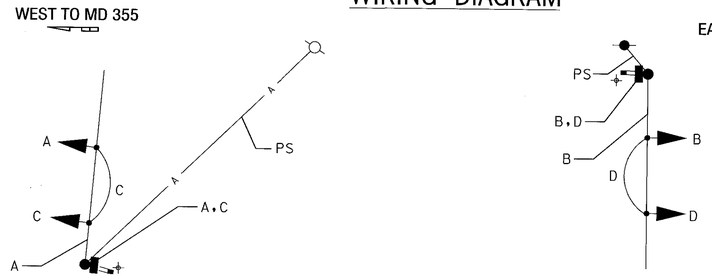
MD 410 IS ASSUMED TO RUN IN AN EAST/WEST DIRECTION

WIRING DIAGRAM



KEY

A, B, C, D — 3 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG.)

PS — POWER SERVICE (UNDERGROUND)

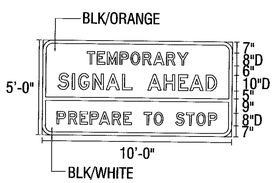
GROUND ROD

NEMA PHASING

FLASHING OPERATION

PROPOSED SIGNS

5-6

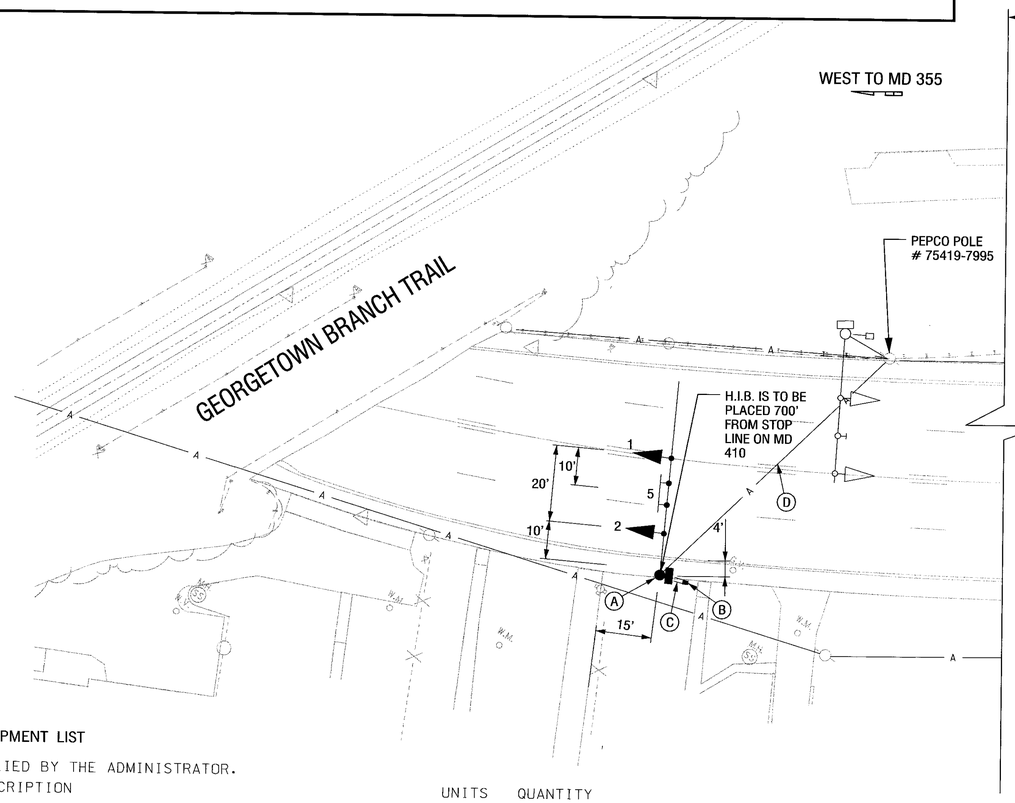


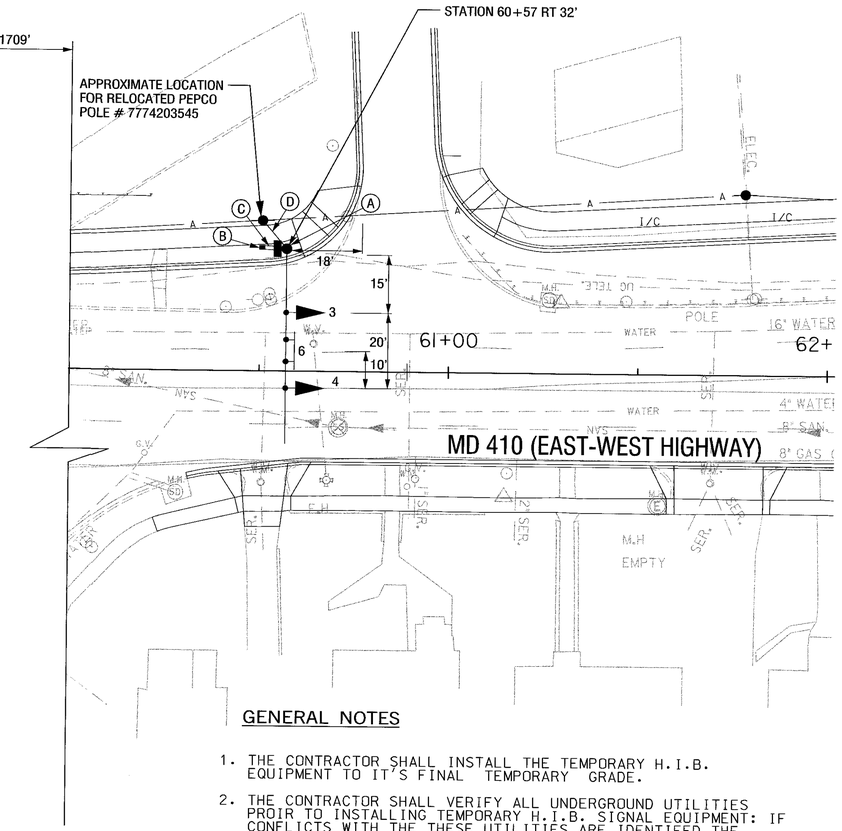
PROPOSED SIGNALS

1-4

(Y)

12"





EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATOR.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
900000	STEEL POLE WITH A SINGLE 50 FOOT MAST ARM (SUPPLIED BY SHA TO CONTRACTOR)	EA	2
971040	TWO CIRCUIT FLASHER AND CABINET-POLE MOUNT	EA	2
973023	FLAT SHEET ALUMINUM SIGNS	SF	50

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

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
203030	TEST PIT EXCAVATION	CY	2
801004	CONCRETE FOR SIGNAL FOUNDATION	CY	6.00
805135	3" SCHED. 80 PVC CONDUIT - TRENCHED	LF	100
807400	ELECTRICAL UTILITY SERVICE EQUIPMENT	EA	2
811001	HANDHOLE	EA	2
813015	INSTALL OVERHEAD SIGNS	SF	50
832017	1-COND., NO. 4 AWG ELECT. CABLE	LF	100
832020	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	100
837001	GROUND ROD	EA	2
860272	12" SIGNAL HEAD SECTION	EA	4
861106	3-COND., NO. 14 AWG ELECT. CABLE	LF	200
871201	INSTALL CONTROLLER AND CABINET - POLE MT	EA	2

CONSTRUCTION DETAILS

A. INSTALL CONCRETE FOUNDATION WITH 21 FT. STEEL POLE WITH 50 FT. MAST ARM , CONTROLLER AND CABINET. SIGNAL HEADS, AND SIGN. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND).

B INSTALL HANDHOLE

C. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCED.

D. INSTALL 3 WIRE NO. 4 AWG FOR OVERHEAD SERVICE PROVIDED BY PEPCO.

GENERAL NOTES

1. THE CONTRACTOR SHALL INSTALL THE TEMPORARY H.I.B. EQUIPMENT TO IT'S FINAL TEMPORARY GRADE.
2. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PROIR TO INSTALLING TEMPORARY H.I.B. SIGNAL EQUIPMENT: IF CONFLICTS WITH THE THESE UTILITIES ARE IDENTIFED THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.

GEOMETRIC LEGEND

PROPOSED

EXISTING

UTILITY LEGEND

SD — SD	STORM DRAIN
G — G	GAS MAIN
W — W	WATER MAIN
S — S	SEWER MAIN
E — E	ELECTRIC CABLES
A — A	AERIAL CABLES
T — T	TELEPHONE CABLES
C-T — C-T	CABLE TV

SABRA, WANG & ASSOCIATES, INC.
1506 JOH AVENUE
SUITE 180
BALTIMORE, MD 21227
WWW.SABRA-WANG.COM

REVISIONS	APPROVALS
	TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION 12-19-02
	ASS'T. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION 1-2-03
	DIRECTOR, OFFICE OF TRAFFIC & SAFETY 1-8-03

TSP-7

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
TRAFFIC SIGNAL PLAN

MD RTE. 410 TEMPORARY HAZARD INDICATION BEACONS

DRAWN BY:	S. SMITH	F.A.P. NO.	SEE TITLE SHEET	TS NO. 4-216	SHEET NO.
CHECKED BY:	S. RENZI	S.H.A. NO.	M0879517I		
SCALE:	1" = 20'	COUNTY:	MONTGOMERY	T.I.M.S. NO. F438	OF
DATE:	DECEMBER 2002	LOG MILE:	15041005.29		