

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF ADA RAMPS AND APS (ACCESSIBLE PEDESTRIAN SIGNALS)/CPS (COUNTDOWN PEDESTRIAN SIGNALS) ACROSS ALL LEGS OF THE INTERSECTION OF MD 586 (VEIRS MILL ROAD) AND RANDOLPH ROAD IN MONTGOMERY COUNTY, MARYLAND.

MD 586 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE EXISTING INTERSECTION OPERATION WILL REMAIN THE SAME.

TYPICAL MESSAGES FOR ACCESSIBLE PED SIGNALS

MD 586 (VEIRS MILL ROAD) AND RANDOLPH ROAD

1. MD 586 (VEIRS MILL ROAD) AND RANDOLPH ROAD- WEST LEG

STREETS AT 90 DEGREES

WAIT: "WAIT TO CROSS VEIRS MILL AT RANDOLPH, WAIT" *

WALK: RAPID TICK

2. RANDOLPH ROAD AND MD 586 (VEIRS MILL ROAD)- NORTH LEG

STREETS AT 90 DEGREES

WAIT: "WAIT TO CROSS RANDOLPH AT VEIRS MILL, WAIT" *

WALK: RAPID TICK

3. MD 586 (VEIRS MILL ROAD) AND RANDOLPH ROAD- EAST LEG

STREETS AT 90 DEGREES

WAIT: "WAIT TO CROSS VEIRS MILL AT RANDOLPH, WAIT" *

WALK: RAPID TICK

4. RANDOLPH ROAD AND MD 586 (VEIRS MILL ROAD)- SOUTH LEG

STREETS AT 90 DEGREES

WAIT: "WAIT TO CROSS RANDOLPH AT VEIRS MILL, WAIT" *

WALK: RAPID TICK

* MESSAGE USED IF DISTANCE FROM NEAREST PUSHBUTTON FOR PERPENDICULAR CROSSING IS < 10'
 ** MESSAGE USED IF CROSSWALK DIVERGES FROM OR CONVERGES WITH PARALLEL TRAFFIC

NOTE: MESSAGES FOR INTERSECTION CONFIGURATIONS, VARYING FROM THE ABOVE ARE TO BE APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET AND CONTROLLER WILL BE USED. THE CONTROLLER WILL BE RETROFITTED TO OPERATE APS EQUIPMENT.

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MS. ANEYSHA MOOKHERJEE
 ASSISTANT DISTRICT ENGINEER - TRAFFIC (MONTGOMERY)
 PHONE: (301) 513-7498

MR. TOM FOUNTAIN
 ASSISTANT DISTRICT ENGINEER - MAINTENANCE
 PHONE: (301) 513-7304

MR. VICTOR GRAFTON
 ASSISTANT UTILITY ENGINEER
 PHONE: (301) 513-7350

MR. KAMAL HAMUD
 TEAM LEADER, TRAFFIC SIGNALS
 MONTGOMERY COUNTY DOT - DIVISION OF TRAFFIC ENGINEERING AND OPERATIONS
 PHONE: (240) 777-8761

SONNY BAILEY
 MANAGER, OOTS SIGN OPERATIONS
 PHONE: (410) 787-7670

MS. CORREN JOHNSON
 CHIEF, TRAFFIC OPERATIONS DIVISION
 PHONE: (410) 787-7630

MR. ED RODENHIZER
 MANAGER, OOTS SIGNAL OPERATIONS
 PHONE: (410) 787-7652

MR. MICHAEL A. STOCKER
 OOTS/SIGNAL WAREHOUSE
 PHONE: (410) 787-7696

MR. CHRIS ROMAINE
 TRAFFIC SIGNALS SHOP
 MONTGOMERY COUNTY DOT - DIVISION OF TRAFFIC ENGINEERING AND OPERATIONS
 PHONE: (240) 777-8762

MR. BOB RICKETTS
 MONTGOMERY COUNTY TECHNICAL CENTER SUPERVISOR
 PHONE: (240) 876-3681

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT. ADDITIONAL TRAFFIC CONTROL STANDARDS MAY BE USED AS DIRECTED BY THE ENGINEER.

STANDARD NO. MD-104.06-11 (MOBILE SERVICE WORK)

STANDARD NO. MD-104.04-03 (LEFT LANE CLOSURE)

STANDARD NO. MD-104.04-05 (RIGHT LANE CLOSURE)

STANDARD NO. MD-104.04-13 (LEFT TURN BAY CLOSURE)

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←
PHASE 1 + 6	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	DW							
1 + 6 CHANGE	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	DW							
PHASE 2 + 5	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	DW							
2 + 5 CHANGE	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	DW							
PHASE 2 + 6	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	DW							
PED CLEARANCE	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	FLDW	FLDW	FLDW	FLDW	DW	DW	DW	DW
2 + 6 CHANGE	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	DW							
PHASE 4 AND 8	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	DW							
4 AND 8 CHANGE	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	DW							
PHASE 4 AND 8 ALT.	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	DW	DW	DW	DW	WK	WK	WK	WK
PED CLEARANCE	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	DW	DW	DW	DW	FLDW	FLDW	FLDW	FLDW
4 + 8 ALT. CHANGE	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	DW							
FLASHING OPERATION	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	DARK							

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

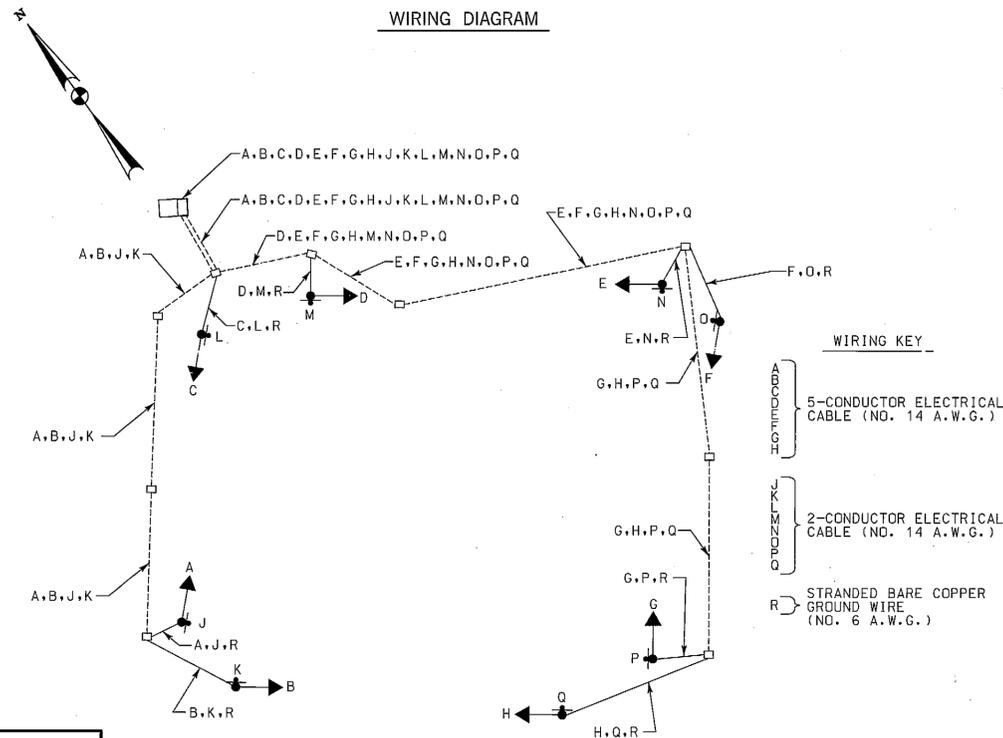
ITEM NO.	QUANTITY	DESCRIPTION
9571	8 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF (POLE MOUNT) :
	- 4 EACH	R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS VEIRS MILL RD"
	- 4 EACH	R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS RANDOLPH RD"

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

1. ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR

WIRING DIAGRAM



EQUIPMENT LIST "B"

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	2 EACH	MAINTENANCE OF TRAFFIC
2001	1 C.Y.	CLASS 2 EXCAVATION
2002	8C.Y.	TEST PIT EXCAVATION
5002	120 L.F.	5 INCH HEAT APPLIED WHITE OR YELLOW PERMANENT PAVEMENT MARKINGS
5003	1040 L.F.	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS
5004	875 L.F.	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
5005	215 L.F.	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
6001	290 L.F.	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
6002	1690 S.F.	5 INCH CONCRETE SIDEWALK
6003	111 S.F.	DETECTABLE WARNING SURFACE FOR CURB RAMPS
8002	1 EACH	2-WIRE CENTRAL CONTROL UNIT
8008	8 EACH	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION & SIGNS
8009	8 EACH	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8018	8 EACH	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD
8019	50 EACH	LED SIGNAL HEAD MODULES (ANY SIZE)
8027	1 EACH	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8043	175 L.F.	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8044	15 L.F.	WOOD SIGN SUPPORTS UP TO 4" X 6"
8045	13 S.F.	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8047	285 L.F.	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8058	1680 L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8060	1725 L.F.	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

TOD NO: XY132-15
 SHA NO: MO458B5A
 MD 586 (Veirs Mill Rd) @ Randolph Rd

SHA STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 OFFICE OF TRAFFIC & SAFETY
 TRAFFIC ENGINEERING DESIGN DIVISION
 MD 586 (VEIRS MILL ROAD) AND RANDOLPH ROAD
 (SILVER SPRING, MD)

GENERAL INFORMATION SHEET

SCALE NONE DATE JANUARY 2013 CONTRACT NO. XY1325185

DESIGNED BY G. PECK COUNTY MONTGOMERY
 DRAWN BY G. PECK LOGMILE 15058803.48
 CHECKED BY J. MOCNY TMS NO. L486
 F.A.P. NO. TOD NO.

WR&A
 WHITMAN, REQUARDT & ASSOCIATES, LLP
 801 South Caroline Street, Baltimore, Maryland 21231

TS NO. 4035B DRAWING TSP-4 OF 4 SHEET NO. 4 OF 4