

## 2 Phase Fully Actuated (Winston-Salem Signal System)

## NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
2. Do not program signal for late night flashing

operation unless otherwise directed by the Engineer. 3. Set all detector units to presence mode.

4. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.

5. The City Traffic Engineer will determine the hours of use for each phasing plan.

6. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

LEGEND

Traffic Signal Head Modified Signal Head

Pedestrian Signal Head With Push Button & Sign

Signal Pole with Guy Signal Pole with Sidewalk Guy Inductive Loop Detector Controller & Cabinet

Junction Box 2-in Underground Conduit

> Right of Way Directional Arrow

Directional Drill

Metal Pole with Mastarm

Guardrail

No Left Turn Sign (R3-2)

"U-TURN YIELD TO RIGHT TURN" Sign (R10-16)

Type II Signal Pedestal

**EXISTING** 

N/A

N/A

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL 7 056142

2/12/2024

DEFAULT PHASING ALTERNATE PHASING OASIS 2070 LOOP & DETECTOR INSTALLATION CHART TABLE OF OPERATION TABLE OF OPERATION INDUCTIVE LOOPS | DETECTOR PROGRAMMING | PHASE SIGNAL SIGNAL FROM SIZE LOOP TURNS STOPBAR FACE FACE 6X6 300 2·A 2B 6X6 300 2.2 4·A 6X:40 2-4-2 6X40 41,42,43 41,42,43 15# 7A 6X40 2-4-2 Y

# Disable Delay During Alternate Phasing Operation.

US 158 (Reidsville Rd.)

METAL POLE #1 -L- STA 16+46 +/-54' +/- RT.

RKK

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8601 Six Forks Road Suite 700 | Raleigh, North Carolina 27615-2965

Engineers | Construction Managers | Planners | Scientists

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SIGNAL FACE I.D.

21

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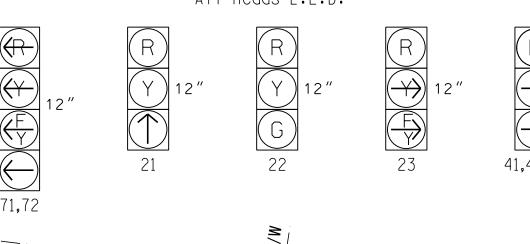
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71,72

71,72

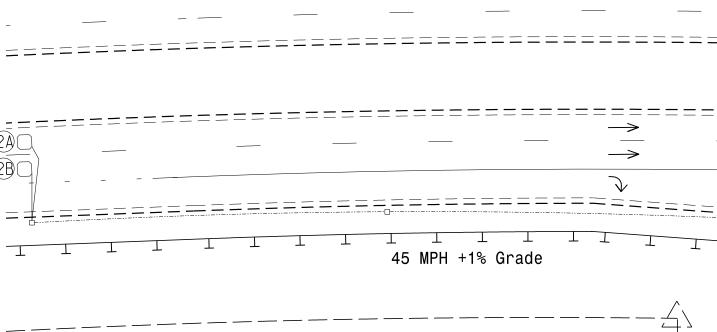
All Heads L.E.D.

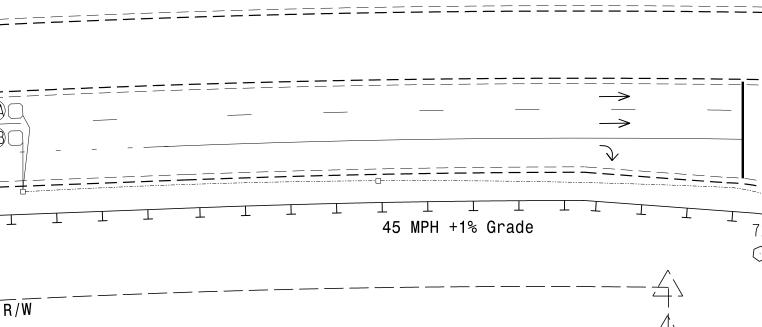
ALTERNATE PHASING DIAGRAM

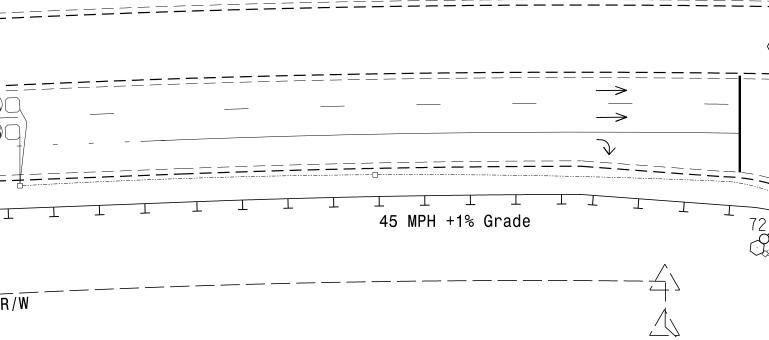


1 41,42,43

| 71,72<br>R/W | ———— |        |                  |
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|              |      | US 158 | (Reidsville Rd.) |
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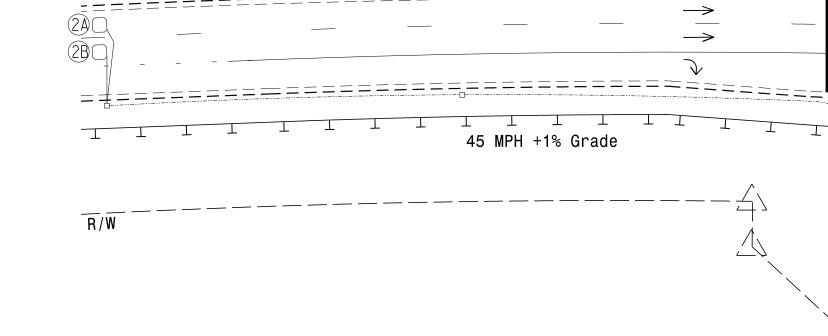






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| OASIS 2070 TIMING CHART |     |  |

| OASIS 2070 TIMING CHART |            |     |     |  |  |  |  |
|-------------------------|------------|-----|-----|--|--|--|--|
|                         | PHASE      |     |     |  |  |  |  |
| FEATURE                 | 2          | 4   | 7   |  |  |  |  |
| Min Green 1 *           | 12         | 7   | 7   |  |  |  |  |
| Extension 1 *           | 6.0        | 2.0 | 2.0 |  |  |  |  |
| Max Green 1 *           | 90         | 30  | 30  |  |  |  |  |
| Yellow Clearance        | 4.4        | 4.4 | 3.0 |  |  |  |  |
| Red Clearance           | 2.2        | 1.0 | 2.6 |  |  |  |  |
| Red Revert              | 2.0        | 2.0 | 2.0 |  |  |  |  |
| Walk 1 *                | -          | -   | -   |  |  |  |  |
| Don't Walk 1            | -          | -   | -   |  |  |  |  |
| Seconds Per Actuation * | 1.5        | -   | -   |  |  |  |  |
| Max Variable Initial *  | 34         | -   | -   |  |  |  |  |
| Time Before Reduction * | 15         | -   | -   |  |  |  |  |
| Time To Reduce *        | 30         | -   | -   |  |  |  |  |
| Minimum Gap             | 3.0        | -   | -   |  |  |  |  |
| Recall Mode             | MIN RECALL | =   | -   |  |  |  |  |
| Vehicle Call Memory     | YELLOW     | -   | -   |  |  |  |  |
| Dual Entry              | -          | ON  | ON  |  |  |  |  |

DEFAULT PHASING DIAGRAM

PHASING DIAGRAM DETECTION LEGEND

DETECTED MOVEMENT

←−−−⇒ PEDESTRIAN MOVEMENT

UNSIGNALIZED MOVEMENT

UNDETECTED MOVEMENT (OVERLAP)

Signal Upgrade - Final Design

R/W



US 158 EB (Reidsville Rd.) SR 2662 (Old Greensboro Rd.)

**PROPOSED** 

N/A

N/A

Division 9 Forsyth County PLAN DATE: February 2024 REVIEWED BY:WP Erickson-Jones 750 N.Greenfield Pkwy, Garner, NC 27529 PREPARED BY: H TOWNSEND REVIEWED BY: REVISIONS

Porter Jones SIG. INVENTORY NO.

| Simultaneous Gap            | ON  | ON               | ON        |  |  |  |  |
|-----------------------------|---|------------------|-----------|--|--|--|--|
| * These values may be field | l adjusted. Do  | not adjust Min G | Freen and |  |  |  |  |
| Extension times for phase   | Extension times for phase 2 lower than what is shown. Min |                  |           |  |  |  |  |
| Green for all other phases  | should not be   | lower than 4 se  | conds.    |  |  |  |  |
|                             |   |                  |           |  |  |  |  |