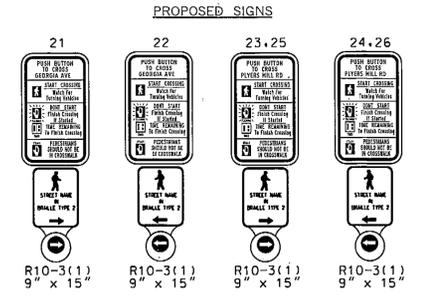
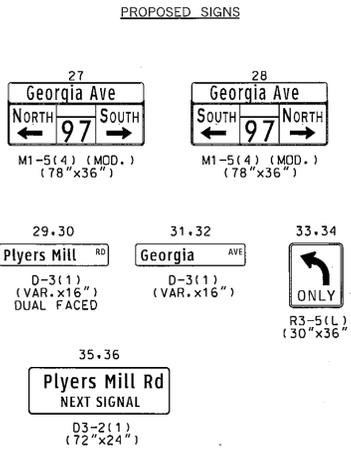
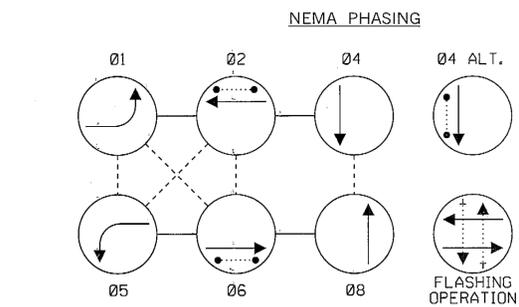
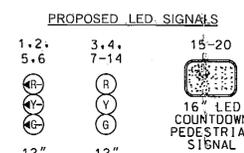
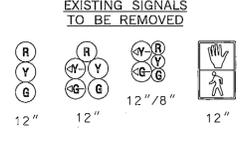


MD 97 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION



**2] UTILITY HEIGHTS**

PRIMARY	34' +
NEUTRAL	30'-0"
COMM.	28'-8"
COMM.	25'-2"
COMM.	23'-6"
COMM.	21'-3"
CCTV FIBER	20'-1"
GUY	18'-11"
COMM.	18'-0"



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

**GENERAL NOTES**

- VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE MONTGOMERY COUNTY ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABELING EACH CABLE. ALL INTERNAL CABINET WIRING SHALL BE PERFORMED BY MONTGOMERY COUNTY FORCES.
- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
- 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 THE APPROPRIATE 800 SERIES STANDARD PLATES. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
- MONTGOMERY COUNTY FORCES SHALL RELOCATE THE EXISTING CCTV CABINET, CONTROLLER AND CAMERA. MONTGOMERY COUNTY FORCES SHALL REMOVE THE SIGNAL CONTROLLER. ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL MODIFICATIONS.
- ALL UNUSED SIGNAL CABLES SHALL BE REMOVED AND DISPOSED.
- THE CONTRACTOR SHALL MAINTAIN THE CONTINUOUS OPERATION OF ALL INTERCONNECT, VEHICULAR, PEDESTRIAN DETECTORS, AND LIGHTING DEVICES. IF ANY DEVICE IS DAMAGED BY THE CONTRACTOR, IT SHALL BE REPAIRED WITHIN 72 HOURS BY THE CONTRACTOR AT NO COST TO SHA AFTER NOTIFICATION BY THE ENGINEER.
- ALL PAVEMENT MARKINGS SHALL BE INSTALLED PER SHA STANDARDS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERING THE SIGNAL CABINET VIDEO INTERFACE EQUIPMENT TO THE MONTGOMERY COUNTY SIGNAL SHOP.
- CONTRACTOR SHALL DELIVER APS PUSHBUTTONS AND CENTRAL CONTROL UNIT TO MR. ROBERT RICKETTS AT MONTGOMERY COUNTY TECHNICAL CENTER AT 1283 SEVEN LOCKS ROAD, ROCKVILLE, MD 20854 AT LEAST 3 WEEKS PRIOR TO BEGINNING WORK. CONTRACTOR SHALL HAVE THE APS MESSAGES PROGRAMMED FROM THE FACTORY AND DELIVER THE APS WAVE FILES TO MR. ROBERT RICKETTS.
- CONTRACTOR SHALL NOTIFY MR. KAMAL HAMUD AND MR. ROBERT RICKETTS 72 HOURS IN ADVANCE OF INTENDED WORK.

**APS NOTES**

- PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18" FROM A 60"x60" LEVEL LANDING AREA WITH A CROSS SLOPE LESS THAN OR EQUAL TO 2%.
- THE 10' MINIMUM SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON. NOT CENTER OF POLE TO CENTER OF FACE.
- PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
- LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.09 AND FIGURE 4E.2 AND THE NCHRP PUBLICATION, ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE. IF NOT MET THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATION UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.

**CONSTRUCTION DETAILS**

- INSTALL 16.5 FT. MAST ARM POLE WITH A 38 FT. SPECIAL 'T' MAST ARM, LED SIGNAL HEADS, SIGNS, VIDEO DETECTION CAMERA, COUNTDOWN PEDESTRIAN SIGNAL HEADS, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON AND SIGN. (NOTE: INSTALL 1-2" AND 1-3" (SCHEDULE 80), 90 DEGREE CONDUIT BENDS).
- INSTALL 16.5 FT. MAST ARM POLE WITH A 50 FT. SPECIAL 'T' MAST ARM, LED SIGNAL HEADS, SIGNS, AND VIDEO DETECTION CAMERA. (NOTE: INSTALL 1-2" AND 1-3" (SCHEDULE 80), 90 DEGREE CONDUIT BENDS).
- INSTALL 27 FT. MAST ARM POLE (15-0 FT 'T' FLANGE) WITH A 50 FT. SPECIAL 'T' MAST ARM, LED SIGNAL HEADS, SIGNS AND VIDEO DETECTION CAMERA (NOTE: INSTALL 1-2" AND 1-3" (SCHEDULE 80), 90 DEGREE CONDUIT BENDS). MONTGOMERY COUNTY FORCES SHALL RELOCATE CCTV ARM WITH CAMERA EQUIPMENT FROM EXISTING STRAIN POLE TO THIS POLE.
- INSTALL 10 FT. PEDESTAL POLE ON MODIFIED BASE WITH BREAKAWAY COUPLINGS (MD 801.01-01), COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE-TACTILE PEDESTRIAN PUSHBUTTON AND SIGN. (NOTE: INSTALL 1-2" (SCHEDULE 80), 90 DEGREE CONDUIT BEND). INCORPORATE CONCRETE FOUNDATION INTO PROPOSED CURB.
- INSTALL 10 FT. PEDESTAL POLE ON MODIFIED BASE WITH BREAKAWAY COUPLINGS (MD 801.01-01), COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE-TACTILE PEDESTRIAN PUSHBUTTON AND SIGN. (NOTE: INSTALL 1-2" (SCHEDULE 80), 90 DEGREE CONDUIT BEND). INCORPORATE CONCRETE FOUNDATION INTO PROPOSED SIDEWALK.
- INSTALL NEMA 'S' TYPE BASE MOUNTED CABINET AND CONTROLLER AND ALL ASSOCIATED EQUIPMENT. (NOTE: INSTALL 2-2" AND 2-4" (SCHEDULE 80), 90 DEGREE CONDUIT BENDS).
- INSTALL PROPOSED EMBEDDED METERED SERVICE PEDESTAL. (NOTE: INSTALL 3-2" AND 1-4" (SCHEDULE 80), 90 DEGREE CONDUIT BENDS).
- INSTALL PROPOSED ELECTRICAL HANDHOLE.
- INSTALL 2 IN. SCHEDULE 80 PVC CONDUIT (TRENCHED).
- INSTALL 1-2 IN. AND 1-3 IN. SCHEDULE 80 PVC CONDUIT (TRENCHED).
- INSTALL 4 IN. SCHEDULE 80 PVC CONDUIT (TRENCHED).
- INSTALL 4 IN. SCHEDULE 80 PVC CONDUIT (SLOTTED).
- INSTALL GROUND MOUNTED SIGN ON 2-4"x4" BREAKAWAY WOOD SUPPORTS.
- INSTALL 12 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING (FOR CROSSWALK).
- INSTALL 24 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING (FOR STOP LINE).
- INSTALL PROPOSED WHITE THERMOPLASTIC PAVEMENT MARKING ARROW.
- INSTALL PROPOSED SIDEWALK AND SIDEWALK RAMP PER DETAIL SHEET.
- REMOVE EXISTING CABINET AND ALL ASSOCIATED EQUIPMENT.

**1] UTILITY HEIGHTS**

PRIMARY	43'
SECONDARY	28'-8"
SECONDARY	27'-5"
SECONDARY	27'-1"
GUY	23'-5"
COMM.	22'-2"
COMM.	21'-4"
COMM.	19'-2"

**3] UTILITY HEIGHTS**

PRIMARY	35' +
SECONDARY	25'-10"
COMM. (TRIPLEX)	22'-1"
COMM.	21'-4"
COMM.	20'-3"
COMM.	19'-1"
COMM.	18'-4"

**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

- REMOVE EXISTING STRAIN POLE AND ALL ASSOCIATED EQUIPMENT. REMOVE FOUNDATION 12" BELOW GRADE.
- REMOVE EXISTING SPAN WIRE, SIGNS, SIGNALS AND ALL ASSOCIATED EQUIPMENT.
- REMOVE EXISTING HANDHOLE, CAP AND ABANDON EXISTING CONDUIT. REMOVE ALL UNUSED WIRES.
- REMOVE EXISTING PAVEMENT MARKINGS.
- ABANDON EXISTING LOOP DETECTORS AND REMOVE ALL ASSOCIATED WIRING.
- INSTALL 4 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT (SLOTTED). STUB UP AT THE BASE OF PEPCO POLE 786435-3080 AND COIL 35 FT. EACH OF ADDITIONAL CABLE AT THE BASE OF THE POLE.
- EXISTING POWER FEED TO BE REMOVED BY PEPCO FORCES.
- INSTALL 3 IN. ELECTRICAL CONDUIT (TRENCHED). STUB UP AT BASE OF PEPCO POLE 786435-3686 AND COIL 20 FT. OF ADDITIONAL INTERCONNECT CABLE AT THE BASE OF POLE. MONTGOMERY COUNTY FORCES SHALL INSTALL INTERCONNECT SPICE CABINET ON EXISTING UTILITY POLE AND MAKE FINAL CONNECTIONS.
- REMOVE EXISTING 'PLYERS MILL RD' SIGN, EXISTING SCHOOL SIGN AND POST TO REMAIN. CUT OFF TOP OF SIGN SUPPORT.

**PARSONS BRINCKERHOFF**

100 S. Charles Street  
Tower 1, 10th Floor  
Baltimore, MD 21201  
(Ph) 410-787-5000  
(Fax) 410-727-6008  
http://www.pbworld.com

**APPROVALS**

TEAM LEADER: [Signature]

ASSIST. DIR. CHIEF: [Signature]

DESIGNATION CHIEF: [Signature]

OFFICE DIRECTOR: [Signature]

**REVISIONS**

NO.	DESCRIPTION	DATE
1	TRAFFIC SIGNAL RECONSTRUCTION APSCRS UPGRADE	09/25/2013
2	B LOOP REPLACEMENT	10/03/2013
3	A INSTALL PED SIGNALS ACROSS SOUTH LEG	02/20/2016
4	SHA NO. 1520035177	02/20/2016
5	SHA NO. 1520035177	02/20/2016
6	SHA NO. 1520035177	02/20/2016
7	SHA NO. 1520035177	02/20/2016
8	SHA NO. 1520035177	02/20/2016
9	SHA NO. 1520035177	02/20/2016
10	SHA NO. 1520035177	02/20/2016

**SIGNALIZATION PLAN SHEET**

SCALE: 1" = 20', DATE: SEPTEMBER 29, 1972, CONTRACT NO.: M-826-378

DESIGNED BY: [Name] COUNTY: MONTGOMERY

DRAWN BY: J.W.SCHMITT LOGMILE: 15009702.65

CHECKED BY: [Name] TMS NO. [Number]

F.A.P. NO. T-8004(2) TOD NO. [Number]

TS NO. 215C DRAWING SG-01 OF 03 SHEET NO. 01 OF 03

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 97 (GEORGIA AVE) AT PLYERS MILL RD  
SIGNAL RECONSTRUCTION

TOD NO: XY224-28  
SHA NO: M014585C  
MD 97 @ Plyers Mill Road

DRILL HOLES

DRILL HOLES

DRILL HOLES

BY: \$USERNAMES\$