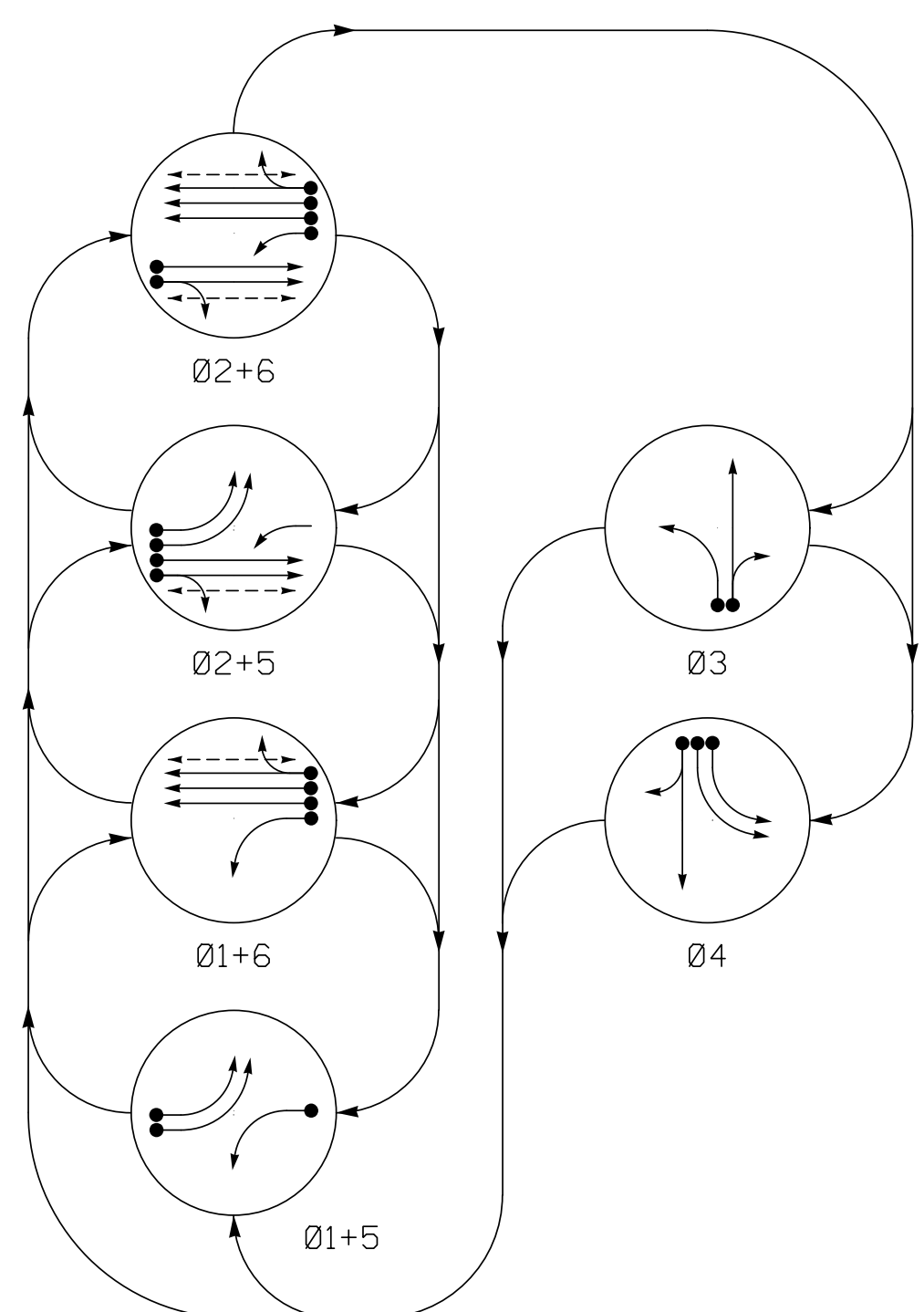
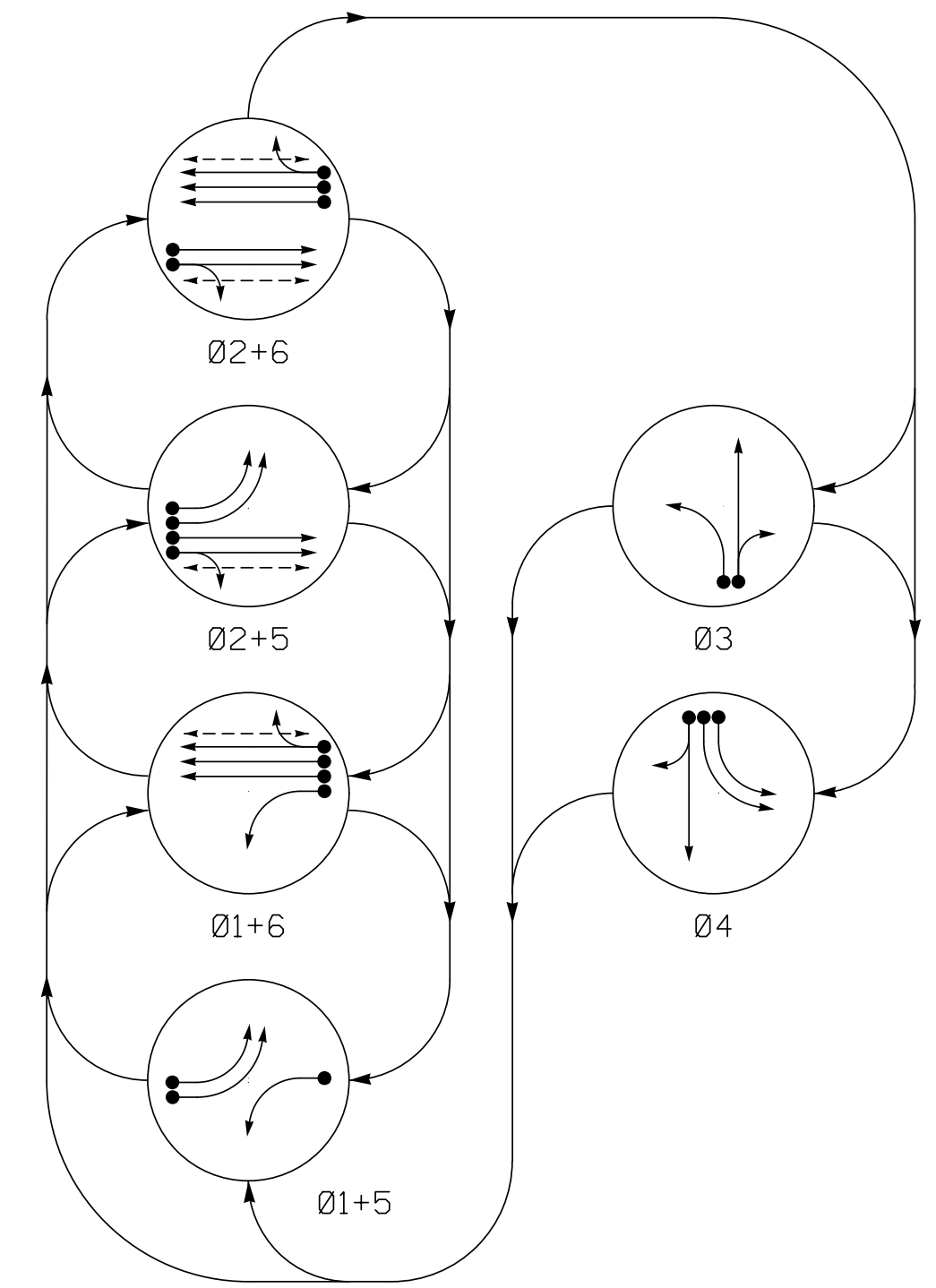


DEFAULT PHASING DIAGRAM



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 (Ø1+5, Ø2+5, Ø3, Ø4, H, S, D, B, F, T, Y). Rows include signal faces 11, 21, 22, 31, 32, 41, 42, 43, 44, 51, 52, P21, P22, P61, P62.

ALTERNATE PHASING TABLE OF OPERATION

Table with columns for SIGNAL FACE and PHASE (Ø1+5, Ø2+5, Ø3, Ø4, H, S, D, B, F, T, Y). Rows include signal faces 11, 21, 22, 31, 32, 41, 42, 43, 44, 51, 52, P21, P22, P61, P62.

DETECTOR INSTALLATION CHART

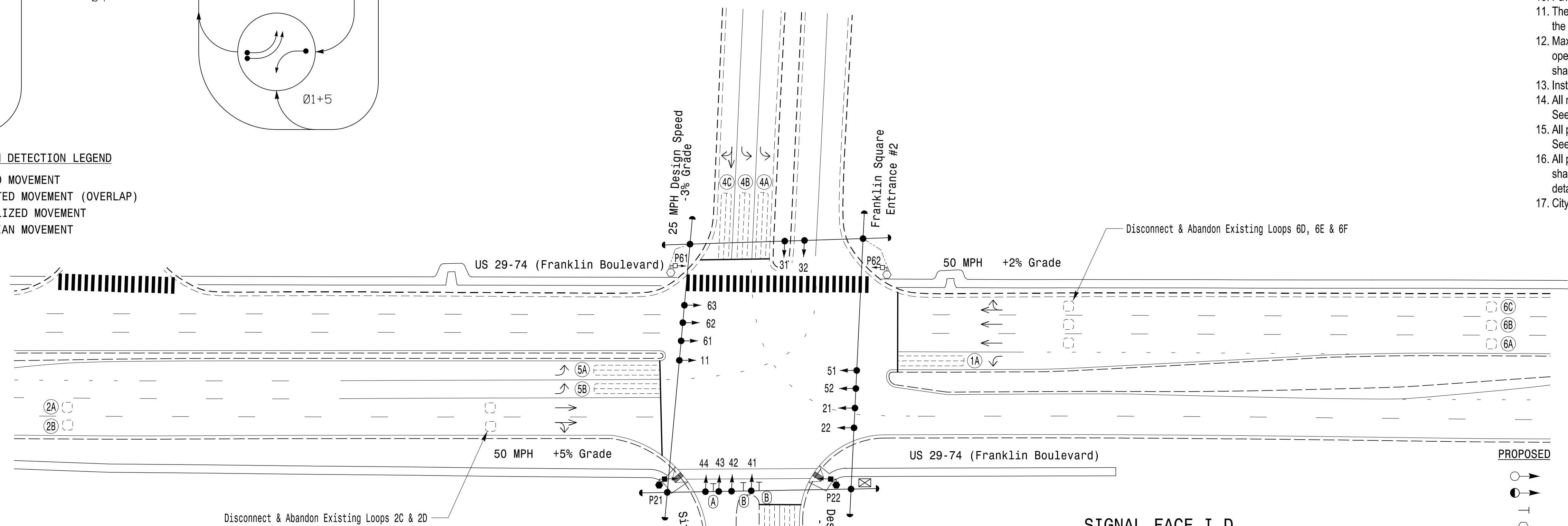
Table with columns for LOOP, SIZE (FT), DISTANCE FROM STOPBAR (FT), TURNS, NEW LOOP, PHASE, CALLING, EXTEND TIME, DELAY TIME, USE ADDED INITIAL, TYPE, LOOP SYSTEM, NEW CARD. Rows include loops 1A through 6C.

\* Disable delay during Alternate Phasing Operation.
# Disable phase call for loop during Alternate Phasing Operation.

6 Phase Fully Actuated w/ Alternate Phasing Operation 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. The order of phase 3 and phase 4 may be reversed.
5. Disconnect & abandon existing loops 2C, 2D, 6D, 6E and 6F.
6. Set all detector units to presence mode.
7. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
8. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
9. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
10. Pavement markings are existing.
11. The City Engineer or their representative will determine the hours of use for each phasing plan.
12. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.
13. Install new cabinet on the existing cabinet foundation.
14. All new cabinets and base extenders shall be black in color. See Project Special Provisions for details.
15. All proposed pedestrian signal heads shall be black in color. See Project Special Provision for details.
16. All proposed pedestrian pedestals and pushbutton posts shall be black in color. See Project Special Provisions for details.
17. City system data: Controller Asset #1401

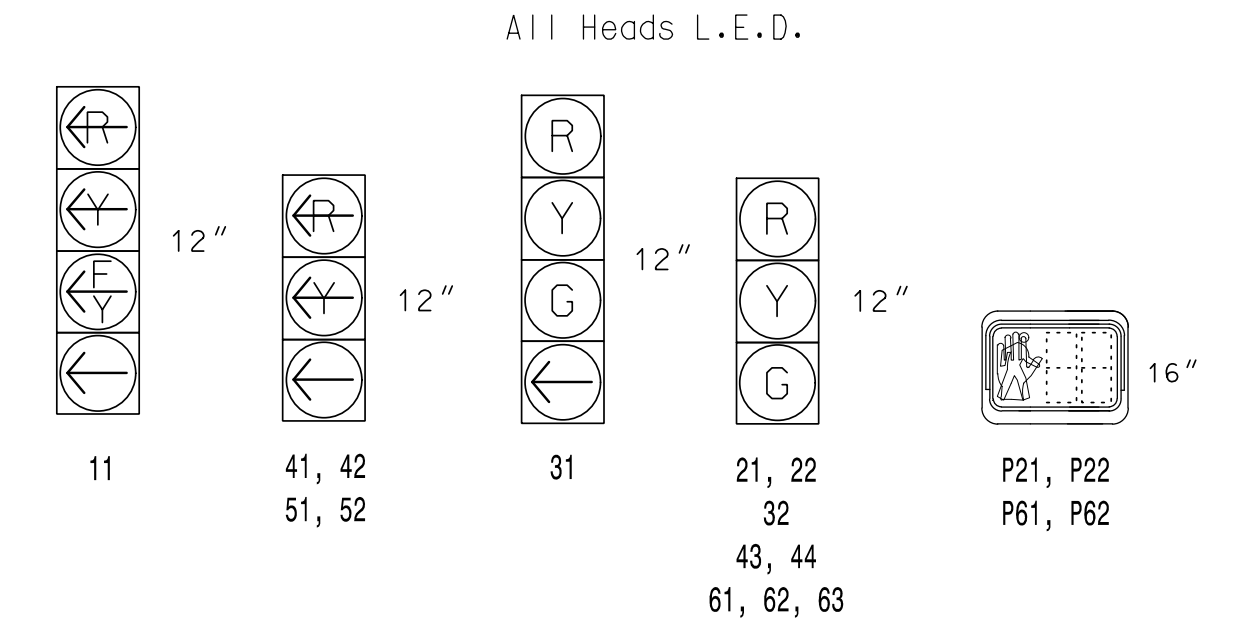


TIMING CHART

Timing chart table with columns for FEATURE and PHASE (1-6). Rows include 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.

\* 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 FACE I.D.



LEGEND

- PROPOSED: Traffic Signal Head, Modified Signal Head, Sign, Type II Signal Pedestal, Pedestrian Signal Head With Push Button & Sign, Signal Pole with Guy, Signal Pole with Sidewalk Guy, Inductive Loop Detector, Controller & Cabinet, Junction Box, 2-in Underground Conduit.
EXISTING: N/A, Right of Way, Directional Arrow, Wheelchair Ramp, Street Name Sign (D3-1), Left Turn "ONLY" Sign (R3-5L).

Signal Upgrade

Project information block including Kimley-Horn logo, project title 'US 29-74 (Franklin Blvd.) at Franklin Square Entrance #2/ Site Access', plan date (May 2021), and engineer signatures (SL Phillips, KP Baumann).

3/9/2022 11:12:44 AM Dan1ellb.Curr1 \\K:\mley-horn.com\SE-RAL\MRAL\_T\15K011036569\_Gastonia Signal System\Signal\KWS4 - Signal Design\121401-2021.dgn