



- CONSTRUCTION DETAILS**
- A. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE, FOUNDATION (MDSA STD. 801.01-01), 16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, ACCESSIBLE PEDESTRIAN PUSHBUTTON, AND R10-3(1) SIGN. (NOTE: 1-3 IN. SCH. 80 PVC BEND).
 - B. INSTALL GROUND MOUNTED SIGN ON SINGLE 6" x 6" WOOD POST.
 - C. INSTALL MICROLOOP PROBE WITH 1000 FT. LEAD IN CABLE
 - D. INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (FOR DETECTOR SLEEVE)
 - E. INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
 - F. INSTALL 10 IN. WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
 - G. INSTALL 12 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE
 - H. INSTALL 24 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE
 - J. USE EXISTING HANDHOLE
 - K. USE EXISTING CONDUIT
 - L. USE EXISTING CABINET AND CONTROLLER
 - M. REMOVE EXISTING PAVEMENT MARKING
 - N. ABANDON EXISTING MICROLOOP DETECTORS
 - P. ADJUST EXISTING VIDEO DETECTION CAMERA TO PROPOSED DETECTION ZONE
 - R. ADJUST EXISTING HANDHOLE TO GRADE
 - S. SEE SG-06 FOR NEW SIDEWALK AND RAMP CONSTRUCTION
 - T. INSTALL GROUND MOUNTED SIGN ON SINGLE 4" x 6" WOOD POST.

- GENERAL NOTES:**
1. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH SHA STANDARDS.
 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE. THE SHA SIGNAL SHOP WILL BE RESPONSIBLE FOR ALL INTERNAL CABINET WIRING.
 3. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING SHA STANDARDS PLATES FOR TRAFFIC CONTROL.
 4. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL MODIFICATION.
 5. THE CONTRACTOR SHALL CONTACT MISS UTILITY TO VERIFY ALL UNDERGROUND UTILITIES PRIOR TO THE INSTALLATION OF PROPOSED SIGNAL EQUIPMENT. IF ANY CONFLICTS ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
 6. WITHIN 36 IN. OF UNDERGROUND UTILITY LOCATIONS, THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE FOR FOUNDATION AND CONDUIT BY HAND.
 7. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED ELECTRICAL CABLES.
 8. THE CONTRACTOR SHALL ENSURE THE EXISTING TRAFFIC SIGNAL REMAINS OPERATIONAL THROUGHOUT THE CONSTRUCTION PROCESS UNTIL SUCH TIME THAT THE NEW CONSTRUCTION CAN BE UTILIZED.
 9. ALL SIGNAL POLE FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE TO MEET CLEARANCES AS SPECIFIED IN MD 818.01, 818.03, 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
 10. THE CONTRACTOR SHALL VERIFY ALL RAMP AND PUSHBUTTON LOCATIONS PRIOR TO INSTALLATION.

- GENERAL NOTES (CONT.):**
11. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18" FROM A 60" x 60" LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
 12. THE 10' SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLES.
 13. PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
 14. THE CONTRACTOR SHALL INSTALL ALL CONDUIT PRIOR TO NEW SIDEWALK AND RAMP CONSTRUCTION.
 15. LOCATION OF THE ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.09 AND FIG 4E.2 AND 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.
 16. SEE SG-06 FOR SIDEWALK AND SIGNAL CONSTRUCTION DETAILS.

GEOMETRIC LEGEND

--- EXISTING
--- PROPOSED

UTILITY LEGEND

- SD - STORM DRAIN
- G - GAS MAIN
- W - WATER MAIN
- S - SEWER MAIN
- E - ELECTRIC CABLES
- A - AERIAL CABLES
- T - TELEPHONE CABLES
- F - FIBER-OPTIC

RJM ENGINEERING, INC.
CONSULTING ENGINEERS
ELLCOTT CITY, MARYLAND

APPROVALS

TEAM LEADER

ASST. DIV. CHIEF

DIVISION CHIEF

OFFICE DIRECTOR

ORIGINAL ON FILE

REVISIONS

1	INSTALL APS/CPS, GURB-16LANDS & WEST LEG CROSSWALK	AUG 2011
	C-0285-02	
	TMS #812	
	PFW WM	DJD

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
US 1 CORRIDOR REVITALIZATION
US 1 AT TROY HILL DRIVE

TRAFFIC SIGNALIZATION

SCALE 1" = 20' ADVERTISED DATE JAN. 2006 CONTRACT NO. AT7175185

DESIGNED BY S. YOUNG COUNTY HOWARD
DRAWN BY S. YOUNG LOGMILE 13000108.24
CHECKED BY B. BIDDLE TMS NO. G922
F.A.P. NO. TOD NO.

TS NO. 4427A DRAWING **SG-05** OF 08 SHEET NO. 21 OF 24

P. Young 10-24-11
REDLINE [3] APPROVAL