PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF A NEW INTERSECTION CONTROL BEACON AND STREET LIGHTING AT THE INTERSECTION OF MD 260 AND JEWELL ROAD/BRICKHOUSE ROAD IN CALVERT COUNTY. MD 260 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A FLASHING MODE WITH INDICATIONS FOR MD 260 FLASHING YELLOW.

THE MAST ARMS AND RED FLASHING INDICATIONS FOR THE JEWELL ROAD/BRICKHOUSE ROAD APPROACHES WILL BE INSTALLED IN THE FUTURE.

CONTROLLER REQUIREMENTS

INSTALL A NEMA SIZE '5' POLE-MOUNTED CABINET, TWO-CIRCUIT FLASHER UNIT WITH PHOTO-CELL, DIMMER SWITCH AND INTERSECTION MONITOR II, WITH BATTERY BACK-UP FOR PHONE DROP.

SPECIAL NOTE

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 WITH THE NEAREST STREET ADDRESS, ZIP CODE, AND PHONE NUMBER.

MAINTENANCE OF TRAFFIC

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

STANDARD NO. MD-104.00 - 104.00-12
STANDARD NO. MD-104.31-01 (FLAGGING OPERATION)
STANDARD NO. MD-104.49-01 (SHOULDER WORK)
STANDARD NO. MD-104.45-01 (RIGHT-LANE CLOSURE)
STANDARD NO. MD-104.35-01 (LANE SHIFT)
STANDARD NO. MD-104.33-02 (SHOULDER WORK)
STANDARD NO. MD-104.32-02 (INTERSECTION FLAGGING OPERATION)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. PAUL D. ARMSTRONG
DISTRICT ENGINEER
PHONE: (410) 841-5450

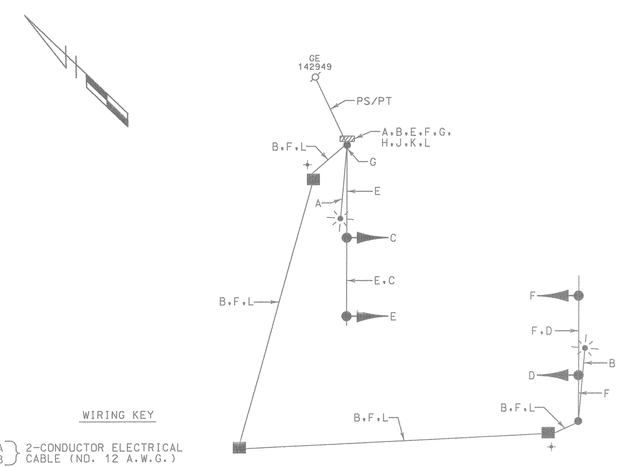
MR. LAWRENCE E. ELLIOTT
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 841-5450

MR. CHUCK GEORGE
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 841-5462

MR. JOHN MAYS
DISTRICT UTILITY ENGINEER
PHONE: (410) 841-5450

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

WIRING DIAGRAM



WIRING KEY

A, B — 2-CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.)
C, D — 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
E, F — 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
G — 3-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
H, J, K — 1-CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.)
L — STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)

PS/PT - PROPOSED UNDERGROUND ELECTRICAL AND TELEPHONE SERVICE

+ - 3/4 IN. X 10 FT. GROUND ROD

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
9080	1 EACH	TWO CIRCUIT FLASHER UNIT WITH PHOTOCELL DIMMER SWITCH AND INTERSECTION MONITOR II WITH BATTERY BACK-UP FOR PHONE DROP HOUSED IN A NEMA SIZE "5" POLE MOUNTED CABINET.
9089	94 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF :
	- 2 EACH	D-3(1) SIGN (VARIABLE X 16 IN.) DUAL FACED - MAST ARM MOUNT.
	- 1 EACH	ASSOCIATED SHIELD ASSEMBLY "EAST, MD 260, RIGHT ARROW" (30 IN. x 51 IN.) - POLE MOUNT.
	- 1 EACH	ASSOCIATED SHIELD ASSEMBLY "EAST, MD 260, LEFT ARROW" (48 IN. x 75 IN.) - POLE MOUNT.
	- 1 EACH	ASSOCIATED SHIELD ASSEMBLY "WEST, MD 260, RIGHT ARROW" (30 IN. x 51 IN.) - POLE MOUNT.
	- 1 EACH	ASSOCIATED SHIELD ASSEMBLY "WEST, MD 260, LEFT ARROW" (48 IN. x 75 IN.) - POLE MOUNT.

PHASE CHART

	1	2	3	4	
	(Y)	(Y)	(Y)	(Y)	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	←→

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	2 C.Y.	TEST PIT EXCAVATION
8001	8 C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
8006	1 EACH	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
8019	1 EACH	INSTALL CONTROLLER AND CABINET-POLE MOUNT
8024	25 L.F.	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8027	60 L.F.	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8030	25 L.F.	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8031	100 L.F.	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED
8032	95 L.F.	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - BORED
8033	3 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8034	2 EACH	FURNISH AND INSTALL GROUND ROD - 3/4 IN. DIAMETER X 10 FT. LENGTH
8043	40 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 3 CONDUCTOR (NO. 14 A.W.G.)
8044	60 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)
8045	395 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.)
8046	335 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 A.W.G.)
8048	220 L.F.	FURNISH AND INSTALL NO. 6 A.W.G. STRANDED BARE COPPER GROUND WIRE
8049	45 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE 1 CONDUCTOR - THHN/THWN (NO. 4 A.W.G.)
8053	94 S.F.	INSTALL OVERHEAD SIGN
8055	2 EACH	FURNISH AND INSTALL 250 WATT HPS LUMINAIRE WITH PHOTOCELL
8056	2 EACH	FURNISH AND INSTALL 15 FT. LIGHTING BRACKET FOR TRAFFIC SIGNAL STRUCTURE
8059	2 EACH	DELIVERY OF MAST ARM
8060	1 EACH	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT PER ASSIGNMENT
8066	1 EACH	FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT (120/240V, 1 PHASE 3 WIRE SYS)
8069	1 EACH	FURNISH AND INSTALL PHOTOCELL
8080	1 EACH	FURNISH AND INSTALL MAST ARM POLE AND TWIN 50 FT./50 FT. MAST ARMS
8081	1 EACH	FURNISH AND INSTALL MAST ARM POLE AND TWIN 50 FT./60 FT. MAST ARMS
8084	4 EACH	FURNISH AND INSTALL 12 IN. VEHICULAR TRAFFIC SIGNAL HEAD SECTION
NEG.	2 EACH	RELOCATE EXISTING GROUND MOUNTED SIGN AND SUPPORT

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
TRAFFIC SIGNALIZATION PLAN
MD 260 & JEWELL RD./BRICKHOUSE RD.

DRAWN BY: S.BLOSS	F.A.P. NO.	TS NO.	SHEET NO.
CHECKED BY: S.CHERNACK	S.H.A. NO.		
SCALE: NONE	COUNTY: CALVERT	T.I.M.S. NO.	2 OF 2
DATE: 6-28-99	LOG MILE:		

M:\96011\31244GIS.DGN