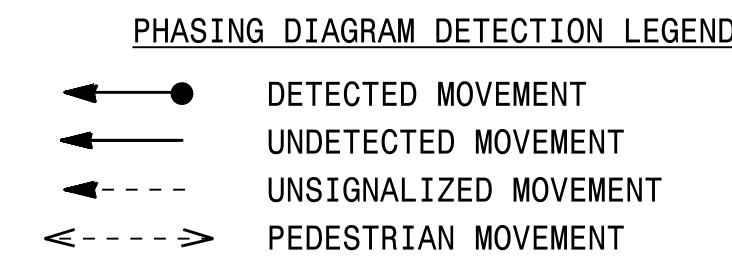
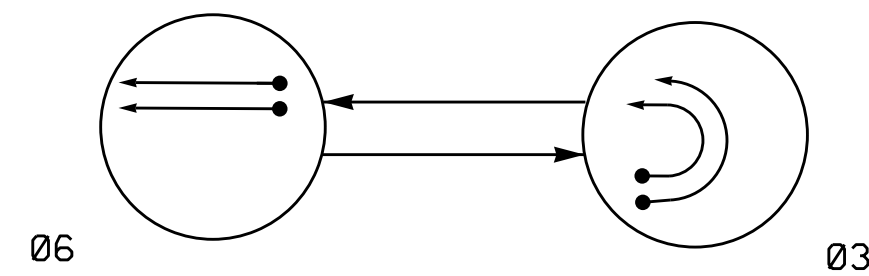
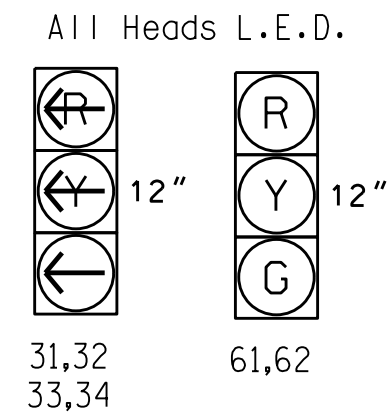


PHASING DIAGRAM



| SIGNAL FACE | PHASE |    |       |
|-------------|-------|----|-------|
|             | 03    | 06 | 03/06 |
| 31,32,33,34 | ←     | ←  | ←     |
| 61,62       | R     | G  | Y     |

SIGNAL FACE I.D.

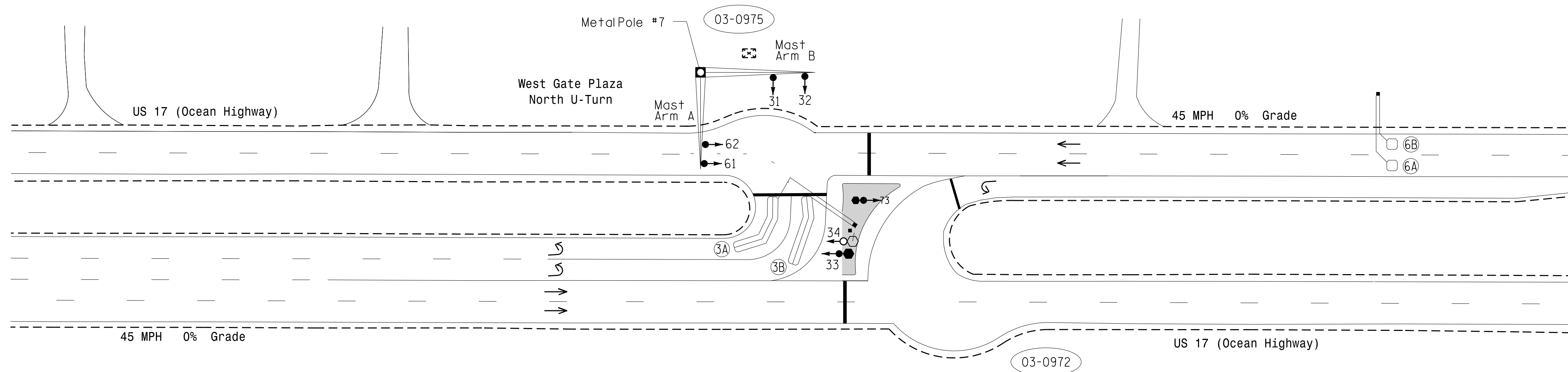


| OASIS 2070 LOOP & DETECTOR INSTALLATION CHART |           |                            |       |          |                      |         |           |                 |              |            |             |          |
|---|-----------|----------------------------|-------|----------|----------------------|---------|-----------|-----------------|--------------|------------|-------------|----------|
| LOOP  | SIZE (FT) | DISTANCE FROM STOPBAR (FT) | TURNS | NEW LOOP | DETECTOR PROGRAMMING |         |           |                 |              |            | SYSTEM LOOP | NEW CARD |
|   |           |                            |       |          | PHASE                | CALLING | EXTENSION | FULL TIME DELAY | STRETCH TIME | DELAY TIME |             |          |
| 3A  | 6X40      | 0                          | 2-4-2 | Y        | 3                    | Y       | Y         | -               | -            | -          | -           | -        |
| 3B  | 6X40      | 0                          | 2-4-2 | Y        | 3                    | Y       | Y         | -               | -            | -          | -           | -        |
| 6A  | 6X6       | 300                        | 4     | Y        | 6                    | Y       | Y         | -               | -            | -          | -           | -        |
| 6B  | 6X6       | 300                        | 4     | Y        | 6                    | Y       | Y         | -               | -            | -          | -           | -        |

2 Phase Fully Actuated  
US 17 (Ocean Highway) - Leland Superstreet  
D03-12 Leland

NOTES

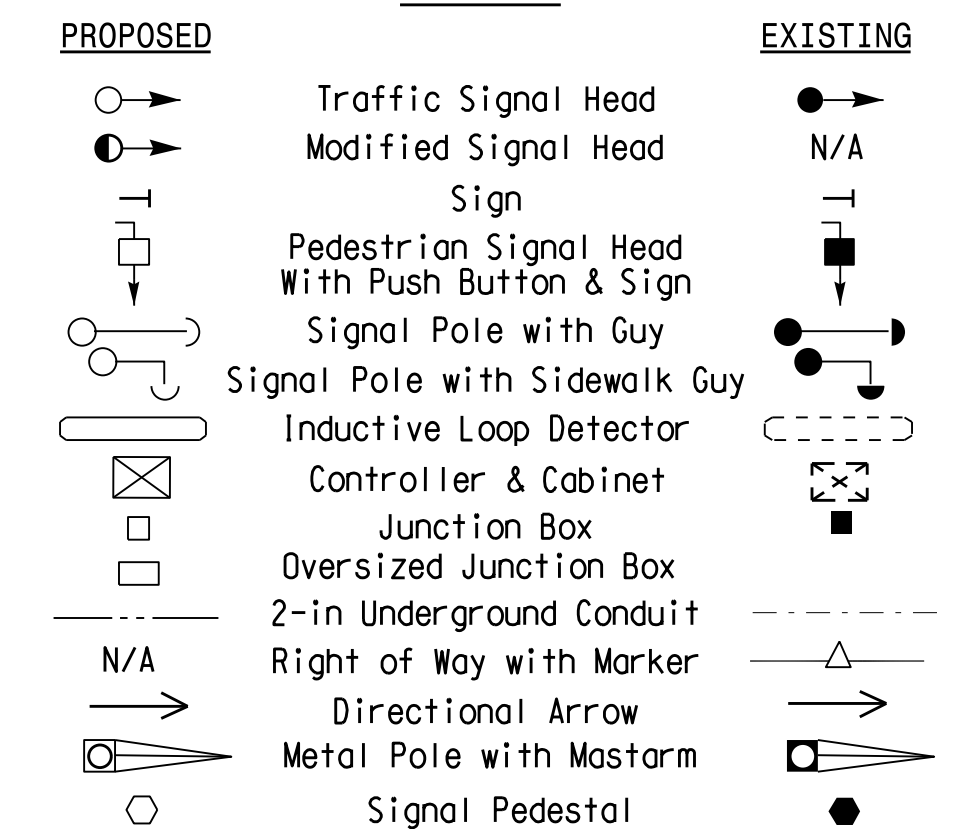
- Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Set all detector units to presence mode.
- Renumber existing heads 51,52,53 and 54 as 31,32,33, and 34, respectively.
- Renumber existing loops 5A and 5B as 3A and 3B, respectively.
- In the event of loop replacement, refer to the current ITS and Signals Design Manual and submit a Plan of Record to the Signal Design Section.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Signal System data: Controller Asset # 0975.



| FEATURE                 | PHASE |            |
|-------------------------|-------|------------|
|                         | 3     | 6          |
| Min Green 1 *           | 7     | 12         |
| Extension 1 *           | 2.0   | 6.0        |
| Max Green 1 *           | 30    | 90         |
| Yellow Clearance        | 3.0   | 4.5        |
| Red Clearance           | 2.3   | 1.1        |
| Walk 1 *                | -     | -          |
| Don't Walk 1            | -     | -          |
| Seconds Per Actuation * | -     | 1.5        |
| Max Variable Initial *  | -     | 34         |
| Time Before Reduction * | -     | 15         |
| Time To Reduction *     | -     | 50         |
| Minimum Gap             | -     | 3.0        |
| Recall Mode             | -     | MIN RECALL |
| Vehicle Call Memory     | -     | YELLOW     |
| Dual Entry              | -     | -          |
| Simultaneous Gap        | ON    | ON         |

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

LEGEND



Signal Upgrade

Prepared in the Offices of:  
  
 TRANSPORTATION MOBILITY AND SAFETY SOLUTIONS, INC.  
 750 N. Greenfield Pkwy, Garner, NC 27529

US 17 (Ocean Highway) at West Gate North U-Turn

Division 3 Brunswick County Leland

PLAN DATE: October 2021 REVIEWED BY: MEL

PREPARED BY: Jeff Spence REVIEWED BY:

REVISIONS: INIT. DATE

SCALE: 1" = 40'

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL  
 NORTH CAROLINA PROFESSIONAL ENGINEER  
 MACHAN E. LEBLANC  
 SEAL 042608  
 DATE 10/26/2021  
 SIG. INVENTORY NO. 03-0975