

PROJECT DESCRIPTION

GENERAL
THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 150 (EASTERN AVENUE) AND PEMBROOKE BOULEVARD/48TH STREET IN BALTIMORE COUNTY, MARYLAND. MD 150 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION OPERATES IN A NEMA SIX-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE MD 150 APPROACHES OPERATING CONCURRENTLY AND THE PEMBROOKE BOULEVARD/48TH STREET APPROACHES OPERATING SPLIT PHASE.

A RIGHT-TURN OVERLAP WAS ADDED FOR THE 48TH STREET APPROACH.

THE PEDESTRIAN PHASE ACROSS THE EAST LEG WILL REMAIN UNCHANGED.

TYPICAL MESSAGES FOR ACCESSIBLE PED SIGNALS

MD 150 (EASTERN AVENUE) AND 48TH STREET - EAST LEG

STREETS AT 90 DEGREES

WAIT: "WAIT TO CROSS EASTERN AT 48TH. WAIT." *

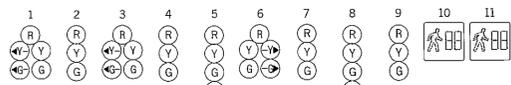
WALK: RAPID TICK

* MESSAGE USED IF DISTANCE FROM NEAREST PUSHBUTTON FOR PERPENDICULAR CROSSING IS < 10'
** MESSAGE USED IF CROSSWALK DIVERGES FROM OR CONVERGES WITH PARALLEL TRAFFIC
NOTE: MESSAGES FOR INTERSECTION CONFIGURATIONS, VARYING FROM THE ABOVE ARE TO BE APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET AND CONTROLLER WILL BE USED. THE CONTROLLER WILL BE RETROFITTED TO OPERATE VIDEO DETECTION AND APS EQUIPMENT.

PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11
PHASE 1 AND 5	R	R	R	R	R	R	R	R	DW	DW	
1 AND 5 CHANGE	G+	G-	G	G	G	G	G	G	DW	DW	
PHASE 1 AND 6	G	G	R	R	R	R	R	R	DW	DW	
1 AND 6 CHANGE	G+	G-	G	G	G	G	G	G	DW	DW	
PHASE 2 AND 5	R	R	G+	G	R	R	R	R	DW	DW	
2 AND 5 CHANGE	R	R	G+	G	R	R	R	R	DW	DW	
PHASE 2 AND 6	G	G	G	G	R	R	R	R	DW	DW	
2 AND 6 CHANGE	Y	Y	Y	Y	R	R	R	R	DW	DW	
PHASE 3	R	R	R	R	R	R	R	G+	G	DW	DW
PHASE 3 CHANGE	R	R	R	R	R	R	R	Y	DW	DW	
PHASE 4	R	R	R	R	G+	G	G	R	R	DW	DW
PHASE 4 CHANGE	R	R	R	R	Y	Y	Y	R	R	DW	DW
PHASE 4 ALT	R	R	R	R	G+	G	G	R	R	WK	WK
PHASE 4 ALT CHANGE	R	R	R	R	G+	G	G	R	R	FL/DW	FL/WK
PHASE 4 ALT CHANGE	R	R	R	R	Y	Y	Y	R	R	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
9086	1 EACH	VIDEO INTERFACE EQUIPMENT: 1-8 CAMERAS
9571	55 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF : - 2 EACH R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS EASTERN AVENUE" - 1 EACH D-3(1) SIGN (VAR. x 32 IN.) - 2 EACH M1-5(4) SIGN (78 IN. x 36 IN.)

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT. ADDITIONAL TRAFFIC CONTROL STANDARDS MAY BE USED AS DIRECTED BY THE ENGINEER.

STANDARD NO. MD-104.04-04 (LEFT LANE CLOSURE) STANDARD NO. MD-104.04-14 (LEFT TURN BAY CLOSURE)
STANDARD NO. MD-104.04-06 (RIGHT LANE CLOSURE) STANDARD NO. MD-104.04-16 (INTERSECTION LEFT LANE, TURN BAY)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MS. ERIN KUHN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 229-2381

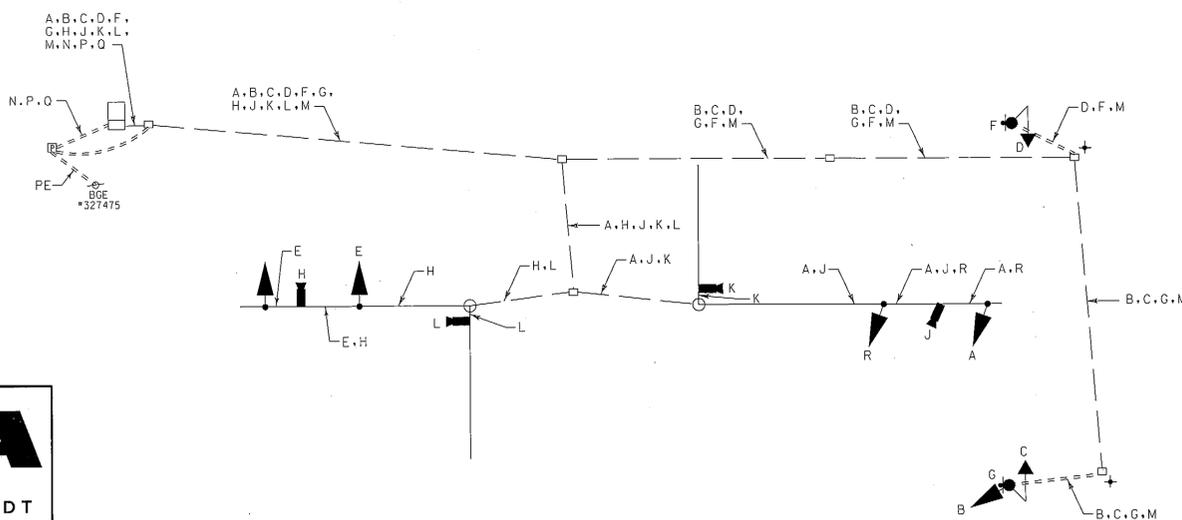
MR. ROBERT SYNDER
ASSISTANT CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7631

MR. ANDRE FUTRELL
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 229-2361

MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

MR. MIKE PASQUARIELLO
DISTRICT UTILITY ENGINEER
PHONE: (410) 229-2341

WIRING DIAGRAM



WIRING KEY

- A } 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- B } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- C } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- D } VIDEO CAMERA DETECTION LEAD-IN CABLE
- E } STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- F } 1-CONDUCTOR ELECTRICAL CABLE (NO. 8 A.W.G.)
- PE - PROPOSED UNDERGROUND ELECTRICAL SERVICE
- + - 3/4 IN. X 10 FT. GROUND ROD

REVISION NO. 1
3/23/2012

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 150 (EASTERN AVENUE) AT PEMBROOKE BLVD/48TH STREET
EASTWOOD, MARYLAND

GENERAL INFORMATION SHEET

SCALE	NONE	DATE	JUNE 1, 2011	CONTRACT NO.	XX6455185
DESIGNED BY	L. WAESCHE	COUNTY	BALTIMORE		
DRAWN BY	L. WAESCHE	LOGMILE	03015000.16		
CHECKED BY	N. LEARY	TMS NO.	K257		
F.A.P. NO.		TOD NO.			
TS NO. 3619-C	DRAWING TSP-3	OF 3	SHEET NO. 3	OF 3	

WR&A
WHITMAN, REQUARDT & ASSOCIATES, LLP
801 South Caroline Street, Baltimore, Maryland 21231