

**PROJECT DESCRIPTION**

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THIS PROJECT INVOLVES THE INSTALLATION OF A NEW MAST-ARM AND SIGNAL HEADS NECESSITATED BY THE WIDENING OF MD 201. INCLUDED IS THE REPLACEMENT OF ALL EXISTING SIGNAL HEADS WITH LED SIGNAL HEADS. MD 201 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

**INTERSECTION OPERATION**

THE INTERSECTION WILL OPERATE IN A NEMA THREE-PHASE, SEMI-TRAFFIC-ACTUATED MODE. THE MD 201 THROUGH MOVEMENTS OPERATE CONCURRENTLY.

THE SIGNAL WILL CONTINUE TO BE INTERCONNECTED WITH THE EXISTING SIGNAL AT THE MD 201/I-95 N.B. EXIT RAMP INTERSECTION TO THE NORTH.

**CONTROLLER REQUIREMENTS**

NONE

**EQUIPMENT LIST "A"**

**A. EQUIPMENT TO BE SUPPLIED BY THE SHA**

CATEGORY CODE NO.	QUANTITY	DESCRIPTION
973023	34 SF	SHEET ALUMINUM SIGNS - 2 EACH R3-5L (30 IN X 36 IN) MAST ARM MOUNT - 2 EACH M1-5 (30 IN X 24 IN) GROUND MOUNT - 1 EACH M6-1 (21 IN X 15 IN) GROUND MOUNT - 1 EACH M3-1 (24 IN X 12 IN) GROUND MOUNT - 1 EACH M3-3 (24 IN X 12 IN) GROUND MOUNT - 1 EACH M5-1L (21 IN X 15 IN) GROUND MOUNT

**EQUIPMENT LIST "B"**

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

CATEGORY CODE NO.	QUANTITY	DESCRIPTION
203030	1 CY	TEST PIT EXCAVATION
585424	110 LF	24 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
800000-EA	2 EA	NON-INVASIVE PROBE AND LEAD-IN CABLE (500 FT)
800000-EA	3 EA	NON-INVASIVE PROBE AND LEAD-IN CABLE (1000 FT)
800000-L5	1 LS	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
801004	3 CY	CONCRETE FOR SIGNAL FOUNDATION
801106	32.5 LF	WOOD SIGN SUPPORTS 4 INCH X 6 INCH
801605	55 LF	SHEET ALUMINUM SIGN
801607	34 SF	INSTALL SHEET ALUMINUM SIGN
802501	450 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805115	110 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED
805118	100 LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED
805135	370 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
811001	7 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
818036	1 EA	STEEL POLE WITH A SINGLE 50 FOOT MAST ARM
831010	1 EA	250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE
837001	1 EA	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH
860284	21 EA	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
861107	480 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO.14 AWG)
861116	450 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO.12 AWG)
866104	1 EA	20 FOOT LIGHTING ARM ON SIGNAL STRUCTURE

**PROJECT CONTACTS**

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

**CONTACTS FOR DISTRICT 3:**

MR. BRIAN YOUNG  
ASSISTANT DISTRICT ENGINEER,  
TRAFFIC  
301-513-7358

MR. WAYNE MOWDY  
ASSISTANT DISTRICT ENGINEER,  
MAINTENANCE  
301-513-7304

MR. AUGIE REBISH  
UTILITIES ENGINEER  
301-513-7350

**CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY:**

MR. RICHARD DAFF SR.  
CHIEF, TRAFFIC OPERATIONS  
410-787-7630

MR. ROBERT SNYDER  
ASSISTANT DIVISION CHIEF,  
TRAFFIC OPERATIONS DIVISION  
410-787-7650

MR. ED RODENHIZER  
CHIEF, SIGNAL OPERATIONS  
410-787-7650

MR. EUGENE BAILEY  
CHIEF, SIGN OPERATIONS  
410-787-7676

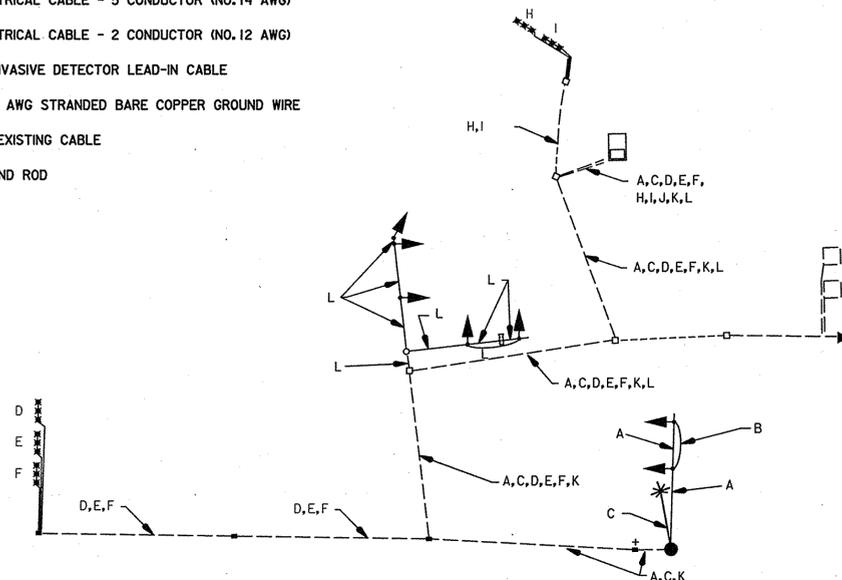
MR. MIKE STOCKER  
SIGNAL SHOP WAREHOUSE  
410-787-7696

**EQUIPMENT LIST "C"**

NONE -EQUIPMENT TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

**WIRING DIAGRAM**

- WIRING KEY**
- A,B ELECTRICAL CABLE - 5 CONDUCTOR (NO.14 AWG)
  - C ELECTRICAL CABLE - 2 CONDUCTOR (NO.12 AWG)
  - D,E,F,H,I, NONINVASIVE DETECTOR LEAD-IN CABLE
  - K NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
  - L USE EXISTING CABLE
  - + GROUND ROD



**PHASE CHART**

	1	2	3	4	5	6	7	
	(R) (Y) (G)							
Phase 2 & 6	G	G	G	G	R	R	R	←
2 & 6 Change	Y	Y	Y	Y	R	R	R	→
Phase 4	R	R	R	R	G	G	G	
Phase 4 Change	R	R	R	R	Y	Y	Y	↓
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	↕

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
**MD 201 (KENILWORTH AVE.) AND  
I-95 SB OFF-RAMP**

REVISION C CONSULTANT  
**WALLACE, MONTGOMERY  
& ASSOCIATES, LLP**  
CIVIL AND STRUCTURAL ENGINEERS  
110 West Road  
Suite 300  
Towson, Maryland 21204

**SIGNAL NOTES**

SCALE	N.T.S.	DATE	NOVEMBER 2006	CONTRACT NO.	PG6495176
DESIGNED BY	FAE	COUNTY	PRINCE GEORGES		
DRAWN BY	FAE	LOGMILE	16020106.93		
CHECKED BY	MJA	T.I.M.S. NO.	H324		
F.A.P. NO.	N/A	TOD NO.			

**TS NO. 2586C-GI** SHEET NO. **14** OF **22**