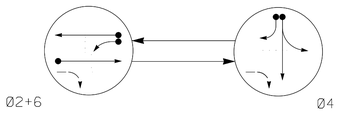
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| U-4753 | SIG. 6.0 |

## PHASING DIAGRAM




PHASING DIAGRAM DETECTION LEGEND

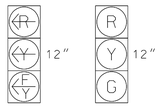
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

## DEFAULT PHASING TABLE OF OPERATION

| SIGNAL FACE | PHASE Ø2+6 | PHASE Ø4 | FLASH |
|---|---|---|---|
| 21,22 | G | R | R |
| 41,42 | R | G | R |
| 61 | ~~Y~~ | ~~R~~ | ~~R~~ |
| 62,63 | G | R | R |

## SIGNAL FACE I.D.

All Heads L.E.D.




## MAXTIME DETECTOR INSTALLATION CHART

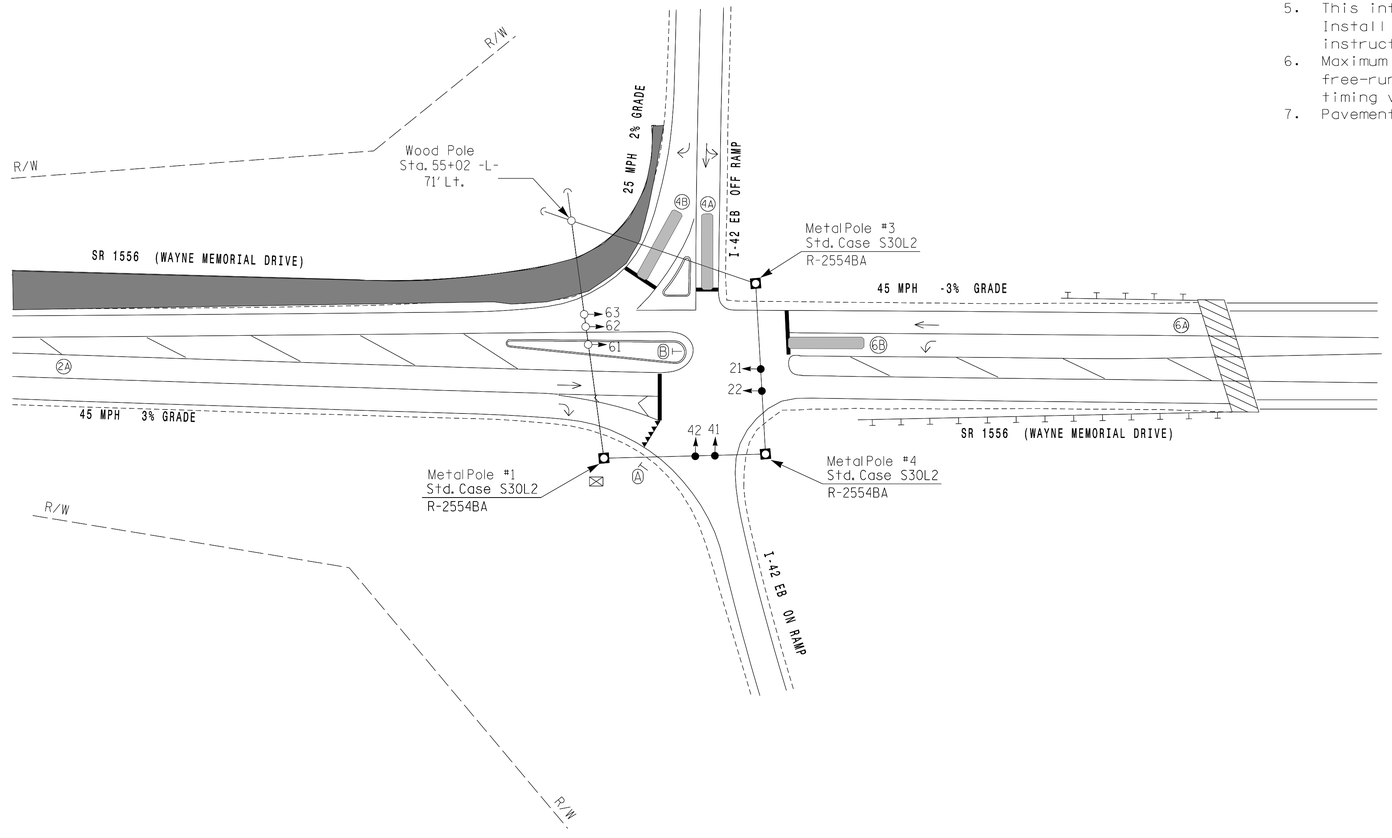
| DETECTOR | | | | | | PROGRAMMING | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LOOP | SIZE (FT) | DISTANCE FROM STOPBAR (FT) | TURNS | NEW LOOP | | CALL PHASE | DELAY TIME | EXTEND TIME | EXTEND | ADDED INITIAL | CALL | DELAY DURING GREEN | NEW CARD |
| 4A | * | 0 | * | X | | 4 | - | - | X | - | X | - | * |
| 4B | * | 0 | * | X | | 4 | 15 | - | X | - | X | - | * |
| 6B | * | 0 | * | X | | 6 | - | - | X | - | X | - | * |

*Multizone microwave detection zone

2 Phase
Fully Actuated
Goldsboro 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. This intersection uses multi-zone microwave detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
6. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
7. Pavement markings are existing.




## MAXTIME TIMING CHART

| FEATURE | PHASE 2 | PHASE 4 | PHASE 6 |
|---|---|---|---|
| Walk * | – | – | – |
| Ped Clear | – | – | – |
| Min Green * | 12 | 7 | 12 |
| Passage * | 2.0 | 2.0 | 2.0 |
| Max 1 * | 90 | 30 | 90 |
| Yellow Change | 4.8 | 3.1 | 4.8 |
| Red Clear | 1.4 | 1.7 | 1.4 |
| Red Revert | 2.0 | 2.0 | 2.0 |
| Added Initial * | – | – | – |
| Maximum Initial * | – | – | – |
| Time Before Reduction * | – | – | – |
| Time To Reduce * | – | – | – |
| Minimum Gap | – | – | – |
| Advance Walk | – | – | – |
| Non Lock Detector | – | X | – |
| Vehicle Recall | MIN RECALL | – | MIN RECALL |
| Dual Entry | – | – | – |
| Simultaneous Gap | X | X | X |

* These values may be field adjusted. Do not adjust Min Green and Passage times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

## ADVANCED MICROWAVE EXTENDED RANGE DETECTION

| FUNCTION | Sensor 1 (2A) | | Sensor 2 (6A) | |
|---|---|---|---|---|
| Channel | 1 | | 1 | |
| Phase | 2 | | 6 | |
| Direction of Travel | NB | | SB | |
| Type | PRIORITY | | PRIORITY | |
| Level | 2 | QUEUE | 2 | QUEUE |
| Discovery Zone (ft) | <750 | - | <750 | - |
| Range (ft) | 600-100 | 150-100 | 600-100 | 150-100 |
| Enable Speed | Y | Y | Y | Y |
| Speed Range (mph) | 35-100 | 1-35 | 35-100 | 1-35 |
| Enable Estimated Time of Arrival | Y | N | Y | N |
| Estimated Time of Arrival (sec) | 2.5-6.5 | - | 2.5-6.5 | - |

## LEGEND

| PROPOSED | | EXISTING |
|---|---|---|
| ○→ | Traffic Signal Head | ●→ |
| ◐→ | Modified Signal Head | N/A |
| ⊣ | Sign | ⊣ |
| □↓ | Pedestrian Signal Head With Push Button & Sign | ■↓ |
| ○→ | Signal Pole with Guy | ●→ |
| ○↓ | Signal Pole with Sidewalk Guy | ●↓ |
| ◎ | Metal Strain Pole | ◘ |
| ⊠ | Controller & Cabinet | ⊠ |
| □ | Junction Box | ■ |
| ---------- | 2-in Underground Conduit | ---------- |
| N/A | Right of Way | ---------- |
| → | Directional Arrow | → |
| ▬ | Construction Zone | N/A |
| ▬ | Detection Zone | ▬ |
| Ⓐ | "YIELD" Sign (R1-2) | Ⓐ |
| Ⓑ | No U-Turn/No Left Turn Sign (R3-18) | Ⓑ |

Signal Upgrade - Temporary Design 1

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


TRANSYSTEMS
1 Glenwood Avenue
Raleigh, NC 27603
Tel:919.789.9977
Fax:919.789.9591
License: F-0453


Prepared for the Offices of:
Transportation Mobility and Safety Division
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Signal Design Section
750 N.Greenfield Pkwy,Garner,NC 27529

SR 1556 (Wayne Memorial Drive)
at
I-42 EB Ramps

Division 4 Wayne County Goldsboro

PLAN DATE: October 2025 REVIEWED BY: G.G. Murr, Jr.
PREPARED BY: Nadia Degbotse REVIEWED BY:

SCALE 0 40 1"=40'

| REVISIONS | INIT. | DATE |
|---|---|---|
| | | |

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 14543 ENGINEER GENE G. MURR, JR.

Signed by: Gene G. Murr Jr. 10/5/2025
AA6F5076CAB34CF...

SIG. INVENTORY NO. 04-1356TI

10/3/2025
04-1356TI_sig_dsn_2024xxxx.dgn
USER:ndegbotse