PROJECT REFERENCE NO.	SHEET NO.
W-5750Q	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 OMIT OVERLAP "A" AND "C" 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   100000000 0000000
 148  OVERLAP D OMIT   000000000 0000000
A-UP B-DN C-LT D-RT E-ENTER F-PRIOR MENU
```

← SET SWITCH 1 "ON" FOR OVERLAPS A & C

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

PROGRAM AUX EVENT TO CALL SPECIAL FUNCTION

(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: 05-0791
DESIGNED: October 2018
SEALED: 10-12-18
REVISED: N/A

Electrical Detail - Sheet 3 of 3

ELECTRICAL AND PROGRAMMING DETAILS FOR:

Prepared in the Offices of:

Transportation Mobility and Safety Division
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
ITS & Signals Management Section

750 N.Greenfield Pkwy,Garner,NC 27529

US 401 (Louisburg Road)
at
Fox Road
(Southern Intersection)

Division 5 Wake County Raleigh

PLAN DATE: October 2018 REVIEWED BY:
PREPARED BY: James Peterson REVIEWED BY:

REVISIONS	INIT.	DATE

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 036833 ENGINEER RYAN W. HOUGH

DocuSigned by: Ryan W. Hough
43D3D6AA3654C3
SIGNATURE 10/18/2018 DATE

SIG. INVENTORY NO. 05-0791

16-OCT-2018 08:02
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jtpeterson