PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE CONSTRUCTION OF A NEW TRAFFIC SIGNAL AT MD ROUTE 2 AND PROPOSED EAST-WEST BOULEVARD/PASADENA ROAD AND THE REMOVAL OF THE EXISTING TRAFFIC SIGNAL AT MD ROUTE 2 AND PASADENA ROAD/WEST PASADENA ROAD. IN ADDITION, INTERCONNECT SHALL BE INSTALLED ON MD ROUTE 2 BETWEEN THE PROPOSED SIGNAL AND MD 10 TO THE NORTH, AND MAGOTHY BRIDGE ROAD/EARLEIGH HEIGHTS ROAD TO THE SOUTH. MD ROUTE 2 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

I. NORMAL OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA SEVEN-PHASE, FULL-TRAFFIC ACTUATED MODE WITH MD ROUTE 2 APPROACHES RUNNING CONCURRENTLY AND EAST-WEST BOULEVARD/ PASADENA ROAD APPROACHES RUNNING CONCURRENTLY. EXCLUSIVE LEFT TURN PHASING WILL BE PROVIDED FOR MD ROUTE 2 AND EAST-WEST BOULEVARD. PASADENA ROAD LEFT TURN WILL BE PERMISSIVE ONLY. THE INTERSECTION WILL HAVE SPECIAL BUS PRE-EMPTION FOR MD ROUTE 2 NORTHBOUND AND SOUTHBOUND.

INSTALL A FULL-TRAFFIC ACTUATED, EIGHT PHASE CONTROLLER WITH FOUR (4) FOUR-CHANNEL, TIME-DELAY LOOP DETECTOR AMPLIFIERS, INTERSECTION MONITOR WITH BATTERY BACK-UP, TELEMETRY MODULE, ISOLATION BOARD, HOUSED IN A NEMA SIZE '6' BASE MOUNTED CABINET.

THE CONTACT PERSONS FOR DISTRICT #5 ARE AS FOLLOWS:

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ACTING DISTRICT ENGINEER
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MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
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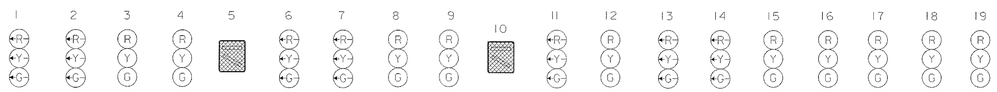
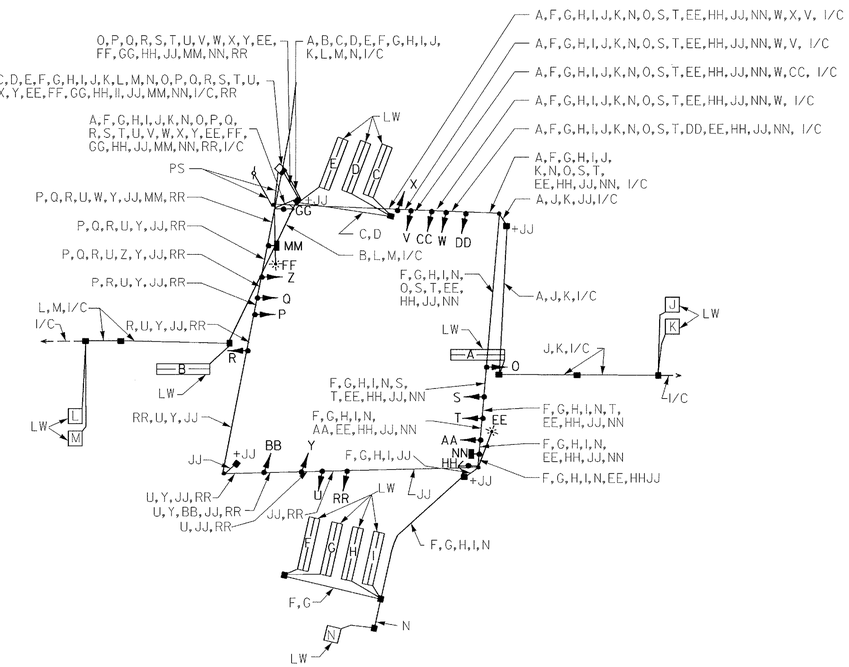
THE POWER COMPANY REPRESENTATIVE IS:
BALTIMORE GAS AND ELECTRIC COMPANY
7317 PARKWAY DRIVE SOUTH
HANOVER, MD 21076
PHONE: (410) 859-9030

PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
PHASE 1 + 5	◂G-	◂G-	R	R	DARK	◂G-	◂G-	R	R	DARK	◂R-	R	◂R-	◂R-	R	R	R	R	R
1 + 5 CHANGE	◂Y-	◂Y-	R	R	DARK	◂Y-	◂Y-	R	R	DARK	◂R-	R	◂R-	◂R-	R	R	R	R	R
PHASE 1 + 6	◂G-	◂G-	R	R	DARK	◂R-	◂R-	G	G	DARK	◂R-	R	◂R-	◂R-	R	R	R	R	R
1 + 6 CHANGE	◂Y-	◂Y-	R	R	DARK	◂R-	◂R-	Y	Y	DARK	◂R-	R	◂R-	◂R-	R	R	R	R	R
PHASE 2 + 5	◂R-	◂R-	G	G	DARK	◂G-	◂G-	R	R	DARK	◂R-	R	◂R-	◂R-	R	R	R	R	R
2 + 5 CHANGE	◂R-	◂R-	Y	Y	DARK	◂Y-	◂Y-	R	R	DARK	◂R-	R	◂R-	◂R-	R	R	R	R	R
PHASE 3 + 8	◂R-	◂R-	G	G	DARK	◂R-	◂R-	G	G	DARK	◂R-	R	◂R-	◂R-	R	R	R	R	R
3 + 8 CHANGE	◂R-	◂R-	Y	Y	DARK	◂R-	◂R-	Y	Y	DARK	◂R-	R	◂R-	◂R-	R	R	R	R	R
PHASE 3 + 8	◂R-	◂R-	R	R	DARK	◂R-	◂R-	R	R	DARK	◂G-	G	◂G-	◂G-	G	G	R	R	R
3 + 8 CHANGE	◂R-	◂R-	R	R	DARK	◂R-	◂R-	R	R	DARK	◂Y-	Y	◂Y-	◂Y-	Y	R	R	R	R
PHASE 4 + 8	◂R-	◂R-	R	R	DARK	◂R-	◂R-	R	R	DARK	◂R-	G	◂R-	◂R-	G	G	G	G	G
4 + 8 CHANGE	◂R-	◂R-	R	R	DARK	◂R-	◂R-	R	R	DARK	◂R-	Y	◂R-	◂R-	Y	Y	Y	Y	Y
FLASHING OPERATION	FL/◂R-	FL/◂R-	FL/ R	FL/ R	DARK	FL/◂R-	FL/◂R-	FL/Y	FL/Y	DARK	FL/◂R-	FL/R	FL/◂R-	FL/◂R-	FL/R	FL/R	FL/R	FL/R	FL/R
BUS PRE-EMPTION PHASE 1 — BUS PRE-EMPTION	◂R-	◂R-	R	R		◂R-	◂R-	G	G	DARK	◂R-	R	◂R-	◂R-	R	R	R	R	R
BUS PRE-EMPTION PHASE 1 — PHASE 1 CHANGE	◂R-	◂R-	R	R		◂R-	◂R-	G	G	DARK	◂R-	R	◂R-	◂R-	R	R	R	R	R
BUS PRE-EMPTION PHASE 2 — BUS PRE-EMPTION	◂R-	◂R-	G	G	DARK	◂R-	◂R-	R	R		◂R-	R	◂R-	◂R-	R	R	R	R	R
BUS PRE-EMPTION PHASE 2 — PHASE 2 CHANGE	◂R-	◂R-	G	G	DARK	◂R-	◂R-	R	R		◂R-	R	◂R-	◂R-	R	R	R	R	R

WIRING DIAGRAM



WIRING KEY

A,B,C,D,E,F,G,H,I,J,K,L,M,N,OO — 2-CONDUCTOR ELECTRICAL CABLE (ALUMINUM SHIELDED, 14 A.W.G.)

O,P,Q,R,S,T,U,V,W,X,Y,MM,NN,RR — 7-CONDUCTOR ELECTRICAL CABLE (14 A.W.G.)

Z,AA,BB,CC,DD — 5-CONDUCTOR ELECTRICAL CABLE (14 A.W.G.)

EE,FF — 2-CONDUCTOR ELECTRICAL CABLE TYPE T/C (12 A.W.G.)

GG,HH — 4-CONDUCTOR OPTICOM DETECTOR CABLE (NO. 20 A.W.G.)

II — 3-CONDUCTOR ELECTRICAL CABLE (4 A.W.G.) FOR POWER FEED

JJ — STRANDED BARE COPPER GROUND WIRE (6 A.W.G.)

I/C - 12- PAIR JELLY FILLED INTERCONNECT CABLE (19 A.W.G.)

PS - PROPOSED ELECTRICAL SERVICE

LW - 1-CONDUCTOR LOOP WIRE IN 1/4in. FLEXIBLE TUBING

+ - 3/4in. x 10 FT. GROUND ROD

SP-6

RUMMEL, KLEPPER & KAHL, LLP
CONSULTING ENGINEERS
81 MOSHER STREET
BALTIMORE, MARYLAND 21217
TEL: (410) 728-2900 FAX: (410) 383-3270

REVISIONS
(E) RECONSTRUCT TRAFFIC SIGNAL DUE TO NEW GEOMETRICS 10/99
D ADDED BUS PRE-EMPTION 6/95

APPROVALS
TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
DIRECTOR, TRAFFIC & SAFETY
ORIGINAL TITLE

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
SIGNAL PLAN FOR
MD RTE. 2 @ EAST-WEST BLVD. AND PASADENA RD.
EAST-WEST BLVD
FROM JUMPERS HOLE RD. TO 600 FT. EAST OF MD. RTE. 2

DRAWN BY:	SMH	F.A.P. NO.	SEE TITLE SHEET	TS NO. 307E	SHEET NO.
CHECKED BY:	DLA	S.H.A. NO.	N/A		
SCALE:	NO SCALE	COUNTY:	ANNE ARUNDEL	T.I.M.S. NO. C937	66 OF 78
DATE:	NOVEMBER, 1999	LOG MILE:	02000232.03		