Project Description

This project involves the installation of a new Traffic Control Signal for vehicles turning right from SB MD 246 onto NB MD 5 and minor geometric modifications in St. Mary's County.

CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS

MR. PAUL ARMSTRONG
DISTRICT ENGINEER
410-841-1001

MR. LARRY ELLIOTT
ASSISTANT DISTRICT ENGINEER - TRAFFIC
410-841-1003

MR. ERNIE HODSHON
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
410-841-1004

MR. CHARLES GEORGE
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
410-841-1002

MR. JOHN MAYS
ASSISTANT DISTRICT ENGINEER - UTILITIES
410-841-1005

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

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

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS
410-787-7630

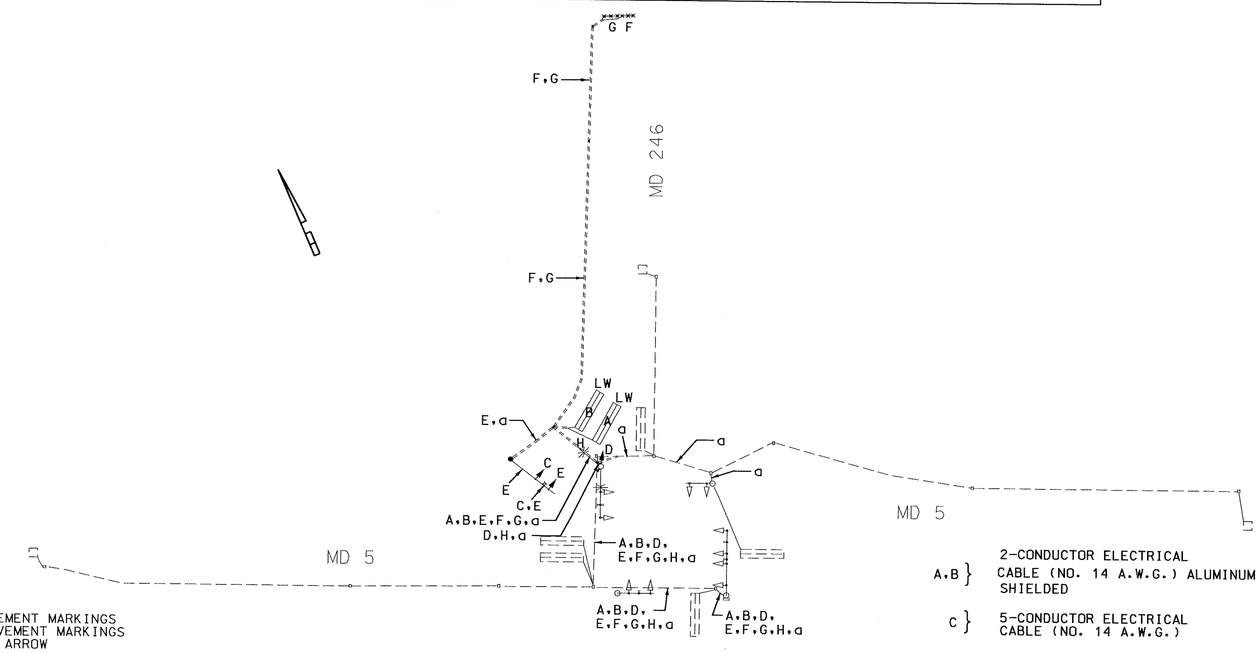
MR. ED RODENHIZER
TEAM LEADER SIGNAL OPERATIONS
410-787-7650

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

MR. DAVE SCHWARTZ
SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE)
410-787-7668

Phase Chart

	1	2	3	4	5	6	7	8	9	10	11	12	13
	R Y G	R Y G	3R 3Y 3G	3R 3Y 3G	R Y G	R Y G	R Y G 4G	R Y G	R Y G	R Y G	RE YE GE	RE YE GE	RE YE GE
Phase 1 & 6	R	R	G	G	G	G	R	R	R	R	G	G	G
1 Change	R	R	Y	Y	G	G	R	R	R	R	Y	Y	Y
Phase 2	G	G	R	R	G	G	R	R	R	R	R	R	R
2 & 6 Change	Y	Y	R	R	Y	Y	R	R	R	R	R	R	R
Phase 3	R	R	R	R	R	R	G	G	R	R	R	R	R
3 Change	R	R	R	R	R	R	Y	Y	R	R	R	R	R
Phase 4	R	R	R	R	R	R	R	R	G	G	G	G	G
4 Change	R	R	R	R	R	R	R	R	Y	Y	G	G	G
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R



A,B	2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) ALUMINUM SHIELDED
C	5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
D-E	7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
F,G	MICROLOOP PROBE CABLE
H	2-CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.) TYPE TC
a	BARE COPPER WIRE (NO. 6 A.W.G.)
LW	LOOP WIRE (NO. 14 A.W.G.)

Equipment List

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

ITEM NO.	QUANTITY		DESCRIPTION		
9089	20	SF	FLAT SHEET ALUM SIGN-YELLOW, ORANGE, & SILVER (SF)		
			R4-7 "KEEP RIGHT" SYMBOL 24"X30"	GROUND MNT.	1 EA.
			OM1-1 "OBJECT MARKER" 18"X18"	GROUND MNT.	1 EA.
9090	6	SF	FLAT SHEET ALUM. SIGN BLUE OR GREEN		
			D3-2 "Point Lookout Road" 72" X 12"	MAST ARM MNT.	1 EA.
			R3-4 "NO U-TURN 30"X30"	GROUND MNT.	1 EA
			R10-11A "NO TURN ON RED 30"x30"	GROUND MNT.	1 EA

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

ITEM NO.	QUANTITY		DESCRIPTION
1001	1	EA	MAINTENANCE OF TRAFFIC
2001	1	CY	TEST PIT EXCAVATION
2004	23	CY	CLASS 2 EXCAVATION
5002	95	LF	FURNISH AND INSTALL 5 INCH WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
5004	50	LF	FURNISH AND INSTALL 24 INCH WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
5006	3	EA	FURNISH AND INSTALL HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROW
5007	1460	LF	REMOVE EXISTING PAVEMENT MARKING - ANY WIDTH
NEG.	1000	LF	FURNISH AND INSTALL 10 INCH WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
NEG.	55	SY	FURNISH AND INSTALL 6 INCH BASE COURSE USING GRADED AGGREGATE
NEG.	6	TON	FURNISH AND INSTALL HOT MIX ASPHALT SURFACE SC
NEG.	19	TON	FURNISH AND INSTALL HOT MIX ASPHALT BASE BF
6002	82	LF	FURNISH AND INSTALL STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
8001	3	CY	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
8017	2	EA	FURNISH AND INSTALL MICROLOOP PROBE SET WITH 1000 FOOT LEAD-IN
8021	250	LF	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)
8022	12	LF	LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR LOOP DETECTOR LEAD-IN
8024	343	LF	FURNISH AND INSTALL 2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8029	39	LF	FURNISH AND INSTALL 3 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED
8033	4	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8034	5	EA	FURNISH AND INSTALL GROUND ROD 3/4 INCH DIAMETER X 10 FOOT LENGTH
8040	605	LF	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
8041	850	LF	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)
8044	20	LF	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO 14 AWG)
8045	650	LF	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
8046	265	LF	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG) TYPE TC
8048	60	LF	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8050	23	LF	FURNISH AND INSTALL WOOD SIGN SUPPORTS 4"X4"
8052	20	SF	INSTALL GROUND MOUNTED SIGN
8053	6	SF	INSTALL OVERHEAD SIGN
8055	1	EA	FURNISH AND INSTALL 250 WATT HPS LUMINAIRE WITH PHOTO CELL
8056	1	EA	FURNISH AND INSTALL 15 FOOT LIGHTING BRACKET ARM FOR TRAFFIC SIGNAL STRUCTURE
8076	1	EA	FURNISH AND INSTALL MAST ARM POLE AND 38 FOOT MAST ARM
8084	9	EA	FURNISH AND INSTALL 12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
NEG.	10	SF	REMOVE SIGN AND SUPPORT.
NEG.	595	LF	REMOVE AND REINSTALL CABLES
NEG.	1	EA.	FURNISH AND INSTALL THREADED TERMINAL ADAPTER

CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS - PLANNERS
32 WEST ROAD
TOWSON, MARYLAND 21204

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION
MD 5 AT MD 246
GREAT MILLS, MARYLAND

DRAWN BY:	S.P.P.	F.A.P. NO.	AC-STPG-000S(683)E	TS NO. 2071-(1)	SHEET NO.
CHECKED BY:	T.H.	S.H.A. NO.	5M949 HS9 1859		
SCALE:	Not to Scale	COUNTY:	ST MARY'S	T.I.M.S. NO.	02 OF 02
DATE:	8/00	LOG MILE:	18000517.20		

o:\transdwg\97006\37\md5md24602.dgn 13 NOV 2000