

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES INSTALLING APS/CPS PEDESTRIAN EQUIPMENT ON THE NORTH AND WEST LEGS OF THE INTERSECTION. MD 197 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION

THIS INTERSECTION OPERATES IN A NEMA SIX-PHASE FULLY-TRAFFIC-ACTUATED MODE WITH EXCLUSIVE LEFT TURN PHASES FOR NORTHBOUND AND SOUTHBOUND MD 197. MONTPELIER DRIVE AND BROCK BRIDGE ROAD ARE SPLIT PHASED. AN ALTERNATE PEDESTRIAN PHASE IS PROVIDED ACROSS THE NORTH LEG OF THE INTERSECTION. A CONCURRENT PEDESTRIAN PHASE IS PROVIDED ACROSS THE WEST LEG OF THE INTERSECTION.

III. PEDESTRIAN OPERATION

NAVIGATOR AUDIBLE PEDESTRIAN PUSHBUTTONS TO CROSS THE WEST AND NORTH LEG OF THE INTERSECTION ARE TO BE PROVIDED. WHEN THE PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE THE FOLLOWING MESSAGE:

NORTH: "WAIT TO CROSS LAUREL-BOWIE AT MONTPELIER, WAIT."
WEST: "WAIT TO CROSS MONTPELIER AT LAUREL-BOWIE, WAIT."

1. CONTACT PERSONS

THE CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

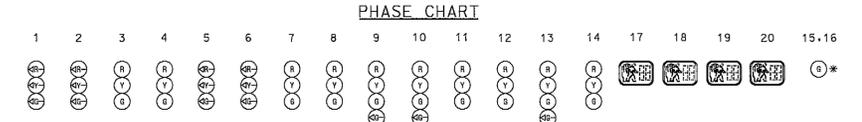
DISTRICT	OFFICE OF TRAFFIC AND SAFETY
MS. SHANEKA OWENS TEAM LEADER (P.G. COUNTY) - TRAFFIC 301-513-7424	MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS 410-787-7630
MR. DUANE BERNARD ASSISTANT DISTRICT ENGINEER - CONSTRUCTION 301-513-7385	MR. ED RODENHIZER MANAGER, SIGNAL OPERATIONS 410-787-7650
MR. MARK SHAFFER ASSISTANT DISTRICT ENGINEER - MAINTENANCE 301-513-7304	MR. EUGENE BAILEY MANAGER, SIGN OPERATIONS 410-787-7670
MR. VICTOR GRAFTON DISTRICT UTILITY ENGINEER 301-513-7350	MR. MIKE STOCKER SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE) 410-787-7668

2. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING THE FOLLOWING STANDARD PLATES FOR TRAFFIC CONTROL: MD 104.04-13 THROUGH MD 104.04-16.

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION			
ITEM NO.	QUANTITY	UNIT	DESCRIPTION
9571	22	SF	SHEET ALUMINUM SIGNS CONSISTING OF: D-3(1), DUAL FACED (16"XVAR.), MAST ARM MOUNT- 1 EACH
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR			
ITEM NO.	QUANTITY	UNIT	DESCRIPTION
1001	2	EA	MAINTENANCE OF TRAFFIC
2001	15	CY	CLASS 2 EXCAVATION
2002	2	CY	TEST PIT EXCAVATION
5003	900	LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS
5004	1100	LF	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
5005	160	LF	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
6001	33	LF	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
6002	473	SF	5 INCH CONCRETE SIDEWALK
6003	30	SF	DETECTABLE WARNING SURFACE FOR CURB RAMP
8002	1	EA	2 WIRE CENTRAL CONTROL UNIT
8008	4	EA	FURNISH AND INSTALL AUDIBLE/TACTILE PEDESTRIAN PUSH BUTTON STATION AND SIGNS
8009	4	EA	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8018	4	EA	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD
8027	1	EA	REMOVE AND DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8043	50	LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8044	16	LF	WOOD SIGN SUPPORTS UP TO 4 FOOT X 6 FOOT
8045	22	SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8047	50	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8058	800	LF	ELECTRICAL CABLE-2 CONDUCTOR (NO. 14 AWG)
8060	800	LF	ELECTRICAL CABLE-5 CONDUCTOR (NO. 14 AWG)

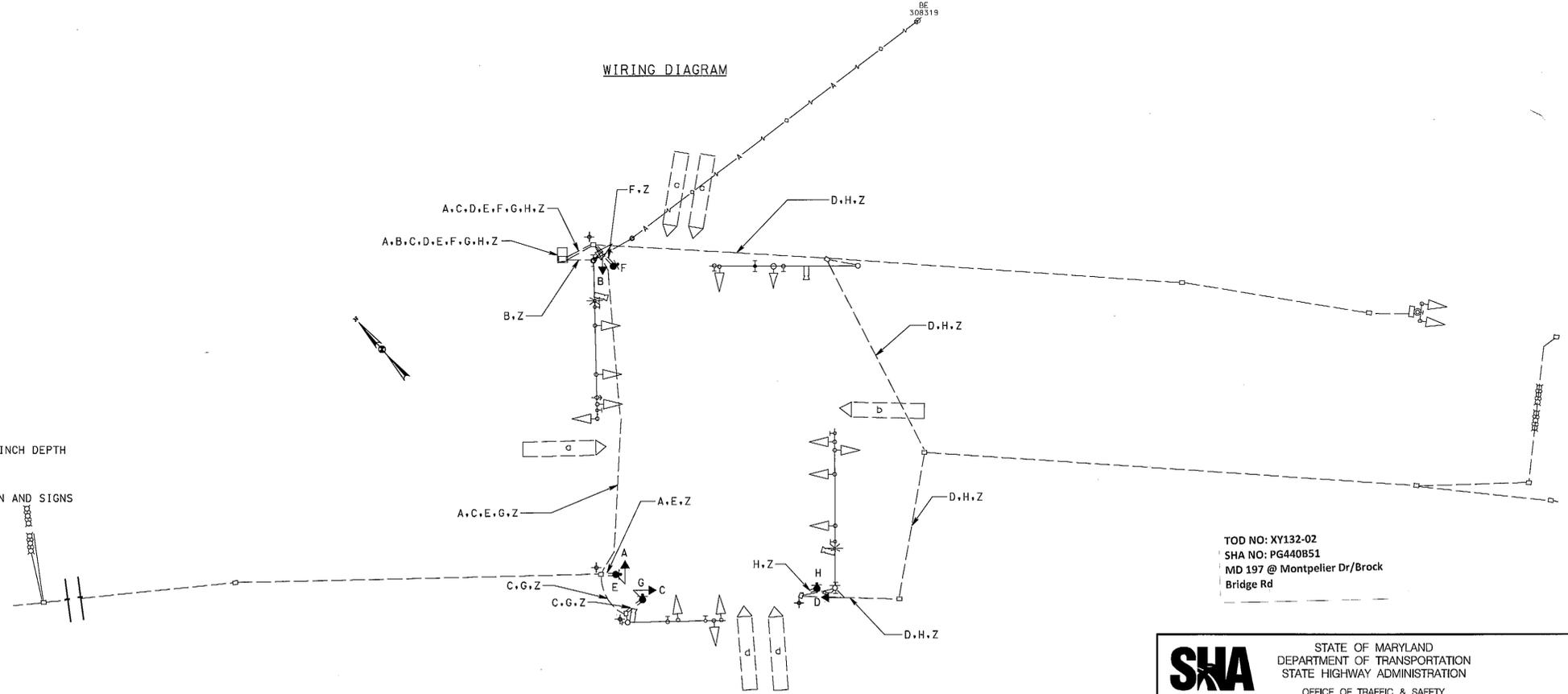
C. ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.



PHASE 1 & 5	<G-	<G-	R	R	<G-	<G-	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
1 & 5 CHANGE	PHASE 1 & 5 MAY CHANGE TO PHASE 1 & 6, 2 & 5 OR 2 & 6																				
PHASE 1 & 6	<G-	<G-	G	G	<R-	<R-	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
1 CHANGE	<Y-	<Y-	G	G	<R-	<R-	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 & 5	<R-	<R-	R	R	<G-	<G-	G	G	R	R	R	R	R	R	R	R	R	DW	DW	WK	WK
5 CHANGE	<R-	<R-	R	R	<Y-	<Y-	G	G	R	R	R	R	R	R	R	R	R	DW	DW	WK	WK
PHASE 2 & 6	<R-	<R-	G	G	<R-	<R-	G	G	R	R	R	R	R	R	R	R	R	DW	DW	WK	WK
PED CLEAR	<R-	<R-	G	G	<R-	<R-	G	G	R	R	R	R	R	R	R	R	R	DW	DW	FLDW	FLDW
2 & 6 CHANGE	<R-	<R-	Y	Y	<R-	<R-	Y	Y	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 3	<R-	<R-	R	R	<R-	<R-	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
3 CHANGE	<R-	<R-	R	R	<R-	<R-	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 3 ALT.	<R-	<R-	R	R	<R-	<R-	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PED CLEAR	<R-	<R-	R	R	<R-	<R-	R	R	R	R	R	R	R	R	R	R	R	DW	DW	FLDW	FLDW
3 ALT. CHANGE	<R-	<R-	R	R	<R-	<R-	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 4	<R-	<R-	R	R	<R-	<R-	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
4 CHANGE	<R-	<R-	R	R	<R-	<R-	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PRE-EMPTION #1	<G-	<G-	G	G	<R-	<R-	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PRE-EMPTION CHANGE	<Y-	<Y-	Y	Y	<R-	<R-	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
FLASHING OPERATION	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/Y	FL/Y	FL/R	DARK	DARK	DARK	DARK								

* SIGNALS 15 AND 16 WILL FLASH ALTERNATING DURING SCHOOL CROSSING ONLY

WIRING DIAGRAM



WIRING KEY

- A,B,C,D - ELECTRICAL CABLE-5 CONDUCTOR (NO. 14 AWG)
- E,F,G,H - ELECTRICAL CABLE-2 CONDUCTOR (NO. 14 AWG)
- Z - NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
- + - GROUND ROD

TOD NO: XY132-02
SHA NO: PG440B51
MD 197 @ Montpelier Dr/Brock Bridge Rd

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 197 AND MONTPELIER DRIVE/BROCK BRIDGE ROAD
MONTPELIER, MARYLAND

GENERAL INFORMATION SHEET

SCALE	N.T.S.	9/2012	CONTRACT NO.	XY1325185
DESIGNED BY	AMH	COUNTY	PRINCE GEORGES	
DRAWN BY	AF	LOGMILE	16019712.71	
CHECKED BY	JFL	TMS NO.	K-069	
F.A.P. NO.	SEE TITLE SHEET	TOD NO.		

TS NO. 2546 H	DRAWING SG-2	OF 2	SHEET NO. 2 OF 2
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BY: MKabergiele

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