

DRILL HOLES
 BORBER REV. DATE: June 11, 2004
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PROJECT DESCRIPTION

I. GENERAL

This project involves the installation of a battery backup system and meter pedestal for the existing Traffic Control signal at the intersection of US 1 and MD 32 South Off Ramp in Howard County. The existing signal heads shall be replaced with LED signal heads. The existing signal US 1 is assumed to run in a north-south direction.

II. INTERSECTION OPERATION

- The existing full-traffic-actuated, eight-phase controller with all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be utilized at this intersection.
- A new NEMA size "5" base-mounted cabinet with battery back-up shall be installed at this intersection.

III. SPECIAL NOTES

- All controller cabinet wiring will be performed by the S.H.A. Signal Shop Contact Mr. Ed Rodenhizer at (410) 787-7652 seventy-two hours in advance of intended work.

The contact persons for District #7 are as follows:

Mr. John Concannon
 Assistant District Engineer - Traffic
 Phone: (310) 624-8141

Mr. Ray Johnson
 Assistant District Engineer - Maintenance
 Phone: (310) 624-8106

Ms. Andrea Abend
 District Engineer - Utility
 Phone: (301) 624-8115

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

Mr. Ed Rodenhizer
 Signal Shop
 410-787-7652

The power company representative is:

Baltimore Gas and Electric
 7317 Parkway Drive South
 Hanover, MD 21076
 410-850-4620

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY S.H.A..

THERE IS NO EQUIPMENT TO BE SUPPLIED BY THE SHA.

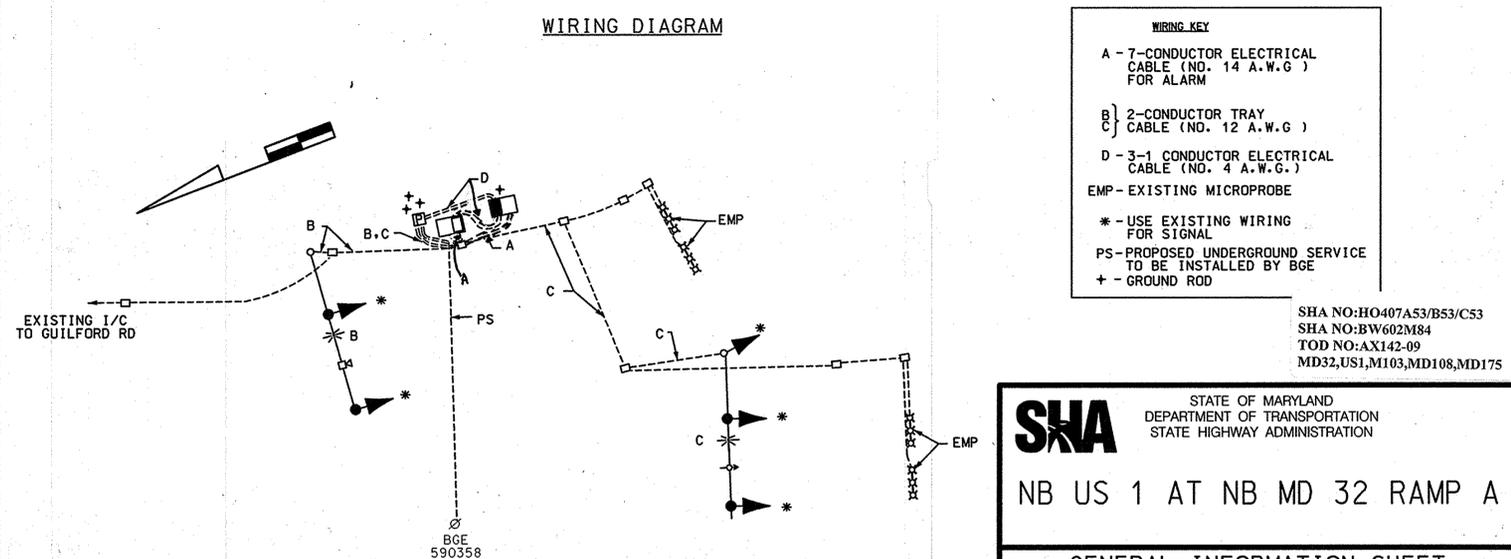
B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY
1001	Maintenance of traffic per assignment.	1 EA
2002	Test Pit Excavation	2 C.Y.
8001	12" LED signal head section.	6 EA
8015	LED signal head modules	9 EA
8036	Schedule 80 rigid PVC conduit up to 4" - trenched.	75 L.F.
8044	Metered service pedestal embedded.	1 EA
8046	Electrical cable 1-conductor No. 4 AWG THHN/THWN.	120 L.F.
8058	Electrical cable - 7 conductor (No. 14 AWG).	35 L.F.
8059	Electrical cable - 2 conductor (No. 12 AWG) TC.	280 L.F.
8074A	Clary Universal Power Supply with NEMA size 5 cabinet.	1 EA

PHASE CHART

THERE IS NO PHASE CHANGE FOR THIS PROJECT

WIRING DIAGRAM



WIRING KEY

- A - 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) FOR ALARM
- B } 2-CONDUCTOR TRAY CABLE (NO. 12 A.W.G.)
- C }
- D - 3-1 CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.)
- EMP - EXISTING MICROPROBE
- * - USE EXISTING WIRING FOR SIGNAL
- PS - PROPOSED UNDERGROUND SERVICE TO BE INSTALLED BY BGE
- + - GROUND ROD

SHA NO:HO407A53/B53/CS3
 SHA NO:BW602M84
 TOD NO:AX142-09
 MD32,US1,M103,MD108,MD175

SHA STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION

NB US 1 AT NB MD 32 RAMP A

GENERAL INFORMATION SHEET

SCALE NONE DATE 8/10/07 CONTRACT NO. AX1425185

DESIGNED BY JWA COUNTY HOWARD
 DRAWN BY RC LOGMILE 13000103.15
 CHECKED BY _____ TMS NO. I544
 F.A.P. NO. _____ TOD NO. _____

TS NO.4181BG1 DRAWING NO. 2 OF 2 SHEET NO. OF

REVISION "B"

STREET TRAFFIC STUDIES, LTD.
 400 Credit Hwy., NW
 Glen Burnie, MD 21061
 Ph (410) 590-5500
 Fax (410) 590-6637

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