

PROJECT DESCRIPTION

I. GENERAL

This project involves the installation of a new traffic control signal and street lighting at the intersection of MD 700 (Martin Blvd.) and Windlass Road in Baltimore County, Maryland. MD 700 is considered to run in an east/west direction.

II. INTERSECTION OPERATION

The intersection is to operate in a NEMA four (4) phase, full-traffic-actuated mode. There will be an exclusive/permissive left turn phase for the eastbound movement of MD 700. The MD 700 through movements will operate concurrently. The Windlass Road through movements will operate alone.

An eight phase, full-traffic-actuated, solid state digital controller with battery back-up, and video detection equipment housed in a base mounted cabinet are to be installed at this location.

III. SPECIAL NOTE:

The Contractor shall notify Mr. Robert Snyder of SHA at 410-787-7635 to arrange for the phone drop installation.

The Contractor is to provide Mr. Snyder with the nearest street number, zip code, and telephone number.

EQUIPMENT LIST

A. S.H.A. furnished equipment material.

None.

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.

Quantity	Units	Specification Section	Description	Quantity	Units	Specification Section	Description
1	EA	818	27 ft. steel mast arm pole with a 70 ft. mast arm.	Lump Sum	LS	108	Mobilization.
1	EA	818	27 ft. steel twin mast arm pole with 50 ft. and 70 ft. mast arms.	Lump Sum	LS	104	Maintenance of traffic.
1	EA	816	Standard S.H.A. traffic signal controller, base mounted cabinet, and video detection interface equipment (Note: Controller and cabinet shall be purchased from Econolite and delivered to the S.H.A. signal shop for wiring and testing. Contact Mr. Ed Rodenhizer (410) 787-7650).	3	CY	205	Test pit excavation.
				10	EA	811	Handhole.
				300	LF	810	2-conductor electrical tray cable (No. 12 A.W.G.).
2	EA	814	Video camera detection (To include two necessary cables for installation). (2) two 350 ft. cables.	90	LF	810	5-conductor electrical cable (No. 14 A.W.G.).
				975	LF	810	7-conductor electrical cable (No. 14 A.W.G.).
5	EA	814	12 in., one-way, three section (R,Y,G) adjustable black faced traffic signalhead with mast arm mounting hardware and tunnelvisors.	200	LF	804	Bare copper stranded ground wire (No. 6 A.W.G.).
				425	LF	805	3 in. polyvinylchloride (Schedule 80) electrical conduit - trenched.
1	EA	814	12 in., one-way, five section (R,Y,Y,G,G) adjustable black faced traffic signalhead with mast arm mounting hardware and tunnelvisors.	120	LF	805	3 in. polyvinylchloride (Schedule 80) electrical conduit - bored.
				330	LF	805	4 in. polyvinylchloride (Schedule 80) electrical conduit - bored.
1	EA	814	12 in./8 in., one-way, five section (12 in. YA, GA/ 8 in. R,Y,G) adjustable black faced traffic signalhead with mast arm mounting hardware and tunnelvisors.	15	LF	805	4 in. polyvinylchloride (Schedule 80) electrical conduit - trenched.
1	EA	813	36 in. x 42 in. R 10-12 sign with mast arm mounting hardware.	9.5	CY	801	Concrete foundation for traffic signal equipment.
1	EA	813	24 in. x 96 in. M95-1 sign with mast arm mounting hardware.	3	EA	804	Ground rod - 3/4 in. diameter x 10 ft. length.
1	EA	813	24 in. x 30 in. R 4-7 sign for ground mounting.	1	EA	807	Electrical utility service equipment (120/240 V, one phase, three wire system) for a type B-2 underground electrical service.
1	EA	813	16 in x var. D-30 (Dual Faced) sign with mast arm mounting hardware.	140	LF	549	24 in. wide HAPPTM - white for stop line.
1	EA	813	16 in x Var. D-30 sign with mast arm mounting hardware.	75	LF	812	4 in. x 4 in. wood sign support.
4	EA	813	36 in. x 36 in. W 3-3 'NEW' sign for ground mounting.	1	EA	---	Remove existing ground mounted sign.
4	EA	---	Non Invasive Micro-loop probe (set of 3) with 750 ft. lead-in cable.	Lump Sum	LS	---	As-built for S.H.A. (on CADD).
2	EA	806	20 ft. luminaire arm.				
2	EA	806	250 W H.P.S. lamp and luminaire.				

CONTACT LIST

The contact persons for District #4 are as follows:

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

Ms. Suenette Pope
Assistant District Engineer - Utility
410-321-3460

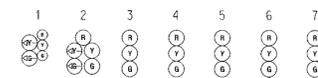
Mr. Steve Marczewski
Assistant District Engineer - Maintenance
410-321-2761

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

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

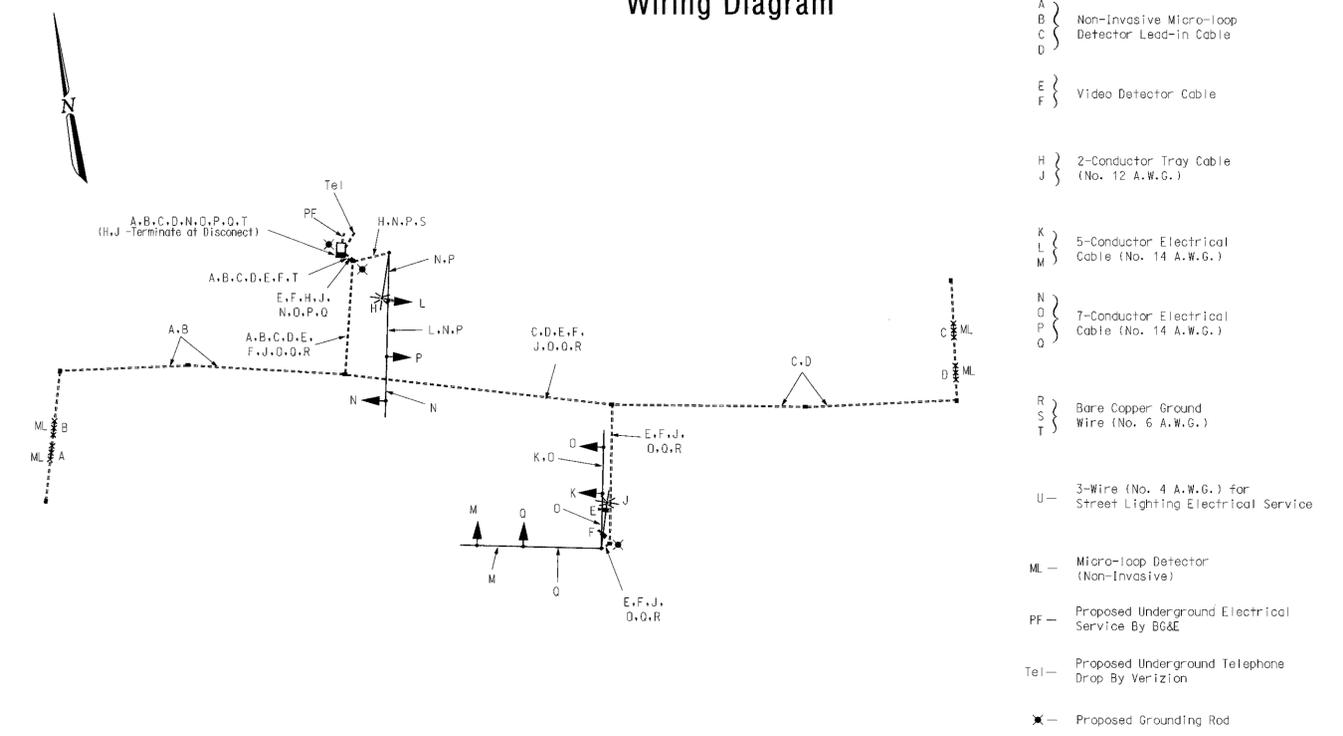
The Telephone Representative is:
Verizon Telephone Company
Mr. Tony Maorana
99 Showan Road, Room 212
Cockeysville, MD 21030
410-393-6444

Phase Chart



	1	2	3	4	5	6	7	
Phase 1 & 6	G	G	G	R	R	R	R	↔
1 Change	G	G	G	R	R	R	R	↔
Phase 2 & 6	G	G	G	G	G	R	R	↔
2 & 6 Change	Y	Y	Y	Y	Y	R	R	↔
Phase 4	R	R	R	R	R	G	G	↕
4 Change	R	R	R	R	R	Y	Y	↕
Fleashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	↕

Wiring Diagram



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
(General Information Plan)
MD 700 (Martin Blvd.) at Windlass Road

DRAWN BY: Frank Hoeckel	F.A.P. NO. N/A	TS NO. 4317	SHEET NO. 2 OF 2
CHECKED BY:	S.H.A. NO. BW996M82	T.I.M.S. NO. G371	
SCALE: N/A	COUNTY: Baltimore		
DATE: June 4, 2004	LOG MILE: 03070000.85		

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