

MD 97 (GEORGIA AVENUE) IS ASSUMED TO RUN IN A NORTH/SOUTH DIRECTION

- CONSTRUCTION DETAILS**
- A. USE EXISTING CONTROLLER CABINET AND INSTALL 12 PAIR JELLY-FILLED COMMUNICATION CABLE INSIDE CONTROLLER CABINET WITH LABELS AND TAGS AT CABLE ENDS AND TERMINATE. MONTGOMERY FORCES SHALL MAKE THE FINAL CONNECTION INSIDE THE CONTROLLER CABINET.
  - B. INSTALL HANDHOLE.
  - C. INSTALL (2) 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT-TRENCHED.
  - D. INSTALL (2) 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT-SLOTTED ACROSS RANDOLPH ROAD, STUB-UP CONDUITS AT THE BOTTOM OF THE UTILITY POLE. (SEE SHEET NO. 7 OF 7 FOR PROFILE INFORMATION)
  - E. INSTALL POLE MOUNTED SPLICE CABINET TO THE UTILITY POLE AS SHOWN ON PLAN WITH (1) 4 IN. CONDUIT RISER FROM THE STUB-OUT CONDUIT AT BASE OF UTILITY POLE TO THE BEND AT BASE OF THE SPLICE CABINET, THE SECOND 4 IN. CONDUIT RISER SHALL BE INSTALLED BY DRILLING HOLE OUT THE BACK OF THE CABINET WITH LB CONDULET AND FITTINGS. THE RISER SHALL BE A HEIGHT OF 22 FT. FROM GRADE UP THE UTILITY POLE. (NOTE: ONE 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT BEND).
  - F. USE UTILITY POLE AND INSTALL 50 PAIR JELLY-FILLED COMMUNICATION CABLE AND 1/4 DIAMETER SPAN WIRE WITH MESSENGER RINGS ATTACHED TO SPAN WIRE.
  - G. INSTALL "G" SIZE PEDESTAL MOUNTED SPLICE CABINET. (NOTE: ONE 4 IN. PVC SCHEDULE 80 CONDUIT BEND).
  - H. INSTALL (2) 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT-TRENCHED ACROSS JUDSON ROAD AND GRANDVIEW AVENUE.
  - J. INSTALL (2) 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT-TRENCHED, STUB UP CONDUIT BEND AT THE BASE OF UTILITY POLE, ONE SHALL BE ATTACHED TO POLE MOUNTED CABINET THE SECOND CONDUIT SHALL ATTACH TO A RISER UP THE UTILITY POLE 22 FT. FROM GRADE.
  - K. DISCONNECT, PULLBACK, AND RE-ROUTE EXISTING COMMUNICATION CABLE TO NEW SPLICE CABINET LOCATION.
  - L. REMOVE EXISTING SPLICE CABINET AND DISPOSE OF IT.
  - M. USE EXISTING HANDHOLE.
  - N. USE EXISTING CONDUIT.
  - O. INSTALL (2) 4 IN. PVC SCHEDULE 80 CONDUIT RISER AT A HEIGHT OF 22 FT. TO LAMINATED POLE AND STUB-UP CONDUITS.
  - P. INSTALL (2) 4 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT-TRENCHED, STUB-UP CONDUIT AT THE BASE OF LAMINATED POLE.
  - Q. USE EXISTING STRAIN POLE.
  - R. USE EXISTING SPAN WIRE AND INSTALL JELLY-FILLED COMMUNICATION CABLE.
  - S. USE EXISTING STRAIN POLE AND INSTALL 50 PAIR JELLY-FILLED COMMUNICATION CABLE.
  - T. INSTALL (2) 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT-TRENCHED. (SEE SHEET NO. 7 OF 7 FOR PROFILE INFORMATION)

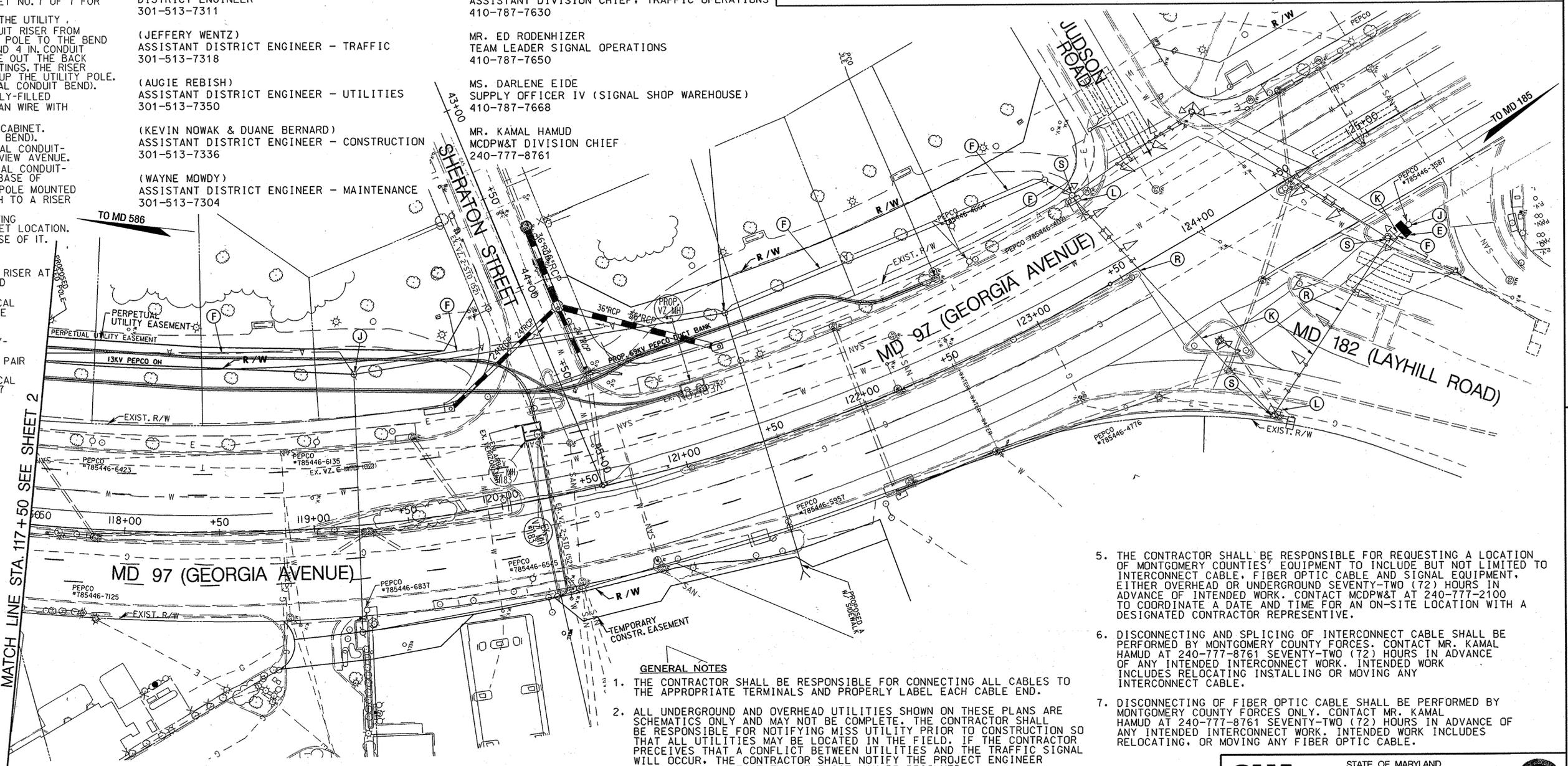
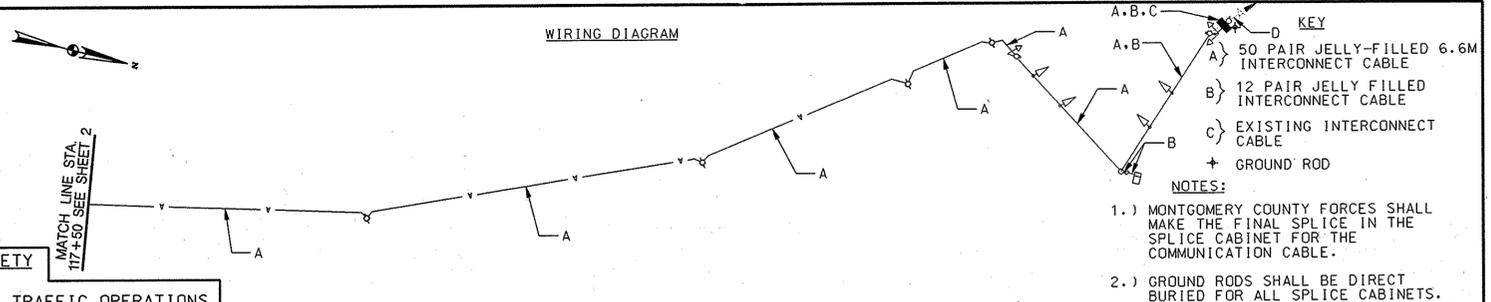
**PROJECT DESCRIPTION**

This project involves the reconstruction of an existing Interconnect system for North and South MD 97 (Georgia Avenue) and East and West Randolph Road in Montgomery County Maryland. A 50 Pair Jelly-Filled communication cable shall be installed aerially on Pepco utility poles and underground in the new conduit system to link the traffic signals for MD 97 (Georgia Avenue) and Randolph Road.

- DISTRICT**  
(DARRELL B. MOBLEY)  
DISTRICT ENGINEER  
301-513-7311
- CONTACTS**
- (JEFFERY WENTZ)  
ASSISTANT DISTRICT ENGINEER - TRAFFIC  
301-513-7318
- (AUGIE REBISH)  
ASSISTANT DISTRICT ENGINEER - UTILITIES  
301-513-7350
- (KEVIN NOWAK & DUANE BERNARD)  
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION  
301-513-7336
- (WAYNE MOWDY)  
ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
301-513-7304

- OFFICE OF TRAFFIC AND SAFETY**  
MR. ROBERT SNYDER  
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS  
410-787-7630
- MR. ED RODENHIZER  
TEAM LEADER SIGNAL OPERATIONS  
410-787-7650
- MS. DARLENE EIDE  
SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE)  
410-787-7668
- MR. KAMAL HAMUD  
MCDPW&T DIVISION CHIEF  
240-777-8761

**WIRING DIAGRAM**



**GENERAL NOTES**

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTING ALL CABLES TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE END.
2. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATICS 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 UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
3. MONTGOMERY COUNTY FORCES SHALL MAKE THE FINAL CONNECTIONS INSIDE SPLICE CABINET TO CONTROLLER.
4. THE INSTALLATION OF THE INTERCONNECT CABLE SHALL CONFORM TO PROVISIONS OF TELCORDIA'S BLUE BOOK MANUAL OF CONSTRUCTION PROCEDURES SR-1421 LATEST ISSUE AND TO THE PROVISIONS OF ANSI NATIONAL ELECTRICAL SAFETY CODE, THE NATIONAL ELECTRICAL CODE, MONTGOMERY COUNTY ELECTRICAL SAFETY CODE AND OSHA. WHERE CODES CONFLICT, THE MOST STRINGENT REQUIREMENTS SHALL APPLY.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REQUESTING A LOCATION OF MONTGOMERY COUNTY'S EQUIPMENT TO INCLUDE BUT NOT LIMITED TO INTERCONNECT CABLE, FIBER OPTIC CABLE AND SIGNAL EQUIPMENT, EITHER OVERHEAD OR UNDERGROUND SEVENTY-TWO (72) HOURS IN ADVANCE OF INTENDED WORK. CONTACT MCDPW&T AT 240-777-2100 TO COORDINATE A DATE AND TIME FOR AN ON-SITE LOCATION WITH A DESIGNATED CONTRACTOR REPRESENTATIVE.
6. DISCONNECTING AND SPLICING OF INTERCONNECT CABLE SHALL BE PERFORMED BY MONTGOMERY COUNTY FORCES. CONTACT MR. KAMAL HAMUD AT 240-777-8761 SEVENTY-TWO (72) HOURS IN ADVANCE OF ANY INTENDED INTERCONNECT WORK. INTENDED WORK INCLUDES RELOCATING OR MOVING ANY INTERCONNECT CABLE.
7. DISCONNECTING OF FIBER OPTIC CABLE SHALL BE PERFORMED BY MONTGOMERY COUNTY FORCES ONLY. CONTACT MR. KAMAL HAMUD AT 240-777-8761 SEVENTY-TWO (72) HOURS IN ADVANCE OF ANY INTENDED INTERCONNECT WORK. INTENDED WORK INCLUDES RELOCATING, OR MOVING ANY FIBER OPTIC CABLE.

**MATERIAL LIST**

A MATERIALS TO BE FURNISHED BY THE ADMINISTRATION		DESCRIPTION	NONE
EA	4	POLE MOUNTED "G" SIZE SPLICE CABINET	
EA	300	DISCONNECT, PULLBACK, RE-ROUTE EXISTING CABLE	
EA	1	FURNISH AND INSTALL PEDESTAL SPLICE CABINET	
EA	4950	50 PAIR COMMUNICATION CABLE JELLY-FILLED	
EA	250	4 INCH PVC SCHEDULE 80 ELECTRICAL CONDUIT RISER	
EA	4	INSTALL LB CONDULET AND FITTINGS TO CONDUIT RISER	
EA	1	CONCRETE FOR SIGNAL FOUNDATION	
EA	2600	4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT-TRENCHED	
EA	200	4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT-SLOTTED	
EA	6	FURNISH AND INSTALL ELECTRICAL HANDHOLE	
EA	845	12 PAIR COMMUNICATION CABLE JELLY-FILLED	
EA	5	GROUND ROD 3/4 INCH DIAMETER X 10 FOOT LENGTH	
EA	3340	STEEL SPAN WIRE - 1/4 INCH DIAMETER	
EA	4	INSTALL POLE MOUNTED CABINET	

B MATERIALS TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR		DESCRIPTION	NONE
EA	4	POLE MOUNTED "G" SIZE SPLICE CABINET	
EA	300	DISCONNECT, PULLBACK, RE-ROUTE EXISTING CABLE	
EA	1	FURNISH AND INSTALL PEDESTAL SPLICE CABINET	
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EA	3340	STEEL SPAN WIRE - 1/4 INCH DIAMETER	
EA	4	INSTALL POLE MOUNTED CABINET	

**GEOMETRIC LEGEND**

--- EXISTING

**UTILITY LEGEND**

- SD STORM DRAIN
- G GAS MAIN
- W WATER MAIN
- SAW SEWER MAIN
- E ELECTRIC CABLES
- A AERIAL CABLES
- T TELEPHONE CABLES
- FO FIBER-OPTIC

**SABRA, WANG & ASSOCIATES, INC.**  
1504 JOH AVENUE  
SUITE 160  
BALTIMORE, MD 21227  
(410) 737-6664  
WWW.SABRA-WANG.COM

**APPROVALS**

\_\_\_\_\_  
TEAM LEADER TRAFFIC ENGINEERING DIVISION

\_\_\_\_\_  
ASSISTANT CHIEF TRAFFIC ENGINEERING DIVISION

\_\_\_\_\_  
CHIEF TRAFFIC ENGINEERING DIVISION

\_\_\_\_\_  
DIRECTOR, OFFICE OF TRAFFIC & SAFETY

**REVISIONS**

NO.	DESCRIPTION

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION

**MD 97 (GEORGIA AVENUE) AT RANDOLPH ROAD**  
GLENMOUNT, MARYLAND

**INTERCONNECT PLAN**

SCALE 1"=30' DATE 7/03/2008 CONTRACT NO. M08545171

DESIGNED BY S. SMITH COUNTY MONTGOMERY  
DRAWN BY S. SMITH LOGMILE NA 15009704.61  
CHECKED BY J. WEAVER T.I.M.S. NO. F 915  
F.A.P. NO. TOD NO.

TS NO. 2392 DRAWING 6 OF 7 SHEET NO. 51 OF 85