

**PROJECT DESCRIPTION**

**I. GENERAL**

This project involves the modification of the existing traffic control signal at the intersection of MD 26 (Liberty Road) and Marriottsville Road in Baltimore County, Maryland. MD 26 is considered to run in an east/west direction.

**II. INTERSECTION OPERATION**

The intersection currently operates in NEMA four (4) phase, full-traffic-actuated mode. The MD 26 through movements operate concurrently with concurrent pedestrian phases across the north and south legs of the intersection. The Marriottsville Road movements operate currently with actuated pedestrian phases across the east and west legs of the intersection.

The existing cabinet/controller and phasing will be utilized.

The existing loop detector amplifiers are to be replaced with 4-channel rack mounted loop detector amplifiers.

**CONTACT LIST**

The contact persons for District #4 are as follows:

Mr. Dave Malkowski  
District Engineer  
410-321-2810

Mr. Randall Scott  
Assistant District Engineer - Traffic  
410-321-2781

Mr. Joseph McMahon  
Assistant District Engineer - Utility  
410-321-2841

Mr. Dave Ramsey  
Assistant District Engineer - Maintenance  
410-321-2761

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

**EQUIPMENT LIST**

A. Approved S.H.A. equipment to be purchased by the Developer and installed by the Contractor. All equipment in this list shall have catalog cuts submitted for approval prior to installation.

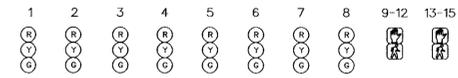
Quantity	Units	Specification Section	Description
1	EA	818	12 in. x 30 ft. steel strain pole [Note: four 1-3/4 in. x 40 in. snchor bolts].
2	EA	814	8 in., one-way, three section (R,Y,G) adjustable traffic signalhead with span wire mounting hardware and tunnel visors.
2	EA	814	12 in., one-way, three section (R,Y,G) adjustable traffic signalhead with span wire mounting hardware and tunnel visors.
1	EA	814	12 in., two-way, two section (symbolic DW, WK) adjustable pedestrian signalhead with pole mounting hardware and cut-away visors.
1	EA	813	30 in. x 36 in. R 3-5(R) sign with span wire mounting hardware.
1	EA	813	9 in. x 12 in. R 10-3c sign with pole mounting hardware.
1	EA	817	Pedestrian pushbutton assembly.
2	EA	---	4-channel rack mounted loop detector amplifier.
★ 1	EA	---	Rack mounted loop detector amplifier retrofit.
★ 1	EA	---	Power supply for rack mounted loop detector amplifiers.

★ Note: To be installed by MD-SHA Signal Shop.

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

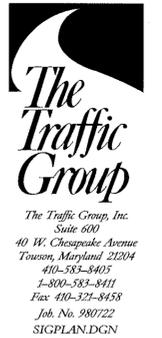
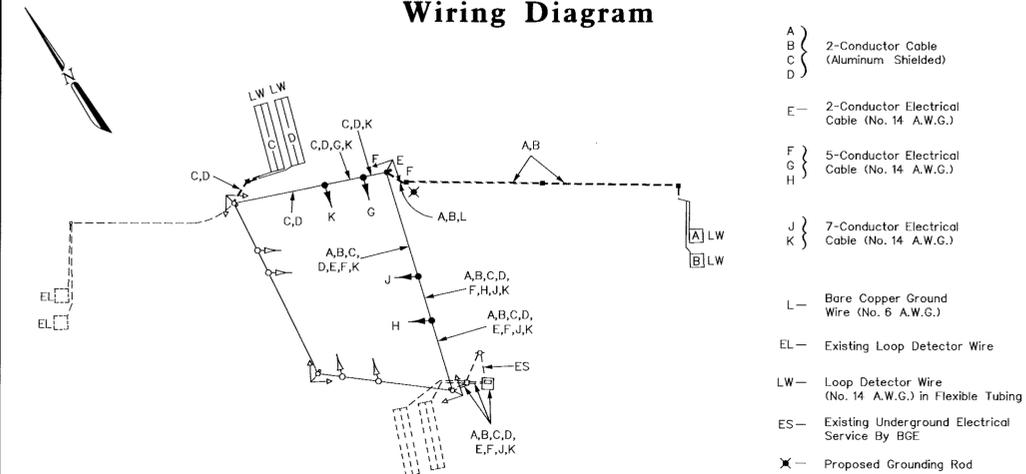
Quantity	Units	Specification Section	Description
Lump Sum	LS	108	Mobilization.
Lump Sum	LS	104	Maintenance of traffic.
2	CY	205	Test pit excavation.
1	EA	---	Temporary backguy.
4	EA	811	Handhole.
330	LF	815	Sawcut for signal loop detector.
1190	LF	810	Loop detector wire (No. 14 A.W.G.) encased in flexible tubing.
1540	LF	810	2-conductor (aluminum shielded) electrical cable (No. 14 A.W.G.).
210	LF	810	2-conductor electrical cable (No. 14 A.W.G.).
270	LF	810	5-conductor electrical cable (No. 14 A.W.G.).
310	LF	810	7-conductor electrical cable (No. 14 A.W.G.).
25	LF	810	Bare copper stranded ground wire (No. 6 A.W.G.).
210	LF	819	3/8 in. steel span wire.
25	LF	805	1 in. liquid tight flexible non-metallic conduit for loop detector sleeve.
290	LF	805	2 in. polyvinyl chloride (Schedule 80) electrical conduit - trenched.
2.65	CY	801	Concrete foundation for traffic signal equipment.
1	EA	804	Ground rod - 3/4 in. diameter x 10 ft. length.
140	EA	556	12 in. wide HAPPTPM - white for cross walk.
45	EA	556	24 in. wide HAPPTPM - white for stop line.
Lump Sum	LS	---	Remove existing traffic signal equipment.
1	EA	---	Relocate existing sign - span wire mount.
1	EA	---	Install 2 in. conduit bend in existing base.
1	EA	---	As-built for S.H.A (on CADD).

**Phase Chart**



Phase	1	2	3	4	5	6	7	8	9-12	13-15
Phase 2 & 6	G	G	G	R	R	R	R	R	WK	DW
Ped Clearance	G	G	G	R	R	R	R	R	FL/DW	DW
2 & 6 Change	Y	Y	Y	Y	R	R	R	R	DW	DW
Phase 4 & 8	R	R	R	R	G	G	G	G	DW	DW
4 & 8 Change	R	R	R	R	Y	Y	Y	Y	DW	DW
Phase Alt 4 & Alt 8	R	R	R	R	G	G	G	G	DW	WK
Ped Clearance	R	R	R	R	G	G	G	G	DW	FL/DW
Alt 4 & Alt 8 Change	R	R	R	R	Y	Y	Y	Y	DW	DW
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK

**Wiring Diagram**



**MDOT - STATE HIGHWAY ADMINISTRATION**  
Office of Traffic & Safety  
TRAFFIC ENGINEERING DESIGN DIVISION  
(General Information)  
**MD 26 (Liberty Rd.) at Marriottsville Road**

DATE: November 24, 1998 LOG MILE # 03002603.51

DRAWN BY: F. Hoeckel	F.A.P. NO. N/A	PLAN SHEET NO. 2673B-G1	SHEET NO. 2 of 2
CHK. BY: N/A	S.H.A. NO. BW996M82	COUNTY: BALTIMORE	

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