DRILL HOLES

BORDER REV: DATE: June 1, 2004

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing Traffic Control Signal with street lighting at the intersection of MD 702 and Old Eastern Avenue in Baltimore County. Exclusive / Permissive left turn phases shall be added to Old Eastern Ave MD 702 is assumed to run a north-south direction.

II. INTERSECTION OPERATION

1. The intersection shall now operate in a NEMA eight-phase, fully-actuated mode, with the MD 702 approaches running concurrently. The Exclusive left turn phases on both approaches of MD 702 shall continue to operate. The pedestrian phase with pushbutton actuation across the south leg of MD 702 shall remain in operation. New Exclusive/Permissive left turn phase shall be provided for both approaches of Old Eastern Avenue. The Old Eastern Avenue approaches shall continue to run concurrently.
2. The existing full-traffic-actuated, eight-phase controller with video interface and all necessary equipment housed in a NEMA size "6" base-mounted cabinet will remain in operation at this intersection.

III. SPECIAL NOTES

1. The Signal Shop shall be responsible for terminating all signal cables, to the appropriate terminals and shall properly label each cable.
2. All controller cabinet wiring will be performed by the S.H.A. Signal Shop
3. All underground and overhead utilities shown on these plans are schematic only and may not be complete.

DRILL HOLES

The contact persons for District #4 are as follows:

Mr. Randall Scott
Assistant District Engineer - Traffic
Phone: (410) 321-2781

Mr. Steve Marciszewski
Assistant District Engineer - Maintenance
Phone: (410) 321-2761

Mr. Michael Pasquariello
Assistant District Engineer - Utility
Phone: (410) 321-2841

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

Mr. Ed Rodenhizer
Signal Shop
410-787-7652

Mr. Sonny Bailey
Sign Shop
410-787-7670

The power company representative is:

Mr. Steve Schneider
Baltimore Gas and Electric
7317 Parkway Drive South
Hanover, MD 21076
410-859-9310

DRILL HOLES

EQUIPMENT LIST

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

ITEM NO.	DESCRIPTION	QUANTITY
	SEE "B" LIST FOR ALL EQUIPMENT TO BE SUPPLIED BY SHA	

EQUIPMENT LIST (CONT.)

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE SHA SIGNAL SHOP

ITEM NO.	DESCRIPTION	QUANTITY
1001	Maintenance of traffic per assignment.	1 EA
8002	12" red or green LED signal head section.	12 EA
8003	12" yellow LED signal head section.	8 EA
8011	8" LED (R,Y,G) signal head section.	6 EA
8028	Remove and dispose of existing equipment per assignment.	1 EA
8079	Electrical cable - 7 conductor (No. 14 AWG).	640 L.F.

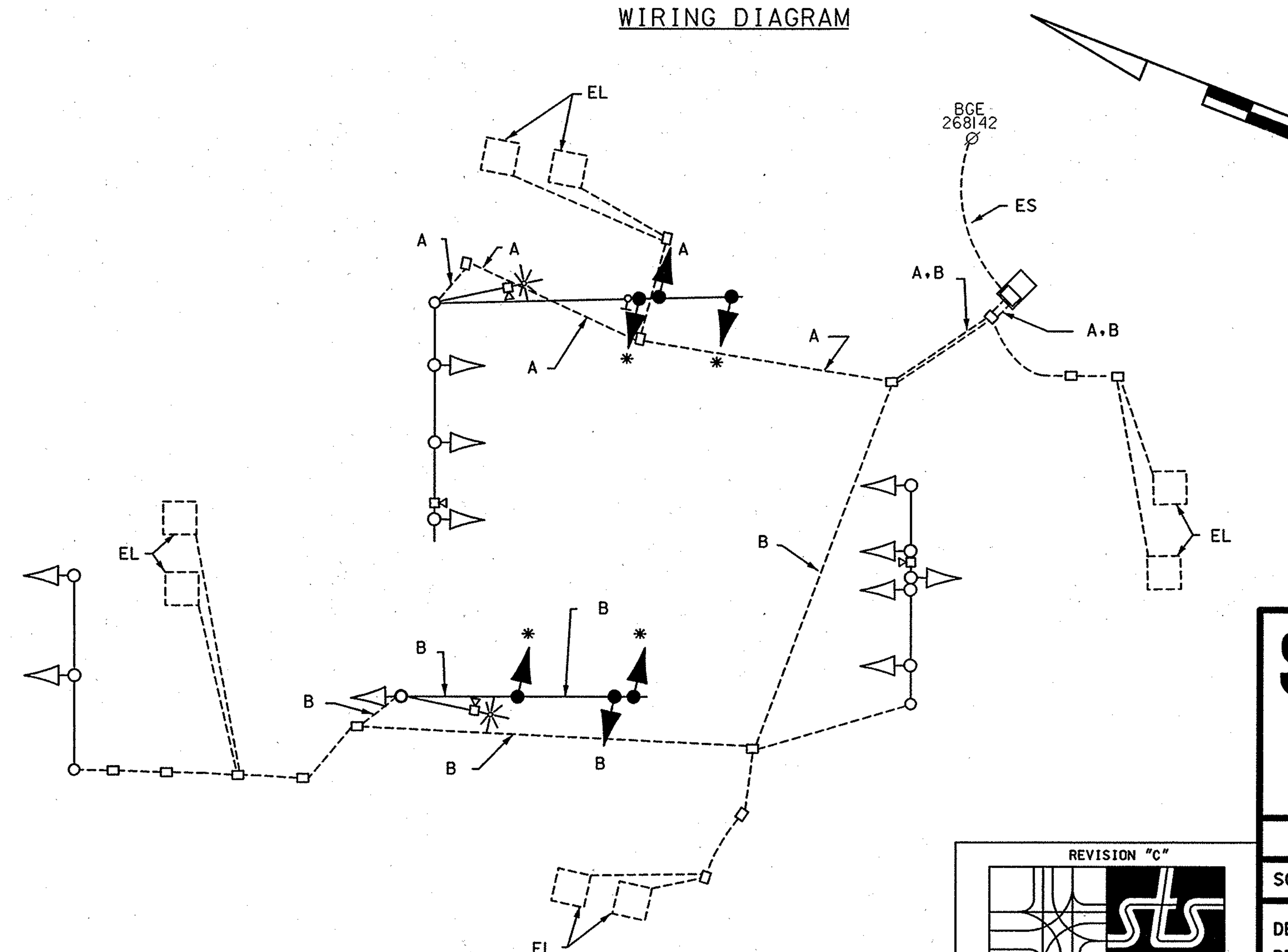
C. EQUIPMENT TO BE REMOVED

All removed signal materials are to become property of the contractor.

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	◄R- ◄Y- ◄G-	◄R- ◄Y- ◄G-	R Y G	R Y G	Y	Y	R Y G	◄R- ◄Y- ◄G-	◄R- ◄Y- ◄G-	R Y G	R Y G	R ◄Y- Y ◄G- G	R ◄Y- Y ◄G- G	R Y G	R ◄Y- Y ◄G- G	R ◄Y- Y ◄G- G	R Y G		
PHASE 1 & 5	◄G-	◄G-	R	R	FL/Y	FL/Y	R	◄G-	◄G-	R	R	R	R	R	R	R	R	DW	DW
CHANGES TO PHASES 1 & 6, 2 & 5 OR 2 & 6																			
PHASE 1 & 6	◄G-	◄G-	G	G	FL/Y	FL/Y	R	◄R-	◄R-	R	R	R	R	R	R	R	R	DW	DW
1 & 6 CHANGE	◄Y-	◄Y-	G	G	FL/Y	FL/Y	R	◄R-	◄R-	R	R	R	R	R	R	R	R	DW	DW
PHASE 2 & 5	◄R-	◄R-	R	R	-	-	G	◄G-	◄G-	G	G	R	R	R	R	R	R	DW	DW
2 & 5 CHANGE	◄R-	◄R-	R	R	-	-	G	◄Y-	◄Y-	G	G	R	R	R	R	R	R	DW	DW
PHASE 2 & 6	◄R-	◄R-	G	G	-	-	G	◄R-	◄R-	G	G	R	R	R	R	R	R	DW	DW
2 & 6 CHANGE	◄R-	◄R-	Y	Y	FL/Y	FL/Y	Y	◄R-	◄R-	Y	Y	R	R	R	R	R	R	DW	DW
PHASE 3 & 7	◄R-	◄R-	R	R	FL/Y	FL/Y	R	◄R-	◄R-	R	R	◄G-/R	◄G-/R	R	◄G-/R	◄G-/R	R	DW	DW
CHANGES TO PHASES 3 & 8, 4 & 7 OR 4 & 8																			
PHASE 3 & 8	◄R-	◄R-	R	R	FL/Y	FL/Y	R	◄R-	◄R-	R	R	R	R	R	◄G-/G	◄G-/G	G	DW	DW
3 & 8 CHANGE	◄R-	◄R-	R	R	FL/Y	FL/Y	R	◄R-	◄R-	R	R	R	R	R	◄Y-/G	◄Y-/G	G	DW	DW
PHASE 4 & 7	◄R-	◄R-	R	R	FL/Y	FL/Y	R	◄R-	◄R-	R	R	◄G-/G	◄G-/G	G	R	R	R	DW	DW
4 & 7 CHANGE	◄R-	◄R-	R	R	FL/Y	FL/Y	R	◄R-	◄R-	R	R	◄Y-/G	◄Y-/G	G	R	R	R	DW	DW
PHASE 4 & 8	◄R-	◄R-	R	R	FL/Y	FL/Y	R	◄R-	◄R-	R	R	G	G	G	G	G	G	DW	DW
4 & 8 CHANGE	◄R-	◄R-	R	R	FL/Y	FL/Y	R	◄R-	◄R-	R	R	Y	Y	Y	Y	Y	Y	DW	DW
PHASE 4 & 7 ALT	◄R-	◄R-	R	R	FL/Y	FL/Y	R	◄R-	◄R-	R	R	◄G-/G	◄G-/G	G	R	R	R	WK	WK
4 & 7 CHANGE ALT	◄R-	◄R-	R	R	FL/Y	FL/Y	R	◄R-	◄R-	R	R	◄Y-/G	◄Y-/G	G	R	R	R	WK	WK
PHASE 4 & 8 ALT	◄R-	◄R-	R	R	FL/Y	FL/Y	R	◄R-	◄R-	R	R	G	G	G	G	G	G	WK	WK
PED CLEARANCE /COUNTDOWN	◄R-	◄R-	R	R	FL/Y	FL/Y	R	◄R-	◄R-	R	R	G	G	G	G	G	G	FL/DW	FL/DW
4 & 8 ALT CHANGE	◄R-	◄R-	R	R	FL/Y	FL/Y	R	◄R-	◄R-	R	R	Y	Y	Y	Y	Y	Y	DW	DW
FLASHING OPERATION	FL/◄R-	FL/◄R-	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/◄R-	FL/◄R-	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK

WIRING DIAGRAM



WIRING KEY

A} B} 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G)

* - USE EXISTING CABLE

EL-LOOP WIRE (NO. 14 A.W.G.) EXISTING

ES-EXISTING UNDERGROUND SERVICE BY BGE

REVISION "C"

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

5067GIshop.dgn T-58

PLOTTED: $DATETIME$
FILE: $FILE$

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 702 AND OLD EASTERN AVENUE

ESSEX, MARYLAND

TRAFFIC SIGNAL PLAN

SCALE NONE DATE 9/13/06 CONTRACT NO. Signal Shop

DESIGNED BY	J.A.	COUNTY	BALTIMORE
DRAWN BY	R.C.	LOGMILE	03070202.01
CHECKED BY		TIMS NO.	H649
F.A.P. NO.		TOD NO.	

TS NO. 1220C | DRAWING NO. 2 OF 2 | SHEET NO. OF

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