

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF APS EQUIPMENT AT THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 355 (ROCKVILLE PIKE) AND MD 28 (E JEFFERSON ST) / (VEIRS MILL RD) IN MONTGOMERY COUNTY. MD 355 (ROCKVILLE PIKE) IS ASSUMED TO RUN IN AN NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION

- THE INTERSECTION SHALL CONTINUE TO OPERATE IN A NEMA SIX-PHASE, SEMI-ACTUATED MODE, WITH THE MD 355 (ROCKVILLE PIKE) APPROACHES RUNNING CONCURRENTLY. THE EXCLUSIVE-ONLY LEFT TURN PHASE FOR THE NORTHBOUND AND SOUTHBOUND APPROACHES OF MD 355 (ROCKVILLE PIKE) WILL CONTINUE TO OPERATE AS NORMAL, WITH LEAD/LAG OPERATION. THE NORTHBOUND LEFT TURN IS THE LEADING MOVEMENT AND THE SOUTHBOUND LEFT TURN IS THE LAGGING MOVEMENT. EASTBOUND AND WESTBOUND LEFT TURN MOVEMENTS ARE RESTRICTED FOR MD 28 (E JEFFERSON ST) / (VEIRS MILL RD). COUNTDOWN PEDESTRIAN PHASES WITH AUDIBLE PUSHBUTTON ACTUATION SHALL REMAIN IN OPERATION FOR NORTH AND SOUTH LEGS OF THIS INTERSECTION.
- THE EXISTING EIGHT-PHASE CONTROLLER AND EXISTING NEMA SIZE "6" BASE-MOUNTED CABINET SHALL REMAIN AT THIS INTERSECTION.
- THE EXISTING APS FUNCTIONS AS FOLLOWS:
TO CROSS MD 28 (E JEFFERSON ST)
a. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE "WAIT TO CROSS E JEFFERSON AT ROCKVILLE, WAIT"
b. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.
TO CROSS MD 28 (VEIRS MILL ROAD)
a. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE "WAIT TO CROSS VEIRS MILL AT ROCKVILLE, WAIT"
b. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

THE CONTACT PERSONS FOR DISTRICT #3 (MONTGOMERY COUNTY) ARE AS FOLLOWS:

MR. CEDRIC WARD
ASSISTANT DISTRICT ENGINEER - TRAFFIC
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MR. VERNON STINNETT JR.
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
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MR. VICTOR GRAFTON
UTILITY ENGINEER
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MR. KAMAL HAMUD, MONTGOMERY COUNTY
TRAFFIC ENGINEERING
PHONE: (240) 777-8761

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

MR. ROBERT SNYDER
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410-787-7630

MR. ED RODENHIZER
MANAGER, SIGNAL OPERATIONS
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MR. MIKE STOCKER
SIGNAL WAREHOUSE
PHONE: 410-787-7696

PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	21	22	23	24
PHASE 1 & 6	G	G	G	G	R	R	R	R	R	R	R	R	R	R	DW	DW	WK	WK
1 CHANGE	<-Y-	<-Y-	G	G	R	R	R	R	R	R	R	R	R	R	DW	WK	WK	WK
PHASE 2 & 6	R	R	G	G	R	R	R	R	G	G	R	R	R	R	WK	WK	WK	WK
PED CLEAR / COUNTDOWN	R	R	G	G	R	R	R	G	G	R	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW
2 & 6 CHANGE	R	R	Y	Y	R	R	R	Y	Y	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 & 5	R	R	R	R	<-G-	<-G-	<-G-	G	G	R	R	R	R	R	WK	WK	DW	DW
5 CHANGE	R	R	R	R	<-Y-	<-Y-	<-Y-	G	G	R	R	R	R	R	WK	WK	DW	DW
PHASE 4 & 8	R	R	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW
4 & 8 CHANGE	R	R	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW
FLASHING OPERATION	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE SHA.

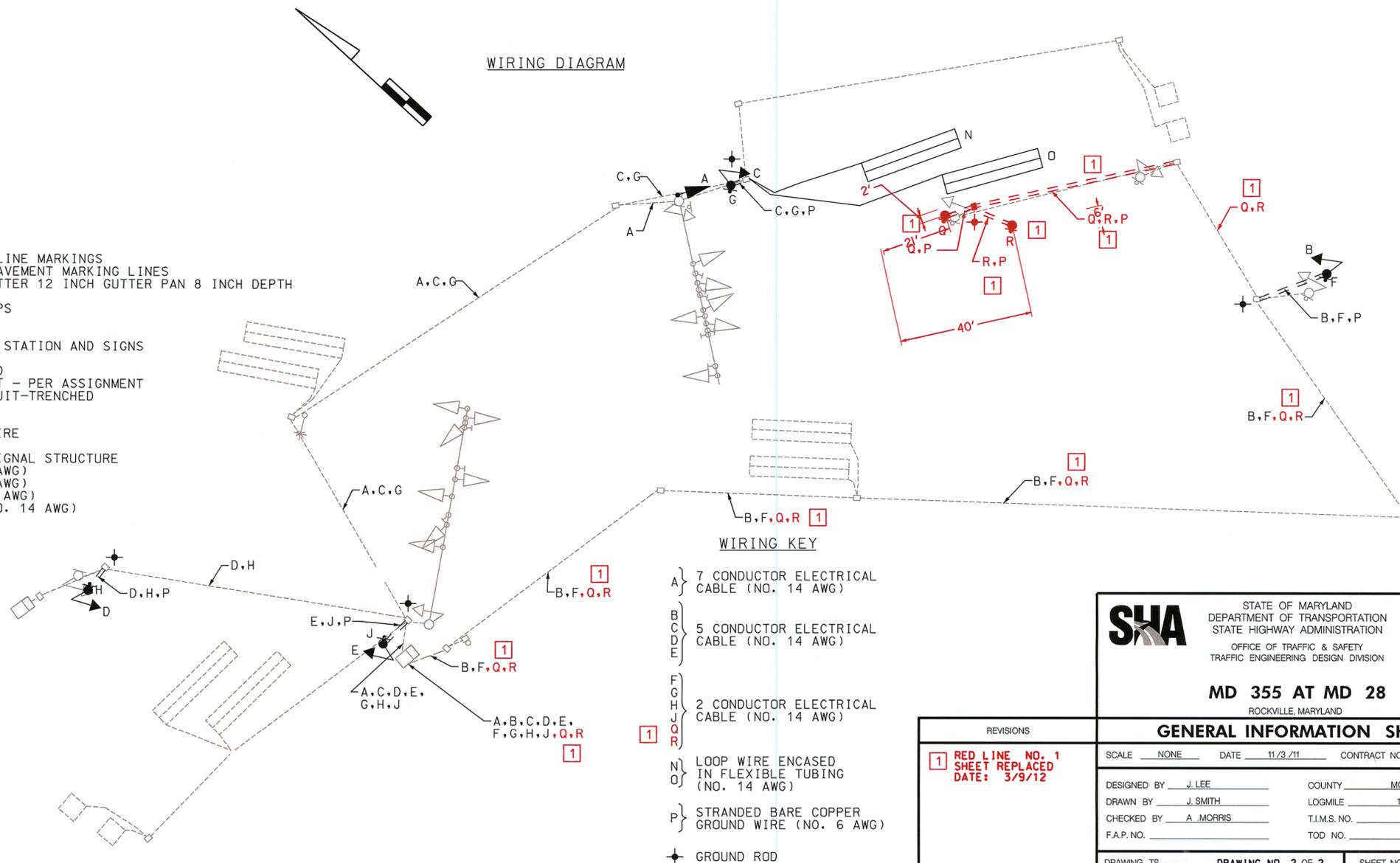
ITEM CODE	QTY	UNITS	DESCRIPTION
9570	69	SF	SHEET ALUMINIUM GROUND MOUNTED SIGNS
	5	EA	W11-2 (30" X 30")
	6	EA	M6-2 (21" X 15")
	1	EA	R3-3 (24" X 24")
	1	EA	R4-7 (24" X 30")
	1	EA	OM1-3 (18" X 18")
	6	EA	R10-3(1) (9" X 15")
	1	EA	M4-5(INTERSTATE) (12" X 24")
	1	EA	M1-1 (30" X 24")

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

ITEM CODE	QTY	UNITS	DESCRIPTION
1001	1	EA	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
2001	18	CY	CLASS 2 EXCAVATION
2002	3	CY	TEST PIT EXCAVATION
5003	890	LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS
5004	650	LF	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
6001	50	LF	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
6002	1,300	SF	5 INCH CONCRETE SIDEWALK
6003	115	SF	DETECTABLE WARNING SURFACE FOR CURB RAMPS
8001	3	EA	12 INCH LED SIGNAL HEAD SECTION
8002	1	EA	2-WIRE CENTRAL CONTROL UNIT
8008	6	EA	AUDIBLE / TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
8009	6	EA	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8015	4	EA	LED 16" COUNTDOWN PEDESTRIAN SIGNAL HEAD
8023	1	EA	REMOVE AND DISPOSE OF EXISTING EQUIPMENT - PER ASSIGNMENT
8039	150	LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
8040	98	LF	WOOD SIGN SUPPORTS UP TO 4' X 6'
8041	69	SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN
8043	150	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8047	1	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8052	6	EA	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
8054	1895	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8056	850	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8057	250	LF	ELECTRICAL CABLE - 7 CONDUCTION (NO. 14 AWG)
8058	710	LF	LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
8059	295	LF	SAW CUT FOR SIGNAL LOOP DETECTOR

C. ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

WIRING DIAGRAM



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

MD 355 AT MD 28
ROCKVILLE, MARYLAND

REVISIONS			GENERAL INFORMATION SHEET		
1	RED LINE NO. 1 SHEET REPLACED DATE: 3/9/12		SCALE	DATE	CONTRACT NO.
			NONE	11/3/11	XX6555185
			DESIGNED BY	J. LEE	COUNTY
			DRAWN BY	J. SMITH	MONTGOMERY
			CHECKED BY	A. MORRIS	LOGMILE
			F.A.P. NO.		15035509.24
					T.I.M.S. NO.
					K709
					TOD NO.
			DRAWING TS	DRAWING NO. 2 OF 2	SHEET NO. 2 OF 2

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