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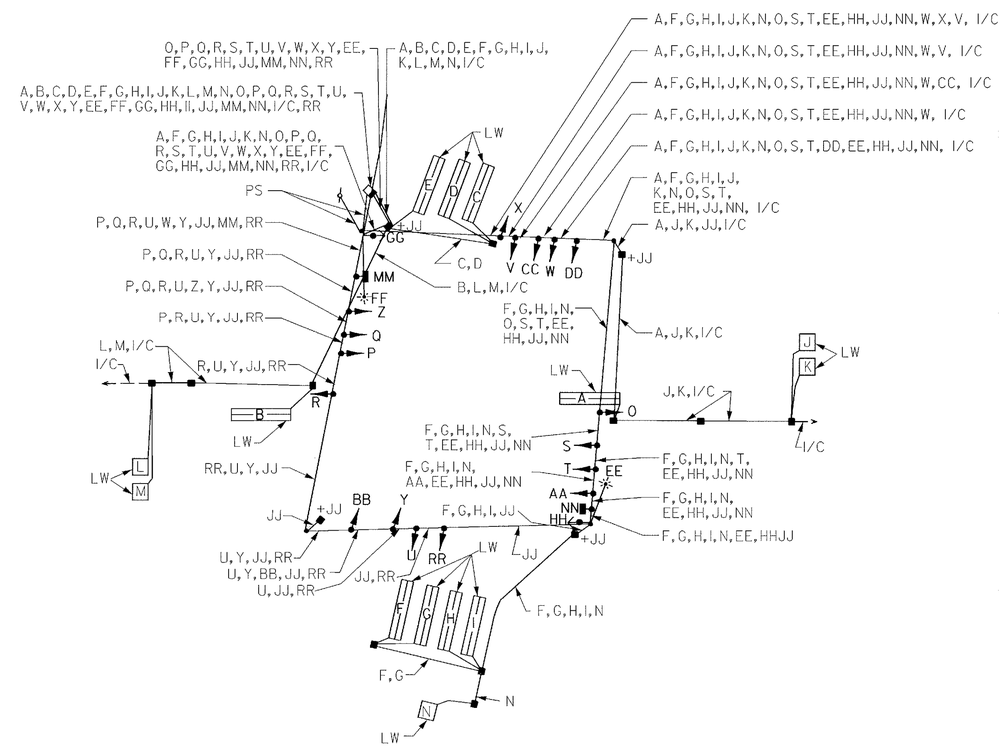
MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

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

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 ON FILE

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

DRAWN BY: SMH	F.A.P. NO. SEE TITLE SHEET		TS N
CHECKED BY: DLA / CJS	S.H.A. NO. N/A		307
SCALE: NO SCALE	COUNTY: ANNE ARUNDEL		T.I.M.S.
DATE: NOVEMBER, 1999	LOG MILE: 02000232.03		C93