

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of the existing traffic control signal at the intersection of US 29 and Musgrove Road in Montgomery County, Maryland. US 29 is considered to run in a north/south direction.

II. INTERSECTION OPERATION

The intersection currently operates in NEMA five (5) phase, semi-traffic-actuated mode. The existing phasing, and controller/cabinet will be utilized.

This work involves the installation of new loop detectors for westbound Musgrove Road.

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
7.5	SF	813	30 in. x 36 in. R 3-5(L) sign with span wire mounting hardware.

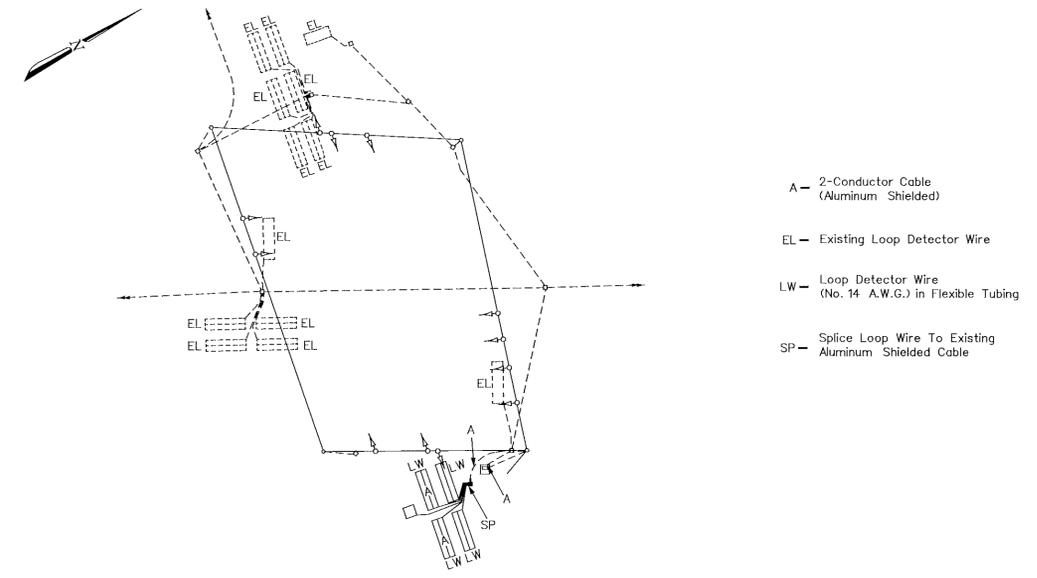
B. Equipment to be furnished and installed by the Contractor. All equipment in this list shall have catalog cuts submitted for approval prior to installation.

Quantity	Units	Specification Section	Description
Lump Sum	LS	108	Mobilization.
Lump Sum	LS	104	Maintenance of traffic.
480	LF	815	Sawcut for signal loop detector.
1480	LF	810	Loop detector wire (No. 14 A.W.G.) encased in flexible tubing.
60	LF	810	2-conductor (aluminum shielded) electrical cable (No. 14 A.W.G.).
25	LF	805	1 in liquid tight flexible non-metallic conduit for loop detector sleeve.
1	EA	811	Handhole.
LS	LS	---	Remove and salvage existing traffic signal equipment.
LS	LS	---	As-built for S.H.A.

Phase Chart

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

Wiring Diagram



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

DRAWN BY: Frank Hoeckel		(General Information)	
DES. BY: Frank Hoeckel		US 29 at Musgrove Road	
CHK. BY: <i>[Signature]</i>		COUNTY: MONTGOMERY	LOG MILE: 1500290.25
DATE: January 7, 1997	F.A.P. NO. N/A	TS/STD. NO. 2124B-GI	SHEET NO. 2 of 2
SCALE: N/A	S.H.A. NO. BW953M82		

The Traffic Group
The Traffic Group, Inc.
Suite 600
40 W. Chesapeake Avenue
Towson, Maryland 21284
410-583-8405
1-800-583-8411
Fax 410-321-8458
Job No. 960824
SIGPLAN.DGN