

**PROJECT DESCRIPTION**

**GENERAL**

THIS PROJECT INVOLVES THE INSTALLATION OF A PEDESTRIAN HAZARD IDENTIFICATION BEACONS ON NORTHBOUND AND SOUTHBOUND US 1 (SOUTHWESTERN BLVD) APPROACHING THE HALETHORPE MARC STATION IN BALTIMORE COUNTY, MARYLAND. US 1 (SOUTHWESTERN BLVD) IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

**INTERSECTION OPERATION**

THE HAZARD IDENTIFICATION BEACONS WILL OPERATE IN FLASHING MODE.

**CONTROLLER REQUIREMENTS**

INSTALL TWO-CIRCUIT FLASHER UNIT WITH PHOTOCELL, DIMMER SWITCH AND INTERSECTION MONITOR WITH BATTERY BACKUP FOR PHONE DROP AND ASSOCIATED HARNESSES HOUSED IN A NEMA SIZE '5' POLE MOUNTED CABINET.

**PHONE DROP**

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

**MAINTENANCE OF TRAFFIC**

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT. ADDITIONAL TRAFFIC CONTROL STANDARDS MAY BE USED AS DIRECTED BY THE ENGINEER.

- STANDARD NO. MD-104.04-01 (SHOULDER WORK)
- STANDARD NO. MD-104.02-09 (FLAGGING OPERATION)

**PROJECT CONTACTS**

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MS. ERIN KUHN  
ASSISTANT DISTRICT ENGINEER - TRAFFIC  
PHONE: (410) 229-2381

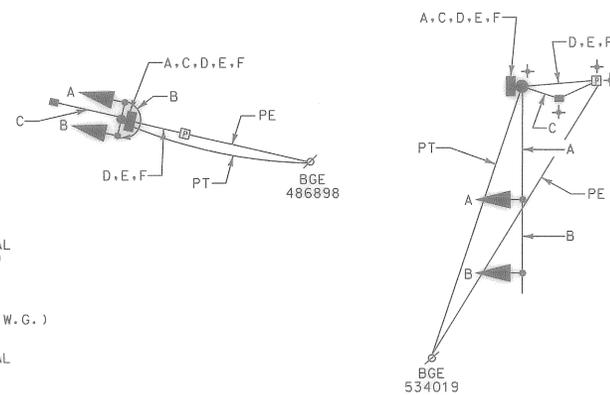
MR. ROBERT SNYDER  
ASSISTANT CHIEF - TRAFFIC OPERATIONS DIVISION  
PHONE: (410) 787-7631

MR. ANDRE FUTRELL  
ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
PHONE: (410) 229-2361

MR. MIKE PASQUARIELLO  
DISTRICT UTILITY ENGINEER  
PHONE: (410) 229-2341

**WIRING DIAGRAMS**

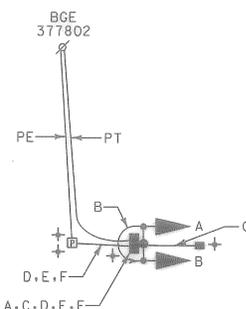
US 1 NB HIB's



**WIRING KEY**

- A } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- B }
- C } STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- D } 1-CONDUCTOR ELECTRICAL CABLE (NO. 8 A.W.G.)
- E }
- F }
- PT - PROPOSED UNDERGROUND TELEPHONE SERVICE
- PE - PROPOSED UNDERGROUND ELECTRICAL SERVICE
- + - 3/4 IN. X 10 FT. GROUND ROD

US 1 SB HIB



**EQUIPMENT LIST "A"**

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
9043	3 EACH	CONTROLLER CABINET, SIZE "5"
9113	3 EACH	FLASHER CONTROL PANEL
9114	3 EACH	2 CIRCUIT FLASHER
9571	37 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF (POLE MOUNT) : - 3 EACH W11-2 SIGN (36 IN. x 36 IN.) B/FY - MAST ARM/POLE MOUNT - 2 EACH W7-3dP MOD. SIGN (30"x24") B/FY - POLE MOUNT

**EQUIPMENT LIST "B"**

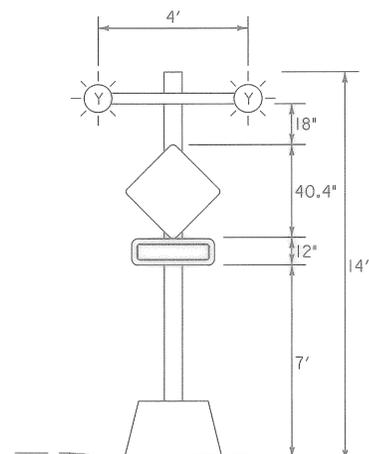
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
2002	4 C.Y.	TEST PIT EXCAVATION
6002	25 S.F.	5 INCH CONCRETE SIDEWALK
8001	6 EACH	12 INCH LED SIGNAL HEAD SECTION
8009	2 EACH	BREAKAWAY PEDESTAL (ANY SIZE)
8012	3 EACH	EMBEDDED METERED SERVICE PEDESTAL
8018	1 EACH	MAST ARM POLE & 38 FT MAST ARM ANY 'T' DIMENSION
8024	1 EACH	REMOVE & DISPOSE MATERIAL & EQUIPMENT (PER ASSIGNMENT)
8038	90 L.F.	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - BORED
8039	80 L.F.	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - SLOTTED
8040	225 L.F.	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - TRENCHED
8042	37 S.F.	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8044	70 L.F.	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8047	280 L.F.	ELECTRICAL CABLE 1-CONDUCTOR NO. 8 AWG - THHN/THWN
8048	3 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8053	1 EACH	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
8057	150 L.F.	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8063	3 EACH	INSTALL CONTROLLER AND CABINET - POLE MOUNT

**EQUIPMENT LIST "C"**

NO EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

**INSTALLATION DETAIL**



TOD NO: XY125-10  
SHA NO: BA087B57  
US 1 NB/SB @ Halethorpe MARC Station

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
US 1 NB (Southwestern Blvd) Hazard Identification Beacon  
Halethorpe, Maryland

**GENERAL INFORMATION SHEET**

SCALE	NONE	ADVERTISED DATE	8/28/2012	CONTRACT NO.	XY1255195
DESIGNED BY	S. Bloss	COUNTY	Baltimore		
DRAWN BY	S. Bloss	LOGMILE	03000101.29_03000101.54		
CHECKED BY	N. Leary	TMS NO.	1403		
F.A.P. NO.		TOD NO.			
TS NO.	4878, 4879	DRAWING	TSP-3	OF	3
		SHEET NO.	3	OF	3



BY: sbloss