIME BASE DATA`
2. From TIME BASE DATA Submenu select `4-DAY PLAN`

```
TIME BASE DAY PLAN # 001
NO HH:MM ACT   NO HH:MM ACT   NO HH:MM ACT
01 00 00 001   06 00 00 000   11 00 00 000   ← NOTICE FIRST ACT SET TO 001
02 00 00 000   07 00 00 000   12 00 00 000
03 00 00 000   08 00 00 000   13 00 00 000
04 00 00 000   09 00 00 000   14 00 00 000
05 00 00 000   10 00 00 000   15 00 00 000
 UP/DOWN TO SCROLL                E-EDIT
```

! Ensure Time Base memory is cleared before programming the controller for the final design. To accomplish this, from the Main Menu, press 6-TIME BASE DATA, then 7-CLEAR MEMORY. Enter code "1" and press enter to delete SCHEDULE, then enter code "2" and press enter to delete DAY PLAN. !

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 05-1714T2
DESIGNED: February 2025
SEALED: 3/27/2025
REVISED: N/A

Electrical Detail - Temporary Design 2 (TMP Phases III & IV)
Sheet 3 of 3

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Electrical and Programming Details For:

US 401 (Fayetteville Road) at Annaron Court

Division 5 — Wake County — Raleigh

PLAN DATE: March 2025	REVIEWED BY:
PREPARED BY: Tim Langston	REVIEWED BY:

REVISIONS	INIT.	DATE

Prepared in the Offices of:
Transportation Mobility and Safety Division
ITS & Signals Management Section
State of North Carolina Department of Transportation
750 N. Greenfield Pkwy, Garner, NC 27529

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 031001 D. TODD JOYCE

DocuSigned by: D. Todd Joyce 03/28/2025
A90CADEDBD4241D...
DATE

SIG. INVENTORY NO. 05-1714T2