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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.

VIDEO TRAFFIC DETECTION SYSTEM

A FULL-TRAFFIC-ACTUATED EIGHT-PHASE CONTROLLER WITH ~~FOUR (2) TWO-CHANNEL TIME-DELAY OUTPUT LOOP DETECTOR AMPLIFIERS~~, [4] 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 VOCIE 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. MAJID SHAKIB
ASSISTANT DISTRICT
ENGINEER-TRAFFIC
PHONE: (301) 513-7358

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

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

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

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:

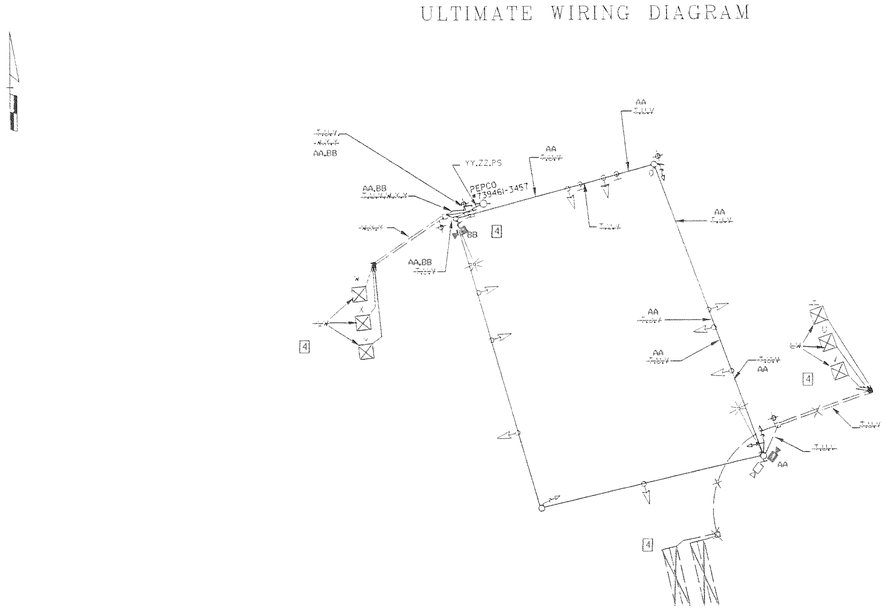
STANDARD NO. 104.00
STANDARDS NO. 104.37, 104.38 (LANE CLOSURE)
STANDARDS NO. 104.39, 104.40 (INTERSECTION FAR SIDE CLOSURE)
STANDARD NO. 104.43 (SHOULDER WORK)

EQUIPMENT LIST 'B'

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

	QUANTITY	UNIT	SPECIFICATION SECTION	DESCRIPTION
[7]	910 ~~900~~	LF	556	12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
[7]	165 ~~150~~	LF	556	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
	2	EA	311	FURNISH AND INSTALL ELECTRICAL HANDHOLE
[4]	~~30~~	~~LF~~	~~305~~	~~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
[4]	~~1400~~	~~LF~~	~~310~~	~~FURNISH AND INSTALL EUSERRIAL CABLE - 3 CONDUCTOR (ALUMINUM SHIELDED)~~
[4]	~~1000~~	~~LF~~	~~310~~	~~FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)~~
[4]	~~250~~	~~LF~~	~~315~~	~~FURNISH AND INSTALL SAWCUT FOR SIGNAL LOOP DETECTOR~~
[4]	2	EA	SP	FURNISH AND INSTALL VIDEO TRAFFIC DETECTION SYSTEM
[4]	350	LF	SP	FURNISH AND INSTALL VIDEO TRAFFIC DETECTION CABLE

ULTIMATE WIRING DIAGRAM



WIRING KEY

[4] ~~T,L,V,W,X,Y - 3-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG) ALUMINUM SHIELDED~~
[4] ~~L,X - LOOP WIRE (NO. 14 AWG)~~
YY,ZZ - 50 PAIR COMMUNICATION CABLE, JELLY FILLED
⊕ - 3/4" x 10' GROUND ROD
[4] AA,BB - VIDEO TRAFFIC DETECTION CABLE

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/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK

TSP 53

REVISION "A"

KCI TECHNOLOGIES

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

REVISIONS	APPROVALS
(B) 10-00 NE# MD 28 GEOMETRICS SHB. CONT. NO. MO 5285271	PROJECT MANAGER, SIGNAL DESIGN DIVISION: ORIGINAL
(A) ADDENDUM NO. 3 REPLACEMENT SHEET 12/19/2000	ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION: ON
[4] REDLINE NO. 4 REPLACEMENT SHEET 8/23/2001	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION: FILE
[7] REDLINE NO. 7 REPLACEMENT SHEET 2/4/2002	DIRECTOR, TRAFFIC & SAFETY
Q.X.	

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. 2640A-GI	SHEET NO. 337 OF 434
CHECKED BY: JOHN C. RICE	S.H.A. NO.			
SCALE: NONE	COUNTY:	MONTGOMERY	T.I.M.S. NO. DI07	
DATE: 6-13-85	LOG MILE:	P15002878.21		

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