PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE RECONSTRUCTION OF AN EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTIONS OF MD 528 AND 1ST STREET, MD 528 AND 2ND STREET, MD 528 AND 5TH STREET AND MD 528 AND 8TH STREET. MD 528 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

A. MD 528 AND 1ST STREET.

THE INTERSECTION WILL OPERATE IN A NEMA TWO-PHASE, SEMI-ACTUATED MODE, WITH THE MD 528 APPROACH OPERATING ALONE AND THE 1ST STREET APPROACH OPERATING ALONE.

B. MD 528 AND 2ND STREET.

THE INTERSECTION WILL OPERATE IN A NEMA THREE-PHASE, PRE-TIMED MODE, WITH MD 528 APPROACH OPERATING ALONE AND THE 2ND STREET APPROACHES OPERATING CONCURRENTLY.

C. MD 528 AND 5TH STREET.

THE INTERSECTION WILL OPERATE IN A NEMA THREE-PHASE, PRE-TIMED MODE, WITH THE MD 528 APPROACH OPERATING ALONE AND THE 5TH STREET APPROACHES OPERATING CONCURRENTLY.

D. MD 528 AND 8TH STREET

THE INTERSECTION WILL OPERATE IN A NEMA THREE-PHASE, PRE-TIMED MODE, WITH THE MD 528 APPROACH OPERATING ALONE AND 8TH STREET APPROACHES OPERATING CONCURRENTLY.

CONTROLLER REQUIREMENTS

MD 528 INTERSECTIONS.

INSTALL A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH SYSTEM PACKAGE HOUSED IN A NEMA SIZE "5" POLE MOUNTED CABINET.

INSTALL ONE (1), FOUR-CHANNEL, TIME-DELAY-OUTPUT, LOOP DETECTOR AMPLIFIER IN THE NEMA SIZE "5" POLE MOUNTED CABINET AT 1ST STREET.

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. DONNIE LEE DREWER
DISTRICT ENGINEER
PHONE: (410) 543-6720

MR. GENE COFFIEL
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 543-6715

MR. JAMES R. WRIGHT
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 543-6715

MR. BRUCE W. POOLE
DISTRICT UTILITIES ENGINEER
PHONE: (410) 543-6715

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

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
9002	1 EACH	FOUR-CHANNEL, LOOP DETECTOR AMPLIFIER
9080	4 EACH	EIGHT-PHASE, FULL-TRAFFIC-ACTUATED CONTROLLER WITH SYSTEM PACKAGE HOUSED IN A NEMA SIZE "5" POLE MOUNTED CABINET.
9089	202 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF :
	- 7 EACH	D-3(1) SIGN "PHILA. AVE" (VARIABLE X 16 IN.) - POLE MOUNT.
	- 1 EACH	D-3(1) SIGN "1ST STREET" (VARIABLE X 16 IN.) DUAL FACED - MAST ARM MOUNT.
	- 1 EACH	D-3(1) SIGN "2ND STREET" (VARIABLE X 16 IN.) DUAL FACED - MAST ARM MOUNT.
	- 1 EACH	D-3(1) SIGN "5TH STREET" (VARIABLE X 16 IN.) DUAL FACED - MAST ARM MOUNT.
	- 1 EACH	D-3(1) SIGN "8TH STREET" (VARIABLE X 16 IN.) DUAL FACED - MAST ARM MOUNT.
	- 4 EACH	R3-1 SIGN (30 IN. X 30 IN.) - MAST ARM MOUNT.
	- 4 EACH	R3-2 SIGN (30 IN. X 30 IN.) - MAST ARM MOUNT.
	- 1 EACH	R3-5L SIGN (30 IN. X 36 IN.) - MAST ARM MOUNT.
	- 1 EACH	R3-6 SIGN (30 IN. X 36 IN.) - MAST ARM MOUNT.
	- 1 EACH	MODIFIED M95-1 "U.S. 50 SHIELD, LEFT ARROW" - MAST ARM MOUNT.

EQUIPMENT LIST "B"

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
2001	5 C.Y.	TEST PIT EXCAVATION
2004	20 C.Y.	CLASS 2 EXCAVATION
5002	20 L.F.	5 IN. WHITE THERMOPLASTIC PAVEMENT MARKINGS
5003	330 L.F.	12 IN. WHITE THERMOPLASTIC PAVEMENT MARKINGS
5004	185 L.F.	24 IN. WHITE THERMOPLASTIC PAVEMENT MARKINGS
5005	8 EACH	THERMOPLASTIC PAVEMENT MARKING LETTER
5006	4 EACH	THERMOPLASTIC PAVEMENT MARKING ARROW
5007	800 L.F.	REMOVE EXISTING PAVEMENT MARKINGS - ANY WIDTH
6001	500 S.F.	4 IN. CONCRETE SIDEWALK
6009	80 L.F.	FURNISH AND INSTALL DEPRESSED CURB AND GUTTER
8001	21 C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
8006	6 EACH	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
8007	4 EACH	FURNISH AND INSTALL 3 IN. BLIND COUPLING FOR TRAFFIC SIGNAL STRUCTURE
8008	5 EACH	FURNISH AND INSTALL 3 IN. WEATHERHEAD
8009	80 L.F.	FURNISH AND INSTALL STEEL SPAN WIRE - 3/8 IN. DIAMETER
8019	4 EACH	INSTALL CONTROLLER AND CABINET - POLE MOUNT
8021	500 L.F.	SAWCUT FOR SIGNAL (LOOP DETECTOR)
8023	45 L.F.	FURNISH AND INSTALL 1 IN. LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
8024	30 L.F.	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8027	50 L.F.	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8030	20 L.F.	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8033	2 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8034	5 EACH	FURNISH AND INSTALL GROUND ROD - 3/4 IN. DIAMETER X 10 FT. LENGTH
8038	4700 L.F.	FURNISH AND INSTALL 12-PAIR COMMUNICATION CABLE, SELF SUPPORTING (OVERHEAD)
8040	1650 L.F.	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 A.W.G.)
8041	470 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)
8044	2200 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)
8048	100 L.F.	FURNISH AND INSTALL STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
8049	225 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G. - THHN/THWN)
8053	202 S.F.	INSTALL OVERHEAD SIGN
8057	1 EACH	REMOVE AND DISPOSE OF EXISTING FOUNDATION 12 IN. BELOW GRADE
8058	4 EACH	REMOVAL OF EXISTING CONTROLLER, CABINET, AND GALVANIZED SIGNAL STRUCTURE
8059	4 EACH	DELIVERY OF REMOVED CONTROLLER, CABINET, AND GALVANIZED SIGNAL STRUCTURE
8060	1 EACH	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT PER ASSIGNMENT
8063	25 L.F.	FURNISH AND INSTALL 3 IN. ELECTRICAL CONDUIT - PVC RISER
8064	140 L.F.	FURNISH AND INSTALL 2 IN. ELECTRICAL CONDUIT - PVC RISER
8066	4 EACH	FURNISH AND INSTALL CONTROL AND DISTRIBUTION
8076	1 EACH	FURNISH AND INSTALL MAST ARM POLE AND 38 FT. MAST ARM
8077	1 EACH	FURNISH AND INSTALL MAST ARM POLE AND 50 FT. MAST ARM
8078	3 EACH	FURNISH AND INSTALL MAST ARM POLE AND 60 FT. MAST ARM
8084	25 EACH	FURNISH AND INSTALL 12 IN. VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8085	54 EACH	FURNISH AND INSTALL 8 IN. VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8087	16 EACH	FURNISH AND INSTALL 12 IN. PEDESTRIAN SIGNAL HEAD SECTION
NEG.	260 L.F.	FURNISH AND INSTALL 3 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT
NEG.	LUMP SUM	REBUILD PLANTER ISLAND

WR&A
Whitman, Requardt and Associates, LLP
2315 Saint Paul Street
Baltimore, Maryland 21218
(410) 235-3450

REVISIONS

APPROVALS

ASST. TRAFFIC ENGINEERING DESIGN DIVISION

ASST. DISTRICT ENGINEER, TRAFFIC

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
MD 528 INTERSECTIONS

DRAWN BY: S.BLOSS	F.A.P. NO. AC-STPG-000S(587)E	TS NO.	SHEET NO.
CHECKED BY: N.LEARY	S.H.A. NO.		
SCALE: NONE	COUNTY: WORCESTER	T.I.M.S. NO.	7 OF 7
DATE: 10-99	LOG MILE:		

AW276A5M/B5M

M:\94002\30922GI3.DGN