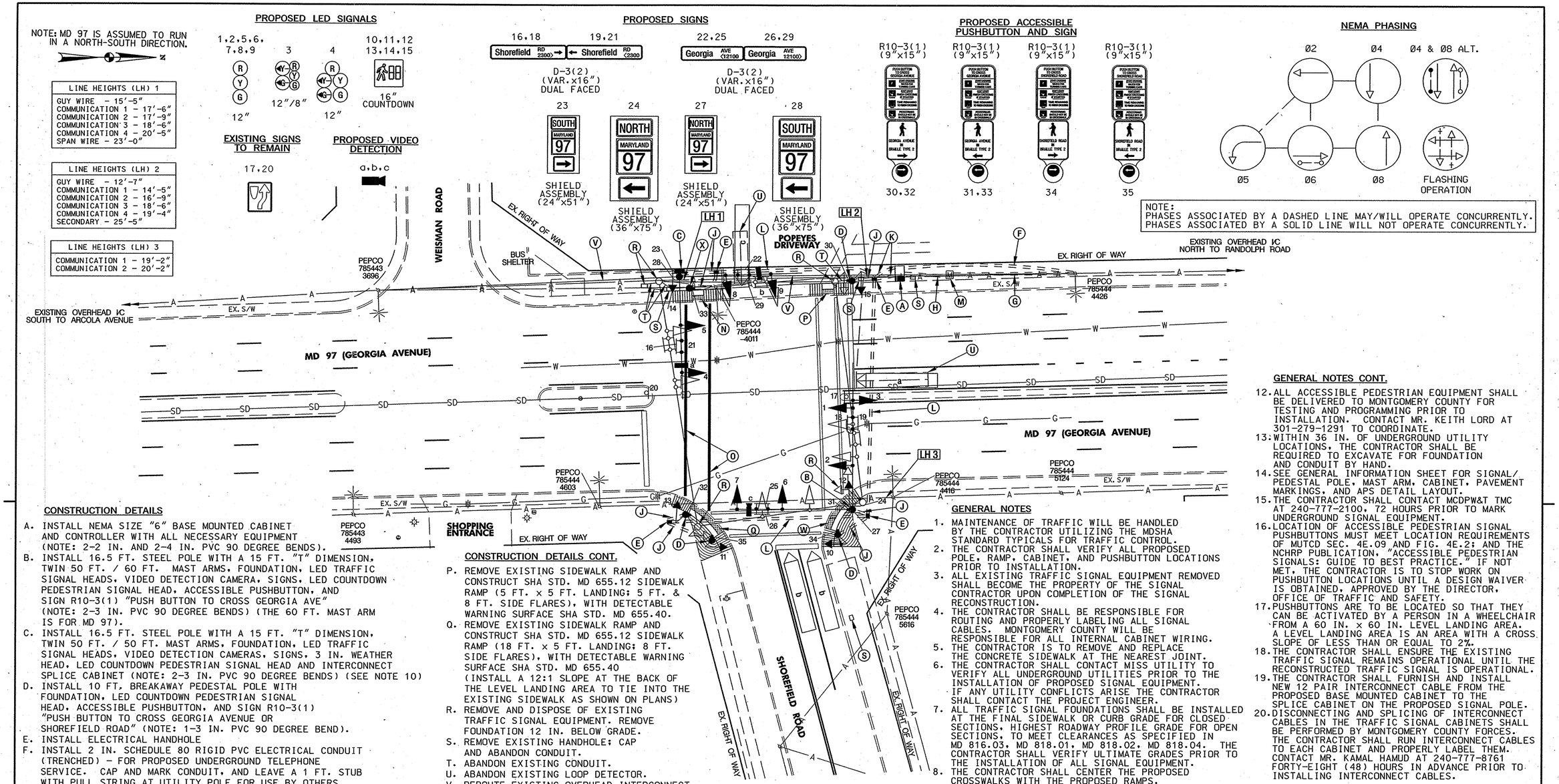
NOTE: MD 97 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

LINE HEIGHTS (LH) 1
GUY WIRE - 15'-5"
COMMUNICATION 1 - 17'-6"
COMMUNICATION 2 - 17'-9"
COMMUNICATION 3 - 18'-6"
COMMUNICATION 4 - 20'-5"
SPAN WIRE - 23'-0"

LINE HEIGHTS (LH) 2
GUY WIRE - 12'-7"
COMMUNICATION 1 - 14'-5"
COMMUNICATION 2 - 16'-9"
COMMUNICATION 3 - 18'-6"
COMMUNICATION 4 - 19'-4"
SECONDARY - 25'-5"

LINE HEIGHTS (LH) 3
COMMUNICATION 1 - 19'-2"
COMMUNICATION 2 - 20'-2"



CONSTRUCTION DETAILS

A. INSTALL NEMA SIZE "6" BASE MOUNTED CABINET AND CONTROLLER WITH ALL NECESSARY EQUIPMENT (NOTE: 2-2 IN. AND 2-4 IN. PVC 90 DEGREE BENDS).
B. INSTALL 16.5 FT. STEEL POLE WITH A 15 FT. "T" DIMENSION, TWIN 50 FT. / 60 FT. MAST ARMS, FOUNDATION, LED TRAFFIC SIGNAL HEADS, VIDEO DETECTION CAMERA, SIGNS, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, ACCESSIBLE PUSHBUTTON, AND SIGN R10-3(1) "PUSH BUTTON TO CROSS GEORGIA AVE" (NOTE: 2-3 IN. PVC 90 DEGREE BENDS) (THE 60 FT. MAST ARM IS FOR MD 97).
C. INSTALL 16.5 FT. STEEL POLE WITH A 15 FT. "T" DIMENSION, TWIN 50 FT. / 50 FT. MAST ARMS, FOUNDATION, LED TRAFFIC SIGNAL HEADS, VIDEO DETECTION CAMERAS, SIGNS, 3 IN. WEATHER HEAD, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD AND INTERCONNECT SPLICE CABINET (NOTE: 2-3 IN. PVC 90 DEGREE BENDS) (SEE NOTE 10)
D. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH FOUNDATION, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, ACCESSIBLE PUSHBUTTON, AND SIGN R10-3(1) "PUSH BUTTON TO CROSS GEORGIA AVENUE OR SHOREFIELD ROAD" (NOTE: 1-3 IN. PVC 90 DEGREE BEND).
E. INSTALL ELECTRICAL HANDHOLE
F. INSTALL 2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED) - FOR PROPOSED UNDERGROUND TELEPHONE SERVICE. CAP AND MARK CONDUIT, AND LEAVE A 1 FT. STUB WITH PULL STRING AT UTILITY POLE FOR USE BY OTHERS.
G. INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED) - FOR PROPOSED UNDERGROUND POWER SERVICE. CAP AND MARK CONDUIT, AND LEAVE A 1 FT. STUB WITH PULL STRING AT UTILITY POLE FOR USE BY OTHERS.
H. INSTALL 2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED).
J. INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED).
K. INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED).
L. INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (SLOTTED).
M. INSTALL METERED SERVICE PEDESTAL
N. REMOVE EXISTING SIDEWALK RAMP AND CONSTRUCT SHA STD. MD 655.12 SIDEWALK RAMP, WITH DETECTABLE WARNING SURFACE SHA STD. MD 655.40
O. INSTALL 12 IN. HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR CROSSWALK

CONSTRUCTION DETAILS CONT.

P. REMOVE EXISTING SIDEWALK RAMP AND CONSTRUCT SHA STD. MD 655.12 SIDEWALK RAMP (5 FT. x 5 FT. LANDING; 5 FT. & 8 FT. SIDE FLARES), WITH DETECTABLE WARNING SURFACE SHA STD. MD 655.40.
Q. REMOVE EXISTING SIDEWALK RAMP AND CONSTRUCT SHA STD. MD 655.12 SIDEWALK RAMP (18 FT. x 5 FT. LANDING; 8 FT. SIDE FLARES), WITH DETECTABLE WARNING SURFACE SHA STD. MD 655.40 (INSTALL A 12:1 SLOPE AT THE BACK OF THE LEVEL LANDING AREA TO TIE INTO THE EXISTING SIDEWALK AS SHOWN ON PLANS)
R. REMOVE AND DISPOSE OF EXISTING TRAFFIC SIGNAL EQUIPMENT. REMOVE FOUNDATION 12 IN. BELOW GRADE.
S. REMOVE EXISTING HANDHOLE; CAP AND ABANDON CONDUIT.
T. ABANDON EXISTING CONDUIT.
U. ABANDON EXISTING LOOP DETECTOR.
V. REROUTE EXISTING OVERHEAD INTERCONNECT CABLES FROM EXISTING UTILITY POLES TO SPLICE CABINET ON PROPOSED SIGNAL POLE
W. REMOVE EXISTING SIDEWALK RAMP AND CONSTRUCT SHA STD. MD 655.12 SIDEWALK RAMP (13 FT. x 5 FT. LANDING 8 FT. SIDE FLARES), WITH DETECTABLE WARNING SURFACE SHA STD. MD 655.40. (INSTALL A 12:1 SLOPE AT THE BACK OF THE LEVEL LANDING AREA TO TIE INTO THE EXISTING SIDEWALK AS SHOWN ON PLANS)
X. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE (CUT TO 5 FT.) WITH FOUNDATION, ACCESSIBLE PUSHBUTTON, AND SIGN R10-3(1) "PUSH BUTTON TO CROSS GEORGIA AVE." (NOTE: 1-3 IN. PVC 90 DEGREE BEND)

GENERAL NOTES

1. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING THE MDSHA STANDARD TYPICALS FOR TRAFFIC CONTROL.
2. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE, RAMP, CABINET, 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 RECONSTRUCTION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING AND PROPERLY LABELING ALL SIGNAL CABLES. MONTGOMERY COUNTY WILL BE RESPONSIBLE FOR ALL INTERNAL CABINET WIRING.
5. THE CONTRACTOR IS TO REMOVE AND REPLACE THE CONCRETE SIDEWALK AT THE NEAREST JOINT.
6. 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.
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 SHALL CENTER THE PROPOSED CROSSWALKS WITH THE PROPOSED RAMPS.
9. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MDSHA STANDARDS.
10. THE CONTRACTOR SHALL CONTACT PEPCO IF NECESSARY TO RELOCATE EXISTING GUY WIRE IN SOUTHWEST CORNER.
11. THE CONTRACTOR SHALL INSTALL 4 IN. CONCRETE SIDEWALK AT A DEPTH OF 5 IN. THE 4 IN. ITEM QUANTITY HAS BEEN INCREASED BY A FACTOR OF 1.25 TO ACCOUNT FOR THE ADDED DEPTH.

GENERAL NOTES CONT.

12. 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.
13. WITHIN 36 IN. OF UNDERGROUND UTILITY LOCATIONS, THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE FOR FOUNDATION AND CONDUIT BY HAND.
14. SEE GENERAL INFORMATION SHEET FOR SIGNAL/ PEDESTAL POLE, MAST ARM, CABINET, PAVEMENT MARKINGS, AND APS DETAIL LAYOUT.
15. THE CONTRACTOR SHALL CONTACT MCDPW&T TMC AT 240-777-2100, 72 HOURS PRIOR TO MARK UNDERGROUND SIGNAL EQUIPMENT.
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 STOP WORK ON PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
17. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR FROM A 60 IN. x 60 IN. LEVEL LANDING AREA. A LEVEL LANDING AREA IS AN AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
18. THE CONTRACTOR SHALL ENSURE THE EXISTING TRAFFIC SIGNAL REMAINS OPERATIONAL UNTIL THE RECONSTRUCTED TRAFFIC SIGNAL IS OPERATIONAL.
19. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW 12 PAIR INTERCONNECT CABLE FROM THE PROPOSED BASE MOUNTED CABINET TO THE SPLICE CABINET ON THE PROPOSED SIGNAL POLE.
20. DISCONNECTING AND SPLICING OF INTERCONNECT CABLES IN THE TRAFFIC SIGNAL CABINETS SHALL BE PERFORMED BY MONTGOMERY COUNTY FORCES. THE CONTRACTOR SHALL RUN INTERCONNECT CABLES TO EACH CABINET AND PROPERLY LABEL THEM. CONTACT MR. KAMAL HAMUD AT 240-777-8761 FORTY-EIGHT (48) HOURS IN ADVANCE PRIOR TO INSTALLING INTERCONNECT CABLES.

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

BY: THOMPSMA

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

APPROVALS	
TEAM LEADER	ORIGINAL ON FILE
ASST. DIV. CHIEF	
DIVISION CHIEF	
OFFICE DIRECTOR	

REVISIONS	
D FULL RECONSTRUCTION OF EXISTING SIGNAL; ADD SOUTH LEG PED CROSSING	3/2007 SHA* AT915185
STV MCG	
C REPLACE SB LT LOOP	12/2006 SHA* M05665177
STV SBS	
B. AS-BUILT	6-18-85
855-25003	

PLOTTED: THURSDAY, MARCH 29, 2007 AT 08:29 AM
FILE: I:\PROJECTS\0312513\0312513.0047\DRAWINGS\TRA\SHOREFIELD ROAD REBUILD\PSG-P000_SHOREFIELD.DGN

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 97 (GEORGIA AVENUE) AT SHOREFIELD ROAD

TRAFFIC SIGNALIZATION PLAN

SCALE 1" = 20' DATE 10/22/1984 CONTRACT NO.

DESIGNED BY
DRAWN BY BRUCE THOMPSON
CHECKED BY
F.A.P. NO.
COUNTY MONTGOMERY
LOGMILE 15009704.28
T.I.M.S. NO. H488
TOD NO.

DRAWING NO. TS-2017D OF SHEET NO. 1 OF 2