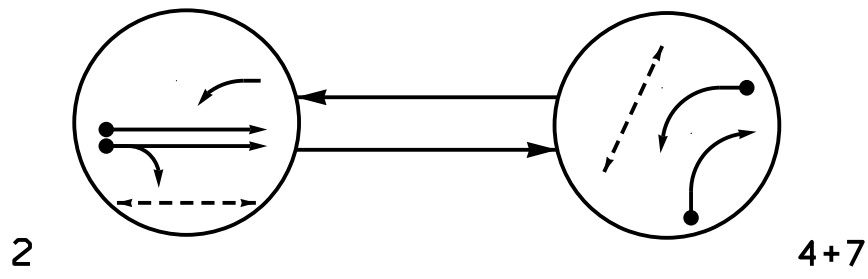


DEFAULT PHASING DIAGRAM



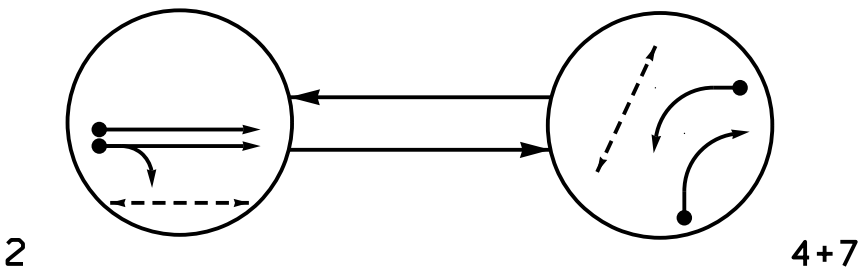
PHASING DIAGRAM DETECTION LEGEND

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

DEFAULT TABLE OF OPERATION

| SIGNAL FACE | PHASE | | |
|-------------|-------|-------|-------|
| | 2 | 4 + 7 | FLASH |
| 21 | ↑ | R | R |
| 22 | G | R | R |
| 41, 42 | R | → | R |
| 71, 72 | ← | ← | ← |
| P21, P22 | W | DW | DRK |
| P41, P42 | DW | W | DRK |

ALTERNATE PHASING DIAGRAM



ALTERNATE TABLE OF OPERATION

| SIGNAL FACE | PHASE | | |
|-------------|-------|-------|-------|
| | 2 | 4 + 7 | FLASH |
| 21 | ↑ | R | R |
| 22 | G | R | R |
| 41, 42 | R | → | R |
| 71, 72 | ← | ← | ← |
| P21, P22 | W | DW | DRK |
| P41, P42 | DW | W | DRK |

MAXTIME DETECTOR INSTALLATION CHART

| DETECTOR | | | | PROGRAMMING | | | | | | |
|----------|-----------|----------------------------|-------|-------------|------------|------------|-------------|--------|---------------|------|
| ZONE | SIZE (FT) | DISTANCE FROM STOPBAR (FT) | TURNS | NEW ZONE | CALL PHASE | DELAY TIME | EXTEND TIME | EXTEND | ADDED INITIAL | CALL |
| 4A * | 6X40 | 0 | * | X | 4 | 15.0 | - | X | - | X |
| 7A * | 6X40 | 0 | * | X | 7 | 15.0* | - | X | - | X |

* Disable delay during Alternate Phasing Operation.
* Microwave Detection Zone

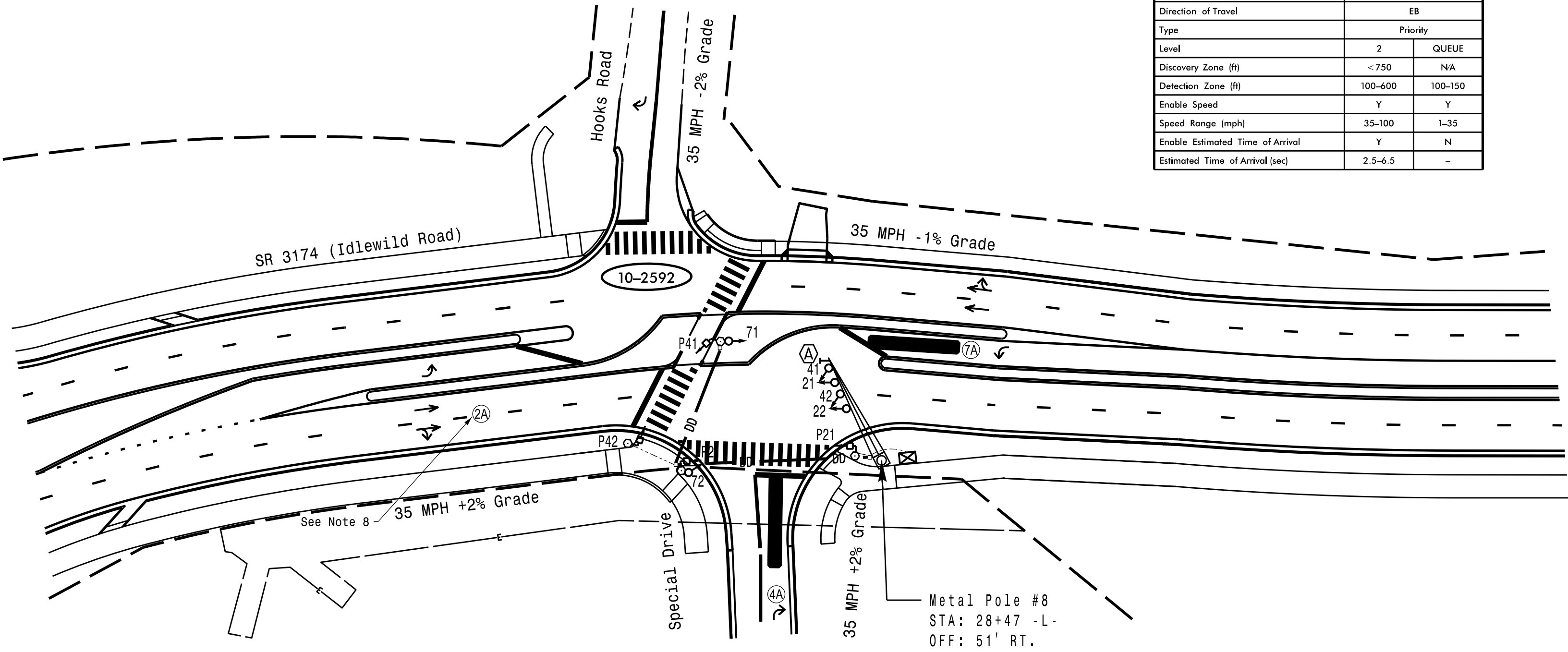
Advance Microwave Detection

| FUNCTION | Sensor 1 2A |
|----------------------------------|-------------|
| Channel | 1 |
| Phase | 2 |
| Direction of Travel | EB |
| Type | Priority |
| Level | 2 |
| Discovery Zone (ft) | <750 |
| Detection Zone (ft) | 100-600 |
| Enable Speed | Y |
| Speed Range (mph) | 35-100 |
| Enable Estimated Time of Arrival | Y |
| Estimated Time of Arrival (sec) | 2.5-6.5 |

2 Phase
Fully Actuated w/
Alternate Phasing
SR 3174/1501 (Idlewild Road) CLS

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
- Set all detector units to presence mode.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "DON'T WALK" time only.
- The Division Traffic Engineer will determine the hours of use for each phasing plan.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- This intersection uses multi-zone microwave detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.



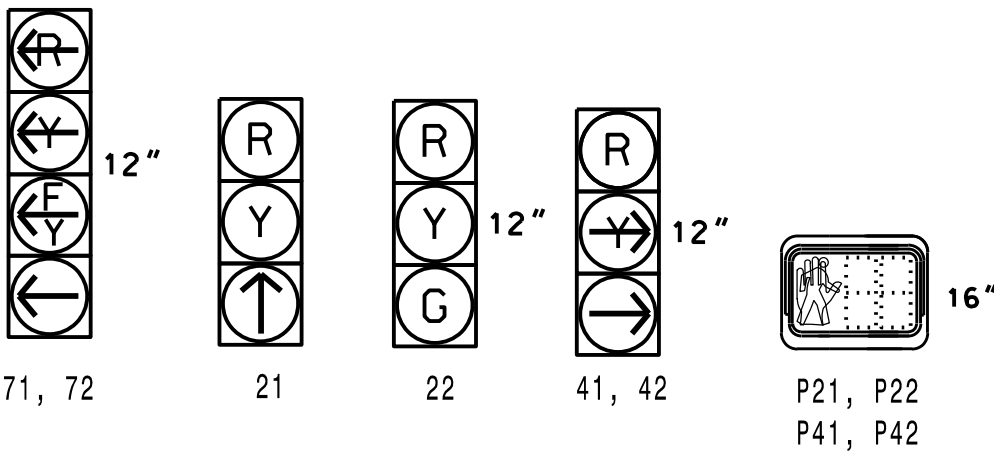
MAXTIME TIMING CHART

| FEATURE | PHASE | | |
|-------------------------|------------|-----|-----|
| | 2 | 4 | 7 |
| Walk * | 14 | 7 | - |
| Ped Clear | 17 | 6 | - |
| Min Green * | 10 | 7 | 7 |
| Passage * | 3.0 | 2.0 | 2.0 |
| Max 1 * | 90 | 25 | 25 |
| Yellow Change | 3.7 | 3.0 | 3.0 |
| Red Clear | 1.9 | 2.4 | 2.4 |
| Added Initial * | - | - | - |
| Maximum Initial * | - | - | - |
| Time Before Reduction * | - | - | - |
| Time To Reduce * | - | - | - |
| Minimum Gap | - | - | - |
| Advance Walk | 7 | - | - |
| Non Lock Detector | - | X | X |
| Vehicle Recall | MIN RECALL | - | - |
| Dual Entry | - | X | X |

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

SIGNAL FACE I.D.

All Heads L.E.D.

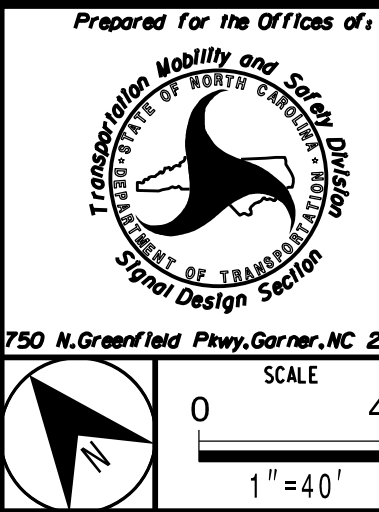


LEGEND

| PROPOSED | EXISTING |
|----------|----------|
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New Installation

PLANS PREPARED IN THE OFFICE OF:
Kimley-Horn
NC License #F-0102
421 Fayetteville Street, Suite 600
Raleigh, NC 27601
(919) 677-2000



| | |
|--|-------------------------|
| SR 3174 (Idlewild Road) Eastbound at Special Drive | |
| Division 10 Mecklenburg County Stallings | |
| PLAN DATE: February 2025 | REVIEWED BY: KP Baumann |
| PREPARED BY: SP Pennington | REVIEWED BY: |
| REVISIONS | |
| INIT. | DATE |
| | |
| | |
| | |
| | |

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

| |
|--------------------|
| SEAL |
| |
| SIGNATURE |
| DATE |
| 5/12/2025 |
| SIG. INVENTORY NO. |
| 10-2591 |