

**PROJECT DESCRIPTION**

THIS PROJECT INVOLVES THE INSTALLATION OF A HAZARD IDENTIFICATION BEACON (H.I.B.) ON SOUTHBOUND US 1 NORTH OF OLD WASHINGTON ROAD IN HOWARD COUNTY.

**CONTACT LIST**

THE CONTACT PERSONS FOR DISTRICT 7 ARE AS FOLLOWS:

- |  |  |
|--|--|
| MR. ROBERT FISHER<br>DISTRICT ENGINEER<br>301-624-8101                         | MR. DAVID COYNE<br>ASSISTANT DISTRICT ENGINEER - MAINTENANCE<br>301-624-8106   |
| MR. JOHN CONCANNON<br>ASSISTANT DISTRICT ENGINEER - TRAFFIC<br>301-624-8140    | MR. RICHARD L. DAFF<br>CHIEF, TRAFFIC OPERATIONS DIVISION<br>410-787-7630  |
| MR. JIM BUCKALEW<br>ACTING ASSISTANT DISTRICT ENGINEER-UTILITY<br>301-729-8436 | THE POWER COMPANY REPRESENTATIVE IS:<br>BALTIMORE GAS AND ELECTRIC COMPANY<br>MR. HUMBERT GIANNACCINI<br>7317 PARKWAY DRIVE SOUTH<br>HANOVER, MARYLAND 21076<br>410-859-9472 |

**EQUIPMENT LIST**

**A. EQUIPMENT TO BE FURNISHED BY THE ADMINISTRATION**

ITEM	QUANTITY	UNITS	DESCRIPTION
9068	1	EA	2 CIRCUIT FLASHER
9076	1	EA	CABINET 'G' TYPE POLE MOUNT
9089	32	SF	FLAT SHEET ALUMINUM SIGN (MAST ARM MOUNT) - YELLOW, ORANGE, OR SILVER

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

ITEM	QUANTITY	UNITS	DESCRIPTION
2001	1	CY	TEST PIT EXCAVATION
2004	1	CY	CLASS 2 EXCAVATION
6001	16	SF	4 INCH CONCRETE SIDEWALK
8001	4.65	CY	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
8019	1	EA	INSTALL CONTROLLER AND CABINET POLE MOUNT
8024	10	LF	FURNISH AND INSTALL 2 INCH SCHEDULE 80 ELECTRICAL PVC CONDUIT - TRENCHED
8027	15	LF	FURNISH AND INSTALL 3 INCH SCHEDULE 80 ELECTRICAL PVC CONDUIT - TRENCHED
8031	300	LF	FURNISH AND INSTALL 4 INCH SCHEDULE 80 ELECTRICAL PVC CONDUIT - SLOTTED
8033	1	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8034	1	EA	FURNISH AND INSTALL GROUND ROD (3/4 INCH X 10 FOOT LENGTH)
8043	70	LF	FURNISH AND INSTALL ELECTRICAL CABLE 3 CONDUCTOR (NO. 14 AWG)
8046	85	LF	FURNISH AND INSTALL ELECTRICAL CABLE 2 CONDUCTOR (NO. 12 AWG)
8048	10	LF	FURNISH AND INSTALL STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)
8053	32	SF	INSTALL OVERHEAD SIGN
8066	1	EA	CONTROL AND DISTRIBUTION EQUIPMENT
8069	1	EA	FURNISH AND INSTALL PHOTOCELL
8077	1	EA	FURNISH AND INSTALL MAST ARM POLE AND 50 FOOT MAST ARM
8084	2	EA	FURNISH AND INSTALL 12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
NEG.	2	EA	FURNISH AND INSTALL 250 WATT MERCURY VAPOR LAMP AND LUMINAIRE
NEG.	2	EA	FURNISH AND INSTALL LIGHTING BRACKET
NEG.	1	EA	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE

**C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.**

ITEM	QUANTITY	UNITS	DESCRIPTION
			NO EQUIPMENT TO BE RETURNED TO THE SHA.

**PROPOSED SIGNALS**

1, 2



12"

**PROPOSED SIGNS**

3



96"

**PROPOSED LIGHTING**



250 WATT MERCURY VAPOR LAMP AND LUMINAIRE

**SIGN DETAILS CHART**

PANEL NO.	QUANTITY	AREA (SQ. FT.)	WIDTH	HEIGHT	COLOR		BORDER		ARROW	SHIELD	REMARKS
					LEG.	BKGD	WIDTH	RADIUS			
3	1	32	8'-0"	4'-0"	BLK	Y	1.125"	6"	N/A	N/A	SHEET ALUMINUM

COLORS: BLK=BLACK; BLU=BLUE; BRO=BROWN; G=GREEN; OR=ORANGE; R=RED; W=WHITE; Y=YELLOW

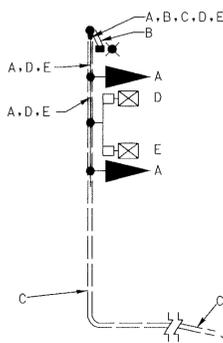
EXISTING RIGHT OF WAY

SOUTHBOUND U.S. ROUTE 1

NORTHBOUND U.S. ROUTE 1



**WIRING DIAGRAM**

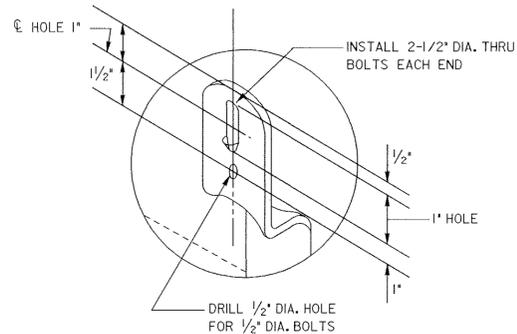


**CONSTRUCTION DETAILS**

- INSTALL 21 FT. STEEL MAST ARM POLE WITH 50 FT. MAST ARM. CUT MAST ARM TO 38' AND CAP. VEHICLE SIGNAL HEADS, SIGN, POLE MOUNTED 'G' TYPE CABINET, 2-MERCURY VAPOR LAMPS AND LUMINAIRES, PHOTOCELL, CONTROL AND DISTRIBUTION EQUIPMENT AND 2 CIRCUIT FLASHER. (NOTE: INSTALL ONE 2 INCH PVC CONDUIT BEND IN BASE FOR PHONE SERVICE, 2-3" CONDUIT BENDS IN BASE AND ONE 4 INCH PVC CONDUIT BEND ON THE OUTSIDE OF THE FOUNDATION FOR POWER CABLE CONNECTION)
- FURNISH AND INSTALL 4 INCH SCHEDULE 80 PVC CONDUIT (SLOTTED)
- FURNISH AND INSTALL 2 INCH SCHEDULE 80 PVC CONDUIT (TRENCHED, PRIOR TO SIDEWALK REPLACEMENT)
- FURNISH AND INSTALL ELECTRICAL HANDHOLE
- FURNISH AND INSTALL 3 INCH SCHEDULE 80 PVC CONDUIT (TRENCHED, PRIOR TO SIDEWALK REPLACEMENT)
- Remove Church Sign

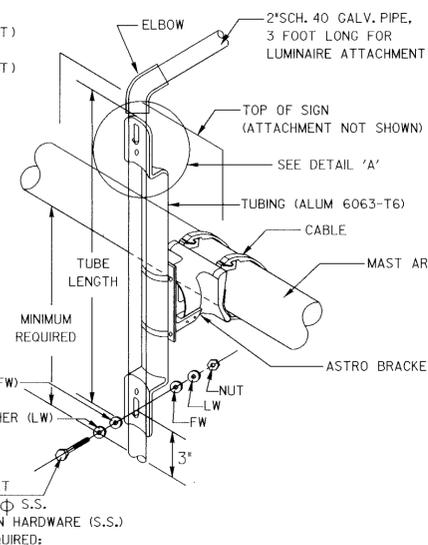
**NOTES:**

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY.
- ALL PAVEMENT MARKINGS, GROUND MOUNTED SIGNS AND GEOMETRICS ARE EXISTING.



**DETAIL "A"**

- A - 3 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- B - BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- C - 120/240 VOLT SINGLE PHASE CABLE SUPPLIED BY THE POWER COMPANY
- D, E - 2 CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.)
- \* - GROUND ROD 3/4" DIAMETER X 10' LENGTH



**LIGHTING BRACKET DETAIL**

TS-1

**KCI TECHNOLOGIES**  
ENGINEERS PLANNERS SCIENTISTS CONSTRUCTION MANAGERS  
10 NORTH PARK DRIVE HUNT VALLEY, MARYLAND 21030  
(410) 316-7800  
www.kci.com

REVISIONS	APPROVALS
	<i>[Signature]</i> 5/4/01 TEAM LEADER TRAFFIC ENGINEERING DESIGN DIVISION
	<i>[Signature]</i> 5/7/01 ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
	<i>[Signature]</i> 5/7/01 CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	<i>[Signature]</i> 5/10/01 DIRECTOR, TRAFFIC & SAFETY

**MARYLAND DOT - STATE HIGHWAY ADMINISTRATION**  
Office of Traffic & Safety  
**TRAFFIC ENGINEERING DESIGN DIVISION**  
US 1 AT OLD WASHINGTON ROAD  
HAZARD IDENTIFICATION BEACON

DRAWN BY: A.M.H./R.B.	F.A.P. NO. AC-STPG-00051687JE	TS NO. 4091	SHEET NO. OF
CHECKED BY: J.F.L.	S.H.A. NO. H0204/058	T.I.M.S. NO. E311	
SCALE: NONE	COUNTY: HOWARD		
DATE: 3/30/2001	LOG MILE: 13000109.16		

PLOTTED: 10:22 AM on Tuesday, April 17, 2001  
 BY: Aaron Hottelstein, Division: Transportation  
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