

PROJECT DESCRIPTION

GENERAL
THIS PROJECT INVOLVES THE INSTALLATION OF ACCESSIBLE PEDESTRIAN SIGNALS (APS), COUNTDOWN PEDESTRIAN SIGNALS (CPS), AND ADA RAMP MODIFICATIONS FOR THE NORTH AND EAST LEGS AT THE INTERSECTION OF MD 174 (QUARTERFIELD ROAD) AND PAMELA ROAD / LANDMARK DRIVE IN ANNE ARUNDEL COUNTY.

MD 174 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION
THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA FIVE-PHASE, FULLY-ACTUATED MODE WITH AN EXCLUSIVE/PERMISSIVE LEFT TURN PHASE FOR EASTBOUND MD 174. MAINLINE AND ALTERNATIVE SIDE STREET PEDESTRIAN PHASES ARE PROPOSED.

CONTROLLER REQUIREMENTS
THE EXISTING BASE MOUNTED CABINET, CONTROLLER AND ASSOCIATED HARNESSES SHALL REMAIN. THE SHA SIGNAL SHOP SHALL INSTALL ONE (1) 2 WIRE CENTRAL CONTROL UNIT WITHIN THE CABINET.

APS WILL FUNCTION AS FOLLOWS:

TO CROSS LANDMARK DRIVE

1 A. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS LANDMARK AT QUARTERFIELD, **CROSSWALK ANGLES RIGHT, WAIT**".

B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

TO CROSS QUARTERFIELD ROAD

1 A. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS QUARTERFIELD AT LANDMARK OR PAMELA, **CROSSWALK ANGLES RIGHT, WAIT**".

B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

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. John S. Mays
Assistant District Engineer - Maintenance
Phone: 410-841-103

OFFICE OF TRAFFIC AND 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
Chief Sign Operations
Phone: 410-787-7650

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

The Power Company is:
Baltimore Gas and Electric Company
7317 Parkway Dr. South
Hanover, MD 21076
Phone: 410-859-9062

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO	QUANTITY	DESCRIPTION
9571	4 SF	SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN: 2 EA - R10-3(I) (9 IN. X 15 IN.) *PUSH BUTTON TO CROSS LANDMARK DRIVE*
		2 EA - R10-3(I) (9 IN. X 15 IN.) *PUSH BUTTON TO CROSS QUARTERFIELD ROAD*

EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

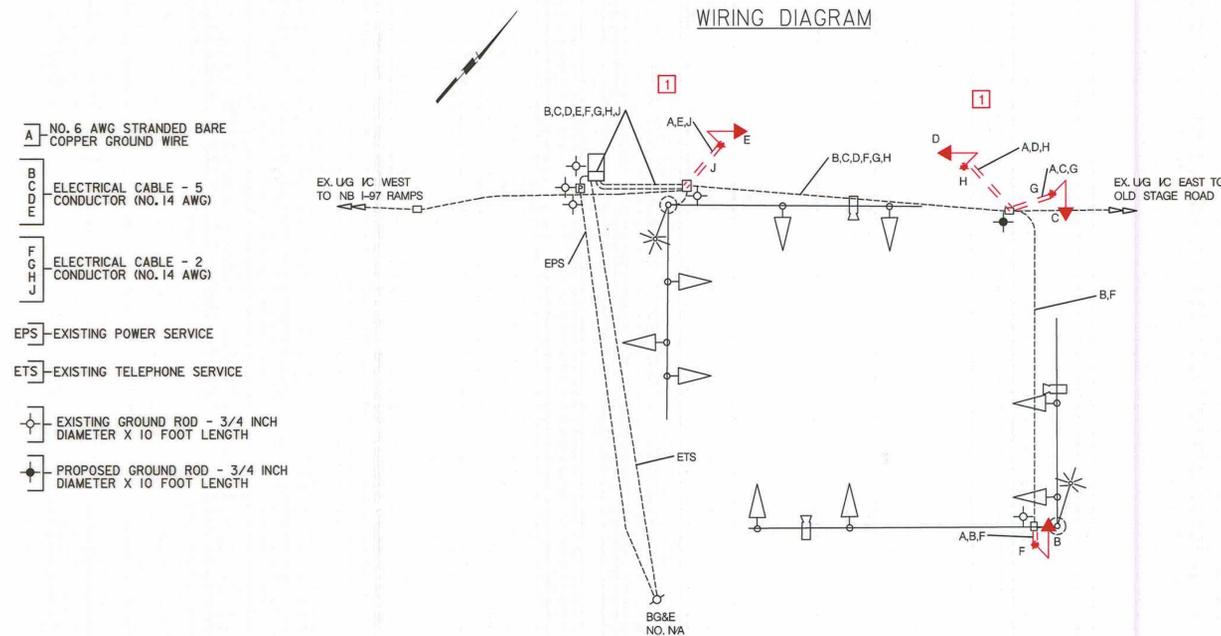
ITEM NO	QUANTITY	DESCRIPTION
NONE		ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO	QUANTITY	DESCRIPTION
1001	2 EA	MAINTENANCE OF TRAFFIC
2001	2 CY	CLASS 2 EXCAVATION
2002	2 CY	TEST PIT EXCAVATION
5003	85 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS
5004	245 LF	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
5005	40 LF	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
1 6001	45 175 LF	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
1 6002	280 740 SF	5 INCH CONCRETE SIDEWALK
1 6003	20 40 SF	DETECTABLE WARNING SURFACE FOR CURB RAMPS
8002	1 EA	2-WIRE CENTRAL CONTROL UNIT
8008	4 EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
8009	4 EA	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8015	4 EA	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD
8023	1 EA	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8038	50 LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
8040	4 SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8042	50 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8053	520 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8055	540 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

WIRING DIAGRAM



PHASE CHART

PHASE CHART	1	2	3	4	5	6	7	8	9	10	11	12	13
PHASE 1 & 6	G	G	G	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 1 CHANGE	Y	Y	Y	G	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 & 6	G	G	G	G	G	R	R	R	R	WK	WK	DW	DW
PED CLEARANCE	G	G	G	G	G	R	R	R	R	FLDW	FLDW	DW	DW
PHASE 2 & 6 CHANGE	Y	Y	Y	Y	Y	R	R	R	R	DW	DW	DW	DW
PHASE 4 & 8	R	R	R	R	R	G	G	G	G	DW	DW	DW	DW
PHASE 4 & 8 CHANGE	R	R	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW
PHASE 4 & 8 ALT	R	R	R	R	R	G	G	G	G	DW	DW	WK	WK
PED CLEARANCE	R	R	R	R	R	G	G	G	G	DW	DW	FLDW	FLDW
PHASE 4 & 8 ALT CHANGE	R	R	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLY	FLR	FLR	FLR	FLR	DARK	DARK	DARK	DARK

1 REDLINE REVISION NO.1 MARCH 2012
 Approved by [Signature] 3/15/12
 SHA NO. XX6475185

SHA STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 OFFICE OF TRAFFIC & SAFETY
 TRAFFIC ENGINEERING DESIGN DIVISION
 MD 174 (QUARTERFIELD ROAD) AT
 PAMELA ROAD / LANDMARK DRIVE
 HANOVER, MARYLAND

GENERAL INFORMATION SHEET

SCALE NONE ADVERTISED DATE 12/10/2011 CONTRACT NO. XX6475185

DESIGNED BY MCG COUNTY ANNE ARUNDEL
 DRAWN BY MCG LOGMILE 02017405.24
 CHECKED BY MTS TMS NO. K949
 F.A.P. NO. TOD NO.

TS NO. 4721A-GI DRAWING SG-02 OF 02 SHEET NO. 02 OF 02

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