PROJECT REFERENCE NO.	SHEET NO.
W-5705I	Sig. 4

TOD EVENT SCHEDULING PROGRAMMING DETAIL TO CALL ALTERNATE PHASING OPERATION DURING COORDINATION

(program controller as shown below)

✱ DENOTES TO BE DETERMINED BY THE DIVISION TRAFFIC ENGINEER.

NOTES

1. Phase Functions can be called by Time of Day (TOD) in Traffic Events, but not during coordination.
2. Special Functions can be called by Time of Day using Aux Events, and can run in conjunction with Coordination.
3. Special Functions can be used to call a Phase Function. In doing this a Phase function can run while a Coordination pattern is running.
4. If Alternate Phasing is used during FREE-RUN, Phase Function 1 must be turned on with a Traffic Event.

PHASE FUNCTION MAPPING PROGRAMMING DETAIL

(program controller as shown below)

Step 1 - Assign "OVERLAP A OMIT" to Phase Function 1.

FROM MAIN MENU PRESS 6 (TIME BASE DATA)

```
EPAC TIME BASE DATA        PRESS # DESIRED

 1-VIEW CURRENT            6-EQUATE/TRANSFER
 2-SET TIME/DATE           7-CLEAR MEMORY
 3-TRAFFIC EVENTS          8-DIMMING
 4-AUX EVENTS              9-PHS FUNC MAPPING
 5-TOY EVENTS              0-SPC FUNC MAPPING
                                   F-PRIOR MENU
```

```
EPAC  TIME BASE PHS FUNC MAPPING
                 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   010000000 0000000
   3  PHS-03 MAX # 2   001000000 0000000
   4  PHS-04 MAX # 2   000100000 0000000
A-UP B-DN C-LT D-RT E-ENTER F-PRIOR MENU
```

← REMOVE PHASE FUNCTION NUM 1 DEFAULT VALUE

HIT "A" KEY UNTIL POSITIONED ON NUM 145

```
EPAC  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   000000000 0000000
 148  OVERLAP D OMIT   000000000 0000000
A-UP B-DN C-LT D-RT E-ENTER F-PRIOR MENU
```

← SET SWITCH 1 "ON' AS SHOWN FOR OVERLAP A OMIT

PHASE FUNCTION PROGRAMMING COMPLETE
PRESS 'F' TO RETURN TO TIME BASE DATA

SPECIAL FUNCTION MAPPING PROGRAMMING DETAIL

(program controller as shown below)

Step 2 - Assign Special Function 1 to call Phase Function 1.

FROM MAIN MENU PRESS 6 (TIME BASE DATA)

```
EPAC TIME BASE DATA        PRESS # DESIRED

 1-VIEW CURRENT            6-EQUATE/TRANSFER
 2-SET TIME/DATE           7-CLEAR MEMORY
 3-TRAFFIC EVENTS          8-DIMMING
 4-AUX EVENTS              9-PHS FUNC MAPPING
 5-TOY EVENTS              0-SPC FUNC MAPPING
                                   F-PRIOR MENU
```

```
EPAC TIME BASE SPC FUNC MAPPING
                              SPC FUNC
 S-FUNCTION NAME .........     12345678
   SPC 1-8 AS PHS FUNC 1- 8    10000000
   SPC 1-8 AS PHS FUNC 9-16    00000000
   SPEC FUNCTION 1             10000000
 CODES.......0-OFF....1-ON............
A-UP B-DN C-LT D-RT E-ENTER F-PRIOR MENU
```

← PHASE FUNCTION 1 WILL BE CALLED WHEN SPECIAL FUNCTION 1 IS SELECTED

SPECIAL FUNCTION PROGRAMMING COMPLETE
PRESS 'F' TO RETURN TO TIME BASE DATA

AUX EVENT PROGRAMMING TO CALL SPECIAL FUNCTION DURING COORDINATION

(program controller as shown below)

Step 3 - An Auxiliary event will be used to call the Special Function. This is done in Time Base Data under Aux Event. Add Auxiliary events as needed remembering to use one event to turn the Special Function on and one event to turn the Special Function off. If these are to be used in conjunction with the Traffic Events during Coordination then the On/Off times should be identical.

FROM MAIN MENU PRESS 6 (TIME BASE DATA)

```
EPAC TIME BASE DATA        PRESS # DESIRED

 1-VIEW CURRENT            6-EQUATE/TRANSFER
 2-SET TIME/DATE           7-CLEAR MEMORY
 3-TRAFFIC EVENTS          8-DIMMING
 4-AUX EVENTS              9-PHS FUNC MAPPING
 5-TOY EVENTS              0-SPC FUNC MAPPING
                                   F-PRIOR MENU
```

```
EPAC TIME BASE - AUXILIARY EVENTS
  DD  HH MM  A123  D123  DIM  S12345678
   ✱   ✱  ✱   000   000   0    10000000
   ✱   ✱  ✱   000   000   0    00000000
   ✱   ✱  ✱   000   000   0    00000000
CODES........0-OFF....1-ON.............
OVERWRITE ">" W/ 1-ADD  2-DELETE  3-EDIT
A-UP B-DN C-LT D-RT E-ENTER F-PRIOR MENU
```

Special Function (SF)

← SF 1 "ON"
← SF 1 "OFF"

AUX EVENT PROGRAMMING COMPLETE
PRESS 'F' TO RETURN TO TIME BASE DATA

! AUX EVENT MUST BE SCHEDULED TO RUN CONCURRENT WITH A TRAFFIC EVENT SCHEDULED COORDINATION PATTERN.

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 05-1974
DESIGNED: September 2017
SEALED: 10/27/2017
REVISED: N/A

Electrical Detail - Sheet 3 of 3

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ELECTRICAL AND PROGRAMMING DETAILS FOR:

SR 3109 (Brier Creek Parkway)
at
SR 1644 (Globe Road)

Prepared in the Offices of:
Traffic Engineering, Mobility and Safety Division
Signals Management Section
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
750 N.Greenfield Pkwy,Garner,NC 27529

Division 5 | Wake County | Raleigh

PLAN DATE: October 2017 | REVIEWED BY:
PREPARED BY: S. Armstrong | REVIEWED BY:

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 036880 ENGINEER KEITH M. MINS

DocuSigned by: Keith M. Mins 11/7/2017
2F8D7B5E8CDD4A6... DATE
SIG. INVENTORY NO. 05-1974

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