

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF A SCHOOL HAZARD IDENTIFICATION BEACON ON EASTBOUND AND WESTBOUND MD 214 (CENTRAL AVENUE) APPROACHING DAVIDSONVILLE ELEMENTARY SCHOOL IN ANNE ARUNDEL COUNTY, MD 214 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE HAZARD IDENTIFICATION BEACONS WILL OPERATE IN A FLASHING MODE DURING SCHOOL OPENING AND DISMISSAL PERIODS.

CONTROLLER REQUIREMENTS

INSTALL TWO-CIRCUIT FLASHER UNIT WITH PHOTOCELL, DIMMER SWITCH AND INTERSECTION MONITOR WITH BATTERY BACKUP FOR PHONE DROP AND ASSOCIATED HARNESSSES HOUSED IN A NEMA SIZE "5" POLE MOUNTED CABINET.

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 INSTALLATIONS. THE CONTRACTOR IS TO PROVIDE MR. SNYDER THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY SHA

ITEM NO.	QUANTITY	DESCRIPTION
9000	2 EACH	SOLAR POWER CONTROL EQUIPMENT WITH SIGNALS, SIGNS AND POLE MOUNT CABINET
9043	2 EACH	EIGHT PHASE CONTROLLER HOUSED IN A NEMA SIZE "5" POLE MOUNTED CABINET.
9067	2 EACH	14 FT. BREAKAWAY PEDESTAL POLE WITH ANCHOR BOLTS
9571	18 S.F.	SHEET ALUMINUM MAST ARM/ POLE MOUNTED SIGNS TO CONSIST OF : - 2 EACH S1-1 MODIFIED SIGN (36 IN. x 36 IN.)

EQUIPMENT LIST "B"

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

ITEM NUMBER	QUANTITY	UNIT	DESCRIPTION
1001	1	EA	Maintenance of Traffic
2002	2	CY	Test Pit Excavation
5002	12	EA	Furnish and Install Heat Applied Permanent Pavement Marking, Letter
5003	12	EA	Remove Existing Pavement Marking, Letter or Arrow
8011	4	EA	Furnish and Install 12 Inch Vehicular Traffic Signal Head Section
8031	2	EA	Furnish and Install Photocell
8048	1	EA	Remove and Dispose of Material and Equipment per Assignment
8052	60	LF	Furnish and Install 4 Inch Schedule 80 Rigid PVC Conduit - Bored
8053	40	LF	Furnish and Install 4 Inch Schedule 80 Rigid PVC Conduit - Trenched
8057	2	CY	Furnish and Install Concrete for Signal Foundation
8060	80	LF	Furnish and Install No. 6 A.W.G. Stranded Bare Copper Ground Wire
8063	90	LF	Furnish and Install 2 Inch Schedule 80 Rigid PVC Conduit - Bored
8069	2	EA	Furnish and Install Metered Service Pedestal
8071	90	LF	Furnish and Install Electrical Cable - 1 Conductor (No. 8 A.W.G. - THHN/THWN)
8072	2	EA	Furnish and Install Electrical Handhole
8075	40	SF	Install Overhead Sign
8080	8	EA	Furnish and Install Ground Rod - 3/4 Inch Diameter x 10 Foot Length
8083	80	LF	Furnish and Install Electrical Cable - 3 Conductor (No. 14 A.W.G.)
8091	50	LF	Furnish and Install 2 Inch Schedule 80 Rigid PVC Conduit - Trenched
8092	2	EA	Install Controller and Cabinet - Pole Mount
NEG	2	EA	Install Solar Power Equipment, LED SIGNALS AND POLE MOUNTED CABINET
NEG	2	EA	Install Breakaway Pedestal Pole

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-104.33-01 (SHOULDER WORK)
- STANDARD NO. MD-104.35-01 (LANE SHIFT)

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. LAWRENCE E. ELLIOT
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 841-1019

MR. JOHN S. MAYS
DISTRICT UTILITIES ENGINEER
PHONE: (410) 841-1039

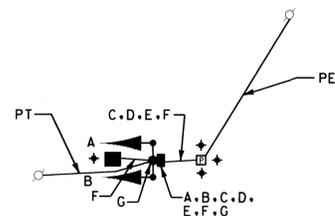
MR. CHUCK E. GEORGE
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 841-1013

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

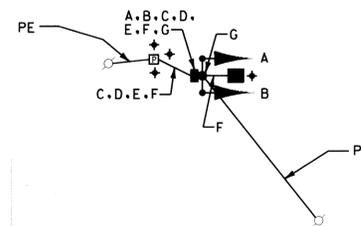
WIRING DIAGRAM



WESTBOUND MD 22 - HIB



EASTBOUND MD 22 - HIB



WIRING KEY

A, B, G } 3-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

C, D, E } 1-CONDUCTOR ELECTRICAL CABLE (NO. 8 A.W.G.)

F } STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)

PE - PROPOSED UNDERGROUND ELECTRICAL SERVICE

PT - PROPOSED UNDERGROUND TELEPHONE SERVICE

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

WR&A
Whitman, Reardon and Associates, LLP
801 South Caroline Street
Baltimore, Maryland 21231
(410) 235-3450

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
MD 214 AND DAVIDSONVILLE ELEM. SCHOOL
HAZARD IDENTIFICATION BEACONS

DRAWN BY: S. BLOSS	F.A.P. NO.	TS NO.
CHECKED BY: N. LEARY	S.H.A. NO. AA287A57	SHEET NO.
SCALE: NONE	COUNTY: ANNE ARUNDEL	T.I.M.S. NO. F435
DATE: 8/19/02	LOG MILE:	2 OF 2