PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE MODIFICATION OF THE TRAFFIC SIGNAL AT BUSINESS US 1 AND MOORES MILL ROAD IN HARFORD COUNTY, DUE TO THE GEOMETRIC IMPROVEMENTS AT THE INTERSECTION. THE NORTH SIDE OF MOORES MILL ROAD WILL BE WIDENED. VIDEO DETECTION CAMERAS WILL BE INSTALLED FOR PRESENCE DETECTION ON ALL LEGS AND SET BACK DETECTION ON MOORES MILL ROAD. BUSINESS US 1 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA SEVEN-PHASE, FULL-TRAFFIC-ACTUATED MODE. THE EXISTING MAINLINE EXCLUSIVE/PERMISSIVE PHASING WILL REMAIN. THE SIDE STREET EASTBOUND PERMISSIVE AND WESTBOUND EXCLUSIVE/PERMISSIVE PHASING WILL REMAIN.

CONTROLLER REQUIREMENTS

THE EXISTING POLE MOUNTED CABINET, ASSOCIATED HARNESSES, AND LOOP DETECTOR AMPLIFIERS SHALL REMAIN. THE SHA SIGNAL SHOP WILL SUPPLY THE VIDEO DETECTION INTERFACE EQUIPMENT.

PHONE DROP

THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE DROP LINE INSTALLATION. THE CONTRACTOR IS TO NOTIFY MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER.

THE CONTACT PERSONS FOR DISTRICT #4 ARE AS FOLLOWS:

Ms. Erin Kuhn
Assistant District Engineer - Traffic
Phone: 410-321-2781

Mr. Mike Pasquariello
Assistant District Engineer - Utilities
Phone: 410-321-2841

Mr. Steve Maroiszewski
Assistant District Engineer - Maintenance
Phone: 410-321-2761

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:
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.

CATEGORY CODE	QUANTITY	DESCRIPTION
900000	1 EA	VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS

EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

CATEGORY CODE	QUANTITY	DESCRIPTION

NONE - ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR

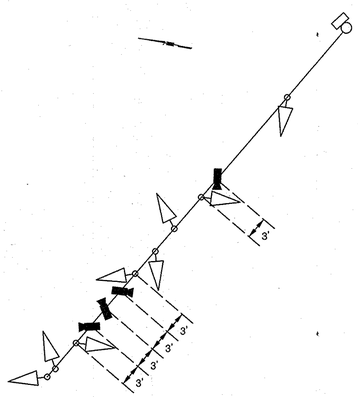
EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

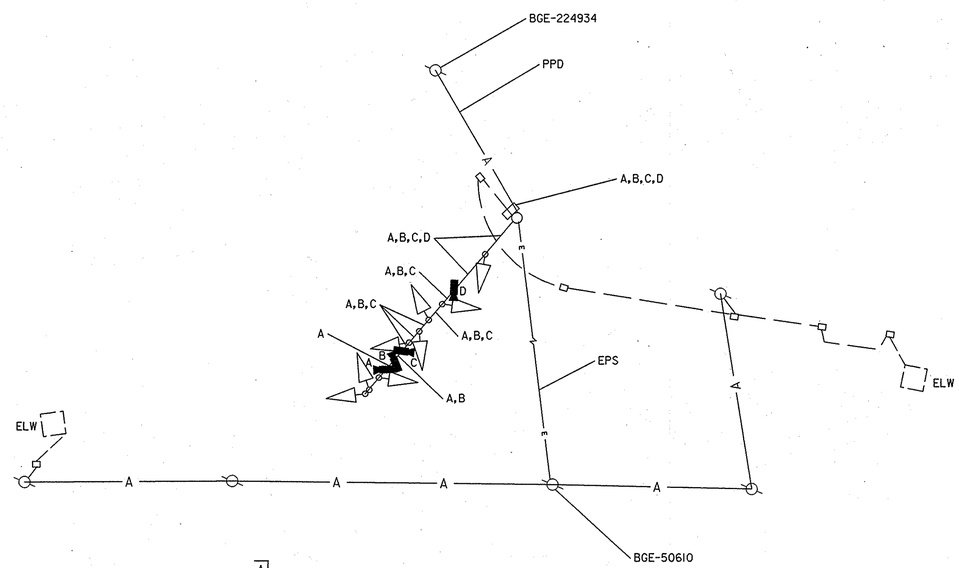
CATEGORY CODE	QUANTITY	DESCRIPTION
120500	1 LS	MAINTENANCE OF TRAFFIC
585625	120 LF	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
800000	1 EA	REMOVE AND DISPOSE OF EXISTING TRAFFIC SIGNAL EQUIPMENT
811002	7 EA	REMOVE ELECTRICAL HANDHOLE
816001	4 EA	VIDEO DETECTION CAMERA
816005	4 EA	CONTROL CABLE, 250 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER
860292	1 EA	CUT, CLEAN, GALVANIZE, AND CAP TRAFFIC SIGNAL STRUCTURE

PROPOSED VIDEO DETECTION CAMERA LAYOUT

SCALE: 1" = 10'



WIRING DIAGRAM



A, B, C, D — CONTROL CABLE, 250 FT. VIDEO DETECTION CAMERA TO CONTROLLER

ELW — EXISTING LOOP WIRE

PPD — PROPOSED OVERHEAD PHONE DROP TO BE INSTALLED BY OTHERS

EPS — EXISTING POWER SERVICE

PHASE CHART

	1	2	3	4	5	6	7	8
PHASE 1 AND 5	G/R	R	G/R	R	R	R	R	R
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6								
PHASE 1 AND 6	G/G	G	R	R	R	R	R	R
1 CHANGE	Y/G	G	R	R	R	R	R	R
PHASE 2 AND 5	R	R	G/G	G	R	R	R	R
5 CHANGE	R	R	Y/G	G	R	R	R	R
PHASE 2 AND 6	G	G	G	G	R	R	R	R
2 AND 6 CHANGE	Y	Y	Y	Y	R	R	R	R
PHASE 4 AND 7	R	R	R	R	R	R	G/G	G
7 CHANGE	R	R	R	R	R	R	Y/G	G
PHASE 4 AND 8	R	R	R	R	G	G	G	G
4 AND 8 CHANGE	R	R	R	R	Y	Y	Y	Y
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R

SHA NO: BW431M84
US1@ MOORES MILL

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

BUSINESS US 1 AT MOORES MILL ROAD

GENERAL INFORMATION

SCALE NONE DATE OCTOBER 2007 CONTRACT NO. BW996M82

DESIGNED BY SBS
DRAWN BY SBS
CHECKED BY BAB
FAP NO.

COUNTY HARFORD
LOGMILE 12001B03.94
TIMS NO. 1550
TOD NO.

TS NO. 2287D-GI | DRAWING SG- 2 OF 2 | SHEET NO. 20 OF 21

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

BY: thompsma

PLOTTED Thursday, October 11, 2007 AT 12:55 PM
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