PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES INSTALLATION OF NAVIGATOR PEDESTRIAN SIGNAL PUSHBUTTON STATIONS AT MD 45 (YORK ROAD) AND FAIRMONT AVE./CARVER SCHOOL ENTRANCE IN BALTIMORE COUNTY.
MD 45 IS ASSUMED TO RUN IN AN NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION

THE INTERSECTION SHALL CONTINUE THE FIVE-PHASE, FULL TRAFFIC ACTUATED OPERATION WITH A SOUTHBOUND EXCLUSIVE LEFT TURN PHASE.

ALTERNATE PEDESTRIAN PHASES SHALL BE PROVIDED ACROSS BOTH LEGS OF MD 45, THE LEG ACROSS FAIRMONT AVE AND THE LEG ACROSS THE CARVER SCHOOL ENTRANCE.

THE EXISTING BASE- MOUNTED CABINET SHALL BE UTILIZED. THE SIGNAL SHOP SHALL PERFORM THE INTERNAL WIRING TO THE EXISTING CONTROLLER.

III. SPECIAL NOTE

THE CONTRACTOR SHALL PURCHASE AND DELIVER THE NAVIGATOR CENTRAL CONTROL UNIT TO THE SHA, SIGNAL SHOP. MR. EDWARD RODENHIZER (410) 787-7652 SHALL BE NOTIFIED THREE(3) DAY PRIOR TO THE DELIVERY.

PROJECT CONTACTS

CONTACT PERSONS FOR
DISTRICT 4 ARE AS FOLLOWS:

MR. RANDALL SCOTT
ASSISTANT DISTRICT ENGINEER
TRAFFIC - 410-321-2781

MR. GRADON TOBERY
ASSISTANT DISTRICT ENGINEER
CONSTRUCTION - 410-321-2821

MR. STEVE MARCISZEWSKI
ASSISTANT DISTRICT ENGINEER
MAINTENANCE - 410-321-2761

MR. SUENETTE POPE
ASSISTANT DISTRICT ENGINEER
UTILITIES - 410-321-2841

CONTACTS FOR OFFICE OF
TRAFFIC AND SAFETY:

MR. RICHARD DAFF SR.CHIEF,
TRAFFIC OPERATIONS DIVISION
410-787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF,
TRAFFIC OPERATIONS DIVISION
410-787-7630

MR. ED RODENHIZER
TEAM LEADER - SIGNAL OPERATIONS
410-787-7650

MR. DERRICK DICKERSON
PROJECT MANAGER
SIGNAL ENGINEERING
410-787-5856

EQUIPMENT LIST "A"

NO EQUIPMENT SHALL BE SUPPLIED BY THE SHA.

EQUIPMENT LIST "B"

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC.
2001	20 CY	CLASS 2 EXCAVATION.
2002	2 CY	TEST PIT EXCAVATION.
6004	160 SF	4" CONCRETE SIDEWALK.
8001	3 CY	CONCRETE FOUNDATION.
8018	4 EA	10' PEDESTAL POLE WITH BREAKAWAY BASE (CUT TO 4').
8019	1 EA	REMOVE AND DISPOSE OF EXISTING EQUIPMENT.
8029	125 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE.
8034	10 LF	2" SCHEDULE 80 PVC CONDUIT- BORED.
8037	90 LF	2" SCHEDULE 80 PVC CONDUIT-TRENCHED.
8073	4 EA	GROUND ROD (3/4" DIA X 10' LENGTH).
8078	4 EA	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE.
8081	1085 LF	2-CONDUCTOR (NO. 14 AWG) ELECTRICAL CABLE.
NEG.	8 EA	2 WIRE NAVIGATOR PEDESTRIAN SIGNAL PUSHBUTTON STATION.
NEG.	1 EA	2 WIRE NAVIGATOR CENTRAL CONTROL UNIT.
NEG.	78 SF	DETECTOR WARNING SURFACE (SPEC NO. 611), HIGHWAY DESIGN MANUAL (DATED 07/01/03).

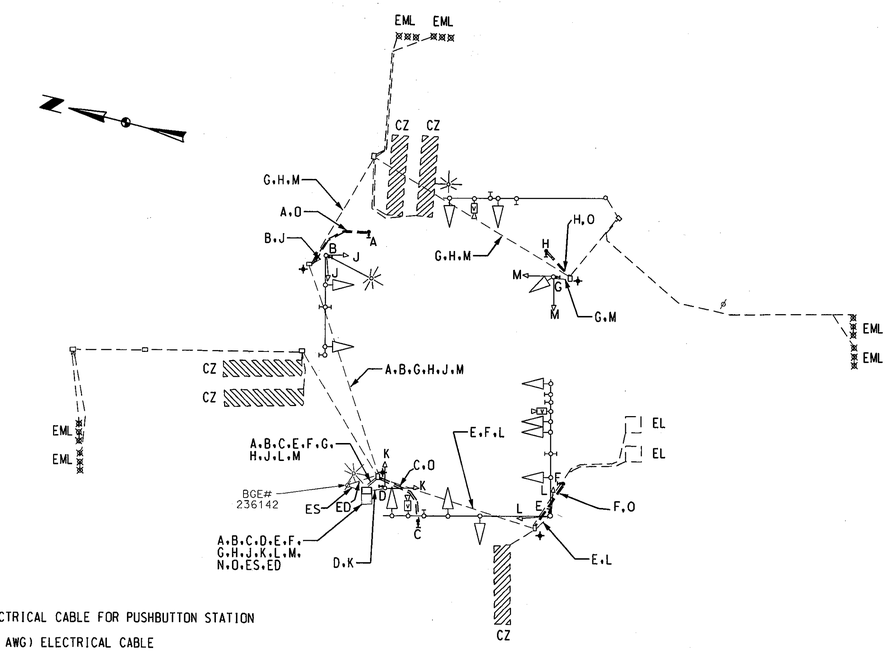
EQUIPMENT LIST "C"

ALL MATERIAL AND EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	R Y G	R Y G	◄R- ◄Y- ◄G-	◄R- ◄Y- ◄G-	◄R- ◄Y- ◄G-	R Y G	R Y G	Y Y Y	R Y G	R Y G	R Y G	R Y G								
PHASE 5	R	R	◄G-	◄G-	◄G-	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
5 CHANGE	R	R	◄G-	◄G-	◄G-	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 2 + 5	R	R	◄G-	◄G-	◄G-	G	G	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
2 + 5 CHANGE	R	R	◄Y-	◄Y-	◄Y-	G	G	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 2 + 6	G	G	◄R-	◄R-	◄R-	G	G	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
2 + 6 CHANGE	Y	Y	◄R-	◄R-	◄R-	Y	Y	R	R	R	R	R	WK	WK	WK	WK	DW	DW	DW	DW
PHASE 2 + 6 ALT	G	G	◄R-	◄R-	◄R-	G	G	R	R	R	R	R	WK	WK	WK	WK	DW	DW	DW	DW
PED CLEARANCE	G	G	◄R-	◄R-	◄R-	G	G	R	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW	DW	DW
2 + 6 ALT CHANGE	Y	Y	◄R-	◄R-	◄R-	Y	Y	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 + 8	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	DW	DW	DW	DW
4 + 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 + 8 ALT	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	WK	WK	WK	WK
PED CLEARANCE	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	FL/DW	FL/DW	FL/DW	FL/DW
4 + 8 ALT CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK

WIRING DIAGRAM



WIRING KEY

A - H - 2 CONDUCTOR (NO. 14 AWG) ELECTRICAL CABLE FOR PUSHBUTTON STATION
J - M - EXISTING 5 CONDUCTOR (NO. 14 AWG) ELECTRICAL CABLE
N - 2 CONDUCTOR (NO.14 AWG) ELECTRICAL CABLE FOR CENTRAL CONTROL UNIT
O - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
EL - EXISTING LOOP WIRE
CZ - CAMERA ZONE
EML - EXISTING MICRO-LOOP PROBE SET
✦ - 3/4 IN. x 10 FT. GROUND ROD
ES - EXISTING OVERHEAD SERVICE BGE # 236142
ED - EXISTING UNDER GROUND PHONE SERVICE

MD #: 04HA-AT-001 TOD #: AT2887-30

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
MD 45 (YORK RD) AND FAIRMOUNT AVE./ CARVER SCHOOL ENTRANCE

CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS - PLANNERS
32 WEST ROAD
TOWSON, MARYLAND 21204

DRAWN BY: S.P.	F.A.P. NO.		TS NO. 3981 B	SHEET NO.	
CHECKED BY: E.M.M. + TH	S.H.A. NO.	AT2885185			
SCALE: N/A	COUNTY:	BALTIMORE	T.I.M.S. NO. F777	2 OF 2	
DATE: 4/28/04	LOG MILE:	030045002.78			

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