Docusign Envelope ID: EFF8A1FE-DDBC-4645-B7E4-7BBB1FE0CB7F

EMERGENCY VEHICLE PREEMPTION PROGRAMMING DETAIL

(program controller as shown below)

SELECT 7-PREEMPT DATA FROM MAIN MENU

```
- PREEMPT 3 -

PREEMPTS

1-PREEMPT 1    5-PREEMPT 5    9-PREEMPT 9
2-PREEMPT 2    6-PREEMPT 6    A-PREEMPT 10
[3-PREEMPT 3]  7-PREEMPT 7    B-PREEMPT 11
4-PREEMPT 4    8-PREEMPT 8    C-PREEMPT 12

   O-OVERRIDES        D-DEFAULT DATA

PREEMPT 3

 [1-MISCELLANEOUS]     4-PEDEST. STATUS
  2-INTERVAL TIMES     5-OVERLAP STATUS
  3-VEHICLE STATUS

PREEMPT 3 MISC DATA                TEST:  0
DET:  250  DELAY:  0  MXCAL:120  DB/10: 0
NLOCK:  0  EXTND:  0  L OUT:  0  SRMOD: 0
LINK#:  0  DURAT:  0  GATE :  0  R2C  : 0
 PHASE....1.2.3.4.5.6.7.8.9.0.1.2.3.4.5.6
  EXIT    0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0
  CALLS   0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

 select F - return to Preempt 3 menu
 select 2 - Interval Times

PREEMPT 3 INTERVAL TIMES
 MIN GRN:  1  MIN WLK:  1  DWL GRN:   7
              EXT PED:  0
 --SELECT---  ---TRACK---  ---RETURN--
               GREEN :  0
 PED CLR: 27  PED CLR:  0  PED CLR:   0
 YEL/10 :  0  YEL/10 :  0  YEL/10 :   0
 RED/10 :  0  RED/10 :  0  RED/10 :   0

 select F - return to Preempt 3 menu
 select 3 - Vehicle Status

PREEMPT 3 VEHICLE STATUS
PHASE....1.2.3.4.5.6.7.8.9.0.1.2.3.4.5.6
 TRK GRN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 DWELL   0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0
 (O-RED,1-GRN,2-FLR,3-FLY,4-DARK,5-FLG)
 CYCLE   0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
    (O-NO..1-ACT..2-MIN REC..3-MX REC)

 select F - return to Preempt Data menu
 select 5 - Overlap Status

PREEMPT 3 OVERLAP STATUS
PHASE....A.B.C.D.E.F.G.H.I.J.K.L.M.N.O.P
 TRK GRN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 DWELL   0 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 CYCLE   0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
(O-R,1-G,2-FR,3-FY,4-DK,5-FG 0-NO.1-ACT)
 TRAIL   0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
```

end of programming

NOTE: Option 4 is not used.
Be sure values are set at default=0.

```
- PREEMPT 4 -

PREEMPTS

1-PREEMPT 1    5-PREEMPT 5    9-PREEMPT 9
2-PREEMPT 2    6-PREEMPT 6    A-PREEMPT 10
3-PREEMPT 3    7-PREEMPT 7    B-PREEMPT 11
[4-PREEMPT 4]  8-PREEMPT 8    C-PREEMPT 12

   O-OVERRIDES        D-DEFAULT DATA

PREEMPT 4

 [1-MISCELLANEOUS]     4-PEDEST. STATUS
  2-INTERVAL TIMES     5-OVERLAP STATUS
  3-VEHICLE STATUS

PREEMPT 4 MISC DATA                TEST:  0
DET:  251  DELAY:  0  MXCAL:120  DB/10: 0
NLOCK:  0  EXTND:  0  L OUT:  0  SRMOD: 0
LINK#:  0  DURAT:  0  GATE :  0  R2C  : 0
 PHASE....1.2.3.4.5.6.7.8.9.0.1.2.3.4.5.6
  EXIT    0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
  CALLS   0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

 select F - return to Preempt 4 menu
 select 2 - Interval Times

PREEMPT 4 INTERVAL TIMES
 MIN GRN:  1  MIN WLK:  1  DWL GRN:  10
              EXT PED:  0
 --SELECT---  ---TRACK---  ---RETURN--
               GREEN :  0
 PED CLR:  7  PED CLR:  0  PED CLR:   0
 YEL/10 :  0  YEL/10 :  0  YEL/10 :   0
 RED/10 :  0  RED/10 :  0  RED/10 :   0

 select F - return to Preempt 4 menu
 select 3 - Vehicle Status

PREEMPT 4 VEHICLE STATUS
PHASE....1.2.3.4.5.6.7.8.9.0.1.2.3.4.5.6
 TRK GRN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 DWELL   0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 (O-RED,1-GRN,2-FLR,3-FLY,4-DARK,5-FLG)
 CYCLE   0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
    (O-NO..1-ACT..2-MIN REC..3-MX REC)

 select F - return to Preempt Data menu
```

NOTE: Options 4 & 5 are not used.
Be sure values are set at default=0.

```
- PREEMPT 5 -

PREEMPTS

1-PREEMPT 1    [5-PREEMPT 5]  9-PREEMPT 9
2-PREEMPT 2    6-PREEMPT 6    A-PREEMPT 10
3-PREEMPT 3    7-PREEMPT 7    B-PREEMPT 11
4-PREEMPT 4    8-PREEMPT 8    C-PREEMPT 12

   O-OVERRIDES        D-DEFAULT DATA

PREEMPT 5

 [1-MISCELLANEOUS]     4-PEDEST. STATUS
  2-INTERVAL TIMES     5-OVERLAP STATUS
  3-VEHICLE STATUS

PREEMPT 5 MISC DATA                TEST:  0
DET:  252  DELAY:  0  MXCAL:120  DB/10: 0
NLOCK:  0  EXTND:  0  L OUT:  0  SRMOD: 0
LINK#:  0  DURAT:  0  GATE :  0  R2C  : 0
 PHASE....1.2.3.4.5.6.7.8.9.0.1.2.3.4.5.6
  EXIT    0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0
  CALLS   0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

 select F - return to Preempt 5 menu
 select 2 - Interval Times

PREEMPT 5 INTERVAL TIMES
 MIN GRN:  1  MIN WLK:  1  DWL GRN:  10
              EXT PED:  0
 --SELECT---  ---TRACK---  ---RETURN--
               GREEN :  0
 PED CLR:  0  PED CLR:  0  PED CLR:   0
 YEL/10 :  0  YEL/10 :  0  YEL/10 :   0
 RED/10 :  0  RED/10 :  0  RED/10 :   0

 select F - return to Preempt 5 menu
 select 3 - Vehicle Status

PREEMPT 5 VEHICLE STATUS
PHASE....1.2.3.4.5.6.7.8.9.0.1.2.3.4.5.6
 TRK GRN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 DWELL   0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0
 (O-RED,1-GRN,2-FLR,3-FLY,4-DARK,5-FLG)
 CYCLE   0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
    (O-NO..1-ACT..2-MIN REC..3-MX REC)

 select F - return to Preempt 5 menu
```

NOTE: Options 4 & 5 are not used.
Be sure values are set at default=0.

PROGRAM EXTEND TIME ON OPTICAL DETECTOR UNITS FOR 2.0 SEC.

PEDESTRIAN RECALLS

(program controller as shown below)

From the Main Menu, Press '3' (Phase Data)

```
PHASE MENU

 1-VEHICLE DATA        6-SPEC. SEQUENCE+
 2-DENSITY TIMES+      7-DETECTOR DATA
 [3-PEDESTRIAN DATA]   8-PHASE & BANK COPY
 4-INIT & NA RESP+     9-SELECT PHASE BANK
 5-N.LOCK & MISC+
'+' DENOTES BANKABLE DATA                [1]

PEDESTRIAN MENU

          1-PED TIMES+
          [2-PED RECALL+]
          3-PED OFFSET+
          4-MISC PED OPTIONS+

                                          [1]

 PHASE....1...2...3...4...5...6...7...8
 PED RCL   0   2   0   0   0   0   0   2
 PED DLY   0   0   0   0   0   0   0   0

CODES.....0....1....2....3....4
        NONE  1CALL PED  NA   NA+

                                          [1]
```

PED RECALL PROGRAMMING COMPLETE

VEHICLE RECALLS

(program controller as shown below)

From the Main Menu, Press '3' (Phase Data)

```
PHASE MENU

[1-VEHICLE DATA]      6-SPEC. SEQUENCE+
 2-DENSITY TIMES+     7-DETECTOR DATA
 3-PEDESTRIAN DATA    8-PHASE & BANK COPY
 4-INIT & NA RESP+    9-SELECT PHASE BANK
 5-N.LOCK & MISC+
'+' DENOTES BANKABLE DATA                [1]

VEHICLE DATA

          1-VEHICLE TIMES+
          2-DYNAMIC MAX+
          [3-RECALLS+]
          4-BIKE & AWS TIMES+

                                          [1]

 PHASE....1...2...3...4...5...6...7...8
 VEH RCL   0   3   0   3   0   3   0   3
 VEH DLY   0   0   0   0   0   0   0   0

CODES.....0....1....2....3....4....5....
        NONE 1CALL MIN  MAX SOFT BIKE

                                          [1]
```

VEH RECALL PROGRAMMING COMPLETE

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 12-0954T2
DESIGNED: October 2023
SEALED: 09/06/2024
REVISED: N/A

Signal Upgrade-
Electrical Detail - Sheet 3 of 3
(Construction Phase 1, Step 4)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

HNTB NORTH CAROLINA, P.C.
4000 Center at North Hills St
Suite 500
Raleigh, North Carolina 27609
NC License No: C-1554
(919) 546-8997

ELECTRICAL AND PROGRAMMING DETAILS FOR:

Prepared for:
NC Department of Transportation Mobility and Safety Division
Traffic Engineering & Signals Management Section
750 N.Greenfield Pkwy,Garner,NC 27529

NC 127 SE
at
SR 1692 (1st Ave SE)

Division 12 Catawba County Hickory

PLAN DATE:	January 2024	REVIEWED BY:	N.K. Vlanich
PREPARED BY:	E.E. Tiller	REVIEWED BY:	N.R. Simmons

REVISIONS	INIT.	DATE

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 031464 ENGINEER NATASHA R. SIMMONS

DocuSigned by:
Natasha R. Simmons 9/6/2024
SIGNATURE DATE

SIG. INVENTORY NO. 12-0954T2

$$$$$$SYSTIME$$$$$
$$$$$$