

MD 586 IS ASSUMED TO RUN IN AN EAST/WEST DIRECTION

TO MD 28

MD 586 (VEIRS MILL RD.)

RIGHT OF WAY

CONSTRUCTION DETAILS:

- A. INSTALL CONCRETE FOUNDATION FOR A 27 FT. STEEL POLE WITH 50 FT. MAST ARMS WITH LED TRAFFIC SIGNAL HEADS, SIGN AND VIDEO DETECTION CAMERA. INSTALL COUNTDOWN PEDESTRIAN SIGNAL AND MONTGOMERY COUNTY SPLICE CABINET WITH A SLIP FITTER TO BE SUPPLIED BY MONTGOMERY COUNTY (NOTE: INSTALL 1-3 IN. AND 1-2 IN. PVC SCHEDULE 80 CONDUIT BEND).
- B. INSTALL CONCRETE FOUNDATION FOR A 16' 6" STEEL POLE (STD. NO. 818.13-01) WITH A 50 FT. MAST ARM WITH LED TRAFFIC SIGNAL HEADS, SIGN AND VIDEO DETECTION CAMERA. (NOTE: INSTALL 1-3 IN. AND 1-2 IN. PVC SCHEDULE 80 CONDUIT BEND).
- C. INSTALL CONCRETE FOUNDATION FOR A 27 FT. STEEL POLE WITH 38 FT. MAST ARMS WITH LED TRAFFIC SIGNAL HEADS, SIGN AND VIDEO DETECTION CAMERA. (NOTE: INSTALL 1-3 IN. AND 1-2 IN. PVC SCHEDULE 80 CONDUIT BEND).
- D. INSTALL CONCRETE FOUNDATION FOR A 16' 6" STEEL POLE (STD. NO. 818.13-01) WITH A 50 FT. MAST ARM WITH LED TRAFFIC SIGNAL HEADS, SIGN, VIDEO DETECTION CAMERA AND 15 FT. LIGHTING ARM WITH 250 WATT HPS LUMINAIRE AS SHOWN. (NOTE: INSTALL 1-3 IN. AND 1-2 IN. PVC SCHEDULE 80 CONDUIT BEND).
- E. INSTALL 10' PEDESTAL POLE WITH BREAKAWAY COUPLINGS (MD 818.16-01), AND MODIFIED BASE, COUNTDOWN PEDESTRIAN SIGNAL, AUDIBLE TACTILE PUSHBUTTON AND SIGN. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND).
- F. INSTALL NEMA 6 BASE-MOUNTED CABINET AND CONTROLLER WITH ALL NECESSARY EQUIPMENT AS SHOWN. (NOTE: INSTALL 2-2 IN. AND 2-4 IN. PVC SCHEDULE 80 BENDS).
- G. INSTALL METERED SERVICE PEDESTAL EMBEDDED.
- H. INSTALL HANDHOLE.
- J. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
- K. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- L. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- M. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- N. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- P. INSTALL 24 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR STOP LINE.
- Q. INSTALL 10' PEDESTAL POLE (CUT TO 5 FT.) WITH BREAKAWAY COUPLINGS (MD 818.16-01), AND MODIFIED BASE, AUDIBLE TACTILE PUSHBUTTON AND SIGN. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND).
- R. INSTALL 5 IN. HEAT APPLIED, WHITE PERMANENT PAVEMENT PERFORMED LINE MARKINGS.
- S. INSTALL GROUND MOUNTED SIGNS AND 4" X 4" WOOD SUPPORT. (WOOD SUPPORTS INSTALLED IN CONCRETE SHALL BE INSTALLED WITH SLEEVED FOUNDATIONS AS PER STANDARD MD 812.05-01 AND MD 812.05-02)
- T. PULL BACK INTERCONNECT CABLE, DEAD END THEN RUN OVER TO NEW MAST ARM POLE. INSTALL 3" WEATHER HEAD ON NEW MAST ARM POLE.
- U. PULL BACK AND REDIRECT EXISTING INTERCONNECT CABLE TO THE NEW CABINET THROUGH THE NEW HANDHOLES AND CONDUITS.
- V. REMOVE EXISTING SIGNAL CABINET 12 IN. BELOW GRADE.
- W. REMOVE EXISTING SIGNAL POLE AND SPAN WITH ALL ATTACHED EQUIPMENT. REMOVE FOUNDATION 12 IN. BELOW GROUND GRADE.
- X. REMOVE EXISTING POLE AND FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
- Y. REMOVE EXISTING HANDHOLE.
- Z. REMOVE EXISTING SIGN AND POSTS.
- AA. REMOVE EXISTING PAVEMENT MARKING.
- BB. REMOVE CROSS HATCHING IN EXISTING CROSSWALK.
- CC. INSTALL PAVEMENT MARKING ARROW/WORD, HEAT APPLIED AND WHITE PERMANENT PREFORMED THERMOPLASTIC. [1]

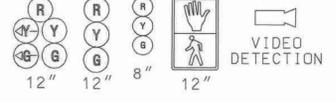
GEOMETRIC LEGEND
 --- EXISTING
 --- PROPOSED

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

EXISTING SIGNS TO BE REMOVED



EXISTING EQUIPMENT TO BE REMOVED



EXISTING SIGNS TO REMAIN



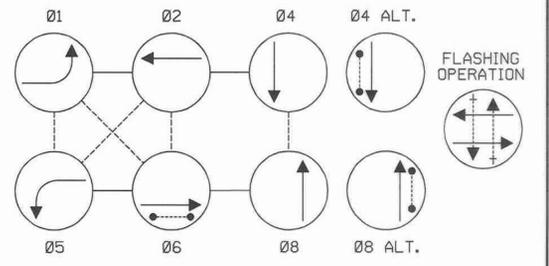
TWINBROOK SHOPPING CENTER

PROPOSED SIGNS

- 19a, 21b Atlantic Ave <13200> D-3(2) (VAR. X16")
- 19b, 21a Atlantic Ave >13200> D-3(2) (VAR. X16")
- 22 ONLY R3-5(R) (30"x36")
- 24 R3-4 (30"x30")
- 23, 27 R4-7 (24"x30")
- 25a, 26b Veirs Mill Rd >2100> D-3(2) (VAR. X16")
- 25b, 26a Veirs Mill Rd <2100 D-3(2) (VAR. X16")
- 28 OVER 1 TON R5-2 MODIFIED (30"x30")
- 29, 31 PUSH BUTTON TO OPEN VEIRS MILL RD. PEDESTRIAN SIGNAL
- 30, 32 PUSH BUTTON TO OPEN ATLANTIC AVE. PEDESTRIAN SIGNAL
- 33 ATLANTIC AVE. PEDESTRIAN SIGNAL
- 34 ATLANTIC AVE. PEDESTRIAN SIGNAL

R10-3(1) 9" x 15" R10-3(1) 9" x 15" R10-3(1) 9" x 15" R10-3(1) 9" x 15"

NEMA PHASING



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

PROPOSED EQUIPMENT

- 1, 2 3, 6, 7, 8, 9 4, 5 10, 11, 12
- 12" 12"
- 13-18
- 16" LED COUNTDOWN PEDESTRIAN SIGNAL
- a, b, c, d
- PROPOSED VIDEO DETECTION

GENERAL NOTES:

1. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
2. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
3. FOR FINAL PAVEMENT MARKINGS REFER TO THE PAVEMENT MARKING PLANS, OTHER THAN THOSE DETAILED ON THE PLAN. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
4. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE (EXCLUDING INTERCONNECT) TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
6. 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.
7. 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.
8. THE CONTRACTOR SHOULD NOTIFY MR. KAMAL HAMUD AT LEAST 72 HOURS PRIOR TO BEGINNING WORK AT THE INTERSECTION.
9. THE CONTRACTOR SHOULD DELIVER THE APS PUSH BUTTONS TO MR. KEITH LORD AT THE MONTGOMERY COUNTY TECHNICAL CENTER FOR PROGRAMMING AT LEAST TWO WEEKS PRIOR TO BEGINNING WORK.
10. THERE IS MONTGOMERY COUNTY FIBER OPTIC CABLE IN THIS AREA, LASHED TO THE I/C IN SPOTS. ALL I/C WORK SHOULD BE COORDINATED WITH MR. KEITH LORD TO ENSURE PROPER HANDLING OF THE I/C AND FIBER.

[1] RED LINE REVISION NO.1 5/13/2010

INSTALL PAVEMENT MARKINGS FOR WESTBOUND MD 586 RIGHT TURN LANE.
 TEDD APPROVAL: [Signature] 5/24/2010

SHA STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 OFFICE OF TRAFFIC & SAFETY
 TRAFFIC ENGINEERING DESIGN DIVISION
 MD 586 (VEIRS MILL RD) AND ATLANTIC AVENUE
 TRAFFIC SIGNAL RECONSTRUCTION
 ROCKVILLE, MD

SIGNALIZATION PLAN SHEET

SCALE 1"=20'	ADVERTISED DATE 04/20/10	CONTRACT NO. M-297-501-385
DESIGNED BY R.T.	COUNTY MONTGOMERY	
DRAWN BY B.T.	LOGMILE 15058601.25	
CHECKED BY	TMS NO. J551	
F.A.P. NO.	TOD NO. M0717-08	
TS NO. 804B	DRAWING - OF	SHEET NO. 1 OF 3

APPROVALS	REVISIONS
TEAM LEADER	3/10 TMS NO. J551 SHA NO. XXX3515168 TRAFFIC SIGNAL RECONSTRUCTION WITH APS/CPS UPGRADE
ASST. DIV. CHIEF	X.M
DIVISION CHIEF	2/05 TMS NO. 0593 SHA NO. M0717A59/059
OFFICE DIRECTOR	REPLACE LOOP DETECTION WITH VIDEO CAMERAS
	J.A.

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