

BORDER REV. DATE: JUN 1, 2004

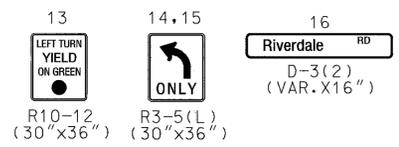


BY: USER NAME

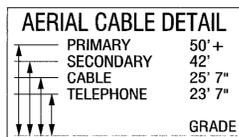


MD 410 IS ASSUMED TO RUN IN AN EAST / WEST DIRECTION

PROPOSED SIGNS

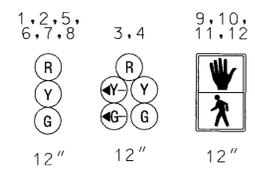


INSTALLED AT CROSSING WITH PUSHBUTTON



PROPOSED SIDEWALK REPLACEMENT SEE ROADWAY PLANS FOR DETAIL OF WORK TO BE COMPLETED.

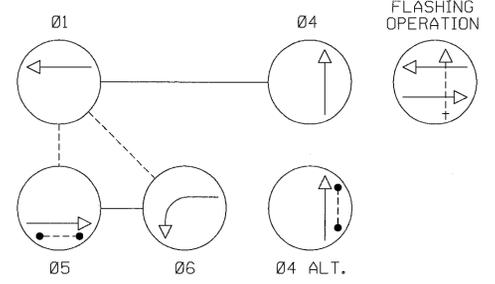
PROPOSED SIGNALS



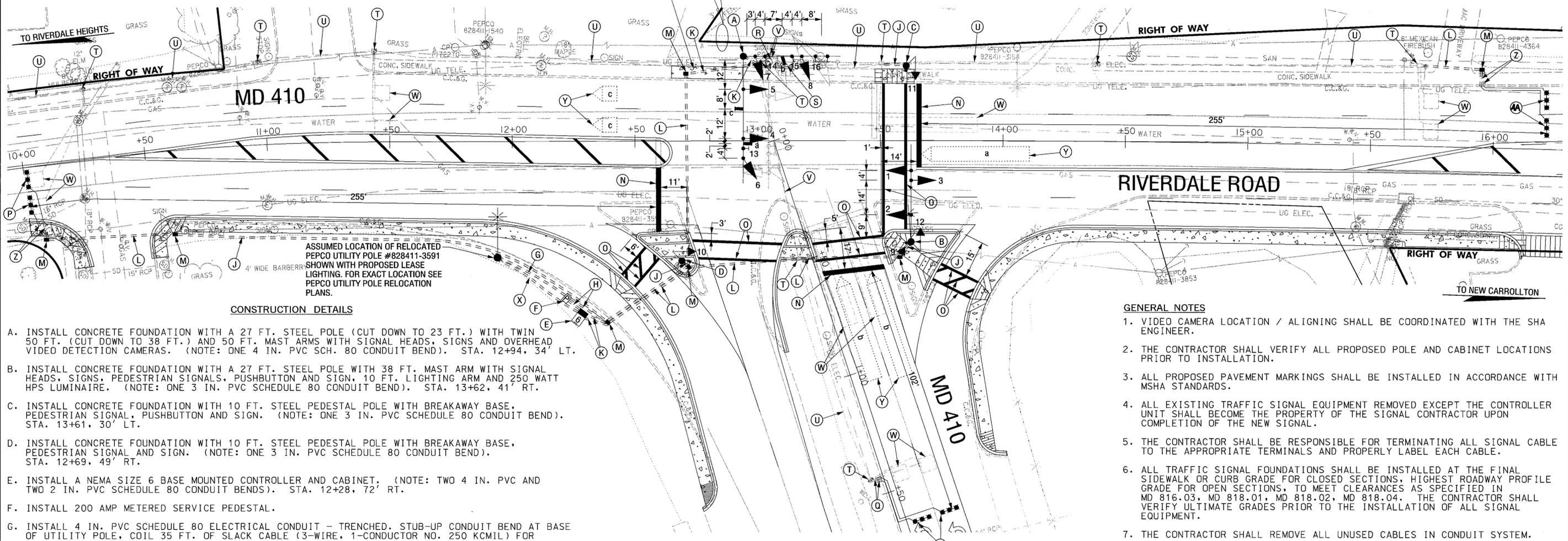
PROPOSED VIDEO DETECTION



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 CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE (CUT DOWN TO 23 FT.) WITH TWIN 50 FT. (CUT DOWN TO 38 FT.) AND 50 FT. MAST ARMS WITH SIGNAL HEADS, SIGNS AND OVERHEAD VIDEO DETECTION CAMERAS. (NOTE: ONE 4 IN. PVC SCH. 80 CONDUIT BEND). STA. 12+94, 34' LT.
- B. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH 38 FT. MAST ARM WITH SIGNAL HEADS, SIGNS, PEDESTRIAN SIGNALS, PUSHBUTTON AND SIGN, 10 FT. LIGHTING ARM AND 250 WATT HPS LUMINAIRE. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND). STA. 13+62, 41' RT.
- C. INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE WITH BREAKAWAY BASE, PEDESTRIAN SIGNAL, PUSHBUTTON AND SIGN. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND). STA. 13+61, 30' LT.
- D. INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE WITH BREAKAWAY BASE, PEDESTRIAN SIGNAL AND SIGN. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND). STA. 12+69, 49' RT.
- E. INSTALL A NEMA SIZE 6 BASE MOUNTED CONTROLLER AND CABINET. (NOTE: TWO 4 IN. PVC AND TWO 2 IN. PVC SCHEDULE 80 CONDUIT BENDS). STA. 12+28, 72' RT.
- F. INSTALL 200 AMP METERED SERVICE PEDESTAL.
- G. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED. STUB-UP CONDUIT BEND AT BASE OF UTILITY POLE, COIL 35 FT. OF SLACK CABLE (3-WIRE, 1-CONDUCTOR NO. 250 KCMIL) FOR POWER FEED. SERVICE CONNECTION SHALL BE MADE BY POWER COMPANY.
- H. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- J. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- K. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- L. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - SLOTTED.

CONSTRUCTION DETAILS CONTINUED

- S. REMOVE EXISTING BASE MOUNTED CONTROLLER, CABINET AND FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
- T. USE EXISTING HANDHOLE.
- U. USE EXISTING CONDUIT.
- V. CAP AND ABANDON EXISTING CONDUIT.
- W. DISCONNECT AND REMOVE EXISTING LOOP DETECTOR CABLES FROM CONDUITS, HANDHOLES, SIGNAL STRUCTURES AND CONTROLLER.
- X. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED. STUB-UP CONDUIT BEND AT BASE OF UTILITY POLE FOR PHONE DROP. (SERVICE SHALL BE REQUESTED BY OTHERS).
- Y. VIDEO DETECTION ZONE.
- Z. INSTALL 1 IN. GALVANIZED ELECTRICAL CONDUIT. (FOR DETECTOR WIRE SLEEVE).
- AA. INSTALL MICRO-LOOP PROBE SET WITH 1000 FT LEAD-IN CABLE.

GENERAL NOTES

1. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
2. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
3. ALL PROPOSED PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
4. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED EXCEPT THE CONTROLLER UNIT SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
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. THE CONTRACTOR SHALL REMOVE ALL UNUSED CABLES IN CONDUIT SYSTEM.

GEOMETRIC LEGEND	
	EXISTING
	PROPOSED
UTILITY LEGEND	
	STORM DRAIN
	GAS MAIN
	WATER MAIN
	SEWER MAIN
	ELECTRIC CABLES
	AERIAL CABLES
	TELEPHONE CABLES
	FIBER-OPTIC

**SABRA, WANG & ASSOCIATES, INC.**  
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APPROVALS	REVISIONS
<p>TEAM LEADER</p> <p>ASST. DIV.</p> <p>DIVISION CHIEF</p> <p>OFFICE DIRECTOR</p>	<p>01/10/05</p> <p>SIGNAL RECONSTRUCTION SHA CONTRACT NO. 284775176</p> <p>SWA [Signature]</p> <p>ADD E/P TO WB RIVERDALE RD/LAG LEFT</p> <p>MEL DD DAZ ETP BRK</p>

**SHA** STATE OF MARYLAND  
 DEPARTMENT OF TRANSPORTATION  
 STATE HIGHWAY ADMINISTRATION  
 OFFICE OF TRAFFIC & SAFETY  
 TRAFFIC ENGINEERING DESIGN DIVISION

**MD 410 AND RIVERDALE ROAD**

TRAFFIC SIGNAL PLAN

SCALE 1"=20' DATE 06/02/88 CONTRACT NO. P899201371

DESIGNED BY R. RAMOS COUNTY PRINCE GEORGES  
 DRAWN BY R.M. LEE LOGMILE 16041005.37  
 CHECKED BY T.I.M.S. NO. G460  
 F.A.P. NO. TOD NO.

DRAWING NO. TS-2443B SHEET NO. OF