

**PROJECT DESCRIPTION**

THIS PROJECT INVOLVES THE MODIFICATION OF EXISTING LOOP DETECTION TO VIDEO DETECTION AT U.S. 1 & MD 136, MD 152 & MD 147, MD 152 & OLD JOPPA ROAD, U.S. 40 & MD 24, U.S. 40 & WEST SHORE ROAD, U.S. 40 & ABINGDON ROAD/OTTER POINT ROAD, U.S. 40 & LONG BAR HARBOR, U.S. 40 & MD 7 (OLD PHILADELPHIA ROAD) AND U.S. 40 & WALMART ENTRANCE. THIS PROJECT IS LOCATED IN HARFORD COUNTY, MARYLAND.

MD 152 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

U.S. 40 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

U.S. 1 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

**INTERSECTION OPERATION**

THE INTERSECTION OPERATION WILL REMAIN THE SAME.

**CONTROLLER REQUIREMENTS**

US 1 AND MD 136

THE EXISTING POLE MOUNTED CABINET AND CONTROLLER WILL BE USED. THE DETECTOR RACK WILL BE RETRO-FITTED WITH ONE (1) FOUR-CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIER.

MD 152 AND MD 147

THE EXISTING BASE MOUNTED CABINET AND CONTROLLER WILL BE USED. THE DETECTOR RACK WILL BE RETRO-FITTED WITH TWO (2) FOUR-CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIER.

MD 152 AND OLD JOPPA ROAD

THE EXISTING POLE MOUNTED CABINET AND CONTROLLER WILL BE USED.

US 40 AND MD 24

THE EXISTING BASE MOUNTED CABINET AND CONTROLLER WILL BE USED.

US 40 AND WEST SHORE ROAD

THE EXISTING BASE MOUNTED CABINET AND CONTROLLER WILL BE USED.

US 40 AND ABINGDON ROAD/OTTER POINT ROAD

THE EXISTING POLE MOUNTED CABINET AND CONTROLLER WILL BE USED.

US 40 AND LONG BAR HARBOR ROAD

THE EXISTING POLE MOUNTED CABINET AND CONTROLLER WILL BE USED. THE DETECTOR RACK WILL BE RETRO-FITTED WITH ONE (1) FOUR-CHANNEL, TIME DELAY-OUTPUT LOOP DETECTOR AMPLIFIER.

US 40 AND MD 7 (OLD PHILADELPHIA ROAD)/ MD 159

THE EXISTING BASE MOUNTED CABINET AND CONTROLLER WILL BE USED.

US 40 AND WALMART ENTRANCE

THE EXISTING BASE MOUNTED CABINET AND CONTROLLER WILL BE USED.

**EQUIPMENT LIST "A"**

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
9016	4 EACH	4 CHANNEL DETECTOR AMPLIFIER
9046	3 EACH	DETECTOR RACK RETROFIT
9086	8 EACH	VIDEO DETECTION INTERFACE EQUIPMENT: 1-8 CAMERAS

**EQUIPMENT LIST "B"**

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
8005	30 EACH	RE-RING EXISTING SPAN WITH 4 INCH RINGS
8006	1 EACH	REMOVE AND DISPOSE OF MATERIAL & EQUIPMENT PER ASSIGNMENT
8007	28 EACH	VIDEO DETECTION CAMERA & CABLE
8009	4 EACH	MICROLOOP PROBE (ANY LENGTH) LEAD IN CABLE UP TO 1000 FT
8011	1675 L.F.	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCH - BORED
8013	720 L.F.	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCH - TRENCHED
8018	26 EACH	NONINVASIVE DETECTOR UP TO 1000 FOOT LEAD IN CABLE
8019	36 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8020	110 L.F.	SAW CUT FOR SIGNAL (LOOP DETECTOR)
8024	15 L.F.	1 INCH DETECTOR SLEEVE GALVANIZED OR FLEXIBLE LIQUID TIGHT

**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-104.04-01 (SHOULDER WORK)	STANDARD NO. MD-104.04-13 (LEFT TURN BAY CLOSURE)
STANDARD NO. MD-104.04-03 (LEFT LANE CLOSURE)	STANDARD NO. MD-104.04-15 (INTERSECTION LEFT LANE, TURN BAY)
STANDARD NO. MD-104.04-05 (RIGHT LANE CLOSURE)	
STANDARD NO. MD-104.04-07 (CENTER LANE CLOSURE)	

**PROJECT CONTACTS**

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MS. ERIN KUHN  
ASSISTANT DISTRICT ENGINEER - TRAFFIC  
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ASSISTANT CHIEF, TRAFFIC OPERATIONS DIVISION  
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DISTRICT UTILITY ENGINEER  
PHONE: (410) 321-2841

TOD NO:XX356-06  
SHA NO:HA378KK53  
VL in HARFORD CO.

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
Video Detection Upgrades  
U.S. 40, U.S. 1 and MD 152

**GENERAL INFORMATION SHEET**

SCALE NONE ADVERTISED DATE 10/23/2009 CONTRACT NO. XX3565168

DESIGNED BY S. Bloss COUNTY Harford

DRAWN BY S. Bloss LOGMILE

CHECKED BY N. Leary / WWR TMS NO. J631

F.A.P. NO.  TOD NO.

TS NO.  DRAWING **TSP-13** OF 13 SHEET NO. 13 OF 13



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