

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 2 (GOVERNOR RITCHIE HIGHWAY) AND MD 711 (ARUNDEL CORPORATION ROAD)/SYCAMORE DRIVE IN ANNE ARUNDEL COUNTY, MARYLAND. MODIFICATIONS INCLUDE THE INSTALLATION OF 16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEADS AND AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTONS FOR THE SOUTH LEG OF MD 2. MD 2 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA SIX-PHASE, SEMI-TRAFFIC-ACTUATED MODE WITH THE MD 2 APPROACHES OPERATING CONCURRENTLY AND THE MD 711/SYCAMORE DRIVE APPROACHES OPERATING CONCURRENTLY. PROTECTED LEFT-TURN PHASING IS PROVIDED FOR NORTHBOUND AND SOUTHBOUND MD 2.

A NEW AUDIBLE PUSHBUTTON ACTUATED PEDESTRIAN PHASE WILL BE PROVIDED ACROSS THE SOUTH LEG OF MD 2.

APS MESSAGE FOR CROSSING AT THE SOUTHEAST LEG OF MD 2 (GOVERNOR RITCHIE HIGHWAY):

- A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE "WAIT TO CROSS GOVERNOR RITCHIE AT ARUNDEL CORPORATION/SYCAMORE, WAIT".
- B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

APS MESSAGE FOR CROSSING AT THE SOUTHWEST CORNER OF MD 2 (GOVERNOR RITCHIE HIGHWAY):

- A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE "WAIT TO CROSS GOVERNOR RITCHIE AT SYCAMORE/ARUNDEL CORPORATION, WAIT".
- B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

CONTROLLER REQUIREMENTS

THE EXISTING NEMA SIZE '6' BASE MOUNTED CABINET AND EIGHT-PHASE CONTROLLER AND ALL ASSOCIATED EQUIPMENT WILL CONTINUE TO BE USED. A 2-WIRE CENTRAL CONTROL UNIT WILL BE ADDED TO THE CABINET.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY SHA:

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
9570	2	SF	[UPDATED] SHEET ALUMINUM GROUND MOUNTED SIGN - 2 EACH R10-3(1) (9"x15")

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
2002	1	CY	TEST PIT EXCAVATION
5005	400	LF	12 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
8001	2	EA	FURNISH AND INSTALL AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
8002	1	EA	FURNISH AND INSTALL BREAKAWAY PEDESTAL POLE - ANY SIZE
8003	2	EA	FURNISH AND INSTALL 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEADS
8008	50	LF	FURNISH AND INSTALL UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8012	50	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8015	2	SF	INSTALL GROUND MOUNTED SIGN
8020	300	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8021	300	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

- MS. KIMBERLY TRAN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
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ASSISTANT DISTRICT ENGINEER - UTILITY
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- MR. JOHN MAYS
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- MR. RICHARD L. DAFF
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- MR. ED RODENHIZER
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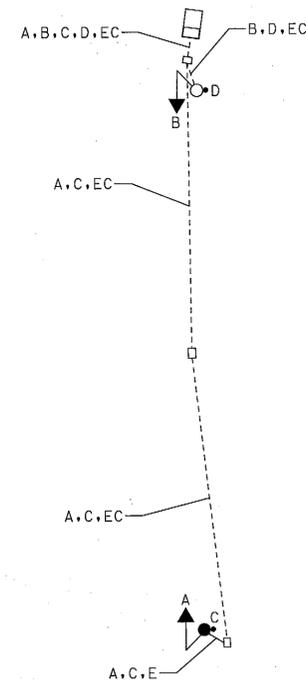
EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA:
NONE.

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PHASE 1 + 5	←C	←C	R	R	←G	←G	R	R	R	R	R	R	R	R	DW	DW
I + 5 CHANGE	I + 5 MAY CHANGE TO PHASE I + 6, PHASE 2 + 5, OR PHASE 2 + 6															
PHASE 1 + 6	←C	←C	G	G	←R	←R	R	R	R	R	R	R	R	R	DW	DW
I + 6 CHANGE	←Y	←Y	G	G	←R	←R	R	R	R	R	R	R	R	R	DW	DW
PHASE 2 + 5	←R	←R	R	R	←G	←G	G	G	R	R	R	R	R	R	DW	DW
2 + 5 CHANGE	←R	←R	R	R	←Y	←Y	G	G	R	R	R	R	R	R	DW	DW
PHASE 2 + 6	←R	←R	G	G	←R	←R	R	R	R	R	R	R	R	R	DW	DW
2 + 6 CHANGE	←R	←R	Y	Y	←R	←R	Y	Y	R	R	R	R	R	R	DW	DW
PHASE 4 + 8	←R	←R	R	R	←R	←R	R	R	G	G	G	G	G	G	DW	DW
4 + 8 CHANGE	←R	←R	R	R	←R	←R	R	R	Y	Y	Y	Y	Y	Y	DW	DW
PHASE 4 + 8 ALT	←R	←R	R	R	←R	←R	R	R	G	G	G	G	G	G	W	W
PED CLEARANCE	←R	←R	R	R	←R	←R	R	R	G	G	G	G	G	G	FL/DW	FL/DW
4 + 8 ALT CHANGE	←R	←R	R	R	←R	←R	R	R	Y	Y	Y	Y	Y	Y	DW	DW
FLASHING OPERATION	FL/←R	FL/←R	FL/Y	FL/Y	FL/←R	FL/←R	FL/Y	DARK	DARK							

WIRING DIAGRAM



WIRING KEY

- A.B } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- C.D } 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- E } STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)
- EC } EXISTING CABLE

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

**MD 2 (GOVERNOR RITCHIE HIGHWAY) AT
MD 711 (ARUNDEL CORPORATION ROAD)/SYCAMORE DRIVE
GLEN BURNIE, MARYLAND**

GENERAL INFORMATION SHEET

SCALE NONE DATE MARCH 28, 2012 CONTRACT NO. AX6446378

DESIGNED BY NJM COUNTY ANNE ARUNDEL
DRAWN BY NJM LOGMILE 02000239.34
CHECKED BY BSH T.I.M.S. NO. L150
F.A.P. NO. N/A T.O.D. NO.

T.S. NO. 797C-GI SG-02 OF SG-02 SHEET NO. 6 OF 6

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