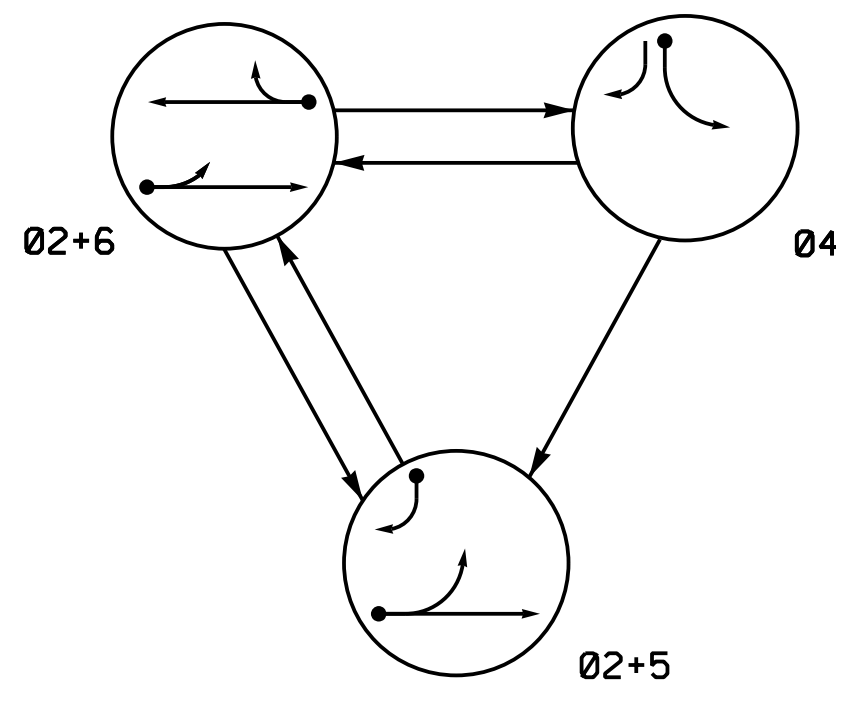


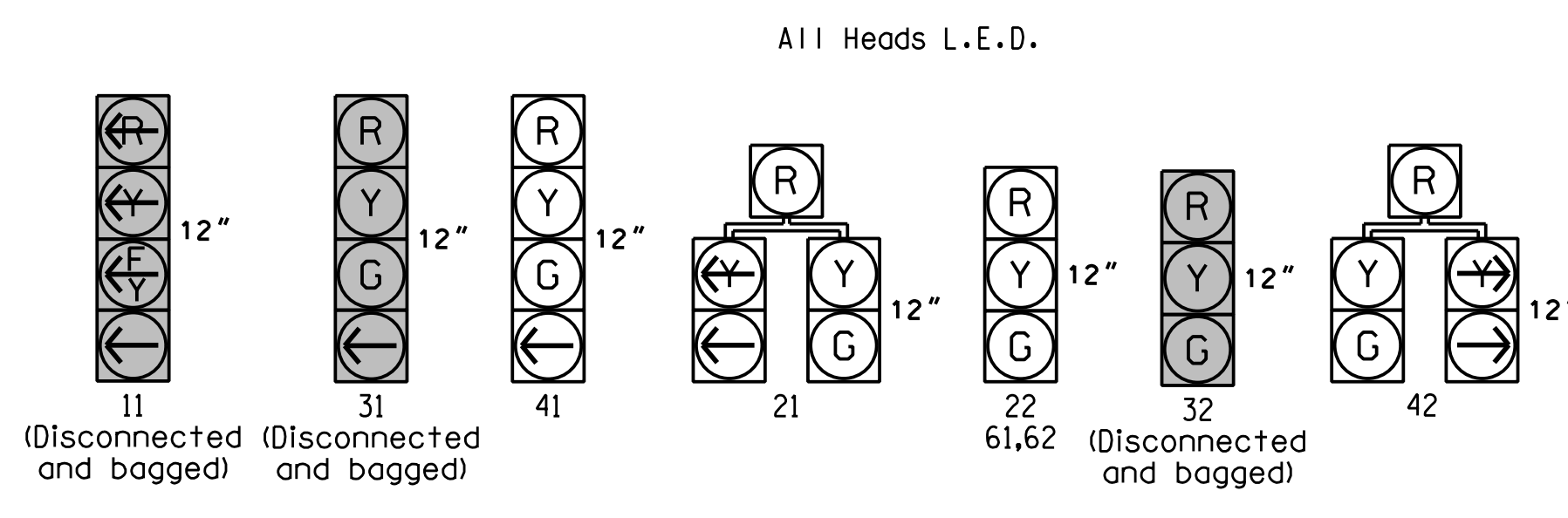
**PHASING DIAGRAM**



**TABLE OF OPERATION**

| SIGNAL FACE | PHASE |      |    |       |
|-------------|-------|------|----|-------|
|             | 02+5  | 02+6 | 04 | FLASH |
| 21          | G     | G    | R  | Y     |
| 22          | G     | G    | R  | Y     |
| 41          | R     | R    | G  | R     |
| 42          | R     | R    | G  | R     |
| 61,62       | R     | G    | R  | Y     |

**SIGNAL FACE I.D.**



**MAXTIME DETECTOR INSTALLATION CHART**

| ZONE | SIZE (FT) | DISTANCE FROM STOPBAR (FT) | DETECTOR |          | PROGRAMMING |            |             |                |               |      |        |   |
|------|-----------|----------------------------|----------|----------|-------------|------------|-------------|----------------|---------------|------|--------|---|
|      |           |                            | TURNS    | NEW LOOP | CALL PHASE  | DELAY TIME | EXTEND TIME | EXTEND INITIAL | ADDED INITIAL | CALL | RECALL |   |
| 2A*  | 6X6       | 70                         | *        | *        | 2           | -          | -           | X              | -             | X    | -      | * |
| 4A*  | 6X40      | 0                          | *        | *        | 4           | 3          | -           | X              | -             | X    | -      | * |
| 5A*  | 6X40      | 0                          | *        | *        | 5           | 15         | -           | X              | -             | X    | -      | * |
| 5B*  | 6X40      | 0                          | *        | *        | 5           | 15         | -           | X              | -             | X    | -      | * |
| 6A*  | 6X6       | 70                         | *        | *        | 6           | -          | -           | X              | -             | X    | -      | * |

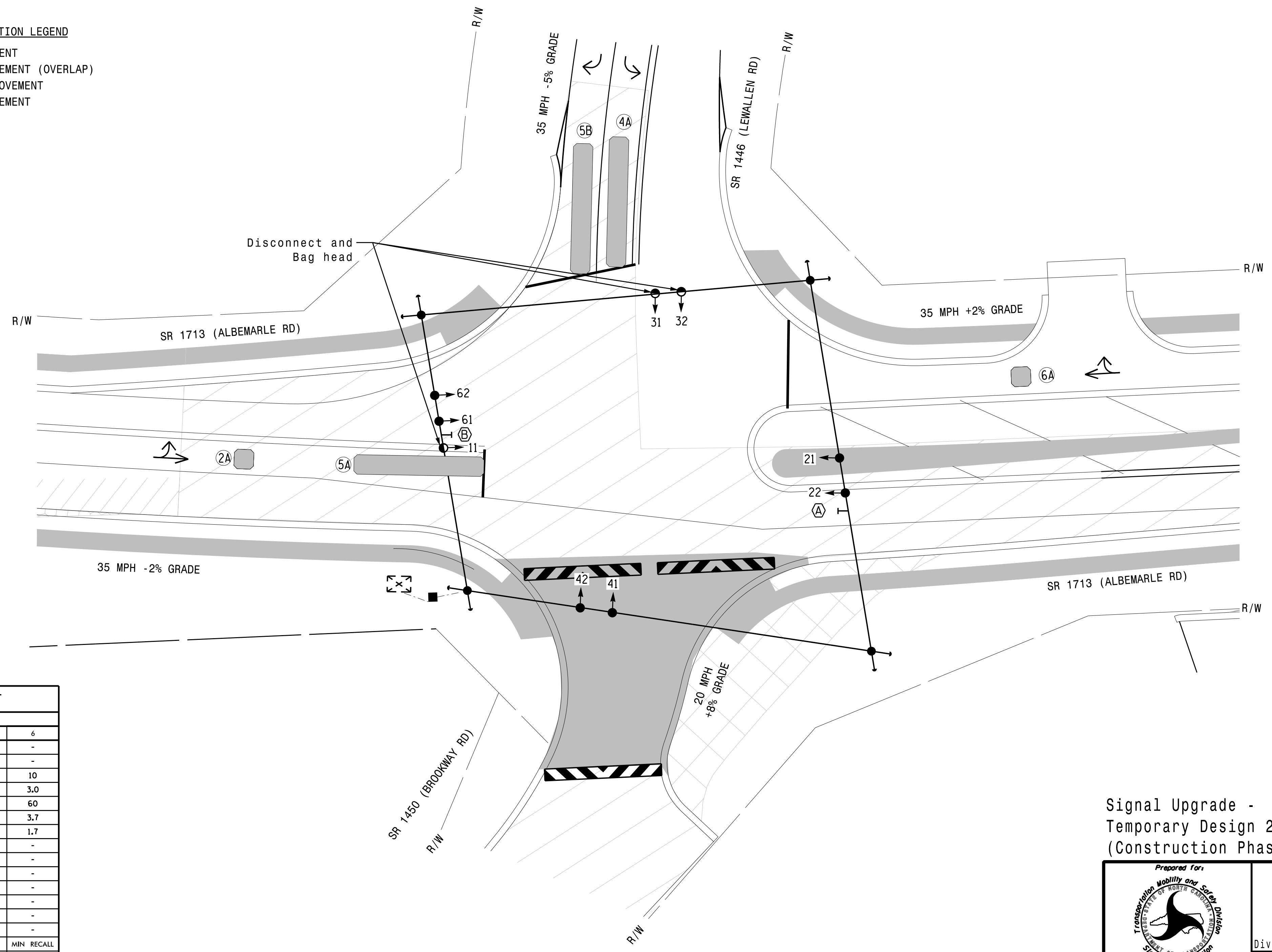
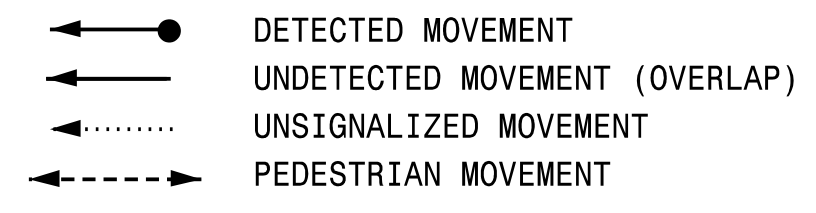
\*Microwave Detection

3 Phase Fully Actuated (Isolated)

**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. Phase 5 may be lagged.
4. Reposition existing signal heads numbered 21, 22, 61, and 62.
5. Disconnect and bag existing signal heads 11, 31 and 32.
6. Set all detector units to presence mode.
7. This intersection uses multi-zone microwave detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.

**PHASING DIAGRAM DETECTION LEGEND**



**MAXTIME TIMING CHART**

| FEATURE                 | PHASE      |     |     |            |
|-------------------------|------------|-----|-----|------------|
|                         | 2          | 4   | 5   | 6          |
| Walk *                  | -          | -   | -   | -          |
| Ped Clear *             | -          | -   | -   | -          |
| Min Green               | 10         | 7   | 7   | 10         |
| Passage *               | 3.0        | 2.0 | 2.0 | 3.0        |
| Max I *                 | 60         | 30  | 20  | 60         |
| Yellow Change           | 4.0        | 3.1 | 3.0 | 3.7        |
| Red Clear               | 1.7        | 2.9 | 2.1 | 1.7        |
| Added Initial *         | -          | -   | -   | -          |
| Maximum Initial *       | -          | -   | -   | -          |
| Time Before Reduction * | -          | -   | -   | -          |
| Time To Reduce *        | -          | -   | -   | -          |
| Minimum Gap             | -          | -   | -   | -          |
| Advance Walk            | -          | -   | -   | -          |
| Non Lock Detector       | -          | X   | X   | -          |
| Vehicle Recall          | MIN RECALL | -   | -   | MIN RECALL |
| Dual Entry              | -          | -   | -   | -          |

\* 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 |
|----------|----------|
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|          |          |
|          |          |

Signal Upgrade -  
Temporary Design 2  
(Construction Phase IIA)

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

**HNTB** HNTB NORTH CAROLINA, P.C.  
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SR 1713 (Albemarle Rd) at SR 1446 (Lewallen Rd) and SR 1450 (Brookway Rd)

Division 8 Randolph County Asheboro

PLAN DATE: August 2021 REVIEWED BY: A.D. Klinksiek

PREPARED BY: N.K. Vianich REVIEWED BY: N.R. Simmons

750 N. Greenfield Pkwy, Garner, NC 27525

SEAL NORTH CAROLINA PROFESSIONAL ENGINEER W.T. SIMMONS SEAL 031464

DocuSigned by: *Natasha R. Simmons* 5/21/2024

SIGNATURE DATE

SIG. INVENTORY NO. 08-0246T2