

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF AN EXISTING MAST ARM TRAFFIC CONTROL SIGNAL AT INTERSECTION OF MD 176 (DORSEY ROAD) AND W.B. & A. ROAD IN ANNE ARUNDEL COUNTY. THE EXISTING PEDESTRIAN PHASES SHALL BE UPGRADED TO A COUNTDOWN PEDESTRIAN PHASE WITH AUDIBLE PUSHBUTTONS AT THIS LOCATION. MD 176 (DORSEY ROAD) IS ASSUMED TO RUN IN A EAST-WEST DIRECTION.

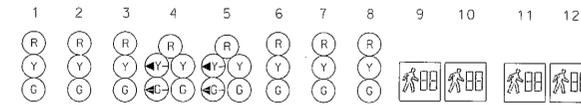
II. INTERSECTION OPERATION

- THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA FOUR-PHASE, SEMI-ACTUATED MODE, WITH THE MD 176 (DORSEY ROAD) APPROACHES OPERATING CONCURRENTLY. THE EXCLUSIVE/PERMISSIVE LEFT TURN PHASE FOR THE WESTBOUND APPROACH OF MD 176 (DORSEY ROAD) SHALL CONTINUE TO BE PROVIDED. THE PEDESTRIAN PHASE ACROSS THE WEST LEG OF MD 176 (DORSEY ROAD) SHALL NOW BE A COUNTDOWN PEDESTRIAN PHASE WITH AUDIBLE PUSHBUTTON ACTUATION. THE PEDESTRIAN PHASE ACROSS W.B. & A. ROAD SHALL NOW BE A COUNTDOWN PEDESTRIAN PHASE WITH AUDIBLE PUSHBUTTONS ON RECALL. THE W.B. & A. ROAD APPROACH SHALL ALSO CONTINUE TO RUN IN ITS OWN APPROACH.
- THE EXISTING FULL TRAFFIC EIGHT PHASE CONTROLLER WITH ALL NECESSARY EQUIPMENT HOUSED IN A NEMA SIZE 6 BASE MOUNTED CABINET SHALL BE UTILIZED AT THIS INTERSECTION.
- SHA SIGNAL SHOP SHALL INSTALL APS CONTROL UNIT INTO CONTROLLER CABINET. THE CONTRACTOR SHALL DELIVER THE CONTROL UNIT AND AUDIBLE PUSHBUTTONS TO THE SHA SIGNAL SHOP FOR TESTING.

III SPECIAL NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES TO THE APPROPRIATE TERMINALS AND SHALL PROPERLY LABEL EACH CABLE.
- ALL UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES A CONFLICT BETWEEN UTILITIES AND SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THE CONFLICT MAY BE RESOLVED.

PHASE CHART



PHASE 2 & 5	R	R	R	G	G	G	R	R	DW	DW	DW	DW	
2 & 5 CHANGE	R	R	R	G	G	G	R	R	DW	DW	DW	DW	T
PHASE 2 & 6	G	G	G	G	G	G	R	R	WK	WK	DW	DW	
PED CLEAR (COUNTDOWN)	G	G	G	G	G	G	R	R	FL/DW	FL/DW	DW	DW	
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	DW	DW	DW	DW	T
PHASE 4	R	R	R	R	R	R	G	G	DW	DW	DW	DW	
4 CHANGE	R	R	R	R	R	R	Y	Y	DW	DW	DW	DW	T
PHASE 4 ALT	R	R	R	R	R	R	G	G	DW	DW	WK	WK	
PED CLEARANCE (COUNTDOWN)	R	R	R	R	R	R	G	G	DW	DW	FL/DW	FL/DW	
4 ALT CHANGE	R	R	R	R	R	R	Y	Y	DW	DW	DW	DW	T
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	DARK	DARK	DARK	DARK	

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY SHA

ITEM NO.	QUANTITY	DESCRIPTION
9571	4 SF	SHEET ALUMINUM MAST ARM / POLE MOUNTED SIGN - 4 EACH R10-3(1) SIGN (9"X15")

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
2002	4 EACH	TEST PIT
6001	110 LF	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
6002	705 SF	5 INCH CONCRETE SIDEWALK
6003	72 SF	DETECTABLE WARNING SURFACE FOR CURB RAMPS
8002	1 EACH	2-WIRE CENTRAL CONTROL UNIT
8008	4 EACH	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
8009	4 EACH	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8018	4 EACH	16" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD
8043	80 LF	UP TO 4 INCHES SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8045	4 SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8047	85 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8058	600 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8060	725 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

2001 200Y CANCELLED BY CAVATON

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

ALL REMOVED SIGNAL MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR

The contact persons for District #5 and SHA are as follows:

Ms. Kim Tran
Assistant District Engineer - Traffic
Phone: (410) 841-1019

Mr. Joe Geckle
Assistant District Engineer - Maintenance
Phone: (410) 841-1000

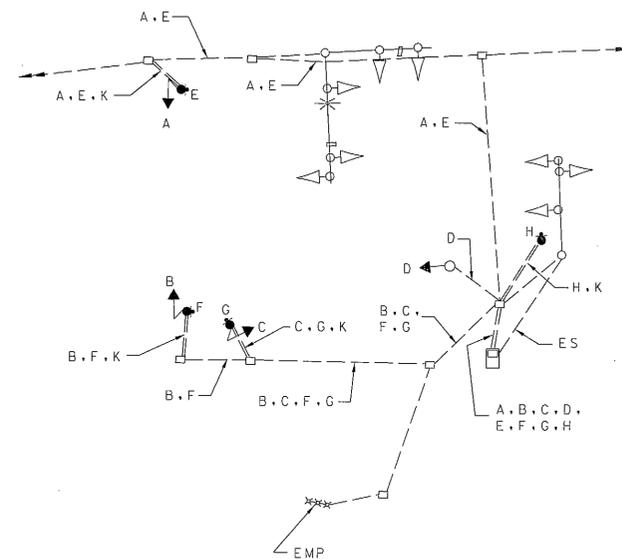
Mr. Mike Huber
Assistant District Engineer - Utility
Phone: (410) 841-1039

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

Mr. Ed Rodenhizer
Manager, Signal Operations Section
410-787-7652

Mr. Sonny Bailey
Manager, Sign Shop Operations
410-787-7676

WIRING DIAGRAM



WIRING KEY

5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

K- STANDARD BARE COPPER GROUND WIRE (NO. 6 A.W.G.)

EMP- EXISTING MICROLOOP

ES- EXISTING UNDERGROUND SERVICE TO BE MAINTAINED BY BGE

TOD NO: XY139-03
SHA NO: AA189B53
MD 162, MD 170, MD 176 @ Various Locations

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 176 (DORSEY ROAD) AT W.B. & A. ROAD
HANOVER, MARYLAND

GENERAL INFORMATION SHEET

SCALE 1"=20' DATE 2/6/13 CONTRACT NO. XY1395185

DESIGNED BY A. BEKELE COUNTY ANNE ARUNDEL
DRAWN BY O. GEORGE LOGMILE 02017603.55
CHECKED BY [Signature] TMS NO. L653
F.A.P. NO. TOD NO.

TS NO. 3248C DRAWING TSP-3 OF 3 SHEET NO. 12 OF 33

O. R. GEORGE & ASSOCIATES, INC.
Traffic Engineers - Transportation Planners
10210 Greenbelt Road, Suite 310
Lanham, MD 20706
(301) 794-7700

DRILL HOLES

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REVISION DATE: June 1, 2004