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 RIFFLE FORD ROAD/SEURAT DRIVE 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, SIX (6) PHASE, SEMI-TRAFFIC-ACTUATED MODE. THERE WILL BE AN EXCLUSIVE/PERMISSIVE LEFT TURN PHASE FOR BOTH EASTBOUND AND WESTBOUND MD 28 MOVEMENTS. THE MD 28 THROUGH MOVEMENTS WILL OPERATE CONCURRENTLY. THE RIFFLE FORD ROAD/SEURAT DRIVE MOVEMENTS WILL OPERATE CONCURRENTLY. AN ALTERNATE PEDESTRIAN PHASE WILL BE PROVIDED ALONG THE WEST LEG OF MD 28. A CONCURRENT PEDESTRIAN PHASE WILL BE PROVIDED ALONG THE NORTH AND SOUTH LEGS OF RIFFLE FORD ROAD/SEURAT DRIVE.

AN EIGHT (8) PHASE, FULL-TRAFFIC-ACTUATED, SOLID STATE DIGITAL CONTROLLER WITH THREE (3), TWO-CHANNEL LOOP DETECTOR AMPLIFIERS WITH DELAY OUTPUT HOUSED IN A BASE MOUNTED CABINET EXISTS AT THIS LOCATION.

III. INTERCONNECTION

THE EXISTING 50 PAIR VOICE GRADE INTERCONNECT CABLE BETWEEN THE INTERSECTIONS OF MD 28 @ RIFFLE FORD ROAD/SEURATDRIVE AND MD 28 @ SAFEWAY DRIVEWAY IS TO BE MAINTAINED.

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.
CHEIF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

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

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

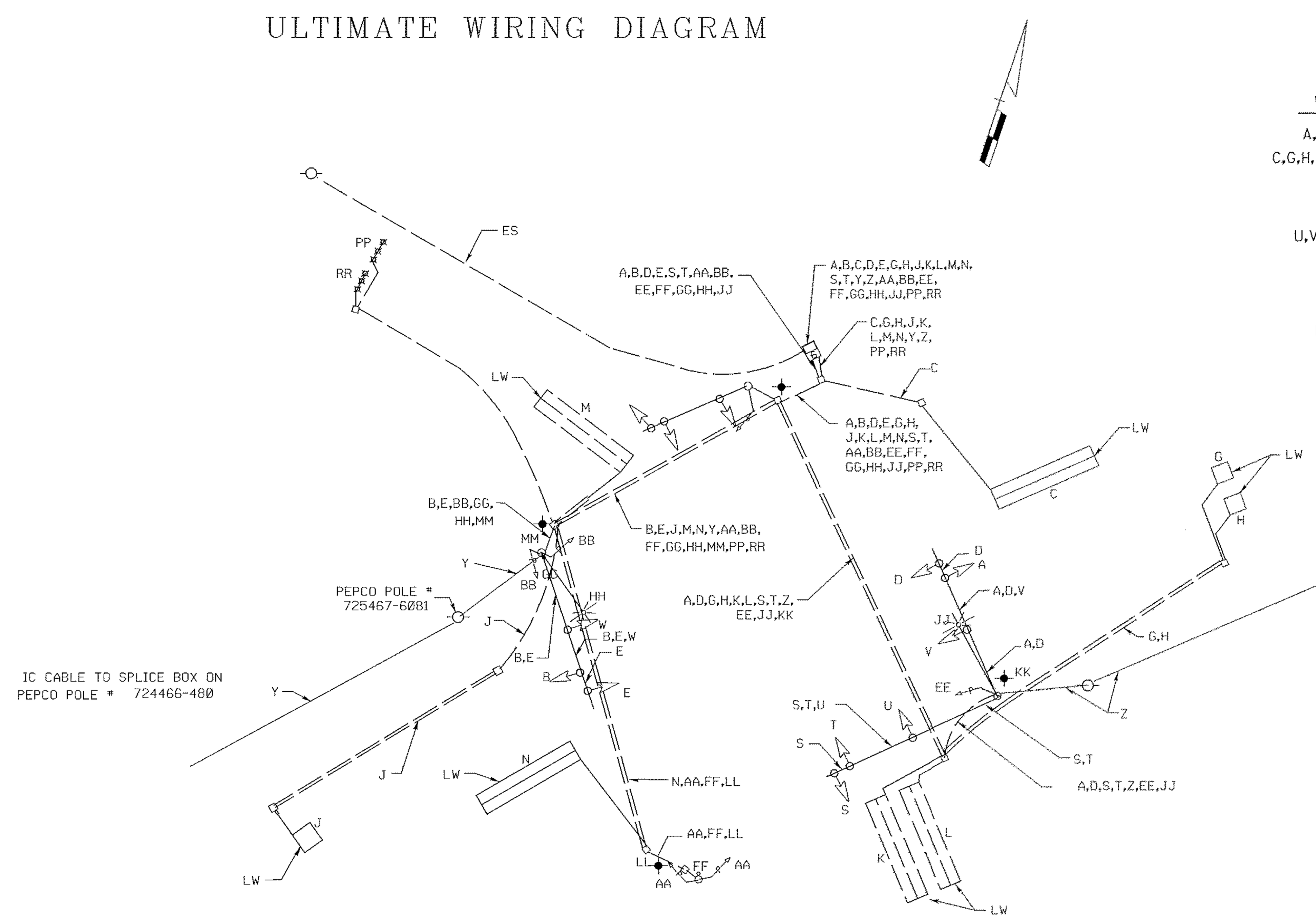
EQUIPMENT LIST 'B'

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

QUANTITY	UNIT	SPECIFICATION SECTION	DESCRIPTION
1	CY	205	TEST PIT EXCAVATION
400	LF	556	12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
120	LF	556	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
5	LF	805	FURNISH AND INSTALL 1' LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
37	LF	805	FURNISH AND INSTALL 1 ELECTRICAL CONDUIT - GALVANIZED SLEEVE
275	LF	805	FURNISH AND INSTALL 4" SCHEDULE 80 RIGID PVC CONDUIT-BORED
170	LF	805	FURNISH AND INSTALL 3' SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
1430	LF	810	FURNISH AND INSTALL ELECTRICAL CABLE- 2 CONDUCTOR (ALUMINUM SHIELDED) (NO 14 AWG)
1350	LF	810	FURNISH AND INSTALL ELECTRICAL CABLE- 7 CONDUCTOR (NO 14 AWG)
1450	LF	810	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO 14 AWG)
405	LF	815	FURNISH AND INSTALL SAWCUT FOR SIGNAL (LOOP DETECTOR)
450	LF	SP	FURNISH AND INSTALL STRANDED BARE COPPER GROUND WIRE (NO 6 AWG)
800	LF	810	FURNISH AND INSTALL ELECTRICAL CABLE- 2 CONDUCTOR (NO 14 AWG)
250	LF	810	FURNISH AND INSTALL ELECTRICAL CABLE- 3 CONDUCTOR (NO 14 AWG)
400	LF	810	FURNISH AND INSTALL ELECTRICAL CABLE- 5 CONDUCTOR (NO 14 AWG)
1	LS	SP	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
2	EA	811	FURNISH AND INSTALL ELECTRICAL HANDHOLE

△3

ULTIMATE WIRING DIAGRAM



WIRING LEGEND:

A,B,D,E,S,T — 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
C,G,H,J,K,L,M,N — 2 CONDUCTOR ELECTRICAL CABLE (ALUMINUM SHIELDED)
LW — LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 A.W.G.)
Y,Z — 50 PAIR COMMUNICATION CABLE, JELLY FILLED
U,V,W,AA,BB — 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
EE — 3 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
FF,GG — 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
HH,JJ — 2 CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.)
KK,LL,MM — STRANDED BARE COPPER GROUND WIRE (NO. 6AWG)
PP,RR — MICROLOOP PROBE LEAD IN CABLE

⌖ — 3/4" x 10' GROUND ROD
ES — EXISTING SERVICE

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
PHASE 1 & 5	←G/R	←G/R	R	←G/R	←G/R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
1 & 5 CHANGE	TO PHASE 1 & 6, OR PHASE 2 & 5, OR PHASE 2 & 6																	
PHASE 1 & 6	←G/G	←G/G	G	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
1 CHANGE	←Y/G	←Y/G	G	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 & 5	R	R	R	←G/G	←G/G	G	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
5 CHANGE	R	R	R	←Y/G	←Y/G	G	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 & 6	G	G	G	G	G	G	R	R	R	R	R	R	W	W	W	W	DW	DW
PED CLEAR	G	G	G	G	G	G	R	R	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	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
4 & 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW
ALT PHASE 4	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	W	W
PED CLEAR	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	FL/DW	FL/DW
ALT 4 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK

TSP 8

REVISIONS
Ⓐ 10-00 NEW MD 28 GEOMETRICS SHA CONT. NO. M05285271
△3 ADDENDUM NO. 3 NEW SHEET 12/19/2000
A.H.

REVISION 'A'

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

APPROVALS
PROJECT MANAGER, SIGNAL DESIGN DIVISION
ORIGINALS
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 (DARNESTOWN RD) AND RIFFLE FORD RD / SEURAT DRIVE

DRAWN BY:	S. CHERNAK	F.A.P. NO.	STPG-0005 (301) E	TS NO. 3602A-GI	SHEET NO.
CHECKED BY:	M. RUCKER	S.H.A. NO.	AW 791-479-385		
SCALE:	NONE	COUNTY:	MONTGOMERY	T.I.M.S. NO. D107	___ OF ___
DATE:	4-18-96	LOG MILE:	15002815.21		

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