PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of the existing traffic control signal at the intersection of MD 2/4 and MD 524/Cox Road in Calvert County, Maryland. MD 2/4 is considered to run in a north/south direction.

II. INTERSECTION OPERATION

The intersection operates in NEMA seven (7) phase, full-traffic-actuated mode. There is an exclusive/permissive left turn phase for the both north and southbound movement of MD 2/4. The MD 2/4 through movements operate concurrently. There is an exclusive/permissive left turn phase for the eastbound movement of MD 524. The MD 524/Cox Road movements operate concurrently.

An advance HIB will be installed for the Southbound approach of MD 2/4.

The existing base mounted cabinet and phasing will be utilized.

EQUIPMENT LIST

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

Item No.	Quantity	Units	Description
9089	29.33	SF	Flat sheet alumimum sign - yellow.
9098	3	EA	Sign hardware - 30 in. form tube.

B. Equipment to be furnished and installed by the Contractor.

Item No.	Quantity	Units	Description
1001	Lump Sum	LS	Maintenance of traffic per assignment.
2001	1	CY	Test pit excavation.
6005	1	EA	Special traffic barrier W-beam end treatment.
8001	6.98	CY	Concrete foundation for traffic signal equipment.
8024	540	LF	2 in. [Schedule 80] PVC electrical conduit - trenched.
8033	4	EA	Electrical handhole.
8034	1	EA	Ground rod 3/4 in. x 10 ft. length.
8044	80	LF	5-conductor electrical cable (No. 14 A.W.G.).
8053	29.33	SF	Install overhead sign.
8078	1	EA	Mast arm pole and 60 ft. mast arm.
8084	5	EA	12 in vehiclar traffic signal head section.
Neg.	1210	LF	5-conductor electrical cable (No. 12 A.W.G..)
Neg.	2	EA	Remove existing sign.

CONTACT LIST

The contact persons for District #5 are as follows:

Mr. Paul Armstrong
District Engineer
410-841-5450

Mr. Larry Elliott
Assistant District Engineer - Traffic
410-321-2781

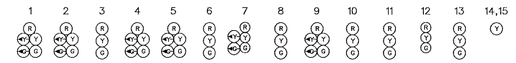
Mr. John Mays
Assistant District Engineer - Utility
410-841-54500

Mr.Charles George
Assistant District Engineer - Maintenance
410-821-5450

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

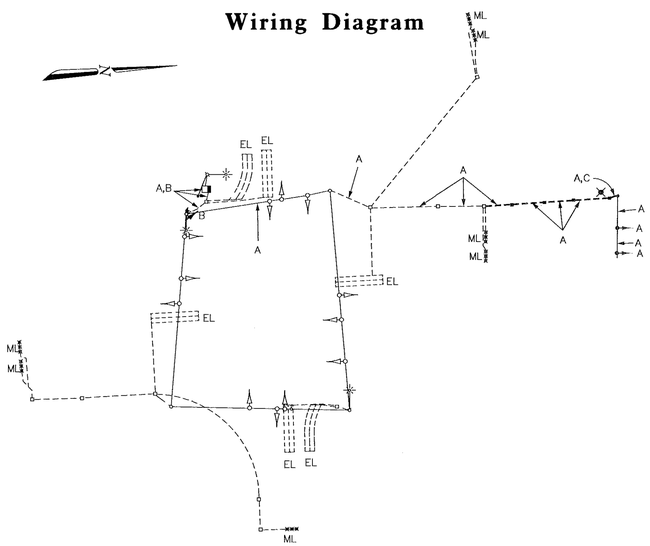
The Power Company Representative is:
SMECO
Mr. Robert Trout
P.O. Box 37
Prince Frederick, Maryland 20678-9501
410-535-440

Phase Chart



	1	2	3	4	5	6	7	8	9	10	11	12	13	14,15
Phase 1 & 5	R, G	R, G	R	R, G	R, G	R	R	R	R	R	R	R	R	FL/Y
1 & 5 Change to Phase 1 & 6 or Phase 2 & 5 or Phase 2 & 6														
Phase 1 & 6	G, G	G, G	G	R	R	R	R	R	R	R	R	R	R	FL/Y
1 Change	G, Y	G, Y	G	R	R	R	R	R	R	R	R	R	R	FL/Y
Phase 2 & 5	R	R	R	G, G	G, G	G	R	R	R	R	R	R	R	FL/Y
2 & 5 Change	R	R	R	G, Y	G, Y	G	R	R	R	R	R	R	R	FL/Y
Phase 2 & 6	G	G	G	G	G	G	R	R	R	R	R	R	R	FL/Y
2 & 6 Change	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	R	FL/Y
Phase 4 & 7	R	R	R	R	R	R	G, G	G	G, G	G	R	R	R	FL/Y
7 Change	R	R	R	R	R	R	G, Y	G	G, Y	G	R	R	R	FL/Y
Phase 4 & 8	R	R	R	R	R	R	G	G	G	G	G	G	G	FL/Y
4 & 8 Change	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	Y	FL/Y
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/Y

Wiring Diagram



A — 5-Conductor Electrical Cable (No. 12 A.W.G.)

B — 5-Conductor Electrical Cable (No. 14 A.W.G.)

C — Bare Copper Ground Wire (No. 6 A.W.G.)

EL — Existing Loop Detector Wire

ML — Micro-Loop Probe

✕ — Proposed Grounding Rod

The Traffic Group

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SIGPLAN.DGN

MDOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
(General Information)

MD 2/4 @ MD 524/ Cox Road

DATE: July 1, 1999 — LOG MILE • 04000226.31

DRAWN BY: F. Hoeckel	F.A.P. NO. N/A	PLAN SHEET NO.: 3529A-GI	SHEET NO. 2 of 2
CHK. BY:	S.H.A. NO. XX1005585		
SCALE: N/A	COUNTY: Calvert		

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