

**PROJECT DESCRIPTION**

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL LOCATED AT THE INTERSECTION OF MD 2 AND THE M.V.A. ENTRANCE. MD 2 (GOV. RITCHIE HIGHWAY) IS ASSUMED TO RUN IN THE NORTH/SOUTH DIRECTION IN ANNE ARUNDEL COUNTY.

THIS MODIFICATION INCLUDES THE FOLLOWING:  
 INSTALL AUDIBLE TACTILE PUSHBUTTON STATION,  
 PEDESTRIAN EDUCATION SIGNS, SIGNS AND PEDESTAL POLES  
 AT THE INTERSECTION OF MD 2 AND THE M.V.A. ENTRANCE

**INTERSECTION OPERATION**

THIS INTERSECTION CURRENTLY OPERATES IN A NEMA FIVE PHASE, FULLY ACTUATED MODE. THE THROUGH MOVEMENTS ALONG MD 2 OPERATE CONCURRENTLY WITH AN EXCLUSIVE LEFT TURN PHASE FOR THE SOUTHBOUND MOVEMENT OF MD 2. THE SIDE STREET WILL OPERATE AS A SIDE STREET SPLIT WITH A COUNTDOWN PEDESTRIAN SIGNALS AN A ALTERNATE AUDIBLE PEDESTRIAN MOVEMENTS WILL BE UPGRADED ON THE NORTH LEG OF THE INTERSECTION.

**EQUIPMENT LIST**

**A. EQUIPMENT TO BE SUPPLIED BY THE STATE OF MARYLAND.**

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
9571	13	SF	[UPDATED] SHEET ALUMINUM FOR POLE MOUNTED SIGN
	2	EA	R10-4(1) PEDSETRIAN EDUCATION SIGN TO READ "PUSH BUTTON TO CROSS RITCHIE HWY."
	1	EA	M6-2(L) 21"x15"
	1	EA	W11A-2 36"x36"
9570	28	SF	[UPDATED] SHEET ALUMINUM FOR GROUND MOUNTED SIGN
	1	EA	W11A-2 36"x36"
	2	EA	W11A-2 30"x30"
	2	EA	M6-2(R) 21"x15"
	1	EA	M6-2(L) 21"x15"
9086	1	EA	VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS

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

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
1001	1	EA	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
2001	3	CY	CLASS 2 EXCAVATION
5003	510	LF	12 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
5005	510	LF	REMOVAL OF EXISTIGN PERMANENT PAVEMENT LINE
6001	8	LF	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
6002	8	SF	4 INCH CONCRETE SIDEWALK
8001	2	EA	12 INCH - R, Y, G - LED SIGNAL HEAD SECTION
8003	1	EA	2 WIRE CENTRAL CONTROL UNIT
8007	3	EA	8 INCH LED SIGNAL - R, Y, G - HEAD SECTION
8010	2	EA	AUDIBLE / TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
8011	1	EA	BREAKAWAY PEDESTAL POLE - ANY SIZE
8017	1	EA	REMOVE AND DISPOSE OF EQUIPMENT PER ASSIGNMENT
8024	65	LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED
8026	25	LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8033	210	LF	NO 6 AWG STRANDED BARE COPPER GROUND WIRE
8036	5	LF	1 INCH LIQUID TIGHT FLEXIBLE NON METALLIC CONDUIT FOR DETECTOR SLEEVE
8045	28	SF	INSTALL GROUND MOUNTED SIGN
8046	13	SF	INSTALL OVERHEAD SIGN
8052	1	EA	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH
8057	80	LF	ELECTRICAL CABLE - 2 CONDUCTOR, ALUMINUM SHIELDED
8058	210	LF	ELECTRICAL CABLE - 2 CONDUCTOR, NO 14 AWG
8061	300	LF	ELECTRICAL CABLE - 7 CONDUCTOR NO 14 AWG
8062	400	LF	LOOP WIRE ENCASED IN FLEXIBLE TUBING NO 14 AWG
8063	110	LF	SAW CUT FOR SIGNAL - LOOP DETECTOR
8047	1	EA	VIDEO DETECTION CAMERA AND CABLE UP TO 500 FEET

**C. SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILLIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.**

**PROJECT CONTACTS**

THE CONTACT PERSONS ARE AS FOLLOWS:

MRS. KIMBERLY TRAN  
 DISTRICT ENGINEER-TRAFFIC  
 PHONE: 410-841-1003

MR. JOHN S. MAYS  
 DISTRICT UTILITY ENGINEER  
 PHONE: 410-841-1005

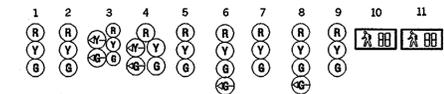
MR. ANDRE FUTREL  
 ASSISTANT DISTRICT ENGINEER-MAINTENANCE  
 PHONE: 410-841-1002

MR. RICHARD L. DAFF, SR.  
 CHIEF, TRAFFIC OPERATION DIVISION  
 PHONE: 410-787-7630

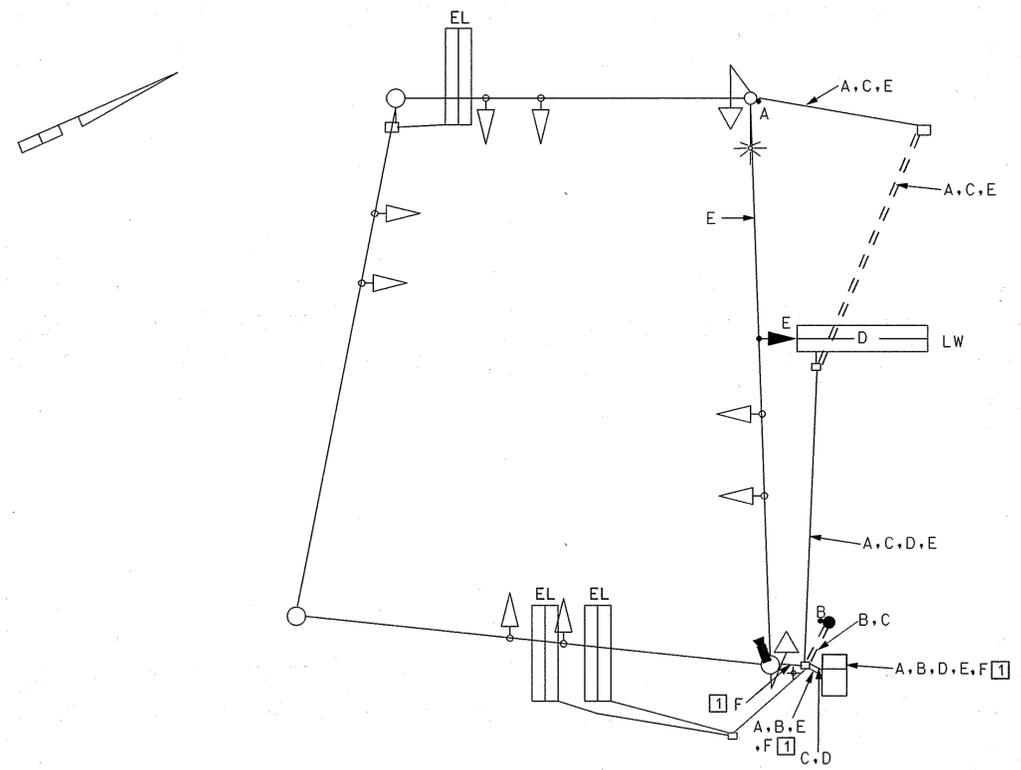
MR. ED RODENHIZER  
 CHIEF, SIGNAL OPERATION SECTION  
 PHONE: 410-787-7652

MR. ROBERT SNYDER  
 ASST. CHIEF,  
 TRAFFIC OPERATION DIVISION  
 PHONE: 410-787-7631

**PHASE CHART**



PHASE	1	2	3	4	5	6	7	8	9	10	11
PHASE 2 AND 5	R	R	G	G	G	R	R	R	R	DW	DW
5 CHANGE	R	R	G	G	G	R	R	R	R	DW	DW
PHASE 2 AND 6	G	G	G	G	G	R	R	R	R	DW	DW
2 AND 6 CHANGE	Y	Y	Y	Y	Y	R	R	R	R	DW	DW
PHASE 3	R	R	R	R	R	G	G	R	R	DW	DW
3 CHANGE	R	R	R	R	R	Y	Y	R	R	DW	DW
PHASE 4	R	R	R	R	R	R	R	G	G	DW	DW
4 CHANGE	R	R	R	R	R	R	R	Y	Y	DW	DW
PHASE 4 ALT	R	R	R	R	R	R	R	G	G	WK	WK
PED COUNTDOWN CLEAR.	R	R	R	R	R	R	R	G	G	FLDW	FLDW
4 ALT CHANGE	R	R	R	R	R	R	R	Y	Y	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK



**KEY**

- A, B } 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- C } 1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE
- D } ELECTRICAL CABLE - 2 CONDUCTOR, ALUMINUM SHIELDED
- E } 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- 1 F } VIDEO DETECTION CABLE
- LW LOOP WIRE ENCASED IN FLEXIBLE TUBING NO 14 AWG
- EL EXISTING LOOP WIRE
- + GROUND ROD

1 TEDD REDLINE #1 JANUARY 2008

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

**MD 2 AT THE ENTRANCE TO M.V.A.**

**GENERAL INFORMATION SHEET**

SCALE <u>N.T.S.</u>	DATE <u>06/11/07</u>	CONTRACT NO. <u>AT9365185</u>
DESIGNED BY <u>MWS</u>	COUNTY <u>ANNE ARUNDEL</u>	
DRAWN BY <u>MWS</u>	LOGMILE <u>0200239.10</u>	
CHECKED BY <u>RJM</u>	T.I.M.S. NO. <u>1043</u>	
F.A.P. NO. _____	TOD NO. _____	
DRAWING NO. <u>TS-530D</u>	2 OF 2	SHEET NO. <u>2</u>

**BAI**

BRUDIS & ASSOCIATES, INC.  
 CONSULTING ENGINEERS  
 9220 RUMSEY ROAD SUITE 110  
 COLUMBIA, MARYLAND 21045

BY: WSTROUD