PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing Traffic Control Signal at the intersection of MD 355 (Hungerford Dr.) and North Washington Street / Giant Ent. in Montgomery County. The existing interconnect cable shall be maintained north to Frederick St. and south to the Hungerford Plaza Ent. Pedestrian phasing shall be added on the west leg of the intersection. MD 355 is assumed to run in a north-south direction.

II. INTERSECTION OPERATION

1. The intersection shall continue to operate in a six-phase, semi-actuated mode, with the MD 355 approaches running concurrently. Exclusive/ Permissive left turn movements shall continue to be provided in both directions of MD 355. The North Washington St. and the Giant Ent. shall continue to operate in a split-phase. The pedestrian phase with pushbutton actuation across the south leg of MD 355 shall remain in operation. A new pedestrian phase across the Giant Entrance shall be placed on recall. The existing pedestrian phase across North Washington Street shall remain on recall.

2. The existing full-traffic-actuated, eight-phase controller with L.A.U. and L.A.U. Panel and all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be utilized at this intersection.

III. SPECIAL NOTES

1. The Contractor shall be responsible for terminating all signal cables, to the appropriate terminals and shall properly label each cable.

2. All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.

3. The Contractor shall contact Mr. Bruce Mangum at (240) 777-8778 seventy-two hours in advance of intended work.

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY S.H.A..

section	description	quantity	Unit
9570	SHEET ALUMINUM GROUND MOUNTED SIGN	24	SF
	R4-7 "Keep Right (Symbolic)" sign. (24"x30")	1	EA
	W11-2 "Pedestrian Crossing (Symbolic)" sign. (30"x30')	2	EA
	M6-2 "Directional Arrow" sign. (21"x15")	2	EA
	"ST" patch on Scotch Lite Overlay (Note: Overlay to be placed over ""RD"" on Washington RD sign.)"	2	EA

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

section	description	quantity	Unit
11001	Maintenance of traffic per assignment.	1	EA
2001	Class 2 Excavation.	2	C.Y.
5003	12" white heat applied permanent preformed thermoplastic pavement marking.	245	L.F.
5004	24" white heat applied permanent preformed thermoplastic pavement marking.	45	L.F.
5005	Removal of existing permanent pavement line markings	40	L.F.
6001	Standard type A combination curb and gutter 12" gutter pan 8" depth (includes depressed curb and gutter).	100	L.F.
6002	Monolithic conrete median 4', type A-1.	5	L.F.
6003	4" concrete sidewalk.	250	S.F.

EQUIPMENT LIST (CONT)

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

section	description	quantity	Unit
8001	Furnish and install 12" pedestrian signal head section	4	EA
8011	Pedestrian pushbutton and R10-4(1) sign. (Note: Sign to be blank at top).	1	EA
8021	Detectable warning surface (truncated domes).	48	S.F.
8025	Furnish and install wood sign supports 4" x 4".	15	L.F.
8046	Install ground mounted sign.	24	SF
8061	Furnish and install electrical cable -5 conductor (No. 14 AWG).	425	L.F.
Neg.	Furnish and install wood sign supports 4" x 6".	35	L.F.

C. EQUIPMENT TO BE REMOVED

ALL REMOVED MATERIALS ARE TO BECOME PROPERTY OF THE CONTRACTOR.

The contact persons for District #3 (Montgomery County) are as follows:

Mr. Lee Starkloff
Assistant District Engineer - Traffic
Phone: (301) 513-7318

Mr. Wayne Mowdy
Assistant District Engineer - Maintenance
Phone: (301) 513-7304

Mr. Augie Rebish
District Engineer - Utility
Phone: (301) 513-7350

Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
Phone: (410) 787-7630

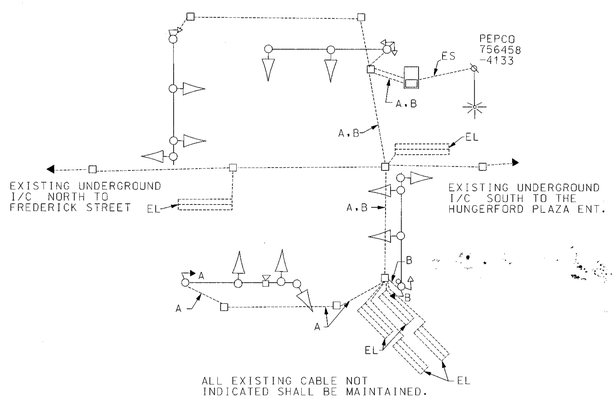
Mr. Ed Rodenhizer
Signal Shop
Phone: (410) 787-7652

Mr. Sonny Bailey
Sign Shop
Phone: (410) 787-7670

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
PHASE 1 & 5	◄G-/R	◄G-/R	R	◄G-/R	◄G-/R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
CHANGES TO PHASES 1 & 6, 2 & 5 OR 2 & 6																	
PHASE 1 & 6	◄G-/G	◄G-/G	G	R	R	R	R	R	R	R	R	DW	WK	WK	DW	DW	DW
1 & 6 CHANGE	◄Y-/G	◄Y-/G	G	R	R	R	R	R	R	R	R	DW	WK	WK	DW	DW	DW
PHASE 2 & 5	R	R	R	◄G-/G	◄G-/G	G	R	R	R	R	R	WK	DW	DW	WK	DW	DW
2 & 5 CHANGE	R	R	R	◄Y-/G	◄Y-/G	G	R	R	R	R	R	WK	DW	DW	WK	DW	DW
PHASE 2 & 6	G	G	G	G	G	G	R	R	R	R	R	WK	WK	WK	WK	DW	DW
PED CLEAR	G	G	G	G	G	G	R	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 3	R	R	R	R	R	R	G ◄G-	G ◄G-	G	R	R	DW	DW	DW	DW	DW	DW
3 CHANGE	R	R	R	R	R	R	Y	Y	Y	R	R	DW	DW	DW	DW	DW	DW
PHASE 4	R	R	R	R	R	R	R	R	R	G	G	DW	DW	DW	DW	DW	DW
4 CHANGE	R	R	R	R	R	R	R	R	R	Y	Y	DW	DW	DW	DW	DW	DW
PHASE 3 ALT	R	R	R	R	R	R	G ◄G-	G ◄G-	G	R	R	DW	DW	DW	DW	WK	WK
PED CLEAR	R	R	R	R	R	R	G ◄G-	G ◄G-	G	R	R	DW	DW	DW	DW	FL/DW	FL/DW
3 CHANGE ALT	R	R	R	R	R	R	Y	Y	Y	R	R	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK

WIRING DIAGRAM



WIRING KEY

A, B } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

EL - EXISTING LOOP WIRE

ES - EXISTING UNDERGROUND SERVICE

SHA#: MON09A69/D69 TOD#: AT582-27

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
MD 355 (HUNGERFORD DRIVE) AND
NORTH WASHINGTON STREET / GIANT FOOD DRIVEWAY
ROCKVILLE, MARYLAND

STREET TRAFFIC STUDIES, LTD.
400 Crain Hwy. NW.
Glen Burnie, MD 21061
Ph (410) 590-5500
Fax (410) 590-6637

DRAWN BY:	RC	F.A.P. NO.	AC-STPG-000S1934(E	TS NO. 376	SHEET NO. 2 OF 2
CHECKED BY:	JA	S.H.A. NO.	AT5825185		
SCALE:	NONE	COUNTY:	MONTGOMERY	T.I.M.S. NO. G652	
DATE:	1/10/05	LOG MILE:	15035510.00		

4721G1.DGN D6-12

...\4000's\4721\4721gi.dgn Jan. 10, 2005 15:04:14