PROJECT DESCRIPTION

I. GENERAL

This project involves the modification to the existing traffic control signal at the intersection of MD 223 and Old Alexandria Road/Dangerfield Road in Prince George's County, Maryland. MD 223 is considered to run in a north/south direction.

II. INTERSECTION OPERATION

The intersection shall utilize the existing cabinet/controller and phasing

The median in the East leg of the intersection is to be removed. An Right turn Lane is to be added to the North and East legs of the intersection, requiring loop detector replacement.

CONTACT LIST

The contact persons for District #3 are as follows:

Mr. Brian Young
Assistant District Engineer - Traffic
301-513-7358

Mr. Augie Rebish
Assistant District Engineer - Utility
301-513-7350

Mr. Wayne Mowdy
Assistant District Engineer - Maintenance
301-513-7304

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

Mr. Ed Rodenhizer
Supervisor, Signal Shop
410 787-7650

EQUIPMENT LIST

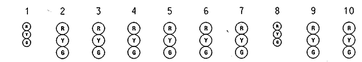
A. S.H.A. furnished equipment material.

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.

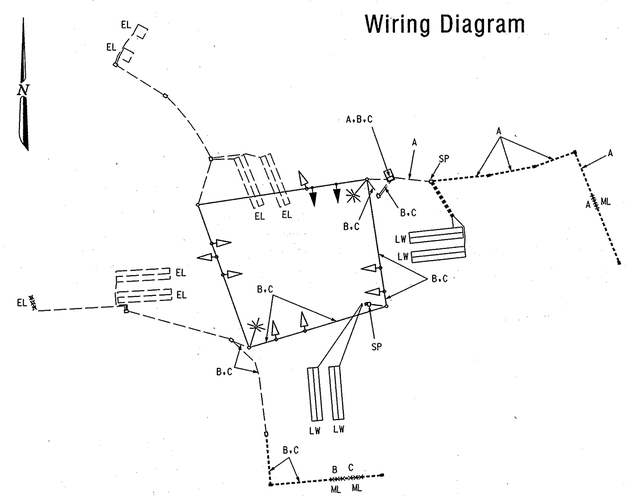
Quantity	Units	Specification Section	Description
Lump Sum	LS	108	Mobilization.
Lump Sum	LS	104	Maintenance of traffic.
1	CY	205	Test pit excavation.
1	EA	813	30 in. x 36 in. R3-5(L) sign with span wire mounting hardware.
1	EA	---	Micro-loop probe (set of 3) with 500 ft. lead-in cable.
1	EA	---	Micro-loop probe (set of 3) with 1000 ft. lead-in cable.
6	EA	811	Handhole.
535	LF	815	Sawcut for signal loop detector.
2000	LF	810	Loop detector wire (No. 14 A.W.G.) encased in flexible tubing.
10	LF	805	1 in. liquid tight flexible non-metallic conduit for loop detector sleeve.
50	LF	805	1 in. galvanized steel electrical conduit for loop detector sleeve.
100	LF	805	2 in polyvinyl chloride (Schedule 80) electrical conduit - trenched.
65	LF	805	3 in. polyvinyl chloride (Schedule 80) electrical conduit - trenched.
375	LF	805	3 in. polyvinyl chloride (Schedule 80) electrical conduit - bored.
50	LF	549	24 in. wide HAPPTPM - white for stop line.
2	EA	---	Relocate existing span wire signal head.
Lump Sum	LS	---	Remove and dispose of existing traffic signal equipment.
Lump Sum	LS	---	As-built for S.H.A. (on CADD).

Phase Chart



	1	2	3	4	5	6	7	8	9	10	
Phase 2 & 6	G	G	G	G	G	R	R	R	R	R	←
2 & 6 Change	Y	Y	Y	Y	Y	R	R	R	R	R	→
Phase 4 & 8	R	R	R	R	R	G	G	G	G	G	↓ ↑
4 & 8 Change	R	R	R	R	R	Y	Y	Y	Y	Y	
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	

Wiring Diagram



A, B, C — Non-Invasive Micro-loop Detector Lead-in Cable

SP — Splice Loop Wire To Existing Aluminum Shielded Cable

LW — Loop Detector Wire (No. 14 A.W.G.) in Flexible Tubing

EL — Existing Loop Detector

ML — Micro-loop Detector (Non-Invasive)

Revision "C"

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

MD 223 at Alexandria Ferry Road/Dangerfield Road

DRAWN BY:	J. Dirndorfer	F.A.P. NO.	N/A	TS NO. 1747C-GI	SHEET NO.
CHECKED BY:		S.H.A. NO.	BW996M82		
SCALE:	N/A	COUNTY:	Prince George's	T.I.M.S. NO. I216	2 OF 2
DATE:	December 12, 2006	LOG MILE:	16022308.56		

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