

**PROJECT DESCRIPTION**

**GENERAL**

THIS PROJECT INVOLVES THE REPLACEMENT OF THE EXISTING HIB TO A SIGNAL POLE WITH A MAST ARM IN ADVANCE OF THE INTERSECTION OF MD 500 (QUEENS CHAPEL ROAD) AT BUCHANAN STREET IN PRINCE GEORGE'S COUNTY. IN ADDITION, THE EXISTING TRAFFIC SIGNALS WILL BE UPDATED TO LED. MD 500 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

**INTERSECTION OPERATION**

THE INTERSECTION WILL CONTINUE TO OPERATE AS A PEDESTRIAN CROSSING SIGNAL WITH THE MD 500 APPROACHES RUNNING CONCURRENTLY IN A FLASHING \*YELLOW\* MODE. A PUSHBUTTON ACTUATED EXCLUSIVE PEDESTRIAN PHASE ACROSS THE SOUTH LEG OF THE INTERSECTION WILL REMAIN.

**CONTROLLER REQUIREMENTS**

THE EXISTING BASE MOUNTED CONTROLLER SHALL REMAIN.

**PHONE DROP**

THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT 410-787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO NOTIFY MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE, AND PHONE NUMBER.

THE CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS:

Mr. Brian Young  
Assistant District Engineer - Traffic  
Phone: 301-513-7404

Mr. Augie Rebish  
Assistant District Engineer - Utility  
Phone: 301-513-7350

Mr. Wayne Mowdy  
Assistant District Engineer - Maintenance  
Phone: 301-513-7304

Mr. Richard L. Daff Sr.  
Chief, Traffic Operations Division  
Phone: 410-787-7630

Mr. Edward Rodenhizer  
SHA Signal Shop  
Phone: 410-787-7650

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

**EQUIPMENT LIST 'A'**

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO	QUANTITY	DESCRIPTION
9571	64 SF	[UPDATED] SHEET ALUMINUM MAST ARM / POLE MOUNTED SIGN: 1 EA - W3-3 (36 IN. x 36 IN.) 1 EA - W3-3(2) (120 IN. x 60 IN.) 3 EA - R10-3(1) (9 IN. x 15 IN.) *PUSH BUTTON TO CROSS QUEENS CHAPEL RD* 1 EA - M6-2 (MOD) FY (21 IN. x 15 IN.)

**EQUIPMENT LIST 'B'**

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO	QUANTITY	DESCRIPTION
1001	2 EA	MAINTENANCE OF TRAFFIC
2002	1 CY	TEST PIT EXCAVATION
5001	40 LF	5 INCH HEAT APPLIED WHITE OR YELLOW PERMANENT PREFORMED PAVEMENT MARKINGS
5002	145 LF	REMOVAL OF EXISTING PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
5004	140 LF	12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
5005	35 LF	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
6001	120 LF	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
6002	325 SF	4 INCH CONCRETE SIDEWALK
8001	2 EA	12 INCH LED SIGNAL HEAD SECTION (R,Y,G)
8005	1 EA	ADJUST EXISTING HANDHOLE TO GRADE
8008	3 EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON
8011	1 EA	CONDUIT BEND IN EXISTING FOUNDATION
8015	20 EA	LED SIGNAL HEAD MODULES (ANY SIZE)
8017	1 EA	MAST ARM POLE & 60 FT. MAST ARM ANY *T* DIMENSION
8022	1 EA	REMOVE & DISPOSE MATERIAL & EQUIPMENT PER ASSIGNMENT
8035	65 LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - TRENCHED
8038	40 SF	DETECTABLE WARNING SURFACES
8039	64 SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN
8041	25 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8052	1 EA	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
8054	225 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8056	1350 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

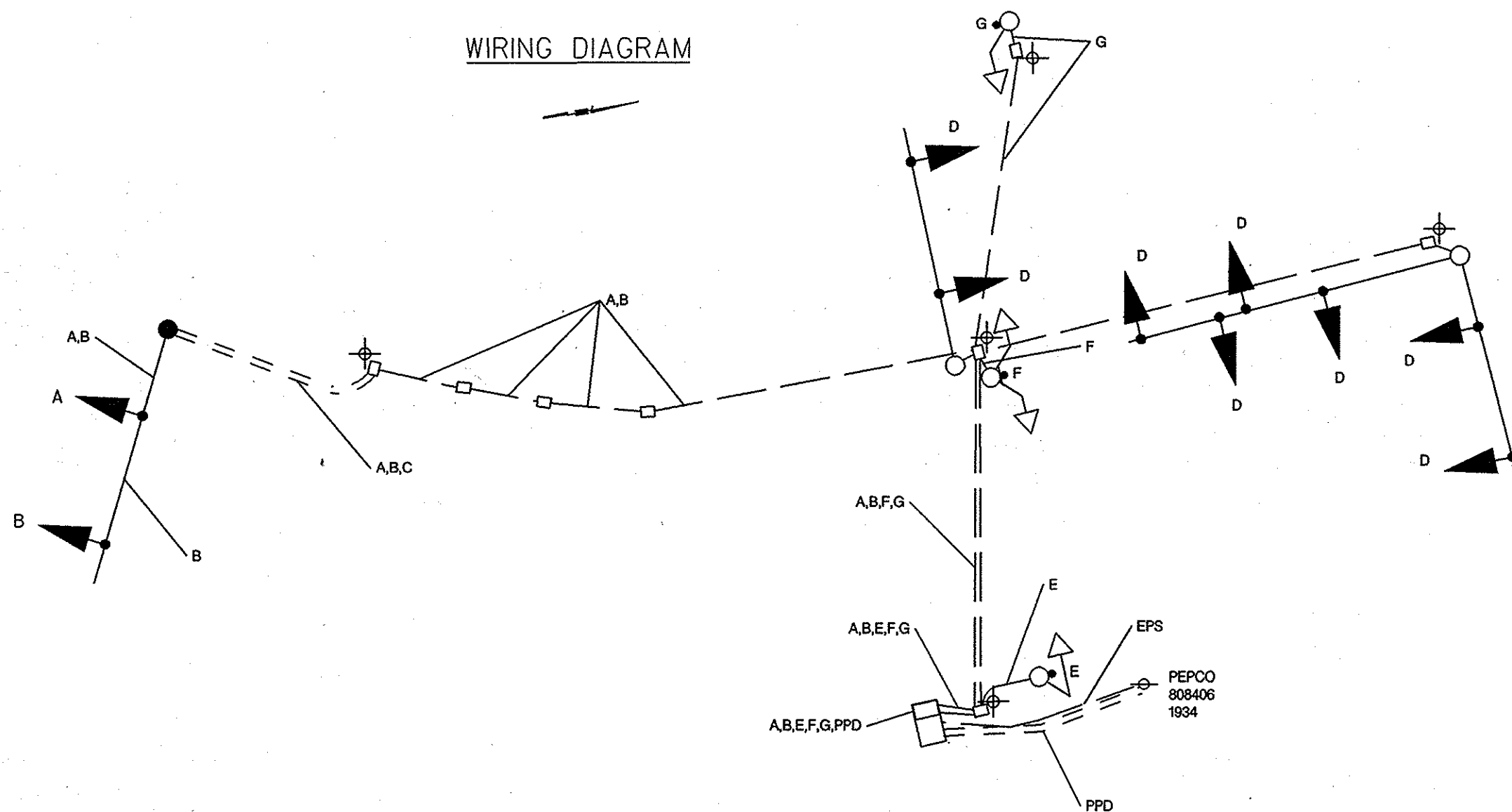
**EQUIPMENT LIST 'C'**

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

ITEM NO QUANTITY DESCRIPTION

NONE - ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR

**WIRING DIAGRAM**



- A] ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
- B] NO. 6 BARE STRANDED COPPER GROUND WIRE
- C] USE EXISTING CABLE
- D] ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
- E] PROPOSED UNDERGROUND TELEPHONE SERVICE TO BE INSTALLED BY OTHERS
- F] EXISTING POWER SERVICE
- G] EXISTING GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH

**PHASE CHART**

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
PHASE 2 & 6	(Y)	(Y)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)
2 & 6 CLEAR	FL / Y	FL / Y	QFL 8"	QFL 8"	QFL 8"	QFL 8"	R	R	R	R	DW	DW	DW	DW
2 & 6 CHANGE	FL / Y	FL / Y	12"Y	12"Y	12"Y	12"Y	R	R	R	R	DW	DW	DW	DW
PED PHASE	FL / Y	FL / Y	R	R	R	R	R	R	R	R	W	W	W	W
PED CLEARANCE	FL / Y	FL / Y	R	R	R	R	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW
PED CHANGE	FL / Y	FL / Y	R	R	R	R	R	R	R	R	DW	DW	DW	DW
FLASHING OPERATION	DARK	DARK	FL 8"	FL 8"	FL 8"	FL 8"	FL / R	FL / R	FL / R	FL / R	DARK	DARK	DARK	DARK

\* QFL = QUICK FLASH  
\* SIGNAL HEADS 7-10 FLASH INTERMITTENTLY DURING FLASHING OPERATION

TOD NO: AT910-19  
SHA NO: PG573A56/B56  
MD 500 @ BUCHANAN ST

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 500 (QUEENS CHAPEL ROAD) AND BUCHANAN STREET

**GENERAL INFORMATION**

SCALE	NONE	DATE	9/20/07	CONTRACT NO.	AT9105185
DESIGNED BY	MCG	COUNTY	PRINCE GEORGE'S		
DRAWN BY	CCW	LOGMILE	16050000.73		
CHECKED BY	BAB	T.I.M.S. NO.	1162		
F.A.P. NO.		TOD NO.			
DRAWING NO.	TS-3867B-GI	OF		SHEET NO.	2 OF 2

BY: weavercc

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