

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of the existing traffic control signal at the intersection of MD 197 and Town Center Blvd. in Prince George's County, Maryland. MD 197 is considered to run in a north/south direction.

II. INTERSECTION OPERATION

The intersection is to be modified to operate in a NEMA six (6) phase, full-traffic-actuated mode. There will be an exclusive left turn phase for both the north and southbound movements of MD 197 with a concurrent right turn overlap for the eastbound Town Center Blvd. to southbound MD 197 movement. The MD 197 through movements will operate concurrently. The Town Center Blvd. movements will operate as a side Street split operation with an actuated pedestrian movement across the north leg of the intersection.

The existing cabinet/controller will be utilized. Video camera detection equipment, and load switches will be installed.

EQUIPMENT LIST

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

None.

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

All equipment in this list shall have catalog cuts submitted for approval prior to installation.

Quantity	Units	Specification Section	Description
1	EA	8184	10 ft. pedestal pole with break away transformer base.
2	EA	8	Video camera detection and video Interface Equipment (with Necessary Cable). Two (2) - 300 ft.
3	EA	814	12 in., one-way, three section (R,A,Y,G) adjustable black faced traffic signal head with span wire hardware and tunnel visors.
1	EA	814	12 in., one-way, three section (R,Y,G) adjustable black faced traffic signal head with span wire mounting hardware and tunnel visors.
2	EA	814	12 in., one-way, four section (R,Y,G,G) adjustable black faced traffic signal head with span wire mounting hardware and tunnel visors.
2	EA	814	12 in./8 in., one-way, four section (12 in. GA/ 8 in. R,Y,G) adjustable black faced traffic signal head with span wire mounting hardware and tunnel visors.
1	EA	814	12 in one way, two section (symbolic DW/WK) adjustable pedestrian signal head with post top mounting hardware and out-away visors.
1	EA	814	12 in. one way, two section (symbolic DW/WK) adjustable pedestrian signal head with pole mounting hardware and out-away visors.
2	EA	---	Load Switch
4	EA	813	30 in. x 36 in. R 3-S(L) sign with span wire mounting hardware.
1	EA	813	30 in. x 36 in. R 3-S(R) sign with span wire mounting hardware.
1	EA	813	30 in. x 51 in. Shield Assem. (black non-reflective background) with pole mounting hardware.
1	EA	813	48 in. x 75 in. Shield Assem. (black non-reflective background) with pole mounting hardware.
2	EA	817	Pedestrian pushbutton assembly with pushbutton sign.
Lump Sum	LS	108	Mobilization.
Lump Sum	LF	810	Maintenance of traffic.
410	LF	810	2-conductor electrical cable (No. 14 A.W.G.)
1135	LF	810	5-conductor electrical cable (No. 14 A.W.G.)
485	LF	810	7-conductor electrical cable (No. 14 A.W.G.)
15	LF	810	Bare copper stranded ground wire (No. 6 A.W.G.)
10	LF	805	2 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
370	LF	549	12 in. wide HAPPTPM - white for crosswalk.
125	LF	812	24 in. wide HAPPTPM - white for stop line.
2	EA	---	Modify Street name sign.
Lump Sum	LS	---	Removal /Relocation of existing traffic signal equipment.
Lump Sum	LS	---	As-built for S.H.A. (on CAD01).

CONTACT LIST

The contact persons for District #3 are as follows:

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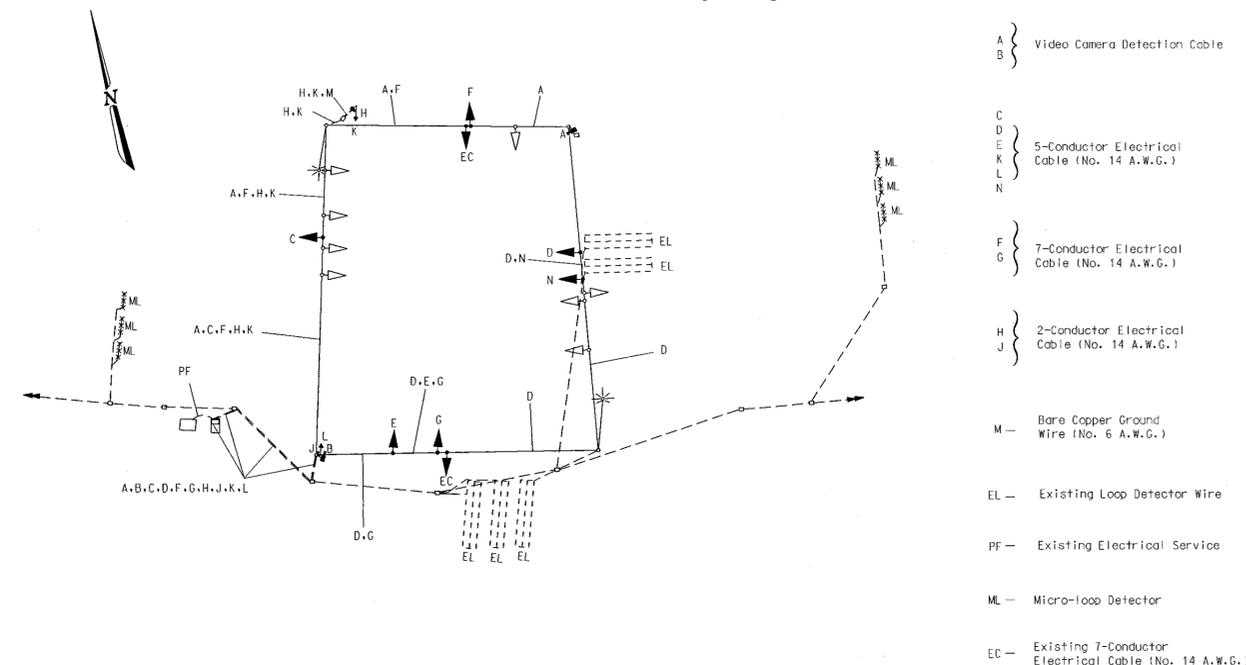
Mr. Wayne Mowdy
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Chief, Traffic Operations Division
410-787-7630

Phase Chart

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	36,37
Phase 1 & 5	←G	←G	←G	R	R	←G	←G	←G	R	R	R	R	R	R	R	R	DW
1 & 5 Change to Phase 1 & 6 or Phase 2 & 5 or Phase 2 & 6	←G	←G	←G	G	G	←R	←R	←R	R	R	R	R	R	R	R	R	DW
Phase 1 & 6	←G	←G	←G	G	G	←R	←R	←R	R	R	R	R	R	R	R	R	DW
1 Change	←Y	←Y	←Y	G	G	←R	←R	←R	R	R	R	R	R	R	R	R	DW
Phase 2 & 5	←R	←R	←R	R	R	←G	←G	←G	G	G	R	R	R	R	R	R	DW
5 Change	←R	←R	←R	R	R	←Y	←Y	←Y	G	G	R	R	R	R	R	R	DW
Phase 2 & 6	←R	←R	←R	G	G	←R	←R	←R	G	G	R	R	R	R	R	R	DW
2 & 6 Change	←R	←R	←R	Y	Y	←R	←R	←R	Y	Y	R	R	R	R	R	R	DW
Phase 3	←R	←R	←R	R	R	←R	←R	←R	R	R	R	R	R	G	G	G	DW
3 Change	←R	←R	←R	R	R	←R	←R	←R	R	R	R	R	R	Y	Y	Y	DW
Phase Alt. 3	←R	←R	←R	R	R	←R	←R	←R	R	R	R	R	R	G	G	G	NK
Ped Clear	←R	←R	←R	R	R	←R	←R	←R	R	R	R	R	R	G	G	G	FL/DW
Alt. 3 Change	←R	←R	←R	R	R	←R	←R	←R	R	R	R	R	R	Y	Y	Y	DW
Phase 4	←R	←R	←R	R	R	←R	←R	←R	R	R	R	R	R	G	G	G	DW
4 Change	←R	←R	←R	R	R	←R	←R	←R	R	R	R	R	R	Y	Y	Y	DW
Flashing Operation	←FL/R	←FL/R	←FL/R	FL/Y	FL/Y	←FL/R	←FL/R	←FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK

Wiring Diagram



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
(General Information Plan)
MD 197 at Town Center Blvd.

DRAWN BY: Frank Hoeckel	F.A.P. NO. N/A	TS NO. GI-4097A	SHEET NO. 2 OF 2
CHECKED BY:	S.H.A. NO. BW996M82	T.I.M.S. NO. 6440	
SCALE: N/A	COUNTY: Prince George's		
DATE: August 30, 2004	LOG MILE: 16019701.00		

FILES 80478