PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES ADDING EXCLUSIVE/PERMISSIVE LEFT-TURN PHASING TO EASTBOUND US 40 AND REPLACING THE EXISTING EXCLUSIVE/PERMISSIVE LEFT-TURN PHASING IN THE WESTBOUND DIRECTION WITH A FLASHING LEFT-TURN SIGNAL. US 40 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA SIX-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH EXCLUSIVE/PERMISSIVE LEFT-TURN PHASING FOR EASTBOUND TRAFFIC. THE WESTBOUND LEFT-TURN WILL FLASH RED UNTIL VEHICLES ACTUATE THE LEFT-TURN SIGNALS. THE SIDE STREET WILL CONTINUE TO OPERATE WITH CONCURRENT PHASING.

CONTROLLER REQUIREMENTS

THE EXISTING CONTROLLER, SETBACK LOOPS, AMPLIFERS, AND ASSOCIATED HARNESSES WILL REMAIN.

THE CONTACT PERSONS FOR DISTRICT #7 ARE AS FOLLOWS:

Mr. John Concannon
Assistant District Engineer - Traffic
Phone: 301-624-8140

Mr. James Buckalew
District Utility Engineer
Phone: 301-624-8115

Mr. Dave Coyne
Assistant District Engineer - Maintenance
Phone: 301-624-8105

Mr. Edward Rodenhizer
Chief, SHA Traffic Signal Shop
Phone: 410-787-7650

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

The Power Company Representative is:
Mr. Nick Beser
Baltimore Gas & Electric Company
7317 Parkway Drive South
Hanover, MD 21076
Phone: 410-859-9062

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO	QUANTITY	DESCRIPTION
9571	76 SF	[UPDATED] SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN
		1 EACH - R10-12(4) (36 IN. X 42 IN.) SPAN WIRE MOUNT
		2 EACH - SHIELD ASSEMBLY (24 IN. X 51 IN.) POLE MOUNT
		2 EACH - SHIELD ASSEMBLY (36 IN. X 75 IN.) POLE MOUNT
		1 EACH - R10-12(4) (36 IN. X 42 IN.) SPAN WIRE MOUNT

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
5004	175 LF	24 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
8013	1 LS	REMOVE AND DISPOSE OF EQUIPMENT
8043	76 SF	INSTALL OVERHEAD SIGN
8052	3 EA	8 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8053	22 EA	12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8058	90 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8059	175 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)

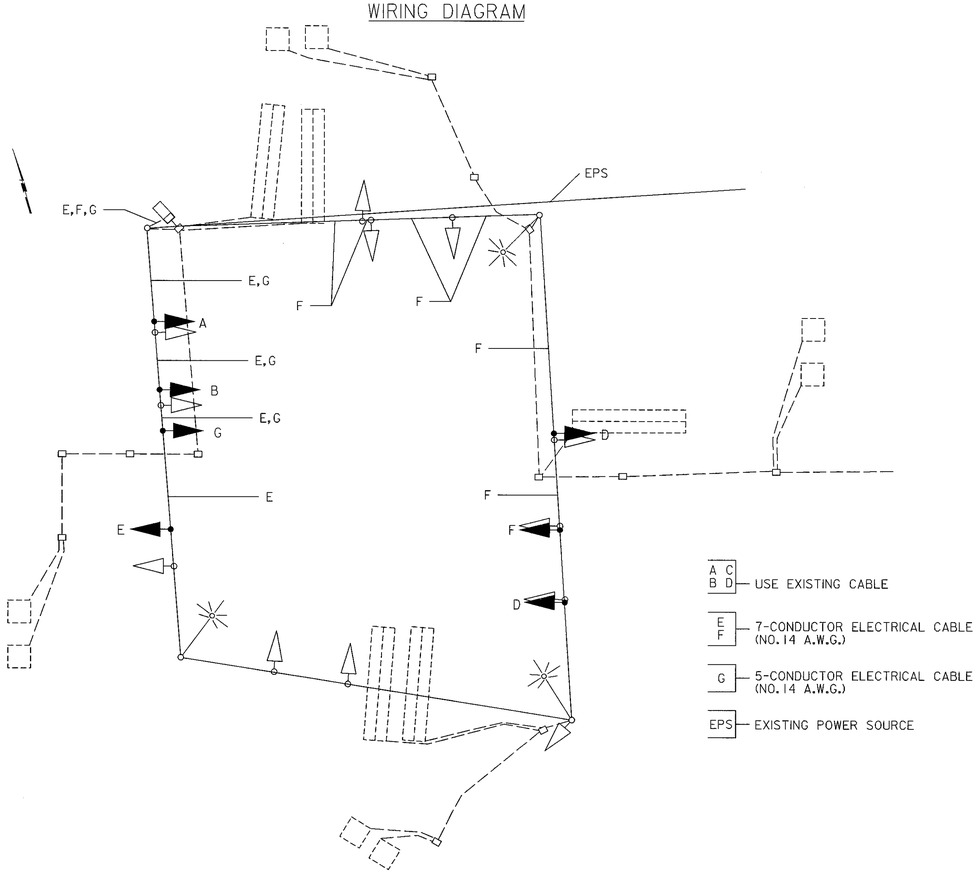
EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

ITEM NO.	QUANTITY	DESCRIPTION

ALL REMOVED MATERIALS ARE TO BECOME THE PROPERTY OF THE CONTRACTOR.

WIRING DIAGRAM



PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13
PHASE 1 + 5	~~G~~	~~G~~	R	R	~~G~~ / R	~~G~~ / R	R	R	R	R	R	R	R
PHASE 1 + 5 CHANGE	THE CONTROLLER MAY SKIP TO PHASE 2 + 5, 1 + 6 OR 2 + 6												
PHASE 1 + 6	~~R~~	~~R~~	R	R	~~G~~ / G	~~G~~ / G	G	R	R	R	R	R	R
PHASE 1 + 6 CHANGE	~~R~~	~~R~~	R	R	~~Y~~ / Y	~~Y~~ / Y	Y	R	R	R	R	R	R
PHASE 2 + 5	~~G~~	~~G~~	G	G	R	R	R	R	R	R	R	R	R
PHASE 2 + 5 CHANGE	~~Y~~	~~Y~~	Y	Y	R	R	R	R	R	R	R	R	R
PHASE 2 + 6	FL/RA	FL/RA	G	G	G	G	G	R	R	R	R	R	R
PHASE 2 + 6 CHANGE	~~R~~	~~R~~	Y	Y	Y	Y	Y	R	R	R	R	R	R
PHASE 4 + 8	~~R~~	~~R~~	R	R	R	R	R	G	G	G	G	G	G
PHASE 4 + 8 CHANGE	~~R~~	~~R~~	R	R	R	R	R	Y	Y	Y	Y	Y	Y
FLASHING OPERATION	FL/RA	FL/RA	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R

STV Incorporated
engineers / architects / planners / scientists / construction managers
7125 Ambassador Road Baltimore, MD 21244-2722 (410) 944-9112

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

US 40 AND MD 144/PEBBLE BEACH DRIVE
GENERAL INFORMATION

SHA #: HD1498A52/D52 TOD #: AT288-74

DRAWN BY:	B. BIDDLE	F.A.P. NO.		TS NO. TS-3391A	SHEET NO.
CHECKED BY:	R. Kipp	S.H.A. NO.			
SCALE:	NONE	COUNTY:	HOWARD	T.I.M.S. NO. G081	2 OF 2
DATE:	JUNE 2004	LOG MILE:	13004015.33		