PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of the existing traffic control signal at the intersection of MD 140 (Baltimore Blvd.) and Englar Rd. in Carroll County, Maryland. MD 140 is considered to run in an east/west direction.

Southbound Englar Road is being modified to accommodate a double left turn movement. Signalized pedestrian movements are being added to the north and east legs of the intersection.

II. INTERSECTION OPERATION

The intersection shall continue to operate in a NEMA six (6) phase, full-traffic-actuated mode. There is an exclusive left turn phase for both the east and westbound movements of MD 140. The MD 140 through movements operate concurrently with a new actuated pedestrian movement across the north leg of the intersection. The Englar Rd. through movements operate in a side street split phase mode with a new actuated pedestrian movement across the east leg of the intersection.

The existing cabinet and controller shall be utilized. One four-channel loop detector amplifier and two NEMA load switches to be installed by MD-SHA.

CONTACT LIST

The contact persons for District #7 are as follows:

Mr. John Concannon
Assistant District Engineer - Traffic
301-624-8140

Mr. John Nesbitt
Assistant District Engineer - Utility
301-624-8115

Mr. Dave Coyne
Assistant District Engineer - Maintenance
301-624-8105

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

EQUIPMENT LIST

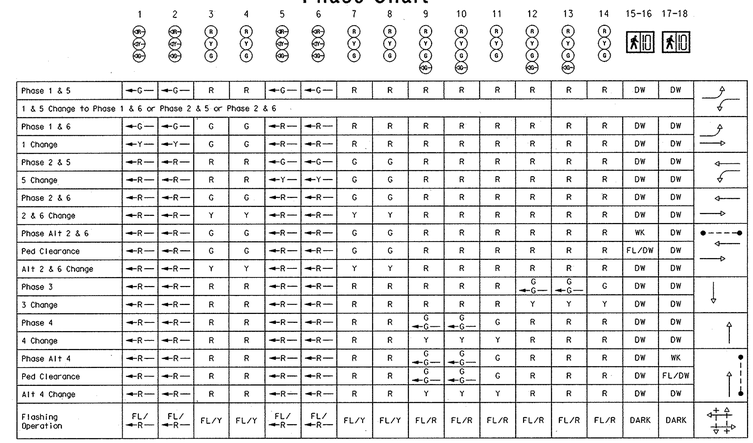
A. S.H.A. furnished equipment material.

None.

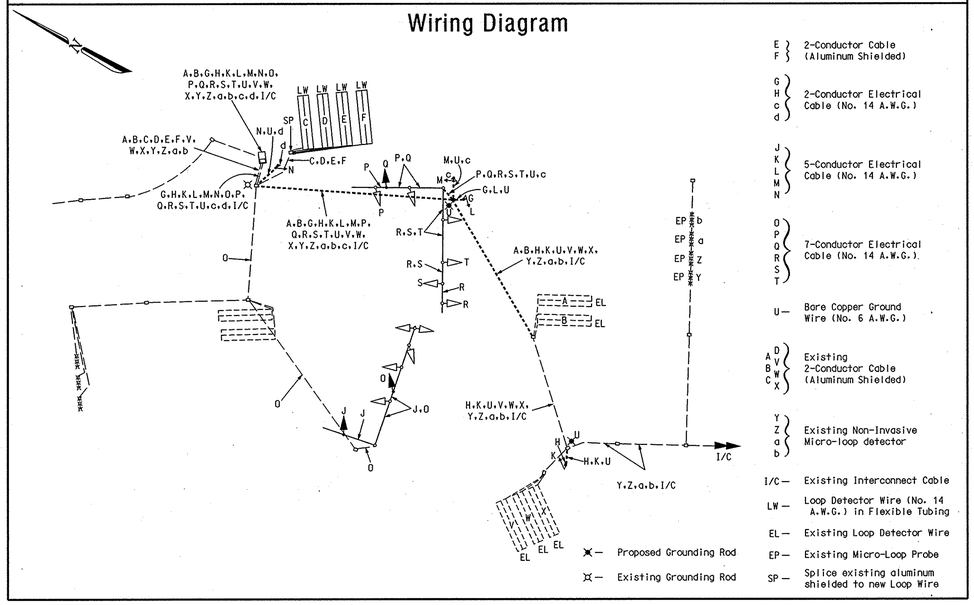
B. Equipment to be furnished and installed by the Contractor.
All equipment in this list shall have catalog cuts submitted for approval prior to installation.

Quantity	Units	Specification Section	Description
Lump Sum	LS	108	Mobilization.
Lump Sum	LS	104	Maintenance of traffic.
4	EA	818	10 ft. steel pedestal pole with break away transformer base.
2	EA	---	NEMA load switch.
1	EA	---	Four-channel rack mounted loop detector amplifier.
1	EA	---	Central control unit for audible pedestrian pushbutton.
4	EA	814	16 in., one-way, one section adjustable LED countdown pedestrian signal head with post top mounting hardware and cut-away visors.
1	EA	813	60 in. x 36 in. R 3-8(7) sign with mast arm mounting hardware.
1	EA	813	18 in. x 24 in. R 4-7 sign for ground mounting.
1	EA	813	18 in. x 18 in. OM 1-1 sign for ground mounting.
4	EA	813	36 in. x 36 in. W 11-2/ W16-7(P) Fluorescent Yellow sign for ground mounting.
4	EA	817	Audible pedestrian pushbutton assembly with pushbutton sign.
1	EA	811	Handhole.
495	LF	815	Sawcut for signal loop detector.
1910	LF	810	Loop detector wire (No. 14 A.W.G.) encased in flexible tubing.
100	LF	810	2-conductor (aluminum shielded) electrical cable (No. 14 A.W.G.).
660	LF	810	2-conductor electrical cable (No. 14 A.W.G.).
775	LF	810	5-conductor electrical cable (No. 14 A.W.G.).
730	LF	810	7-conductor electrical cable (No. 14 A.W.G.).
345	LF	804	Bare copper stranded ground wire (No. 6 A.W.G.).
20	LF	805	1 in. liquid tight flexible non-metallic conduit for loop detector sleeve.
40	LF	805	2 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
5	LF	805	3 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
25	LF	805	4 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
205	LF	805	4 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
1	EA	805	3 in. polyvinyl chloride [Schedule 80] electrical conduit elbow.
2.8	CY	801	Concrete foundation for traffic signal equipment.
2	EA	804	Ground rod - 3/4 in. diameter x 10 ft. length.
65	LF	812	4 in. x 4 in. wood sign support.
140	SF	---	Remove/Replace concrete in island.
3	EA	---	Relocate existing signal head.
225	LF	---	Relocate existing interconnect cable.
450	LF	---	Relocate existing signal cable (aluminum shielded).
Lump Sum	LS	---	As-built for S.H.A. [on CADD].

Phase Chart



Wiring Diagram



Revision "H"

The Traffic Group

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

MD 140 (Baltimore Blvd.) at Englar Road

DRAWN BY: J. Storck	F.A.P. NO. N/A	TS NO. 1578H-GI	SHEET NO.
CHECKED BY:	S.H.A. NO. BW996M82		
SCALE: N/A	COUNTY: Carroll	T.I.M.S. NO. H290.	2 OF 2
DATE: April 20, 2006	LOG MILE: 06014009.62		

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