PROJECT DESCRIPTION

I. GENERAL

This project involves the installation of LED signal heads and video detection cameras to an existing Traffic Control Signal at the intersection of MD 291and MD 313 in Kent County. MD 291 is assumed to run an east-west direction.

II. INTERSECTION OPERATION

1. The intersection is to operate in a NEMA four-phase, full-actuated mode, with the MD 291 approaches continuing to run concurrently. The MD 313 approaches shall also continue to run concurrently.

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 controller cabinet wiring will be performed by the S.H.A. Signal Shop Contact Mr. Ed Rodenhizer at (410) 787-7650 seventy-two hours in advance of intended work.

The contact persons are as follows:

Mr. Robert Kiel
Assistant District Engineer - Traffic
Phone: (410) 810-3240

Mr. Terry Wright
Assistant District Engineer - Maintenance
Phone: (410) 810-3250

Mr. Barry Clothier
Assistant District Engineer - Utility
Phone: (410) 810-3274

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

Mr. Ed Rodenhizer
Signal Shop
410-787-7652

EQUIPMENT LIST

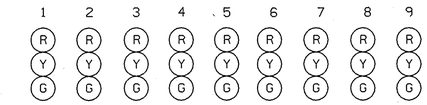
A. EQUIPMENT TO BE FURNISHED THE SHA

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
9086	[UPDATED] VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS	EA	1

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

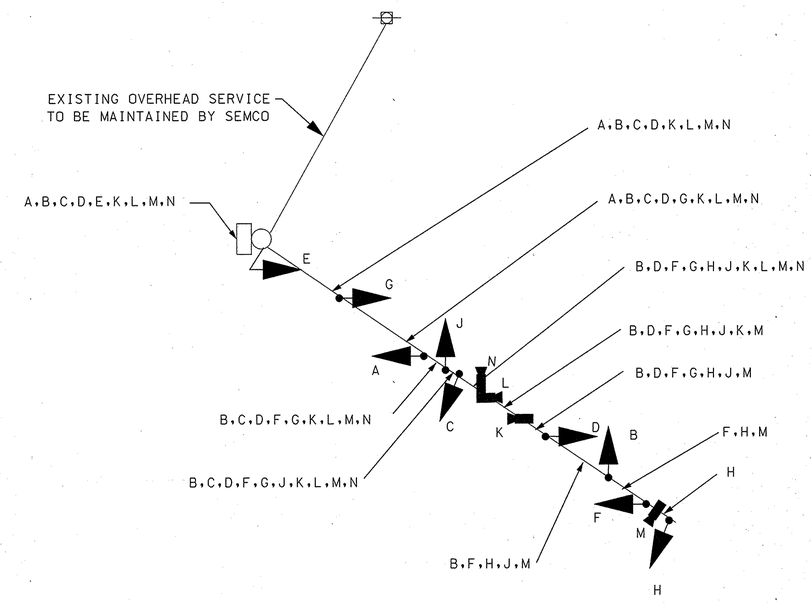
ITEM NO.	DESCRIPTION	UNITS	QUANTITY
1001	MAINTENANCE OF TRAFFIC	EA	1
8001	12 INCH LED SIGNAL HEAD SECTION R Y G	EA	27
8022	REMOVE AND DISPOSE MATERIAL AND EQUIPMENT PER ASSIGNMENT	EA	1
8026	VIDEO DETECTION CAMERA AND CABLE UP TO 500 FEET	EA	4
8055	ELECTRICAL CABLE - 5 CONDUCTOR NO 14 AWG	LF	110
8056	ELECTRICAL CABLE - 7 CONDUCTOR NO 14 AWG	LF	250

PHASE CHART



Phase 2 & 6	G	G	G	G	G	R	R	R	R	← →
2 & 6 Change	Y	Y	Y	Y	Y	R	R	R	R	
Phase 4 & 8	R	R	R	R	R	G	G	G	G	↓ ↑
4 & 8 Change	R	R	R	R	R	Y	Y	Y	Y	
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	↑ ← → ↓

WIRING DIAGRAM



KEY

A B C D E } 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

F G H J } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

K L M N } VIDEO DETECTION CABLE

TOD No.: AT909-06
SHA No.: KE351A52/B52
MD 291 @ MD 313

BAI
BRUDIS & ASSOCIATES, INC.
CONSULTING ENGINEERS
9220 RUMSEY ROAD SUITE 110
COLUMBIA, MARYLAND 21045
410-884-3607 410-884-3609(FAX)

SHA
STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 291 (Cypress St.) and
MD 313 (Sassafrass St.)

GENERAL INFORMATION SHEET

SCALE NONE DATE 8/23/06 CONTRACT NO. AT9095185

DESIGNED BY M. A. MEARS
DRAWN BY M. A. MEARS
CHECKED BY MMP
F.A.P. NO.
COUNTY KENT
LOGMILE 14029114.08
T.I.M.S. NO. H532
TOD NO.

DRAWING NO. TS4506A OF
SHEET NO. 2 OF 2

PLOTTED: $DATETIME$
FILE: $FILE$

BORDER REV:

BY: $USERNAME$