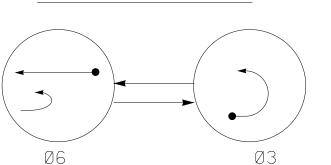
PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

UNSIGNALIZED MOVEMENT

UNDETECTED MOVEMENT (OVERLAP)

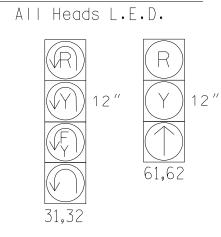
DETECTED MOVEMENT

 $<\!\!\!<\!\!\!--\!\!\!>$  PEDESTRIAN MOVEMENT

|                | PHASE  |            |       |
|----------------|--------|------------|-------|
| SIGNAL<br>FACE | Ø<br>3 | Ø6         | TUDUI |
| 31,32          |        | FY         | (Y)   |
| 61,62          | R      | $\uparrow$ | Υ     |

TABLE OF OPERATION

SIGNAL FACE I.D.



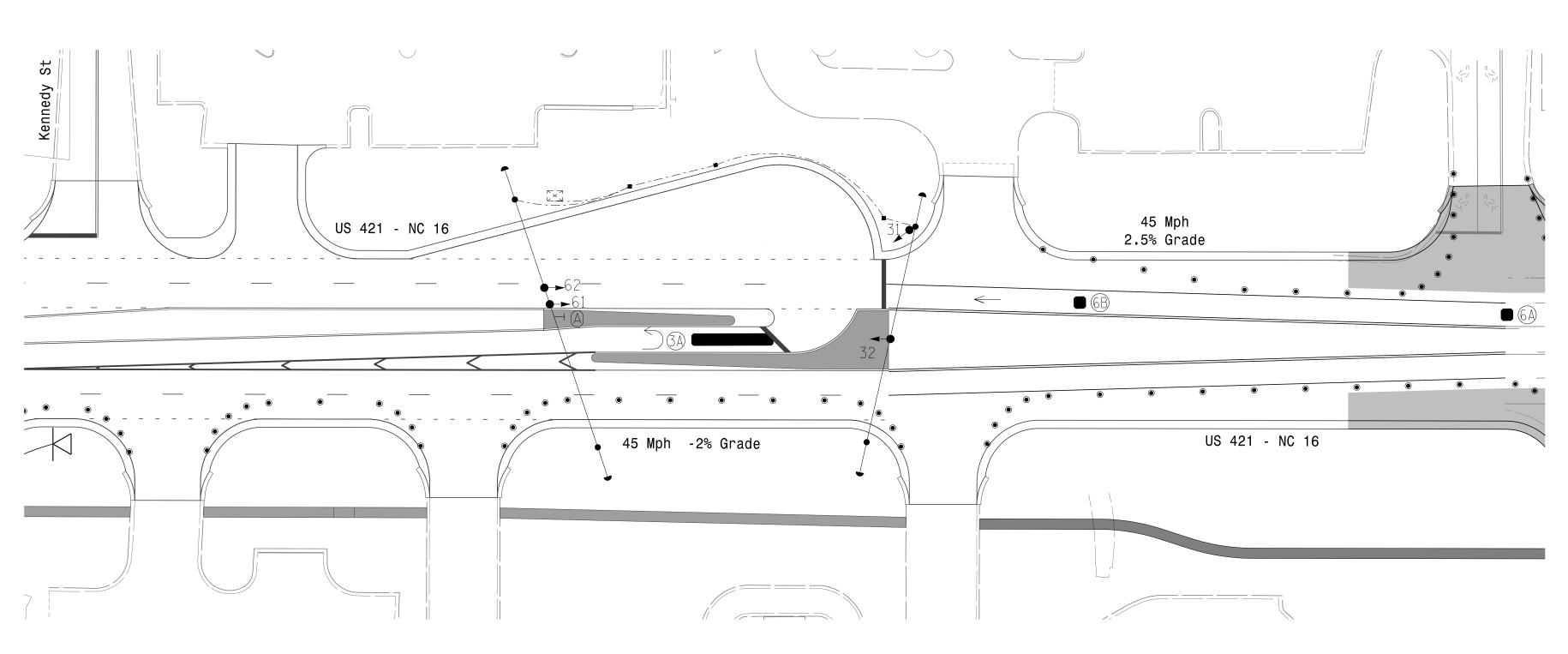
| MAXTIME DETECTOR INSTALLATION CHART |              |                                     |       |             |               |               |                |        |               |      |                    |          |
|-------------------------------------|--------------|-------------------------------------|-------|-------------|---------------|---------------|----------------|--------|---------------|------|--------------------|----------|
| DETECTOR                            |              |                                     |       | PROGRAMMING |               |               |                |        |               |      |                    |          |
| LOOP                                | SIZE<br>(FT) | DISTANCE<br>FROM<br>STOPBAR<br>(FT) | TURNS | NEW LOOP    | CALL<br>PHASE | DELAY<br>TIME | EXTEND<br>TIME | EXTEND | ADDED INITIAL | CALL | DELAY DURING GREEN | NEW CARD |
| 3A                                  | *            | 0                                   | *     | *           | 3             | 15.0          | -              | Χ      | -             | Χ    | -                  | *        |
| 6A                                  | *            | 300                                 | *     | *           | 6             | -             | 1.6            | Χ      | -             | Χ    | -                  | *        |
| 6B                                  | *            | 90                                  | *     | *           | 6             | -             | -              | Χ      | -             | Χ    | -                  | *        |

**\***Video Detection Zone

2 Phase Fully Actuated (Isolated)

## **NOTES**

- Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
- Do not program signal for late night operation unless otherwise directed by the Engineer.
- 3. Set all detector units to presence mode.
- 4. This intersection uses video detection. Install detectors according to the manufacturer's instructions to schieve the desitred detection.
- Refer to Pavement Marking Plans for proposed stop bar locations.



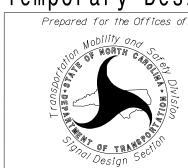
## LEGEND

| MAXTIME T               | IMING | CHART      |  |  |
|-------------------------|-------|------------|--|--|
| FEATURE                 | PHASE |            |  |  |
| FEATURE                 | 3     | 6          |  |  |
| Walk *                  | _     | _          |  |  |
| Ped Clear *             | _     | _          |  |  |
| Min Green               | 7     | 12         |  |  |
| Passage *               | 2.0   | 2.0        |  |  |
| Max 1 *                 | 30    | 60         |  |  |
| Yellow Change           | 3.0   | 4.3        |  |  |
| Red Clear               | 3.3   | 1.0        |  |  |
| Added Initial *         | _     | _          |  |  |
| Maximum Initial *       | _     | _          |  |  |
| Time Before Reduction * | _     | _          |  |  |
| Time To Reduce *        | _     | _          |  |  |
| Minimum Gap             | _     | _          |  |  |
| Advance Walk            | _     | _          |  |  |
| Non Lock Detector       | Х     | _          |  |  |
| Vehicle Recall          | _     | MIN RECALL |  |  |
| Dual Entry              | _     | _          |  |  |

\* These values may be field adjusted. Do not adjust Mi 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.

| <u>PROPOSED</u>   |   | <u>EXISTING</u>                    |
|---|---|------------------------------------|
|   | Curb Ramp   |                                    |
| <u> </u>  | Signal Pole with Guy                              | •                                  |
| $\bigcirc$  | Signal Pole with Sidewalk Guy                     | $lue{lue{lue{lue{lue{lue{lue{lue{$ |
| $\bigcirc \hspace{-1em} \longrightarrow \hspace{-1em} $ | Traffic Signal Head                               | • <del></del>                      |
|   | Sign  | $\overline{}$                      |
| <b>\( \)</b>  | Pedestrian Signal Head<br>With Push Button & Sign | <b>•</b>                           |
|   | Inductive Loop Detector                           |                                    |
|   | Video Detection Zone                              | N/A                                |
|   | Construction Zone                                 | N/A                                |
|   | Controller & Cabinet                              |                                    |
|   | Junction Box                                      |                                    |
|   | 2-in Underground Conduit                          |                                    |
|   | Right of Way                                      |                                    |
| ——E——   | Temporary Construction Easement                   | N/A                                |
| $\longrightarrow$   | Directional Arrow                                 | $\longrightarrow$                  |
| $\bigcirc$  | Type II Signal Pedestal                           | •                                  |
| $\langle A \rangle$   | No Left Turn Sign (R3-2)                          |                                    |
| •   | Drum  | N/A                                |
| •   | Skinny Drum                                       | N/A                                |

Temporary Design 2 (Phase 10)



US 421-NC 16 at SR 1323 (Dancy Road)/ Lowe's Entrance East U-Turn

Divsion 11 Wilkes County Wilkesboro

PLAN DATE: May 2023 REVIEWED BY: M.L. Stygles

PLAN DATE: May 2023 REVIEWED BY: M.L. Stygles

750 N.Greenfield Pkwy.Garner.NC 27529 PREPARED BY: S.R. Chiluka REVIEWED BY: J. Ma

SCALE REVISIONS INIT. DATE



VHB Engineering NC, P.C. (C-3705) 940 Main Campus Drive, Suite 500 Raleigh, NC 27606 919.829.0328

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.

U-5312

Sig.4.3

SRChauka 5/24/2023

SIGNATURE DATE

SIG. INVENTORY NO. ||-|46872