

**PROJECT DESCRIPTION**

**GENERAL**

THIS PORTION OF THE PROJECT INVOLVES CHANGES TO THE SIDE STREET LANE CONFIGURATIONS AND TRAFFIC SIGNAL MODIFICATIONS AT THE INTERSECTION OF MD 26 (LIBERTY ROAD) AT TRADING LANE/MONOCACY BOULEVARD IN FREDERICK COUNTY. THE NORTHBOUND APPROACH CONFIGURATION WILL BE UPDATED TO A LEFT, LEFT, THROUGH-LEFT, THROUGH, AND RIGHT. THE SOUTHBOUND CONFIGURATION WILL BE UPDATED TO A LEFT, THROUGH, THROUGH-RIGHT, AND RIGHT. WESTBOUND MD 26 WILL BE WIDENED TO CONSTRUCT A THIRD RECEIVING LANE. MD 26 IS ASSUMED TO RUN IN A EAST-WEST DIRECTION.

**INTERSECTION OPERATION**

THE INTERSECTION WILL OPERATE IN A NEMA SIX (6) PHASE, FULL-TRAFFIC ACTUATED MODE. THERE WILL CONTINUE TO BE AN EXCLUSIVE LEADING LAG LEFT TURN PHASE FOR THE EAST- AND WESTBOUND MOVEMENTS ON MD 26 (EASTBOUND LEAD WESTBOUND LAG). THE MD 26 THROUGH MOVEMENTS WILL CONTINUE TO OPERATE CONCURRENTLY. THE TRADING LANE/MONOCACY BOULEVARD MOVEMENTS ARE PROPOSED TO OPERATE ON A SIDE STREET SPLIT PHASE. THERE WILL CONTINUE TO BE A PEDESTRIAN ALTERNATIVE FOR CROSSING THE EAST LEG.

**CONTROLLER REQUIREMENTS**

THE EXISTING BASE MOUNTED TRAFFIC SIGNAL CONTROLLER WILL REMAIN AT THE INTERSECTION OF MD 26 AND TRADING LANE/MONOCACY BOULEVARD.

**THE CONTACT PERSONS FOR DISTRICT #7/DOTS ARE AS FOLLOWS:**

District #7  
 Mr. John Concannon  
 Assistant District Engineer - Traffic  
 Phone: 301-624-8141

Ms. Andrea Abend  
 District Utility Engineer  
 Phone: 301-624-8115

Mr. Raymond Johnson  
 Assistant District Engineer - Maintenance  
 Phone: 301-624-8106

Mr. John Huchrowski  
 Assistant District Engineer - Construction  
 Phone: 301-624-8201

**Office of Traffic & Safety**

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

Mr. Robert Snyder  
 Assistant Division Chief, Traffic Operations  
 Phone: 410-787-7630

Mr. Edward Rodenhizer  
 Chief, SHA Traffic Signal Shop  
 Phone: 410-787-7650

Mr. Eugene Bailey  
 Chief, SHA Sign Operation  
 410-787-7670

The Power Company Representative is:  
 Allegheny Power  
 800 Cabin Hill Drive  
 Greensburg, PA 15601  
 Phone: 1-800-255-3443

**EQUIPMENT LIST 'A'**

EQUIPMENT TO BE SUPPLIED BY THE SHA

CAT CODE QUANTITY DESCRIPTION

NONE

**EQUIPMENT LIST 'B'**

APPROVED SHA EQUIPMENT TO BE PURCHASED BY THE DEVELOPER AND INSTALLED BY THE CONTRACTOR. ALL EQUIPMENT IN THIS LIST SHALL HAVE CATALOG CUTS SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION.

CAT CODE QUANTITY DESCRIPTION

800000	15 SF	FURNISH AND INSTALL SHEET ALUMINUM SIGNS - MAST ARM/GROUND MOUNT
		1 EA - R3-6(1)L (30"x36")
		1 EA - R3-6(1)R (30"x36")
860284	22 EA	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION

**EQUIPMENT LIST 'C'**

EQUIPMENT TO BE PURCHASED BY THE DEVELOPER AND INSTALLED BY THE CONTRACTOR. ALL EQUIPMENT IN THIS LIST SHALL HAVE CATALOG CUTS SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION.

CAT CODE QUANTITY DESCRIPTION

120500	1 LS	MAINTENANCE OF TRAFFIC
585464	4 EA	REMOVAL OF EXISTING PERMANENT PAVEMENT MARKING LETTERS, SYMBOLS, ARROWS AND NUMBERS
585627	102 SF	WHITE PREFORMED THERMOPLASTIC PAVMENT MARKING LEGENDS AND SYMBOLS
822500	1 EA	AS BUILT FOR SHA ON CADD
861107	50 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
861108	550 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)

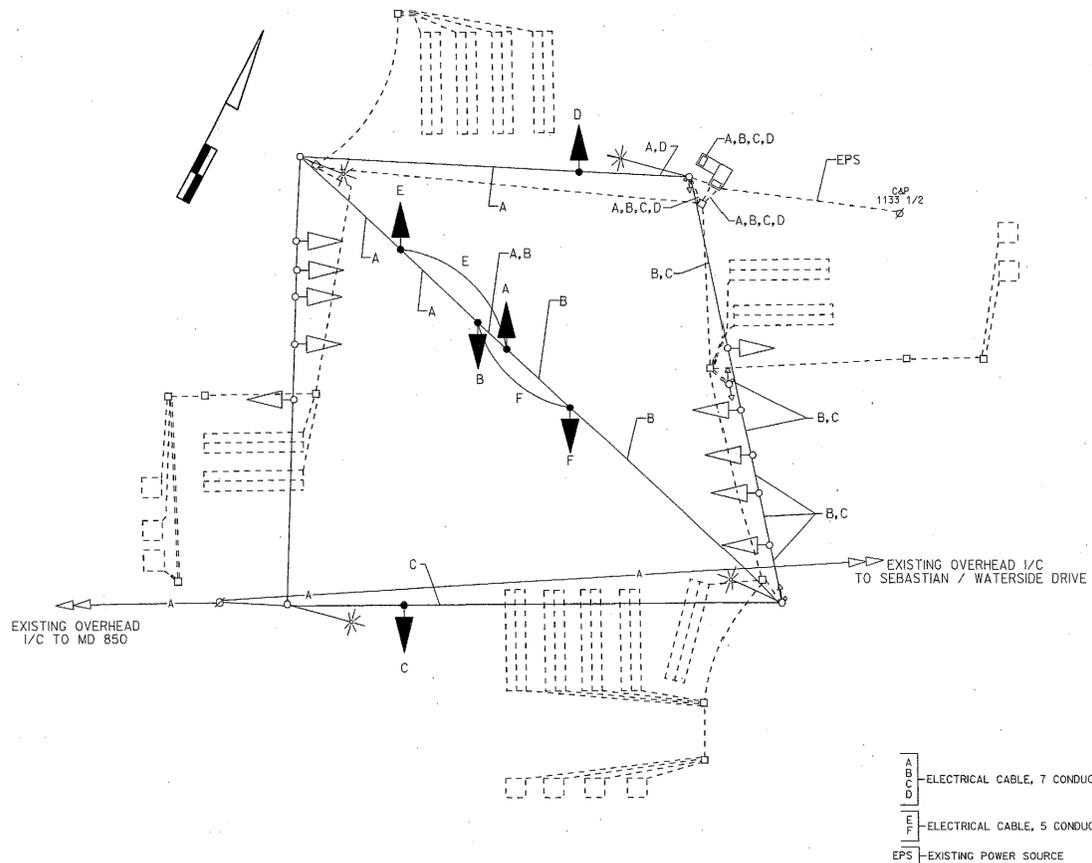
**EQUIPMENT LIST 'D'**

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

CAT CODE QUANTITY DESCRIPTION

NONE - ALL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR

**WIRING DIAGRAM**



**PHASING CHART**

	1	2	3	4	5	6	7	8	9	10	11	13	14	15	16	17	18	19	20	21
PHASE 1 & 5	←G-	←G-	←G-	G	G	←R-	←R-	←R-	R	R	R	R	R	R	R	R	DW	DW	DW	DW
1 & 5 CHANGE	←Y-	←Y-	←Y-	G	G	←R-	←R-	←R-	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 & 6	←R-	←R-	←R-	G	G	←R-	←R-	←R-	G	G	R	R	R	R	R	R	DW	DW	DW	DW
2 & 6 CHANGE	←R-	←R-	←R-	Y	Y	←R-	←R-	←R-	G	G	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 & 6	←R-	←R-	←R-	R	R	←G-	←G-	←G-	G	G	R	R	R	R	R	R	DW	DW	DW	DW
2 & 6 CHANGE	←R-	←R-	←R-	R	R	←Y-	←Y-	←Y-	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 3	←R-	←R-	←R-	R	R	←R-	←R-	←R-	R	R	G	G	G	G	R	R	DW	DW	DW	DW
3 CHANGE	←R-	←R-	←R-	R	R	←R-	←R-	←R-	R	R	Y	Y	Y	Y	R	R	DW	DW	DW	DW
PHASE 3 ALT	←R-	←R-	←R-	R	R	←R-	←R-	←R-	R	R	G	G	G	G	R	R	WK	WK	WK	WK
PED CLEARANCE	←R-	←R-	←R-	R	R	←R-	←R-	←R-	R	R	G	G	G	G	R	R	FL/DW	FL/DW	FL/DW	FL/DW
3 ALT CHANGE	←R-	←R-	←R-	R	R	←R-	←R-	←R-	R	R	Y	Y	Y	Y	R	R	DW	DW	DW	DW
PHASE 4	←R-	←R-	←R-	R	R	←R-	←R-	←R-	R	R	R	R	R	R	G	G	DW	DW	DW	DW
4 CHANGE	←R-	←R-	←R-	R	R	←R-	←R-	←R-	R	R	R	R	R	R	Y	Y	DW	DW	DW	DW
FLASHING OPERATION	FL/←R-	FL/←R-	FL/←R-	FL/Y	FL/Y	FL/←R-	FL/←R-	FL/←R-	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK

**LENHART TRAFFIC CONSULTING**  
 TRAFFIC ENGINEERING & TRANSPORTATION PLANNING  
 331 Redwood Grove Court Millersville, Maryland 21108  
 Tel: (410) 987-3888 Fax: (443) 782-2288

**NOTE:**  
 THESE PLANS ARE APPROVED FOR CONSTRUCTION FOR A PERIOD OF ONE (1) YEAR. SHOULD CONSTRUCTION NOT BEGIN WITHIN THIS TIME FRAME, THESE PLANS SHALL BE NULL AND VOID WITH A RE-REVIEW REQUIRED FROM THE TRAFFIC ENGINEERING DESIGN DIVISION.  
 EA/PD PERMIT NO. \_\_\_\_\_

**SHA** STATE OF MARYLAND  
 DEPARTMENT OF TRANSPORTATION  
 STATE HIGHWAY ADMINISTRATION  
 OFFICE OF TRAFFIC & SAFETY  
 TRAFFIC ENGINEERING DESIGN DIVISION  
 MD 26 (LIBERTY ROAD) AT  
 MONOCACY BOULEVARD

**GENERAL INFORMATION**

SCALE NONE DATE NOVEMBER 2008 CONTRACT NO. BW996M82

DESIGNED BY MML COUNTY FREDERICK  
 DRAWN BY MML LOGMILE 100026001.08  
 CHECKED BY MML T. I. M. S. NO. K017  
 F.A.P. NO. TOD NO.

DRAWING NO. TS-3367-C-G1 OF SHEET NO. OF