

GENERAL
 THIS PROJECT INVOLVES THE INSTALLATION OF ACCESSIBLE PEDESTRIAN PUSHBUTTONS AND COUNTDOWN LED SIGNALS AT THE INTERSECTION OF EB MD 193 (UNIVERSITY BOULEVARD) AND SPUR OF WB MD 193 (UNIVERSITY BOULEVARD) IN MONTGOMERY COUNTY.

MD 193 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA TWO PHASE, SEMI-ACTUATED TRAFFIC MODE. THE EXISTING MAINLINE AND SIDE STREET ALTERNATE PEDESTRIAN PHASES WILL REMAIN.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET AND CONTROLLER SHALL REMAIN. THE MONTGOMERY COUNTY TECH CENTER WILL INSTALL ONE (1) 2-WIRE CENTRAL CONTROL UNIT WITHIN THE CABINET.

APS WILL FUNCTION AS FOLLOWS:

TO CROSS UNIVERSITY BOULEVARD

- A. WHEN A PEDESTRIAN LOCATES AND PASSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS UNIVERSITY AT RAMP."
- B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

TO CROSS RAMP

- A. WHEN A PEDESTRIAN LOCATES AND PASSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS RAMP AT UNIVERSITY."
- B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

District #3

Mr. Jeff Wentz
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 District Utility Engineer
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Office Of Traffic & Safety

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 Team Leader Signal Operations
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 Team Leader Sign Operations
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The Power Company Representative is:
 Potomac Electric Power Company
 8300 Old Marlboro Pike
 Upper Marlboro, Maryland 20772
 Phone: 301-961-5325

Montgomery County

Mr. Kamal Hamud
 Montgomery County Traffic Engineering
 Phone: 240-777-8761

Mr. Kelth Lord
 Montgomery County Tech Center
 Phone: 301-279-1291

EQUIPMENT LIST 'A'

CATEGORY CODE	QUANTITY	DESCRIPTION
973023	4 SF	SHEET ALUMINUM SIGNS: 2 EA - R10-3(1) (9 IN. x 15 IN.) "PUSH BUTTON TO CROSS UNIVERSITY BLVD." 2 EA - R10-3(1) (9 IN. x 15 IN.) "PUSH BUTTON TO CROSS RAMP"

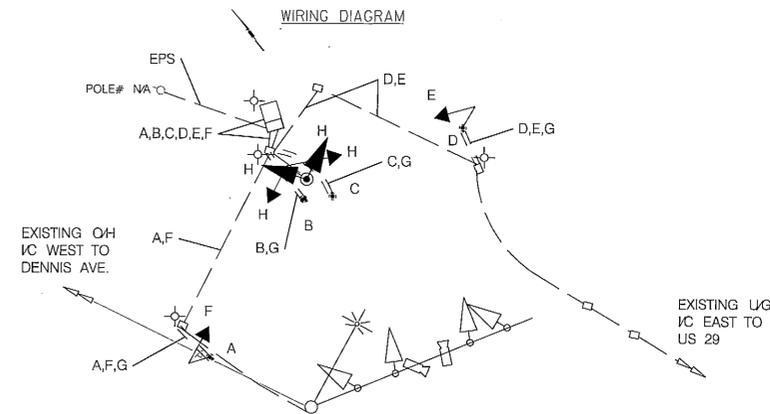
EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

CATEGORY CODE	QUANTITY	DESCRIPTION
203030	2 CY	TEST PIT EXCAVATION
585621	225 LF	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
585625	55 LF	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
800000	1 EA	2 WIRE CENTRAL CONTROL UNIT
800000	6 EA	12 INCH LED SIGNAL HEAD MODULE
800000	4 EA	ACCESSIBLE PEDESTRIAN PUSHBUTTON
800000	4 EA	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD SECTION - POLE MOUNT
800000	1 EA	REMOVE AND DISPOSE OF TRAFFIC SIGNAL EQUIPMENT
801004	2 CY	CONCRETE FOR SIGNAL FOUNDATION
802501	60 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805135	60 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
813015	4 SF	INSTALL OVERHEAD SIGN
818004	4 EA	10 FOOT BREAKAWAY PEDESTAL POLE
860292	2 EA	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
861105	250 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861107	200 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

EQUIPMENT LIST 'C'

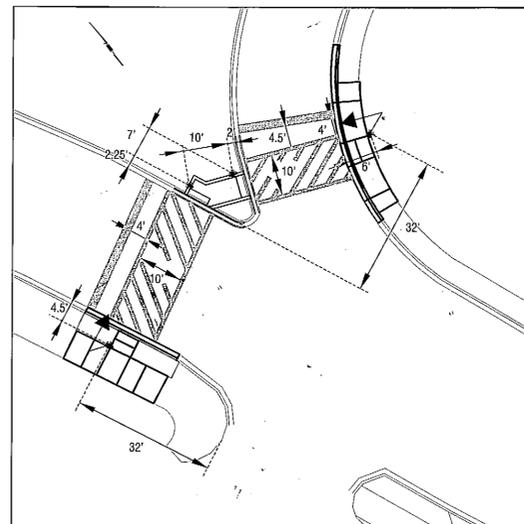
EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

CATEGORY CODE	QUANTITY	DESCRIPTION
NONE		ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR



- ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
- ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
- NO. 6 STRANDED BARE COPPER GROUND WIRE
- USE EXISTING CABLE
- EXISTING POWER SERVICE
- EXISTING GROUND ROD - 3/4 IN. DIAMETER X 10 FOOT LENGTH

SIGNAL POLE AND PAVEMENT MARKING LAYOUT
 NOT TO SCALE



PHASE CHART	1	2	3	4	5	6	7	8	9	10
	R Y G	R Y G	R Y G	R Y G	R Y G	R Y G	W K	W K	D W	D W
PHASE 2	G	G	G	R	R	R	W K	W K	D W	D W
PED. CLEARANCE	G	G	G	R	R	R	F L O W	F L O W	D W	D W
PHASE 2 CHANGE	Y	Y	Y	R	R	R	D W	D W	D W	D W
PHASE 4	R	R	R	G	G	G	D W	D W	D W	D W
PHASE 4 CHANGE	R	R	R	Y	Y	Y	D W	D W	D W	D W
PHASE 4 ALT.	R	R	R	G	G	G	D W	D W	W K	W K
PED. CLEARANCE	R	R	R	G	G	G	D W	D W	F L O W	F L O W
PHASE 4 ALT. CHANGE	R	R	R	Y	Y	Y	D W	D W	D W	D W
FLASHING OPERATION	F L Y	F L Y	F L Y	F L R	F L R	F L R	D A R K	D A R K	D A R K	D A R K

SHA STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 OFFICE OF TRAFFIC & SAFETY
 TRAFFIC ENGINEERING DESIGN DIVISION
 EB MD 193 (UNIVERSITY BOULEVARD) AT
 SPUR OF WB MD 193 (UNIVERSITY BOULEVARD)

GENERAL INFORMATION

SCALE 1" = 20' ADVERTISED DATE 3/20/09 CONTRACT NO. MO2945177

DESIGNED BY MCG COUNTY MONTGOMERY
 DRAWN BY MCG LOGMILE 15019304.22
 CHECKED BY BAB TMS NO. J118
 F.A.P. NO. TOD NO.

TS NO. 3533C-GI DRAWING 5G-04 OF 04 SHEET NO. OF

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