

**PROJECT DESCRIPTION**  
GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF US 301 (CRAIN HIGHWAY) AT LEELAND ROAD IN PRINCE GEORGE'S COUNTY. US 301 (CRAIN HIGHWAY) IS CONSIDERED TO RUN IN A NORTH/SOUTH DIRECTION.

MODIFICATION TO INTERSECTION INCLUDE ROADWAY WIDENING FOR ADDITIONAL NORTHBOUND AND SOUTHBOUND LANES WHICH INVOLVES THE CUTTING BACK OF THE EXISTING MEDIAN.

**INTERSECTION OPERATION**

THE EXISTING CABINET/CONTROLLER ARE TO BE UTILIZED AT THIS LOCATION. THE INTERSECTION OPERATION WILL REMAIN UNCHANGED. THERE IS CURRENTLY AN EXCLUSIVE LEFT TURN PHASE FOR THE NORTHBOUND MOVEMENT OF US 301. THE US 301 THROUGH MOVEMENTS OPERATE CONCURRENTLY. THE LEELAND ROAD MOVEMENT OPERATES ALONE.

**SPECIAL NOTES**

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

MS. **SHANEKA OWENS, DISTRICT 3 TRAFFIC**  
PHONE: (301) 513-7404  
MR. **DUANE BERNARD, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION**  
PHONE: (301) 513-7341  
MR. **MARK SHAFFER, ASSISTANT DISTRICT ENGINEER - MAINTENANCE**  
PHONE: (301) 615-7304  
MR. **VICTOR GRAFTON, UTILITY ENGINEER**  
PHONE: (301) 513-7350  
MR. **ROBERT SNYDER, ASSIST. CHIEF TRAFFIC OPERATIONS DIVISION**  
PHONE: (410) 787-7630  
MR. **EDWARD RODENHIZER, SUPERVISOR, SIGNAL OPERATIONS**  
PHONE: (410) 787-7652

2. ALL INTERNAL CABINET WIRING SHALL BE PERFORMED BY THE SHA SIGNAL SHOP. CONTRACTOR SHALL CONTACT ED RODENHIZER 72 HOURS PRIOR TO CONSTRUCTION.

**EQUIPMENT LIST**

A. EQUIPMENT TO BE SUPPLIED BY THE STATE HIGHWAY 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	27 FT. STEEL MAST ARM POLE WITH 70 FT. MAST ARM
2	EA	20 FT. LUMINAIRE ARM
2	EA	LED LAMP AND LUMINAIRE
2	EA	VIDEO DETECTOR CAMERA (TERRA)
610	LF	VIDEO DETECTOR CAMERA CABLE
1	EA	VIDEO DETECTION INTERFACE PANEL
6	EA	NON-INVASIVE PROBE (SET OF 3) WITH 500 FT. LEAD-IN CABLE
5	EA	12 IN. 3-SECTION LED SIGNAL HEAD - MAST
1	EA	12 IN. 3-SECTION LED SIGNAL HEAD (RA,YA,GA) - MAST
1	EA	12 IN. 3-SECTION LED SIGNAL HEAD (RA,YA,GA) - SIDE POLE
3	EA	30 IN.X 36 IN. R3-5 REGULATORY SIGN - MAST ARM
2	EA	20 IN.X VAR. D-3(1) SIGN - MAST ARM
2	CY	TEST PIT EXCAVATION
11	EA	HANDHOLE
680	LF	2-CONDUCTOR TRAY CABLE (NO.12 AWG)
495	LF	5-CONDUCTOR CABLE (NO. 14 AWG)
950	LF	7-CONDUCTOR CABLE (NO. 14 AWG)
350	LF	BARE COPPER GROUND WIRE (NO. 6 AWG)
825	LF	3 IN. PVC CONDUIT [SCHEDULE 80] - TRENCHED
210	LF	3 IN. PVC CONDUIT [SCHEDULE 80] - BORED
380	LF	4 IN. PVC CONDUIT [SCHEDULE 80] - BORED
12	CY	CONCRETE FOUNDATION FOR TRAFFIC SIGNAL EQUIPMENT
2	EA	GROUND ROD - 3/4 IN. X 10 FT. LENGTH
60	SF	REMOVE & REPLACE 4 IN. SIDEWALK
LUMP SUM	LS	REMOVE EXISTING SIGNAL EQUIPMENT
1	EA	30"x42" W9-2(4)(L) SIGN - MAST ARM

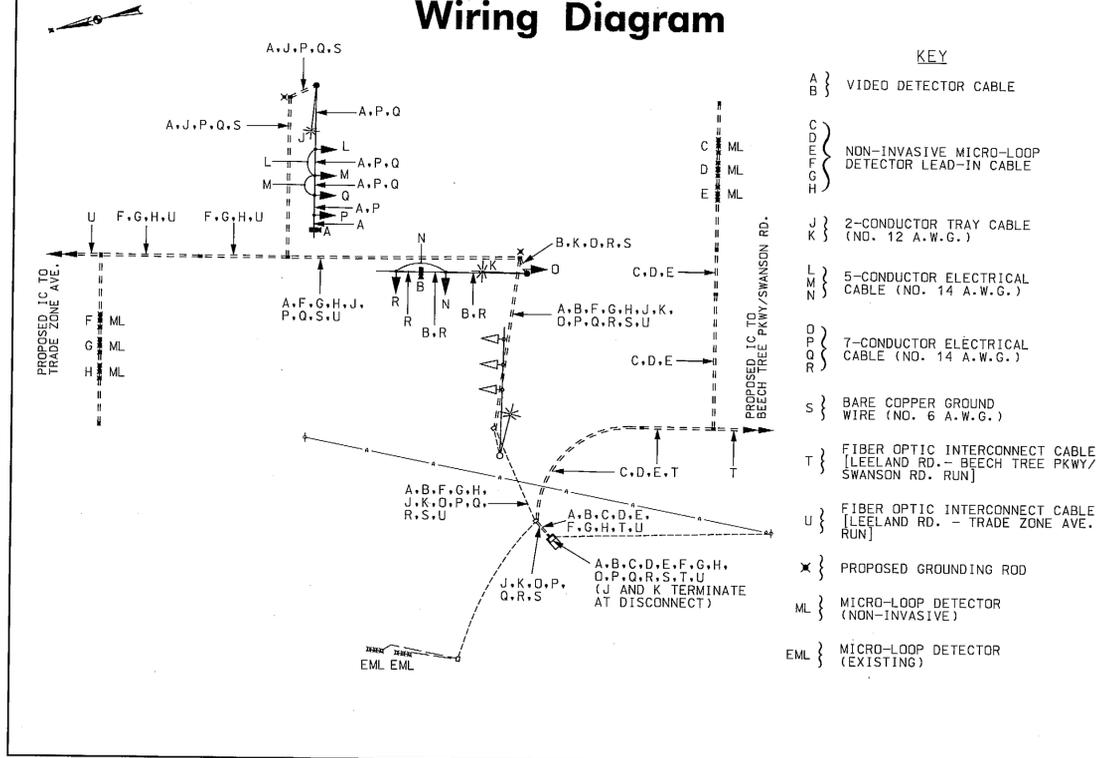
**GENERAL NOTES**

- VIDEO CAMERA LOCATION/ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
- THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
- PAVEMENT MARKINGS DETAILED ARE PROPOSED AND ARE TO BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH MD-SHA STANDARDS. ALL OTHER PAVEMENT MARKINGS ARE TO BE CONSIDERED AS EXISTING.
- GEOMETRICS SHALL BE CONFIRMED PRIOR TO THE INSTALLATION OF SIGNAL EQUIPMENT. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE PROJECT ENGINEER IMMEDIATELY.
- ALL UNUSED CABLE SHALL BE REMOVED.

**Phase Chart**

	1	2	3	4	5	6	7	8	9	10
PHASE 1 AND 6	←G-	←G-	G	G	G	R	R	R	R	R
1 CHANGE	←Y-	←Y-	G	G	G	R	R	R	R	R
PHASE 2 AND 6	←R-	←R-	G	G	G	G	G	R	R	R
2 AND 6 CHANGE	←R-	←R-	Y	Y	Y	Y	Y	Y	R	R
PHASE 4	←R-	←R-	R	R	R	R	R	R	G	G
4 CHANGE	←R-	←R-	R	R	R	R	R	R	Y	Y
FLASHING OPERATION	FL/←R-	FL/←R-	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R

**Wiring Diagram**



MD-AMD Tracking No.: 04APP016

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
US301 (CRAIN HIGHWAY) AT LEELAND ROAD  
UPPER MARLBORO, MARYLAND

**GENERAL INFORMATION PLAN**

SCALE: N/A DATE: AUGUST 3, 2012 CONTRACT NO.: BW996M82  
DESIGNED BY: F. BROWNLEY COUNTY: PRINCE GEORGE'S  
DRAWN BY: F. BROWNLEY LOGMILE: 1603017.35  
CHECKED BY: NAME TIMS NO.: H507  
F.A.P. NO.: N/A TOD NO.: N/A

TS NO. 4892A DRAWING 5G - 01 OF 01 SHEET NO. 2 OF 2

PLOTTED: Thursday, August 02, 2012 AT 04:19 PM  
FILE: F:\2004\2004-0315\dsa\US 301 @ Leeland\2011\FSG-N01\_us301-leeland.dgn

**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"®

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Professional Engineer  
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BY: F. Brownley