

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF AN EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD ROUTE 28 (DARNESTOWN ROAD) AND KEY WEST AVENUE IN MONTGOMERY COUNTY. MD ROUTE 28 (DARNESTOWN ROAD) IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

II. INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA, TWO (2) PHASE, FULL-TRAFFIC-ACTUATED MODE. THE MD 28 (KEY WEST AVENUE) THROUGH MOVEMENTS WILL OPERATE CONCURRENTLY. THE DARNESTOWN ROAD MOVEMENT WILL OPERATE SEPARATELY. A CONCURRENT PEDESTRIAN PHASE WILL OPERATE ALONG THE SOUTH LEG OF MD 28 (KEY WEST AVENUE). AN ALTERNATE PEDESTRIAN PHASE WILL OPERATE ALONG THE EAST LEG OF MD 28.

A FULL-TRAFFIC-ACTUATED EIGHT-PHASE CONTROLLER WITH FOUR (2) TWO-CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIERS, AND L.A.U. AND L.A.U. PANEL WITH ASSOCIATED HARNESS HOUSED IN A NEMA SIZE #6" BASE MOUNTED CABINET WILL BE INSTALLED AT THIS LOCATION.

III. INTERCONNECTION

THE EXISTING 50 PAIR VOIE GRADE INTERCONNECT CABLE BETWEEN THE INTERSECTIONS OF MD 28 @ KEY WEST AVENUE AND MD 28 @ GREAT SENECA HIGHWAY IS TO BE REROUTED AS SHOWN ON THE WIRING DIAGRAM.

IV. PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT THREE ARE AS FOLLOWS:

MR. CHARLIE WATKINS
DISTRICT ENGINEER
PHONE: (301) 513-7311

MR. AUGUSTINE REBISH
UTILITY ENGINEER
PHONE: (301) 513-7350

MR. MAJID SHAKIB
ASSISTANT DISTRICT
ENGINEER-TRAFFIC
PHONE: (301) 513-7358

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

THE CONTACT PERSON FOR
MONTGOMERY COUNTY DPW-T IS:
MR. ROBERT GONZALES
PHONE: (240) 777-8761

THE POWER COMPANY REPRESENTATIVE IS
POTOMAC ELECTRIC POWER COMPANY
MR. JIM SLAYTON
PHONE: (202) 872-2000

V. MAINTENANCE OF TRAFFIC

THE FOLLOWING STANDARD TRAFFIC CONTROL NUMBERS SHALL BE REFERENCED:

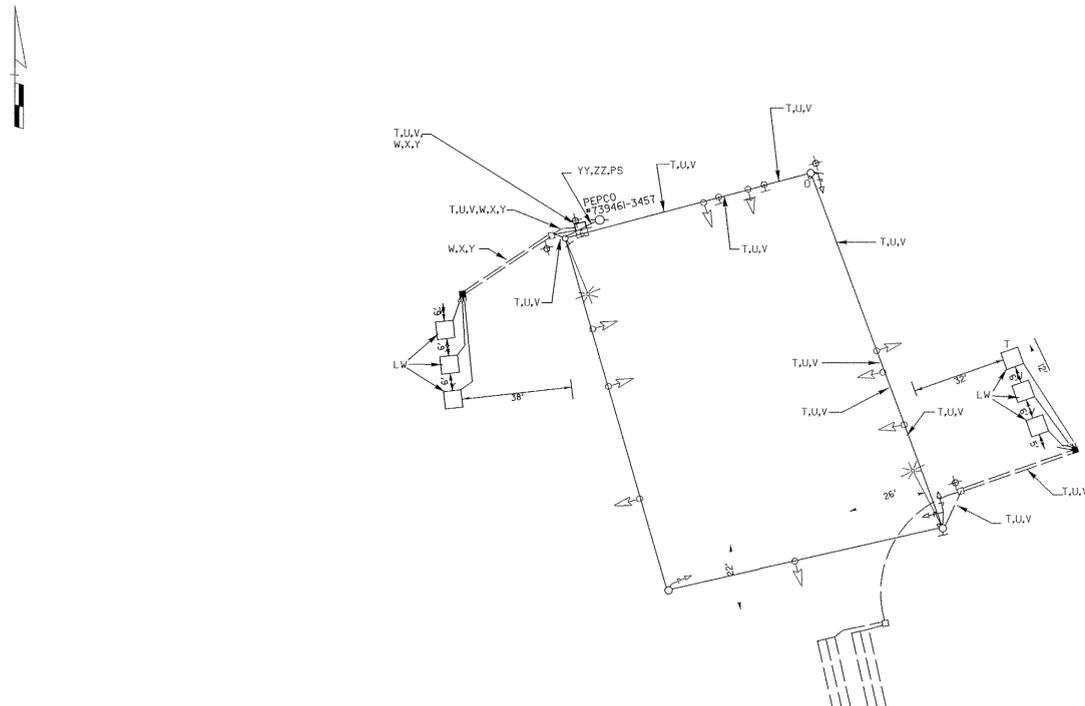
STANDARD NO. 104.00
STANDARDS NO. 104.37, 104.38 (LANE CLOSURE)
STANDARDS NO. 104.39, 104.40 (INTERSECTION FAR SIDE CLOSURE)
STANDARD NO. 104.43 (SHOULDER WORK)

EQUIPMENT LIST 'B'

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

QUANTITY	UNIT	SPECIFICATION SECTION	DESCRIPTION
900	LF	556	12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
150	LF	556	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
2	EA	611	FURNISH AND INSTALL ELECTRICAL HANDHOLE
30	LF	805	FURNISH AND INSTALL 1" LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
80	LF	805	FURNISH AND INSTALL 3" SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
1400	LF	810	FURNISH AND INSTALL ELECTRICAL CABLE- 2 CONDUCTOR (ALUMINUM SHIELDED)
1000	LF	810	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
260	LF	815	FURNISH AND INSTALL SAWCUT FOR SIGNAL (LOOP DETECTOR)

ULTIMATE WIRING DIAGRAM



WIRING KEY

T,U,V,W,X,Y - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG) ALUMINUM SHIELDED
LW - LOOP WIRE (NO. 14 AWG)
YY,ZZ - 50 PAIR COMMUNICATION CABLE, JELLY FILLED
⊕ - 3/4" x 10' GROUND ROD

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13
PHASE 2 & 6	G	G	G	G	G	G	R	R	R	DW	DW	W	W
PED CLEAR	G	G	G	G	G	G	R	R	R	DW	DW	FL/DW	FL/DW
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	DW	DW	DW	DW
PHASE 4	R	R	R	R	R	R	G	G	G	DW	DW	DW	DW
4 CHANGE	R	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW
ALT 4	R	R	R	R	R	R	G	G	G	W	W	DW	DW
PED CLEAR	R	R	R	R	R	R	G	G	G	FL/DW	FL/DW	DW	DW
4 CHANGE	R	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW
FLASHING OPERATION	FL	DARK	DARK	DARK	DARK								

TSP 53

REVISION 'A'

KCI
TECHNOLOGIES INC.
ENGINEERS AND PLANNERS
10 NORTH PARK DRIVE
HUNT VALLEY, MARYLAND
21030-1888
(410) 316-7800

REVISIONS	APPROVALS
10-00 NEW MD 28 GEOMETRICS	PROJECT MANAGER, SIGNAL DESIGN DIVISION ORIGINAL
ADDENDUM NO. 3 NEW SHEET 12/19/00	ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION ON
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION FILE
	DIRECTOR, TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
ULTIMATE
MD 28 (KEY WEST AVE) AND DARNESTOWN RD.

DRAWN BY: W.W.C./T.E.L.	F.A.P. NO.	TS NO.
CHECKED BY: JOHN C. RICE	S.H.A. NO.	2640A-GI
SCALE: NONE	COUNTY: MONTGOMERY	T.I.M.S. NO.
DATE: 6-13-85	LOG MILE: P15002878-21	DIOT

SHEET NO. _____ OF _____