

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE RECONSTRUCTION OF AN EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 22 (ABERDEEN THRUWAY) AND MT. ROYAL AVENUE AND THE INSTALLATION OF AN INTERCONNECT SYSTEM ALONG MD 22 (ABERDEEN THRUWAY) FROM I-95 RAMP TO ROGERS STREET/U.S. 40 RAMP IN HARFORD COUNTY, MARYLAND. MD 22 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE EXISTING PHASING WILL REMAIN THE SAME AT EACH INTERSECTION.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET AND CONTROLLER AT MD 22 AND THE I-95 S.I. OFF RAMP, MD 22 AND THE I-95 N.B. OFF RAMP, MD 22 AND BEARDS HILL ROAD, MD 22 AND MIDDLETON ROAD, MD 22 AND MD 462 (PARADISE ROAD), MD 22 AND MT. ROYAL AVENUE AND MD 22 AND ROGERS STREET/U.S. 40 RAMP WILL BE USED.

MAINTENANCE OF TRAFFIC

THE FOLLOWING MINIMUM TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT.

STANDARD NO. MD-104.04-01 (SHOULDER WORK)	STANDARD NO. MD-104.04-13 (LEFT TURN BAY CLOSURE)
STANDARD NO. MD-104.04-03 (LEFT LANE CLOSURE)	STANDARD NO. MD-104.04-15 (INTERSECTION LEFT LANE, TURN BAY)
STANDARD NO. MD-104.04-05 (RIGHT LANE CLOSURE)	

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. RANDALL SCOTT ASSISTANT DISTRICT ENGINEER - TRAFFIC PHONE: (410) 321-2781/2785	MR. MIKE PASQUARIELLI ASST. DISTRICT UTILITY ENGINEER PHONE: (410) 321-284
MR. STEVE MARCISZEWSKI ASSISTANT DISTRICT ENGINEER - MAINTENANCE PHONE: (410) 321-2761	MR. RICHARD L. DAFF, SR. CHIEF, TRAFFIC OPERATIONS DIVISION PHONE: (410) 787-7630

WIRING DIAGRAM

WIRING KEY

A B C D E F 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)	P Q 2-CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.)	Z STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
G H J K L M 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)	R S T U VIDEO CAMERA DETECTION LEAD-IN CABLE	AA BB CC 1-CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.)
N O 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)	V W X Y MICROLOOP PROBE LEAD-IN	ML MICROLOOP PROBE SET
		PE PROPOSED UNDERGROUND ELECTRICAL SERVICE
		+ 3/4 IN. X 10 FT. GROUND ROD

<u>EQUIPMENT LIST "A"</u>		
A. EQUIPMENT TO BE SUPPLIED BY THE SHA		
<u>ITEM NO.</u>	<u>QUANTITY</u>	<u>DESCRIPTION</u>
9000	6 EACH	QUICK CONNECT BLOCK AND HARNESS FOR TELEMETRY INTERFACE PANEL
9086	5 EACH	VIDEO INTERFACE EQUIPMENT: 1-4 CAMERAS
9571	102 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF : - 4 EACH D-3(1) SIGN (VARIABLE x 16 IN.) DUAL FACED - MAST ARM MOUNT - 1 EACH ASSOCIATED SHIELD ASSEMBLY "EAST, MD 22, RIGHT ARROW" (24 IN. x 51 IN.) - POLE MOUNT - 1 EACH ASSOCIATED SHIELD ASSEMBLY "WEST, MD 22, LEFT ARROW" (36 IN. x 75 IN.) - POLE MOUNT - 1 EACH ASSOCIATED SHIELD ASSEMBLY "EAST, MD 22, RIGHT ARROW" (24 IN. x 51 IN.) - POLE MOUNT - 1 EACH ASSOCIATED SHIELD ASSEMBLY "WEST, MD 22, LEFT ARROW" (36 IN. x 75 IN.) - POLE MOUNT - 2 EACH R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS MT. ROYAL AVENUE"

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR

EQUIPMENT LIST "B"		
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR		
ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
2002	2 C.Y.	TEST PIT EXCAVATION
5003	135 L.F.	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH
5006	135 L.F.	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
8001	10 C.Y.	CONCRETE FOR SIGNAL FOUNDATION
8003	20 EACH	12 INCH RED OR GREEN LED SIGNAL HEAD SECTION
8004	11 EACH	12 INCH YELLOW LED SIGNAL HEAD SECTION
8005	1 EACH	2-WIRE CENTRAL CONTROL UNIT
8009	2 EACH	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON
8011	2 EACH	CONDUIT BEND IN EXISTING FOUNDATION
8013	2 EACH	CONTROL CABLE, 200 FT. VIDEO DETECTION CAMERA TO CONTROLLER
8014	2 EACH	CONTROL CABLE, 300 FT. VIDEO DETECTION CAMERA TO CONTROLLER
8019	2 EACH	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL SECTION
8026	1 EACH	PED POLE (ANY SIZE)
8027	1 EACH	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT AS PER ASSIGNMENT
8039	14 L.F.	WOOD SIGN SUPPORTS 4 INCH x 4 INCH
8041	550 L.F.	NO. 6 A.W.G. STRANDED BARE COPPER GROUND WIRE
8048	550 L.F.	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED
8050	60 L.F.	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8051	7000 L.F.	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8052	235 L.F.	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8055	240 L.F.	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED
8057	1 EACH	EMBEDDED METERED SERVICE PEDESTAL
8059	55 L.F.	ELECTRICAL CABLE - 1 CONDUCTOR NO. 4 A.W.G. - THHN/THWN
8063	2 EACH	NON-INVASIVE DETECTOR, 500 FOOT LEAD-IN CABLE
8064	2 EACH	NON-INVASIVE DETECTOR, 1000 FOOT LEAD-IN CABLE
8065	43 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8068	102 S.F.	INSTALL OVERHEAD SIGN
8069	12 EACH	VIDEO DETECTION CAMERA
8078	2 EACH	STEEL POLE WITH A TWIN 50 FT. AND 70 FT. MAST ARMS
8081	12650 L.F.	12-PAIR COMMUNICATION CABLE, JELLY FILLED (UNDERGROUND)
8082	2 EACH	250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE
8087	7 EACH	GROUND ROD - 3/4 INCH DIAMETER x 10 FOOT LENGTH
8092	2 EACH	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
8095	445 L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.)
8097	545 L.F.	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)
8098	1355 L.F.	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.)
8099	380 L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 A.W.G.) TC
8103	2 EACH	15 FOOT LIGHTING ARM ON SIGNAL STRUCTURE
NEG.	12 EACH	8 INCH LED SIGNAL HEAD SECTION
NEG.	12 S.F.	RELOCATE EXISTING GROUND MOUNTED SIGNS

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CHECKED BY: <u>N. LEARY</u>	S.H.A. NO. <u>AT7025185</u>		
SCALE: <u>NONE</u>	COUNTY: <u>HARFORD</u>	T.I.M.S. NO. <u>6745</u>	<u>9</u> OF <u>9</u>
DATE: <u>8/9/2006</u>	LOG MILE:		