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 "5".
   - Set delay time to "3".

```
VEH DETECTOR [ 5]   VEH DET PLAN [ 2]     ← NOTICE VEH
TYPE: N-NTCIP                                DET PLAN 2
TS2 DETECTOR..... . ECPI LOG.......  NO
DET PH - 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6
  5 5   . . . . . . . . . . . . . . . .
EXTEND TIME... 0.0 DELAY TIME...   3.0     ← ENSURE DELAY
USE ADDED INITIAL . CROSS SWITCH PH.. 0      IS SET TO '3'
LOCK IN....... NONE NTCIP VOL . OR OCC .
PMT QUEUE DELAY. NO
```

   - Place cursor in VEH DETECTOR [ ] position and enter "22".
   - Set assigned phase to "0".

```
VEH DETECTOR [22]   VEH DET PLAN [ 2]     ← NOTICE VEH
TYPE: N-NTCIP                                DET PLAN 2
TS2 DETECTOR..... . ECPI LOG.......  NO
DET PH - 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6
 22 0   . . . . . . . . . . . . . . . .
EXTEND TIME... 0.0 DELAY TIME...   3.0     ← ENSURE DELAY
USE ADDED INITIAL . CROSS SWITCH PH.. 0      IS SET TO '3'
LOCK IN....... NONE NTCIP VOL . OR OCC .
PMT QUEUE DELAY. NO
```
ENSURE PHASE
IS SET TO "0"

END PROGRAMMING

ECONOLITE ASC/3-2070
OVERLAP PROGRAMMING DETAIL

(program controller as shown)

1. From Main Menu select `2. CONTROLLER`

2. From CONTROLLER Submenu select `2. VEHICLE OVERLAPS`

Toggle To "Overlap G"

OVERLAP G

Select TMG VEH OVLP [G] and 'NORMAL'
```
TMG VEH OVLP...[G] TYPE: ......[NORMAL]
   PHASES 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6
INCLUDED . . . . . X . . . . . . . . . .

LAG GRN 0.0 YEL 0.0 RED 0.0
```
Toggle To "Overlap A"

OVERLAP A

Select TMG VEH OVLP [A] and 'OTHER/ECONOLITE'
```
TMG VEH OVLP...[A] TYPE:[OTHER/ECONOLITE]
   PHASES 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6
INCLUDED . X . . . . . . . . . . . . . .
PROTECT  . . . . . . . . . . . . . . . .
PED PRTC . . . . . . . . . . . . . . . .
NOT OVLP . . . . . . . . . . . . . . . .
FLSH GRN . 1 . . . . . . . . . . . . . .
LAG X PH . . . . . . . . . . . . . . . .
LAG 2 PH . . . . . . . . . . . . . . . .

LAG GRN 0.0 YEL 0.0 RED 0.0 ADV GRN 0.0
```
Toggle Twice

OVERLAP C

Select TMG VEH OVLP [C] and 'PPLT FYA'
```
TMG VEH OVLP...[C] TYPE: .....[PPLT FYA]

PROTECTED LEFT TURN....    PHASE    5
OPPOSING THROUGH.......    PHASE    6

FLASHING ARROW OUTPUT.....CH11 ISOLATE

DELAY START OF: FYA..0.0 CLEARANCE..0.0
ACTION PLAN SF BIT DISABLE........... 5     ← NOTICE ACTION
```
PLAN SF BIT "5"
Toggle Once

OVERLAP D

Select TMG VEH OVLP [D] and 'PPLT FYA'
```
TMG VEH OVLP...[D] TYPE: .....[PPLT FYA]

PROTECTED LEFT TURN....    OVERLAP  G
OPPOSING THROUGH.......    PHASE    4

FLASHING ARROW OUTPUT.....CH12 ISOLATE

DELAY START OF: FYA..0.0 CLEARANCE..0.0
ACTION PLAN SF BIT DISABLE........... 0
```

END PROGRAMMING

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 06-0193
DESIGNED: JULY 2022
SEALED: FEBRUARY 2023
REVISED: N/A

ECONOLITE ASC/3-2070
LOAD SWITCH ASSIGNMENT DETAIL

(program controller as shown)

To assign load switch S10 as OLG, program LD SWITCH 7
as OVLP '7' TYPE 'O' as shown below.

1. From Main Menu select `1. CONFIGURATION`

2. From CONFIGURATION Submenu select `3. LOAD SW ASSIGN`

NOTICE OVERLAP G
ASSIGNED TO
LD SWITCH 7 ➔

```
LD SWITCH ASSIGN
       PHASE        DIMMING ---FLASH---
       /OVLP  TYPE R Y G D PWR AUT TGR
  1      1     V   . . . + A   R   X
  2      2     V   . . . + A   Y   .
  3      3     V   . . . + A   R   X
  4      4     V   . . . + A   R   .
  5      5     V   . . . - A   R   .
  6      6     V   . . . - A   Y   X
  7      7     O   . . . + A   R   X
  8      V     V   . . . + A   R   X
  9      1     O   . . . + A   R   X
 10      2     O   . . . + A   R   .
 11      3     O   . . . - A   R   .
 12      4     O   . . . - A   R   .
 13      P     P   . . . + A   .   .
 14      4     P   . . . - A   .   .
 15      6     P   . . . + A   .   .
 16      3     P   . . . - A   .   .
```

FLASHER CIRCUIT MODIFICATION DETAIL

IN ORDER TO ENSURE THAT SIGNALS FLASH CONCURRENTLY ON THE
SAME APPROACH, MAKE THE FOLLOWING FLASHER CIRCUIT CHANGES:

1. ON REAR OF PDA - REMOVE WIRE FROM TERM. T2-4 AND TERMINATE ON T2-2.

2. ON REAR OF PDA - REMOVE WIRE FROM TERM. T2-5 AND TERMINATE ON T2-3.
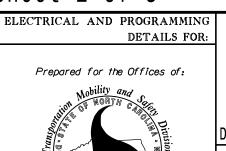
3. REMOVE FLASHER UNIT 2.

THE CHANGES LISTED ABOVE TIES ALL PHASES AND OVERLAPS TO FLASHER UNIT 1.

Final Design
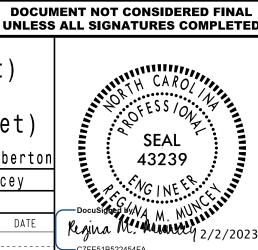Electrical Detail - Sheet 2 of 3

Stantec

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ELECTRICAL AND PROGRAMMING
DETAILS FOR:

Prepared for the Offices of:
Transportation Mobility and Safety Division
DEPARTMENT OF TRANSPORTATION
ITS & Signal Management
750 N.Greenfield Pkwy,Garner,NC 27529

NC 41-72 (West 2nd Street)
at
SR 1536 (North Water Street)

Division 6	Robeson County	Lumberton
PLAN DATE: FEBRUARY 2023	REVIEWED BY: R M Muncey	
PREPARED BY: D. Waller	REVIEWED BY:	

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NORTH CAROLINA
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Regina M. Muncey
SIGNATURE
C7FE53B52454FA
2/2/2023
DATE

REVISIONS		INIT.	DATE

SIG. INVENTORY NO. 06-0193