

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF A TRAFFIC SIGNAL AT MD 80 AND EXISTING MD 355 IN FREDERICK COUNTY. MD 80 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

I. NORMAL OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA (8) EIGHT-PHASE FULLY-TRAFFIC-ACTUATED MODE. THERE WILL BE AN EXCLUSIVE/PERMISSIVE LEFT TURN FOR BOTH MOVEMENTS ON EXISTING MD 355. THE THROUGH MOVEMENTS ON MD 355 WILL OPERATE CONCURRENTLY. THERE WILL BE EXCLUSIVE/PERMISSIVE LEFT TURN FOR BOTH MOVEMENTS ON MD 80. THE THROUGH MOVEMENTS ON MD 80 WILL OPERATE CONCURRENTLY.

PEDESTRIAN PUSH BUTTON ACTIVATED PHASE WILL OPERATE CONCURRENTLY WITH WESTBOUND MD 80.

CONTROLLER REQUIREMENTS:

THE EXISTING CONTROLLER WILL BE USED. IT IS A FULLY TRAFFIC ACTUATED EIGHT-PHASE TRAFFIC SIGNAL CONTROLLER IN A BASE-MOUNTED SYSTEM - READY CABINET. VIDEO CAMERA DETECTION WILL BE IN PLACE FROM A PRIOR PHASE OF CONSTRUCTION.

THE CENTRAL CONTROL UNIT SHALL BE SUBMITTED TO THE SHA SIGNAL SHOP FOR PROGRAMMING.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY SHA AND INSTALLED BY SHA:

CATAGORY CODE NO.	SPEC. NO.	QUANTITY	DESCRIPTION
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NO EQUIPMENT TO BE SUPPLIED BY SHA; HOWEVER, CONTROLLER TO BE TESTED BY SHA BEFORE APPROVAL IS GRANTED FOR USE.

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR:

CATAGORY CODE NO.	SPEC. NO.	QUANTITY	DESCRIPTION
120500	104	LS	Maintenance of Traffic
800000		2 EA	Relocate Traffic Signal Head
800000		2 EA	Adjust Video Camera Detection Zone
800000		2 EA	Unbag Pedestrian Signal Head
860272	814	3 EA	Furnish and Install 12' Vehicular Traffic Signal Head Section
861107	810	143 LF	Furnish and Install Electrical Cable - 5 Conductor (No.14 AWG)

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #7 ARE AS FOLLOWS:

MR. JOHN CONCANNON
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (301) 624-8141

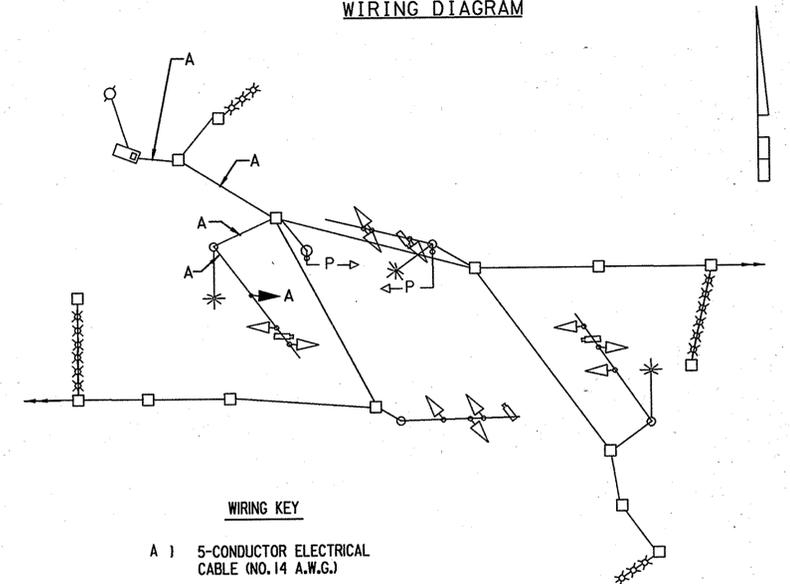
MS. ANDREA ABEND
UTILITY ENGINEER
PHONE: (301) 624-8115

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

MR. RAY JOHNSON
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (301) 624-8106

THE POWER COMPANY REPRESENTATIVE IS:
ALLEGHENY POWER
MR. BRUCE WIBBERLY
PHONE: (301) 694-4485

WIRING DIAGRAM



PHASING CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
PHASE 1+5	R/-G	R/-G	R	R/-G	R/-G	R	R	R	R	R	R	R	DW	DW
1+5 CHANGE	THE CONTROLLER MAY SKIP TO PHASES 1&6 OR 2&5 OR 2&6												DW	DW
PHASE 1+6	R	R	R	G/-Y	G/-Y	G	R	R	R	R	R	R	DW	DW
1+6 CHANGE	R	R	R	G/-Y	G/-Y	G	R	R	R	R	R	R	DW	DW
PHASE 2+5	G/-G	G/-G	G	R	R	R	R	R	R	R	R	R	WK	WK
2+5 CHANGE	G/-Y	G/-Y	G	R	R	R	R	R	R	R	R	R	WK	WK
PHASE 2+6	G	G	G	G	G	G	R	R	R	R	R	R	WK	WK
2+6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	WK	WK
PHASE PED CLEAR	G	G	G	G	G	G	R	R	R	R	R	R	FL/DW	FL/DW
PHASE 3+7	R	R	R	R	R	R	R/-G	R/-G	R	R/-G	R/-G	R	DW	DW
3+7 CHANGE	THE CONTROLLER MAY SKIP TO PHASES 3&8 OR 4&7 OR 4&8												DW	DW
PHASE 3+8	R	R	R	R	R	R	G/-G	G/-G	G	R	R	R	DW	DW
3+8 CHANGE	R	R	R	R	R	R	G/-Y	G/-Y	G	R	R	R	DW	DW
PHASE 4+7	R	R	R	R	R	R	R	R	R	G/-G	G/-G	G	DW	DW
4+7 CHANGE	R	R	R	R	R	R	R	R	R	G/-Y	G/-Y	G	DW	DW
PHASE 4+8	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW
4+8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	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



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

ULTIMATE TRAFFIC SIGNAL GENERAL INFORMATION
MD 80 AT EXISTING MD 355

DRAWN BY: MAB	F.A.P. NO. NONE	TS NO. TS-37808-G1	SHEET NO.
CHECKED BY: JDM	S.H.A. NO. NONE	T.J.M.S. NO. H063	152 OF 200
SCALE: N/A	COUNTY: FREDERICK	LOG MILE: 10080051.51	
DATE: 03/31/98			