PROJECT DESCRIPTION

GENERAL

This project involves the modification of the traffic signal at the intersection of MD 146 (Dulaney Valley Road) at Fairmount Avenue in Baltimore County.

INTERSECTION OPERATION

Intersection operation is to remain unchanged.
Existing cabinet/controller to be utilized.
APS 2-wire central control unit to be installed in cabinet.

SPECIAL NOTES

PROJECT CONTACTS:

1. The following contact persons for this project are as follows:
   - Randall Scott, Assistant District Engineer - Traffic
     Phone: (410)-321-2781
   - David Creighton, Assistant District Engineer - Construction
     Phone: (410)-321-2821
   - Steven Marcisz̧ewski, Assistant District Engineer - Maintenance
     Phone: (410)-321-2761
   - Michael Pasquariello, Utility Engineer
     Phone: (410)-321-2841
   - Richard Daff, Chief - Traffic Operations
     Phone: 410-788-7630
   - Edward Rodenhizer, Signal Operations
     Phone: (410)-787-7652

EQUIPMENT LIST

A. Equipment to be supplied by the administration.
None.

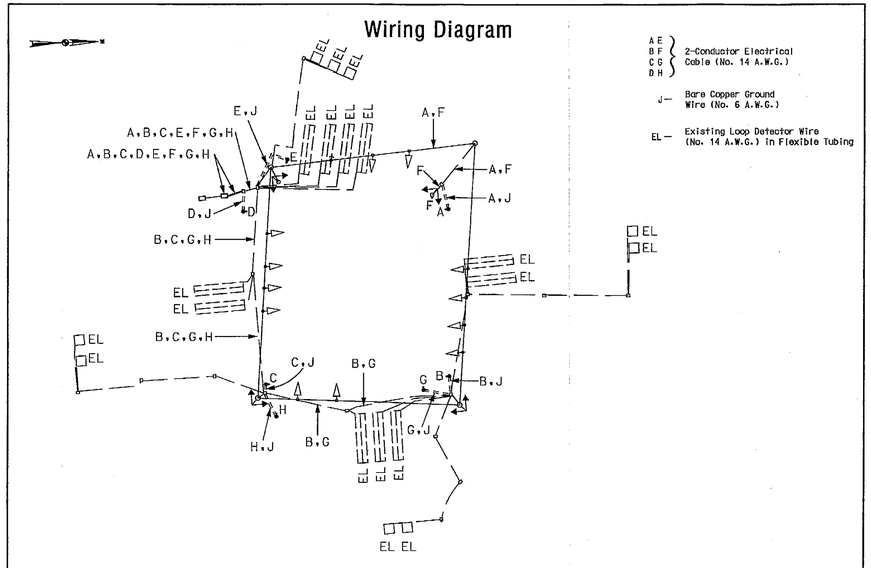
B. Equipment to be furnished and/or installed by the contractor.

Quantity	Units	Specification Section	Description
Lump Sum	LS	108	Mobilization.
Lump Sum	LS	104	Maintenance of traffic.
7	EA	818	5 ft. steel pedestal pole with break away transformer base.
2	EA	814	16 in., two-way, one section L.E.D. (Countdown Indications) adjustable pedestrian signal head with pole mounting hardware and cut-away visors.
2	EA	814	16 in., two-way, one section L.E.D. (Countdown Indications) adjustable pedestrian signal head with post top mounting hardware and cut-away visors.
1	EA	817	Central Control Unit for audible pedestrian pushbutton.
8	EA	817	Audible pedestrian pushbutton assembly with a 9 in. x 15 in. R10-3D1 pushbutton sign.
7	CY	205	Test pit excavation.
1840	LF	810	2-conductor electrical cable (No. 14 A.W.G.).
110	LF	804	Bare copper stranded ground wire (No. 6 A.W.G.).
55	LF	805	2 in. polyvinyl chloride (Schedule 80) electrical conduit - trenched.
45	LF	805	2 in. polyvinyl chloride (Schedule 80) electrical conduit - bored.
7	CY	801	Concrete foundation for traffic signal equipment.
1 690 ~~850~~	LF	549	12 in. wide HAPPTPM - white for crosswalk.
1 90 ~~280~~	LF	549	24 in. wide HAPPTPM - white for stop line.
1	LS	---	Remove and dispose of existing signal equipment.

Phase Chart

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PHASE 1 AND 5	←G–	←G–	R	R	←G–	←G–	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6																				
PHASE 1 AND 6	←G–	←G–	G	G	←R–	←R–	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
1 AND 6 CHANGE	←Y–	←Y–	G	G	←R–	←R–	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 2 AND 5	←R–	←R–	R	R	←G–	←G–	G	G	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
5 CHANGE	←R–	←R–	R	R	←Y–	←Y–	G	G	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 2 AND 6	←R–	←R–	G	G	←R–	←R–	G	G	R	R	R	R	W/K	W/K	W/K	W/K	D/W	D/W	D/W	D/W
PED CLEARANCE	←R–	←R–	G	G	←R–	←R–	G	G	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW	DW	DW
2 AND 6 CHANGE	←R–	←R–	Y	Y	←R–	←R–	Y	Y	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 3 AND 7	←R–	←R–	R	R	←R–	←R–	R	R	←R/G	R	←R/G	R	DW	DW	DW	DW	DW	DW	DW	DW
3 AND 7 CHANGE TO 3 AND 8, 4 AND 7, OR 4 AND 8																				
PHASE 3 AND 8	←R–	←R–	R	R	←R–	←R–	R	R	←G/G	G	R	R	DW	DW	DW	DW	DW	DW	DW	DW
3 CHANGE	←R–	←R–	R	R	←R–	←R–	R	R	←Y/G	G	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 AND 7	←R–	←R–	R	R	←R–	←R–	R	R	R	R	←G/G	G	DW	DW	DW	DW	DW	DW	DW	DW
7 CHANGE	←R–	←R–	R	R	←R–	←R–	R	R	R	R	←Y/G	G	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 AND 8	←R–	←R–	R	R	←R–	←R–	R	R	G	G	G	G	DW	DW	DW	DW	DW	DW	DW	DW
4 AND 8 CHANGE	←R–	←R–	R	R	←R–	←R–	R	R	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 ALT AND 8 ALT	←R–	←R–	R	R	←R–	←R–	R	R	G	G	G	G	DW	DW	DW	DW	WK	WK	WK	WK
PED CLEARANCE	←R–	←R–	R	R	←R–	←R–	R	R	G	G	G	G	DW	DW	DW	DW	FL/DW	FL/DW	FL/DW	FL/DW
ALT 4 AND 8 ALT CHANGE	←R–	←R–	R	R	←R–	←R–	R	R	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
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	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK
PRE EMPTION	←R–	←R–	R	R	←R–	←R–	R	R	R	R	←G/G	G	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK

Wiring Diagram



NOTE: Use existing 5-conductor for all pedestrian signal heads

Red-Line Revision 1

MDOT-SHA O.O.T.S.
S.H.A. Approval — Date 1-14-09
T.S.- 1927D Log 03014600.29
T.I.M.S. No.- 1533

The Traffic Group, Inc.
Suite H
9900 Franklin Square Drive
Baltimore, Maryland 21236
410-931-6600
1-800-583-8411
Fax 410-931-6601

BY: FBrownley

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 146 (Dulaney Valley Rd) @ Fairmount Avenue

GENERAL INFORMATION PLAN

SCALE NA DATE 1 January 14, 2009 CONTRACT NO. BW996M82

DESIGNED BY F. Brownley
DRAWN BY F. Brownley
CHECKED BY
F.A.P. NO. NA
COUNTY Baltimore
LOGMILE 03004502.78
TIMS NO. H423
TOD NO.

TS NO. 1927D | DRAWING | SHEET NO. 2 OF 4