FHWA REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD			

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of the existing traffic control signal at the intersection of MD 140 and MD 30 in Baltimore County, Maryland. MD 140 is considered to run in a north/south direction.

II. INTERSECTION OPERATION

The intersection operates in NEMA five (5) phase, full-traffic-actuated mode.

The existing cabinet/controller, and phasing will be utilized.

EQUIPMENT LIST

A. 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
3	EA	---	Micro-loop probes (set of 3) with 500 ft. lead-in cable.

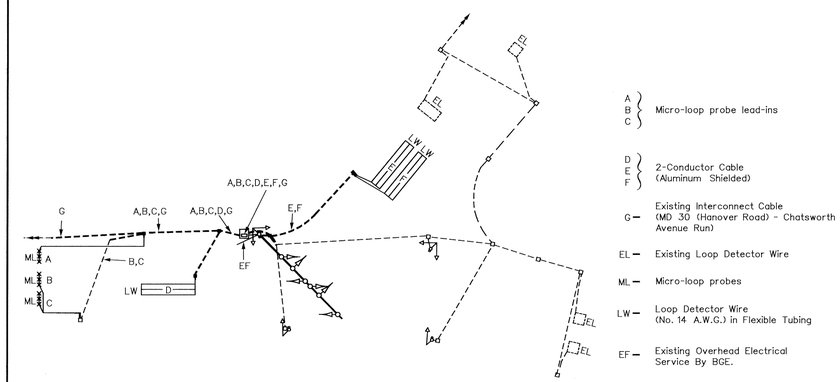
B. Equipment to be furnished and installed by the Contractor. All equipment in this list shall have catalog cuts submitted for approval prior to installation.

Quantity	Units	Specification Section	Description
Lump Sum	LS	108	Mobilization.
Lump Sum	LS	104	Maintenance of traffic.
1	CY	205	Test pit excavation.
5	EA	811	Handhole.
425	LF	815	Sawcut for signal loop detector.
1245	LF	810	Loop detector wire (No. 14 A.W.G.) encased in flexible tubing.
195	LF	810	2-conductor (aluminum shielded) electrical cable (No. 14 A.W.G.).
20	LF	810	1 in. liquid tight flexible non-metalic conduit for loop detector sleeve.
140	LF	805	2 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
30	LF	805	2 in. polyvinyl chloride [Schedule 80] electrical conduit - slotted in roadway.
170	LF	805	3 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
1	EA	805	2 in. ø 30° conduit bend.
2	EA	805	3 in. ø 30° conduit bend.
1	EA	804	Ground rod -3/4 in. diameter x 10 ft. length.
100	LF	500	12 in wide HAPPTPM - white for crosswalk.
90	LF	---	Removal of existing pavment markings.
Lump Sum	LS	---	Removal of existing signal equipment.
Lump Sum	LS	---	As-built for S.H.A [on CADD].

Phase Chart

	1	2	3	4	5	6	7-12	
Phase 2 & 5	G / G	G	R	R	R	R / G	DW	
5 Change	G / Y	G	R	R	R	R / Y	DW	
Phase 2 & 6	G	G	G	G	R	R	DW	
2 & 6 Change	Y	Y	Y	Y	R	R	DW	
Phase 3	R	R	R	R	G	G	DW	
3 Change	R	R	R	R	Y	Y	DW	
Phase 4	R	R	R	R	R	R	WK	
Ped Clearance	R	R	R	R	R	R	FL/DW	
4 Change	R	R	R	R	R	R	DW	
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	DARK	

Wiring Diagram



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Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

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CHK. BY: Bruce Thompson 12-4-97

(General Information)

MD 140 at MD 30

COUNTY: BALTIMORE LOG MILE • 03003000.00

DATE: November 24, 1997 F.A.P. NO. N/A
SCALE: N/A S.H.A. NO. BW996M82

TS/STD. NO. 435D-GI

SHEET NO. 2 of 2