

PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 97 (GEORGIA AVENUE) AND BEL PRE ROAD IN MONTGOMERY COUNTY, MARYLAND. MD 97 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA EIGHT-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE MD 97 APPROACHES OPERATING CONCURRENTLY AND THE BEL PRE ROAD APPROACHES OPERATING CONCURRENTLY.

DOUBLE EXCLUSIVE LEFT-TURN PHASES WILL BE PROVIDED FOR BOTH MD 97 APPROACHES AND EXCLUSIVE/PERMISSIVE LEFT-TURN PHASES WILL BE PROVIDED FOR BOTH BEL PRE ROAD APPROACHES.

ALTERNATE PEDESTRIAN PHASE WILL BE PROVIDED ACROSS THE SOUTH LEG OF MD 97. PEDESTRIAN INDICATIONS WILL BE PROVIDED ACROSS BOTH BEL PRE ROAD APPROACHES.

CONTROLLER REQUIREMENTS

INSTALL A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH L.A.U., L.A.U. PANEL AND TWO (2), FOUR-CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIERS HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET.

MAINTENANCE OF TRAFFIC

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

STANDARD NO. MD-104.00 - 104.00-30	STANDARD NO. MD-104.45-01 (RIGHT LANE CLOSURE)
STANDARD NO. MD-104.37-01 (LEFT LANE CLOSURE)	STANDARD NO. MD-104.46-01 (CENTER LANE CLOSURE)
STANDARD NO. MD-104.38-01 (RIGHT LANE CLOSURE)	STANDARD NO. MD-104.48-01 (INTERSECTION TURN BAY LANE CLOSURE)
STANDARD NO. MD-104.41-01 (INTERSECTION FAR-RIGHT LANE CLOSURE)	STANDARD NO. MD-104.49-01 (SHOULDER WORK)
STANDARD NO. MD-104.43-01 (SHOULDER WORK)	
STANDARD NO. MD-104.44-01 (LEFT LANE CLOSURE)	

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. CHARLES WATKINS
DISTRICT ENGINEER
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MR. MAJIB SHAKIB
ASSISTANT DISTRICT ENGINEER - TRAFFIC
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MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

MR. RANDY BROWN
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (301) 513-7304

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

CATEGORY CODE NO.	QUANTITY	DESCRIPTION
971017	1 EACH	EIGHT PHASE, FULL TRAFFIC-ACTUATED CONTROLLER WITH SYSTEM PACKAGE HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET
973023	176 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF : - 4 EACH R3-5(L) SIGN (30 IN. X 36 IN.) - MAST ARM MOUNT - 2 EACH R10-12 SIGN (36 IN. X 42 IN.) - MAST ARM MOUNT - 2 EACH D-3(1) SIGN "BEL PRE ROAD" (VARIABLE X 16") DUAL FACED - ARM MOUNT - 2 EACH D-3(1) SIGN "GEORGIA AVE" (VARIABLE X 16") DUAL FACED - ARM MOUNT - 1 EACH ASSOCIATED SHIELD ASSEMBLY "SOUTH, MD 97, LEFT ARROW" (36 IN. X 75 IN.) - POLE MOUNT - 1 EACH ASSOCIATED SHIELD ASSEMBLY "NORTH, MD 97, LEFT ARROW" (36 IN. X 75 IN.) - POLE MOUNT - 1 EACH M3-1 (30 IN. X 15 IN.) - GROUND MOUNT - 1 EACH M3-3 (30 IN. X 15 IN.) - GROUND MOUNT - 2 EACH M1-5 (36 IN. X 36 IN.) - GROUND MOUNT - 2 EACH M6-1(R) (30 IN. X 24 IN.) - GROUND MOUNT - 1 EACH W9-2(4) (30 IN. X 42 IN.) - MAST ARM MOUNT

EQUIPMENT LIST "B" CONT.

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

CATEGORY CODE NO.	QUANTITY	DESCRIPTION
800000	1 EACH	FURNISH AND INSTALL VIDEO TRAFFIC DETECTION SYSTEM
800000	1205 L.F.	FURNISH AND INSTALL VIDEO TRAFFIC DETECTOR CABLE
800000	450 L.F.	PULL BACK AND RE-FEED EXISTING ELECTRICAL CABLE
800000	2 EACH	FURNISH AND INSTALL PEDESTRIAN PUSHBUTTON AND R10-4(1) SIGN (NOTE: SIGN TO READ "PUSH BUTTON TO CROSS GEORGIA AVENUE")
800000	LUMP SUM	REMOVAL OF EXISTING SIGNAL EQUIPMENT TO BE SALVAGED
800000	LUMP SUM	DELIVERY OF SALVAGED SIGNAL EQUIPMENT AND MATERIAL
800000	1 EACH	FURNISH AND INSTALL 3 IN. WEATHERHEAD

EQUIPMENT LIST "B"

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

CATEGORY CODE NO.	QUANTITY	DESCRIPTION
120500	LUMP SUM	MAINTENANCE OF TRAFFIC
120610	7 U.D.	ARROW PANEL
120620	300 S.F.	TEMPORARY TRAFFIC SIGNS
203030	10 C.Y.	TEST PIT EXCAVATION
585620	745 L.F.	12 IN. WHITE THERMOPLASTIC PAVEMENT MARKINGS
585624	230 L.F.	24 IN. WHITE THERMOPLASTIC PAVEMENT MARKINGS
801004	20 C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
801106	38 L.F.	FURNISH AND INSTALL 4 IN. X 6 IN. WOOD SIGN SUPPORTS
802501	550 L.F.	FURNISH AND INSTALL NO. 6 A.W.G. STRANDED BARE COPPER GROUND WIRE
810010	45 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE 1-CONDUCTOR NO. 4 A.W.G. - THHN/THWN
811001	3 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
813014	35 S.F.	INSTALL GROUND MOUNTED SIGN
813015	141 S.F.	INSTALL OVERHEAD SIGN
818052	2 EACH	FURNISH AND INSTALL 27 FT. STEEL POLE WITH A 70 FT. MAST ARM
831010	2 EACH	FURNISH AND INSTALL 250 WATT HPS LUMINAIRE WITH PHOTOCCELL
833050	30 L.F.	FURNISH AND INSTALL 2 IN. PVC CONDUIT, SCHEDULE 80, RISER
837001	7 EACH	FURNISH AND INSTALL GROUND ROD- 3/4 IN. DIAMETER X 10 FT. LENGTH
838003	1 EACH	FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT
860270	12 EACH	FURNISH AND INSTALL 8 IN. VEHICULAR TRAFFIC SIGNAL HEAD SECTION
860272	50 EACH	FURNISH AND INSTALL 12 IN. VEHICULAR TRAFFIC SIGNAL HEAD SECTION
860278	12 EACH	FURNISH AND INSTALL 12 IN. PEDESTRIAN SIGNAL HEAD SECTION - POLE MOUNT
860292	4 EACH	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC
861105	350 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE- 2 CONDUCTOR (NO. 14 A.W.G.)
861106	1450 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE- 3 CONDUCTOR (NO. 14 A.W.G.)
861107	275 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE- 5 CONDUCTOR (NO. 14 A.W.G.)
861108	3600 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE- 7 CONDUCTOR (NO. 14 A.W.G.)
861116	600 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE- 2 CONDUCTOR (NO. 12 A.W.G.)
866104	2 EACH	FURNISH AND INSTALL 20 FT. STREET LIGHT ARM
870160	20 L.F.	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
870166	160 L.F.	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
870168	440 L.F.	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED
871202	1 EACH	INSTALL CONTROLLER AND CABINET - BASE MOUNT
800000	LUMP SUM	REMOVAL AND DISPOSAL OF EXISTING MATERIAL AND EQUIPMENT
800000	1 EACH	FURNISH AND INSTALL 27 FT. STEEL POLE WITH A 60 FT. MAST ARM
800000	1 EACH	FURNISH AND INSTALL 27 FT. STEEL POLE WITH A 50 FT. MAST ARM

TSP-4

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
 Office of Traffic & Safety
 TRAFFIC ENGINEERING DESIGN DIVISION
 TRAFFIC SIGNALIZATION PLAN
 MD 97 (GEORGIA AVE.) AND BEL PRE ROAD

WR&A
 Whitman, Reardon
 and Associates, LLP
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 Baltimore, Maryland 21218
 (410) 235-3450

DRAWN BY: S.BLOSS	F.A.P. NO. SEE TITLE SHEET	TS NO. TS-3337B	SHEET NO.
CHECKED BY: N.LEARY	S.H.A. NO. MD0225171	T.I.M.S. NO. 0728	18 OF 24
SCALE: 1" = 20'	COUNTY: MONTGOMERY	LOG MILE:	
DATE: 1/22/01			