PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing Traffic Control Signal with street lighting at the intersection of MD 2 / 4 and Patuxent Point Pkwy in Calvert County. MD 2 / 4 is assumed to run a north-south direction.

II. INTERSECTION OPERATION

1. The intersection shall continue to operate in a NEMA six-phase, fully-actuated mode, with the MD 2 / 4 approaches running concurrently. The Exclusive/Permissive northbound MD 2 / 4 left turn phase shall continue to be provided. A new Exclusive MD 2 / 4 southbound left phase shall be provided. The Patuxent Point Pkwy approaches shall continue to operate as a split phase.

2. The existing full-traffic-actuated, eight-phase controller with all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be utilized at this intersection.

III. SPECIAL NOTES

1. The Contractor shall be responsible for terminating all signal cables, to the appropriate terminals and shall properly label each cable.

2. All controller cabinet wiring will be performed by the S.H.A. Signal Shop Contact Mr. Ed Rodenhizer at (410) 787-7650 seventy-two hours in advance of intended work.

3. All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility 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 will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY S.H.A.

ITEM NO.	DESCRIPTION	QUANTITY
9000	Maintenance of Traffic	1 EA
9000	Remove & Dispose of Equipment (Per Assignment)	1 EA
9000	F&I Electrical Cable 5-Conductor NO. 14 AWG	390 EA
9006	12", one-way, one-section traffic signal head (black faced)	12 EA
9000	R1G-10L 24"X30" "LEFT TURN SIGNAL" SIGN MAST ARM MOUNTED	1 EA

The contact persons for District #5 are as follows:

Ms. Kim Tran
Assistant District Engineer - Traffic
Phone: (410) 841-1003

Mr. Charles George
Assistant District Engineer - Maintenance
Phone: (410) 841-1002

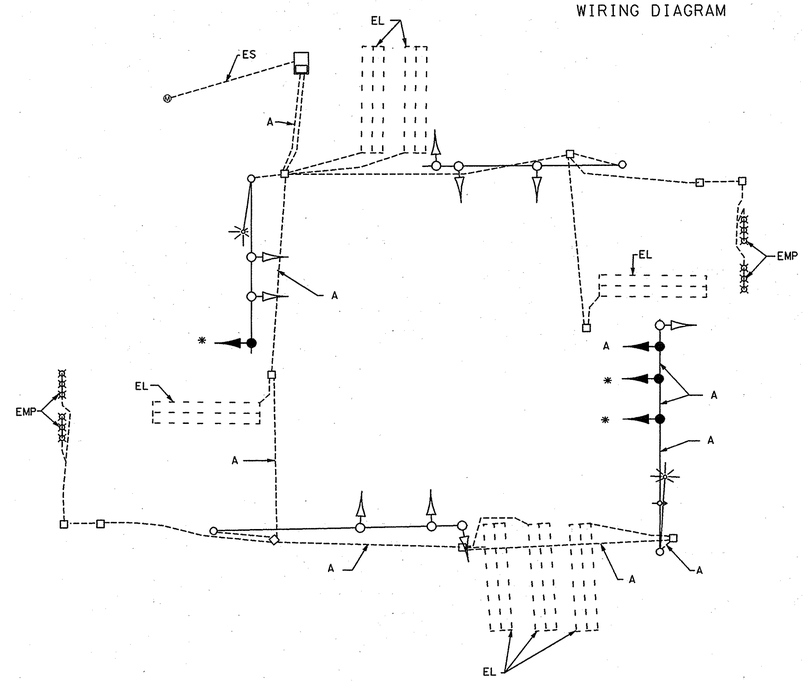
Mr. John Mays
Assistant District Engineer - Utility
Phone: (410) 841-1005

Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
Phone: (410) 787-7630

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13
PHASE 1 & 5	◄G-	◄G-	R	R	◄G-/R	◄G-/R	R	R	R	R	R	R	R
CHANGES TO PHASES 1 & 6, 2 & 5 OR 2 & 6													
PHASE 1 & 6	◄G-	◄G-	G	G	R	R	R	R	R	R	R	R	R
1 & 6 CHANGE	◄Y-	◄Y-	G	G	R	R	R	R	R	R	R	R	R
PHASE 2 & 5	◄R-	◄R-	R	R	◄G-/G	◄G-/G	G	R	R	R	R	R	R
2 & 5 CHANGE	◄R-	◄R-	R	R	◄Y-/G	◄Y-/G	G	R	R	R	R	R	R
PHASE 2 & 6	◄R-	◄R-	G	G	G	G	G	R	R	R	R	R	R
2 & 6 CHANGE	◄R-	◄R-	Y	Y	Y	Y	Y	R	R	R	R	R	R
PHASE 3	◄R-	◄R-	R	R	R	R	R	R	R	R	G ◄G-	G ◄G-	G
3 CHANGE	◄R-	◄R-	R	R	R	R	R	R	R	R	Y	Y	Y
PHASE 4	◄R-	◄R-	R	R	R	R	R	G ◄G-	G ◄G-	G	R	R	R
4 CHANGE	◄R-	◄R-	R	R	R	R	R	Y	Y	Y	R	R	R
FLASHING OPERATION	FL/◄R-	FL/◄R-	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R

WIRING DIAGRAM



WIRING KEY

A - 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G)
* - USE EXISTING WIRING
EMP - MICROLOOP LEAD-IN CABLE
EL - LOOP WIRE (NO. 14 A.W.G.) EXISTING
ES - EXISTING UNDERGROUND SERVICE TO BE MAINTAINED

STREET TRAFFIC STUDIES, LTD.
400 Crain Hwy. NW.
Glen Burnie, MD 21061
Ph (410) 590-5500
Fax (410) 590-0637
4686GI.dgn

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

MD 2 / 4 AND PATUXENT POINT PKWY

DRAWN BY: R.C.	F.A.P. NO.		TS NO. 3750B	SHEET NO. 2 OF 2
CHECKED BY: J.A.	S.H.A. NO.	SHOP INSTALL		
SCALE: NONE	COUNTY:	CALVERT	T.I.M.S. NO. G568	
DATE: 7/19/04	LOG MILE:	04000202.43		

...\4000's\4686\4686gi.dgn Jul. 19, 2004 10:03:04