PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF AN EXISTING TRAFFIC CONTROL SIGNAL DUE TO UPGRADES OF PEDESTRIAN FACILITIES AT THE INTERSECTION OF MD 174 (QUARTERFIELD ROAD) AND PARKE WEST DRIVE/QUARTERFIELD PARK ROAD IN ANNE ARUNDEL COUNTY. INSTALLATION OF ACCESSIBLE PEDESTRIAN SIGNALS AND COUNTDOWN PEDESTRIAN SIGNAL HEADS IS PROPOSED ALONG THE SOUTH AND WEST LEGS OF THE INTERSECTIONS. ADDITIONALLY, MODIFICATION OF THE EXISTING PEDESTRIAN RAMPS IS PROPOSED TO MEET CURRENT ADA REQUIREMENTS.

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

INTERSECTION OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA 6 PHASE, FULL TRAFFIC ACTUATED MODE. EXCLUSIVE LEFT-TURN PHASING WILL REMAIN FOR EASTBOUND AND WESTBOUND MD 174. CONCURRENT SIDE STREET PHASING WILL ALSO REMAIN.

CONTROLLER REQUIREMENTS

EXISTING CABINET AND CONTROLLER WILL BE UTILIZED. SHA FORCES WILL INSTALL ONE (1) 2-WIRE CENTRAL CONTROL UNIT.

SHA FORCES SHALL PERFORM ALL INTERNAL CABINET WIRING.

APS OPERATION

FOR MD 174 (QUARTERFIELD RD.)

A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL BE "WAIT TO CROSS QUARTERFIELD AT PARKE WEST, WAIT".
B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

FOR PARKE WEST DRIVE.

A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL BE "WAIT TO CROSS PARKE WEST AT QUARTERFIELD, WAIT".
B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

THE CONTRACTOR SHALL CONTACT ED RODHIZER AT THE SIGNAL SHOP 410-787-7650 TO DELIVER APS EQUIPMENT FOR TESTING.

CONTACTS

THE CONTACT PERSONS FOR DISTRICT #5 ARE AS FOLLOWS:

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

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

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

The Power Company Representative is:
Baltimore Gas & Electric Company
7317 Parkway Drive South
Hanover, MD 21076
Phone: 410-859-9062

THE CONTACT PERSONS FOR 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 Division
Phone: 410-787-7630

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

Mr. Eugene Bailey
Team Leader - Sign Operations
Phone: 410-787-7676

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.

CONTRACT NO: AX7055168

ITEM NO.	CATEGORY CODE NO.	QUANTITY	DESCRIPTION
1001	114280	700 LF	REMOVAL OF EXISTING PAVEMENT LINE MARKINGS, ANY WIDTH
2002	203030	4 CY	TEST PIT EXCAVATION
5005	585412	390 LF	12 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
8001	800000	4 EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
8002	800000	4 EA	BREAKAWAY PEDESTAL POLE - ANY SIZE
8003	800000	1 EA	FURNISH AND INSTALL 2 WIRE CONTROL UNIT
8004	800000	4 EA	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEADS
8005	800000	4 EA	PEDESTRIAN EDUCATION SIGN
8007	800000	1 EA	REMOVE AND DISPOSE PER ASSIGNMENT
8009	801104	32 LF	WOOD SIGN SUPPORTS 4 INCH X 4 INCH
8010	802145	1 EA	ADJUST EXISTING HANDHOLE
8011	802501	100 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8012	805135	80 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8014	813014	23 SF	INSTALL GROUND MOUNTED SIGN
8019	861105	600 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8020	861107	600 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
NEG	114285	1 EA	REMOVAL OF EXISTING PAVEMENT LETTERS, SYMBOLS, ARROWS AND NUMBERS
NEG	801004	1 CY	CONCRETE FOR SIGNAL FOUNDATION

EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

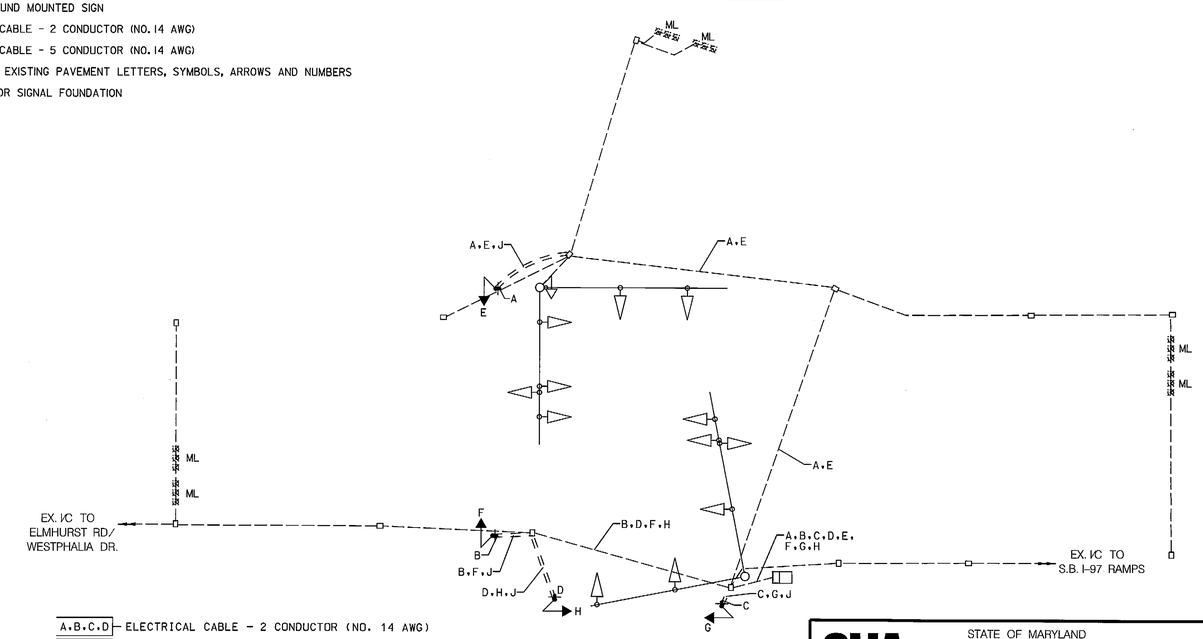
ITEM NO	QUANTITY	DESCRIPTION
NONE	NONE	NONE

ALL REMOVED MATERIALS ARE TO BECOME THE PROPERTY OF THE CONTRACTOR

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	17	18	19	20
	←R→ ←Y→ ←G→	←R→ ←Y→ ←G→	R Y G	R Y G	←R→ ←Y→ ←G→	←R→ ←Y→ ←G→	R Y G	R Y G	R Y G	R Y G	R Y G	R Y G				
PHASE 1 + 5	←G—	←G—	R	R	←G—	←G—	R	R	R	R	R	R	DW	DW	DW	DW
1 + 5 CHANGE	THE CONTROLLER MAY SKIP TO: 1+6, 2+5, OR 2+6															
PHASE 1 + 6	←G—	←G—	G	G	←R—	←R—	R	R	R	R	R	R	WK	WK	DW	DW
1 CHANGE	←Y—	←Y—	G	G	←R—	←R—	R	R	R	R	R	R	WK	WK	DW	DW
PHASE 2 + 5	←R—	←R—	R	R	←G—	←G—	G	G	R	R	R	R	DW	DW	DW	DW
5 CHANGE	←R—	←R—	R	R	←Y—	←Y—	Y	Y	R	R	R	R	DW	DW	DW	DW
PHASE 2 + 6	←R—	←R—	G	G	←R—	←R—	G	G	R	R	R	R	WK	WK	DW	DW
PED CLEARANCE	←R—	←R—	G	G	←R—	←R—	G	G	R	R	R	R	FL/DW	FL/DW	DW	DW
2 + 6 CHANGE	←R—	←R—	Y	Y	←R—	←R—	Y	Y	R	R	R	R	DW	DW	DW	DW
PHASE 4 & 8	←R—	←R—	R	R	←R—	←R—	R	R	G	G	G	G	DW	DW	DW	DW
4 & 8 CHANGE	←R—	←R—	R	R	←R—	←R—	R	R	Y	Y	Y	Y	DW	DW	DW	DW
PHASE 4 ALT	←R—	←R—	R	R	←R—	←R—	R	R	G	G	G	G	DW	DW	WK	WK
PED CLEARANCE	←R—	←R—	R	R	←R—	←R—	R	R	G	G	G	G	DW	DW	FL/DW	FL/DW
4 ALT CHANGE	←R—	←R—	R	R	←R—	←R—	R	R	Y	Y	Y	Y	DW	DW	DW	DW
FLASHING OPERATION	FL/RA	FL/RA	FL/Y	FL/Y	FL/RA	FL/RA	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK

WIRING DIAGRAM



A,B,C,D — ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
E,F,G,H — ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
J — NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
ML — EXISTING MICROLOOP PROBE

SHA

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 174 (QUARTERFIELD ROAD) AT
PARKE WEST DRIVE/QUARTERFIELD PARK ROAD
GLEN BURNIE, MARYLAND

RJM ENGINEERING, INC.
CONSULTING ENGINEERS
COLUMBIA, MARYLAND

GENERAL INFORMATION SHEET

SCALE N.T.S. ADVERTISED DATE OCT. 2011 CONTRACT NO. AX7055168

DESIGNED BY P.WESTCOTT
DRAWN BY P.WESTCOTT
CHECKED BY J.RECTANUS
F.A.P. NO.

COUNTY ANNE ARUNDEL
LOGMILE 02017402.19
TIMS NO. J966
TOD NO.

TS NO. 1908 F | DRAWING SG-02 OF 03 | SHEET NO. 2 OF 3

PLOTTED: $DATETIME$
FILE: $FILE$

BY: $USERNAME$

10/7/2011 10:33:46 AM M:\PROJ\207004.05\Hwy\Traffic\Location #04- MD 174 from Quaterfeild Rd to I-97\10-05-11 Parke Again\aSG-N000 MD174-Parke Rev.dgn