PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES INSTALLATION OF A NEW TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 237 (CHANCELLORS RUN ROAD) AND PEGG ROAD IN ST. MARYS COUNTY, MARYLAND. MD 237 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA SIX-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE MD 237 APPROACHES OPERATING CONCURRENTLY AND THE PEGG ROAD APPROACHES OPERATING CONCURRENTLY.

EXCLUSIVE/PERMISSIVE LEFT-TURN PHASING IS PROVIDED FOR THE NORTHBOUND AND SOUTHBOUND MD 237 APPROACHES.

AN ALTERNATE PEDESTRIAN PHASE IS PROVIDED ACROSS THE NORTH LEG OF MD 237. PEDESTRIAN INDICATIONS ARE PROPOSED ACROSS THE EAST LEG OF PEGG ROAD.

EMERGENCY PRE-EMPTION PHASES WILL BE PROVIDED FOR THE NORTHBOUND AND SOUTHBOUND MD 237 APPROACHES.

TYPICAL MESSAGES FOR ACCESSIBLE PED SIGNALS

NORTH LEG - MD 237 (CHANCELLORS RUN ROAD) AND PEGG ROAD

WAIT: "WAIT TO CROSS CHANCELLORS RUN AT PEGG."*

WALK: RAPID TICK

EAST LEG - PEGG ROAD AND MD 237 (CHANCELLORS RUN ROAD)

WAIT: "WAIT TO CROSS PEGG AT CHANCELLORS RUN."*

WALK: RAPID TICK

* MESSAGE USED IF DISTANCE FROM NEAREST PUSHBUTTON FOR PERPIDICULAR CROSSING IS < 10'
** MESSAGE USED IF CROSSWALK DIVERGES FROM OR CONVERGES WITH PARALLEL TRAFFIC

NOTE: MESSAGES FOR INTERSECTION CONFIGURATIONS, VARYING FROM THE ABOVE ARE TO BE APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.

CONTROLLER REQUIREMENTS

INSTALL A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH VIDEO INTERFACE EQUIPMENT (1-4) CAMERAS, ONE (1) FOUR-CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIERS WITH SYSTEM PACKAGE AND ASSOCIATED HARNESSES HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET.

PHONE DROP

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER THE NEAREST STREET ADDRESS, ZIP CODE, AND PHONE NUMBER.

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT. ADDITIONAL TRAFFIC CONTROL STANDARDS MAYBE USED AS DIRECTED BY THE ENGINEER.

STANDARD NO. MD-104.02-01 (SHOULDER WORK)

STANDARD NO. MD-104.02-03 (LANE SHIFT)

STANDARD NO. MD-104.02-14 (INTERSECTION FLAGGING OPERATION)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MS. KIMBERLY TRAN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 841-1019

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

MR. MIKE HUBER
DISTRICT UTILITY ENGINEER
PHONE: (301) 624-8115

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

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801 South Caroline Street
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410-235-3450

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BY: sbloss

EQUIPMENT LIST "A"

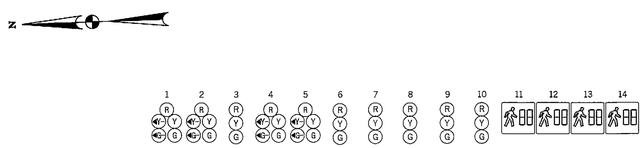
A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
9044	1 EACH	EIGHT-PHASE, FULL-TRAFFIC-ACTUATED CONTROLLER WITH TELEMETRY INTERFACE PANEL AND HARNESS HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET
9086	1 EACH	VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS
9571	88 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF :
		- 3 EACH — D-3(1) SIGN (VARIABLE x 16 IN.) DUAL FACED - MAST ARM MOUNT
		- 1 EACH — ASSOCIATED SHIELD ASSEMBLY "NORTH, MD 237, RIGHT ARROW" (30 IN. x 51 IN.) - GROUND MOUNT
		- 1 EACH — ASSOCIATED SHIELD ASSEMBLY "SOUTH, MD 237, LEFT ARROW" (48 IN. x 75 IN.) - POLE MOUNT
		- 2 EACH — R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS CHANCELLORS RUN ROAD"
		- 2 EACH — R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS PEGG ROAD"
		- 2 EACH — W3-3 SIGN (36 IN. x 36 IN.) WITH "NEW" PANEL (24 IN. x 24 IN.) AND FLAG - GROUND MOUNT

EQUIPMENT LIST "C"

NO EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12	13	14
PHASE 1 AND 5	R ←G–	R ←G–	R	R ←G–	R ←G–	R	R	R	R	R	DW	DW	DW	DW
1 AND 5 CHANGE	PHASE 1 + 5 MAY CHANGE TO PHASE 1 + 6, PHASE 2 + 5 OR PHASE 2 + 6													
PHASE 1 + 6	G ←G–	G ←G–	G	R	R	R	R	R	R	R	DW	DW	DW	DW
1 + 6 CHANGE	G ←Y–	G ←Y–	G	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 + 5	R	R	R	G ←G–	G ←G–	G	R	R	R	R	DW	DW	DW	DW
2 + 5 CHANGE	R	R	R	G ←Y–	G ←Y–	G	R	R	R	R	DW	DW	DW	DW
PHASE 2 + 6	G	G	G	G	G	G	R	R	R	R	WK	WK	DW	DW
PED CLEARANCE	G	G	G	G	G	G	R	R	R	R	FL/DW	FL/DW	DW	DW
2 + 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	DW	DW	DW	DW
PHASE 4 + 8	R	R	R	R	R	R	G	G	G	G	DW	DW	DW	DW
4 + 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW
PHASE 4 + 8 ALT	R	R	R	R	R	R	G	G	G	G	DW	DW	WK	WK
PED CLEARANCE	R	R	R	R	R	R	G	G	G	G	DW	DW	FL/DW	FL/DW
4 + 8 ALT CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW
EMERGENCY PRE-EMPTION 1 & 2	G	G	G	G	G	G	R	R	R	R	DW	DW	DW	DW
	Y	Y	Y	Y	Y	Y	R	R	R	R	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK

EQUIPMENT LIST "B"

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

CATEGORY CODE	QUANTITY	DESCRIPTION
203030	7 C.Y.	TEST PIT EXCAVATION
585621	315 L.F.	12 INCH HEAT APPLIED WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS LINE
585625	130 L.F.	24 INCH HEAT APPLIED WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE
801004	17 C.Y.	CONCRETE FOR SIGNAL FOUNDATION
801106	50 L.F.	WOOD SIGN SUPPORTS 4" x 6"
802501	460 L.F.	NO. 6 A.W.G. STRANDED BARE COPPER GROUND WIRE
805115	205 L.F.	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED
805118	205 L.F.	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED
805125	95 L.F.	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
805135	685 L.F.	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
805140	190 L.F.	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
807202	1 EACH	EMBEDDED METERED SERVICE PEDESTAL
810010	90 L.F.	ELECTRICAL CABLE 1-CONDUCTOR NO. 4 A.W.G. - THHN/THWN
810601	4 EACH	NONINVASIVE DETECTOR, 1000 FT. LEAD-IN
811001	11 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
813010	2 EACH	250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE
813014	37 S.F.	INSTALL GROUND MOUNTED SIGN
813015	62 S.F.	INSTALL OVERHEAD SIGN
816001	4 EACH	VIDEO DETECTION CAMERA
816005	2 EACH	CONTROL CABLE, 250 FOOT VIDEO DETECTION CAMERA TO CONTROLLER
816010	2 EACH	CONTROL CABLE, 500 FOOT VIDEO DETECTION CAMERA TO CONTROLLER
816201	1 EACH	DISCRIMINATOR MODULE, 4 CHANNEL, NO. 764
816215	2 EACH	OPTICOM NO. 721 DETECTOR EYE
818004	2 EACH	10 FOOT BREAKAWAY PEDESTAL POLE
818021	1 EACH	STEEL POLE WITH TWIN 50 FOOT MAST ARMS
818036	1 EACH	STEEL POLE WITH A 50 FOOT MAST ARM
818041	1 EACH	STEEL POLE WITH A 60 FOOT MAST ARM
837001	7 EACH	GROUND ROD - 3/4 INCH DIAMETER x 10 FOOT LENGTH
860272	38 EACH	12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
860292	2 EACH	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
861107	435 L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.)
861105	560 L.F.	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)
861108	1450 L.F.	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.)
861116	400 L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 A.W.G.)
866103	2 EACH	15 FOOT LIGHTING ARM ON SIGNAL STRUCTURE
871202	1 EACH	INSTALL CONTROLLER AND CABINET - BASE MOUNT
800000	4 EACH	16" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD
800000	4 EACH	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON BASE STATION
800000	1 EACH	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON BASE UNIT
800000	430 L.F.	FURNISH AND INSTALL 4 CONDUCTOR OPTICOM CABLE
800000	1 EACH	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT

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(410) 235-3450

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

MD 237 AND PEGG ROAD

GENERAL INFORMATION SHEET

SCALE NONE ADVERTISED DATE DECEMBER 10, 2008 CONTRACT NO. SM7575171

DESIGNED BY S. BLOSS
DRAWN BY S. BLOSS
CHECKED BY N. LEARY 12/9/08
F.A.P. NO. ACSTP-HP-2442(001)E

COUNTY ST. MARYS
LOGMILE 18023700.24
TIMS NO. H783
TOD NO.

TS NO. 4693 | DRAWING TSP-13 OF 16 | SHEET NO. 14 OF 36

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