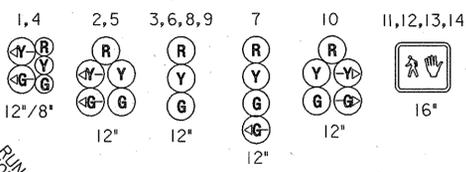
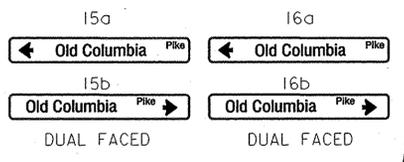


NO 103 IS ASSUMED TO RUN
AN EAST-WEST DIRECTION

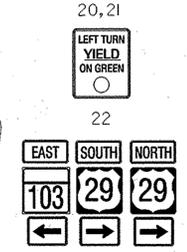
PROPOSED LED SIGNALS



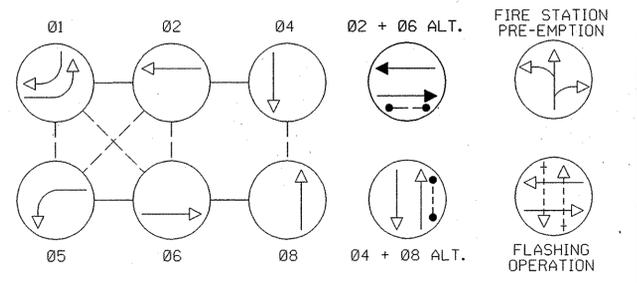
EXISTING SIGNS TO REMAIN



EXISTING SIGNS TO BE REMOVED

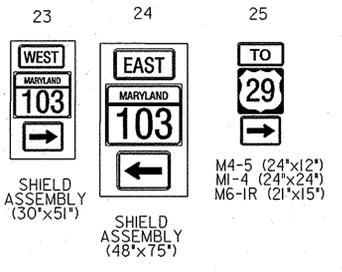


NEMA PHASING

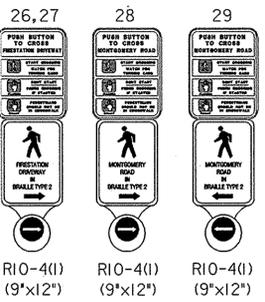


NOTE: PHASES ASSOCIATED BY A DASHED LINE MAY/WILL OPERATE CONCURRENTLY.
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

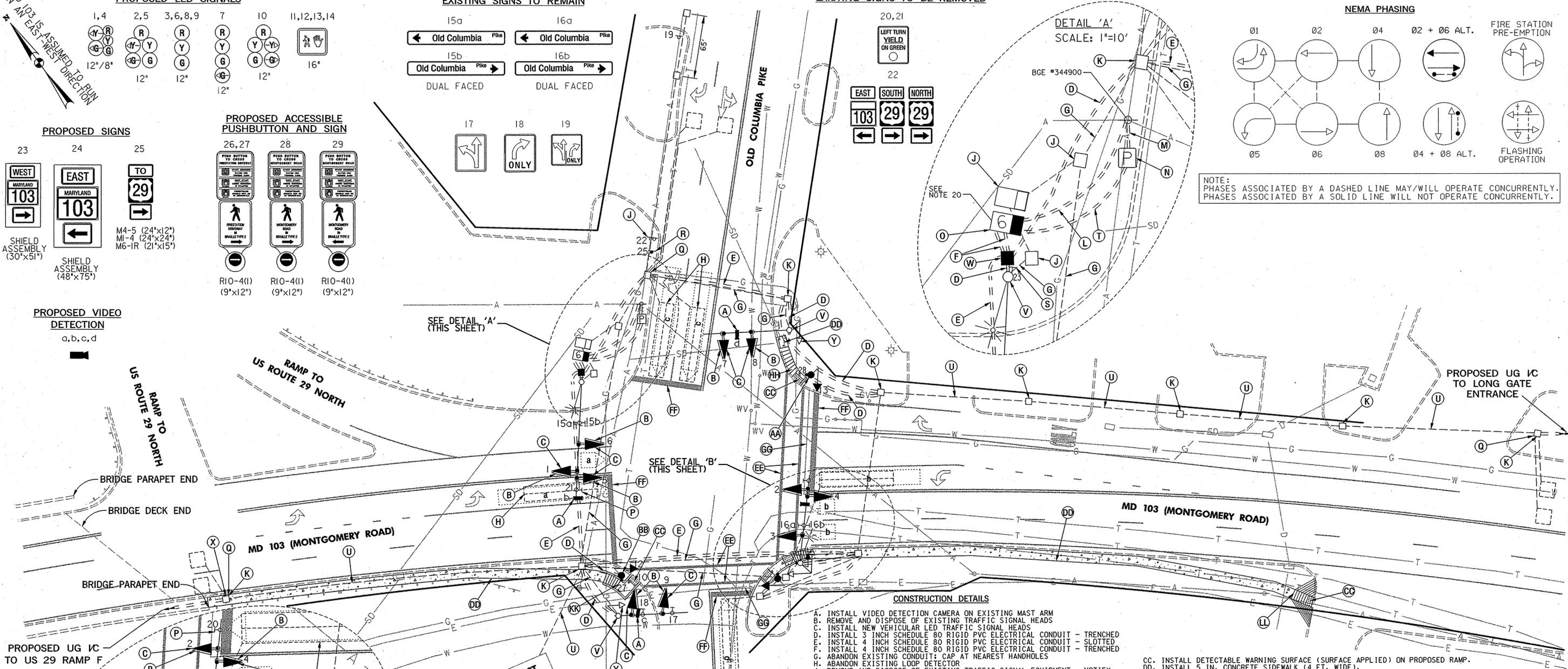
PROPOSED SIGNS



PROPOSED ACCESSIBLE PUSHBUTTON AND SIGN



PROPOSED VIDEO DETECTION



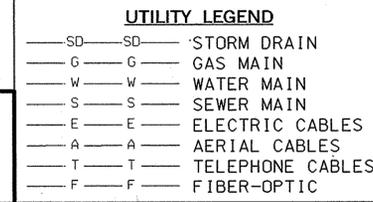
CONSTRUCTION DETAILS

- A. INSTALL VIDEO DETECTION CAMERA ON EXISTING MAST ARM
- B. REMOVE AND DISPOSE OF EXISTING TRAFFIC SIGNAL HEADS
- C. INSTALL NEW VEHICULAR LED TRAFFIC SIGNAL HEADS
- D. INSTALL 3 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
- E. INSTALL 4 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - SLOTTED
- F. INSTALL 4 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
- G. ABANDON EXISTING CONDUIT; CAP AT NEAREST HANDHOLES
- H. ABANDON EXISTING LOOP DETECTOR TRAFFIC SIGNAL EQUIPMENT. NOTIFY THE SHA SIGNAL SHOP TO SALVAGE THE CABINET AND CONTROLLER EQUIPMENT.
- J. USE EXISTING HANDHOLE
- L. INSTALL 2 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED) FOR PROPOSED UNDERGROUND TELEPHONE SERVICE. CAP AND MARK CONDUIT AT UTILITY POLE FOR USE BY OTHERS
- M. INSTALL 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED FOR UNDERGROUND POWER SERVICE (TO BE INSTALLED BY BALTIMORE GAS & ELECTRIC). THE CONTRACTOR SHALL CAP, MARK, AND LEAVE A 1 FOOT STUB WITH PULL STRING AT BASE OF UTILITY POLE FOR USE BY OTHERS.
- N. INSTALL METERED SERVICE PEDESTAL (NOTE: 2-4 IN. 90 DEGREE BENDS)
- O. INSTALL NEMA SIZE "6" BASE MOUNTED CABINET AND MASTER CONTROLLER WITH ALL NECESSARY EQUIPMENT (NOTE: 1-2 IN. AND 3-4 IN. 90 DEGREE BENDS)
- P. REMOVE OVERHEAD SIGN
- Q. SPLICE EXISTING LOOP DETECTOR WIRES TO NEW 2 CONDUCTOR (ALUMINUM SHIELDED) WIRES
- R. INSTALL GROUND MOUNTED SIGN (NO. 25) ON ONE 4 IN. X 6 IN. WOOD POST
- S. INSTALL OVERHEAD SIGN
- T. INSTALL 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED FOR UNDERGROUND POWER SERVICE
- U. USE EXISTING CONDUIT
- V. INSTALL 1-3 IN. PVC 90 DEGREE BEND IN EXISTING SIGNAL POLE FOUNDATION; CAP EXISTING 2 INCH BEND WHEN TRAFFIC SIGNAL MODIFICATION IS FUNCTIONAL.
- W. INSTALL ELECTRICAL HANDHOLE
- X. ADJUST EXISTING HANDHOLE TO GRADE
- Y. REMOVE AND DISPOSE OF EXISTING PEDESTRIAN SIGNAL HEAD(S) AND PUSH BUTTON.
- Z. INSTALL NEW LED PEDESTRIAN SIGNAL HEAD ON EXISTING MAST ARM POLE, ACCESSIBLE/TACTILE PEDESTRIAN PUSHBUTTON AND R10-4(1) SIGN TO READ "PUSHBUTTON TO CROSS MONTGOMERY ROAD"
- AA. INSTALL 14 FT. BREAKAWAY PEDESTAL POLE WITH LED PEDESTRIAN SIGNAL HEAD, ACCESSIBLE/TACTILE PEDESTRIAN PUSHBUTTON AND R10-4(1) SIGN TO READ "PUSH BUTTON TO CROSS MONTGOMERY ROAD". (NOTE: 1-3 IN. PVC 90 DEGREE BEND)
- BB. INSTALL 14 FT. BREAKAWAY PEDESTAL POLE WITH LED PEDESTRIAN SIGNAL HEAD, ACCESSIBLE/TACTILE PEDESTRIAN PUSHBUTTON AND R10-4(1) SIGN TO READ "PUSHBUTTON TO CROSS FIRESTATION DRIVEWAY". (NOTE: 1-3 IN. PVC 90 DEGREE BEND)
- CC. INSTALL DETECTABLE WARNING SURFACE (SURFACE APPLIED) ON PROPOSED RAMP.
- DD. INSTALL 5 IN. CONCRETE SIDEWALK (4 FT. WIDE).
- EE. INSTALL 12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS FOR CROSSWALK.
- FF. INSTALL 24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS FOR STOPLINE.
- GG. REMOVE EXISTING PERMANENT PAVEMENT MARKINGS.
- HH. CONSTRUCT SHA STD. 655.12 HANDICAP RAMP (4 FT. X 4 FT. LANDING/8 FT. SIDE FLARE). CONSTRUCT STANDARD TYPE A CURB ONLY (SHA STD. 620.02) IN LIEU OF OTHER FLARE.
- JJ. CONSTRUCT SHA STD. 655.12 HANDICAP RAMP (4 FT. X 4 FT. LANDING/7 FT. SIDE FLARE). CONSTRUCT ONLY PORTION OF SIDEWALK RAMP SHOWN. CONSTRUCT SIDEWALK AS SPECIFIED ON THIS PLAN IN LIEU OF OTHER FLARE.
- KK. CONSTRUCT SHA STD. 655.12 HANDICAP RAMP (4 FT. X 6 FT. LANDING/6 FT. SIDE FLARE). CONSTRUCT ONLY PORTION OF SIDEWALK RAMP SHOWN. CONSTRUCT STANDARD TYPE A CURB ONLY (SHA STD. 620.02) IN LIEU OF OTHER FLARE.
- LL. CONSTRUCT SHA STD. 655.11 HANDICAP RAMP (4 FT. X 4 FT. LANDING/8 FT. SIDE FLARE).
- MM. CONSTRUCT SHA STD. 655.12 HANDICAP RAMP (4 FT. X 4 FT. LANDING). CONSTRUCT STANDARD TYPE A CURB (SHA STD. 620.02) IN LIEU OF OTHER FLARE. CONSTRUCT SIDEWALK AS SPECIFIED ON THIS PLAN IN LIEU OF OTHER FLARE.

GENERAL NOTES

1. THE CONTRACTOR SHALL DISPOSE OF ALL TRAFFIC SIGNAL HEADS THAT ARE TO BE REPLACED AS SHOWN ON THIS PLAN
2. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING MSHA STANDARD PLATES FOR TRAFFIC CONTROL.
3. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. IF THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
4. THE SHA SIGNAL SHOP WILL BE RESPONSIBLE FOR ALL INTERNAL CABINET WIRING.
5. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
6. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED WIRING.
7. THE CONTRACTOR SHALL COMPLETE THE INDIVIDUAL TRAFFIC SIGNAL MODIFICATIONS ALONG MD 103 PRIOR TO INSTALLATION OF INTERCONNECT CABLE.
8. SEE GENERAL INFORMATION SHEET FOR CONTROLLER, PEDESTAL POLE AND APS ASSOCIATED SIGNAL HEADS, CROSSWALK, STOPLINE, AND VIDEO DETECTION CAMERA LAYOUT.
9. WITHIN 36 IN. OF UNDERGROUND UTILITY LOCATIONS, THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE FOR FOUNDATION AND CONDUIT BY HAND.
10. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO LOCATE ANY EXISTING CONDUIT RUNS WHERE NEW SLOTTED CONDUIT IS PROPOSED IMMEDIATELY ADJACENT.
11. REWIRE EXISTING TRAFFIC SIGNAL EQUIPMENT PER WIRING DIAGRAM.
12. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
13. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, AND MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
14. ALL ACCESSIBLE PEDESTRIAN CONTROL EQUIPMENT SHALL BE DELIVERED TO THE SHA SIGNAL SHOP FOR TESTING AND PROGRAMMING PRIOR TO INSTALLATION. CONTACT MR. EDWARD RODENHIZER TO COORDINATE AT 410-787-7652.
15. THE CONTRACTOR SHALL CENTER THE PROPOSED CROSSWALKS ON NEWLY CONSTRUCTED RAMPS.
16. THE CONTRACTOR SHALL INSTALL SIDEWALK WITH A DEPTH OF 5 INCHES. THE 4 INCH CONCRETE SIDEWALK ITEM WAS INCREASED BY A FACTOR OF 1.25 TO ACCOUNT FOR THE ADDED DEPTH.
17. ALL TRAFFIC SIGNAL MODIFICATIONS SHALL BE CONSTRUCTED PRIOR TO SIDEWALK INSTALLATION.
18. PLACE THE 24 INCH DETECTABLE WARNING SURFACE ALONG THE FULLY DEPRESSED PORTION OF THE PROPOSED RAMP. THE MAT SHALL NOT EXTEND ONTO THE SIDE FLARES.
19. THE CONTRACTOR SHALL COORDINATE WITH THE 2ND DISTRICT FIRE STATION WHEN INSTALLING NEW WIRING IN THE FIRE STATION (410-313-2602).
20. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO AVOID THE EXISTING CONDUIT RUN UNDER THE PROPOSED CABINET.

DETAIL 'B'
SCALE: 1"=10'



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TOD NO.: AT720-11
SHA No.:HO365A52/B52

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 103 (MONTGOMERY ROAD)
AND OLD COLUMBIA PIKE / 2ND DISTRICT FIRE STATION

APPROVALS	REVISIONS
TEAM LEADER	ADD VIDEO DETECTION/APS/PROVIDE SYSTEMATION/UPGRADE SIGNAL HEADS TO 08/2008
ASST. DIV.	SHA AT720-11
DIVISION CHIEF	REVISION DUE TO ADDITION OF FIRE STATION ACCESS
OFFICE DIRECTOR	REPLACED FAILED DETECTION

TRAFFIC SIGNALIZATION PLAN			
SCALE 1"=20'	DATE 12/22/80	CONTRACT NO. HO-426X-775	
DESIGNED BY	COUNTY	HOWARD	
DRAWN BY W. MONK	LOGMILE	13010307.24	
CHECKED BY	T. I. M. S. NO.	G823	
F.A.P. NO.	TOD NO.		
DRAWING NO. TS-177F	OF		SHEET NO. 3 OF 8