

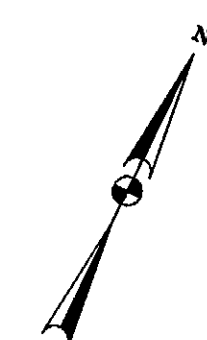
PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF US 40 (PULASKI HWY) AND MD 272 (NORTH EAST RD AND MALDIN AVE) IN CECIL COUNTY. THE MODIFICATION WILL UPGRADE THE EXISTING VIDEO DETECTION AND REPLACE EXISTING PROBES. US 40 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

II. INTERSECTION OPERATION

- THE INTERSECTION OPERATES IN A NEMA EIGHT (8) PHASE, FULLY-ACTUATED MODE. MAINLINE US 40 OPERATES WITH AN EXCLUSIVE LEFT TURN PHASE. MD 272 OPERATES WITH AN EXCLUSIVE LEFT TURN PHASE WITH AN OVERLAP FOR THE WESTBOUND RIGHT TURN. WESTBOUND RIGHT TURN HAS NO TURN ON RED.
- AN EXISTING NEMA FULL-TRAFFIC-ACTUATED, EIGHT (8) PHASE CONTROLLER IN A NEMA SIZE "6" BASE MOUNTED CABINET SHALL BE UTILIZED AT THIS LOCATION. VIDEO DETECTION INTERFACE SHALL BE INSTALLED INTO THE CABINET BY SHA FORCES.



PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
PHASE 1 AND 5	<G-	<G-	<G-	R	R	<G-	<G-	R	R	<R-	<R-	R	R	<R-	R	<R-	<R-	R	R
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6																			
PHASE 1 AND 6	<G-	<G-	<G-	G	G	<R-	<R-	R	R	<R-	<R-	R	R	<R-	R	<R-	<R-	R	R
1 CHANGE	<Y-	<Y-	<Y-	Y	Y	<R-	<R-	R	R	<R-	<R-	R	R	<R-	R	<R-	<R-	R	R
PHASE 2 AND 5	<R-	<R-	<R-	R	R	<Y-	<Y-	G	G-YD	<R-	<R-	R	R	<R-	R	<R-	<R-	R	R
5 CHANGE	<R-	<R-	<R-	R	R	<Y-	<Y-	G	G-YD	<R-	<R-	R	R	<R-	R	<R-	<R-	R	R
PHASE 2 AND 6	<R-	<R-	<R-	G	G	<R-	<R-	G	G-YD	<R-	<R-	R	R	<R-	R	<R-	<R-	R	R
2 AND 6 CHANGE	<R-	<R-	<R-	Y	Y	<R-	<R-	Y	Y-GD	<R-	<R-	R	R	<R-	R	<R-	<R-	R	R
PHASE 3 AND 7	<R-	<R-	<R-	R	R	<R-	<R-	R	R-GD	<G-	<G-	R	R	<G-	R	<G-	<G-	R	R
3 AND 7 CHANGE TO 3 AND 8, 4 AND 7, OR 4 AND 8																			
PHASE 3 AND 8	<R-	<R-	<R-	R	R	<R-	<R-	R	R	<G-	<G-	G	G	<R-	R	<R-	<R-	R	R
3 CHANGE	<R-	<R-	<R-	R	R	<R-	<R-	R	R	<Y-	<Y-	Y	Y	<R-	R	<R-	<R-	R	R
PHASE 4 AND 7	<R-	<R-	<R-	R	R	<R-	<R-	R	R-YD	<R-	<R-	R	R	<G-	G	<G-	<G-	G	G
4 CHANGE	<R-	<R-	<R-	R	R	<R-	<R-	R	R-YD	<R-	<R-	R	R	<Y-	Y	<Y-	<Y-	Y	Y
PHASE 4 AND 8	<R-	<R-	<R-	R	R	<R-	<R-	R	R	<R-	<R-	G	G	<R-	G	<R-	<R-	G	G
4 AND 8 CHANGE	<R-	<R-	<R-	R	R	<R-	<R-	R	R	<R-	<R-	Y	Y	<R-	Y	<R-	<R-	Y	Y
FLASHING OPERATION	FL/R	FL/R	FL/R	FLY	FLY	FL/R	FL/R	FLY	FLY	FL/R	FL/R	FLR	FLR	FL/R	FLR	FL/R	FL/R	FLR	FLR

CONTACTS

DISTRICT (DISTRICT 2)

OFFICE OF TRAFFIC AND SAFETY

MR. JEFFERY WENTZ
ASSISTANT DISTRICT ENGINEER - TRAFFIC
410-810-3240

MS. CORREN JOHNSON
CHIEF, TRAFFIC OPERATIONS DIVISION
410-787-7630

MR. WM NORRIS EMBERT
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
410-810-3270

VACANT
ASSISTANT CHIEF, TRAFFIC OPERATIONS DIVISION
410-787-7630

MR. MIKE LEWIS
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
410-810-3250

MR. EDWARD RODENHIZER
MANAGER, SIGNAL OPERATIONS SECTION
410-787-7650

MR. EUGENE BAILEY
MANAGER, SIGN OPERATIONS SECTION
410-787-7670

MR. MICHAEL STOCKER
SIGNAL SHOP WAREHOUSE
410-787-7696

EQUIPMENT LIST

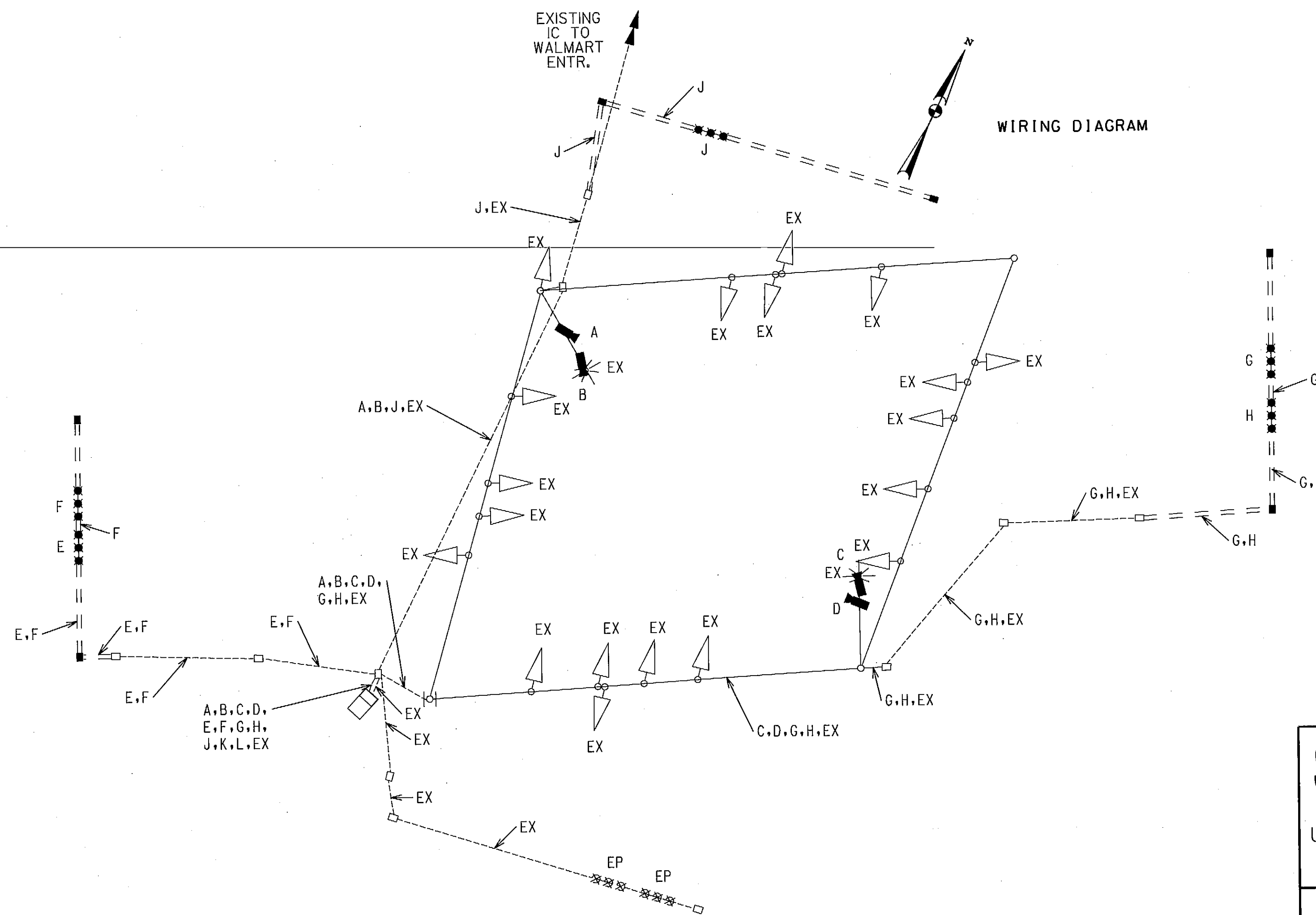
A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

ITEM NO.	QUANTITY	DESCRIPTION
9086	1 EA	[UPDATED] VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS

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

ITEM NO.	QUANTITY	DESCRIPTION
1002	1 EA	MAINTENANCE OF TRAFFIC
8007	1 EA	REMOVE & DISPOSE OF MATERIAL & EQUIPMENT PER ASSIGNMENT
8008	4 EA	VIDEO DETECTION CAMERA & CABLE
8014	210 LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCH - SLOTTED
8015	65 LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCH - TRENCHED
8017	5 EA	NONINVASIVE DETECTOR, 1000 FOOT LEAD IN CABLE
8018	6 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE

C. EXISTING SOLO CAMERA EQUIPMENT REMOVED SHALL BE RETURNED TO SHA. ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF SIGNAL MODIFICATIONS.



WIRING DIAGRAM

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- A,B,C,D - VIDEO DETECTION CAMERA LEAD-IN CABLE
- E,F,G,H - NON-INVASIVE MICROLOOP PROBE LEAD-IN CABLE
- EX - EXISTING SIGNAL CABLE
- EP - EXISTING PROBE

TOD NO: XX662-08
SHA NO: CE398856
US 40 @ MD 272/US 40 @ MD 279,
MD 7, US 40 @ Mechanics

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

US 40 (PULASKI HWY) AT MD 272 (NORTH EAST RD)

NORTH EAST, MD

GENERAL INFORMATION SHEET

SCALE N.T.S. DATE MAY 20, 2013 CONTRACT NO. XX6625185

DESIGNED BY ESA COUNTY CECIL
DRAWN BY ESA LOGMILE 07004008.30
CHECKED BY JK/MF TMS NO. L789
F.A.P. NO. TOD NO.

TS NO. 0296F-GI DRAWING SG-02 OF 02 SHEET NO. 02 OF 02

**PARSONS
BRINCKERHOFF**

100 S. Charles Street
Tower 1, 10th Floor
Baltimore, MD 21201
(Ph) 410-787-5050
(Fax) 410-727-4608
http://www.pbworld.com