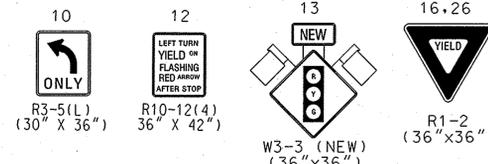
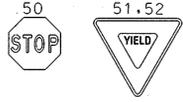


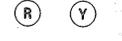
**PROPOSED SIGNS**



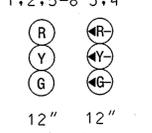
**EXISTING SIGN TO BE REMOVED**



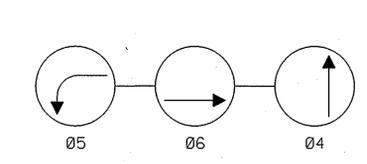
**EXISTING SIGNALS TO BE REMOVED**



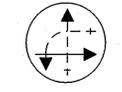
**PROPOSED SIGNALS**



**NEMA PHASING**



**FLASHING OPERATION**



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

**GENERAL NOTES**

1. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL MICROLOOP PROBE LEAD-IN CABLES AND VIDEO DETECTION CAMERA CABLES TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE SO THAT SHA FORCES CAN MAKE THE FINAL CONNECTIONS.
3. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL MODIFICATIONS.
4. ALL UNUSED SIGNAL CABLES SHALL BE REMOVED AND DISPOSED.
5. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
6. FOR FINAL PAVEMENT MARKINGS REFER TO THE PAVEMENT MARKING PLANS, OTHER THAN THOSE DETAILED ON THE PLAN. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
7. ALL PROPOSED LUMINAIRES SHALL BE SUPPLIED WITH A PHOTOCCELL.
8. 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.
9. 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.

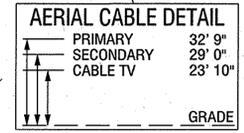
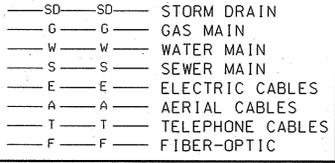
**CONSTRUCTION DETAILS**

- A. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH TWIN 50 AND 60 FT. MAST ARMS WITH SIGNAL HEADS, SIGNS, 20 FT. LIGHTING ARM, 250 WATT HPS LUMINAIRE AND OVERHEAD VIDEO DETECTION CAMERAS. (NOTE: ONE 4 IN. PVC SCHEDULE 80 CONDUIT BEND)
- B. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH 70 FT. MAST ARM WITH SIGNAL HEADS, SIGNS, 20 FT. LIGHTING ARM, 250 WATT HPS LUMINAIRE. (NOTE: ONE 4 IN. PVC SCHEDULE 80 CONDUIT BEND)
- C. INSTALL A NEMA SIZE 6 BASE MOUNTED CONTROLLER AND CABINET (NOTE: TWO-4 IN. PVC, AND TWO-2 IN. PVC SCHEDULE 80 CONDUIT BENDS).
- D. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED
- E. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT FOR ELECTRICAL SERVICE - TRENCHED. STUB OUT CONDUIT BEND AT BASE OF UTILITY POLE.
- F. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- G. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
- H. INSTALL HANDHOLE.
- J. INSTALL 24 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR STOP LINE.
- K. REMOVE EXISTING POLE, ASSOCIATED EQUIPMENT AND FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
- L. REMOVE EXISTING SPAN WIRE AND ALL ASSOCIATED EQUIPMENT.
- M. INSTALL GROUND MOUNTED SIGN.
- N. INSTALL NON-INVASIVE MICROLOOP PROBES WITH 1000 FT. LEAD-IN CABLE.
- O. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- P. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
- Q. INSTALL METERED SERVICE PEDESTAL.
- R. EXISTING SERVICE TOBE REMOVE BY OTHERS.
- S. REMOVE EXISTING PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
- T. USE EXISTING SIGNS AND INSTALL EXISTING AND NEW SIGNS ON NEW WOOD POST AS SHOWN.
- U. REMOVE EXISTING GROUND MOUNTED SIGN.
- V. INSTALL 14' PEDESTAL POLE WITH WITH SIGNAL HEAD (NOTE: ONE-3 IN. PVC SCHEDULE 80 CONDUIT BENDS)

**GEOMETRIC LEGEND**



**UTILITY LEGEND**



**CONSTRUCTION DETAILS CONT.**

- W. REMOVE AND RESET 4' CONCRETE SIDEWALK.
- X. REMOVE EXISTING YIELD SIGN.
- Y. LEASED LIGHTING (250 WATT HPS LUMINAIRE) ON EXISTING UTILITY POLE BY OTHERS.
- Z. REMOVE EXISTING REFLECTIVE POST.
- a. INSTALL 5 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING - FOR ISLAND
- b. INSTALL 5 IN. HEAT APPLIED, 3' LINE AND 3' GAP WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING - FOR LANE LINE

TOD No: AT915-16  
SHA No.: CH337A52/B52  
US 301 @ MD 257

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
**US 301(CRAIN HIGHWAY) AND  
MD 257(ROCK POINT ROAD)  
NEWBURG, MARYLAND**

APPROVALS	REVISIONS
<p>ORIGINAL ON FILE</p> <p>TEAM LEADER</p> <p>ASSY. DIR.</p> <p>DIVISION CHIEF</p> <p>OFFICE DIRECTOR</p>	<p>© INSTALL HALF SIGNAL 11/06 FOR NB US 301 S.H.A. AT915185 H576</p> <p>B REMOVED POLES FROM 5/85 MED REP SIGNALS S.H.A. 855-22003</p> <p>DCD   SR   DW   EP   TH</p> <p>A AS BUILT 7-3-74</p> <p>CH-457X-585</p> <p>CS   FWR   AB</p>

TRAFFIC SIGNAL PLAN	
SCALE 1"= 20'	DATE 7-3-73 CONTRACT NO.
DESIGNED BY D. DODA	COUNTY CHARLES
DRAWN BY J. GORDON	LOGFILE 08025709.75
CHECKED BY A.B.	T.I.M.S. NO. H576
F.A.P. NO.	TOD NO.
DRAWING NO. 974C	SHEET NO. 1 OF 2

**BAI**  
BRUDIS & ASSOCIATES, INC.  
CONSULTING ENGINEERS  
9220 RUMSEY ROAD, SUITE 110  
COLUMBIA, MARYLAND 21045

BY: \$USER\$