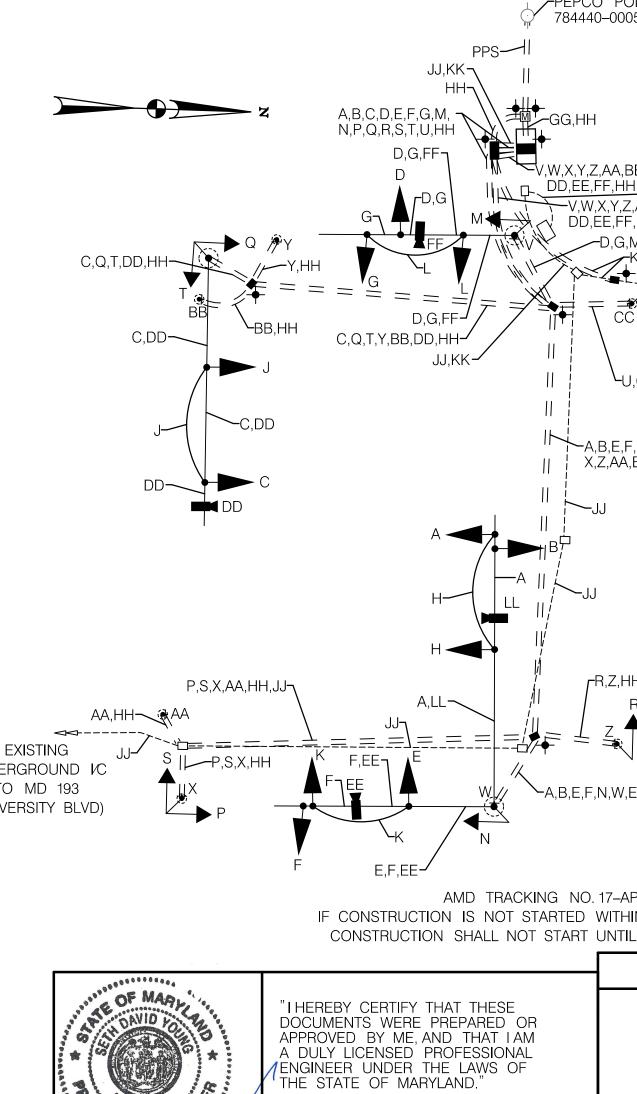
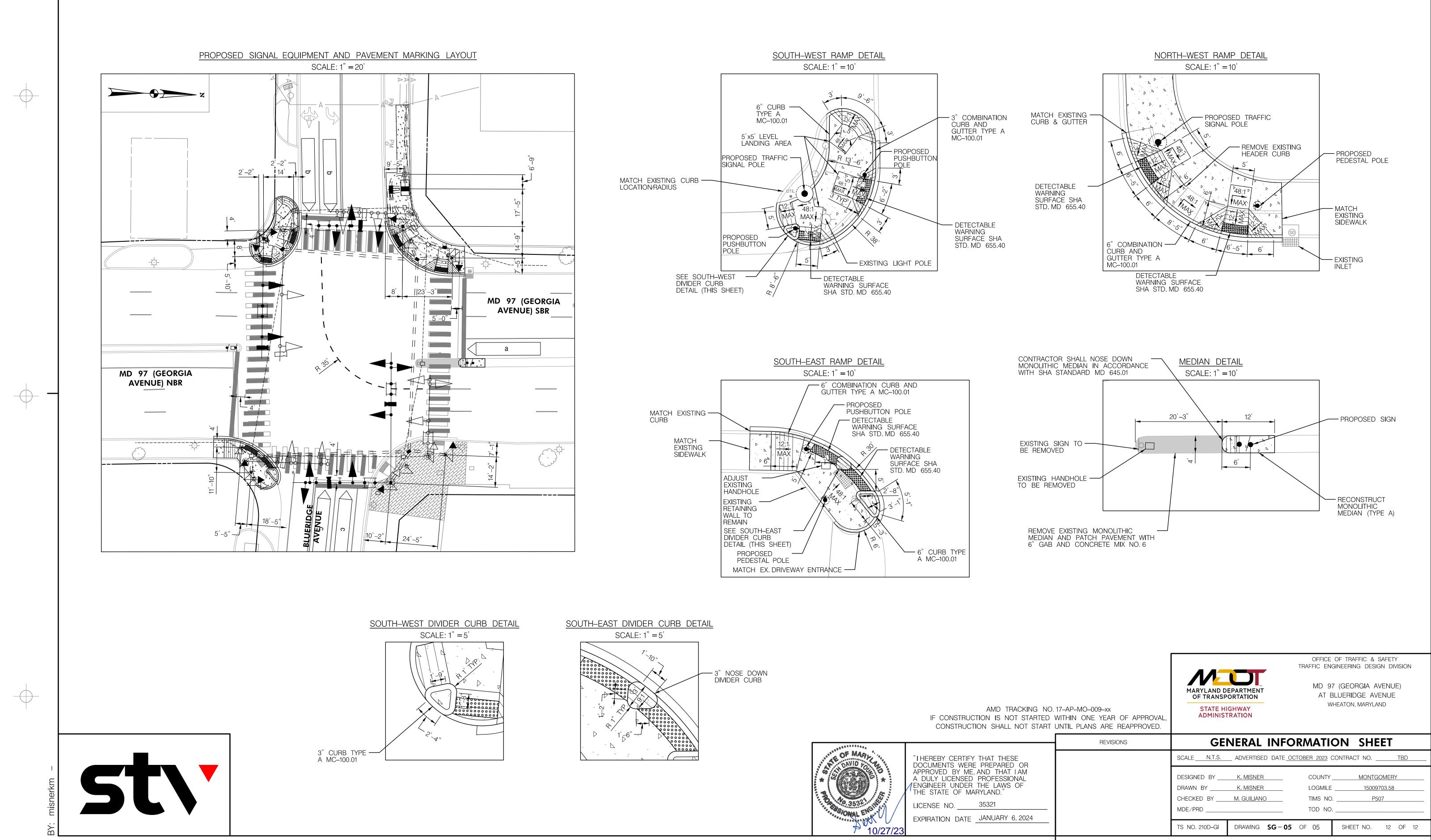


Γ	PROJECT DES	CRIPTION	EQUIPMENT LIST				<u>Phase chart</u>								
	I. GENERAL		EQUIPMENT T	TO BE FURNIS	HED AND INST	ALLED BY THE CONTRACTOR		1 2	3 4 5 6 7	8 9 10) 11	12 13 14	15 16	17 18 19	9
	THIS PROJECT INVOLVES THE RECONSTRUCT WITH SIGNING UPGRADES AND HD IP-BASE		CAT. CODE	ITEM NO	<u>QUANTITY</u>	DESCRIPTION									
	EQUIPMENT (1-4 CAMERAS) AT THE INTERSEC	TION OF MD 97 (GEORGIA AVENUE) AND	120510	1001	35 DAYS	MAINTENANCE OF TRAFFIC (MOT)		(R) (R)	$\begin{array}{c c} R \\ \hline R \\$	$\left(\begin{array}{c} R \\ \end{array}\right) \left(\begin{array}{c} R \\ \end{array}\right) \left(\left(\begin{array}{c} R \\ \end{array}\right) \left(\left(\left(\begin{array}{c} R \\ \end{array}\right) \left(\left(\left(\left(R \right) \right) \right) \left(\left(\left(\left(R \right) \right) \left(\left(\left(\left(R \right) \right) \right) \left(\left(\left(\left(\left(R \right) \right) \right) \left(\left(\left(\left(\left(\left(R \right) \right) \right) \right) \left(\left(\left(\left(\left(\left(\left(\left(\left(\left(\left(\left(\left(\left(\left(\left(\left(\left(\left($	$\left\langle \left \left \left(\begin{array}{c} R \right) \right \right\rangle \right\rangle$				
	BLUERIDGE AVENUE IN MONTGOMERY COUN	ITY.	203030	2002	16 CY	TEST PIT EXCAVATION		(\mathbf{Y})			5 (<u>v</u>) 🛽				
	MD 97 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.		549800 634312	5000 5000	630 LF 225 LF	REMOVAL OF EXISTING PAVEMENT MARKINGS, ANY WIDTH STANDARD TYPE A CURB, 6"x 14"		(G) (G)		G G	(G)				
			520113 500000	5002 5011	9 SY 2 CY	6" BASE COURSE – AGGREGATE BASE ROADWAY PATCH WITH CONCRETE MIX NO.6	PHASE 2 AND 5	 			R V	NK DW DW	WK DW	DW DW DV	V 00
	THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA FIVE (5) PHASE,		648140	5014	12 LF	MONOLITHIC CONCRETE MEDIAN TYPE A (4'0" WIDE)	PHASE 5 CHANGE	R R	←Y⁄G ←Y⁄G G R R	R R R	R V	WK DW DW	WK DW		V .
	FULLY-ACTUATED MODE, WITH SOUTHBOUND EXCLUSIVE/PERMISSIVE LEFT TURN PHASING AND SIDE-STREET SPLIT PHASING THE CONCURRENT MAINLINE AND		600000 655104	5015 5016	20 LF 180 SY	REMOVAL OF EXISTING MEDIAN, 2'-4' WIDTH 4" CONCRETE SIDEWALK, MIX NO. 2	PHASE 2 AND 6					WK WK WK	WK DW		$V \rightarrow V \rightarrow V$
\rightarrow	ALTERNATIVE SIDE STREET PEDESTRIAN PHASES WILL REMAIN.		655390	5018	60 SY	REMOVE AND RESTORE ORNAMENTAL BRICK SIDEWALK	PED CLEARANCE								
-			210025 210011	5019 5020	10 SY 100 LF	REMOVAL OF EXISTING PAVEMENT REMOVAL OF CURB AND GUTTER						DW FLDW FLDW			
I	INSTALL A NEW EIGHT (8) PHASE FULLY-ACTUATED SIGNAL ASC 3 CONTROLLER,		210010 210026	5021 5022	110 LF 1600 SF	REMOVAL OF CURB ONLY REMOVAL OF SIDEWALK	PHASE 2 AND 6 CHANGE	Y Y	Y Y Y R R			DW DW DW	DW DW	DW DW DV	
	INSTALL A NEW EIGHT (8) PHASE FOLLT-ACTUATED SIGNAL ASC S CONTROLLER, IP-BASED VIDEO DETECTION INTERFACE, 2-WIRE CENTRAL CONTROL UNIT, AND ALL OTHER ASSOCIATED EQUIPMENT AND HARNESSES WITHIN THE CABINET. IV. SPECIAL NOTES		971043	8000	1 EA	CABINET EXTENSION BASE, SIZE "S"	PHASE 3	R R	R R R G/+G G/+G	G R R		DW DW DW	DW DW	DW DW DV	
			871202	8000	1 EA	FURNISH AND INSTALL STANDARD NEMA SIZE "S" SIGNAL CABINET AND AUXILIARY EQUIPMENT	PHASE 3 CHANGE	R R	R R R Y Y	Y R R		DW DW DW	DW DW	DW DW DV	
			802145	8000	1 EA	ADJUST EXISTING HANDHOLE	PHASE 3 ALT.	R R	R R R G/4-G G/4-G	G R R	R	DW DW DW	DW DW	WK WK DV	V _Y H
	1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL		811000 801004	8000 8001	1 EA 13 CY	OVERSIZED ELECTRICAL HANDHOLE CONCRETE FOUNDATION	PED CLEARANCE	R R	R R R G/+G G/+G	G R R	R	DW DW DW	DW DW	FL/DW FL/DW DV	
	CABLES TO THE APPROPRIATE TERMINALS AND SHALL PROPERLY LABEL EACH CABLE.		805125	8019	85 LF	2" POLYVINYL CHLORIDE ELECTRICAL CONDUIT (SCHEDULE 80) (TRENCHED)	PHASE 3 ALT. CHANGE	R R	R R R Y Y	Y R R		wd wd wd	DW DW	DW DW DV	$\mathbf{v} \stackrel{H}{\overset{\vee}{}}_{-}$
	 ALL CONTROLLER CABINET WIRING WILL BE PERFORMED BY MONTGOMERY COUNTY FORCES. CONTACT MR. KAMAL HAMUD, AT (240) 777–8761, SEVENTY–TWO (72) HOURS IN ADVANCE OF INTENDED WORK. 		805135	8023	90 LF	3" POLYVINYL CHLORIDE ELECTRICAL CONDUIT (SCHEDULE 80)	PHASE 4	R R	R R R R R	R G/4-G G/4	-G G [DW DW DW	DW DW	DW DW DV	v <u> </u>
			805140	8027	155 LF	(TRENCHED) 4" POLYVINYL CHLORIDE ELECTRICAL CONDUIT (SCHEDULE 80)	PHASE 4 CHANGE	R R	R R R R R	Y Y Y	Y E	DW DW DW	DW DW	DW DW DV	
				8029	225 LF	(TRENCHED) 4" POLYVINYL CHLORIDE ELECTRICAL CONDUIT (SCHEDULE 80)	PHASE 4 ALT.	RR		R G/4-G G/4	-G G T	DW DW DW	DW WK	DW DW WI	K T
	APS WILL FUNCTION AS FOLLOWS:		805155			(SLOTTED)	PED CLEARANCE	RR		R G∕ - G G∕4		DW DW DW	DW FL/DW	DW DW FL/D	$\overline{\mathbf{w}} \sim \overline{\mathbf{h}}$
	FOR MD 97 (GEORGIA AVENUE) A. WHEN A PEDESTRIAN LOCATES AND PF		807207	8035	1 EA	200 AMP, 120⁄240 VOLT, 1 PHASE, 3 WIRE ELECTRICAL SERVICE PEDESTAL AND CONCRETE COLLAR	PHASE 4 ALT. CHANGE			R V V	γ Γ	WO WO WO	DW DW		
	EXTENDED TIME, THE PUSHBUTTON MES	SAGE WILL BE "WAIT TO CROSS GEORGIA	837001	8036	8 EA	GROUND ROD, 3⁄4" DIAMETER X 10' LENGTH WITH CLAMP	FLASHING								
	AT BLUERIDGE, WAIT." B. WHEN THE "WALK" PHASE BEGINS, THE	MESSAGE WILL BE A RAPID TICK, WHICH	861105 861106	8057 8059	1385 LF 850 LF	2–CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG) IMSA 19–1 3–CONDUCTOR ELECTRICAL CABLE (NO. 18 AWG) VIDEO	OPERATION	FL/Y FL/Y	FL/Y FL/Y FL/R FL/R	FL/R FL/R FL	Ϋ́R FL/R D	ARK DARK DARK	DARK DARK	DARK DARK DAF	₹K <u>~</u> ↓ ↓
	WILL LAST FOR THE DURATION OF THE		861107	8060	1570 LF	DETECTION CABLE 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG) IMSA 19-1									
	FOR BLUERIDGE AVENUE A. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS		861108	8061	1475 LF	7-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG) IMSA 19-1				CO POLE NO. 40–000540					
			810014	8067	30 LF	1–CONDUCTOR ELECTRICAL CABLE (NO. 8 AWG) THWN COPPER			्म ⁷ 7844	40–000540					
	BLUERIDGE AT GEORGIA, WAIT."	MESSAGE WILL BE A RAPID TICK, WHICH	802501	8069	510 LF	1–CONDUCTOR ELECTRICAL CABLE (NO. 6 AWG) STRANDED BARE COPPER GROUND WIRE			PPS۱ JJ,KK						
	WILL LAST FOR THE DURATION OF THE	· · · · · · · · · · · · · · · · · · ·	802571	8074	190 LF	1–CONDUCTOR ELECTRICAL CABLE 2⁄0 THWN – ALUMINUM									
			801130 801605	8077 8081	4 EA 4 EA	GALVANIZED STEEL POST, 2"x12' PIPE FURNISH AND INSTALL SIGN >0 TO <=5 SF (OVERHEAD			A,B,C,D,E,F,G,M,	Н					
						OR POST)			D,G,FF	,Z,AA,BB,CC,	$\overline{\Lambda}$			CONDUCTOR (NO. 14 A	
	<u>CONTACTS</u> THE CONTACT PERSONS FOR DISTRICT 3	<u>CONTACTS (CONT.)</u> THE CONTACT PERSONS FOR THE OFFICE C	801605 OF	8082	11 EA	FURNISH AND INSTALL SIGN >5 TO <=25 SF (OVERHEAD OR POST)				<u>É,ÉF,HH,LL</u> JJ,Ł	(K –				
\downarrow	ARE AS FOLLOWS:	TRAFFIC AND SAFETY ARE AS FOLLOWS:	800000	8097	1 EA	FURNISH AND INSTALL MSHA STANDARD ASC 3 CONTROLLER				V,X,Y,Z,AA,BB,CC,),EE,FF,HH,JJ,LL		P,Q,R,S,T,U ELECT	RICAL CABLE – 5	CONDUCTOR (NO. 14 A	AWG)
	MR. DEREK GUNN	REBECCA LICHTENSTEIN, P.E.	818041	8099	2 EA	FURNISH AND INSTALL MSHA STANDARD MAST POLE WITH		D,HH	PY HILL FF WAR	–D,G,M,V,FF,HH –KK		V,W,X,Y,Z, AA,BB,CC ELECTF	RICAL CABLE – 2	CONDUCTOR (NO. 14 A	AWG)
	DISTRICT ENGINEER 301–513–7498	CHIEF TRAFFIC OPERATIONS DIVISION 410–787–7630	818050	8100	1 EA	SINGLE MAST ARM. MAST ARM VARIES (38'–70') FURNISH AND INSTALL MSHA STANDARD MAST POLE WITH	0,9,1,0		$\mathbf{F} = \mathbf{F} = \mathbf{F} \mathbf{F} \mathbf{F} \mathbf{F} \mathbf{F} \mathbf{F} \mathbf{F} \mathbf{F}$	KK	- [DD,EE,FF,LL VIDEO	DETECTION LEAD) IN CABLE	
						TWIN MAST ARM. MAST ARM VARIES (38'-70')				$\overline{\uparrow}$				1 CONDUCTOR (NO. 8	
	VACANT ASSISTANT DISTRICT ENGINEER-TRAFFIC	MR. ANTOINE YATES ASSISTANT DIVISION CHIEF	818004	8106	6 EA	FURNISH AND INSTALL MSHA STANDARD 10' PEDESTAL POLE WITH BREAKAWAY COUPLINGS	(C,DD	B,HH C,Q,T,Y,BB,DD,HH-		EXISTING ERGROUND <i>V</i> C	THHN/T			
	301–513–7462	TRAFFIC OPERATIONS DIVISION 410–787–7645	811000	8131	4 EA	FURNISH AND INSTALL SIGNAL HANDBOX (PULLBOX) LARGE SIZE (24"x30")			J JJ,KK 	1	ARCOLA AVE.		AWG STRANDED I	BARE COPPER GROUN	ND WIRE
	MR. MARK LOEFFLER		860292 860292	8140 8141	3 EA 3 EA	CUT MAST ARM TO NEEDED LENGTH CUT POLE TO NEEDED HEIGHT								JRCE (1-CONDUCTOR	
	DISTRICT UTILITY ENGINEER 301–513–7350	MR. MICHAEL BASSO CHIEF SIGNAL OPERATIONS SECTION	801711	8149	14 EA	REMOVAL AND SALVAGE OF SIGNS LESS THAN 50 SF				A,B,E,F,N,P,R,S,W,		CABLE	2/0 THWN-ALUMIN	NUM 3 RUNS WITH 30	FT. COILS
	MR. GREGORY EDWARDS	410–365–7258	873001	8158	4 EA	REMOVAL AND SALVAGE OF TRAFFIC SIGNAL MAST ARM AND POLE				X,Z,AA,EE,HH,JJ,LL				UTILITY POLE. FINAL S E MADE BY PEPCO F	
	ADE-MAINTENANCE (MONTGOMERY COUNTY)		873001	8159	5 EA	REMOVAL AND SALVAGE OF PEDESTAL POLE				-JJ					,
	301–513–7304	SIGNAL SHOP SUPPLY OFFICER 410–787–7673	873001 811002	8160 8162	1 EA 7 EA	REMOVAL AND SALVAGE OF BASE-MOUNTED CABINET REMOVAL OF SIGNAL HANDBOX		I				CABINE	ET IN NW CORNE	ITERCONNECT FROM I R TO EXISTING HANE	DHOLE IN SE
			873001	8163 8166	17 EA 8 EA	REMOVAL AND SALVAGE OF ANY SIGNAL HEAD FURNISH AND INSTALL AUDIBLE PEDESTRIAN PUSH BUTTON						CORNE CORNE		TO PROPOSED CABI	NET IN NW
	ADE-CONSTRUCTION (FIELD) 301-513-7336	THE CONTACT PERSONS FOR MONTGOMERY COUNTY ARE AS FOLLOWS:				ASSEMBLY & PUSH BUTTON SIGN				JJ					
	MR. SAMUEL AIMUFUA	MR. STEVE YOUNG & MR. GREG WHITENER	865300	8167	1 EA	FURNISH AND INSTALL 2–WIRE ACCESSIBLE PEDESTRIAN (APS) CENTRAL CONTROL UNIT						CABINE	ET IN NW CORNE	ITERCONNECT FROM I R TO PROPOSED HA	NDHOLE IN NW
	DISTRICT OPERATIONS ENGINEER	MONTGOMERY COUNTY SIGNAL OPERATIONS	860284	8168	5 EA	FURNISH 12" LED POLYCARBONATE SIGNAL HEAD (R,Y,G) WITH BLACK FACE TUNNEL VISORS (INCLUDES LENS, LED,								PTS EXISTING CONDUI IN NW CORNER	T AND REROUTE
	301–513–7307	MANAGER 301–279–1291				AND MOUNTING HARDWARE)		P,S,X,AA,HH	H,JJJ~\ A,LL~\ / /	r,z,hh B					
		MR. KAMAL HAMUD	860284	8170	4 EA	FURNISH 12" LED POLYCARBONATE SIGNAL HEAD (R,Y,G,GA) WITH BLACK FACE TUNNEL VISORS (INCLUDES LENS, LED,	AA,HH	AA		Z A		PROPO	ISED METERED SE	ERVICE PEDESTAL	
		MONTGOMERY COUNTY TMC CENTER	00000	01-24		AND MOUNTING HARDWARE)	-رل EXISTING	∑` <u>*`</u> =-=-=- S ↓ P,S,X,Hŀ	$_{H} = \underline{=} $				98ED 3/4 IN. x 10 F	T. GROUND ROD	
		240–777–8761	860284	8171	2 EA	FURNISH 12" LED POLYCARBONATE SIGNAL HEAD (R,Y,G,YA,GA) WITH BLACK FACE TUNNEL VISORS (INCLUDES	UNDERGROUND <i>V</i> C TO MD 193			F,N,W,EE,HH,LL				OFFICE OF TRAFFIC &	
		THE POWER COMPANY REPRESENTATIVE IS:	860285	8172	8 EA	LENS, LED, AND MOUNTING HARDWARE) FURNISH 16" 1–SECTION FULL HAND, FULL PERSON LED	(UNIVERSITY BLVD)	P		, ,,=				FRAFFIC ENGINEERING DE	SIGN DIVISION
		POTOMAC ELECTRIC POWER COMPANY MR. JACK CHU, CUSTOMER DESIGN				PEDESTRIAN SIGNAL WITH COUNTDOWN			Т ^ч к / ^т м					MD 97 (GEORGIA	,
		201 WEST GUDE DRIVE ROCKVILLE, MARYLAND, 20850	655120	8175	6 EA	FURNISH AND INSTALL MSHA STANDARD DETECTABLE WARNING SURFACE			F E,F,EE			MARYLAND DEPAR OF TRANSPORTA		AT BLUERIDGE A WHEATON, MARY	
1		301–548–4332	816001 816015	8176 8177	4 EA 1 EA	FURNISH AND INSTALL VIDEO DETECTION CAMERA FURNISH AND INSTALL VIDEO DETECTION CAMERA			AMD TRACKING NO IF CONSTRUCTION IS NOT STARTED		OF APPROVAL	STATE HIGHW ADMINISTRAT	ION		
						INTERFACE EQUIPMENT (1–8) CAMERA			CONSTRUCTION SHALL NOT START		,				
Γ			860289 549617	8181 8190	11 EA 605 LF	FURNISH AND INSTALL SIGNAL HEAD BACKPLATE INSTALL 24" WHITE HEAT APPLIED PERMANENT PREFORMED	440			REVISIO	NS	GENE	RAL INFOR	RMATION SH	IEET
						THERMOPLASTIC PAVEMENT MARKING	LULA E OF	MARY	"I HEREBY CERTIFY THAT THESE					<u>DBER 2023</u> CONTRACT NO.	
·			549601	8192	50 LF	INSTALL 5" WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING		LOLIN .	DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM						
EX EX							i * 13 (6	*	A DULY LICENSED PROFESSIONAL			DESIGNED BY <u>K.</u> DRAWN BY <u>K.</u>		COUNTY <u>MON</u>	
iner							11 B. No	3532	THE STATE OF MARYLAND."			CHECKED BYM.		TIMS NO	
mis							\$8810	MAL ENGIL	LICENSE NO. 35321			MDE/PRD		TOD NO	
ž							~~~*****	10/27/23	EXPIRATION DATE JANUARY 6, 2024			TS NO. 210D–GI DR	AWING SG-04 (OF 05 SHEET NO.	11 OF 12
								< IU/21/23		PLOTTED: Friday, October 27, 2	023 AT 03:53 PM			I	

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