

**PROJECT DESCRIPTION**

**GENERAL**

THIS PORTION OF THE PROJECT INVOLVES THE INSTALLATION OF A HAZARD IDENTIFICATION BEACON (HIB) ON MD 30 (HANOVER PIKE) NEAR THE INTERSECTION OF MD 30 BUSINESS (NORTH) IN CARROLL COUNTY DUE TO THE INSTALLATION OF A ROUNDABOUT. MD 30 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

**INTERSECTION OPERATION**

THE HIB WILL OPERATE IN FLASHING MODE WITH FLASHING YELLOW BEACONS ON MD 30 (HANOVER PIKE).

**CONTROLLER REQUIREMENTS**

THE HIB WILL CONTAIN A CABINET AND CONTROLLER, SIGNAL HEADS, SIGN, AND POWER SERVICE.

**PHONE DROP**

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

**THE CONTACT PERSONS FOR DISTRICT #7 ARE AS FOLLOWS:**

Mr. John Concannon  
Assistant District Engineer - Traffic  
Phone: 301-624-8140/8141

Ms. Andrea Abend  
Assistant District Engineer - Utility  
Phone: 301-624-8105/8116

Mr. Raymond Johnson  
Assistant District Engineer - Maintenance  
Phone: 301-624-8105/8106

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

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

The Power Company Representative Is:  
Baltimore Gas & Electric Company  
7317 Parkway Drive South  
Hanover, MD 21076  
Phone: 410-859-9062

**EQUIPMENT LIST 'A'**

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO	QUANTITY	DESCRIPTION
900000	1 EA	CABINET FLASHER POLE MOUNT
973023	20 SF	SHEET ALUMINUM SIGNS
		1 EA - W2-6 (48 IN. x 48 IN.) FY
		1 EA - W13-1 (24 IN. x 24 IN.) FY

**EQUIPMENT LIST 'C'**

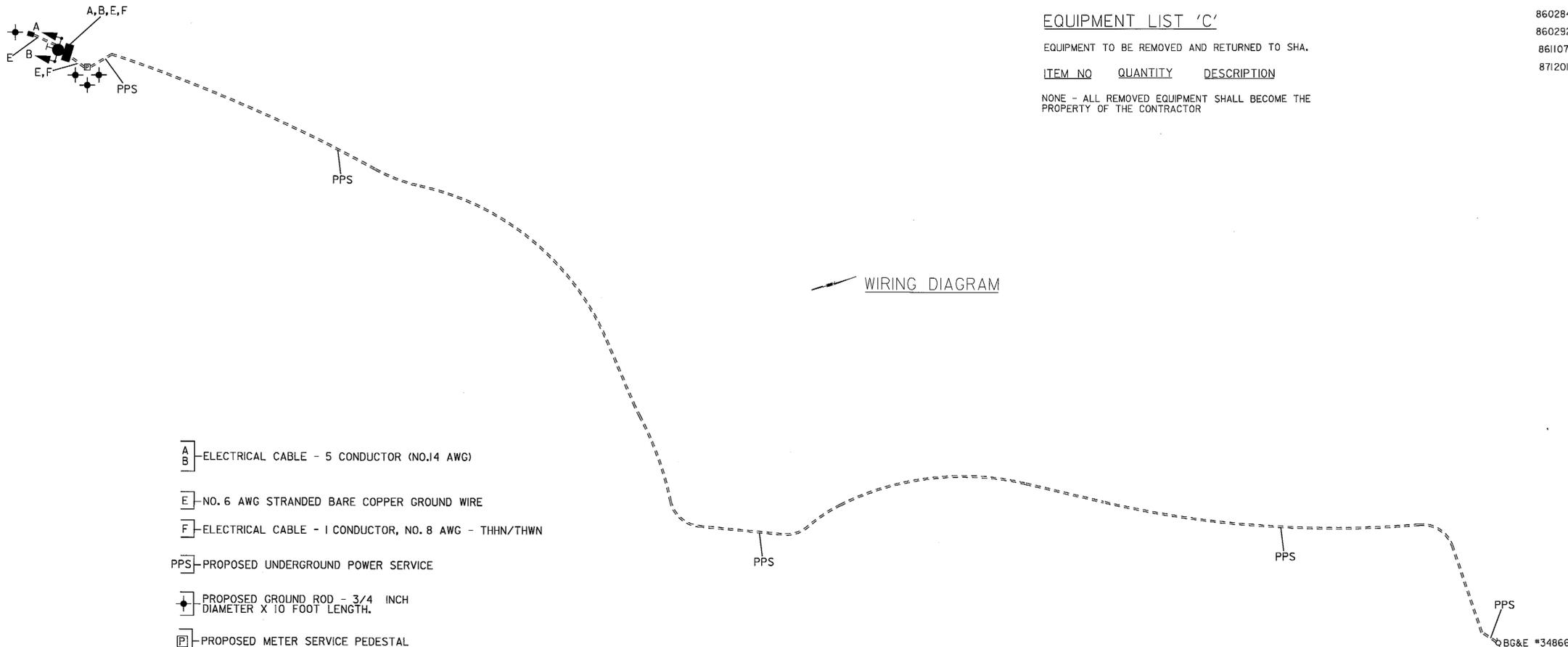
EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

ITEM NO	QUANTITY	DESCRIPTION
		NONE - ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR

**EQUIPMENT LIST 'B'**

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO	QUANTITY	DESCRIPTION
120500	1 LS	MAINTENANCE OF TRAFFIC
203030	1 CY	TEST PIT EXCAVATION
801004	2 CY	CONCRETE FOR SIGNAL FOUNDATION
802501	50 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805125	1850 LF	2 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
807202	1 EA	METERED SERVICE PEDESTAL
810022	25 LF	ELECTRICAL CABLE - 1 CONDUCTOR NO. 8 AWG - THHN/THWN
811001	1 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
813015	20 SF	INSTALL OVERHEAD SIGN
818006	1 EA	20 FOOT BREAKAWAY PEDESTAL POLE
837001	4 EA	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH
860284	2 EA	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
860292	1 EA	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
861107	25 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
871201	1 EA	INSTALL CONTROLLER AND CABINET - POLE MOUNT



**HIB PHASE CHART**

	1	2
	Y	Y
NORMAL OPERATION	FLY	FLY

- A/B** - ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
- E** - NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
- F** - ELECTRICAL CABLE - 1 CONDUCTOR, NO. 8 AWG - THHN/THWN
- PPS** - PROPOSED UNDERGROUND POWER SERVICE
- PROPOSED GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH.
- P** - PROPOSED METER SERVICE PEDESTAL

**WIRING DIAGRAM**

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

MD 30 RELOCATED  
FROM SOUTH OF WOLF HILL DRIVE TO NORTH OF HAMPSTEAD  
NORTH TIE-IN HIB INSTALLATION

**TRAFFIC SIGNALIZATION PLAN**

SCALE 1" = 40' DATE 08/20/07 CONTRACT NO. CL4165370

DESIGNED BY DSU COUNTY CARROLL  
DRAWN BY JEH LOGMILE 06003004.31  
CHECKED BY DSU T.I.M.S. NO. F407  
F.A.P. NO. ACHP-2821(001)NAC-NH-107-(19)N TOD NO.

TS NO. 4612 DRAWING SG-06 OF 19 SHEET NO. 18 OF 82

BY: jholloway

**WR** WHITNEY CONSULTING ENGINEERS  
BAILEY 849 FAIRMOUNT AVENUE  
COX SUITE 100 BALTIMORE, MD 21286  
MAGNANI (410) 512-4500