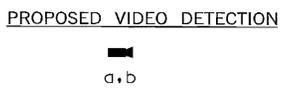
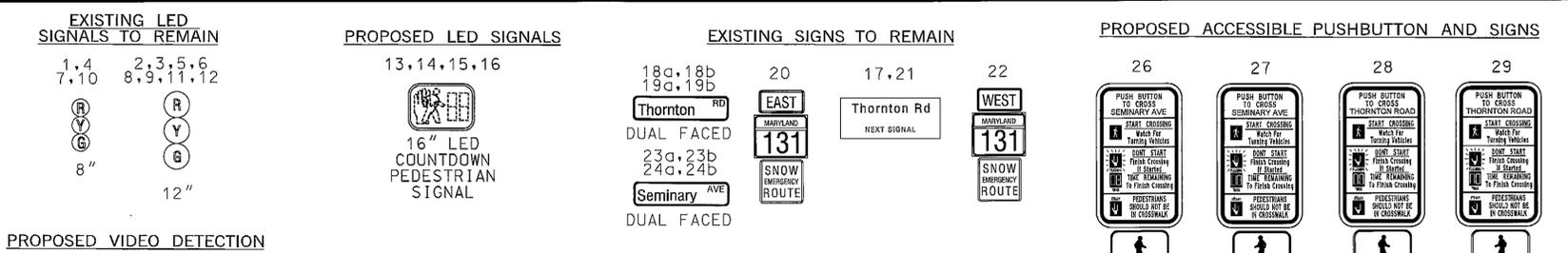




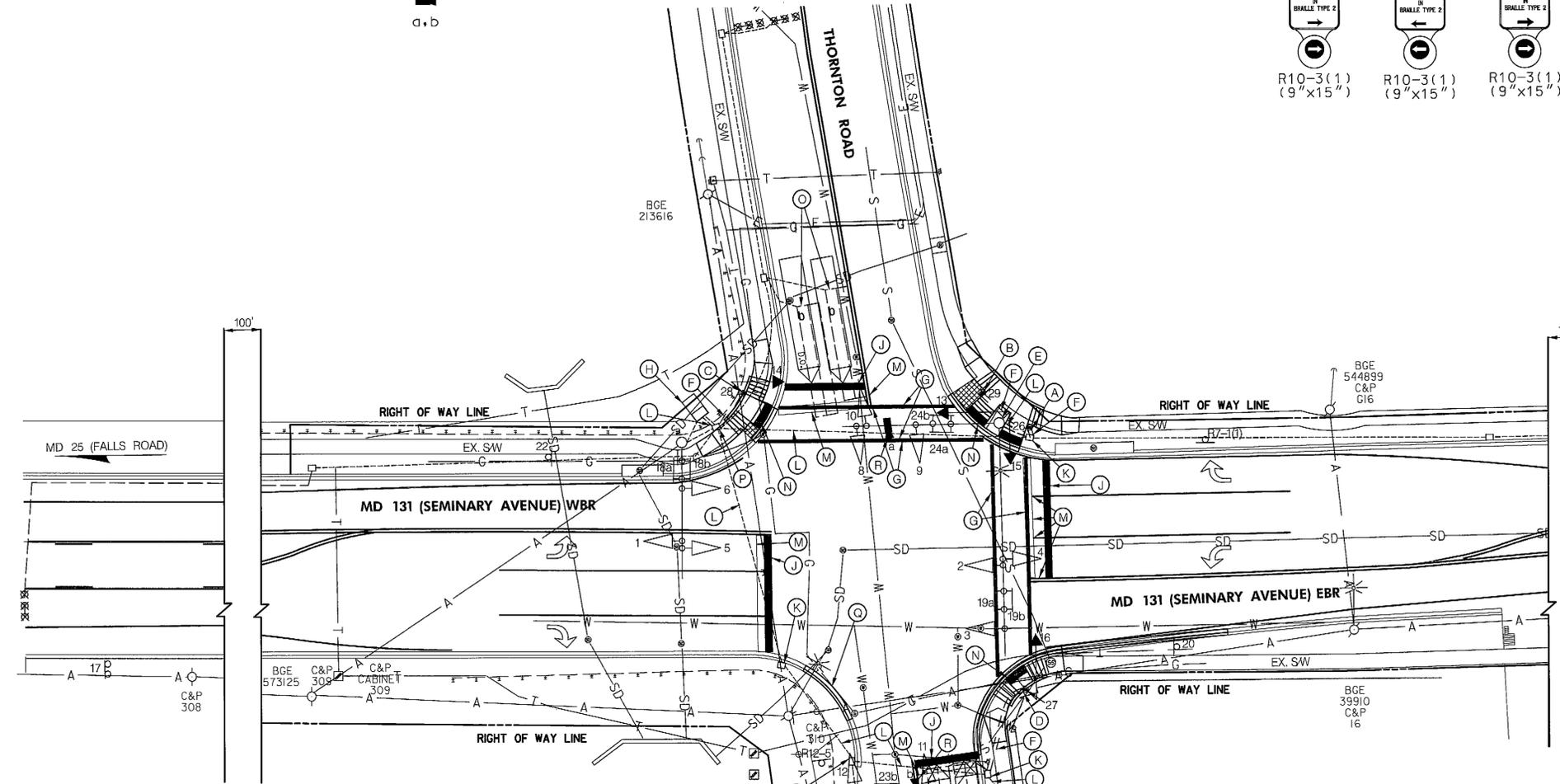
MD 131 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION



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

GENERAL NOTES

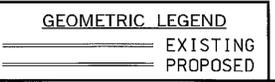
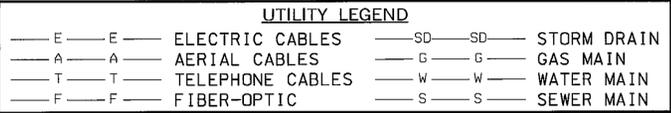
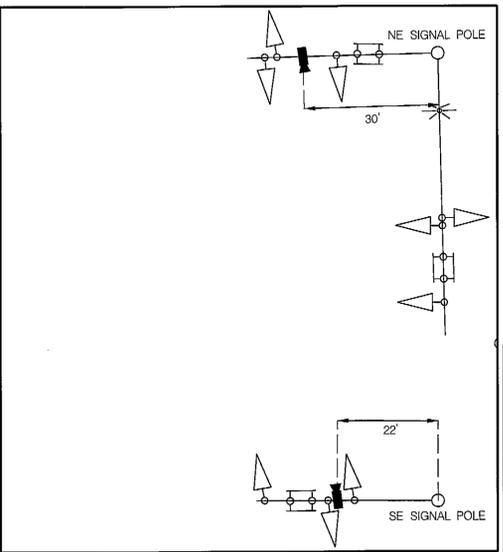
1. THE CONTRACTOR SHALL CONTACT MISS UTILITY TO VERIFY ALL UNDERGROUND UTILITIES PRIOR TO THE INSTALLATION OF PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
2. THE SHA SIGNAL SHOP WILL BE RESPONSIBLE FOR ALL INTERNAL CABINET WIRING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING AND PROPERLY LABELING ALL SIGNAL CABLES.
3. SEE GENERAL INFORMATION SHEET FOR PEDESTRIAN SIGNAL POLE AND PUSHBUTTON LAYOUTS.
4. ALL ACCESSIBLE PEDESTRIAN 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.
5. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED ELECTRICAL CABLES.
6. LOCATION OF ACCESSIBLE PEDESTRIAN PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.09 AND FIG. 4E.02 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 AND APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
7. THE CONTRACTOR SHALL REMOVE AND REPLACE CONCRETE SIDEWALKS AT THE NEAREST JOINT.
8. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING MSHA STANDARD TYPICALS FOR TRAFFIC CONTROL.
9. WITHIN 36 IN. OF UNDERGROUND UTILITY LOCATIONS, THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE FOR FOUNDATION AND CONDUIT BY HAND.
10. 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.
11. 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.
12. THE CONTRACTOR SHALL VERIFY THE PROPOSED POLE AND CABINET LOCATION(S) PRIOR TO INSTALLATION.
13. THE CONTRACTOR SHALL CENTER THE PROPOSED CROSSWALKS ON NEWLY CONSTRUCTED RAMP.
14. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
15. THE CONTRACTOR SHALL REMOVE ANY EXISTING PAVEMENT MARKINGS LOCATED WITHIN PROPOSED CROSSWALKS AND/OR STOP LINES.
16. 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%.
17. 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.
18. PUSHBUTTON ARROWS ARE TO BE TURNED PARALLEL TO THE CROSSWALK FOR WHICH THEY ARE INTENDED.
19. VIDEO CAMERA LOCATION/ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.



CONSTRUCTION DETAILS

- INSTALL A 5 FT. BREAKAWAY PEDESTAL POLE WITH FOUNDATION SHA STD. MD 801.01-01. BREAKAWAY COUPLINGS, ACCESSIBLE PUSHBUTTON (ARROW RIGHT) AND SIGN R10-3(1) "PUSHBUTTON TO CROSS SEMINARY AVE" (NOTE: 1-2 IN. 90 DEGREE PVC BEND).
- INSTALL A 5 FT. BREAKAWAY PEDESTAL POLE WITH FOUNDATION SHA STD. MD 801.01-01. BREAKAWAY COUPLINGS, ACCESSIBLE PUSHBUTTON (ARROW LEFT) AND SIGN R10-3(1) "PUSHBUTTON TO CROSS THORNTON ROAD" (NOTE: 1-2 IN. 90 DEGREE PVC BEND).
- INSTALL A 10 FT. BREAKAWAY PEDESTAL POLE WITH FOUNDATION SHA STD. MD 801.01-01. BREAKAWAY COUPLINGS, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, ACCESSIBLE PUSHBUTTON (ARROW RIGHT) AND SIGN R10-3(1) "PUSHBUTTON TO CROSS THORNTON ROAD" (NOTE: 1-2 IN. 90 DEGREE PVC BEND).
- INSTALL A 10 FT. BREAKAWAY PEDESTAL POLE WITH FOUNDATION SHA STD. MD 801.01-01. BREAKAWAY COUPLINGS, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, ACCESSIBLE PUSHBUTTON (ARROW LEFT) AND SIGN R10-3(1) "PUSHBUTTON TO CROSS SEMINARY AVE" (NOTE: 1-2 IN. 90 DEGREE PVC BEND).
- INSTALL LED COUNTDOWN PEDESTRIAN SIGNAL HEADS ON EXISTING SIGNAL POLE.
- INSTALL 2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED.
- INSTALL 12 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE FOR CROSSWALK.
- COORDINATE WITH THE SHA SIGNAL SHOP TO INSTALL A 2-WIRE CENTRAL CONTROL UNIT FOR APS IN EXISTING CABINET. USE EXISTING SIZE "6" BASE MOUNTED CABINET AND CONTROLLER.
- INSTALL 24 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE FOR STOPLINE.
- USE EXISTING HANDHOLE.
- USE EXISTING CONDUIT.
- REMOVE EXISTING PAVEMENT MARKINGS.
- REMOVE EXISTING SIDEWALK AND RAMP. CONSTRUCT NEW SIDEWALK AND RAMP WITH DETECTABLE WARNING SURFACE CLAY BRICK PAVERS PER SHA STD. MD 655.40 (SEE DETAIL ON G1 SHEET).
- ABANDON EXISTING LOOP DETECTOR.
- USE EXISTING HANDHOLE. ADJUST HANDHOLE TO THE PROPOSED SIDEWALK GRADE.
- REMOVE EXISTING CURB CUT OPENING AND INSTALL STANDARD TYPE A CURB AND GUTTER SHA STD. MD 620.02.
- INSTALL VIDEO DETECTION CAMERA ON EXISTING MAST ARM.

MAST ARM DETAIL (1"=20')



STV
STV Incorporated
 7125 Ambassador Road, Suite 200
 Baltimore, MD 21244

BY: georgesk

APPROVALS	REVISIONS
TEAM LEADER	① INSTALL APS CPS AND CROSSWALKS FOR THE NORTH & EAST LEGS
ASST. DIR. CHIEF	SHA NO. XY1255195 TMS # 1354 06/2012
DIVISION CHIEF	STV
OFFICE DIRECTOR	

DESIGNED BY	COUNTY	BALTIMORE
DRAWN BY	LOGMILE	03013101.28
CHECKED BY	TMS NO.	C-563
F.A.P. NO.	TOD NO.	

SHA STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 OFFICE OF TRAFFIC & SAFETY
 TRAFFIC ENGINEERING DESIGN DIVISION
 MD 131 (SEMINARY AVENUE)
 AT THORNTON ROAD
 SPARKS, MD

TRAFFIC SIGNALIZATION PLAN

SCALE 1" = 20' ADVERTISED DATE 12/4/07 CONTRACT NO. AW278A5A/B5A

TS NO. 3758A	DRAWING SG-01	OF 02	SHEET NO. 01 OF 02
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