PROJECT REFERENCE NO.	SHEET NO.
U-5302	Sig. 20.3

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.

! Full-Time Alternate Phasing was used during the previous TMP phase. Before programming the controller's Time Base data, ensure Time Base memory is cleared. 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. !

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 # ***
                    123456789 0123456
  PATN:001      PHS: 100000000 0000000
   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
```

NOTICE PHASE 1

SPECIAL FUNCTION PROGRAMMING COMPLETE

*** Action #(s) are to be determined by the Division and/or City Traffic Engineer and are scheduled to run in Day Plan(s).

ADVANCE WALK PED PROGRAMMING DETAIL

(program controller as shown below)

1. From Main Menu select `3-PHASE DATA`
2. From PHASE DATA Submenu select `3-PEDESTRIAN DATA`
3. From PEDESTRIAN DATA Submenu select `3-PED OFFSET+`

```
PHASE......1...2...3...4...5...6...7...8
 WOFF/10   0  70   0  60   0  70   0  50
 MODE      0   0   0   0   0   0   0   0


CODES: * 0=ADVANCE 1=DELAY
```

ADVANCE WALK PED PROGRAMMING COMPLETE

ACCESSIBLE PEDESTRIAN SIGNAL (APS) INSTALLATION NOTES

1. Install push buttons and APS equipment per manufacturer's instructions.
2. Provide a dedicated cable to each push button per manufacturer's instructions.
3. If APS equipment is mounted in cabinet, use filtered power (i.e., Controller Receptacle) to power APS equipment. Do not use Equipment Receptacle, which is a GFCI outlet.
4. Never attempt to operate a standard contact closure push button with the APS system unless cabinet is re-wired for standard button operation or unless explicitly allowed by the manufacturer.
5. Place manufacturer's instructions in cabinet with cabinet prints, signal plans, and electrical details.
6. An APS push button station that is designed to work without the need for interfacing with a pedestrian signal head shall be installed for applications where a push button is installed in a median without a pedestrian signal head.
7. A push button with a single tactile arrow that points in both directions of travel shall be installed if the median separates two parallel crosswalks.

COUNTDOWN PEDESTRIAN SIGNAL OPERATION

Countdown Ped Signals are required to display timing only during Ped Clearance Interval. Consult Ped Signal Module user's manual for instructions on selecting this feature.

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

Electrical Detail - 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

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

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

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 031001 ENGINEER D. TODD JOYCE

DocuSigned by: D. Todd Joyce 05/28/2025
DATE

SIG. INVENTORY NO. 05-1714

27-MAY-2025 16:30
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