

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 193 AND 62ND AVE IN PRINCE GEORGE'S COUNTY. 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 THE EAST AND WEST APPROACHES OF MD 193. MD 193 THROUGH MOVEMENTS WILL OPERATE CONCURRENTLY AND 62ND AVE THROUGH MOVEMENTS WILL RUN SPLIT-PHASE. THERE ARE PEDESTRIAN INDICATIONS FOR BOTH THE NORTH AND SOUTH LEGS ON THE INTERSECTION AND THERE IS AN ALTERNATE PEDESTRIAN PHASE FOR THE WEST LEG OF THE INTERSECTION.

EQUIPMENT LIST FOR CONTRACT NO. PG8925177

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

CATEGORY	QUANTITY	UNIT	DESCRIPTION
9104	1	EA	SIZE 'S' CABINET WITH CONTROLLER AND VIDEO INTERFACE EQUIPMENT: 1-8 CAMERAS
9118	2	EA	4 CHANNEL DETECTOR AMPLIFIER

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

CATEGORY	QUANTITY	UNIT	DESCRIPTION
201032	4	CY	CLASS 2 EXCAVATION
203030	4	CY	TEST PIT EXCAVATION
504168	1.2	TON	HOT MIX ASPHALT SUPERPAVE 9.5MM, PG76-22, 8PV, LEVEL-2
504428	3.5	TON	HOT MIX ASPHALT SUPERPAVE 25.0MM FOR FULL DEPTH PATCH, PG64-22, LEVEL-2
520113	10	SY	6 INCH GRADED AGGREGATE BASE COURSE
585412	1060	LF	12 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
585424	100	LF	24 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
634300	375	LF	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
648150	9	LF	MONOLITHIC CONCRETE MEDIAN 4 FEET 0 INCH WIDE TYPE A-3
655105	1125	SF	5 INCH CONCRETE SIDEWALK
655120	65	SF	DETECTABLE WARNING SURFACE FOR CURB RAMPS
800000	6	EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION
800000	1	EA	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD
800000	1	EA	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
800000	300	LF	DISCONNECT, PULL-BACK & REROUTE CABLES
800000	1	EA	2-WIRE CENTRAL CONTROL UNIT
800000	12	EA	8 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
801004	14.5	CY	CONCRETE FOR SIGNAL FOUNDATION
801106	95	LF	WOOD SIGN SUPPORTS 4 INCH X 6 INCH
801605	215	SF	SHEET ALUMINUM SIGNS, CONSISTING OF: D-3(1) (VAR. x 16") DUAL-FACED MAST ARM MOUNTED R3-5(L) (30" x 36") MAST ARM MOUNTED R3-5(R) (30" x 36") MAST ARM MOUNTED R3-6(L) (30" x 36") MAST ARM MOUNTED R10-3(1) (9" x 16") POLE MOUNTED M1-5(6) (30" x 48") POLE MOUNTED M1-6(6) (48" x 72") POLE MOUNTED S1-1 (36" x 36") GROUND MOUNTED W16-7p(L) (24" x 12") GROUND MOUNTED
802501	405	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
802570	185	LF	1 CONDUCTOR #2/0 AWG CABLE
805125	80	LF	2 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
805135	515	LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
805140	25	LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
805150	115	LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-SLOTTED
805155	370	LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT-SLOTTED
807500	1	EA	EMBEDDED METERED SERVICE PEDESTAL
810022	30	LF	ELECTRICAL CABLE 1-CONDUCTOR NO. 8 AWG-THHN/THWN
810601	3	EA	NONINVASIVE DETECTOR, 500 FOOT LEAD IN CABLE
810605	3	EA	NONINVASIVE DETECTOR, 1000 FOOT LEAD IN CABLE
811001	10	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
816001	4	EA	VIDEO DETECTION CAMERA
818004	6	EA	10 FOOT BREAKAWAY PEDESTAL POLE
818030	1	EA	STEEL POLE WITH A SINGLE 38 FOOT MAST ARM
818041	1	EA	STEEL POLE WITH A SINGLE 60 FOOT MAST ARM
818051	1	EA	STEEL POLE WITH TWIN 50 FOOT AND 70 FOOT MAST ARMS
822002	1230	LF	12-PAIR COMMUNICATION CABLE, JELLYFILLED (UNDERGROUND)
837001	7	EA	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH
860284	36	EA	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
861105	825	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861107	975	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
861108	1825	LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
871202	1	EA	INSTALL CONTROLLER AND CABINET - BASE MOUNT

C. EQUIPMENT TO BE REMOVED.

SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. ALL OTHER EXISTING SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL.

CONTACTS

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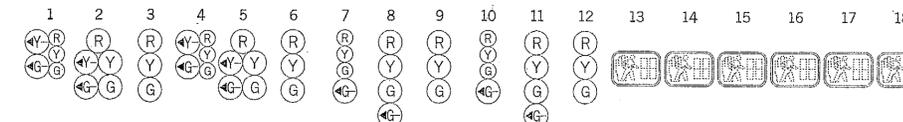
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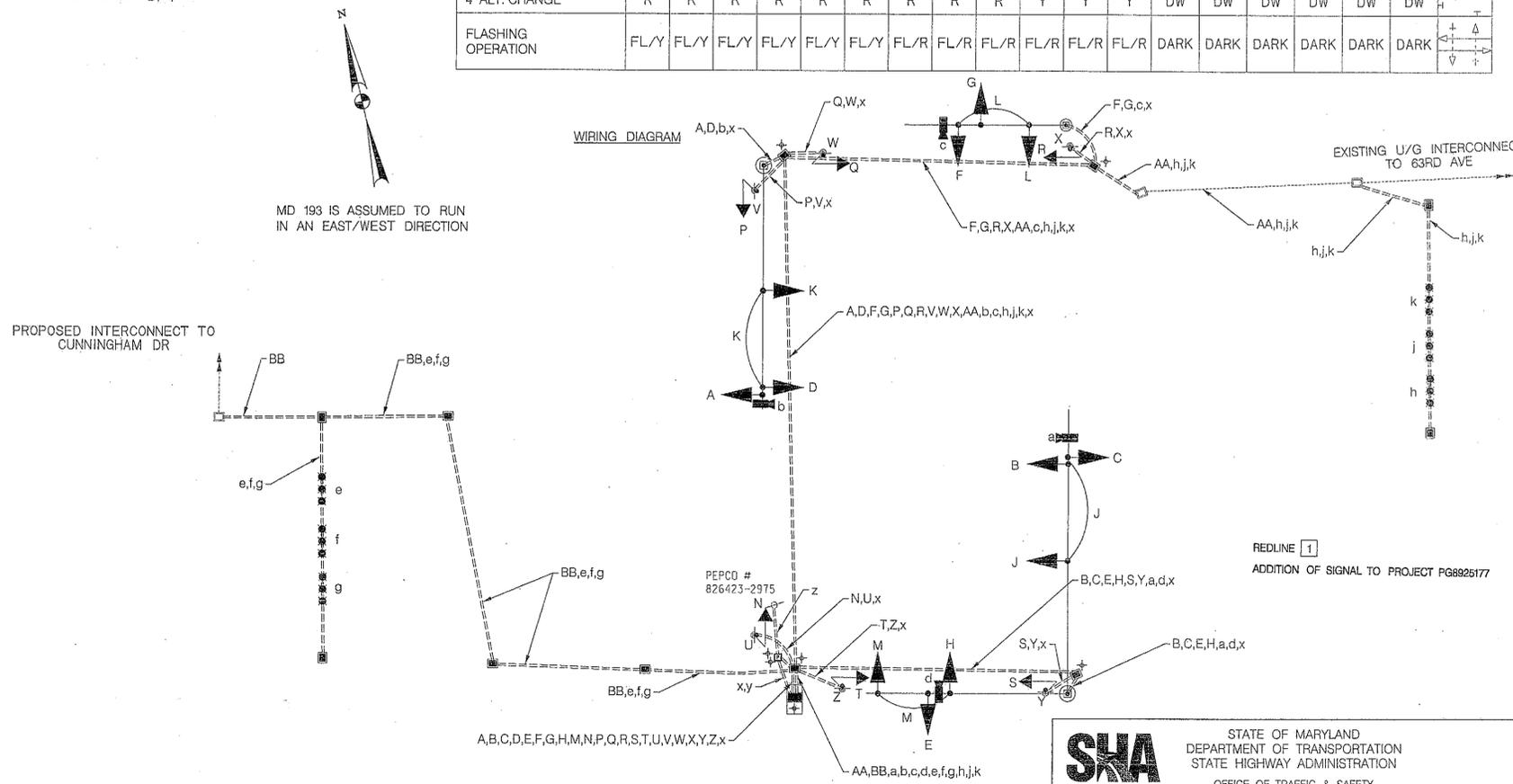
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PHASE CHART



PHASE 1 AND 5	<G/R	<G/R	R	<G/R	<G/R	R	R	R	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	<G/G	<G/G	G	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
1 CHANGE	<Y/G	<Y/G	G	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 AND 5	R	R	R	<G/G	<G/G	G	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
5 CHANGE	R	R	R	<Y/G	<Y/G	G	R	R	R	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	R	R	R	DW	DW	WK	WK	WK	WK
PED CLEARANCE	G	G	G	G	G	G	R	R	R	R	R	R	R	R	R	DW	DW	FL/DW	FL/DW	FL/DW	FL/DW
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 3	R	R	R	R	R	R	<G/G	<G/G	G	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
3 CHANGE	R	R	R	R	R	R	Y	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 4	R	R	R	R	R	R	R	R	R	<G/G	<G/G	G	DW	DW	DW	DW	DW	DW	DW	DW	DW
4 CHANGE	R	R	R	R	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 ALT.	R	R	R	R	R	R	R	R	R	<G/G	<G/G	G	WK	WK	DW	DW	DW	DW	DW	DW	DW
PED CLEARANCE	R	R	R	R	R	R	R	R	R	<G/G	<G/G	G	FL/DW	FL/DW	DW	DW	DW	DW	DW	DW	DW
4 ALT. CHANGE	R	R	R	R	R	R	R	R	R	Y	Y	Y	DW	DW	DW	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	DARK	DARK	DARK



WIRING KEY

- A,B,C,D } 7 CONDUCTOR ELECTRICAL CABLE
- E,F,G,H } (NO. 14 AWG)
- J,K,L,M,N } 5 CONDUCTOR ELECTRICAL CABLE
- P,Q,R,S,T } (NO. 14 AWG)
- U,V,W } 2 CONDUCTOR ELECTRICAL CABLE
- X,Y,Z } (NO. 14 AWG)
- AA } RE-ROUTED INTERCONNECT CABLE FROM 63RD AVE
- BB } PROPOSED INTERCONNECT CABLE TO CUNNINGHAM DR
- a,b,c,d } VIDEO CAMERA CABLE
- e,f,g } NON-INVASIVE CABLE
- h,i,j,k } STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)
- x } 3 WIRE, 1-CONDUCTOR ELECTRICAL CABLE (NO. 8 AWG-THHN/THWN)
- y } 3 WIRE, 1-CONDUCTOR ELECTRICAL CABLE (NO. 2 AWG-THHN/THWN)
- z } 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) AND
62ND AVE
BERWYN HEIGHTS, MD

GENERAL INFORMATION PLAN SHEET

SCALE	NONE	ADVERTISED DATE	09/2012	CONTRACT NO.	PG8925177
DESIGNED BY	CW	COUNTY	PRINCE GEORGE'S		
DRAWN BY	CW	LOGMILE	16019305.45		
CHECKED BY	RM	TIMS NO.	L274		
F.A.P. NO.		TOD NO.			

TS NO. 763C	DRAWING GN-1	OF 1	SHEET NO. 11	OF 26
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