

**PROJECT DESCRIPTION**

**I. GENERAL**

THIS PROJECT INVOLVES THE INSTALLATION OF APS/CPS OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 27 (RIDGE ROAD) AND HENDERSON CORNER ROAD IN MONTGOMERY COUNTY. MD 27 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

**II. INTERSECTION OPERATION**

THE INTERSECTION OPERATES IN A NEMA TWO-PHASE, FULLY-TRAFFIC-ACTUATED MODE. THERE IS AN EXCLUSIVE LEFT TURN PHASE FOR SOUTH APPROACH OF MD 27 AND RIGHT TURN OVERLAP PHASE FOR HENDERSON CORNER ROAD. THE MD 27 NORTHBOUND THRU MOVEMENT RUNS BY ITSELF AND MD 27 SOUTHBOUND THRU MOVEMENT IS INDEPENDENT OF THE SIGNAL AND IS A FREE FLOW MOVEMENT. THERE IS AN ALTERNATE PEDESTRIAN PHASE FOR THE EAST LEG OF THE INTERSECTION.

**EQUIPMENT LIST FOR CONTRACT NO. XY1515185**

**A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION**

CATEGORY	QUANTITY	UNIT	DESCRIPTION
900000	17	SF	SHEET ALUMINUM GROUND MOUNTED SIGN
	2	EA	W11-2 (30" x 30")
	1	EA	W16-7pL (24" x 12")
	1	EA	W16-7pR (24" x 12")
900000	2	SF	SHEET ALUMINUM MAST ARMPOLE MOUNTED SIGN
	2	EA	R10-3(t) (9" x 15") POLE MOUNTED

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

CATEGORY	QUANTITY	UNIT	DESCRIPTION
100000	1	EA	MAINTENANCE OF TRAFFIC
201032	4	CY	CLASS 2 EXCAVATION
203030	4	CY	TEST PIT EXCAVATION
585617	60	LF	5 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
585412	340	LF	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
585625	90	LF	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
585700	780	LF	REMOVAL OF EXISTING PERMANENT PAVEMENT MARKING LINES, ANY WIDTH
600000	160	LF	TYPE A COMBINATION CURB AND GUTTER ANY HEIGHT OR DEPTH
600000	75	LF	TYPE A CURB ANY HEIGHT OR DEPTH
655105	470	SF	5 INCH CONCRETE SIDEWALK
655120	45	SF	DETECTABLE WARNING SURFACE FOR CURB RAMPS
704345	30	SY	PLACING FURNISHED TOPSOIL 4 INCH DEPTH
705500	30	SY	TURFGRASS ESTABLISHMENT
708220	30	SY	TURFGRASS SOD ESTABLISHMENT
800000	1	EA	2-WIRE APS CENTRAL CONTROL UNIT
800000	2	EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
800000	1	EA	REMOVE & DISPOSE OF EXISTING SIGNAL EQUIPMENT
800000	2	EA	5 FOOT OR 10 FOOT PEDESTAL POLE WITH BREAKAWAY COUPLINGS, FOUNDATION & GROUND ROD
800000	145	LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
800000	30	LF	WOOD SIGN SUPPORTS UP TO 4 INCH X 6 INCH
800000	19	SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
800000	1	EA	THIRD PARTY CONCRETE TESTING
800000	2	EA	RELOCATE EXISTING SIGNAL HEAD INCLUDING NEW MOUNTING HARDWARE
802501	145	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
811001	1	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
861105	190	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861107	200	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

**C. EQUIPMENT TO BE REMOVED.**

ALL OTHER EXISTING SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL.

**CONTACTS**

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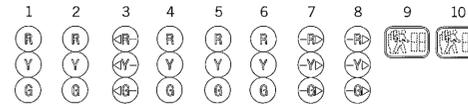
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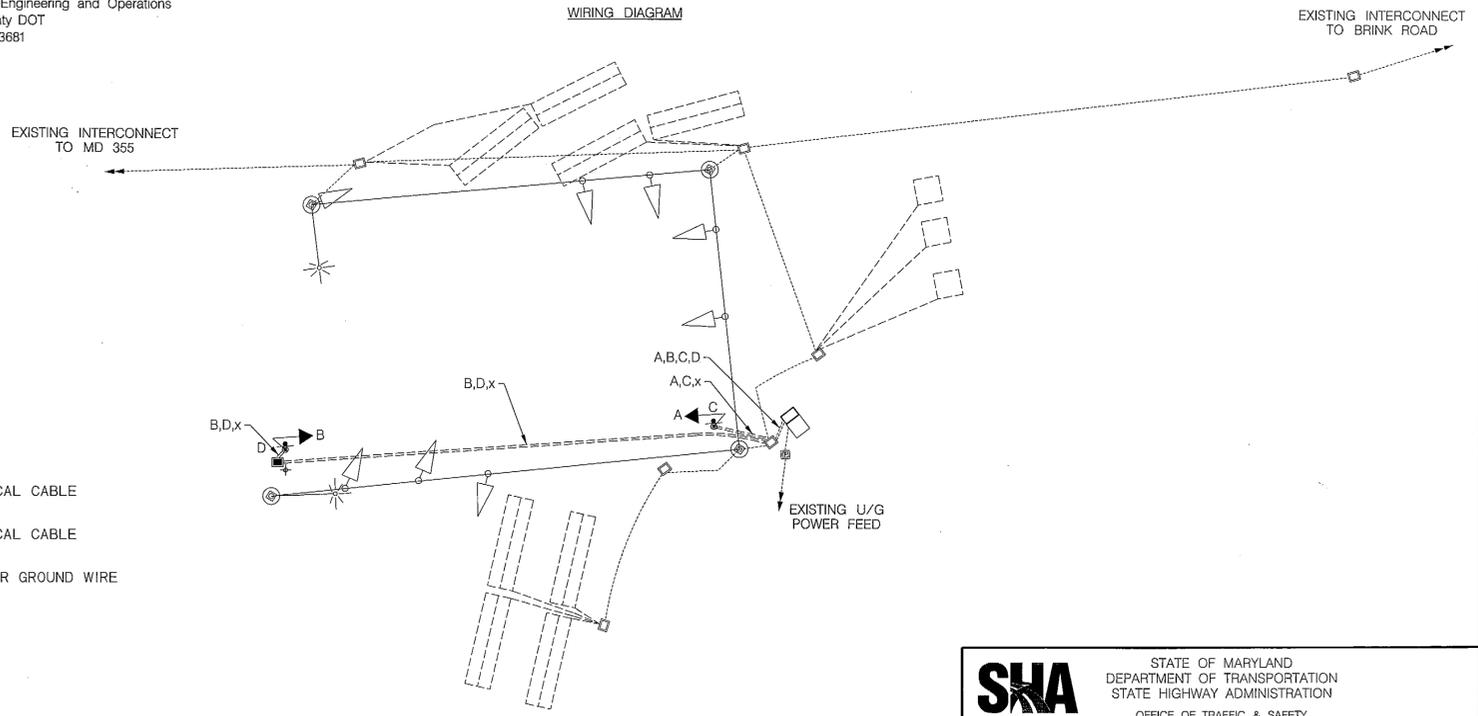
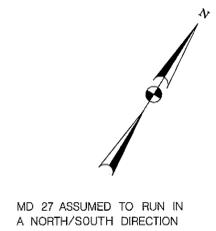
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Montgomery County DOT  
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**PHASE CHART**



PHASE	1	2	3	4	5	6	7	8	9	10
PHASE 6	G	G	←R	R	R	R	R→	R→	DW	DW
6 CHANGE	Y	Y	←R	R	R	R	R→	R→	DW	DW
PHASE 6 ALT	G	G	←R	R	R	R	R→	R→	WK	WK
PED CLEARANCE	G	G	←R	R	R	R	R→	R→	FL/DW	FL/DW
6 ALT CHANGE	Y	Y	←R	R	R	R	R→	R→	DW	DW
PHASE 4	R	R	←G	G	G	G	G→	G→	DW	DW
4 CHANGE	R	R	←Y	Y	Y	Y	Y→	Y→	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK



**WIRING KEY**

- A,B } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- C,D } 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- x } STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)
- + } GROUND ROD

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 27 (RIDGE ROAD) AT  
HENDERSON CORNER ROAD  
GERMANTOWN, MD

**GENERAL INFORMATION PLAN SHEET**

SCALE	NONE	ADVERTISED DATE	03/2013	CONTRACT NO.	XY1515185
DESIGNED BY	NW	COUNTY	MONTGOMERY		
DRAWN BY	NW	LOGMILE	15002700.16		
CHECKED BY	RM	TIMS NO.	L711		
F.A.P. NO.		TOD NO.			

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TS NO. 3404-B	DRAWING	GI-1	OF 1	SHEET NO. 3 OF 3
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BY: fanyong