

PROJECT DESCRIPTION

GENERAL
THIS PROJECT INVOLVES THE INSTALLATION OF A NEW TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 5 (LEONARDTOWN ROAD) AND GALLANT GREEN ROAD IN CHARLES COUNTY. A HAZARD IDENTIFICATION BEACON (HIB) WILL BE INSTALLED SOUTH OF GALLANT GREEN ROAD PRIOR TO THE NEW TRAFFIC SIGNAL. MD 5 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION
THE INTERSECTION WILL OPERATE IN A NEMA THREE-PHASE, FULLY TRAFFIC-ACTUATED MODE WITH EXCLUSIVE/FLASHING RED PHASING FOR SOUTHBOUND MD 5.

CONTROLLER REQUIREMENTS
INSTALL NEMA SIZE 'S' BASE MOUNTED CABINET WITH ASC III CONTROLLER AND ASSOCIATED HARNESSSES. THE SHA SIGNAL SHOP WILL INSTALL ONE (1) VIDEO DETECTION INTERFACE; 1-8 CAMERAS, ONE (1) 4 CHANNEL DETECTOR AMPLIFIER, BATTERY BACK-UP AND ALL OTHER ASSOCIATED EQUIPMENT.
INSTALL TYPE 'G' POLE MOUNTED CABINET WITH A 2-CIRCUIT FLASHER FOR THE HAZARD IDENTIFICATION BEACON.

PHONE DROP
THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE DROP LINE INSTALLATION. THE CONTRACTOR IS TO NOTIFY MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER.

THE CONTACT PERSONS FOR DISTRICT #5 ARE AS FOLLOWS:

Ms. Kimberly Tran
Assistant District Engineer - Traffic
Phone: 410-841-1019

Mr. Mike Huber
District Utility Engineer
Phone: 410-841-1039

Mr. Joe Geckle
Assistant District Engineer - Maintenance
Phone: 410-841-1013

OFFICE OF TRAFFIC AND SAFETY:

Mr. Avijit Maji
Chief, Traffic Operations Division
Phone: 410-787-7630

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

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

Mr. Eugene Bailey
Chief Sign Operations
410-787-7670

The Power Company Inc.
SMECO
901 Dorcas Beach Road
P.O. Box 37
Prince Frederick, Maryland
Phone: 410-535-4400

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO	QUANTITY	DESCRIPTION
9000	1 EA	CONTROLLER CABINET TYPE 'S' WITH VIDEO DETECTION INTERFACE EQUIPMENT: 1-8 CAMERAS
9000	1 EA	UNINTERRUPTABLE POWER SUPPLY AND EQUIPMENT
9000	1 EA	ASC III CONTROLLER
9012	1 EA	2 CIRCUIT FLASHER
9037	1 EA	CABINET 'G' TYPE POLE MOUNT
9570	14 SF	SHEET ALUMINUM GROUND MOUNTED SIGN 1 EA - R4-8b (24 IN. X 30 IN.) 1 EA - R1-2 (36 IN. X 36 IN.)
9571	69-SF 57 SF	SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN 1 EA - M1-5(4) (78 IN. X 36 IN.) LEONARDTOWN RD, NORTH, MD 5, SOUTH 1 EA - M1-5(6) (24 IN. X 48 IN.) NORTH, MD 5, RIGHT ARROW' 1 EA - R10-12(2)MOD (48 IN. X 36 IN.) 1 EA - D-3(1) (96 IN. X 16 IN.) - DUAL FACED 'GALLANT GREEN RD' 1 EA - W3-3 (48 IN. X 48 IN.) 1 EA - D-3(1) (96 IN. X 16 IN.) F.Y. 'GALLANT GREEN RD'

EQUIPMENT LIST 'B'

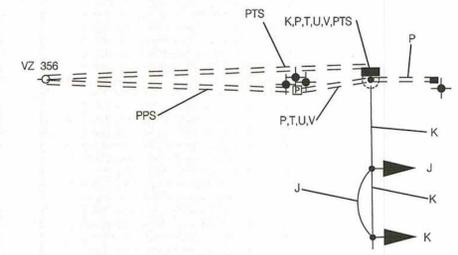
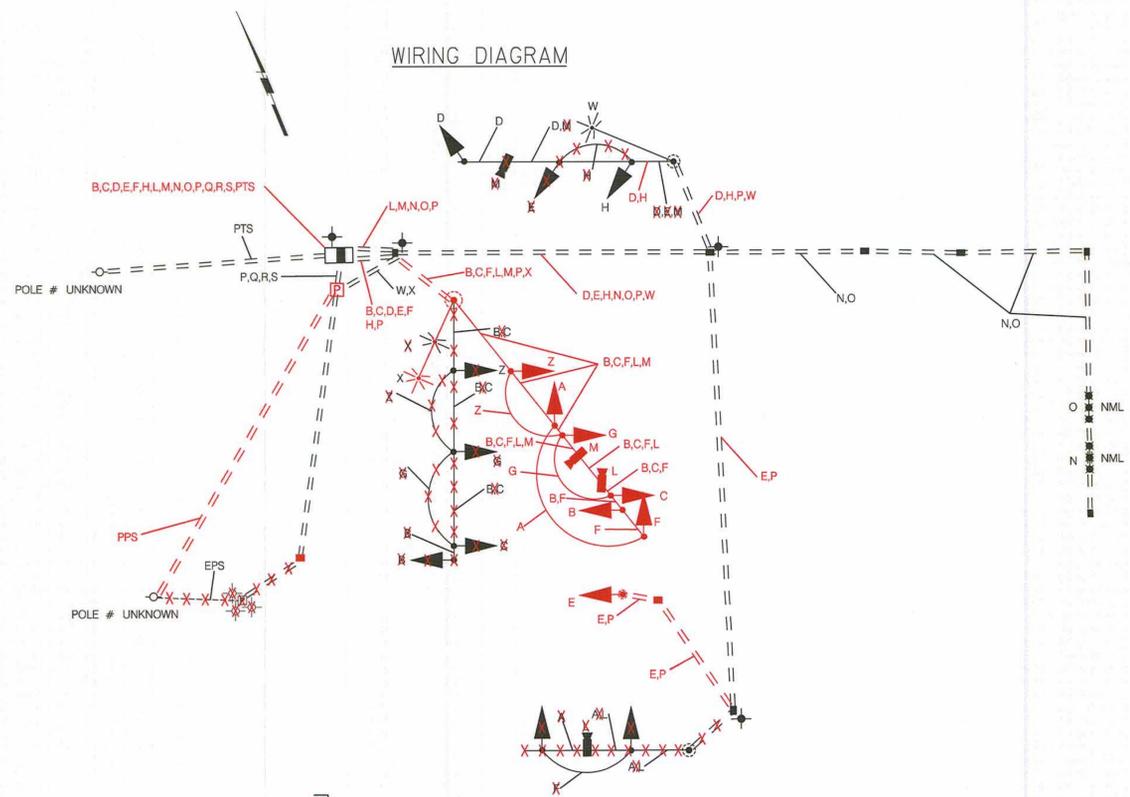
EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO	QUANTITY	DESCRIPTION
1001	3 EA	MAINTENANCE OF TRAFFIC
2001	13 CY	CLASS 2 EXCAVATION
2002	5 CY	TEST PIT EXCAVATION
5002	285 LF	5 INCH HEAT APPLIED WHITE OR YELLOW PERMANENT PAVEMENT MARKINGS
5003	115 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS
5005	95 LF	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
6001	125 LF	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
8001	26 EA	12 INCH LED SIGNAL HEAD SECTION
8007	2 EA	ANY SIZE LIGHTING ARM ON SIGNAL POLE WITH 250 WATT HPS LAMP & LUMINAIRE
8009	1 EA	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8011	1 EA	CONDUIT BEND IN EXISTING FOUNDATION BASE (ANY SIZE)
8012	2 EA	EMBEDDED METERED SERVICE PEDESTAL
8017	1 EA	MAST ARM POLE & 38 FT MAST ARM ANY 'T' DIMENSION
8018	1 EA	MAST ARM POLE & 50 FT MAST ARM ANY 'T' DIMENSION
8019	1 EA	MAST ARM POLE & 60 FT MAST ARM ANY 'T' DIMENSION
8020	1 EA	MAST ARM POLE & 70 FT MAST ARM ANY 'T' DIMENSION
8022	2 EA	NONINVASIVE DETECTOR (ANY LENGTH) LEAD-IN CABLE UP TO 1000'
8023	1 EA	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8028	2 EA	VIDEO DETECTION CAMERA AND CABLE ANY LENGTH
8034	590 LF	ELECTRICAL CABLE - 2-CONDUCTOR (NO. 12 AWG) TYPE T/C
8036	653 LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED
8038	1,050 LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8039	50 LF	WOOD SIGN SUPPORTS UP TO 4 INCH X 6 INCH
8040	71 SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8042	585 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8044	1 EA	ELECTRICAL UTILITY SERVICE EQUIPMENT 120/240 VOLTS 60 AMPS
8045	532 LF	ELECTRICAL CABLE 1-CONDUCTOR NO. 8 AWG-THHN/THWN
8046	9 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8051	1 EA	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
8055	111 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8056	811 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
8061	1 EA	INSTALL CONTROLLER AND CABINET - POLE MOUNT
8062	1 EA	INSTALL CONTROLLER AND CABINET - BASE MOUNT (ANY SIZE)
8063-A	1 EA	F & I LED OPTICALLY PROGRAMMABLE SIGNAL (3 SECTION R,Y,G)
8064-A	2 EA	F & I LED LUMINAIRES AND LAMPS

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



PROPOSED SIGNAL EQUIPMENT DETAIL NOT TO SCALE

PHASE CHART	1	2	3	4	5	6	7	8	9	10	11
PHASE 1	R	R	R	+G	+G	G	R	R	R	FLY	FLY
PHASE 1 CHANGE	R	R	R	+Y	+Y	Y	R	R	R	FLY	FLY
PHASE 2	G	G	G	FLAR	FLAR	FLR	R	R	R	FLY	FLY
PHASE 2 CHANGE	Y	Y	Y	FLAR	FLAR	FLR	R	R	R	FLY	FLY
PHASE 4	R	R	R	+R	+R	R	G	G	G	FLY	FLY
PHASE 4 CHANGE	R	R	R	+R	+R	R	Y	Y	Y	FLY	FLY
FLASHING OPERATION	FLY	FLY	FLY	FLAR	FLAR	FLR	FLR	FLR	FLR	DARK	DARK

- B] ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
- A] ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
- T] CONTROL CABLE - VIDEO DETECTION CAMERA TO CONTROLLER
- N] NONINVASIVE MICRO LOOP DETECTOR LEAD-IN CABLE
- P] NO. 6 STRANDED BARE COPPER GROUND WIRE
- Q] ELECTRICAL CABLE 1- CONDUCTOR NO. 8 AWG-THHN/THWN
- W] ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG) TC
- PPS] PROPOSED POWER SERVICE (ELECTRICAL CABLE 1- CONDUCTOR NO. 8-THHN/THWN)
- EPS] EXISTING POWER SERVICE
- PTS] PROPOSED TELEPHONE SERVICE TO BE INSTALLED BY OTHERS
- NML] NONINVASIVE MICRO LOOP PROBE SET
- GR] PROPOSED GROUND ROD - 3/4 IN. DIAMETER X 10 FOOT LENGTH
- EXGR] EXISTING GROUND ROD - 3/4 IN. DIAMETER X 10 FOOT LENGTH
- MP] PROPOSED METERED SERVICE PEDESTAL

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Baltimore, MD 21244
www.stvinc.com

1 REDLINE REVISION NO. 1 DECEMBER 2012
SHA NO. XX6475185

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 5 (LEONARDTOWN ROAD) AND
GALLANT GREEN ROAD
HUGHESVILLE, MARYLAND

GENERAL INFORMATION

SCALE NONE DATE 09/13/2012 CONTRACT NO. XX6475185

DESIGNED BY EMP OF STV COUNTY CHARLES
DRAWN BY EMP OF STV LOGMILE 08000503.16
CHECKED BY MTS OF STV TMS NO. 1.168
F.A.P. NO. TOD NO.

TS NO. 4832 DRAWING SG-02 OF 02 SHEET NO. 02 OF 02

PLOTTED: Wednesday, January 02, 2013 AT 11:54 AM
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