DRILL HOLES

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BORDER REV. DATE: June 1, 2004

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of the existing traffic control signal at the intersection of MD 32 (Sykesville Rd) and MD 99 / Old Frederick Road in Howard County, Maryland. MD 32 is considered to run in a north/south direction.

Intersection modifications include widening of MD 99 along the site frontage and the installation of Fire House pre-emption and HIB's for the New West Friendship VFC.

II. INTERSECTION OPERATION

The intersection operate is to remain unchanged.

A pre-emption phase for WB MD 99 to be actuated by a pushbutton located at the West Friendship VFC is to be installed. The HIB's will also be actuated by the same pushbuttons.

CONTACT LIST

The contact persons for District #7 are as follows:

Mr. John Concannon
Assistant District Engineer - Traffic
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Ms. Andrea Abend
District Utility Engineer
301-624-8115

Mr. Raymond F. Johnson
Assistant District Engineer - Maintenance
301-624-8105

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

Mr. Edward Rodenhizer
Supervisor, Signal Operations
410-787-7652

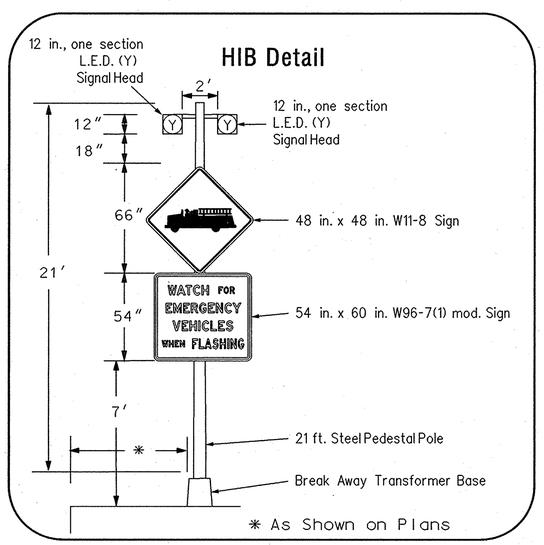
EQUIPMENT LIST

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

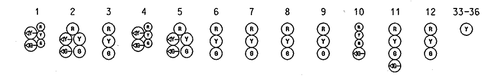
Quantity	Units	Specification Section	Description
Lump Sum	LS	108	Mobilization.
Lump Sum	LS	104	Maintenance of traffic.
2	CY	205	Test pit excavation.
2	EA	818	21 ft. steel pedestal pole with break away transformer base
4	EA	814	12 in., one-way, one section L.E.D. (Y) adjustable black faced traffic signal head with pole mounting hardware and tunnel visors.
1	EA	814	12 in., one-way, three section L.E.D. (R,Y,G) adjustable black faced traffic signal head with mast arm mounting hardware and tunnel visors.
1	EA	814	12 in., one-way, four section L.E.D. (R,Y,G,GA) adjustable black faced traffic signal head with mast arm mounting hardware and tunnel visors.
1	EA	814	12 in./8 in., one-way, four section L.E.D. (12 in. GA/ 8 in. R,Y,G) adjustable black faced traffic signal head with mast arm mounting hardware and tunnel visors.
4	EA	---	Pushbutton for fire house pre-emption with 9 in. x 6 in. sign
2	EA	813	48 in. x 48 in. W11-8 sign with pole mounting hardware.
2	EA	813	54 in. x 60 in. W96-7(1) mod. sign with pole mounting hardware.

Quantity	Units	Specification Section	Description
4500	LF	810	5-conductor electrical cable (No. 14 A.W.G.).
1500	LF	804	Bare copper stranded ground wire (No. 6 A.W.G.).
1100	LF	805	3 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
175	LF	805	3 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
2	CY	801	Concrete foundation for traffic signal equipment.
2	EA	804	Ground rod - 3/4in. diameter x 10 ft. length.
9	EA	811	Handhole.
Lump Sum	LS	---	Remove and dispose of existing signal equipment.

HIB Detail



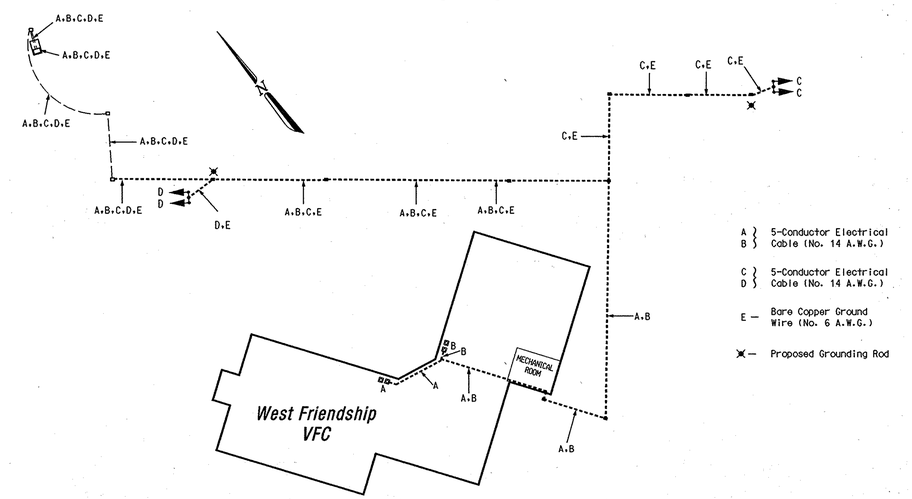
Phase Chart



	1	2	3	4	5	6	7	8	9	10	11	12	33-36	
Phase 1 & 5	R G	R G	R	R G	R G	R	R	R	R	R	R	R	DARK	
1 & 5 Change to Phase 1 & 6 or Phase 2 & 5 or Phase 2 & 6														
Phase 1 & 6	G G	G G	G	R	R	R	R	R	R	R	R	R	DARK	
1 Change	G Y	G Y	G	R	R	R	R	R	R	R	R	R		
Phase 2 & 5	R	R	R	G G	G G	G	R	R	R	R	R	R	DARK	
5 Change	R	R	R	G Y	G Y	G	R	R	R	R	R	R		
Phase 2 & 6	G	G	G	G	G	G	R	R	R	R	R	R	DARK	
2 & 6 Change	Y	Y	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	DARK	
4 & 8 Change	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y		
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	

Pre-emption- A	R	R	R	R	R	R	R	R	R	G G	G G	G	FL/Y		WB MD 99
Pre-emption-B	---	---	---	---	---	---	---	---	---	---	---	---	FL/Y	No Change HIB ONLY	EB MD 99

Wiring Diagram



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NOTE

These plans are approved for construction for a period of one (1) year from the date of approval. Should construction not begin within this time frame these plans shall be null and void without a re-review from the Traffic Engineering design Division.

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

WEST FRIENDSHIP VFC

MD 32 @ MD 99 /Old Frederick Rd.

GENERAL INFORMATION PLAN

SCALE N/A DATE 4/22/07 CONTRACT NO. BW996M82

DESIGNED BY F. Brownley
DRAWN BY F. Brownley
CHECKED BY
F.A.P. NO. N/A

COUNTY Howard
LOGMILE 13003220.98
T.I.M.S. NO. I-359
TOD NO.

DRAWING NO. TS - 3443C-GI

SHEET NO. 3 OF 3

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