

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

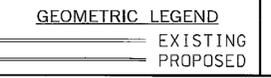
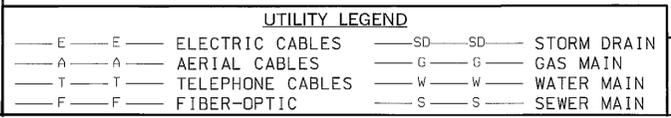
- GENERAL NOTES**
- MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING MDSA STANDARD TYPICALS FOR TRAFFIC CONTROL.
 - THE CONTRACTOR SHALL CONTACT MISS UTILITY TO VERIFY ALL UNDERGROUND UTILITIES PRIOR TO THE INSTALLATION OF PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
 - WITHIN 36 IN. OF UNDERGROUND UTILITY LOCATIONS, THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE FOR FOUNDATION AND CONDUIT BY HAND.
 - 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.
 - THE CONTRACTOR SHALL INTEGRATE PROPOSED/EXISTING CONCRETE FOUNDATIONS WITH NEW CURB/SIDEWALK RAMP WHERE NECESSARY. THE FOUNDATIONS SHALL BE FLUSH WITH AND PART OF THE FINAL CURB OR SIDEWALK GRADE TO INCREASE ACCESSIBILITY FOR PEDESTRIANS.
 - THE SHA SIGNAL SHOP WILL BE RESPONSIBLE FOR ALL INTERNAL CABINET WIRING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING AND PROPERLY LABELING ALL SIGNAL CABLES.
 - THE CONTRACTOR SHALL VERIFY THE PROPOSED POLE AND CABINET LOCATION(S) PRIOR TO INSTALLATION.
 - THE CONTRACTOR SHALL CENTER THE PROPOSED CROSSWALKS ON NEWLY CONSTRUCTED RAMP.
 - ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MDSA STANDARDS.
 - THE CONTRACTOR SHALL REFER TO FIGURE 3B-20g OF THE 2011 MARYLAND M.U.T.C.D. FOR CROSSWALK PAVEMENT MARKING DETAIL.
 - THE CONTRACTOR SHALL REMOVE ANY EXISTING PAVEMENT MARKINGS LOCATED WITHIN PROPOSED CROSSWALKS AND/OR STOP LINES.
 - LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E-09 AND FIG. 4E-21 AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE." IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL THE CONFLICT HAS BEEN RESOLVED. IF NEEDED, A DESIGN WAIVER SHALL BE OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
 - PUSHBUTTONS ARE TO BE LOCATED SO THAT A PEDESTRIAN IN A WHEELCHAIR LOCATED ON A 60 IN. X 60 IN. LEVEL LANDING AREA DOES NOT HAVE TO REACH MORE THAN 18 IN. A LEVEL LANDING AREA IS AN AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
 - THE 10 FT. MINIMUM SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSH BUTTON, NOT CENTER OF POLE TO CENTER OF POLE.
 - PUSHBUTTON ARROWS ARE TO BE TURNED PARALLEL TO THE CROSSWALK FOR WHICH THEY ARE INTENDED.
 - ALL ACCESSIBLE PEDESTRIAN CONTROL EQUIPMENT SHALL BE DELIVERED TO THE SHA SIGNAL SHOP FOR TESTING AND PROGRAMMING PRIOR TO INSTALLATION. CONTACT MR. EDWARD RODENHIZER AT 410-787-7650 TO COORDINATE.
 - THE CONTRACTOR MUST COORDINATE THE INSTALLATION OF PROPOSED SIGNAL EQUIPMENT WITH THE CONSTRUCTION OF THE PROPOSED SIDEWALK RAMP. REFER TO THE DETAIL SHEETS IN THE ROADWAY PLANS FOR PROPOSED RAMP STANDARDS, STATIONS, AND OFFSETS.
 - HANDHOLE ADJUSTMENTS SHALL BE COMPLETED PER THE ROADWAY PLANS.
 - THE SHA INSPECTOR SHALL INFORM THE SHA SIGNAL SHOP FORCES TO RE-ALIGN VIDEO DETECTION CAMERAS FOR REVISED PRESENCE DETECTION ZONES AS SHOWN ON THE PLAN.
 - WOOD SUPPORTS INSTALLED IN CONCRETE SHALL BE INSTALLED WITH SLEEVED FOUNDATIONS AS PER STANDARDS MD 812.05-01 AND MD 812.05-02.

CONSTRUCTION DETAILS CONT'D

- N. USE EXISTING CONDUIT.
- P. REMOVE EXISTING PAVEMENT MARKINGS.
- Q. SHA SIGNAL SHOP TO REALIGN VIDEO DETECTION CAMERA.
- R. INSTALL ELECTRICAL HANDHOLE.
- S. EXISTING HAND HOLE TO BE ADJUSTED TO THE PROPOSED SIDEWALK GRADE BY OTHERS (SEE GENERAL NOTE 18).
- T. REMOVE EXISTING PEDESTRIAN SIGNAL HEAD FROM EXISTING STRAIN POLE.
- U. INSTALL GROUND MOUNTED SIGNS(S) ON ONE(1) 4 IN. X 6 IN. BREAKAWAY WOOD POST.
- V. INSTALL GROUND MOUNTED SIGNS(S) ON ONE(1) 4 IN. X 4 IN. BREAKAWAY WOOD POST.
- W. INSTALL OVERHEAD SIGN ON EXISTING STRAIN POLE.
- X. REMOVE EXISTING GROUND MOUNTED SIGN.

CONSTRUCTION DETAILS

- A. INSTALL A 10 FT. BREAKAWAY PEDESTAL POLE (CUT TO 5 FT.) WITH FOUNDATION SHA STD. MD 801.01-01. BREAKAWAY COUPLINGS, ACCESSIBLE PUSHBUTTON (ARROW RIGHT) AND SIGN R10-3(1) "PUSH BUTTON TO CROSS RIVERSIDE PKWY". CUT, CLEAN, GALVANIZE AND CAP SIGNAL STRUCTURE (NOTE: 1-2 IN. 90 DEGREE PVC BEND).
- B. INSTALL LED COUNTDOWN PEDESTRIAN SIGNAL HEAD ON EXISTING STRAIN POLE.
- C. INSTALL LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, ACCESSIBLE PUSHBUTTON (ARROW LEFT) AND SIGN R10-3(1) "PUSH BUTTON TO CROSS RIVERSIDE PKWY" ON EXISTING STRAIN POLE.
- D. USE EXISTING SPAN WIRE.
- E. INSTALL A 10 FT. BREAKAWAY PEDESTAL POLE (CUT TO 5 FT.) WITH FOUNDATION SHA STD. MD 801.01-01. BREAKAWAY COUPLINGS, ACCESSIBLE PUSHBUTTON (ARROW LEFT) AND SIGN R10-3(1) "PUSH BUTTON TO CROSS RIVERSIDE PKWY". CUT, CLEAN, GALVANIZE AND CAP SIGNAL STRUCTURE (NOTE: 1-2 IN. 90 DEGREE PVC BEND).
- F. INSTALL A 10 FT. BREAKAWAY PEDESTAL POLE WITH FOUNDATION SHA STD. MD 801.01-01. LED COUNTDOWN PEDESTRIAN SIGNAL, BREAKAWAY COUPLINGS, ACCESSIBLE PUSHBUTTON (ARROW LEFT) AND SIGN R10-3(1) "PUSH BUTTON TO CROSS RIVERSIDE PKWY" (NOTE: 1-2 INCH PVC 90 DEGREE BEND).
- G. INSTALL 2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED.
- H. INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - BORED.
- I. INSTALL 12 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE FOR CROSSWALK.
- J. COORDINATE WITH THE SHA SIGNAL SHOP TO INSTALL TWO (2) WIRE CENTRAL CONTROL UNIT FOR APS IN EXISTING CABINET. USE EXISTING SIZE "6" BASE MOUNTED CABINET AND CONTROLLER.
- K. INSTALL 24 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE FOR STOPLINE.
- L. INSTALL 24 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE FOR STOPLINE.
- M. USE EXISTING HANDHOLE.



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APPROVALS	REVISIONS
TEAM LEADER	
ASST. DIV. CHIEF	
DIVISION CHIEF	

TRAFFIC SIGNALIZATION PLAN	
SCALE: 1" = 20'	ADVERTISED DATE: _____ CONTRACT NO. _____
DESIGNED BY: MMM	COUNTY: HARFORD
DRAWN BY: JWS	LOGMILE: 04054301.23
CHECKED BY: _____	TMS NO. _____
F.A.P. NO. _____	TOD NO. _____
TS NO. 3422A	DRAWING SG-01 OF 02 SHEET NO. 1 OF 2

PLOTTED: Monday, July 02, 2012 AT 05:00 PM
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