



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

RANDOLPH ROAD IS ASSUMED TO RUN IN A EAST/WEST DIRECTION

E. RANDOLPH ROAD

PROPOSED RIGHT OF WAY

UNDERGROUND POWER SERVICE

CHERRY HILL ROAD

PROPOSED RIGHT OF WAY

**CONSTRUCTION DETAILS**

- A. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH SINGLE 50 FT. MAST ARM WITH SIGNAL HEADS, PEDESTRIAN SIGNAL HEAD, PROPOSED VIDEO DETECTION CAMERA, 250 WATT HPS LUMINAIRE WITH PHOTOCELL AND 15' LIGHTING ARM. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND AND FOUR-1 3/4 IN. X 90 IN. ANCHOR BOLTS.). STA. 28+88.5 LT 53'
- B. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH SINGLE 40 FT. MAST ARM, SIGNAL HEADS, PROPOSED VIDEO DETECTION CAMERA, AND 250 WATT HPS LUMINAIRE WITH PHOTOCELL AND TWO - 15' LIGHTING ARM. (NOTE: ONE-3 IN. PVC SCHEDULE 80 CONDUIT BEND AND FOUR-1 3/4 IN. X 90 IN. ANCHOR BOLTS). STA. 30+90 RT 58'
- C. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH SINGLE 70 FT. MAST ARM WITH SIGNAL HEADS, AND PROPOSED VIDEO DETECTION CAMERA. (NOTE: ONE-3 IN. PVC SCHEDULE 80 CONDUIT BEND AND FOUR- 2 IN. X 90 IN. ANCHOR BOLTS). STA. 31+56 RT 10'
- D. INSTALL 27 FT. STEEL POLE ON BRIDGE PARAPET WITH SINGLE 70 FT. MAST ARM, SIGNAL HEADS, 250 WATT HPS LUMINAIRE WITH PHOTOCELL AND 15 FT. LIGHTING ARM, SIGNS, PEDESTRIAN SIGNAL HEADS, AND PROPOSED VIDEO DETECTION CAMERA. (NOTE: ONE-3 IN. PVC SCHEDULE 80 CONDUIT BEND AND FOUR- 2 IN. X 90 IN. ANCHOR BOLTS).
- E. INSTALL A NEMA SIZE 6 BASE MOUNTED CONTROLLER AND CABINET WITH CONTROL AND DISTRIBUTION EQUIPMENT FOR UNDERGROUND SERVICE. (NOTE: SCHEDULE 80 CONDUIT BENDS). STA. 32+00 LT 78'
- F. USE EXISTING CONDUIT IN BRIDGE WALL
- G. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT- TRENCHED.
- H. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT- TRENCHED.
- J. INSTALL HANDHOLE.
- K. INSTALL 24 IN. HEAT APPLIED, WHITE, REFLECTIVE, THERMOPLASTIC PAVEMENT MARKING TAPE FOR STOP LINE.
- L. INSTALL CONCRETE FOUNDATION WITH 14 FT. PEDESTAL POLE WITH PEDESTRIAN SIGNAL HEAD AND VEHICLE SIGNAL HEAD (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND AND FOUR-1 IN. X 40 IN. ANCHOR BOLTS). STA 28+64 RT 48' AND STA. 31+36 LT 53'
- M. INSTALL 10 FT. PEDESTAL POLE WITH PEDESTRIAN SIGNAL HEAD, PUSHBUTTON AND SIGN . (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND IN EXISTING BRIDGE DECK).
- N. INSTALL 12 IN. HEAT APPLIED, WHITE, REFLECTIVE, THERMOPLASTIC PAVEMENT MARKING TAPE FOR CROSSWALK.
- D. INSTALL TWO 4 IN. PVC SCHEDULE 80 CONDUIT-TRENCHED.
- P. USE EXISTING JUNCTION BOX IN BARRIER WALL.

**GENERAL NOTES**

- 1. Pavement markings detailed are proposed and shall be installed by the Contractor in accordance with MD-SHA standards.
- 2. Video Camera placement / aligning shall be coordinated with Bob Gonzales of Montgomery County at (240) 777-8761.
- 3. Contractor shall verify all proposed pole and cabinet locations, prior to installation.
- 4. The contractor shall be responsible for terminating all signal cable, excluding interconnect, to the appropriate terminals and properly label each cable.
- 5. All signal poles and pedestal poles shall be painted Federal Green.
- 6. Contact Montgomery County's Transportation Management Center 72 hours prior to mark existing underground traffic signal equipment. (240)777-2100.
- 7. The contractor shall contract Mike Kinney for Surveillance Camera equipment installation. (County forces to install pole mounted cabinet)
- 8. All bridge structures shall be installed with 1/2 inch thick vibration bearing pads.
- 9. See bridge plan sheets for traffic signal conduit connections at bridge.

**PHASE 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  
C-T - CABLE TV

**MONTGOMERY COUNTY DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION ROCKVILLE, MARYLAND**

RECOMMENDED BY: CHIEF, TRANS. SYSTEM MANAGEMENT SECTION

REVIEWED BY: ENGINEERING SERVICES SPECIALIST DIV. OF TRAFFIC AND PARKING SERVICES

APPROVED BY: CHIEF DIV. OF TRAFFIC AND PARKING SERVICES

**SABRA, WANG & ASSOCIATES, INC.**  
1506 JOH AVENUE SUITE 180 BALTIMORE, MD 21227 WWW.SABRA-WANG.COM

REVISIONS	APPROVALS
	2-2-02 TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
	1/9/02 CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	1/10/02 DIRECTOR, OFFICE OF TRAFFIC & SAFETY

**MARYLAND DOT - STATE HIGHWAY ADMINISTRATION**  
Office of Traffic & Safety  
TRAFFIC ENGINEERING DESIGN DIVISION  
TRAFFIC SIGNAL PLAN

**US 29 AT RANDOLPH ROAD INTERCHANGE IMPROVEMENTS**

DRAWN BY: JAMES ALLEN JR.      F.A.P. NO. MO8365170      TS NO. 4191  
CHECKED BY:      S.H.A. NO.      COUNTY: MONTGOMERY      T.I.M.S. NO. F142  
SCALE: 1" = 20'      LOG MILE:      DATE: APRIL, 2002

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