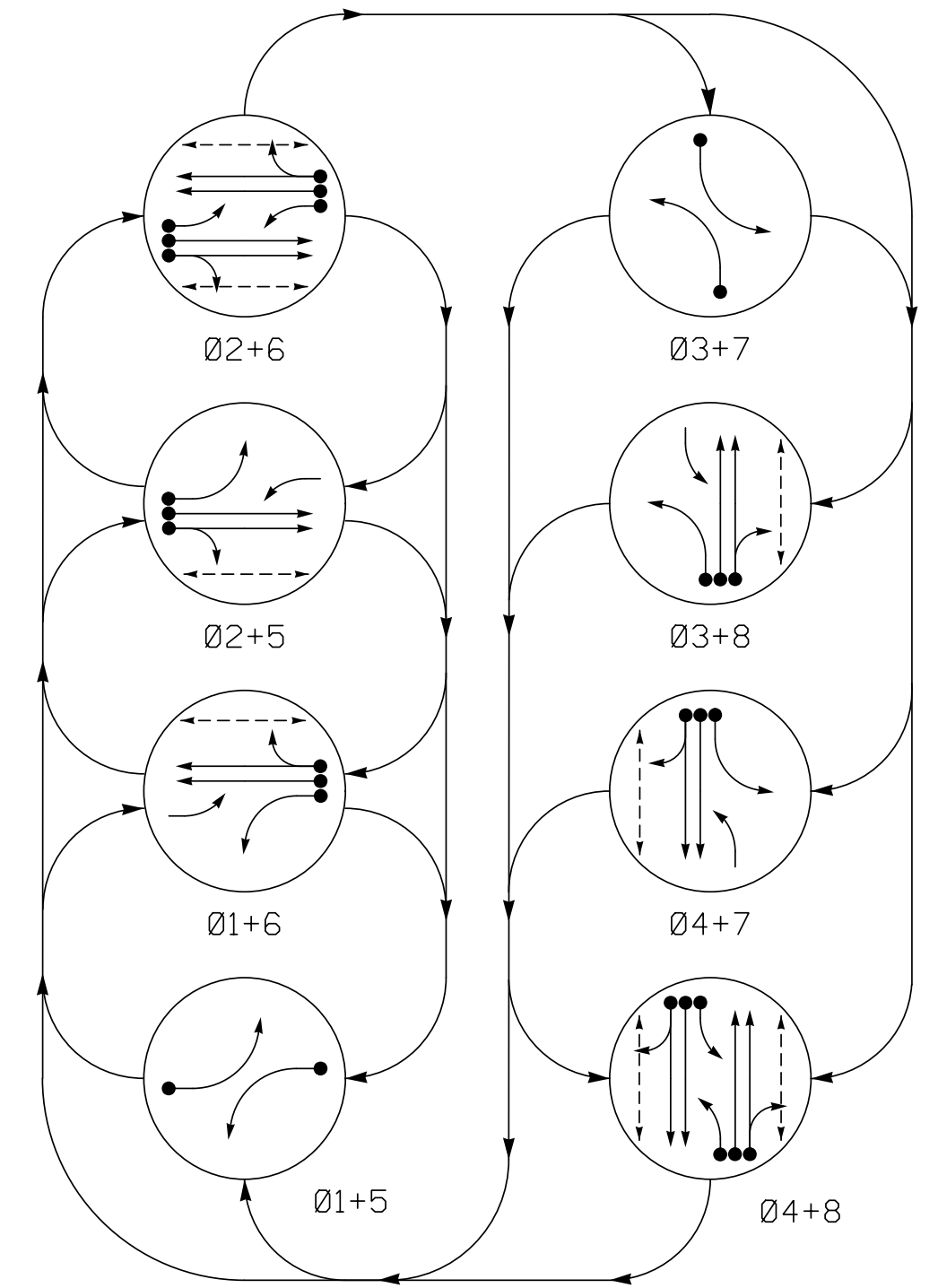
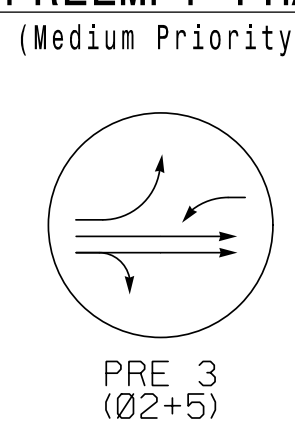


DEFAULT PHASING DIAGRAM

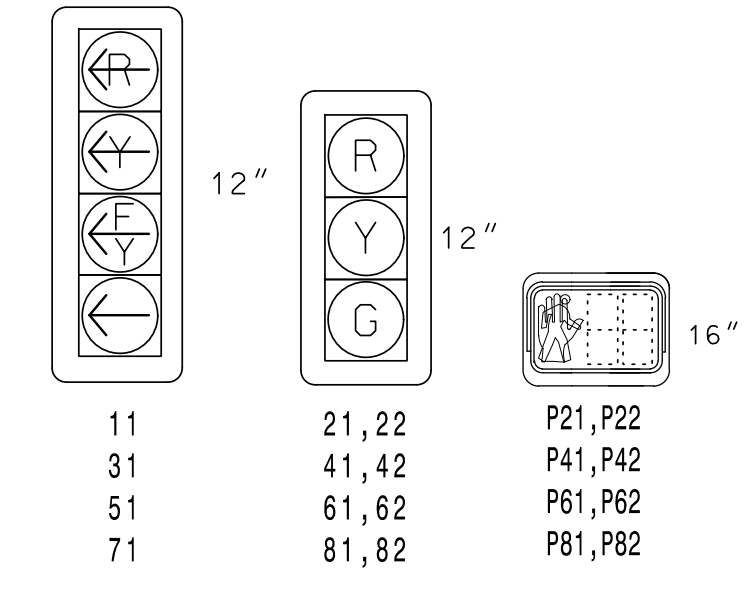


DEFAULT EV PREEMPT PHASES (Medium Priority)



SIGNAL FACE I.D.

All Heads L.E.D. All Heads have Backplates with reflective borders



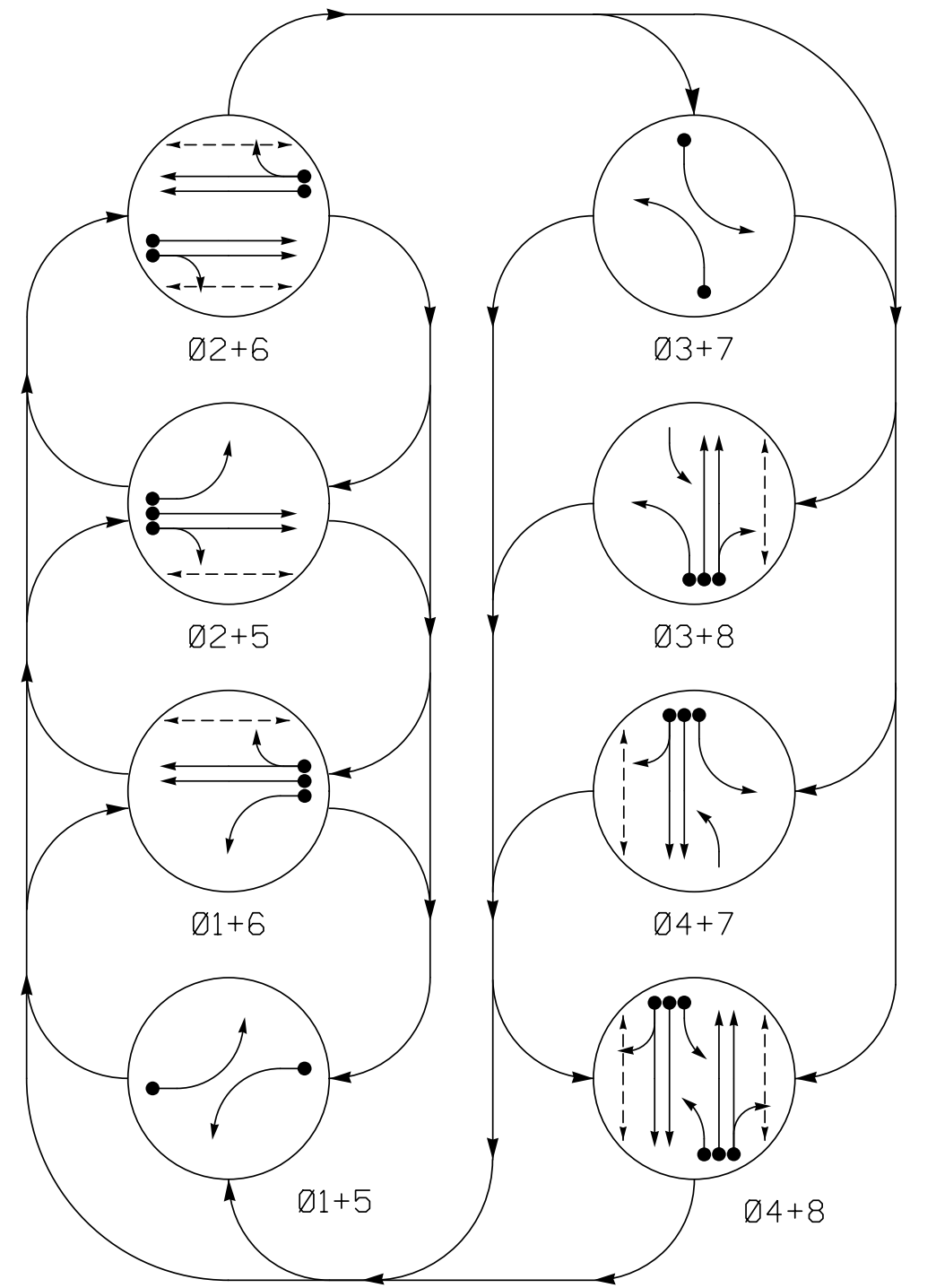
DEFAULT PHASING TABLE OF OPERATION

Table with columns: SIGNAL FACE, PHASE (Ø1+5 to Ø4+8, PRE 3, FLD, H, T, P, L, R, G, Y, DRK), and rows for signal faces 11, 21,22, 31, 41,42, 51, 61,62, 71, 81,82, P21,P22, P41,P42, P61,P62, P81,P82.

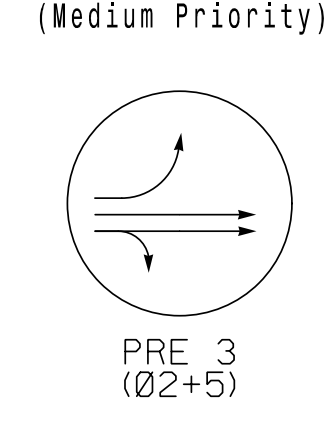
ALTERNATE PHASING TABLE OF OPERATION

Table with columns: SIGNAL FACE, PHASE (Ø1+5 to Ø4+8, PRE 3, FLD, H, T, P, L, R, G, Y, DRK), and rows for signal faces 11, 21,22, 31, 41,42, 51, 61,62, 71, 81,82, P21,P22, P41,P42, P61,P62, P81,P82.

ALTERNATE PHASING PHASING DIAGRAM



ALTERNATE EV PREEMPT PHASES (Medium Priority)

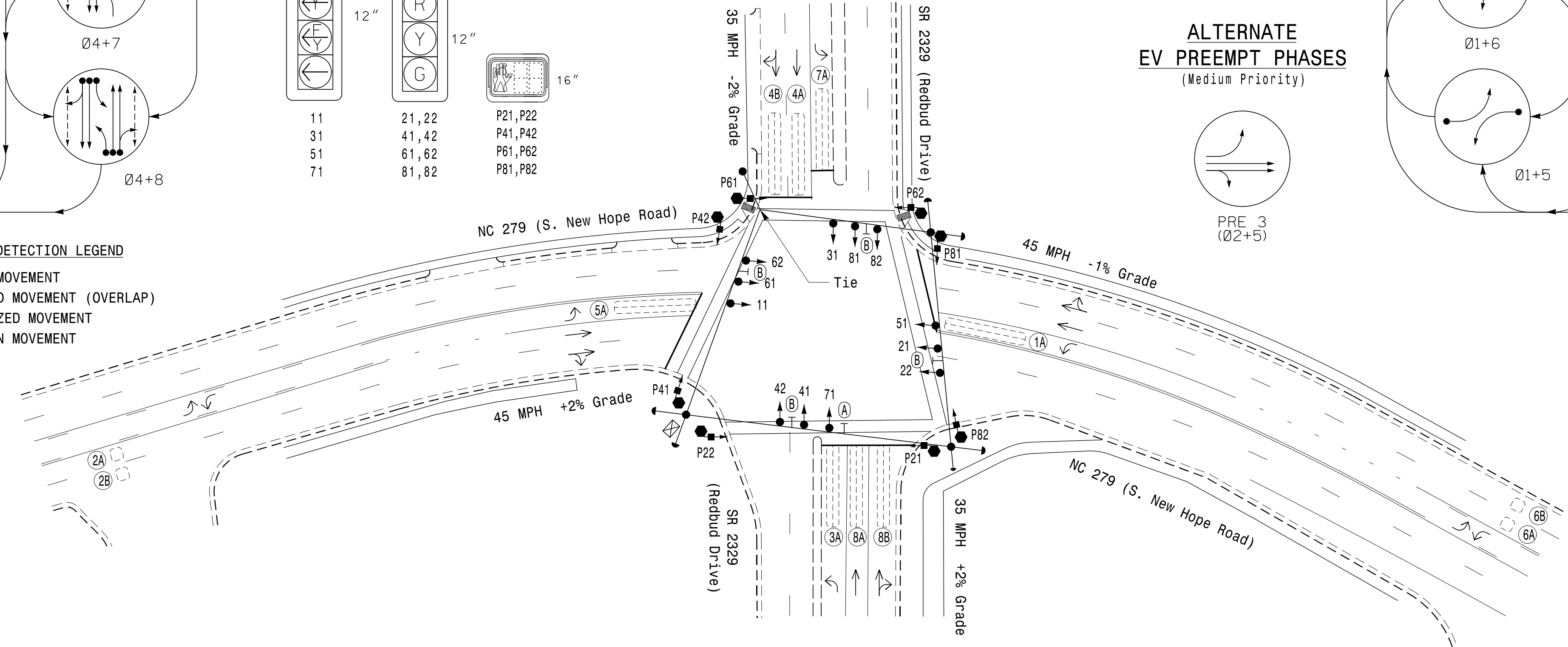
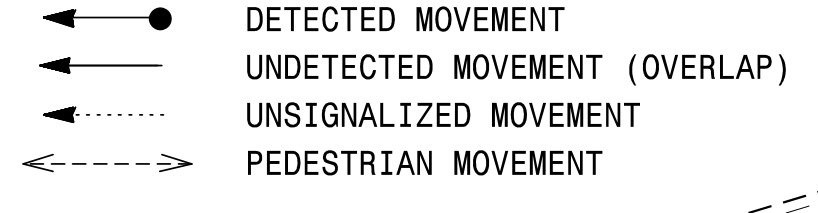


8 Phase Fully Actuated w/ Alternate Phasing Operation and Emergency Vehicle Preemption Gastonia Signal System

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. Phase 1 and/or phase 5 may be lagged.
4. Phase 3 and/or phase 7 may be lagged.
5. Set all detector units to presence mode.
6. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
7. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
8. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
9. Pavement markings are existing.
10. The City Engineer or their representative will determine the hours of use for each phasing plan.
11. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.
12. Install new cabinet on the existing cabinet foundation.
13. All new cabinets and base extenders shall be black in color. See Project Special Provisions for details.
14. Install GPS emergency preemption system per manufacturer's instructions to achieve preemption needed, as shown in phasing diagram.
15. City of system data: Controller Asset #0326.

PHASING DIAGRAM DETECTION LEGEND



TIMING CHART

Timing chart table with columns: FEATURE, PHASE (1-8), and rows for Min Green, Walk, Ped Clear, Veh. Extension, Max 1, Yellow, Red Clear, Red Revert, Actuations B4 Add, Seconds / Actuation, Max Initial, Time Before Reduction, Time To Reduce, Minimum Gap, Locking Detector, Recall Position, Dual Entry, Simultaneous Gap.

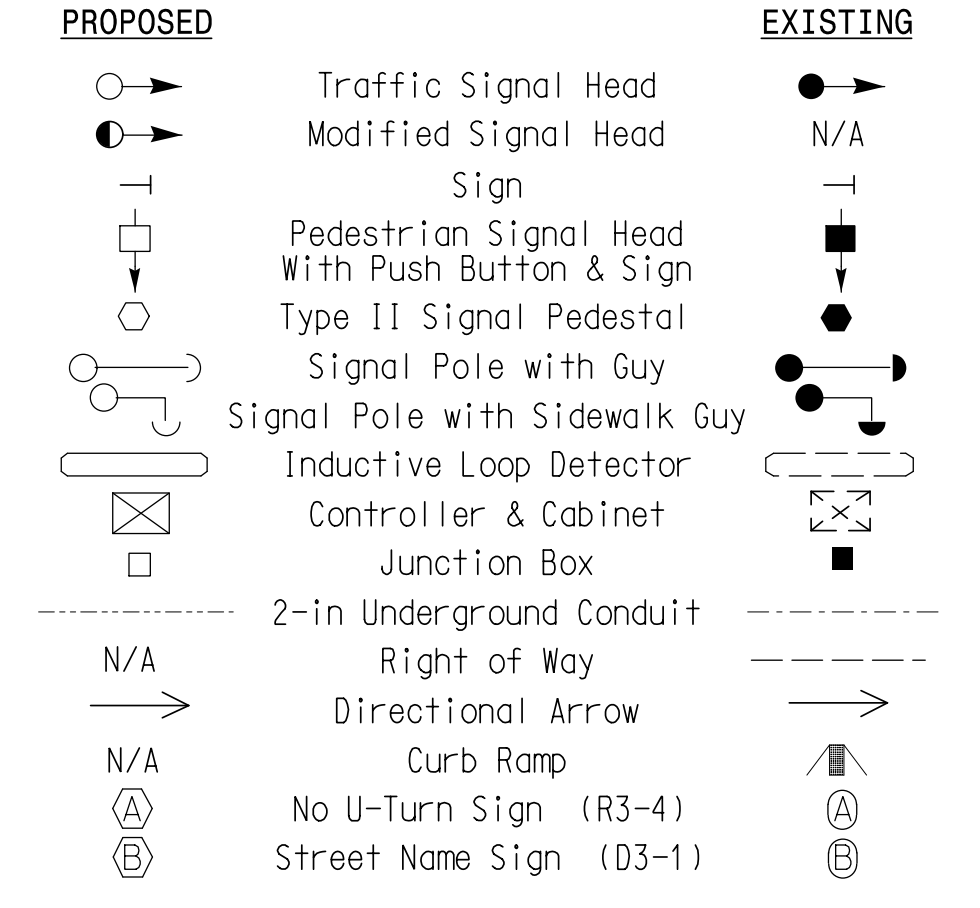
DETECTOR INSTALLATION CHART

Detector installation chart table with columns: LOOP, DETECTOR (SIZE, DISTANCE, TURNS), PROGRAMMING (PHASE, CALLING, EXTEND TIME, DELAY TIME, USE ADDED INITIAL, TYPE, LOOP, NEW CARD).

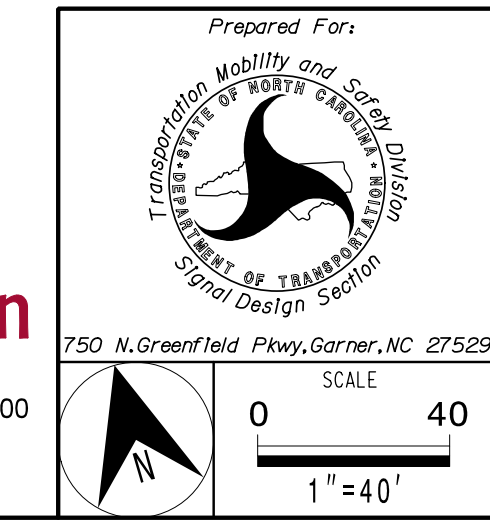
EV PREEMPT

EV Preempt table with columns: FUNCTION, PRE 3, and rows for Exit Phase(s), Preempt Override, Delay Time, Ped Clear Through Yellow, Terminate Phases, Entrance Walk, Entrance Ped Clear, Entrance Min Green, Entrance Yellow Change, Entrance Red Clear, Minimum Dwell Time, Preempt Input Extension Time, Preempt Max Time, Exit Yellow Change, Exit Red Clear.

LEGEND



Signal Upgrade



Project information block including: NC 279 (S. New Hope Road) at SR 2329 (Redbud Drive), Division 12 Gaston County, Gastonia, PLAN DATE: May 2021, REVIEWED BY: SL Phillips, PREPARED BY: CF Davis, REVIEWED BY: KP Baumann.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Professional Engineer seal for KETIN P. BAUMANN, State of North Carolina, License No. 044434, dated 3/11/2022.

PLANS PREPARED IN THE OFFICE OF: Kimley-Horn, prepared for Gaston County, NC License #0102, 421 Fayetteville Street, Suite 600, Raleigh, NC 27601, (919) 677-2000.

Vertical text on the left margin: 3/9/2022 11:16:21 AM DanHille.Cur1 \\K:\Inley-Horn.com\SE-RAL\RAL-TIP\DK-LT\5011036569 Gastonia Signal System9 Signal.kws4 - Signal Design\120326-2021.dgn