

PROJECT DESCRIPTION
GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF US 40 (PULASKI HIGHWAY) AND MD 272 IN CECIL COUNTY. INTERSECTION TO BE MODIFIED TO ELIMINATE THE SIDE STREET SPLIT PHASING.

INTERSECTION OPERATION

EXISTING CABINET/CONTROLLER TO BE UTILIZED. THE INTERSECTION WILL BE MODIFIED TO OPERATE IN A FULLY ACTUATED MODE USING 8 NEMA PHASES. THERE WILL BE AN EXCLUSIVE LEFT TURN PHASE FOR THE EAST AND WESTBOUND MOVEMENTS OF US 40. THE THROUGH MOVEMENTS WILL OPERATE CONCURRENTLY. THERE WILL BE AN EXCLUSIVE LEFT TURN PHASE FOR THE NORTH AND SOUTHBOUND MOVEMENTS OF MD 272 WITH A RIGHT TURN OVERLAP FOR THE WESTBOUND US 40 MOVEMENT. THE THROUGH MOVEMENTS WILL OPERATE CONCURRENTLY.

SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

PROJECT CONTACTS:

MR. JEFF WENTZ, ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 810-3240
MR. WM NORRIS EMBERT, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
PHONE: (410) 810-3270
MR. TERRY WRIGHT, ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 810-3250
MR. BERRY CLOTHIER, UTILITY ENGINEER
PHONE: (410) 810-3275
MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630
MR. EDWARD RODENHIZER, SUPERVISOR, SIGNAL OPERATIONS
PHONE: (410) 787-7652

EQUIPMENT LIST

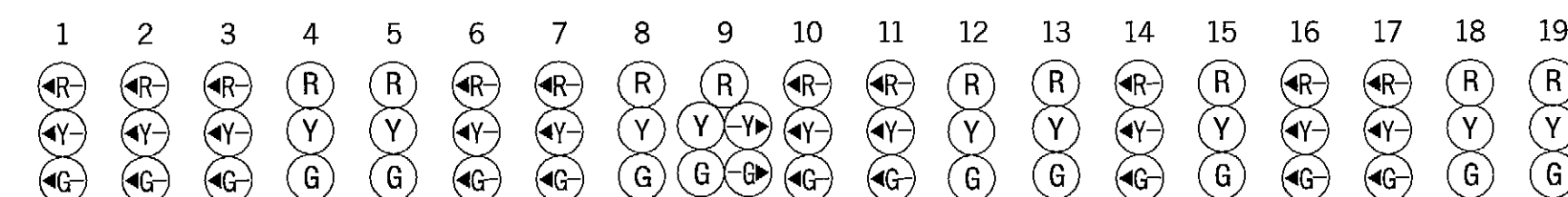
A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

NONE.

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

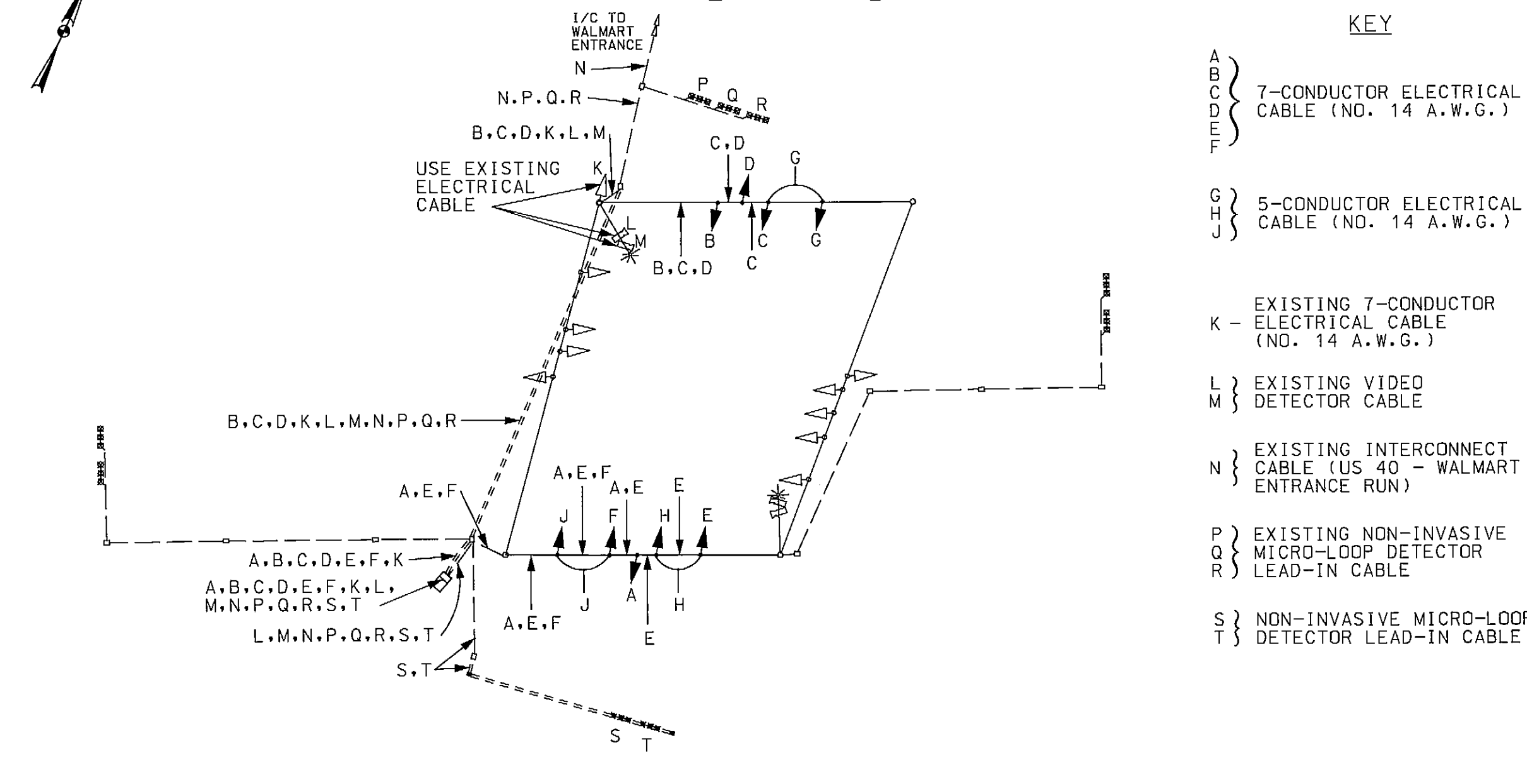
QUANTITY	UNITS	DESCRIPTION
LUMP SUM	LS	MAINTENANCE OF TRAFFIC
LUMP SUM	LS	MOBILIZATION
2	EA	MICROLOOP PROBE (SET OF 3) WITH 500 FT. LEAD-IN CABLE
4	EA	12 IN. 3-SECTION LED SIGNAL HEAD - SPAN
5	EA	12 IN. 3-SECTION LED SIGNAL HEAD (RA,YA,GA) - SPAN
90	LF	5-CONDUCTOR CABLE (NO. 14 AWG)
1160	LF	7-CONDUCTOR CABLE (NO. 14 AWG)
20	LF	3 IN. PVC CONDUIT [SCHEDULE 80] - TRENCHED
75	LF	3 IN. PVC CONDUIT [SCHEDULE 80] - BORED
10	LF	4 IN. PVC CONDUIT [SCHEDULE 80] - TRENCHED
145	LF	4 IN. PVC CONDUIT [SCHEDULE 80] - BORED
1	EA	4 IN. CONDUIT BEND INTO EXISTING BASE
2	EA	NEMA LOAD SWITCH
2	EA	HANDHOLE
2	EA	RELOCATE EXISTING SIGN - SPAN
1	EA	REMOVAL OF EXISTING SIGN - SPAN
1	EA	REMOVAL OF EXISTING GROUND MOUNTED SIGN
LUMP SUM	LS	REMOVE EXISTING SIGNAL EQUIPMENT
LUMP SUM	LS	RELOCATE EXISTING CABLE (APPROX. 1700 LF)

Phase Chart



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- G G ←R- ←R- R R ←R- ←R- R R ←R- R ←R- ←R- R R	
PHASE 2 AND 5	←R- ←R- ←R- R R ←G- ←G- G G ←R- ←R- R R ←R- R ←R- ←R- R R	
5 CHANGE	←R- ←R- ←R- R R ←Y- ←Y- G G ←R- ←R- R R ←R- R ←R- ←R- R R	
PHASE 2 AND 6	←R- ←R- ←R- G G ←R- ←R- G G ←R- ←R- R R ←R- R ←R- ←R- R R	
2 AND 6 CHANGE	←R- ←R- ←R- Y Y ←R- ←R- Y Y ←R- ←R- R R ←R- R ←R- ←R- R R	
PHASE 3 AND 7	←R- ←R- ←R- R R ←R- ←R- R R ←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- G G ←R- R ←R- ←R- R R	
PHASE 4 AND 7	←R- ←R- ←R- R R ←R- ←R- R R ←G- ←G- R R ←G- G ←G- ←G- G G	
7 CHANGE	←R- ←R- ←R- R R ←R- ←R- R R ←Y- ←Y- R R ←Y- G ←Y- ←Y- G G	
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- FL/Y FL/Y FL/ ←R- FL/ ←R- FL/Y FL/Y FL/ ←R- FL/ ←R- FL/R FL/R FL/ ←R- FL/ ←R- FL/R FL/R	

Wiring Diagram



SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
US 40 (PULASKI HIGHWAY) AT MD 272 (MAULDIN AVENUE)
TRAFFIC SIGNAL MODIFICATION
NORTH EAST, MARYLAND

GENERAL INFORMATION PLAN

SCALE	NA	DATE	JULY 12, 2011	CONTRACT NO.	BW996M82
DESIGNED BY	F. BROWNLEY	COUNTY	CECIL		
DRAWN BY	F. BROWNLEY	LOGMILE	07004008.30		
CHECKED BY		TIMS NO.	J920		
F.A.P. NO.	NA	TOD NO.			
TS NO. 296E-GI	DRAWING	GI-01	OF 01	SHEET NO.	2 OF 2

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