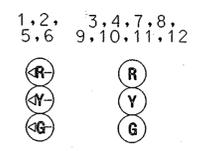
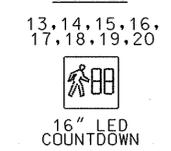


NOTE: MD 97 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

EXISTING SIGNALS TO REMAIN



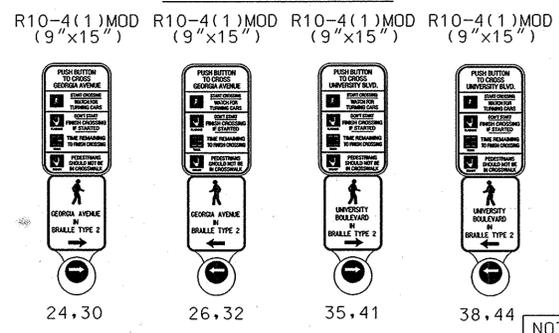
PROPOSED LED SIGNALS



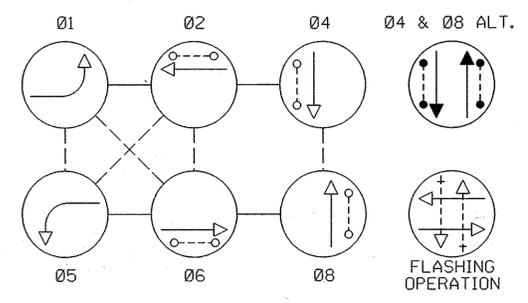
EXISTING SIGNALS TO BE REMOVED



PROPOSED ACCESSIBLE PUSHBUTTON AND SIGN

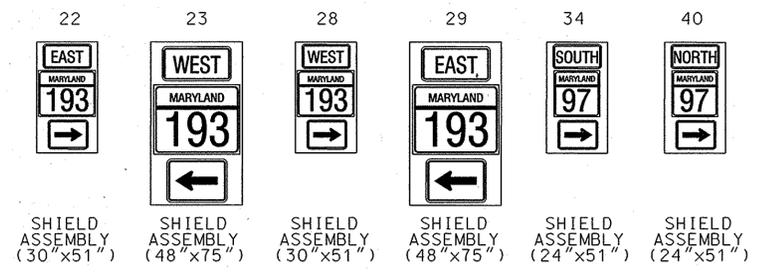


NEMA PHASING

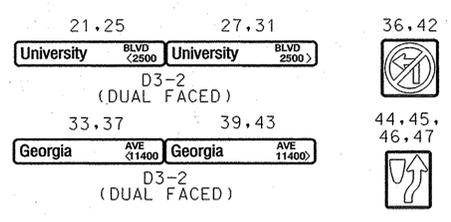


NOTE: PHASES ASSOCIATED BY A DASHED LINE MAY/WILL OPERATE CONCURRENTLY. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

PROPOSED SIGNS



EXISTING SIGNS TO REMAIN



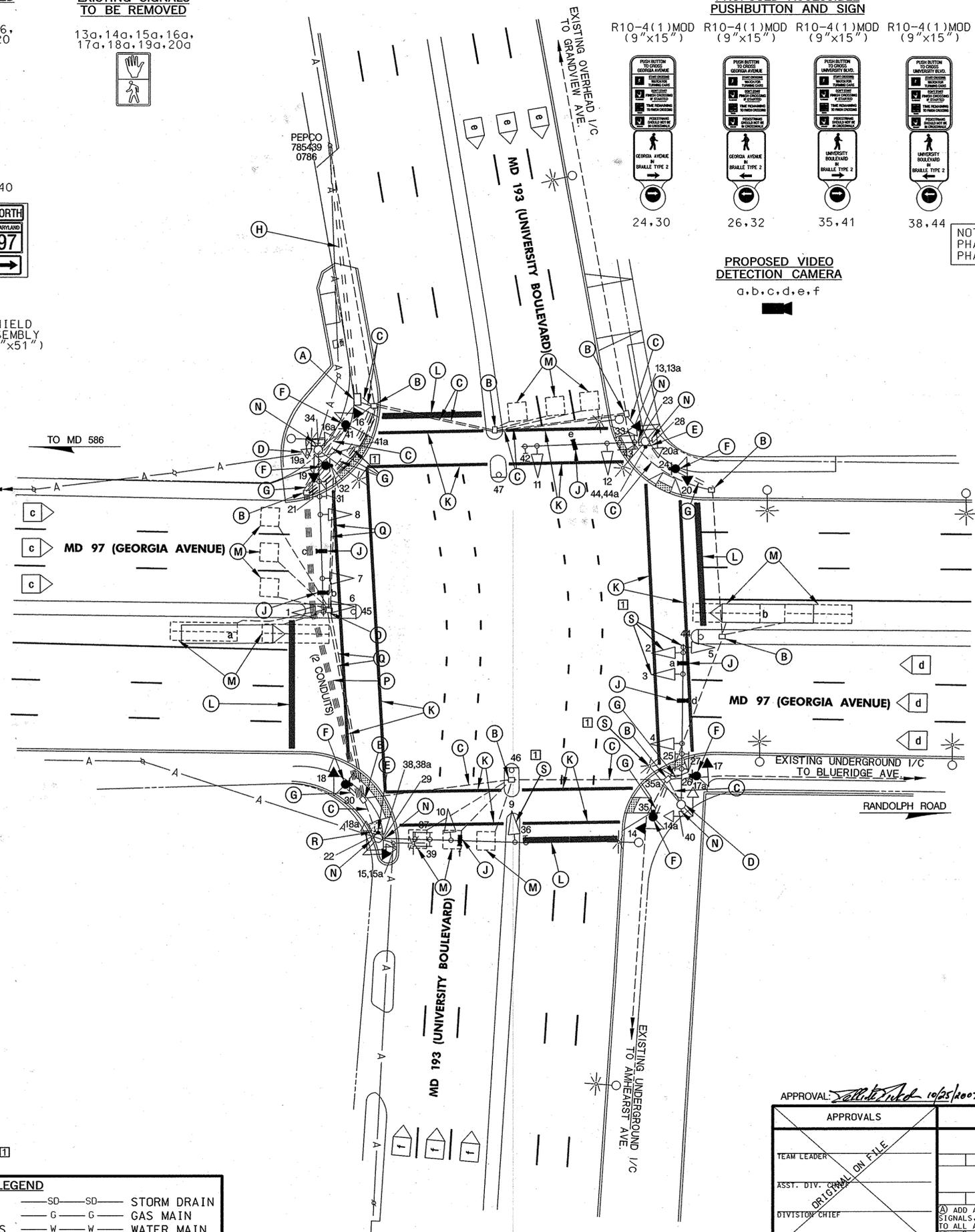
EXISTING SIGNS TO BE REMOVED



CONSTRUCTION DETAILS

- A. INSTALL ONE 2 IN. 90 DEGREE BEND IN THE EXISTING BASE MOUNTED CABINET
- B. USE EXISTING HANDHOLE
- C. USE EXISTING CONDUIT
- D. REMOVE EXISTING SIGN AND PEDESTRIAN SIGNAL HEADS
- E. REMOVE EXISTING SIGN AND PEDESTRIAN SIGNAL HEADS AND INSTALL A NEW LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, ACCESSIBLE PEDESTRIAN PUSHBUTTON, AND SIGN R10-4(1)MOD "PUSH BUTTON TO CROSS UNIVERSITY BOULEVARD"
- F. INSTALL A 10 FT. BREAKAWAY PEDESTAL POLE WITH FOUNDATION, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, ACCESSIBLE PEDESTRIAN PUSHBUTTON, AND SIGN R10-4(1)MOD "PUSH BUTTON TO CROSS GEORGIA AVENUE OR UNIVERSITY BOULEVARD" (NOTE: 1-3 IN. PVC 90 DEGREE BEND) (SEE NOTE 15)
- G. INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED (SEE NOTE 15)
- H. INSTALL 2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (SLOTTED) FOR PROPOSED TELEPHONE SERVICE. THE CONTRACTOR SHALL CAP, MARK AND LEAVE A 1 FT. STUB WITH PULL STRING AT BASE OF UTILITY POLE FOR USE BY OTHERS (SEE NOTE 5)
- J. INSTALL VIDEO DETECTION CAMERA ON EXISTING MAST ARM
- K. INSTALL 12 IN. WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKING FOR CROSSWALK
- L. INSTALL 24 IN. WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKING FOR STOPLINE
- M. ABANDON EXISTING LOOP DETECTOR
- N. INSTALL OVERHEAD SIGN
- O. REMOVE ELECTRICAL HANDHOLE
- P. INSTALL 2-4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - SLOTTED (SEE NOTE 5)
- Q. ABANDON EXISTING CONDUIT - CAP AT NEAREST HANDHOLE
- R. CONSTRUCT A 5 FT. x 5 FT. CONCRETE PAD
- S. INSTALL NEW SIGNAL CABLE (SEE WIRING DIAGRAM ON GI SHEET) □

EXISTING OVERHEAD I/C TO VEIRS MILL RD.



GENERAL NOTES

1. MAINTENANCE OF TRAFFIC SHALL BE HANDLED BY THE CONTRACTOR UTILIZING THE MSHA STANDARD PLATES FOR TRAFFIC CONTROL.
2. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE, RAMP, AND PUSHBUTTON LOCATIONS PRIOR TO INSTALLATION.
3. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL MODIFICATION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING AND PROPERLY LABELING ALL SIGNAL CABLES. THE SHA SIGNAL SHOP WILL BE RESPONSIBLE FOR ALL INTERNAL CABINET WIRING.
5. THE CONTRACTOR IS TO REMOVE THE BRICK/CONCRETE SIDEWALK AND REPLACE IT TO ITS ORIGINAL LAYOUT.
6. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
7. 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.
8. 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.
9. THE CONTRACTOR SHALL CENTER THE PROPOSED CROSSWALKS WITH THE PROPOSED RAMPS.
10. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE TO THE MSHA STANDARDS.
11. ALL ACCESSIBLE PEDESTRIAN EQUIPMENT SHALL BE DELIVERED TO MONTGOMERY COUNTY FOR TESTING AND PROGRAMMING PRIOR TO INSTALLATION. CONTACT MR. KEITH LORD AT 301-279-1291 TO COORDINATE.
12. WITHIN 36 IN. OF UNDERGROUND UTILITY LOCATIONS, THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE FOR FOUNDATION AND CONDUIT BY HAND.
13. SEE GENERAL INFORMATION SHEET FOR PEDESTAL POLE AND APS DETAIL LAYOUT.
14. THE CONTRACTOR SHALL CONTACT MCDPW&T TMC AT 240-777-2100, 72 HOURS PRIOR TO MARK UNDERGROUND SIGNAL EQUIPMENT.
15. THE CONTRACTOR MUST COORDINATE THE PROPOSED APS PEDESTAL POLE LOCATIONS WITH THE CONSTRUCTION OF THE PROPOSED SIDEWALK RAMPS. REFER TO DETAIL SHEETS IN THE IFB FOR PROPOSED RAMP STANDARDS, STATIONS, AND OFFSETS.
16. LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.09 AND FIG. 4E.2; AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE." IF NOT MET, THE CONTRACTOR IS TO STOPWORK ON PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 97 (GEORGIA AVENUE) AND MD 193 (UNIVERSITY BOULEVARD)

APPROVAL: *[Signature]* 10/25/2007 □ REDLINE REVISION 10-5-2007

APPROVALS	REVISIONS
TEAM LEADER	
ASST. DIV. CHIEF	
DIVISION CHIEF	
OFFICE DIRECTOR	

TRAFFIC SIGNALIZATION PLAN			
SCALE	1"=20'	DATE	03/27/00
CONTRACT NO.		DESIGNED BY	ASR
		COUNTY	MONTGOMERY
		DRAWN BY	TEL
		LOGMILE	15009703.47
		CHECKED BY	BLM
		T. I. M. S. NO.	H326
		F. A. P. NO.	
		TOD NO.	
DRAWING NO.	TS-211A	OF	
SHEET NO.		OF	

PLOTTED: MONDAY, OCTOBER 08, 2007 AT 09:28 AM
FILE: I:\PROJECTS\0312513\0312513_0018\DRAWINGS\TRAFFIC\MD 193\PSG-P000_M0193.DGN

STV Incorporated
engineers/architects/planners/construction managers
7125 Ambassador Road Baltimore, MD 21244-2722 (410) 944-9112

UTILITY LEGEND

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

BY: THOMPSON