

**PROJECT DESCRIPTION**

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 5 AND MD 6 IN ST. MARY'S COUNTY. THE WORK IS NECESSITATED BY THE CONSTRUCTION OF A FREE RIGHT ON THE EASTBOUND MD 6 APPROACH. MD 5 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

**INTERSECTION OPERATION**

THE INTERSECTION CURRENTLY OPERATES IN A NEMA FOUR-PHASE, FULLY-ACTUATED MODE WITH MD 5 APPROACHES RUNNING CONCURRENTLY AND A PRE-EMPTION PHASE FOR NORTHBOUND MD 5. MD 6 APPROACHES ALSO RUNNING CONCURRENTLY. THIS WILL NOT CHANGE.

**CONTROLLER REQUIREMENTS**

THE EXISTING EIGHT-PHASE, FULLY-ACTUATED CONTROLLER HOUSED IN A BASE MOUNTED CABINET WILL BE USED.

**EQUIPMENT LIST "A"**

A. EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

**EQUIPMENT LIST "B"**

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

QUANTITY	DESCRIPTION
LS	MAINTENANCE OF TRAFFIC
1 EA	27 FT. MAST ARM POLE WITH TWIN 50 FT./60 FT. MAST ARMS
12 EA	12 IN. L.E.D. SIGNAL HEAD SECTION
2 EA	ELECTRICAL HANDHOLE
130 LF	3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT- BORED
20 LF	4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
1 EA	SHIELD ASSEMBLY (36" X 75") - POLE MOUNT
2 EA	SHIELD ASSEMBLY (24" X 51") - GROUND MOUNT
1 EA	D-3(I) SIGN (VAR. X 32") - MAST ARM MOUNT
35 LF	ELECTRICAL CABLE 5 - CONDUCTOR (NO. 14 A.W.G.)
630 LF	ELECTRICAL CABLE 7 - CONDUCTOR (NO. 14 A.W.G.)
270 LF	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
LS	REMOVE AND DISPOSE MATERIAL AND EQUIPMENT
90 LF	5 IN. HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
230 LF	10 IN. HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
15 LF	24 IN. HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
150 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH
2 EA	REMOVAL OF EXISTING PERMANENT PAVEMENT MARKING ARROW
1 EA	REMOVAL OF EXISTING PERMANENT PAVEMENT MARKING "ONLY"
655 LF	DISCONNECT, PULL BACK AND REROUTE CABLE
1 EA	GROUND ROD
70 LF	WOOD SIGN SUPPORTS 4 IN. X 4 IN.
3 CY	CONCRETE FOUNDATION FOR SIGNAL
1 EA	CUT, CLEAN, GALVANIZE AND GAP TRAFFIC SIGNAL STRUCTURE
1 EA	RELOCATE EXISTING VIDEO DETECTION CAMERA
1 EA	15 FT. LIGHTING ARM WITH 250 WATT HPSV LUMINAIRE
280 LF	ELECTRICAL CABLE 2 - CONDUCTOR (NO. 12 A.W.G.) TRAY CABLE

**EQUIPMENT LIST "C"**

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

ALL SIGNAL EQUIPMENT TO BE REMOVED AND NOT RETURNED TO THE SHA SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

**CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:**

MRS. KIM TRAN  
ASSISTANT DISTRICT ENGINEER - TRAFFIC  
(410) 841-1019

MR. JOHN MAYS  
ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
(410) 841-1013

MR. MIKE HUBER  
UTILITY ENGINEER  
(410) 841-1039

**CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY**

MR. RICHARD DAFF, SR.  
CHIEF, TRAFFIC OPERATIONS  
(410) 787-7630

MR. EUGENE BAILEY  
TEAM LEADER SIGN OPERATIONS  
(410) 787-7676

MR. ROBERT SNYDER  
ASSISTANT DIVISION CHIEF,  
TRAFFIC OPERATIONS  
(410) 787-7631

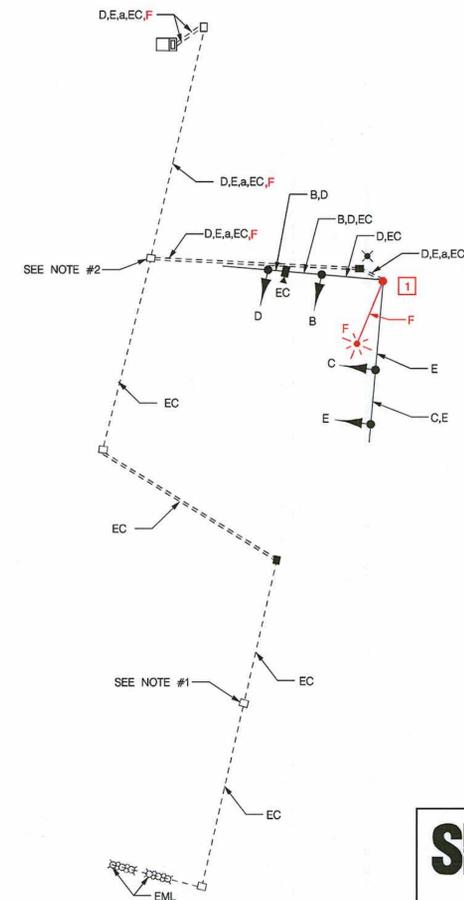
MR. MICHAEL STOCKER  
SUPPLY OFFICE  
SIGNAL SHOP WAREHOUSE  
(410) 787-7668

MR. ED RODENHIZER  
CHIEF - SIGNAL OPERATIONS SECTION  
(410) 787-7652

**PHASE CHART**

	1	2	3	4	5	6	7	8	9	10	11	12
PHASE 2 & 6	G	G	G	G	R	R	R	R	R	R	R	R
2 & 6 CHANGE	Y	Y	Y	Y	R	R	R	R	R	R	R	R
PHASE 4 & 8	R	R	R	R	G	G	G	G	G	G	G	G
4 & 8 CHANGE	R	R	R	R	Y	Y	Y	Y	Y	Y	Y	Y
PRE-EMPTION	G	G	R	R	R	R	R	R	R	R	R	R
CHANGE	Y	Y	R	R	R	R	R	R	R	R	R	R
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLR							

**WIRING DIAGRAM**



**WIRING KEY**

- B-C 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- D-E 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- F 2-CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.) TRAY CABLE
- a STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- EML EXISTING MICRO-LOOP PROBE
- EC EXISTING CABLE
- X GROUND ROD

**WIRING NOTE**

1. DISCONNECT THE EXISTING MICRO-LOOP DETECTION CABLE FROM THE EXISTING CONTROLLER AT MD 5 AT MD 6 AND PULL IT BACK TO THIS POINT. REINSTALL THIS CABLE THROUGH THE NEW CONDUIT & HANDHOLE TO THE EXISTING BASE MOUNTED CABINET.
2. DISCONNECT THE EXISTING VIDEO DETECTION CAMERA CABLE FROM THE CAMERA TO BE RELOCATED AND PULL BACK TO THIS HANDLE. REWIRE THE VIDEO DETECTION CABLE THROUGH NEW CONDUIT TO LOCATION OF RELOCATED VIDEO DETECTION CAMERA.

SHA TRACKING NO.: 08-AP-SM-024-XX

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
**MD 5 AND MD 6**  
CHARLOTTE HALL, MARYLAND

**GENERAL INFORMATION PLAN**

SCALE	NONE	DATE	7-11-12	CONTRACT NO.	BW-996M82
DESIGNED BY	T.ZAYDEL	COUNTY	ST. MARY'S		
DRAWN BY	J.K. SCHMID	LOGMILE	18000545.49		
CHECKED BY	K. SCHMID	T.I.M.S. NO.	L-279		
F.A.P. NO.	NA	TOD NO.			
DRAWING NO.	TS - 2572 G GI	SHEET NO.	2	OF	2

**TRAFFIC CONCEPTS, INC.**  
325 Gambrills Road  
Suite B  
Gambrills, MD 21054  
(410) 923-7101  
FAX: (410) 923-6473  
EMAIL: TRAFFIC@TRAFFIC-CONCEPTS.COM

**RED LINE REVISION NO. 1**  
October 22, 2012  
Install Street Lighting Arm  
TEDD Approval: *[Signature]* 10-24-12