

**PROJECT DESCRIPTION**

**GENERAL**

THIS PROJECT INVOLVES INSTALLING PEDESTRIAN SIGNAL HEADS, PUSH BUTTONS, AND SIGNS FOR THE SOUTH LEG AT THE EXISTING SIGNAL AT MD 85 AND MD-SHA ENTRANCE IN FREDERICK COUNTY. THE PEDESTRIAN FACILITIES WILL BE INSTALLED ON THE EXISTING STRAIN POLES ON THE SOUTHEAST AND SOUTHWEST CORNERS OF THE INTERSECTION. MD 85 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

**INTERSECTION OPERATION**

THE INTERSECTION OPERATES IN A NEMA SIX-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH EXCLUSIVE/PERMISSIVE LEFT-TURN PHASING FOR NORTH- AND SOUTHBOUND TRAFFIC. SIDE STREET SPLIT PHASING WILL REMAIN. AN ALTERNATIVE PEDESTRIAN PHASE IS PROVIDED ACROSS THE SOUTH LEG OF MD 85. THE SIGNAL IS INTERCONNECTED TO THE SIGNAL AT MD 85 AND CRESTWOOD BOULEVARD/SHOCKELY DRIVE INTERSECTION.

**CONTROLLER REQUIREMENTS**

THE EXISTING BASE MOUNTED CONTROLLER, LOOP DETECTOR AMPLIFIERS, AND ASSOCIATED HARNESSES WILL REMAIN.

THE CONTACT PERSONS FOR DISTRICT #7 ARE AS FOLLOWS:

Mr. John Concannon  
Assistant District Engineer - Traffic  
Phone: 301-624-8140

Mr. Jim Buckalew  
Assistant District Engineer - Utility  
Phone: 410-321-2841

Mr. Dave Coyne  
Assistant District Engineer - Maintenance  
Phone: 301-624-8105

Mr. Richard L. Daff Sr.  
Chief, Traffic Operations Division  
Phone: 410-787-7630

The Power Company Representative is:  
Allegheny Power Company  
421 E. Patrick Street  
Frederick, MD 21701  
1-800-255-3443  
Phone: 410-859-9062

**EQUIPMENT LIST 'A'**

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO	QUANTITY	DESCRIPTION
NONE	NONE	NONE

**EQUIPMENT LIST 'B'**

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

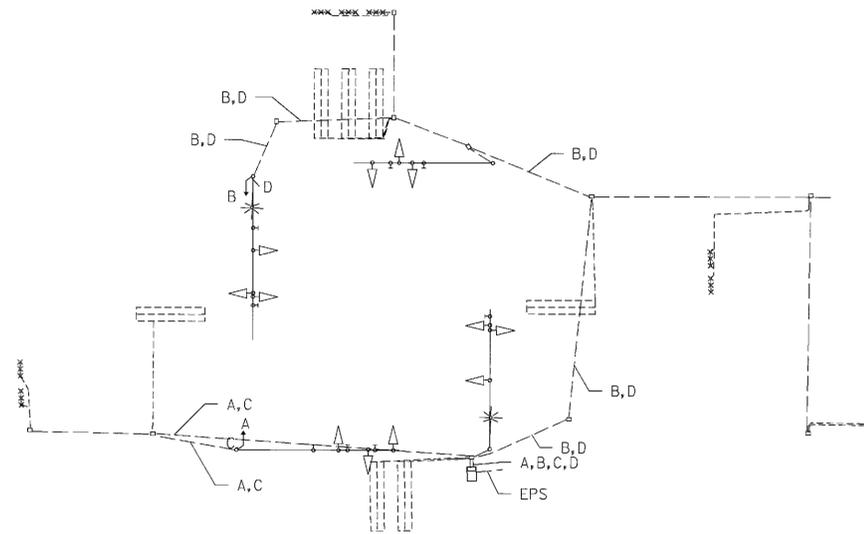
ITEM NO	QUANTITY	DESCRIPTION
1001	1 LS	MAINTENANCE OF TRAFFIC
8002	4 EA	12 INCH PEDESTRIAN SIGNAL HEAD SECTION POLE MOUNT
8077	600 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO.14 AWG)
8079	600 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO.14 AWG)

**EQUIPMENT LIST 'C'**

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

ITEM NO	QUANTITY	DESCRIPTION
ALL REMOVED MATERIALS ARE TO BECOME THE PROPERTY OF THE CONTRACTOR.		

**WIRING DIAGRAM**



- A 5-CONDUCTOR ELECTRICAL CABLE (NO.14 A.W.G.)
- B 5-CONDUCTOR ELECTRICAL CABLE (NO.14 A.W.G.)
- C 2-CONDUCTOR ELECTRICAL CABLE (NO.14 A.W.G.)
- D 2-CONDUCTOR ELECTRICAL CABLE (NO.14 A.W.G.)
- EPS EXISTING UNDERGROUND POWER SERVICE

**PHASE CHART**

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
PHASE 1 + 5	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW
PHASE 1 + 5 CHANGE	THE CONTROLLER MAY SKIP TO PHASE 1 + 6, 2 + 5 OR 2 + 6													
PHASE 1 + 6	G	G	G	R	R	R	R	R	R	R	R	R	DW	DW
PHASE 1 + 6 CHANGE	Y	Y	Y	R	R	R	R	R	R	R	R	R	DW	DW
PHASE 2 + 5	R	R	R	C	C	C	R	R	R	R	R	R	DW	DW
PHASE 2 + 5 CHANGE	R	R	R	Y	Y	Y	R	R	R	R	R	R	DW	DW
PHASE 2 + 6	G	G	G	G	G	G	R	R	R	R	R	R	DW	DW
PHASE 2 + 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW
PHASE 3	R	R	R	R	R	R	C	C	G	R	R	R	DW	DW
PHASE 3 CHANGE	R	R	R	R	R	R	Y	Y	Y	R	R	R	DW	DW
PHASE 3 ALT	R	R	R	R	R	R	C	C	G	R	R	R	W	W
PED CLEARANCE	R	R	R	R	R	R	C	C	G	R	R	R	F/DW	F/DW
PHASE 3 ALT CHANGE	R	R	R	R	R	R	Y	Y	Y	R	R	R	DW	DW
PHASE 4	R	R	R	R	R	R	R	R	C	C	G	DW	DW	
PHASE 4 CHANGE	R	R	R	R	R	R	R	R	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

CHA#: FR44059/289 TOD#: AT358-39

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION  
Office of Traffic & Safety  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 85 AND MD-SHA ENT. / WESTVIEW COMPLEX ENT.  
GENERAL INFORMATION

**STV Incorporated**  
engineers / architects / planners / scientists / construction managers  
7125 Ambassador Road Baltimore, MD 21244-2722 (410) 944-9112

DRAWN BY: R. KIPP	F.A.P. NO. N/A	TS NO. TS-4120A	SHEET NO. 2 OF 2
CHECKED BY: B. BIDDLE	S.H.A. NO. AT3585185	T.I.M.S. NO. C214	
SCALE: NONE	COUNTY: FREDERICK	LOG MILE: 10008508.58	
DATE: AUGUST 2004			