

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of the existing traffic control signal at the intersection of US 40 and Coudon Blvd. in Cecil County, Maryland. US 40 is considered to run in an east/west direction.

II. INTERSECTION OPERATION

The intersection is to be modified operate in a NEMA six (6) phase, full-traffic-actuated mode. There will be an exclusive lead/lag left turn phase for the east and westbound movements of US 40. The US 40 through movements will operate concurrently. The Coudon Blvd. through movements will operate concurrently. Driveway for service Entrance will operate separately.

The existing cabinet/controller will be utilized at this location.

CONTACT LIST

The contact persons for District #2 are as follows:

Mr. Robert Kiel
Assistant District Engineer - Traffic
410-810-5240

Mr. Barry Clothier
Assistant District Engineer - Utility
410-778-3061

Mr. Terry O. Wright
Assistant District Engineer - Maintenance
410-778-3061

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

EQUIPMENT LIST

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

None.

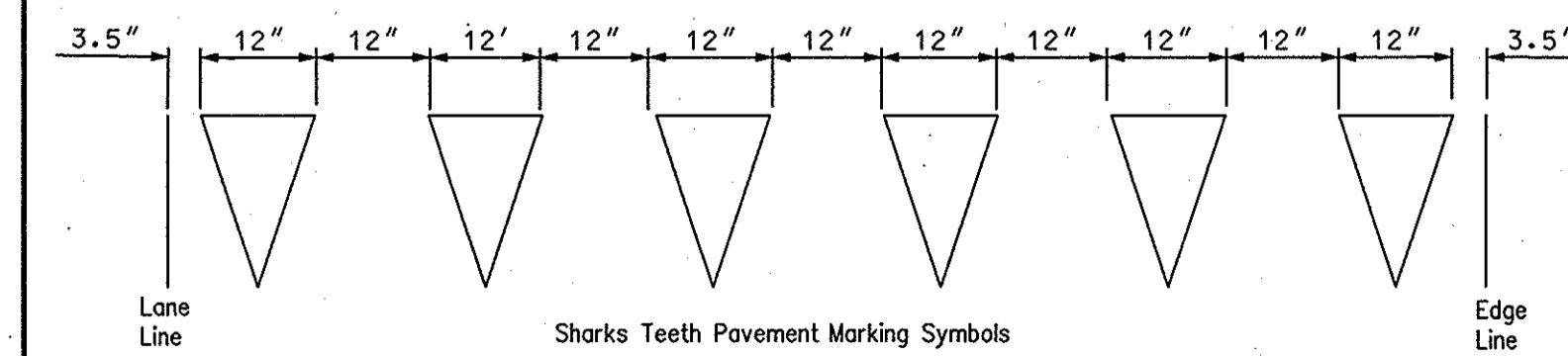
B1. Approved S.H.A. equipment to be purchased by the Developer and installed by the Contractor. All equipment in this list shall have catalog cuts submitted for approval prior to installation.

Quantity	Units	Specification Section	Description
1	EA	818	50 ft. mast arm.
2	EA	814	12 in., one-way, three section (RA,YA,GA) (LED) adjustable black faced traffic signalhead with mast arm mounting hardware and tunnel visors.
2	EA	814	12 in., one-way three section (RA,YA,GA) (LED) adjustable black faced traffic signalhead with pole mounting hardware and tunnel visors
4	EA	814	12 in., one-way, three section (R,Y,G) (LED) (Optically programmed) adjustable traffic signalhead with mast arm mounting hardware and tunnel visors.
4	EA	814	12 in., one-way, three section (R,Y,G) (LED) adjustable black faced traffic signalhead with mast arm mounting hardware and tunnel visors.
4	EA	---	Video camera detection equipment and cables (one - 325 ft, three - 225 ft.)
1	EA	813	72 in. x 24 in. M 95-1 sign with mast arm mounting hardware.
1	EA	813	30 in. x 30 in. R 5-1 sign for ground mounting.
1	EA	813	36 in. x 12 in. R 6-1 sign for ground mounting.
1	EA	813	36 in. x 12 in. R 6-R sign for ground mounting.
1	EA	813	36 in. x 36 in. x 36. R 1-2 sign for ground mounting.
1	EA	813	24 in. x 24 in. R 10-11(b) sign with mast arm mounting hardware.

B2. 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
Lump Sum	LS	108	Mobilization.
Lump Sum	LS	104	Maintenance of traffic.
1	CY	205	Test pit.
1020	LF	810	5-conductor electrical cable (No. 14 A.W.G.).
170	LF	810	7-conductor electrical cable (No. 14 A.W.G.).
185	EA	549	24 in. wide white Thermoplastic pavement marking - white for stop line.
775	LF	---	5 in. wide yellow Thermoplastic pavements marking - center line
225	EA	---	10 in. wide white Thermoplastic pavement marking - lane line.
1	LF	---	Wrong way pavement marking symbol
360	LF	---	Removal of existing pavement markings by grinding.
30	EA	812	4 in. x 4 in. wood sign supports.
1	LF	---	Relocate existing traffic signal.
2	EA	---	Remove/Replace existing traffic signalheads.
Lump Sum	LS	---	Removal of existing traffic signal equipment.
Lump Sum	LS	---	Rake existing mast arm pole.
6	EA	---	Sharks Teeth pavement marking Symbol.
Lump Sum	LS	---	As-built for S.H.A. (on CADD).

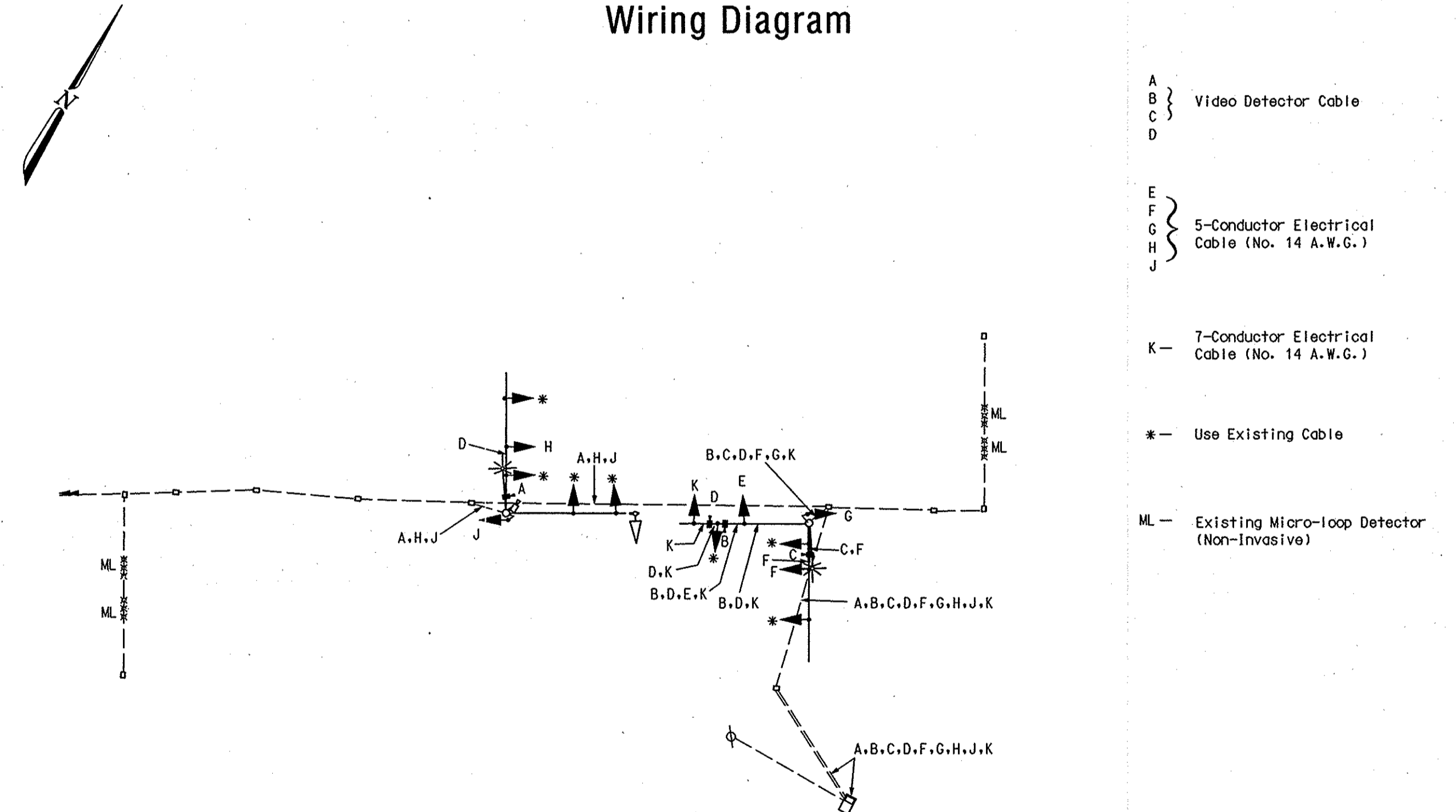
Sharks Teeth Detail



Phase Chart

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

Wiring Diagram



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
(General Information Plan)
US 40 at Coudon Road (Formerly Ikea Connector Road)

DRAWN BY: Frank Hoeckel	F.A.P. NO. N/A	TS NO. 4173-GI	SHEET NO. 2 OF 2
CHECKED BY: John Dirndorfer	S.H.A. NO. BW996M82	T.I.M.S. NO. H-046	
SCALE: N/A	COUNTY: Cecil	LOG MILE: 07004001.40	
DATE: November 18, 2005			

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