

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING FLAG IN THE AIR (FITA) AND HAZARD IDENTIFICATION BEACONS (HIB) AT MD 45 AND HEREFORD HIGH SCHOOL ENTRANCE. MD 45 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

INTERSECTION OPERATION SHALL REMAIN THE SAME.

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.

SPECIAL NOTE

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

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY SHA

ITEM NO.	QUANTITY	DESCRIPTION
9080	1 EACH	TWO CIRCUIT FLASHER UNIT WITH PHOTOCELL, DIMMER SWITCH AND INTERSECTION MONITOR II WITH BATTERY BACK-UP FOR PHONE DROP HOUSED IN A NEMA SIZE "5" POLE MOUNTED CABINET.
9089	156 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF : - 2 EACH W20-7a(2) SIGN (B/FYG) (36 IN. X 36 IN.) - PEDESTAL MOUNT - 2 EACH S4-4 SIGN (B/FYG) (36 IN. X 15 IN.) - PEDESTAL MOUNT - 2 EACH S1-1 SIGN (B/FYG) (48 IN. X 48 IN.) - MAST ARM MOUNT - 2 EACH S4-3 SIGN (B/FYG) (24 IN. X 8 IN.) - GROUND MOUNT - 2 EACH S4-4(1) SIGN (B/FYG) (30 IN. X 15 IN.) - GROUND MOUNT - 3 EACH R2-1 SIGN (24 IN. X 30 IN.) - GROUND MOUNT - 6 EACH S1-1 SIGN (B/FYG) (36 IN. X 36 IN.) - GROUND MOUNT - 2 EACH W16-9P SIGN (B/FYG) (30 IN. X 12 IN.) - GROUND MOUNT - 4 EACH M6-2 SIGN (21 IN. X 15 IN.) - GROUND 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 PER ASSIGNMENT
2001	1 C.Y.	TEST PIT EXCAVATION
5003	300 L.F.	12 INCH WHITE NEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
5007	50 L.F.	REMOVE EXISTING PAVEMENT MARKINGS - ANY WIDTH
8001	1 C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
8003	1 EACH	FURNISH AND INSTALL BREAKAWAY PEDESTAL POLE (ANY SIZE)
8019	1 EACH	INSTALL CONTROLLER AND CABINET - POLE MOUNT
8024	70 L.F.	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8027	50 L.F.	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8033	1 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8034	1 EACH	FURNISH AND INSTALL GROUND ROD - 3/4 IN. DIAMETER X 10 FT. LENGTH
8043	80 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 3 CONDUCTOR (NO. 14 A.W.G.)
8047	60 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE 1-CONDUCTOR NO. 8 A.W.G. - THHN/THWN
8048	30 L.F.	FURNISH AND INSTALL NO. 6 A.W.G. STRANDED BARE COPPER GROUND WIRE
8053	58 S.F.	INSTALL OVERHEAD SIGN
8069	1 EACH	FURNISH AND INSTALL PHOTOCELL
8084	10 EACH	FURNISH AND INSTALL 12 IN. VEHICULAR TRAFFIC SIGNAL HEAD SECTION (BLACK FACE)
8093A	1 EACH	METERED SERVICE PEDESTAL
8044	50 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)
8045	80 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.)
8050	110 L.F.	FURNISH AND INSTALL WOOD SIGN SUPPORTS 4 IN X 4IN.
8052	98 L.F.	INSTALL GROUND MOUNTED SIGN
8085	4 EACH	FURNISH AND INSTALL 8 IN. VEHICULAR TRAFFIC SIGNAL HEAD SECTION (BLACK FACE)
8060	1 EACH	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT PER ASSIGNMENT
8057	1 EACH	REMOVE AND DISPOSE OF EXISTING FOUNDATION 12 IN. BELOW GRADE

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT.

- STANDARD NO. MD-104.00 - 104.00-12
- STANDARD NO. MD-104.31-01 (FLAGGING OPERATION)
- STANDARD NO. MD-104.33-01 (SHOULDER WORK)
- STANDARD NO. MD-104.35-01 (LANE SHIFT)

PROJECT CONTACTS

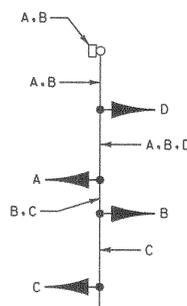
THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

- MR. DAVE MALKOWSKI  
DISTRICT ENGINEER  
PHONE: (410) 321-3461
- MR. RANDALL SCOTT  
ASSISTANT DISTRICT ENGINEER - TRAFFIC  
PHONE: (410) 321-3514
- MR. DAVE RAMSEY  
ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
PHONE: (410) 321-3468
- MR. JOE McMAHON  
DISTRICT UTILITIES ENGINEER  
PHONE: (410) 321-3456
- MR. RICHARD L. DAFF, SR.  
CHIEF, TRAFFIC OPERATIONS DIVISION  
PHONE: (410) 787-7630

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA  
ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR

WIRING DIAGRAM FOR FITA



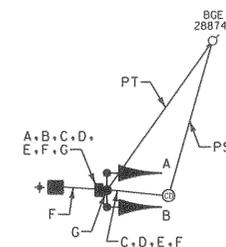
WIRING KEY

- A } 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- B } 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- C } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- D } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- E } 1-CONDUCTOR ELECTRICAL CABLE (NO. 8 A.W.G.)
- F } STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- G } 3-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- H } 2-CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.)

WIRING DIAGRAM FOR HIB

WIRING KEY

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



**WR&A**  
Whitman, Reardon  
and Associates, LLP  
2315 Saint Paul Street  
Baltimore, Maryland 21218  
(410) 235-3450

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION  
Office of Traffic & Safety  
TRAFFIC ENGINEERING DESIGN DIVISION  
GENERAL INFORMATION SHEET  
MD 45 AND HEREFORD HIGH SCHOOL ENT.

DRAWN BY: S. BLOSS	F.A.P. NO.	TS NO.
CHECKED BY: N. LEARY	S.H.A. NO.	TS-4119A
SCALE: NONE	COUNTY: BALTIMORE	T.I.M.S. NO.
DATE: 6/29/01	LOC. MILE:	.777
		SHEET NO. 2 OF 2