PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE REPLACEMENT OF THE RED –LIGHT CAMERA EQUIPMENT FOR THE SOUTHBOUND MOVEMENT AT THE INTERSECTION OF MD 24 (VIETNAM VETERANS MEMORIAL HIGHWAY) AND BOULTON STREET IN THE TOWN OF BEL AIR, MARYLAND. MD 24 (VIETNAM VETERANS MEMORIAL HIGHWAY) IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION OPERATION WILL REMAIN THE SAME.

CONTROLLER REQUIREMENTS

THE EXISTING CABINET AND CONTROLLER SHALL BE USED.

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

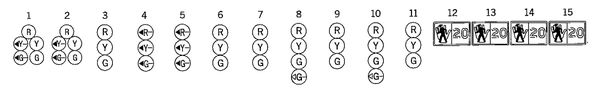
MS. ERIN KUHN
ASSISTANT DISTRICT ENGINEER – TRAFFIC
PHONE: (410) 321-2781/2785

MR. ANDRE FUTRELL
ASSISTANT DISTRICT ENGINEER – MAINTENANCE
PHONE: (410) 321-2761

MR. MIKE PASQUARIELLO
ASST. DISTRICT UTILITY ENGINEER
PHONE: (410) 321-2841

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

PHASE CHART



PHASE 1 + 5	R ←G–	R ←G–	R	←G–	←G–	R	R	R	R	R	R	DW	DW	DW	DW	
1 + 5 CHANGE	PHASE 1 + 5 MAY CHANGE TO PHASE 1 + 6, PHASE 2 + 5 OR PHASE 2 + 6															
PHASE 1 + 6	R	R	R	←G–	←G–	G	G	R	R	R	R	DW	DW	DW	DW	
1 + 6 CHANGE	R	R	R	←Y–	←Y–	G	G	R	R	R	R	DW	DW	DW	DW	
PHASE 2 + 5	G ←G–	G ←G–	G	←R–	←R–	R	R	R	R	R	R	DW	DW	DW	DW	
2 + 5 CHANGE	G ←Y–	G ←Y–	G	←R–	←R–	R	R	R	R	R	R	DW	DW	DW	DW	
PHASE 2 + 6	G	G	G	←R–	←R–	G	G	R	R	R	R	DW	DW	DW	DW	
2 + 6 CHANGE	Y	Y	Y	←R–	←R–	Y	Y	R	R	R	R	DW	DW	DW	DW	
PHASE 3	R	R	R	←R–	←R–	R	R	R	R	G ←G–	G	DW	DW	DW	DW	
3 CHANGE	R	R	R	←R–	←R–	R	R	R	R	Y	Y	DW	DW	DW	DW	
PHASE 3 ALT	R	R	R	←R–	←R–	R	R	R	R	G ←G–	G	W	DW	DW	W	
PED CLEARANCE	R	R	R	←R–	←R–	R	R	R	R	G ←G–	G	FL/DW	DW	DW	FL/DW	
3 ALT CHANGE	R	R	R	←R–	←R–	R	R	R	R	Y	Y	DW	DW	DW	DW	
PHASE 4	R	R	R	←R–	←R–	R	R	G ←G–	G	R	R	DW	DW	DW	DW	
4 CHANGE	R	R	R	←R–	←R–	R	R	Y	Y	R	R	DW	DW	DW	DW	
PHASE 4 ALT	R	R	R	←R–	←R–	R	R	G ←G–	G	R	R	DW	W	W	DW	
PED CLEARANCE	R	R	R	←R–	←R–	R	R	G ←G–	G	R	R	DW	FL/DW	FL/DW	DW	
4 ALT CHANGE	R	R	R	←R–	←R–	R	R	Y	Y	R	R	DW	DW	DW	DW	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	← FL/R–	← FL/R–	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	

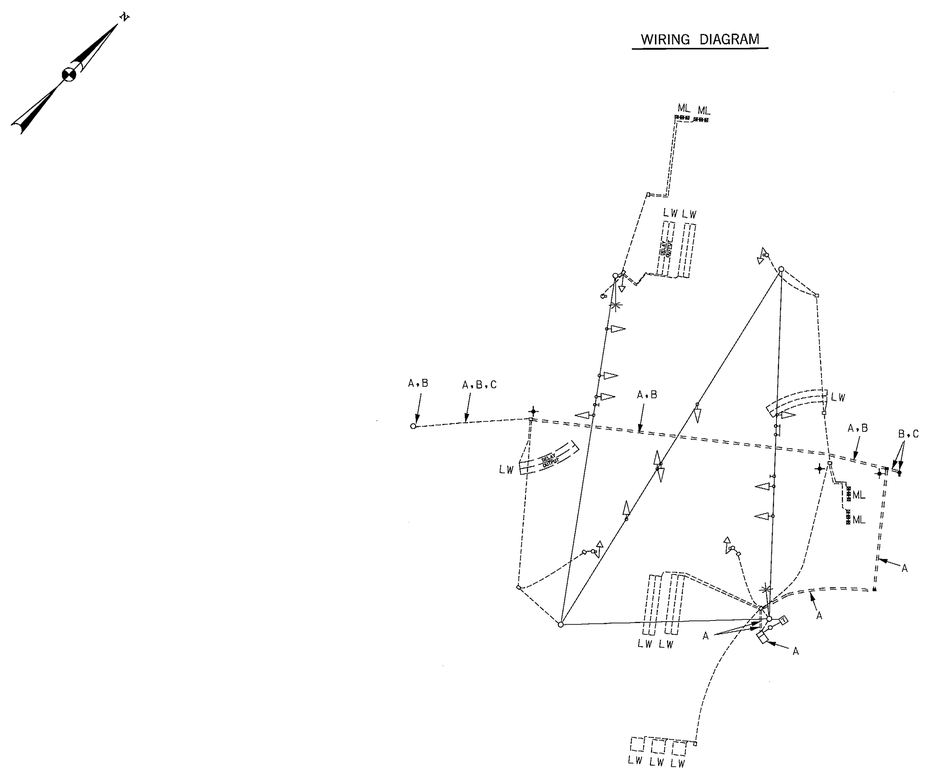
EQUIPMENT LIST

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
1	EA	TEST PIT EXCAVATION
1	EA	LASERCRAFT CAMERA ASSEMBLY
1	EA	LASERCRAFT LASER ASSEMBLY
2	EA	13 FT MILLERBERND POLE, "T" BASE
100	EA	2 IN. PVC CONDUIT [SCHEDULE 80] – TRENCHED
100	LF	3 IN. PVC CONDUIT [SCHEDULE 80] – TRENCHED
210	LF	3 IN. PVC CONDUIT [SCHEDULE 80] – BORED
375	LF	115 V POWER, SIGNAL PHASE-7 CONDUCTOR (#14)CABLE
300	LF	115 V POWER, 3 CONDUCTOR (#14-24/12PRP PE122TEL) CABLE
130	LF	BARE COPPER GROUND WIRE (NO. 6 AWG)
2	EA	GROUND ROD – 3/4 IN. X 10 FT. LENGTH
2	EA	HANDHOLE
1	CY	CONCRETE FOUNDATION FOR CAMERA /LASER EQUIPMENT
1	EA	REMOVE AND DISPOSE OF EXISTING CONCRETE FOUNDATION 12 INCHES BELOW GRADE
LUMP SUM	LS	REMOVE EXISTING RED-LIGHT EQUIPMENT

WIRING DIAGRAM



WIRING KEY

A } 115 V POWER, SIGNAL PHASE 7 CONDUCTOR (#14) CABLE

B } 115 V POWER, 3 CONDUCTOR (#14 24/12PRP PE122TEL) CABLE

C } STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)

+ } 3/4 IN. X 10 FT. GROUND ROD

LW } EXISTING LOOP DETECTOR WIRE

ML } MICRO-LOOP DETECTOR (EXISTING)

BW313M83
MD 24@BOULTON ST
INSTALLATION OF RED LIGHT CAMERA

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

MD 24 (VIETNAM VETERANS MEMORIAL HIGHWAY)
AND BOULTON STREET

The Traffic Group, Inc.
Suite H
9900 Franklin Square Drive
Baltimore, Maryland 21236
410-931-6600
1-800-583-8411
Fax 410-931-6601
"Merging Innovation and Excellence"®

GENERAL INFORMATION SHEET

SCALE NONE DATE 1/15/2010 CONTRACT NO. BW996M82

DESIGNED BY F. Hoeckel
DRAWN BY F. Hoeckel
CHECKED BY
FAP NO. N/A

COUNTY HARFORD
LOGMILE 12002409.33
TIMS NO. J-173
TOD NO.

TS NO. 2386-E-GI | DRAWING TSP – 2 OF 2 | SHEET NO. 2 OF 2

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BY: FHoeckel