

LOGICAL I/O PROCESSOR PROGRAMMING DETAIL TO PRODUCE SPECIAL FYA-PPLT SIGNAL SEQUENCE

(program controller as shown below)

1. FROM MAIN MENU PRESS '2' (PHASE CONTROL), THEN '1' (PHASE CONTROL FUNCTIONS). SCROLL TO THE BOTTOM OF THE MENU AND ENABLE ACT LOGIC COMMANDS 1, 2, 3, 4, 5, AND 6.
2. FROM MAIN MENU PRESS '6' (OUTPUTS), THEN '3' (LOGICAL I/O PROCESSOR).

```

LOGICAL I/O COMMAND #1 (+/-COMMAND#)
IF ACTIVE PHASE #1 IS ON
AND RED CLEAR ON PHASE #1 IS ON

      ↓
SCROLL DOWN

THEN:
SET OUTPUT ASSIGNMENT #50 ON
SET OUTPUT ASSIGNMENT #51 OFF
    
```

NOTE: LOGIC FOR
Phase 2 RED
CLEAR WHEN
TRANSITIONING
FROM Phase 2
TO PHASE 2
(HEAD 11).

```

LOGICAL I/O COMMAND #2 (+/-COMMAND#)
IF ACTIVE PHASE #1 IS ON

      ↓
SCROLL DOWN

THEN:
SET OUTPUT ASSIGNMENT #52 OFF
    
```

NOTE: LOGIC FOR
SWITCHING
FLASHING YELLOW
ARROW "OFF"
DURING Phase 2
(HEAD 11).

```

LOGICAL I/O COMMAND #3 (+/-COMMAND#)
IF YELLOW ON PHASE #1 IS ON

      ↓
SCROLL DOWN

THEN:
SET OUTPUT ASSIGNMENT #51 ON
    
```

NOTE: LOGIC FOR
YELLOW
ARROW
CLEARANCE
FROM Phase 2
(HEAD 11).

```

LOGICAL I/O COMMAND #4 (+/-COMMAND#)
IF ACTIVE PHASE #5 IS ON
AND RED CLEAR ON PHASE #5 IS ON

      ↓
SCROLL DOWN

THEN:
SET OUTPUT ASSIGNMENT #42 ON
SET OUTPUT ASSIGNMENT #43 OFF
    
```

NOTE: LOGIC FOR
PHASE 5 RED
CLEAR WHEN
TRANSITIONING
FROM PHASE 5
TO PHASE 6
(HEAD 51).

```

LOGICAL I/O COMMAND #5 (+/-COMMAND#)
IF ACTIVE PHASE #5 IS ON

      ↓
SCROLL DOWN

THEN:
SET OUTPUT ASSIGNMENT #44 OFF
    
```

NOTE: LOGIC FOR
SWITCHING
FLASHING YELLOW
ARROW "OFF"
DURING PHASE 5
(HEAD 51).

```

LOGICAL I/O COMMAND #6 (+/-COMMAND#)
IF YELLOW ON PHASE #5 IS ON

      ↓
SCROLL DOWN

THEN:
SET OUTPUT ASSIGNMENT #43 ON
    
```

NOTE: LOGIC FOR
YELLOW
ARROW
CLEARANCE
FROM PHASE 5
(HEAD 51).

LOGICAL I/O PROCESSOR PROGRAMMING COMPLETE




| <u>OUTPUT REFERENCE SCHEDULE</u> | |
|----------------------------------|------------------|
| USE TO INTERPRET LOGIC PROCESSOR | |
| OUTPUT 42 = | Overlap C Red |
| OUTPUT 43 = | Overlap C Yellow |
| OUTPUT 44 = | Overlap C Green |
| OUTPUT 50 = | Overlap A Red |
| OUTPUT 51 = | Overlap A Yellow |
| OUTPUT 52 = | Overlap A Green |

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 03-0847
DESIGNED: May 2022
SEALED: 5/17/2024
REVISED:

Signal Upgrade - Final Design
Electrical Detail - Sheet 2 of 8

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

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| | | |
|---|--|---|
| ELECTRICAL AND PROGRAMMING DETAILS FOR: | SR 2048 (Gordon Rd) at SR 2698 (Netherlands Dr/ Eaton Elementary School) | SEAL NORTH CAROLINA PROFESSIONAL SEAL 031464 ENGINEER NATASHA R. SIMMONS |
|  | Division 3 New Hanover County Wilmington | DocuSigned by:  5/17/2024 |
| Prepared in the Office of:  | PLAN DATE: August 2023 REVIEWED BY: N.K. Vlanich PREPARED BY: E.E. Tiller REVIEWED BY: N.R. Simmons | REVISIONS INIT. DATE _____ _____ _____ |
| 750 N. Greenfield Pkwy, Garner, NC 27529 | REVISIONS INIT. DATE _____ _____ _____ | SIG. INVENTORY NO. 03-0847 |