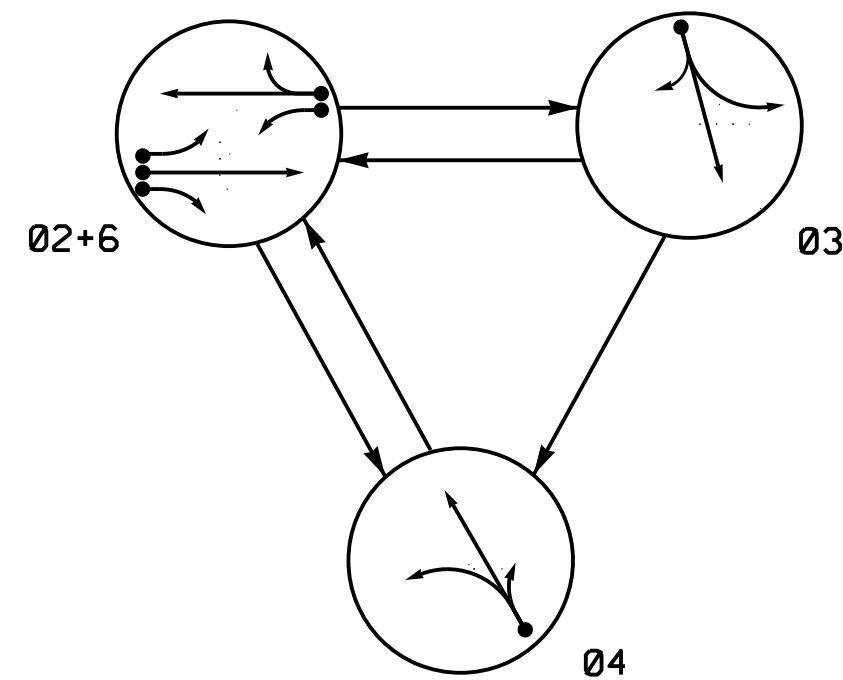


PHASING DIAGRAM



| SIGNAL FACE | PHASE   |     |     |       |
|-------------|---------|-----|-----|-------|
|             | 0 2 + 6 | 0 3 | 0 4 | FLASH |
| 21,22,23    | G       | R   | R   | Y     |
| 31          | R       | G   | R   | R     |
| 32,33       | R       | G   | R   | R     |
| 41          | R       | R   | G   | R     |
| 42          | R       | R   | G   | R     |
| 61,62,63    | G       | R   | R   | Y     |

| LOOP & DETECTOR UNIT INSTALLATION CHART |           |                            |      |          |                      |                |            |              |         |           |             |             |          |
|---|-----------|----------------------------|------|----------|----------------------|----------------|------------|--------------|---------|-----------|-------------|-------------|----------|
| NAZTEC APOGEE SOFTWARE 2070 CONTROLLER  |           |                            |      |          |                      |                |            |              |         |           |             |             |          |
| INDUCTIVE LOOPS                         |           |                            |      |          | DETECTOR PROGRAMMING |                |            |              |         |           |             |             |          |
| LOOP                                    | SIZE (FT) | DISTANCE FROM STOPBAR (FT) | URNS | NEW LOOP | PHASE                | SWITCH (PHASE) | DELAY TIME | STRETCH TIME | CALLING | EXTENSION | ADDED INIT. | SYSTEM LOOP | NEW CARD |
| 2A                                      | 6X6       | 70                         | *    | *        | 2                    | -              | -          | -            | Y       | Y         | -           | -           | -        |
| 2B                                      | 6X6       | 70                         | *    | *        | 2                    | -              | -          | -            | Y       | Y         | -           | -           | -        |
| 2C                                      | 6X40      | 0                          | *    | *        | 2                    | -              | 5.0        | -            | Y       | Y         | -           | -           | -        |
| 3A                                      | 6X40      | 0                          | *    | *        | 3                    | -              | 3.0        | -            | Y       | Y         | -           | -           | -        |
| 3B                                      | 6X40      | +5                         | *    | *        | 3                    | -              | 15.0       | -            | Y       | Y         | -           | -           | -        |
| 4A                                      | 6X40      | 0                          | *    | *        | 4                    | -              | 3.0        | -            | Y       | Y         | -           | -           | -        |
| 4B                                      | 6X15      | +5                         | *    | *        | 4                    | -              | 15.0       | -            | Y       | Y         | -           | -           | -        |
| 6A                                      | 6X40      | 70                         | *    | *        | 6                    | -              | -          | -            | Y       | Y         | -           | -           | -        |
| 6B                                      | 6X40      | 0                          | *    | *        | 6                    | -              | 5.0        | -            | Y       | Y         | -           | -           | -        |

3 Phase Fully Actuated (Greensboro Signal System)

NOTES

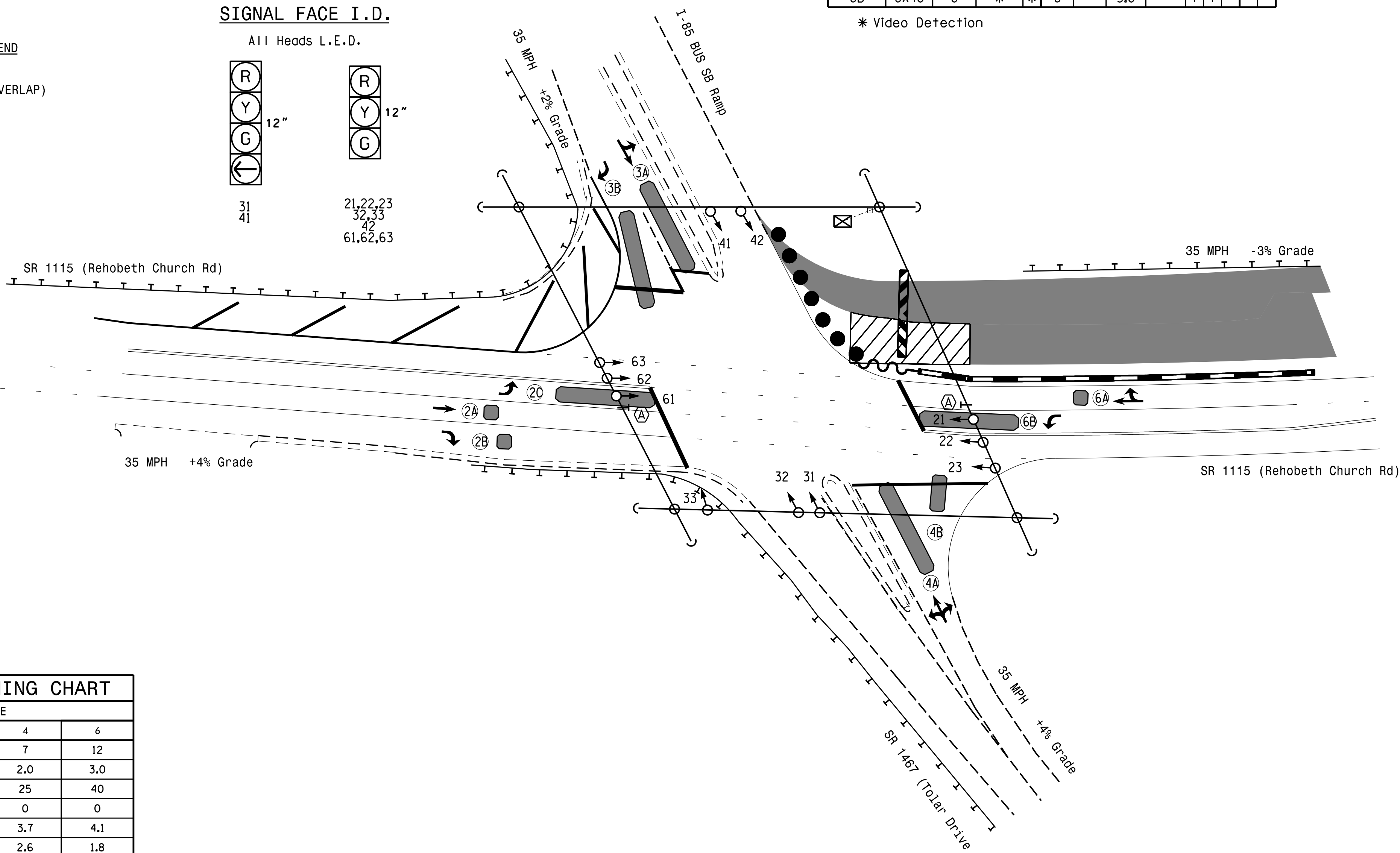
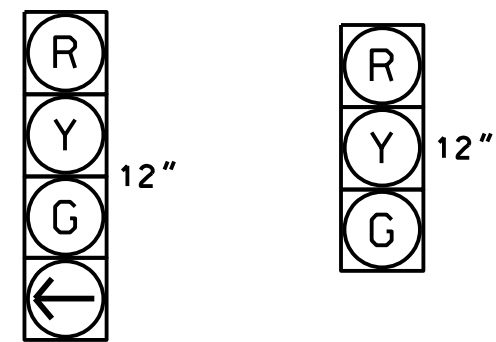
1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Abandon all existing loops.
4. Set all detector units to presence mode.
5. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
6. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
7. This intersection uses video detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
8. Program all signal heads for the same approach to flash concurrently during flashing operation.

PHASING DIAGRAM DETECTION LEGEND

- ← ● → DETECTED MOVEMENT
- ← ○ → UNDETECTED MOVEMENT (OVERLAP)
- ← ○ → UNSIGNALIZED MOVEMENT
- ← ○ → PEDESTRIAN MOVEMENT

SIGNAL FACE I.D.

All Heads L.E.D.



| FEATURE                 | PHASE      |     |     |            |
|-------------------------|------------|-----|-----|------------|
|                         | 2          | 3   | 4   | 6          |
| Min Green *             | 12         | 7   | 7   | 12         |
| Gap, Extension *        | 3.0        | 2.0 | 2.0 | 3.0        |
| Maximum Green 1 *       | 40         | 25  | 25  | 40         |
| Maximum Green 2 *       | 0          | 0   | 0   | 0          |
| Yellow Clear            | 3.6        | 3.6 | 3.7 | 4.1        |
| Red Clear               | 1.7        | 2.6 | 2.6 | 1.8        |
| Walk *                  | -          | -   | -   | -          |
| Pedestrian Clear        | -          | -   | -   | -          |
| Added Initial *         | -          | -   | -   | -          |
| Maximum Initial *       | -          | -   | -   | -          |
| Time Before Reduction * | -          | -   | -   | -          |
| Time To Reduce *        | -          | -   | -   | -          |
| Minimum Gap             | -          | -   | -   | -          |
| Recall Mode             | MIN RECALL | -   | -   | MIN RECALL |
| Lock Calls              | YES        | NO  | NO  | YES        |
| Dual Entry              | -          | -   | -   | -          |
| Simultaneous Gap        | ON         | ON  | ON  | ON         |

\* 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.

LEGEND

- | PROPOSED   | EXISTING                                     |
|--|--|
| ○ → Traffic Signal Head                            | ● → N/A                                      |
| ○ → Modified Signal Head                           | ○ → N/A                                      |
| □ → Sign   | □ → N/A                                      |
| □ → Pedestrian Signal Head With Push Button & Sign | □ → N/A                                      |
| ○ → Signal Pole with Guy                           | ○ → N/A                                      |
| ○ → Signal Pole with Sidewalk Guy                  | ○ → N/A                                      |
| ○ → Video Detection Zone                           | ○ → N/A                                      |
| □ → Controller & Cabinet                           | □ → N/A                                      |
| □ → Junction Box                                   | □ → N/A                                      |
| □ → 2-in Underground Conduit                       | □ → N/A                                      |
| N/A → Right of Way                                 | N/A → Right of Way                           |
| ● → Directional Arrow                              | ● → Directional Arrow                        |
| ● → Construction Zone Drums                        | ● → Construction Zone Drums                  |
| ■ → Construction Zone                              | ■ → Construction Zone                        |
| Ⓐ → "Left Turn Yield on Green" Sign (R10-12)       | Ⓐ → "Left Turn Yield on Green" Sign (R10-12) |

Signal Upgrade - Temporary 1

|   |  |   |  |
|---|--|---|--|
| <p>MOTT MACDONALD<br/>7621 Purfoy Road<br/>Suite 115<br/>Fuquay-Varina, NC 27526<br/>www.mottmac.com<br/>License No. F-0669</p> | <p>Russell W. Thompson<br/>Professional Engineer<br/>Seal 032711</p> | SR 1115 (Rehobeth Church Road) at I-85 Bus. SB Ramp/ SR 1467 (Tolar Drive)  |  |
|   |  | Division 7 Guilford Co. Greensboro<br>PLAN DATE: January 2023 REVIEWED BY: BAL<br>PREPARED BY: INA REVIEWED BY: RWT | DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED<br>SEAL<br>Russell W. Thompson<br>SIGNATURE DATE<br>SIG. INVENTORY NO. 07-202611 |