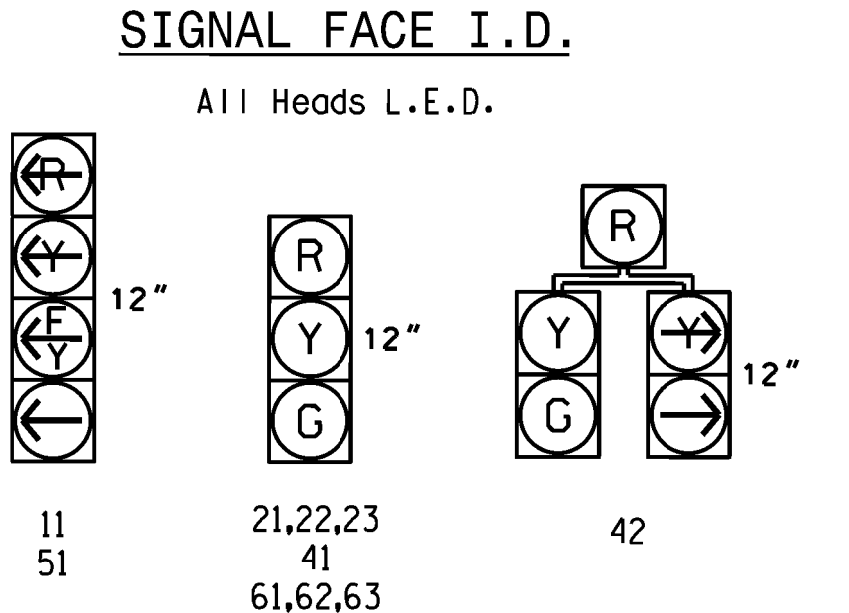


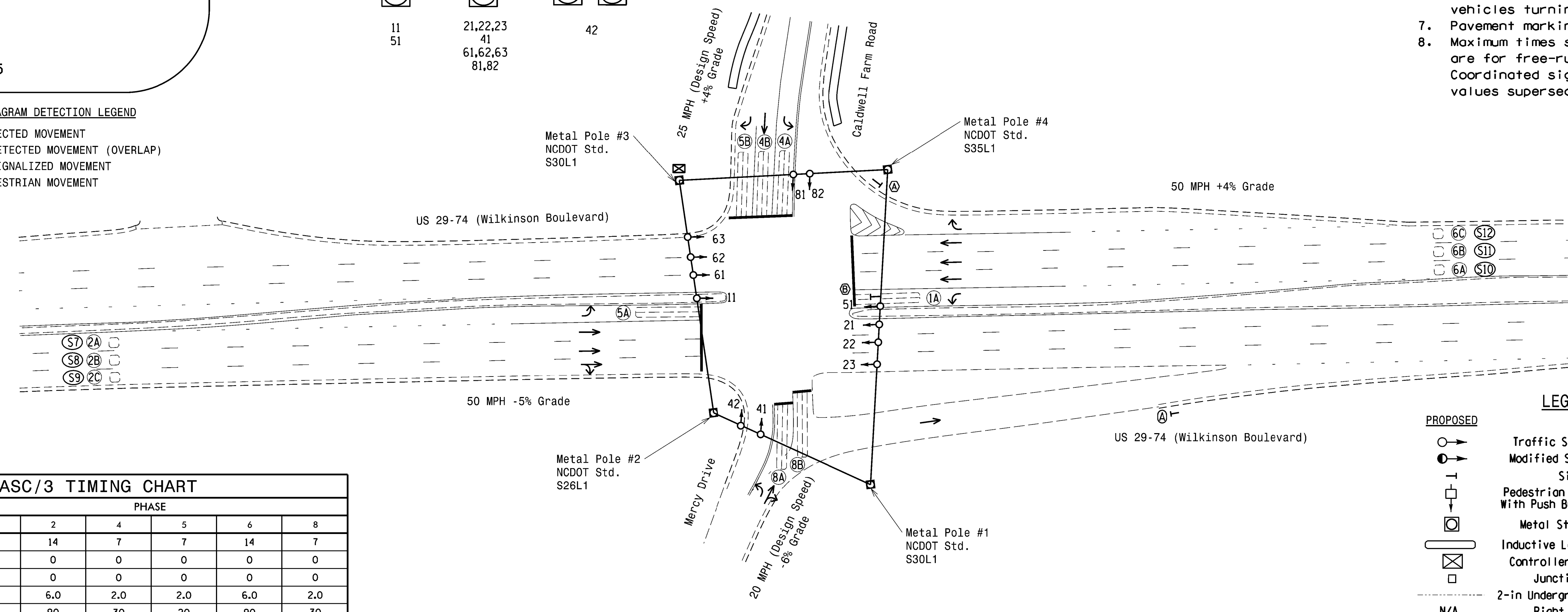
PHASING DIAGRAM DETECTION LEGEND
DETECTED MOVEMENT
UNDETECTED MOVEMENT (OVERLAP)
UNSIGNALIZED MOVEMENT
PEDESTRIAN MOVEMENT

TABLE OF OPERATION
PHASE
SIGNAL FACE: 01+5, 01+6, 02+5, 02+6, 04+8, FLASH

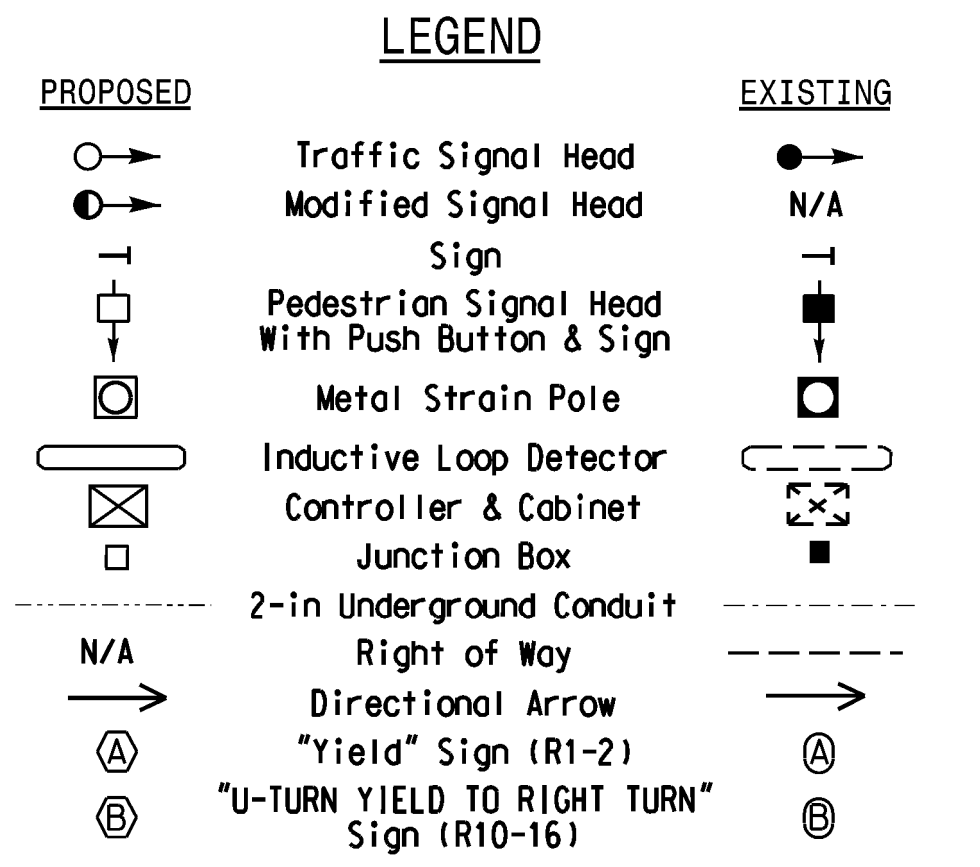


ASC/3 DETECTOR INSTALLATION CHART
DETECTOR: LOOP, SIZE (FT), DISTANCE FROM STOPBAR (FT), TURNS, NEW LOOP
PROGRAMMING: PHASE, CALLING, EXTEND TIME, DELAY TIME, USE ADDED INITIAL, TYPE, SYSTEM LOOP, NEW CARD

- 5 Phase Fully Actuated Belmont 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. Set all detector units to presence mode. 5. 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. 6. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red. 7. Pavement markings are existing. 8. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.



ASC/3 TIMING CHART
FEATURE: Min Green, Walk, Ped Clear, Veh. Extension, Max I, Yellow, Red Clear, Actuations B4 Add, Seconds/Actuation, Max Initial, Time Before Reduction, Time To Reduce, Minimum Gap, Locking Detector, Recall Position, Dual Entry, Simultaneous Gap
PHASE: 1, 2, 4, 5, 6, 8



\* 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

Prepared in the Office of: SUMMIT DESIGN AND ENGINEERING SERVICES
Prepared For: State of North Carolina, Department of Transportation, Signal Design Section
US 29-74 (Wilkinson Boulevard) at Mercy Drive/Caldwell Farm Road
Division 12 Gaston County Belmont
PLAN DATE: December 2018 REVIEWED BY: E. Sirgany
PREPARED BY: J. Smith REVIEWED BY:
REVISIONS: REVISIONS, INITI., DATE
Seal of Edward W. Sirgany, Engineer, License No. 181874