ECONOLITE ASC/3-2070 VEHICLE DETECTOR SETUP PROGRAMMING DETAIL FOR ALTERNATE PHASING LOOP 5A

(program controller as shown)

IMPORTANT!

Program detectors per the input file connection and programming chart shown on sheet 1 before proceeding.

1. From Main Menu select [8. UTILITIES]

2. From UTILITIES Submenu select [1. COPY/CLEAR]

3. Copy from DETECTOR PLAN "1" to DETECTOR PLAN "2".

```
COPY / CLEAR UTILITY
        FROM                TO
PHASE TIMING.... . > PHASE TIMING.... .
TIMING PLAN..... . > TIMING PLAN..... .
PH DET OPT PLAN. . > PH DET OPT PLAN. .
DETECTOR PLAN... 1 > DETECTOR PLAN... 2
   TOGGLE TO SELECT A "FROM" AND A "TO"
           THEN PRESS ENTER
```

4. From Main Menu select [6. DETECTORS]

5. From DETECTOR Submenu select [2. VEHICLE DETECTOR SETUP]

6. Place cursor in VEH DET PLAN [ ] position and enter "2".

   – Place cursor in VEH DETECTOR [ ] position and enter "1".
   – Set delay time to "0".

```
VEH DETECTOR [ 1 ]   VEH DET PLAN [ 2 ]     ← NOTICE VEH
TYPE: N-NTCIP                                 DET PLAN 2
TS2 DETECTOR..... X ECPI LOG.......   NO
DET PH - 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6
  1 5   . . . . . . . . . . . . . . .
CALL OPTION.... YES DELAY TIME...   0.0   ← ENSURE DELAY
EXT OPTION. PASSAGE EXTENSION TIME. 0.0      IS SET TO '0'
USE ADDED INITIAL . CROSS SWITCH PH.. 0
LOCK IN....... NONE NTCIP VOL . OR OCC .
PMT QUEUE DELAY- NO
```

   – Place cursor in VEH DETECTOR [ ] position and enter "63".
   – Set assigned phase to "0".

```
                                             ← NOTICE VEH
VEH DETECTOR [63]   VEH DET PLAN [ 2 ]         DET PLAN 2
TYPE: G-GREEN EXTENSION/DELAY
TS2 DETECTOR..... X ECPI LOG.......   NO
DET PH - 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6
  63 0   . . . . . . . . . . . . . . .
EXTEND TIME... 0.0 DELAY TIME...   3.0
USE ADDED INITIAL . CROSS SWITCH PH.. 0
LOCK IN....... NONE NTCIP VOL . OR OCC .
PMT QUEUE DELAY. NO
```

ENSURE PHASE IS SET TO "0" →

END PROGRAMMING

ECONOLITE ASC/3-2070 LOGIC PROCESSOR PROGRAMMING DETAIL FOR LEADING PED INTERVAL (DELAYED GREEN) & LOGIC DETECTOR

(program controller as shown)

The following logic processor configuration holds the FYA's on signal heads 51 and 63 red for the duration of the delayed green time (leading ped interval) when serving a ped call on the opposing through phase.

1. From Main Menu select [1. CONFIGURATION]

2. From CONFIGURATION Submenu select [8. LOGIC PROCESSOR]

3. From the LOGIC PROCESSOR Submenu select [2. LOGIC STATEMENTS]

ENTER A "1" IN THE LP# FIELD, PRESS 'ENTER', AND PROGRAM AS SHOWN.

```
LP#:   1  COPY FROM:   1  ACTIVE:  M   (T/F)
IF    PED ON PH WALK       6     IS   ON
AND   VEH GREEN ON PH      6     IS   OFF

THEN  SIG SET OLP RED       3        ON
      SIG SET OLP YELLOW    3        OFF
      SIG SET OVLP GREEN    3        OFF

ELSE
```
HOLD SIGNAL HEAD 51 FYA RED DURING THE PHASE 6 DELAYED GREEN TIME (LEADING PED INTERVAL)

ENTER A "2" IN THE LP# FIELD, PRESS 'ENTER', AND PROGRAM AS SHOWN.

```
LP#:   2  COPY FROM:   2  ACTIVE:M   (T/F)
IF    PED ON PH WALK       6     IS   ON
AND   VEH GREEN ON PH      6     IS   OFF

THEN  SIG SET OLP RED       1        ON
      SIG SET OLP YELLOW    1        OFF
      SIG SET OVLP GREEN    1        OFF

ELSE
```
HOLD SIGNAL HEAD 63 FYA RED DURING THE PHASE 6 DELAYED GREEN TIME (LEADING PED INTERVAL)

ENTER A "3" IN THE LP# FIELD, PRESS 'ENTER', AND PROGRAM AS SHOWN.

```
LP#:   3  COPY FROM:   3  ACTIVE:M   (T/F)
IF    DET                  1  IS ON

THEN  DET SET VEH 49-64    63     ON



ELSE
```
LOGIC FOR LOOP 5A (DETECTOR 1/DETECTOR 63) "ON".

ENTER A "4" IN THE LP# FIELD, PRESS 'ENTER', AND PROGRAM AS SHOWN.

```
LP#:   4  COPY FROM:   4  ACTIVE:M   (T/F)
IF    DET                  1  IS OFF

THEN  DET SET VEH 49-64    63     OFF



ELSE
```
LOGIC FOR LOOP 5A (DETECTOR 1/DETECTOR 63) "OFF".

1. From Main Menu select [1. CONFIGURATION]

2. From CONFIGURATION Submenu select [8. LOGIC PROCESSOR]

3. From the LOGIC PROCESSOR Submenu select [1. LOGIC STATEMENT CONTROL]

ENABLE LOGIC PROCESSOR STATEMENTS 1-4 BY POSITIONING THE CURSOR OVER THE FIELDS SHOWN BELOW AND USING THE TOGGLE KEY TO ENABLE THEM.
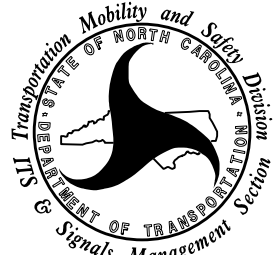
```
LOGIC STATEMENT CONTROL
          1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6
LP 1-15   E E E E . . . . . . . . . . . .
LP 16-30  . . . . . . . . . . . . . . . .
LP 31-45  . . . . . . . . . . . . . . . .
LP 46-60  . . . . . . . . . . . . . . . .
LP 61-75  . . . . . . . . . . . . . . . .
LP 76-90  . . . . . . . . . . . . . . . .
```

END PROGRAMMING

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 05-1244
DESIGNED: October 2025
SEALED: 10/28/2025
REVISED: N/A

Electrical Detail - Sheet 3 of 4

ELECTRICAL AND PROGRAMMING DETAILS FOR:

Prepared In the Offices of:

Mobility and Safety Division
DEPARTMENT OF TRANSPORTATION
Signals Management Section

750 N.Greenfield Pkwy,Garner,NC 27529

SR 1637 (Church Street) at SR 3126 (Airport Boulevard)

Division 5 | Wake County | Morrisville
PLAN DATE: October 2025 | REVIEWED BY:
PREPARED BY: S.Kirkpatrick | REVIEWED BY:

REVISIONS		INIT.	DATE

SEAL

SEAL
031001

D. Todd Joyce

DocuSigned by:
D. Todd Joyce   10/28/2025
DATE

SIG. INVENTORY NO.   05-1244