

**PROJECT DESCRIPTION**

**GENERAL**

THIS PROJECT INVOLVES THE MODIFICATION OF THE TRAFFIC SIGNAL AT THE INTERSECTION OF MD 228 (BERRY ROAD) AT WESTERN PARKWAY IN CHARLES COUNTY. THE MODIFICATION INCLUDES THE INSTALLATION OF VIDEO DETECTION AND NON-INVASIVE PROBES.

MD 228 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

**INTERSECTION OPERATION**

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA SIX PHASE, FULLY-ACTUATED TRAFFIC MODE. THE EXISTING MAINLINE EXCLUSIVE LEFT TURN, AND SIDE STREET SPLIT PHASING WILL REMAIN. THE EXISTING NORTHBOUND PRE-EMPTION PHASE WILL ALSO REMAIN.

**CONTROLLER REQUIREMENTS**

THE EXISTING BASE MOUNTED CABINET, CONTROLLER, EQUIPMENT AND ASSOCIATED HARNESSES SHALL REMAIN. THE SHA SIGNAL SHOP WILL INSTALL ONE (1) VIDEO DETECTION INTERFACE EQUIPMENT: 5-8 CAMERAS WITHIN THE CABINET.

THE CONTACT PERSONS FOR DISTRICT #5 / OOTS ARE AS FOLLOWS:

District #5

Ms. Kimberly Tran  
Assistant District Engineer - Traffic  
Phone: 410-841-1013

Mr. Mike Huber  
District Utility Engineer  
Phone: 410-841-1005

Mr. John Mays  
Assistant District Engineer - Maintenance  
Phone: 410-841-1013

Mr. James Folden  
Assistant District Engineer - Construction  
Phone: 410-841-1031

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  
410-787-7630

Mr. Edward Rodenhizer  
Team Leader Signal Operations  
Phone: 410-787-7650

Mr. Eugene Bailey  
Team Leader Sign Operations  
410-787-7670

The Power Company Representative is:  
Southern Maryland Electric Cooperative  
P.O. Box 1937  
Hughesville, MD 20637  
Phone: 1-888-440-3311

**EQUIPMENT LIST 'A'**

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO.	QUANTITY	DESCRIPTION
9087	1 EA	[UPDATED] VIDEO DETECTION INTERFACE EQUIPMENT: 5-8 CAMERAS
9570	13 SF	[UPDATED] SHEET ALUMINUM GROUND MOUNTED SIGN:
		1 EA - M4-5 (24 IN. x 12 IN.)
		1 EA - M1-4 (30 IN. x 24 IN.)
		1 EA - M1-5 (24 IN. x 24 IN.)
		1 EA - M6-2 (15 IN. x 21 IN.)
9571	10 SF	[UPDATED] SHEET ALUMINUM MAST ARM / POLE MOUNTED SIGN
		1 EA - M1-5(6) (30 IN. x 48 IN.) *EAST, MD 228, RIGHT ARROW

**EQUIPMENT LIST 'B'**

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
6002	30 SF	5 INCH CONCRETE SIDEWALK
8017	1 EA	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8026	185 LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED
8028	100 LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8033	19 LF	WOOD SIGN SUPPORTS 4 INCH x 6 INCH
8044	4 EA	NONINVASIVE DETECTOR, 1000 FOOT LEAD IN CABLE
8045	4 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8046	13 SF	INSTALL GROUND MOUNTED SIGN
8047	10 SF	INSTALL OVERHEAD SIGN
8048	6 EA	VIDEO DETECTION CAMERA AND CABLE UP TO 500 FT.
8053	1 EA	RELOCATE EXISTING SIGNAL HEAD

**EQUIPMENT LIST 'C'**

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

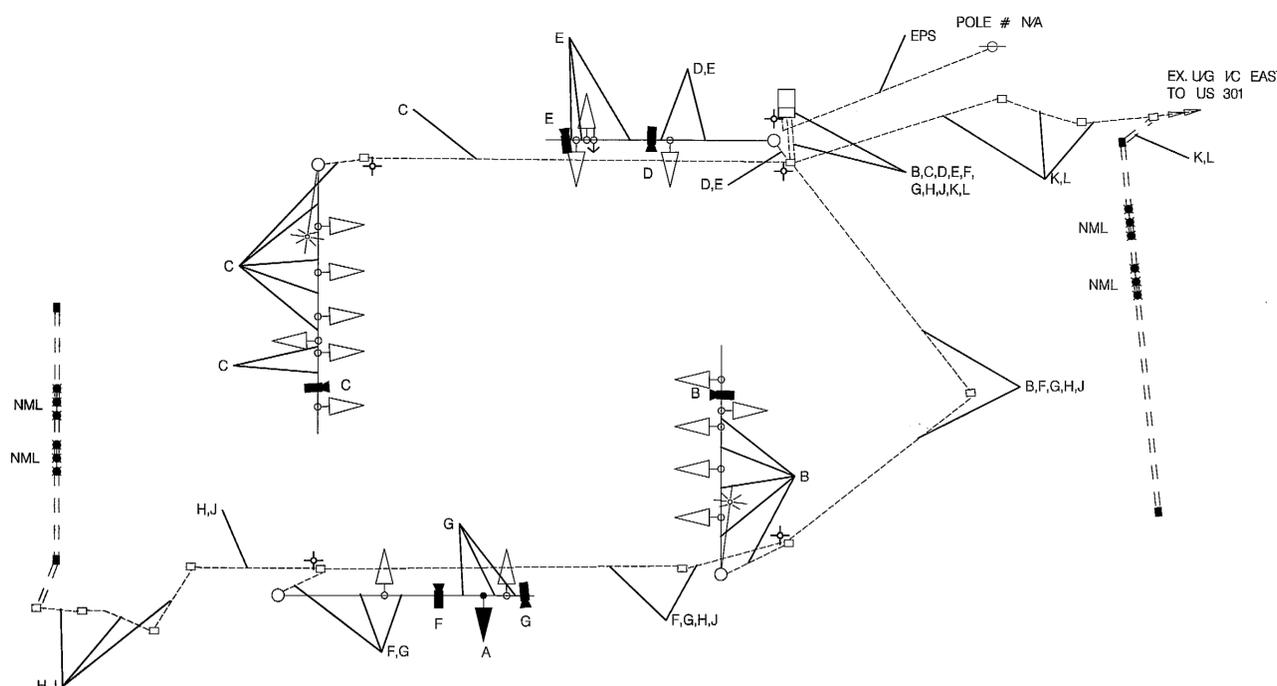
ITEM NO. QUANTITY DESCRIPTION

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

**PHASE CHART**

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
	(R)	(R)	(Y)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	
PHASE 1 AND 5	+G-	+G-	R	R	R	+G-	+G-	+G-	R	R	R	R	R	R	R	R	R	
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6																		
PHASE 1 AND 6	+G-	+G-	G	G	G	+R-	+R-	+R-	R	R	R	R	R	R	R	R	R	
1 AND 6 CHANGE	+Y-	+Y-	G	G	G	+R-	+R-	+R-	R	R	R	R	R	R	R	R	R	
PHASE 2 AND 5	+R-	+R-	R	R	R	+G-	+G-	+G-	G	G	G	R	R	R	R	R	R	
2 AND 5 CHANGE	+R-	+R-	R	R	R	+Y-	+Y-	+Y-	G	G	G	R	R	R	R	R	R	
PHASE 2 AND 6	+R-	+R-	G	G	G	+R-	+R-	+R-	G	G	G	R	R	R	R	R	R	
2 AND 6 CHANGE	+R-	+R-	Y	Y	Y	+R-	+R-	+R-	Y	Y	Y	R	R	R	R	R	R	
PHASE 3	+R-	+R-	R	R	R	+R-	+R-	+R-	R	R	R	R	R	R	G+G	G+G	G	
PHASE 3 CHANGE	+R-	+R-	R	R	R	+R-	+R-	+R-	R	R	R	R	R	R	Y	Y	Y	
PHASE 4	+R-	+R-	R	R	R	+R-	+R-	+R-	R	R	R	G+G	G+G	G	R	R	R	
PHASE 4 CHANGE	+R-	+R-	R	R	R	+R-	+R-	+R-	R	R	R	Y	Y	Y	R	R	R	
PHASE 4 PRE-EMPTION	+R-	+R-	R	R	R	+R-	+R-	+R-	R	R	R	G+G	G+G	G	R	R	R	
PRE-EMPTION CHANGE	+R-	+R-	R	R	R	+R-	+R-	+R-	R	R	R	Y	Y	Y	R	R	R	
FLASHING OPERATION	FL/RA	FL/RA	FL/Y	FL/Y	FL/Y	FL/RA	FL/RA	FL/RA	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	

**WIRING DIAGRAM**



- A** - USE EXISTING CABLE
- B** - CONTROL CABLE - 250 FT., VIDEO DETECTION CAMERA TO CONTROLLER
- C** - CONTROL CABLE - 500 FT., VIDEO DETECTION CAMERA TO CONTROLLER
- D** - NON-INVASIVE MICROLOOP PROBE LEAD IN CABLE, 1000 FOOT
- E** - EXISTING POWER SERVICE
- F** - EXISTING GROUND ROD - 3/4 IN. DIAMETER x 10 FT. LENGTH
- G** - CONTROL CABLE - 500 FT., VIDEO DETECTION CAMERA TO CONTROLLER
- H** - NON-INVASIVE MICROLOOP PROBE LEAD IN CABLE, 1000 FOOT
- J** - EXISTING POWER SERVICE
- K** - NON-INVASIVE MICROLOOP PROBE SET
- L** - EXISTING GROUND ROD - 3/4 IN. DIAMETER x 10 FT. LENGTH

**STV**  
STV Incorporated  
7125 Ambassador Road, Suite 200  
Baltimore, MD 21244  
www.stvine.com

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 228 (BERRY ROAD) & WESTERN PARKWAY  
WALDORF, MARYLAND

**GENERAL INFORMATION**

SCALE NONE ADVERTISED DATE 1/2010 CONTRACT NO. XX4485185

DESIGNED BY MCG COUNTY CHARLES  
DRAWN BY MCG LOGMILE 08022805.07  
CHECKED BY BAB TMS NO. K084  
F.A.P. NO. TOD NO.

TS NO. 2625D-G1 DRAWING **SG-02** OF 02 SHEET NO. 02 OF 02