

**PROJECT DESCRIPTION**

**GENERAL**

THIS PROJECT INVOLVES THE INSTALLATION OF A SPEED DETECTION WARNING SYSTEM ALONG SOUTHBOUND MD 45 SOUTH OF PHOENIX ROAD.

MD 45 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

**INTERSECTION OPERATION**

HAZARD IDENTIFICATION BEACON WILL FLASH WHEN VEHICLES ALONG SB MD 45 (YORK ROAD) ARE DETECTED TRAVELING OVER 30 MPH.

**CONTROLLER REQUIREMENTS**

INSTALL A TYPE 'G' POLE MOUNTED CABINET. THE SHA SIGNAL SHOP WILL INSTALL ONE (1) 2 CIRCUIT FLASHER, ONE (1) VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS AND ALL OTHER NECESSARY EQUIPMENT WITHIN THE CABINET.

**PHONE DROP**

THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE DROP LINE INSTALLATION. THE CONTRACTOR IS TO NOTIFY MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER.

**THE CONTACT PERSONS FOR DISTRICT #4 ARE AS FOLLOWS:**

Ms. Erin Kuhn  
Assistant District Engineer - Traffic  
Phone: 410-229-2381

Mr. Michael Pasquariello  
District Utility Engineer  
Phone: 410-229-2421

Mr. Andre Futrell  
Assistant District Engineer - Maintenance  
Phone: 410-229-2361

**OFFICE OF TRAFFIC AND SAFETY:**

Mr. Richard L. Daff Sr.  
Chief, Traffic Operations Division  
Phone: 410-787-7630

Mr. Robert Snyder  
Assistant Division Chief, Traffic Operations  
410-787-7630

Mr. Edward Rodenhizer  
Chief Signal Operations  
Phone: 410-787-7650

Mr. Eugene Bailey  
Chief Sign Operations  
410-787-7670

The Power Company Is:  
BG&E CO.  
7317 Parkway Dr. South  
Hanover, MD  
Phone: 410-859-9062

**EQUIPMENT LIST 'A'**

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO	QUANTITY	DESCRIPTION
9009	1 EA	12" X 30' STRAIN POLE (1 3/4" X 90° ANCHORS INCLUDED)
9012	1 EA	2 CIRCUIT FLASHER
9037	1 EA	CABINET 'G' TYPE POLE MOUNT
9086	1 EA	VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS
9571	15 SF	SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN 1 EA. - (42 IN. X 51 IN.) *SPEED TOO FAST WHEN FLASHING*

**EQUIPMENT LIST 'C'**

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

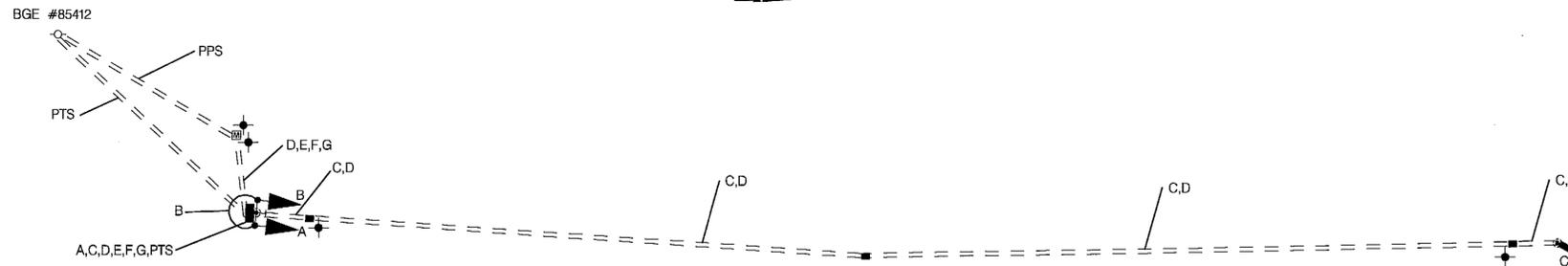
ITEM NO	DESCRIPTION
NONE	ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR

**EQUIPMENT LIST 'B'**

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
2002	3 CY	TEST PIT EXCAVATION
6002	25 SF	5 INCH CONCRETE
8001	2 EA	12 INCH LED SIGNAL HEAD SECTION
8009	1 EA	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8012	1 EA	EMBEDDED METERED SERVICE PEDESTAL
8014	1 EA	INSTALL STEEL STRAIN OR MAST ARM POLE WITH SINGLE OR TWIN MAST ARM
8028	1 EA	VIDEO DETECTION CAMERA AND CABLE ANY LENGTH
8036	45 LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED
8038	460 LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
8040	15 SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8042	350 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8045	80 LF	ELECTRICAL CABLE - 1-CONDUCTOR NO.8 AWG-THHN/THWN
8046	3 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8055	30 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8061	1 EA	INSTALL CONTROLLER AND CABINET - POLE MOUNT

**WIRING DIAGRAM**



- A] ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
- B] CONTROL CABLE - VIDEO DETECTION CAMERA TO CONTROLLER
- C] NO. 6 STRANDED BARE COPPER GROUND WIRE
- D] ELECTRICAL CABLE 1-CONDUCTOR NO. 8 AWG THHN/THWN
- PPS] PROPOSED POWER SERVICE (ELECTRICAL CABLE 1- CONDUCTOR NO. 8-THHN/THWN)
- PTS] PROPOSED TELEPHONE SERVICE
- [ ] PROPOSED GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH

**PHASE CHART**

	1	2
	(Y)	(Y)
FLASHING OPERATION (WHEN ACTIVATED)	FL/Y	FL/Y

TOD NO: XX645-17  
SHA NO: BA938B5D  
MD 45 South of Phoenix Road

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 45 (YORK ROAD) SOUTH OF PHOENIX ROAD  
SOUTHBOUND SPEED DETECTION WARNING SYSTEM  
SPARKS, MARYLAND

**GENERAL INFORMATION**

SCALE NONE ADVERTISED DATE 122011 CONTRACT NO. XX6455185

DESIGNED BY EMP COUNTY BALTIMORE  
DRAWN BY EMP LOGMILE 08004510.31  
CHECKED BY MIS / [Signature] TMS NO. K736  
F.A.P. NO. TOD NO.

TS NO. 4819 DRAWING SG-02 OF 02 SHEET NO. 02 OF 02

**STV**  
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BY: youngsd