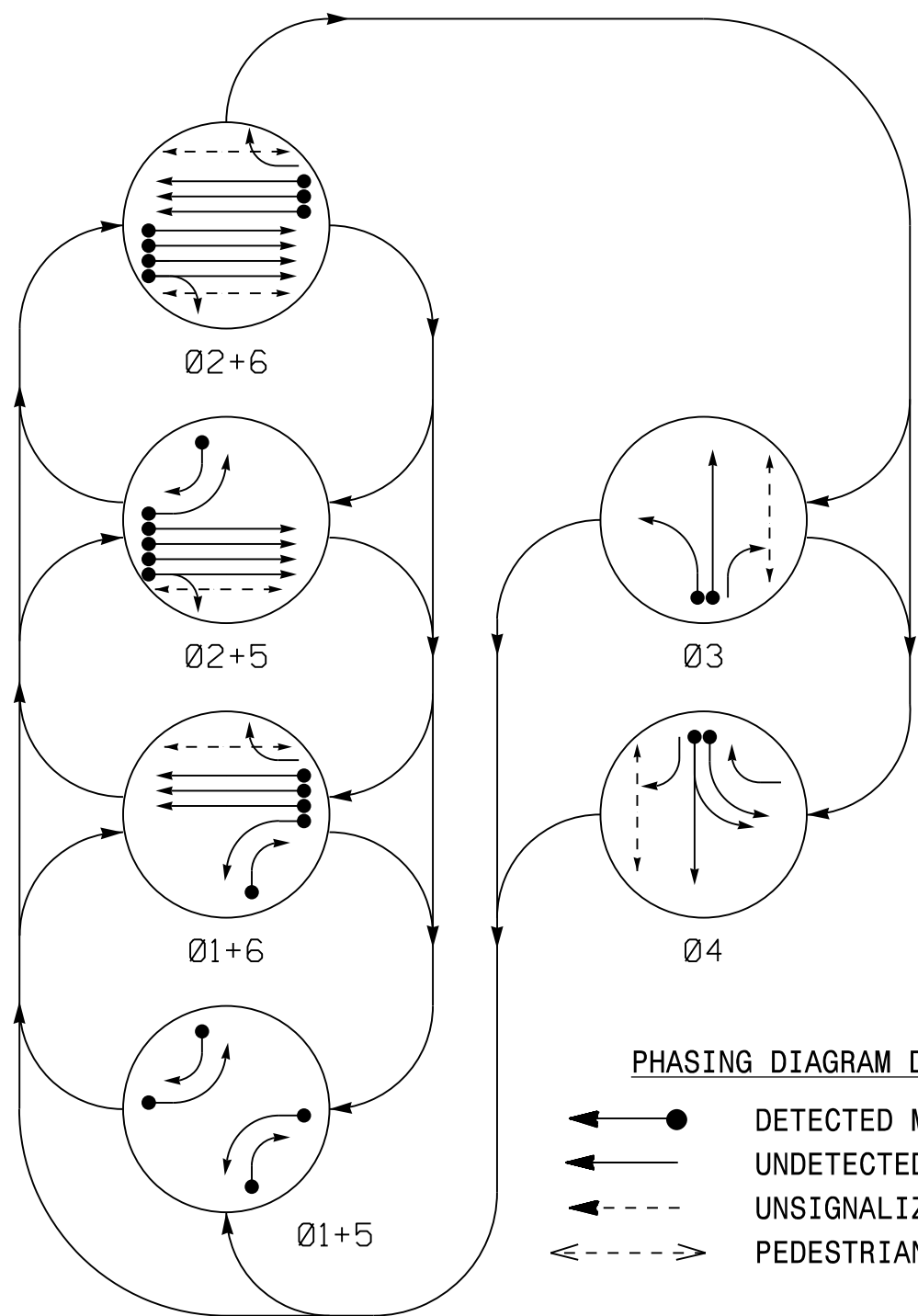


PHASING DIAGRAM

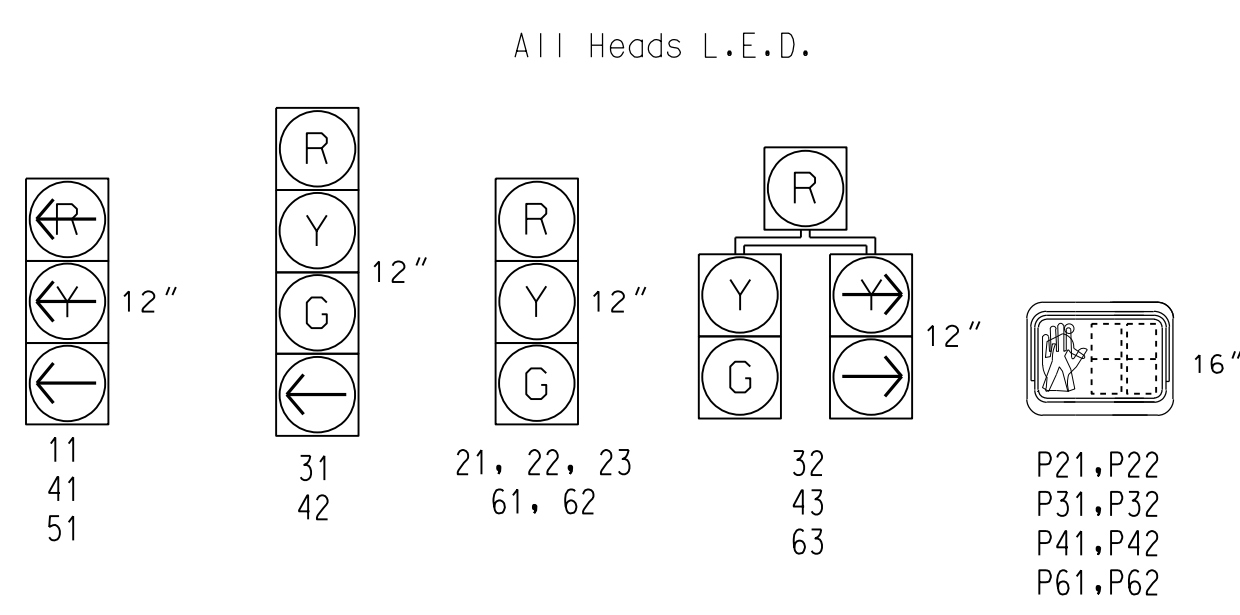


PHASING DIAGRAM DETECTION LEGEND
DETECTED MOVEMENT
UNDETECTED MOVEMENT (OVERLAP)
UNSIGNALIZED MOVEMENT
PEDESTRIAN MOVEMENT

TABLE OF OPERATION

Table with columns for SIGNAL FACE and PHASE (01+5, 01+6, 02+5, 02+6, 03, 04). Rows include signal faces 11, 21,22,23, 31, 32, 41, 42, 43, 51, 61,62, 63 and program faces P21,P22, P31,P32, P41,P42, P61,P62.

SIGNAL FACE I.D.



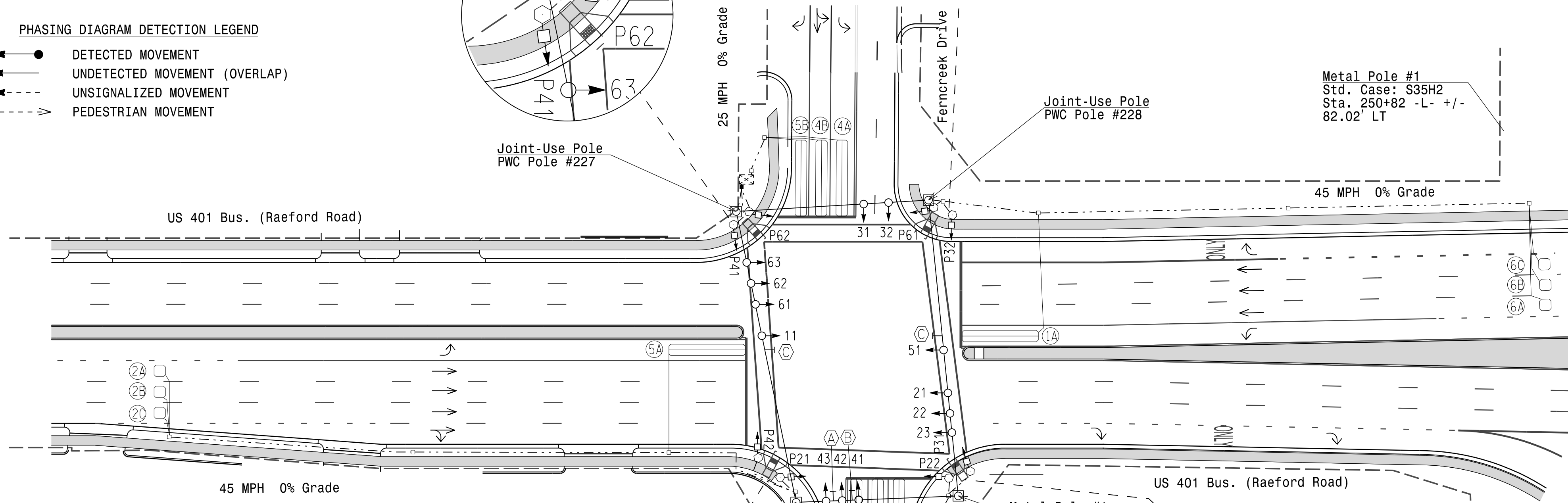
ASC/3 DETECTOR INSTALLATION CHART

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

6 Phase Fully Actuated Fayetteville 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. Set all detector units to presence mode.
6. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
7. Program pedestrian heads to countdown the flashing "DON'T WALK" time only.
8. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
9. Pedestrian pedestals are conceptual and shown for reference only. See 2018 NCDOT Roadway Standard Drawings 1705.04 Sheets 1-3 for push button location details.



LEGEND

Legend table comparing PROPOSED and EXISTING symbols for Traffic Signal Head, Modified Signal Head, Pedestrian Signal Head, Signal Pole with Guy, Inductive Loop Detector, Junction Box, 2-in Underground Conduit, Right of Way, Directional Arrow, Metal Strain Pole, Type II Signal Pedestal, Combined Through and Left Arrow Sign, Left Arrow "ONLY" Sign, "U-TURN YIELD TO RIGHT TURN" Sign.

ASC/3 TIMING CHART

Timing chart table with columns for FEATURE and PHASE (1-6). Rows include Min Green, Walk, Ped Clear, Veh. Extension, Max I, 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 Upgrade - Final Design

Project information block including Stantec logo, project name (US 401 Business (Raeford Road) at Ferncreek Drive/Roxie Avenue), division (Cumberland County Fayetteville), plan date (March 2018), and professional seal of E.D. Harris.

3/29/2018 10:11:11 AM U:\Projects\csm\signal\4405\signal\Drawings\Signal Design\4405-1-sig-dsm-06-0327 Final.dgn User:rlmuncy