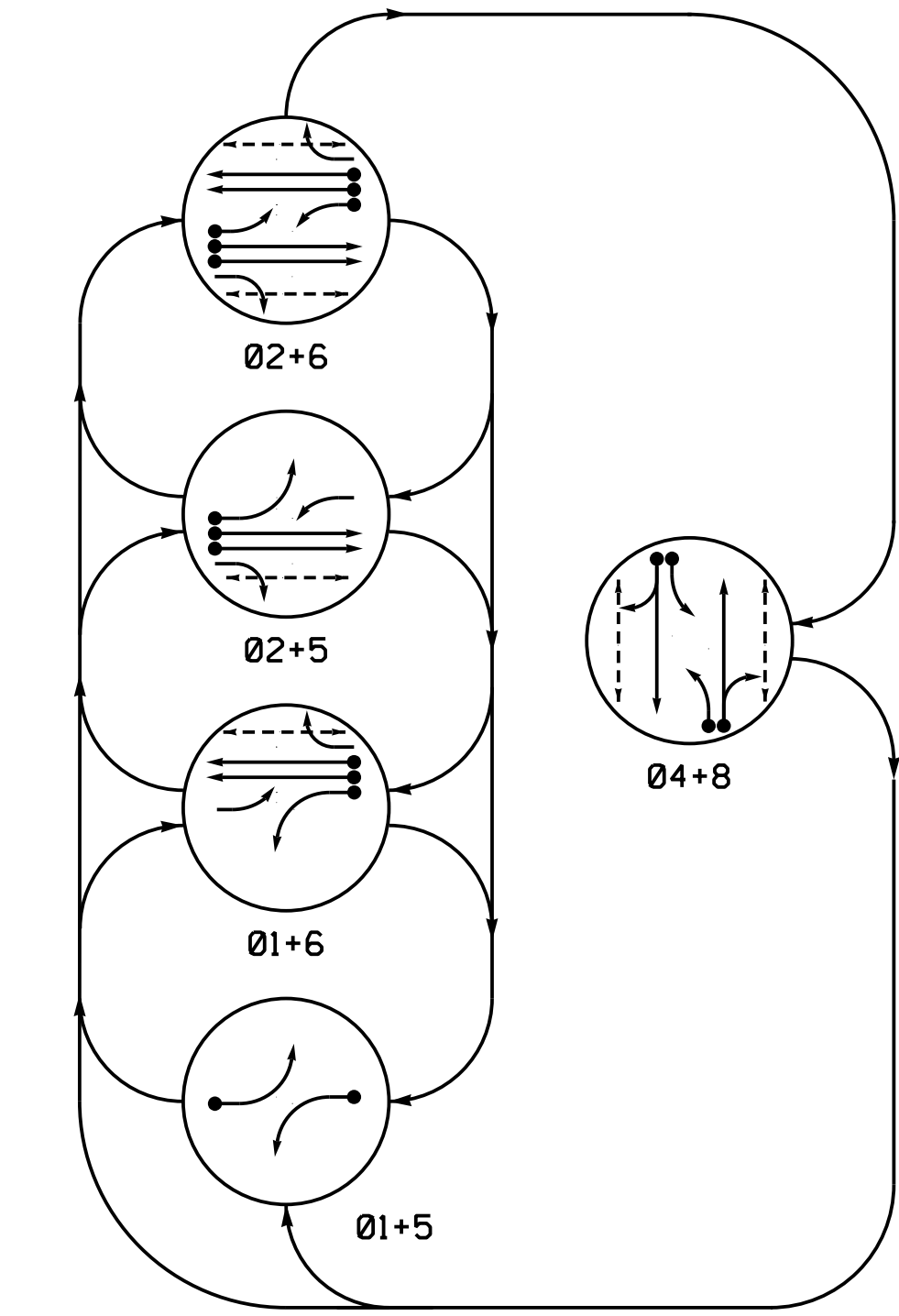
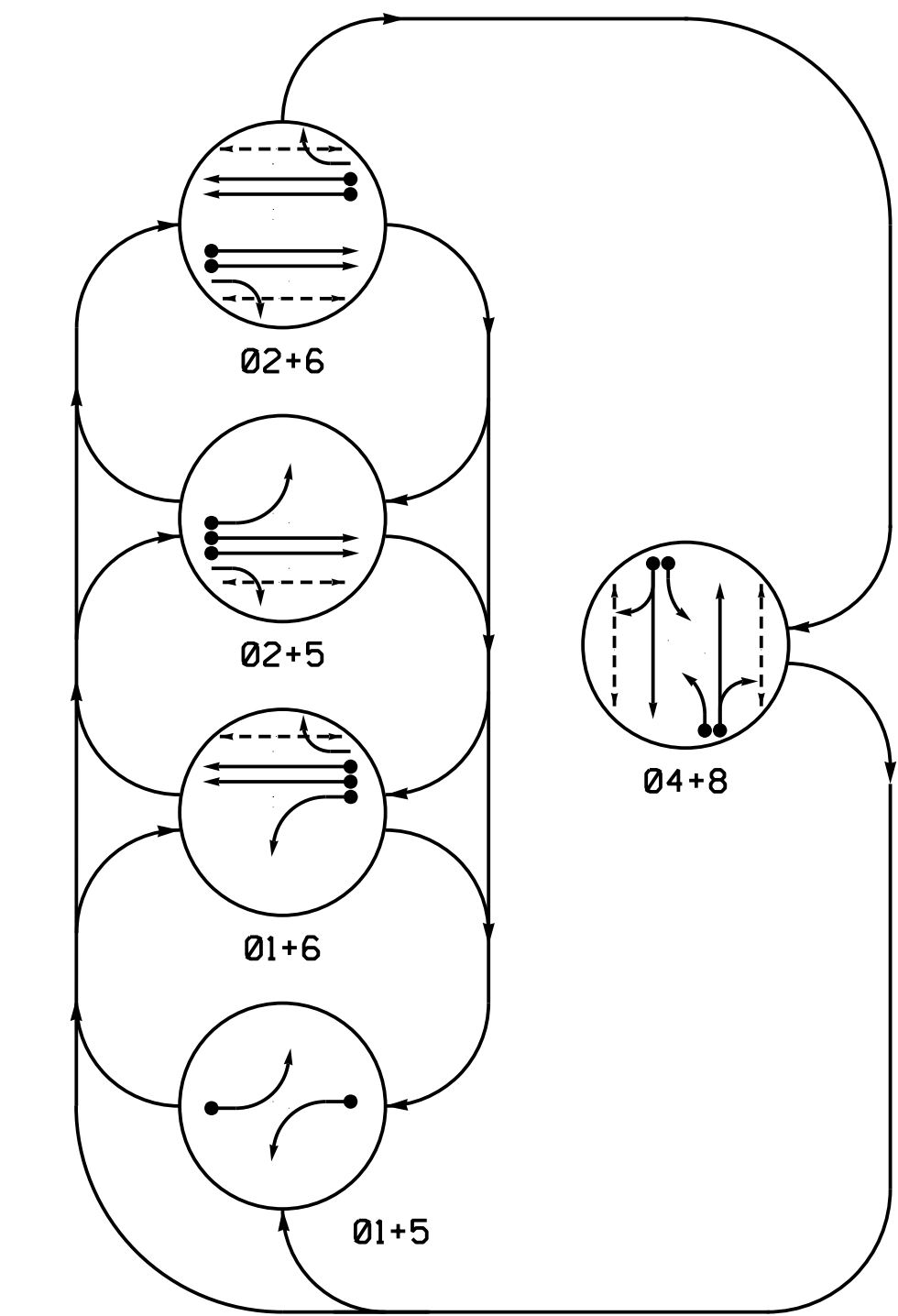


DEFAULT PHASING DIAGRAM



ALTERNATE PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

DEFAULT PHASING TABLE OF OPERATION table with columns for SIGNAL FACE and PHASE (01+5, 02+5, 04+8, F, L, E, W, B, R, Y).

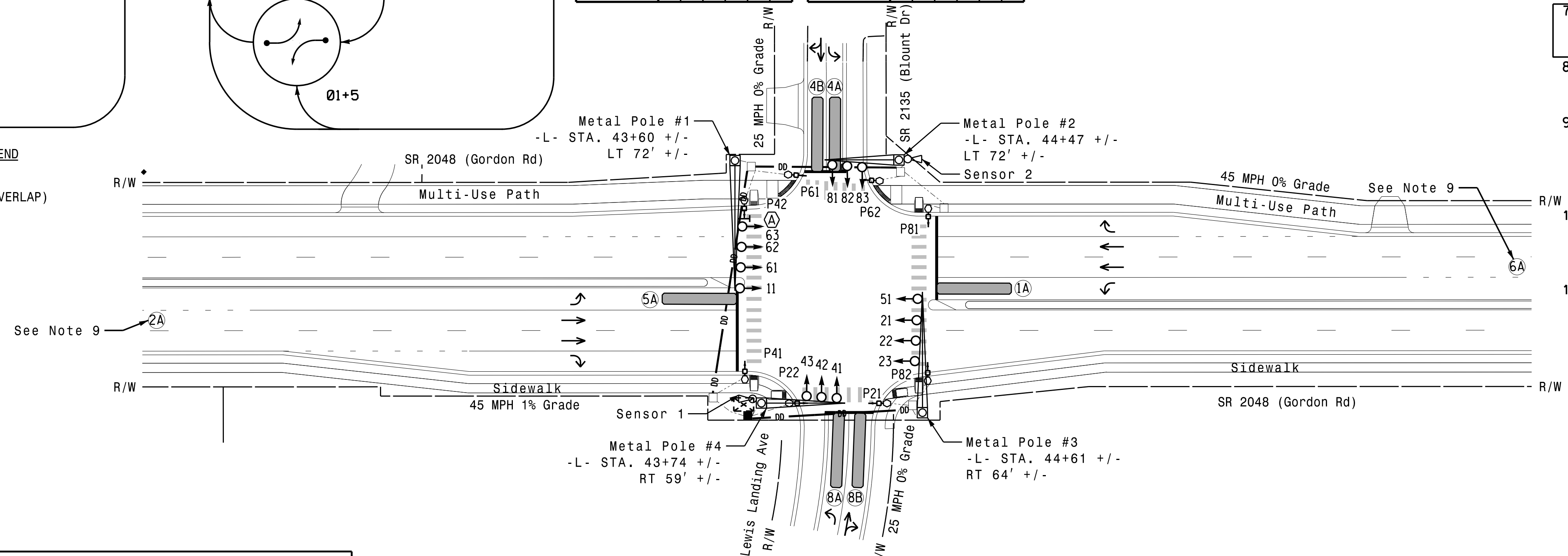
ALTERNATE PHASING TABLE OF OPERATION table with columns for SIGNAL FACE and PHASE (01+5, 02+5, 04+8, F, L, E, W, B, R, Y).

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART table with columns for ZONE, SIZE, DISTANCE FROM STOPBAR, TURNS, NEW LOOP, PHASE, CALLING, EXTENSION, FULL TIME DELAY, STRETCH TIME, DELAY TIME, SYSTEM LOOP, NEW CARD.

* Multizone Microwave Detection
** Disable Delay During Alternate Phasing Operation.
Disable phase call for loop(s) during alternate phasing.

5 Phase Fully Actuated Wilmington Signal System

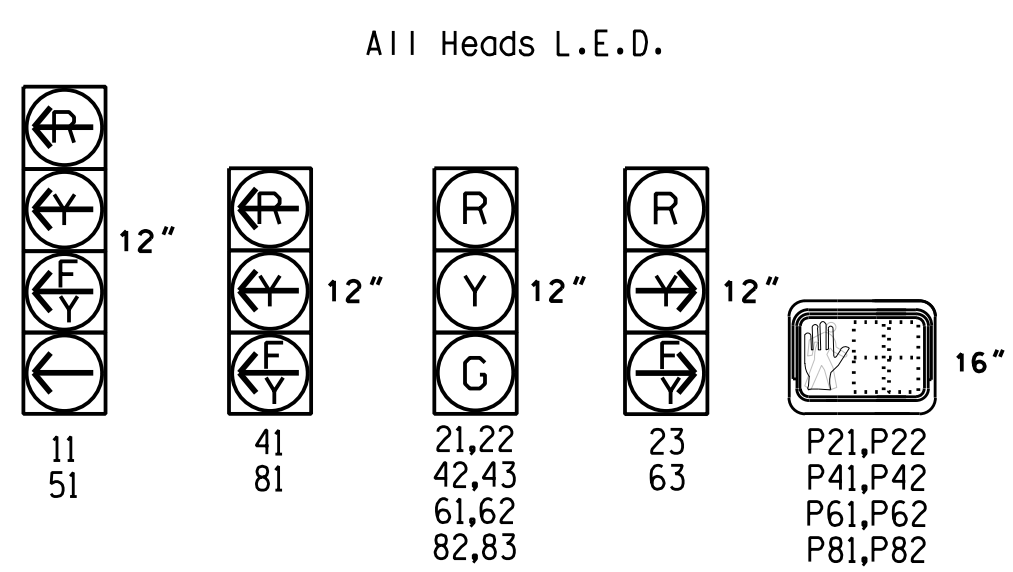
- NOTES
1. Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Phase 1 and/or phase 5 may be lagged.
4. Set all detector units to presence mode.
5. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
6. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
7. All pedestrian pushbuttons shall be located in the field by the Division Traffic Engineer before installation.
8. The Division (City) Traffic Engineer will determine the hours of use for each phasing plan.
9. This intersection uses multizone microwave detection. Install the detectors according to the manufacturer's instructions to achieve the desired detection.
10. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
11. Signal system data: Controller Asset #1139.



LEGEND table with columns for PROPOSED and EXISTING, listing symbols for Traffic Signal Head, Modified Signal Head, Sign, Pedestrian Signal Head, Signal Pole with Guy, Signal Pole with Sidewalk Guy, Microwave Detection Zone, Out of Pavement Detector, Controller & Cabinet, Junction Box, 2-in Underground Conduit, Right of Way, Directional Arrow, Directional Drill, Metal Pole with Mastarm, Type II Signal Pedestal, Curb Ramp, and Right Arrow "ONLY" Sign (R3-5R).

OASIS 2070 TIMING CHART table with columns for FEATURE and PHASE (1, 2, 4, 5, 6, 8), listing timing values for Min Green, Extension, Max Green, Yellow Clearance, Red Clearance, Red Revert, Walk, Don't Walk, Advanced Walk, Seconds Per Actuation, Max Variable Initial, Time Before Reduction, Time To Reduce, Minimum Gap, Recall Mode, Vehicle Call Memory, Dual Entry, and Simultaneous Gap.

SIGNAL FACE I.D.



RADAR DETECTION SYSTEM table with columns for FUNCTION, Sensor 1, and Sensor 2, listing Channel, Phase, Direction of Travel, Detection Zone, Enable Speed, Speed Range, Enable Estimated Time of Arrival, and Estimated Time of Arrival.

* 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.

Signal Upgrade - Final Design DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED. Includes project location (SR 2048 at SR 2135/Lewis Landing Ave), date (May 2022), and professional engineer seal for N. K. Vlanich.