

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL WITH STREET LIGHTING AND INTERCONNECT AT THE INTERSECTION OF US 50 (OCEAN GATEWAY) AND MD 309 (BLACK DOG ALLEY) / AIRPORT RD IN TALBOT COUNTY. THE MODIFICATION WILL UPGRADE THE EXISTING LOOP DETECTORS FOR PRESENCE, SAMPLING AND SIDE STREET PASSAGE DETECTION TO VIDEO DETECTION. THE EXISTING MICROLOOP PROBE DETECTORS FOR PASSAGE DETECTION WILL BE UPGRADED TO NON-INVASIVE DETECTORS. US 50 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

II. INTERSECTION OPERATION

- THE INTERSECTION OPERATES IN A NEMA SEVEN (7) PHASE, FULLY-ACTUATED MODE. US 50 APPROACHES OPERATE CONCURRENTLY, AND EXCLUSIVE LEFT TURN PHASES ARE PROVIDED FOR BOTH APPROACHES OF US 50. SOUTHBOUND MD 309 AND WESTBOUND AIRPORT RD APPROACHES OPERATE CONCURRENTLY, AND AN EXCLUSIVE-PERMISSIVE LEFT TURN PHASE IS PROVIDED FOR SOUTHBOUND MD 309. EMERGENCY VEHICLE PRE-EMPTION IS PROVIDED FOR ALL APPROACHES OF THE INTERSECTION.
- AN EXISTING FULL-TRAFFIC-ACTUATED, EIGHT (8) PHASE CONTROLLER IN A NEMA SIZE "6" BASE MOUNTED CABINET SHALL BE UTILIZED. VIDEO DETECTION INTERFACE SHALL BE INSTALLED INTO THE CABINET BY SHA FORCES.

CONTACTS

DISTRICT	OFFICE OF TRAFFIC AND SAFETY
MR. RICHARD LINDSAY DISTRICT ENGINEER 410-810-3210	MR. RICHARD DAFF SR. CHIEF, TRAFFIC OPERATIONS 410-787-7630
MR. ROBERT KIEL ASSISTANT DISTRICT ENGINEER - TRAFFIC 410-810-3240	MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS 410-787-7630
MR. BARRY CLOTHIER ASSISTANT DISTRICT ENGINEER - UTILITIES 410-810-3275	MR. ED RODENHIZER TEAM LEADER SIGNAL OPERATIONS 410-787-7650
MR. WM NORRIS EMBERT ASSISTANT DISTRICT ENGINEER - CONSTRUCTION 410-810-3270	MR. EUGENE BAILEY TEAM LEADER SIGN OPERATIONS 410-787-7670
MR. TERRY WRIGHT ASSISTANT DISTRICT ENGINEER - MAINTENANCE 410-810-3250	MS. DARLENE EIDE SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE) 410-787-7668

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

ITEM NO.	QUANTITY	DESCRIPTION
9087	1 EA	[UPDATED] VIDEO DETECTION INTERFACE EQUIPMENT: 5-8 CAMERAS

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

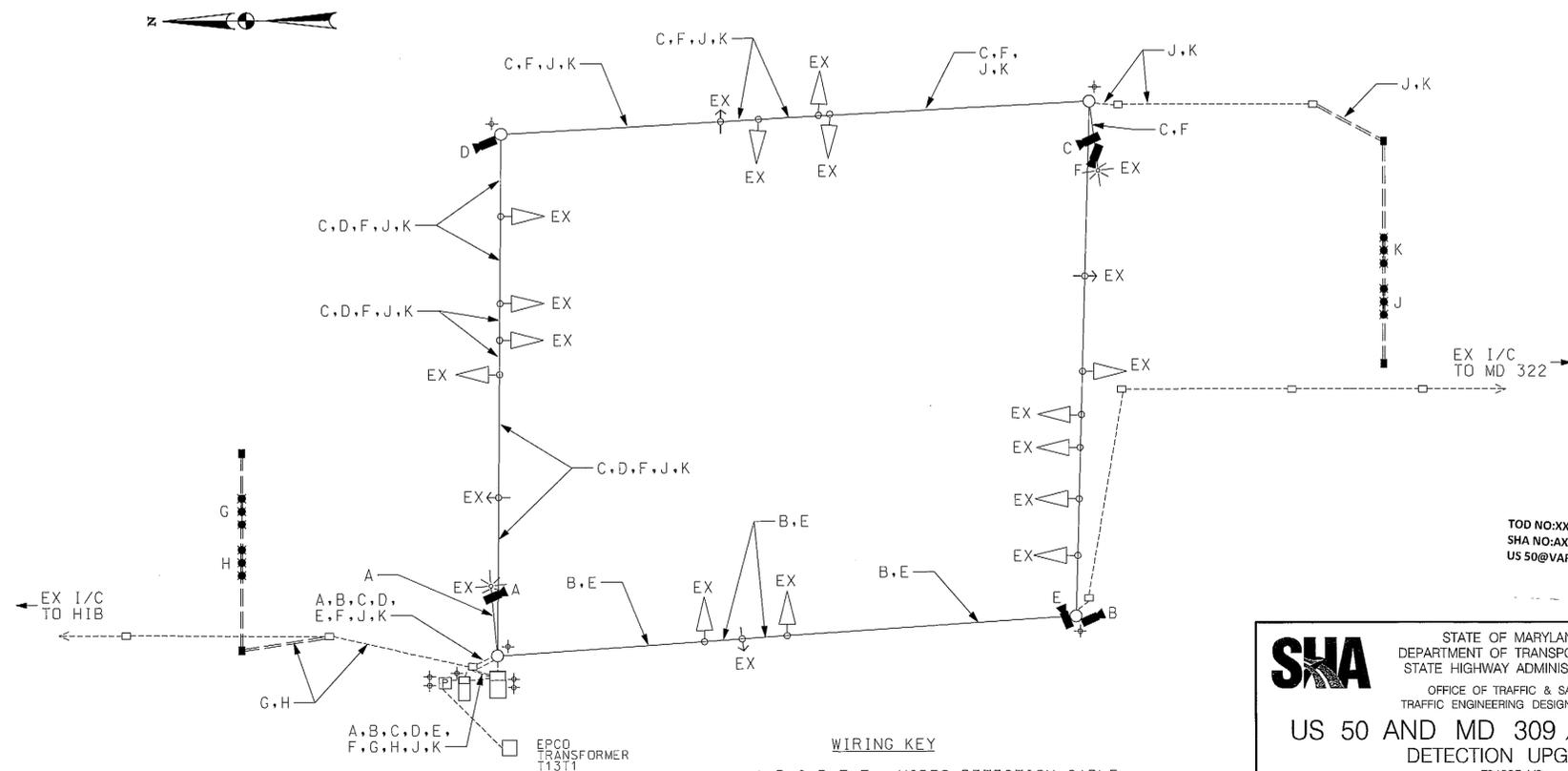
ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
8006	1 EA	REMOVE & DISPOSE OF MATERIAL & EQUIPMENT PER ASSIGNMENT
8007	6 EA	VIDEO DETECTION CAMERA & CABLE
8011	140 LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCH - BORED
8013	140 LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCH - TRENCHED
8018	4 EA	NONINVASIVE DETECTOR UP TO 1000' LEAD IN CABLE
8019	4 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE

C. ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

PHASE CHART

NO PHASE CHANGE

WIRING DIAGRAM



WIRING KEY
 A,B,C,D,E,F - VIDEO DETECTION CABLE
 G,H,J,K - NON-INVASIVE DETECTOR LEAD-IN CABLE
 EX - EXISTING CABLE
 + - EXISTING GROUND ROD

TOD NO: XX356-01
 SHA NO: AX885K51
 US 50@VARIOUS LOCATION

	STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION	
	OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION	
US 50 AND MD 309 /AIRPORT RD DETECTION UPGRADE TRAPPE, MD		
GENERAL INFORMATION SHEET		
SCALE	N.T.S.	DATE SEPTEMBER 2, 2009 CONTRACT NO. XX3565168
DESIGNED BY	M. FUKUJI	COUNTY TALBOT
DRAWN BY	M. FUKUJI	LOGMILE 20005008.72
CHECKED BY		TIMS NO. J601
F.A.P. NO.		TOD NO.
TS NO. 1525J	DRAWING SG-02 OF 10	SHEET NO. 02 OF 10

BY: mifukui