

PROJECT DESCRIPTION

I. GENERAL

This project involves the installation of a hazard identification beacon (HIB) prior to the traffic control signal at the intersection of US 29 SB and Rivers Edge Road in Howard County, Maryland. US 29 is considered to run in a north/south direction.

II. PROJECT DETAILS

The existing phasing at the intersection is to remain unchanged.

The signal indications for the US 29 SB approach shall be replaced with signal heads containing a red strobe light indication.

All other existing equipment shall be utilized.

EQUIPMENT LIST

A. Equipment to be furnished by MD-SHA and installed by the Contractor.

Item No.	Quantity	Units	Description
9068	1	EA	2 circuit flasher.
9076	1	EA	Cabinet "G" type pole mount.
9089	50.0	SF	Flat sheet aluminum sign (mast arm mount) - yellow, orange, or silver. [1 each 120 in. x 60 in. W 3-3(2)]
9089	16.0	SF	Flat sheet aluminum sign (pole mount) - yellow, orange, or silver. [1 each 48 in. x 48 in. W 3-3]
9089	40.0	SF	Flat sheet aluminum sign (ground mount) - yellow, orange, or silver. [2 each 48 in. x 48 in. W 3-3] [2 each 24 in. x 24 in. W 14-2]
9098	3	EA	Sign hardware - 30 in. form tube.
9106	1	EA	Single mast arm pole - 21 ft. pole with 52 ft. mast arm and anchor bolts.
---	2	EA	Relay package.

**B. Equipment to be furnished and/or installed by the Contractor.
All equipment in this list shall have catalog cuts submitted for approval prior to installation.**

Item No.	Quantity	Units	Description
1001	1	EA	Maintenance of traffic per assignment.
2001	1.0	CY	Test pit excavation.
6003	30	LF	Traffic barrier W-beam.
6006	5	EA	Traffic barrier W-beam post normal 6 ft. length.
6007	5	EA	W-beam barrier mounted markers.
8001	5.65	CY	Concrete for signal foundation.
8019	1	EA	Install controller and cabinet - pole mount.
8024	1370	LF	2 in. [Schedule 80] PVC electrical conduit- trenched.
8027	10	LF	3 in. [Schedule 80] PVC electrical conduit- trenched.
8033	7	EA	Electrical handhole.
8034	1	EA	Ground rod (3/4 in. x 10 ft. length).
8043	125	LF	Electrical cable - 3-conductor (No. 14 AWG).
8048	20	LF	Stranded bare copper ground wire (No. 6 AWG).
8051	72	LF	Wood sign supports 4 in. x 6 in..
8052	40.0	SF	Install ground mounted sign.
8053	66.0	SF	Install overhead sign.
8060	1	EA	Remove/dispose of existing material/equipment per assignment.
8074	1	EA	Install steel pole and single mast arm.
8084	8	EA	12 in. vehicular traffic signal head section.
Neg.	3	EA	12 in. vehicular traffic signal head section with strobe lamp / lens.
Neg.	2100	LF	Electrical cable - 7-conductor (No. 10 AWG).

CONTACT LIST

The contact persons for District #7 are as follows:

Mr. Robert Fisher
District Engineer
301-624-8101

Mr. John Concannon
Assistant District Engineer - Traffic
301-624-8140

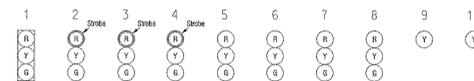
Mr. Jim Buckalew
Acting Assistant District Engineer - Utility
301-729-8436

Mr. Leon Kerns
Assistant District Engineer - Maintenance
301-624-8106

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

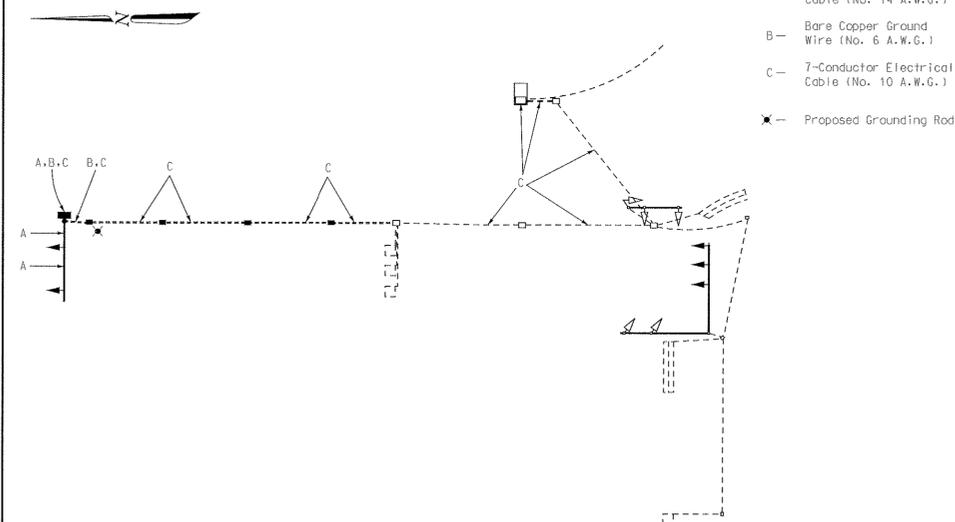
The Power Company Representative is:
Baltimore Gas and Electric Company
Mr. Bernie Thuman
7317 Parkway Drive South
Hanover, Maryland 21076
410-859-9070

Phase Chart



Phase	1	2	3	4	5	6	7	8	9	10	Direction
Phase 2	FL/R	G	G	G	FL/R	FL/R	R	R	DARK	DARK	↘
2 Change	FL/R	Y	Y	Y	FL/R	FL/R	R	R	FL/Y	FL/Y	→
Phase 3	G	R	R	R	G	G	R	R	FL/Y	FL/Y	↙
3 Change	Y	R	R	R	Y	Y	R	R	FL/Y	FL/Y	↘
Phase 4	R	R	R	R	R	R	G	G	FL/Y	FL/Y	↑
4 Change	R	R	R	R	R	R	Y	Y	FL/Y	FL/Y	↑
Flashing Operation	FL/R	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	↘

Wiring Diagram



 The Traffic Group, Inc. 410-931-6600 Fax: 410-931-6601	APPROVALS _____ TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION _____ ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION _____ CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION _____ DIRECTOR, TRAFFIC & SAFETY		MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION (General Information Plan) US 29 (SB) at Rivers Edge Road	
	DRAWN BY: J. Dirndorfer CHECKED BY: _____ SCALE: N/A DATE: July 13, 2000	F.A.P. NO. N/A S.H.A. NO. 7-HO-330-555 COUNTY: Howard LOG MILE: 13002903.63	TS NO. 1862-C T.I.M.S. NO. D-755 SHEET NO. 2 OF 2	

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