

**PROJECT DESCRIPTION**

**I. GENERAL**

THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC SIGNAL AND THE UPGRADE TO APS/CPS INCLUDING ADA HANDICAP RAMPS AT THE INTERSECTION OF MD 193 AND 63RD AVE IN PRINCE GEORGE'S COUNTY. THIS INTERSECTION IS IN SYSTEM. THE EXISTING INTERCONNECT CABLE RUNS WILL BE UTILIZED. MD 193 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

**II. INTERSECTION OPERATION**

THE INTERSECTION OPERATES IN A NEMA SIX-PHASE, SEMI-TRAFFIC-ACTUATED MODE. THERE IS EXCLUSIVE/PERMISSIVE LEFT TURN PHASING FOR BOTH APPROACHES OF MD 193. MD 193 THROUGH MOVEMENTS WILL OPERATE CONCURRENTLY WITH CONCURRENT PEDESTRIAN PHASES FOR BOTH THE NORTH AND SOUTH LEG OF THE INTERSECTION. 63RD AVE THROUGH MOVEMENTS WILL OPERATE CONCURRENTLY. THERE IS AN ALTERNATE PEDESTRIAN PHASE FOR THE EAST LEG OF THE INTERSECTION.

**EQUIPMENT LIST FOR CONTRACT NO. XX3545168R**

**A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION**

ITEM	QUANTITY	UNIT	DESCRIPTION
9042	1	EA	[UPDATED] CONTROLLER ASC II WITH TELEMETRY
9044	1	EA	[UPDATED] CONTROLLER CABINET, SIZE 6
9087	1	EA	[UPDATED] VIDEO DETECTION INTERFACE EQUIPMENT; 5-8 CAMERAS
9570	44	SF	[UPDATED] SHEET ALUMINUM GROUND MOUNTED SIGN
	1	EA	R4-7 (24"X30") GROUND MOUNTED
	6	EA	R10-3(I) (9" X 15") GROUND MOUNTED
	3	EA	SI-1 (36"X36") GROUND MOUNTED
	3	EA	WI6-7P (24"X12") GROUND MOUNTED
9571	89	SF	[UPDATED] SHEET ALUMINUM MAST ARM / POLE MOUNTED SIGN
	8	EA	D-3 (VAR. X 16") MAST ARM MOUNTED
	1	EA	R10-IIb (30"X30") MAST ARM MOUNTED

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

ITEM	QUANTITY	UNIT	DESCRIPTION
1003	1	EA	MAINTENANCE OF TRAFFIC
2001	1	CY	CLASS 2 EXCAVATION
2002	1	CY	TEST PIT EXCAVATION
5003	1075	LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS
5004	1030	LF	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
5005	45	LF	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
6001	225	LF	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
6002	670	SF	5 INCH CONCRETE SIDEWALK
6003	60	SF	DETECTABLE WARNING SURFACE FOR CURB RAMPS
8001	50	EA	12 INCH LED SIGNAL HEAD SECTION
8002	1	EA	2-WIRE CENTRAL CONTROL UNIT
8004	6	EA	8 INCH LED SIGNAL HEAD SECTION
8005	1	EA	ADJUST HANDHOLE TO GRADE INCLUDING FRAME AND COVER
8008	6	EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
8009	6	EA	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8012	1	EA	EMBEDDED METERED SERVICE PEDESTAL
8016	6	EA	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD
8024	1	EA	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8026	1	EA	TWIN MAST ARM POLE & 50'/60' MAST ARMS ANY 'T' DIMENSION
8027	1	EA	TWIN MAST ARM POLE & 50'/70' MAST ARMS ANY 'T' DIMENSION
8028	5	EA	VIDEO DETECTION CAMERA AND CABLE ANY LENGTH
8032	720	LF	DISCONNECT, PULL-BACK & REROUTE CABLES
8034	330	LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED
8036	150	LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
8037	70	LF	WOOD SIGN SUPPORTS UP TO 4' X 6'
8038	133	SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8040	475	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8043	50	LF	ELECTRICAL CABLE 1-CONDUCTOR NO. 8 AWG-THHN/THWN
8044	4	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8051	960	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8053	1090	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8054	1660	LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
8061	1	EA	INSTALL CONTROLLER AND CABINET - BASE MOUNT
8062	145	LF	1-CONDUCTOR ELECTRICAL CABLE, NO. 2 AWG/THHN

**PROJECT CONTACTS**

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Utility Engineer  
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Mr. Richard L. Daff, Sr.  
Chief, Traffic Operations Division  
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Mr. Ed Rodenhizer  
Supervisor, Signal Operations  
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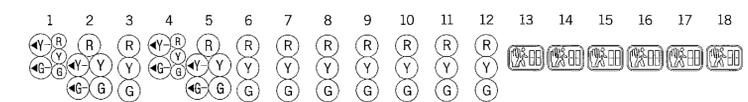
Mr. Sonny Bailey  
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Ms. Mike Stocker  
Supervisor, Signal Warehouse  
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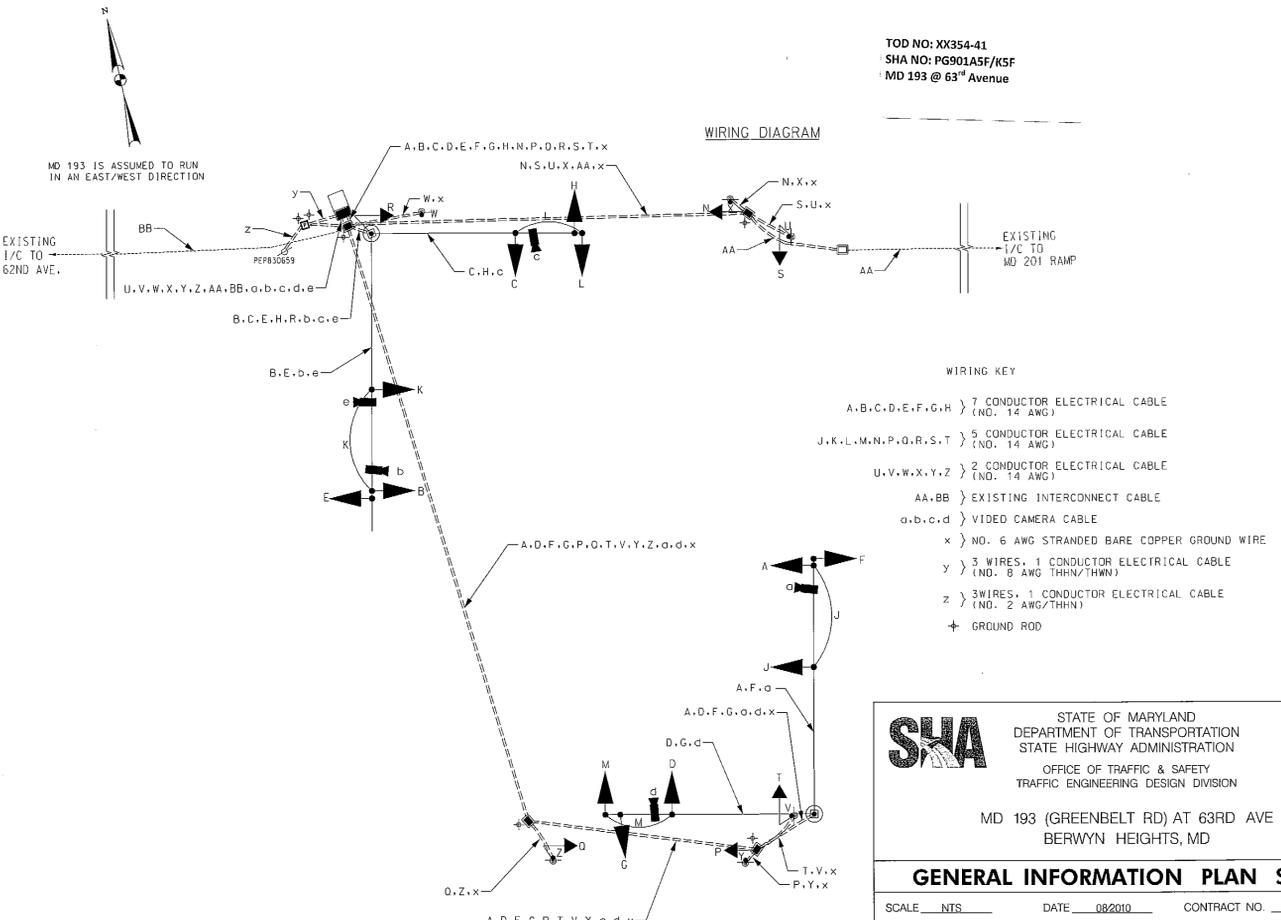
Power Company Representative - PEPCO (PG)  
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**PHASE CHART**

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
PHASE 1 AND 5	←GR	←GR	R	←GR	←GR	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6																		
PHASE 1 AND 6	←GG	←GG	G	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
1 AND 6 CHANGE	←YG	←YG	G	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 AND 5	R	R	R	←GG	←GG	G	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
2 AND 5 CHANGE	R	R	R	←YG	←YG	G	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	R	R	FLDW	FLDW	FLDW	FLDW	DW	DW
PED CLEARANCE	G	G	G	G	G	G	R	R	R	R	R	R	FLDW	FLDW	FLDW	FLDW	DW	DW
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 4 AND 8	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	DW	DW
4 AND 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW
PHASE 4 AND 8 ALT	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	WK	WK
PED CLEARANCE	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	FLDW	FLDW
4 AND 8 ALT CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK



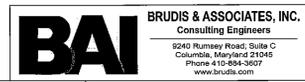
TOD NO: XX354-41  
SHA NO: PG901ASF/KSF  
MD 193 @ 63rd Avenue



**WIRING KEY**

- A, B, C, D, E, F, G, H } 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- J, K, L, M, N, P, Q, R, S, T } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- U, V, W, X, Y, Z } 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- AA, BB } EXISTING INTERCONNECT CABLE
- a, b, c, d } VIDEO CAMERA CABLE
- x } NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
- y } 3 WIRES, 1 CONDUCTOR ELECTRICAL CABLE (NO. 8 AWG THHN/THWN)
- z } 3 WIRES, 1 CONDUCTOR ELECTRICAL CABLE (NO. 2 AWG/THHN)
- + } GROUND ROD

**NOTE:**  
THE CONTRACTOR WILL "WORK WITH" PEPCO ON THE INSTALLATION OF THE 3 WIRES, 1 CONDUCTOR ELECTRICAL CABLE (NO. 2 AWG/THHN). IT HAS BEEN ASSUMED THAT DURING THE "WORK WITH" ADDITIONAL CABLE WILL BE COILED AND ATTACHED (TO THE WOOD POLE) TO PEPCO STANDARDS.



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

MD 193 (GREENBELT RD) AT 63RD AVE  
BERWYN HEIGHTS, MD

**GENERAL INFORMATION PLAN SHEET**

SCALE: NTS DATE: 08/2010 CONTRACT NO: XX3545168R

DESIGNED BY: XM COUNTY: PRINCE GEORGE'S  
DRAWN BY: XM LOGMILE: 16019305.58  
CHECKED BY: JB TMS NO: K019  
F.A.P. NO: TOD NO:

TS NO. 1279B DRAWING - 3 OF SHEET NO. 3 OF 3

BY: john