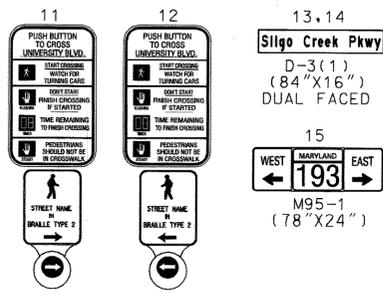
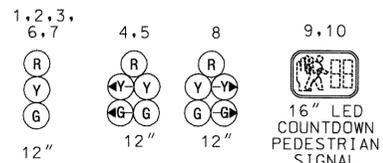


NO. 193 IS ASSUMED TO RUN IN A EAST/WEST DIRECTION

PROPOSED SIGNS



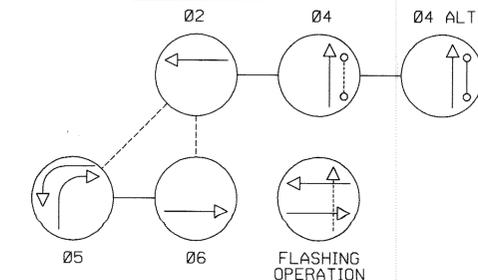
PROPOSED SIGNALS



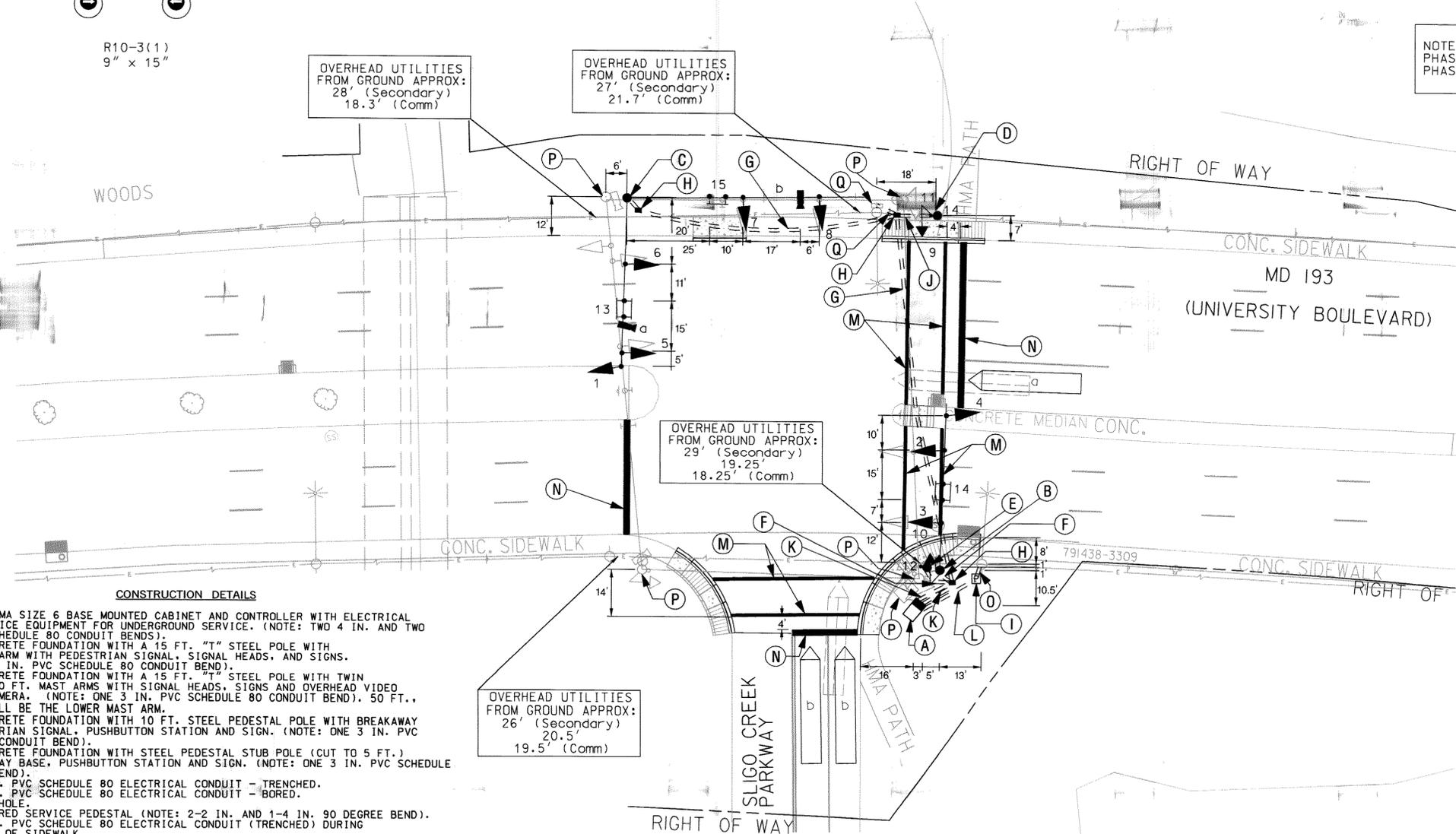
PROPOSED VIDEO DETECTION



NEMA PHASING



NOTE: PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.



CONSTRUCTION DETAILS

- A. INSTALL A NEMA SIZE 6 BASE MOUNTED CABINET AND CONTROLLER WITH ELECTRICAL UTILITY SERVICE EQUIPMENT FOR UNDERGROUND SERVICE. (NOTE: TWO 4 IN. AND TWO 2 IN. PVC SCHEDULE 80 CONDUIT BENDS).
- B. INSTALL CONCRETE FOUNDATION WITH A 15 FT. "T" STEEL POLE WITH 50 FT. MAST ARM WITH PEDESTRIAN SIGNAL, SIGNAL HEADS, AND SIGNS. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND).
- C. INSTALL CONCRETE FOUNDATION WITH A 15 FT. "T" STEEL POLE WITH TWIN 70 FT. AND 50 FT. MAST ARMS WITH SIGNAL HEADS, SIGNS AND OVERHEAD VIDEO DETECTION CAMERA. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND), 50 FT., MAST ARM SHALL BE THE LOWER MAST ARM.
- D. INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE WITH BREAKAWAY BASE, PEDESTRIAN SIGNAL, PUSHBUTTON STATION AND SIGN. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND).
- E. INSTALL CONCRETE FOUNDATION WITH STEEL PEDESTAL STUB POLE (CUT TO 5 FT.) WITH BREAKAWAY BASE, PUSHBUTTON STATION AND SIGN. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND).
- F. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- G. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
- H. INSTALL HANDHOLE.
- I. INSTALL METERED SERVICE PEDESTAL (NOTE: 2-2 IN. AND 1-4 IN. 90 DEGREE BEND).
- J. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT (TRENCHED) DURING CONSTRUCTION OF SIDEWALK.
- K. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- L. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT TO CONTROLLER.
- M. INSTALL 12 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING 12 FT. APART (CROSSWALK).
- N. INSTALL 24 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (STOP LINE).
- O. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT (TRENCHED). STUB 2 FT. ABOVE GRADE AT THE BASE OF POLE ON WEST SIDE AND INSTALL 2 IN. RISER WITH PULL CORD.
- P. REMOVE EXISTING SIGNAL CABINET, SPAN WIRE POLES AND ALL RELATED EQUIPMENT 12 INCHES BELOW GRADE.
- Q. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT (TRENCHED). STUB 2 FT. ABOVE GRADE AT THE BASE OF POLE ON WEST SIDE AND INSTALL 2 IN. RISER TO EXISTING SPLICE CABINET WITH PULL CORD.

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
2. FINAL PAVEMENT MARKINGS SHALL BE REPLACED IN KIND EXCEPT FOR MODIFICATIONS ASSOCIATED WITH THE CROSSWALKS AND STOP LINES SHOWN ON THE SIGNALIZATION PLANS. MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
3. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL. THE REMOVED CONTROLLER AND CABINET EQUIPMENT SHALL BE RETURNED TO MONTGOMERY COUNTY.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
5. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
6. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
7. REFER TO PLAN SHEET 29 OF 54 FOR INSTALLATION OF AND MODIFICATIONS TO ALL ADA RAMPS.
8. MAINTAIN EXISTING SIGNAL UNTIL PROPOSED SIGNAL IS IN FULL SERVICE.
9. TRENCH CONDUIT PRIOR TO RAMP AND SIDEWALK INSTALLATION.
10. PUSHBUTTONS TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18" FROM A 60"x60" LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
11. THE 10' SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE.
12. PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
13. LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.09 AND FIG. 4E.2 AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE". IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 193 (WEST UNIVERSITY BOULEVARD)
AT SILGO CREEK PARKWAY
WHEATON, MARYLAND

GEOMETRIC LEGEND	APPROVALS	REVISIONS	SIGNALIZATION PLAN SHEET
<p>— — — — — EXISTING = = = = = PROPOSED</p> <p>UTILITY LEGEND</p> <p>SD — SD — STORM DRAIN G — G — GAS MAIN W — W — WATER MAIN S — S — SEWER MAIN E — E — ELECTRIC CABLES A — A — AERIAL CABLES T — T — TELEPHONE CABLES F — F — FIBER-OPTIC</p>	<p>TEAM LEADER</p> <p>ASST. DIV. CHIEF</p> <p>DIVISION CHIEF</p> <p>OFFICE DIRECTOR</p>	<p>(B) RECONSTRUCT SIGNAL</p> <p>11/20/08</p> <p>(A) REPLACE LOOP DETECTION WITH VIDEO CAMERAS</p> <p>1/20/09</p>	<p>SCALE: 1"=20'</p> <p>DESIGNED BY MONTGOMERY COUNTY</p> <p>DRAWN BY MONTGOMERY COUNTY</p> <p>CHECKED BY MONTGOMERY COUNTY</p> <p>F.A.P. NO. SEE TITLE SHEET</p> <p>TS NO. 786B</p> <p>DRAWING SG-07 OF 10</p> <p>COUNTY MONTGOMERY</p> <p>LOGMILE 15019302.74</p> <p>TMS NO. J198</p> <p>TOD NO.</p> <p>SHEET NO. OF</p>

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WBCM
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