

**PROJECT DESCRIPTION**

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 2 /MEDICAL PARKWAY AND JENNIFER ROAD IN ANNE ARUNDEL COUNTY. THE WORK IS NECESSITATED BY THE CONSTRUCTION OF A PEDESTRIAN PHASE AND SIDEWALK RAMPS ON THE EAST SIDE OF JENNIFER ROAD. JENNIFER ROAD IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

**INTERSECTION OPERATION**

THE INTERSECTION CURRENTLY OPERATES IN A NEMA SIX-PHASE, FULLY-ACTUATED MODE WITH EXCLUSIVE-PERMISSIVE LEFT TURN PHASES FOR BOTH DIRECTIONS OF JENNIFER ROAD AND SIDE STREET SPLIT PHASING. THERE WILL BE A NEW ALTERNATE PEDESTRIAN PHASE FOR THE EAST LEG OF JENNIFER ROAD. THE ALTERNATE PEDESTRIAN PHASE FOR THE WEST LEG OF JENNIFER ROAD AND THE CONCURRENT PEDESTRIAN PHASE FOR THE NORTH LEG OF MEDICAL PARKWAY WILL REMAIN.

**CONTROLLER REQUIREMENTS**

THE EXISTING EIGHT-PHASE, FULLY-ACTUATED CONTROLLER HOUSED IN A BASE MOUNTED CABINET WILL BE USED.

**APS NOTES**

TO CROSS JENNIFER ROAD — EAST LEG

- A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL BE "WAIT TO CROSS JENNIFER ROAD AT MEDICAL PARKWAY, WAIT."
- B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE

TO CROSS MEDICAL PARKWAY — NORTH LEG

- A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL BE "WAIT TO CROSS MEDICAL PARKWAY AT JENNIFER, WAIT."
- B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE

**CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:**

MRS. KIM TRAN  
ASSISTANT DISTRICT ENGINEER - TRAFFIC  
(410) 841-1019

MR. JOHN MAYS  
ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
(410) 841-1013

MR. MIKE HUBER  
UTILITY ENGINEER  
(410) 841-1039

**CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY**

MR. RICHARD DAFF, SR.  
CHIEF, TRAFFIC OPERATIONS  
(410) 787-7630

MR. EUGENE BAILEY  
TEAM LEADER SIGN OPERATIONS  
(410) 787-7676

MR. ROBERT SNYDER  
ASSISTANT DIVISION CHIEF,  
TRAFFIC OPERATIONS  
(410) 787-7631

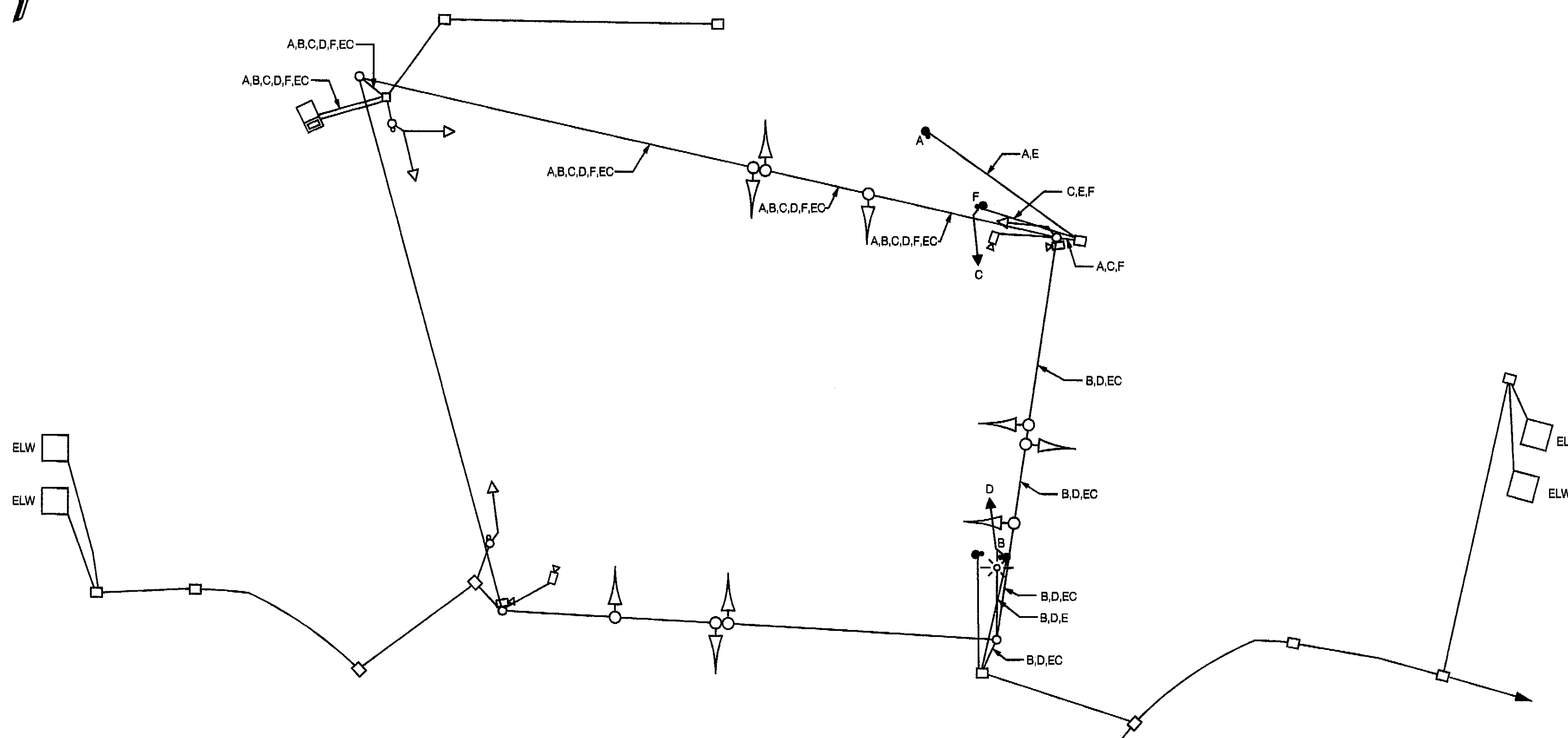
MR. MIKE STOCKER  
SUPPLY OFFICE  
SIGNAL SHOP WAREHOUSE  
(410) 787-7668

MR. ED RODENHIZER  
CHIEF - SIGNAL OPERATIONS SECTION  
(410) 787-7652

**PHASE CHART**

PHASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
PHASE 1 & 5	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
1 & 5 CHANGE	G	G	G	G	G	G	G	G	G	G	G	G	DW	DW	DW	DW	DW	DW
PHASE 1 & 6	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
1 & 6 CHANGE	G	G	G	G	G	G	G	G	G	G	G	G	DW	DW	DW	DW	DW	DW
PHASE 2 & 5	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
2 & 5 CHANGE	G	G	G	G	G	G	G	G	G	G	G	G	DW	DW	DW	DW	DW	DW
PHASE 2 & 6	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
2 & 6 CHANGE	G	G	G	G	G	G	G	G	G	G	G	G	DW	DW	DW	DW	DW	DW
PHASE 3	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
3 CHANGE	G	G	G	G	G	G	G	G	G	G	G	G	DW	DW	DW	DW	DW	DW
PHASE 3 ALT	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
3 ALT CHANGE	G	G	G	G	G	G	G	G	G	G	G	G	DW	DW	DW	DW	DW	DW
PHASE 4	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
4 CHANGE	G	G	G	G	G	G	G	G	G	G	G	G	DW	DW	DW	DW	DW	DW
PHASE 4 ALT	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
4 ALT CHANGE	G	G	G	G	G	G	G	G	G	G	G	G	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLY	FLY	FLY	FLY	FLY	FLY	FLY	FLY	DARK	DARK	DARK	DARK	DARK	DARK

**WIRING DIAGRAM**



**WIRING KEY**

A,B,F 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)  
 C,D 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)  
 E STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)  
 EC EXISTING CABLE  
 ELW EXISTING LOOP WIRE (NO. 14 A.W.G.)

**EQUIPMENT LIST "A"**

A. EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

**EQUIPMENT LIST "B"**

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

QUANTITY	DESCRIPTION
LS	MAINTENANCE OF TRAFFIC
3 CY	TEST PIT EXCAVATION
1210 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH
740 LF	12 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
165 LF	24 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
2 EA	L.E.D. 16 IN. COUNTDOWN PEDESTRIAN SIGNAL
3 EA	AUDIBLE /TACTILE PEDESTRIAN PUSHBUTTON AND SIGN
1 CY	CONCRETE FOUNDATION FOR PEDESTAL POLE
3 EA	BREAKAWAY PEDESTAL POLE
3 EA	CUT, CLEAN, GALVANIZE, AND CAP PEDESTAL POLE
3 EA	ADJUST EXISTING HANDHOLE TO GRADE
105 LF	3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
LS	REMOVE AND DISPOSE OF MATERIAL AND EQUIPMENT
2 EA	RELOCATE EXISTING GROUND MOUNTED SIGN AND SUPPORT
1040 LF	ELECTRICAL CABLE 2 - CONDUCTOR (NO. 14 A.W.G.)
760 LF	ELECTRICAL CABLE 5 - CONDUCTOR (NO. 14 A.W.G.)
105 LF	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
15 LF	4 IN. X 4 IN. WOOD SIGN SUPPORT
1 EA	W11-2 (30" X 30") SIGN - GROUND MOUNT
1 EA	W16-7P(L) (24" X 12") SIGN - GROUND MOUNT

**EQUIPMENT LIST "C"**

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

ALL SIGNAL EQUIPMENT TO BE REMOVED AND NOT RETURNED TO THE SHA SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

**SHA** STATE OF MARYLAND  
 DEPARTMENT OF TRANSPORTATION  
 STATE HIGHWAY ADMINISTRATION  
 OFFICE OF TRAFFIC & SAFETY  
 TRAFFIC ENGINEERING DESIGN DIVISION  
**MD 2 /MEDICAL PARKWAY AND JENNIFER ROAD**  
 PAROLE, MARYLAND

**TRAFFIC CONCEPTS, INC.**  
 325 Gambrills Road  
 Suite B  
 Gambrills, MD 21054  
 (410) 923-7101  
 FAX: (410) 923-6473  
 EMAIL: TRAFFIC@TRAFFIC-CONCEPTS.COM

**GENERAL INFORMATION PLAN**

SCALE	NONE	DATE	11-1-11	CONTRACT NO.	BW996M82
DESIGNED BY	T.ZAYDEL	COUNTY	ANNE ARUNDEL		
DRAWN BY	J.K. SCHMID	LOGMILE	02CJEN00.56		
CHECKED BY	K. SCHMID	T.I.M.S. NO.	K-935		
F.A.P. NO.	NA	TOD NO.			
DRAWING NO.	TS - 2430 C GI	SHEET NO.	2	OF	2