

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 213 / MD 313 (Main Street) and MD 213 / MD 290 (Cross Street) in Kent County. MD 213 / MD 313 (Cross Street) is assumed to run in an North-South direction.

II. INTERSECTION OPERATION

- The intersection is to operate in a NEMA four-phase, full-actuated mode, with MD 213 / MD 313 (Main Street) approaches continuing to run concurrently. MD 213 / MD 290 (Cross Street) approaches shall also run concurrently.

III. SPECIAL NOTES

- The Contractor shall be responsible for terminating all signal cables to the appropriate terminals and shall properly label each cable.
- 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. Richard L. Daff, Sr.  
Chief, Traffic Operations Division  
Phone: (410) 787-7630

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

Mr. Sonny Bailey  
Sign Shop  
410-787-7670

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

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

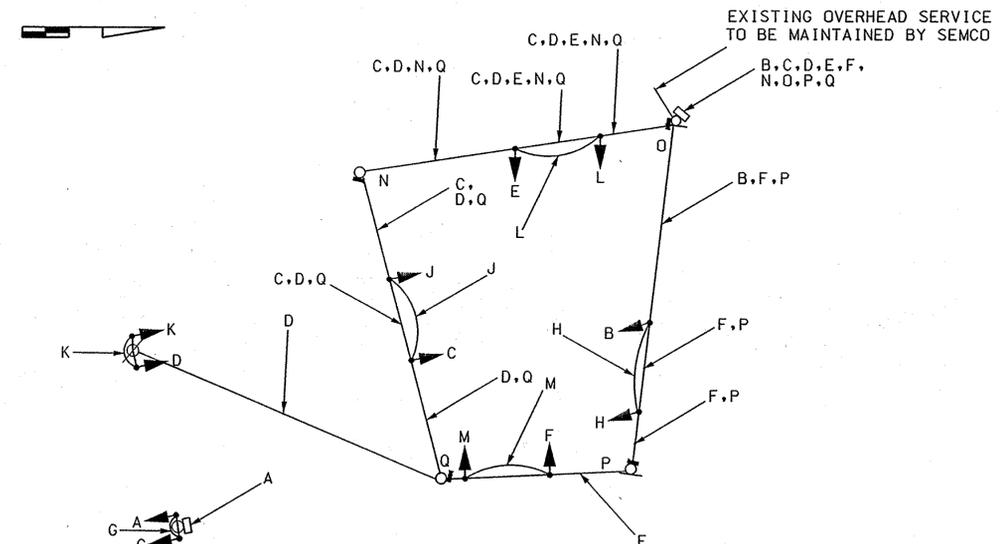
ITEM NO.	DESCRIPTION	UNITS	QUANTITY
1001	MAINTENANCE OF TRAFFIC	EA	1
8001	12 INCH LED SIGNAL HEAD SECTION R Y G	EA	28
8022	REMOVE AND DISPOSE MATERIAL AND EQUIPMENT PER ASSIGNMENT	EA	1
8026	VIDEO DETECTION CAMERA AND CABLE UP TO 500 FEET	EA	4
8055	ELECTRICAL CABLE - 5 CONDUCTOR NO 14 AWG	LF	120
8056	ELECTRICAL CABLE - 7 CONDUCTOR NO 14 AWG	LF	590

PHASE CHART

1	2	3	4	5	6	7	8	9	10	11	12
Y	Y	R	R	R	R	Y	Y	R	R	R	R
		Y	Y	Y	Y			Y	Y	Y	Y
		G	G	G	G			G	G	G	G

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

WIRING DIAGRAM



KEY

- A } 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- B } 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- C } 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- D } 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- E } 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- F } 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- G } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- H } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- I } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- J } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- K } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- L } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- M } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- N } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- O } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- P } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- Q } VIDEO DETECTION CABLE

BAI

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

TOD No.: AT909-07

SHA No.: KE351A51/B51  
MD 213 @ MD 290/MD 313

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

MD 213 / MD 313 (MAIN STREET) AND  
MD 213 / MD 290 (CROSS STREET)

GENERAL INFORMATION SHEET

SCALE NONE DATE 8/30/06 CONTRACT NO. AT9095185

DESIGNED BY M. A. MEARS COUNTY KENT  
DRAWN BY M. A. MEARS LOGMILE 14021315.75  
CHECKED BY [Signature] T.I.M.S. NO. H533  
F.A.P. NO. TOD NO.

DRAWING NO. TS1748B G1 OF SHEET NO. 2 OF 2

PLOTTED: #DATE#  
FILE: #FILE#