



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

- CONSTRUCTION DETAILS**
- A. INSTALL CONCRETE FOUNDATION WITH A TYPE S BASE MOUNTED CABINET, CONTROLLER, AND UNINTERRUPTIBLE POWER SUPPLY. (NOTE: TWO-4 IN. AND TWO-2 IN. PVC SCHEDULE 80, 90-DEGREE CONDUIT BENDS).
  - B. INSTALL 100 AMP METERED SERVICE PEDESTAL. (NOTE: ONE-4 IN. AND TWO-2 IN. PVC SCHEDULE 80, 90-DEGREE CONDUIT BENDS).
  - C. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH TWIN 50 FT. AND 60 FT. MAST ARMS WITH SIGNAL HEADS, SIGNS, 20 FT. LIGHTING ARM, 250 WATT HPS LUMINAIRE, AND VIDEO DETECTION CAMERAS. (NOTE: ONE-4 IN. PVC SCHEDULE 80, 90-DEGREE CONDUIT BEND).
  - D. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH A SINGLE 60 FT. MAST ARM WITH SIGNAL HEADS, SIGNS, 20 FT. LIGHTING ARM, 250 WATT HPS LUMINAIRE, AND VIDEO DETECTION CAMERA. (NOTE: ONE-4 IN. AND ONE-2 IN. PVC SCHEDULE 80, 90-DEGREE CONDUIT BEND).
  - E. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH A SINGLE 38 FT. MAST ARM WITH SIGNAL HEADS, SIGNS, 10 FT. LIGHTING ARM, 250 WATT HPS LUMINAIRE, AND VIDEO DETECTION CAMERA. (NOTE: ONE-4 IN. PVC SCHEDULE 80, 90-DEGREE CONDUIT BEND).
  - F. INSTALL HANDHOLE.
  - G. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT FOR ELECTRICAL SERVICE - SLOTTED. STUB OUT CONDUIT BEND AT BASE OF UTILITY POLE.
  - H. INSTALL NON-INVASIVE PROBES WITH 500 FT. LEAD-IN CABLE. (TO BE PLACED IN THRU LANE ONLY).
  - J. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
  - K. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - SLOTTED.
  - L. REMOVE EXISTING CONCRETE SIDEWALK AT JOINTS. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED. COVER WITH NEW 5 IN. SIDEWALK.
  - M. REMOVE EXISTING CONCRETE SIDEWALK AT JOINTS. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED. COVER WITH NEW 5 IN. SIDEWALK.
  - N. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
  - P. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - SLOTTED.
  - R. REMOVE EXISTING STOP LINE PAVEMENT MARKING AND INSTALL 24 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING AT THE SAME LOCATION.
  - S. INSTALL 24 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR STOP LINE.
  - T. INSTALL 5 IN. DOUBLE YELLOW LEAD FREE THERMOPLASTIC PAVEMENT MARKINGS - SOLID.
  - U. INSTALL 5 IN. WHITE LEAD FREE THERMOPLASTIC PAVEMENT MARKINGS - 3' LINE, 3' GAP.
  - V. REMOVE EXISTING POLE AND FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
  - W. REMOVE EXISTING SPAN WIRE AND ALL ASSOCIATED EQUIPMENT.
  - X. REMOVE EXISTING BASE MOUNTED CONTROLLER, CABINET AND FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
  - Y. USE EXISTING HANDHOLE.
  - Z. USE EXISTING CONDUIT.
  - AA. DISCONNECT AND REMOVE LOOP DETECTOR CABLES FROM CONDUITS, HANDHOLES, SIGNAL STRUCTURES AND CONTROLLER.
  - BB. INSTALL NON-INVASIVE PROBES WITH 1,000 FT. LEAD-IN CABLE. (TO BE PLACED IN THRU LANE ONLY).
  - CC. USE EXISTING HANDHOLE. PULL BACK EXISTING FIREHOUSE PRE-EMPTION CABLES TO THIS HANDHOLE AND REROUTE TO NEW SIGNAL CABINET.
  - DD. REMOVE EXISTING HANDHOLE AND BACKFILL.
  - EE. CAP AND ABANDON EXISTING CONDUIT.

**AERIAL CABLE DETAIL**

PRIMARY	36'+
SECONDARY	31'
TELEPHONE	23'-9"
TELEPHONE COMM.	21'
TELEPHONE COMM.	19'-8"
COMM.	19'-4"
GRADE	

**AERIAL CABLE DETAIL**

PRIMARY	36'+
SECONDARY	31'
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- CONSTRUCTION DETAILS (CONT.)**
- FF. INSTALL GROUND MOUNTED SIGN ON A SINGLE WOOD (4 IN. X 4 IN.) WOOD SUPPORT.
  - GG. INSTALL HANDHOLE WITH LONGER DIMENSION PERPENDICULAR TO THE ROADWAY FOR NON-INVASIVE PROBES.
  - HH. REMOVE EXISTING GROUND MOUNTED SIGN AND SUPPORT.
  - JJ. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
  - KK. VIDEO DETECTION ZONE TO BE ALIGNED BY SHA ENGINEER.
  - LL. REMOVE EXISTING PAVEMENT MARKINGS.
  - NN. REMOVE EXISTING POLE, ELECTRICAL UTILITY SERVICE EQUIPMENT, AND FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
  - PP. ABANDON EXISTING PROBES.
  - RR. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.

NOTE: CONTRACTOR SHALL COORDINATE WITH BGE FOR THE REMOVAL OF THE EXISTING OVERHEAD POWER FEED.

1 REDLINE NO. 1, 09/28/2012

**GEOMETRIC LEGEND**

--- EXISTING

**UTILITY LEGEND**

- SD STORM DRAIN
- G GAS MAIN
- W WATER MAIN
- SAN SEWER MAIN
- UG ELEC ELECTRICAL CABLES
- E AERIAL CABLES
- UG TEL TELEPHONE CABLES
- UG FO FIBER-OPTIC

**SABRA, WANG & ASSOCIATES, INC.**  
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**APPROVALS**

TEAM LEADER TRAFFIC ENGINEERING DIVISION

ASSIST. CHIEF TRAFFIC ENGINEERING DIVISION

CHIEF TRAFFIC ENGINEERING DIVISION

DIRECTOR, OFFICE OF TRAFFIC & SAFETY

**REVISIONS**

1	FULL SIGNAL RECONSTRUCTION	SHA NO. XX6475185	TMS NO. H408	06-2012
2	REPLACE SOUTHBOUND DETECTION DUE TO GEOMETRIC IMPROVEMENTS	SHA NO. BW-0908B2		3-20-2009
3	REPLACE EB SOLLEY ROAD DETECTION			3-18-1998

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

MD 173 (FORT SMALLWOOD ROAD) AT SOLLEY ROAD  
 PASADENA, MARYLAND

**TRAFFIC SIGNAL PLAN**

SCALE 1" = 20' DATE 11-01-1988 CONTRACT NO. \_\_\_\_\_

DESIGNED BY \_\_\_\_\_ COUNTY ANNE ARUNDEL  
 DRAWN BY B. THOMPSON LOGMILE 02017307.60  
 CHECKED BY \_\_\_\_\_ TMS NO. \_\_\_\_\_  
 FAP NO. \_\_\_\_\_ TD NO. \_\_\_\_\_

TS NO. 1669F DRAWING **SG-05** OF 15 SHEET NO. 5 OF 15