



**GUARDRAIL DETAIL LAYOUT**  
NOT TO SCALE

**PROJECT DESCRIPTION**

THIS PROJECT INVOLVES THE INSTALLATION OF AN OVERHEAD HAZARD IDENTIFICATION BEACON FOR ADVANCE WARNING OF PEDESTRIAN CROSSING.

**EQUIPMENT LIST**

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.			
CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
900000	STEEL POLE WITH A 60 FOOT MAST ARM (BUTT SECTION - 35')	EA	1
971040	TWO CIRCUIT FLASHER AND CABINET- POLE MOUNT	EA	1
973023	FLAT SHEET ALUMINUM SIGNS	SF	45
	W11-2 MOD. "PEDESTRIAN AREA" (10'0" X 4'6")	EA	1

  

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.			
ITEM NO.	CATEGORY CODE NO.	DESCRIPTION	UNITS QUANTITY
1001	100000	MAINTENANCE OF TRAFFIC	EA 1
2002	203030	TEST PIT EXCAVATION	CY 0.5
6005	660182	TRAFFIC BARRIER W BEAM	LF 175
6007	661080	SPECIAL TRAFFIC W BEAM END TREATMENT	EA 1
6008	661288	TRAFFIC BARRIER W BEAM TRAIL END ANCHORAGE	EA 1
8006	800000	CUT, CLEAN & CAP TRAFFIC SIGNAL STRUCTURE	EA 1
8011	800000	F & I 12" VEHICLE SIGNAL HEAD SECTION	EA 2
8020	800000	F & I CONTROL AND DISTRIBUTION EQUIPMENT FOR SIGNAL	EA 1
8039	800000	INSTALL STEEL POLE & SINGLE MAST ARM (ANY SIZE)	EA 1
8051	800000	3" PVC SCHEDULE 80 CONDUIT - TRENCHED	LF 150
8057	801004	F & I CONCRETE FOR SIGNAL FOUNDATION	CY 5
8060	802501	F & I NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF 150
8071	810022	F & I 1 CONDUCTOR, NO. 8 AWG, TYPE THWN/THHN, 600 V	LF 185
8072	811001	F & I ELECTRICAL HANDHOLE	EA 1
8075	813015	INSTALL OVERHEAD SIGN	SF 45
8080	837001	F & I GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH	EA 1
8083	861106	F & I ELECTRICAL CABLE - 3 CONDUCTOR (NO. 14 AWG)	LF 130
8091	870160	F & I 2" SCHEDULE 80 CONDUIT - TRENCHED	LF 150
8092	871201	INSTALL CONTROLLER AND CABINET - POLE MOUNT	EA 1

**CONSTRUCTION DETAILS**

- INSTALL CONCRETE FOUNDATION WITH 21 FT. STEEL POLE WITH 60 FT. MAST ARM, CONTROLLER AND CABINET, ELECTRICAL UTILITY SERVICE (60 AMP), SIGNAL HEADS, SIGN AND 4'X4' COURTESY PAD. CUT MAST ARM TO 40 FOOT LENGTH (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND).
- INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- INSTALL HANDHOLE.
- INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED. STUB-UP CONDUIT BEND AT THE BASE OF UTILITY POLE FOR POWER SERVICE. COIL 35 FT. OF SLACK 1/C 3- WIRE #8 AWG CABLE. IN THE SAME TRENCH THE CONTRACTOR SHALL INSTALL A 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT FOR TELECOMMUNICATION CABLES ON TOP OF THE 3 IN. CONDUIT STUB-UP CONDUIT BEND AT THE BASE OF UTILITY POLE. PROVIDE 1/4 IN. PULL STRING IN EACH CONDUIT. THE 3 IN. CONDUIT SHALL BE INSTALL AT A MIN. DEPTH OF 36 INCH.
- INSTALL W-BEAM BARRIER WITH TYPE "C" END TREATMENT, AND TRAIL END ANCHORGE.

**HIB-1**

GEOMETRIC LEGEND	
—	PROPOSED
---	EXISTING

  

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

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REVISIONS	APPROVALS
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	<i>...</i> CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	<i>...</i> DIRECTOR, OFFICE OF TRAFFIC & SAFETY

**MARYLAND DOT - STATE HIGHWAY ADMINISTRATION**  
Office of Traffic & Safety  
TRAFFIC ENGINEERING DESIGN DIVISION  
TRAFFIC SIGNAL PLAN  
US 40 - TOWN OF PERRYVILLE  
HIGHWAY ADVISORY BEACON

DRAWN BY: ST	F.A.P. NO.	TS NO.	SHEET NO.
CHECKED BY: TW	S.H.A. NO.	4255	
SCALE: NONE	COUNTY: CECIL COUNTY	T.I.M.S. NO.	
DATE: JUNE, 2003	LOG MILE: 07004001.75	F715	OF

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