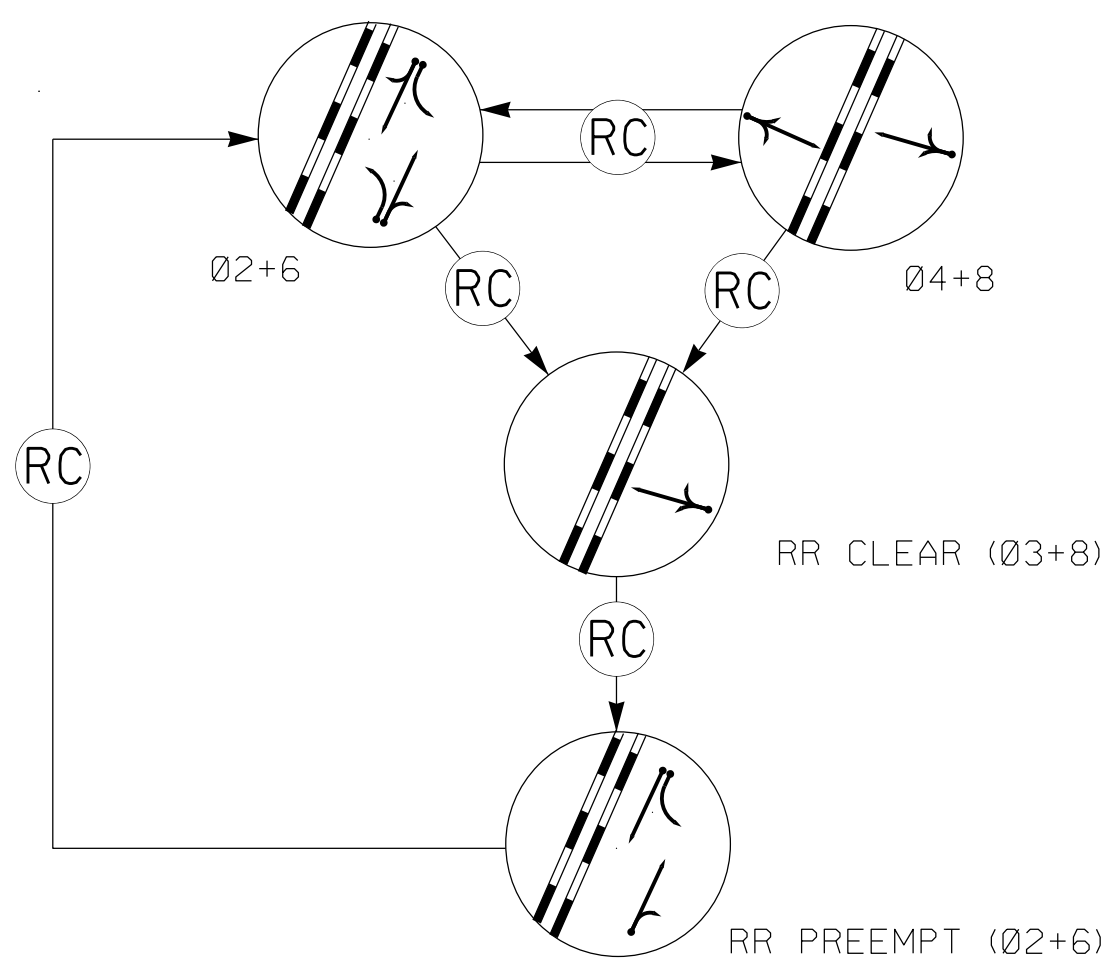


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION

| SIGNAL FACE | PHASE | | | | |
|-------------|--------|--------|-------|--------|-------|
| | 02 + 6 | 04 + 8 | CLEAR | RR PRE | FLASH |
| 21, 22 | G | R | R | G | Y |
| 41, 42, 43 | R | G | R | R | R |
| 61, 62 | G | R | R | G | Y |
| 81, 83 | R | G | G | R | R |
| 82 | R | G | | R | R |
| A | OFF | OFF | OFF | ON | * |
| B | OFF | OFF | OFF | ON | * |

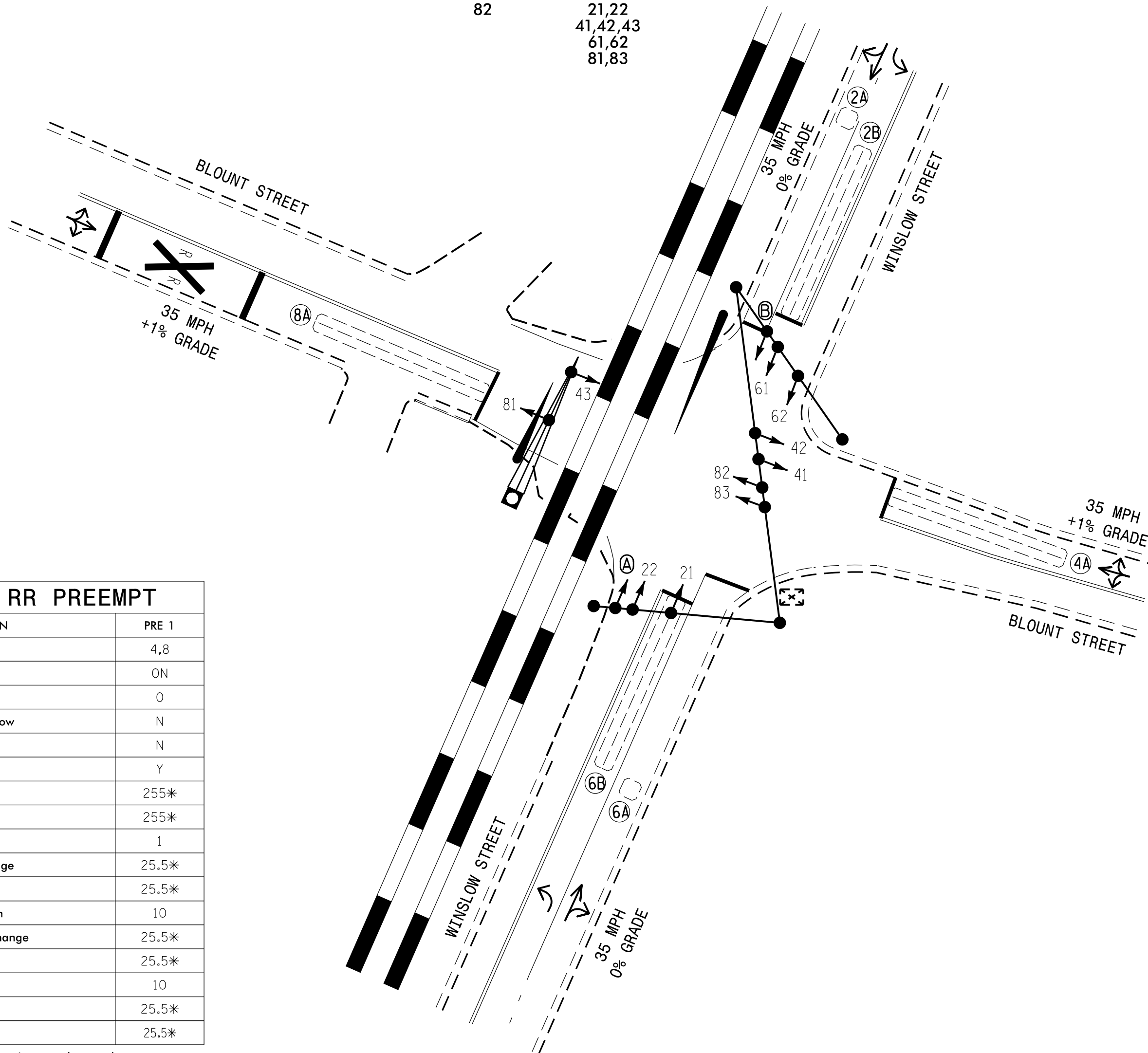
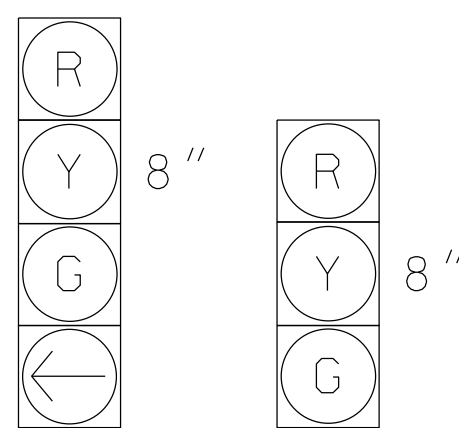
* SEE NOTE 8

ASC/3 DETECTOR INSTALLATION CHART

| LOOP | SIZE (FT) | DISTANCE FROM STOPBAR (FT) | TURNS | PROGRAMMING | | | | | SYSTEM LOOP | NEW CARD | |
|------|-----------|----------------------------|-------|-------------|-------|---------|-------------|------------|-------------|----------|------|
| | | | | NEW LOOP | PHASE | CALLING | EXTEND TIME | DELAY TIME | | | TYPE |
| 2A | 6X6 | 70 | 4 | - | 2 | Yes | - | - | N | - | Y |
| 2B | 6X60 | 0 | 2-4-2 | - | 2 | Yes | - | - | N | - | Y |
| 4A | 6X60 | 0 | 2-4-2 | - | 4 | Yes | - | - | N | - | Y |
| 6A | 6X6 | 70 | 4 | - | 6 | Yes | - | - | N | - | Y |
| 6B | 6X60 | 0 | 2-4-2 | - | 6 | Yes | - | - | N | - | Y |
| 8A | 6X60 | 0 | 2-4-2 | - | 8 | Yes | - | - | N | - | Y |

SIGNAL FACE I.D.

All Heads L.E.D.



2 Phase Fully Actuated (Fayetteville Signal System)

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
- Located new cabinet on existing foundation.
- Pavement markings are existing.
- Maximum times shown in Timing Chart are for free-run operation only. Coordinated signal system timing values shall supercede these values.
- This signal is part of the Fayetteville Signal System.
- Begin preemption sequence immediately after track call.
- Do not place this traffic signal in service until it has been properly interconnected with the railroad-highway crossing devices and the necessary railroad preemption.
- Blankout signs shall operate normally during flashing operation.
- Total railroad warning time shall be equal to or greater than maximum traffic signal preemption time.
- Program Phase 4 and 8 for dual entry.

ASC/3 TIMING CHART

| FEATURE | PHASE | | | |
|-------------------------|-------------|-----|-------------|-----|
| | 2 | 4 | 6 | 8 |
| Min Green * | 12 | 20 | 12 | 20 |
| Walk * | 0 | 0 | 0 | 0 |
| Ped Clear | 0 | 0 | 0 | 0 |
| Veh. Extension * | 3.0 | 1.0 | 3.0 | 1.0 |
| Max 1 * | 50 | 30 | 50 | 30 |
| Yellow | 3.8 | 3.8 | 3.8 | 3.8 |
| Red Clear | 1.2 | 1.3 | 1.0 | 1.9 |
| Red Revert | 0.0 | 0.0 | 0.0 | 0.0 |
| Actuations B4 Add * | - | - | - | - |
| Seconds / Actuation * | - | - | - | - |
| Max Initial * | - | - | - | - |
| Time Before Reduction * | - | - | - | - |
| Time To Reduce * | - | - | - | - |
| Minimum Gap | - | - | - | - |
| Locking Detector | X | - | X | - |
| Recall Position | VEH. RECALL | - | VEH. RECALL | - |
| Dual Entry | - | X | - | X |
| Simultaneous Gap | X | X | X | X |

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

ASC/3 RR PREEMPT

| FUNCTION | PRE 1 |
|---------------------------|-------|
| Exit Phase(s) | 4, 8 |
| Preempt Override | ON |
| Delay Time | 0 |
| Ped Clear Trough Yellow | N |
| Terminate Phases | N |
| Track Clear Reserve | Y |
| Entrance Walk | 255* |
| Entrance Ped Clear | 255* |
| Entrance Min Green | 1 |
| Entrance Yellow Change | 25.5* |
| Entrance Red Clear | 25.5* |
| Track Clear Min Green | 10 |
| Track Clear Yellow Change | 25.5* |
| Track Clear Red Clear | 25.5* |
| Min Dwell Time | 10 |
| Exit Yellow Change | 25.5* |
| Exit Red Clear | 25.5* |

* Allows normal phase times to be used.

LEGEND

- | PROPOSED | EXISTING |
|----------|----------|
| | N/A |
| | N/A |
| | N/A |
| | |
| | |
| | |
| | |
| | |
| | |
| N/A | |
| N/A | |
| N/A | |
| N/A | |
| (A) | (A) |
| (B) | (B) |

Signal Upgrade

| | | | |
|--|--|---|--------------------------------|
| | <p>Winslow Street at Blount Street</p> | | |
| | <p>DIV 06 CUMBERLAND COUNTY FAYETTEVILLE</p> <p>PLAN DATE: NOVEMBER 2016 REVIEWED BY: RWT</p> <p>PREPARED BY: RTP REVIEWED BY:</p> | <p>DocuSigned by: Richard T Pate 11/21/2016</p> | |
| <p>Hatch Mott MacDonald</p> <p>P.O. Box 700, Fayetteville, NC 27526</p> <p>www.hatchmott.com</p> | <p>Scale: 1" = 30'</p> | | <p>SIG. INVENTORY NO. 0029</p> |