

BORDER REV: DATE: June 1, 2004

DRILL HOLES

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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 MD 108 (Old Annapolis Rd) and Ramp A/A1 in Howard County. The existing signal heads shall be replaced with LED signal heads and Countdown pedestrian signals. MD 108 (Old Annapolis Rd) is assumed to run in an east - west direction.

II. INTERSECTION OPERATION

- 1. The intersection shall continue to operate in a NEMA four-phase, fully-actuated mode, with the MD 108 (Old Annapolis Rd) approaches running concurrently. The Exclusive / Permissive left turn phase for the eastbound approach of MD 108 (Old Annapolis Rd) shall remain in operation. The pedestrian phase with pushbutton actuation across the west leg of MD 108 (Old Annapolis Rd) shall now be a Countdown pedestrian phase. The pedestrian phase across the Ramp A/A1 approach shall now be a Countdown pedestrian phase on recall. The Ramp A/A1 approach shall continue to operate in its own phase.
2. 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.
3. A new NEMA size "5" base-mounted cabinet with battery back-up shall be installed at this intersection.

III. SPECIAL NOTES

- 1. 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

Mr Sony Bailey
Sign Shop
410-787-7670

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..

Table with columns: TEM NO., DESCRIPTION, QUANTITY. Includes items like Sheet aluminum signs, Pedestrian education R10-3(1) sign, and Pedestrian education R10-3(1) sign.

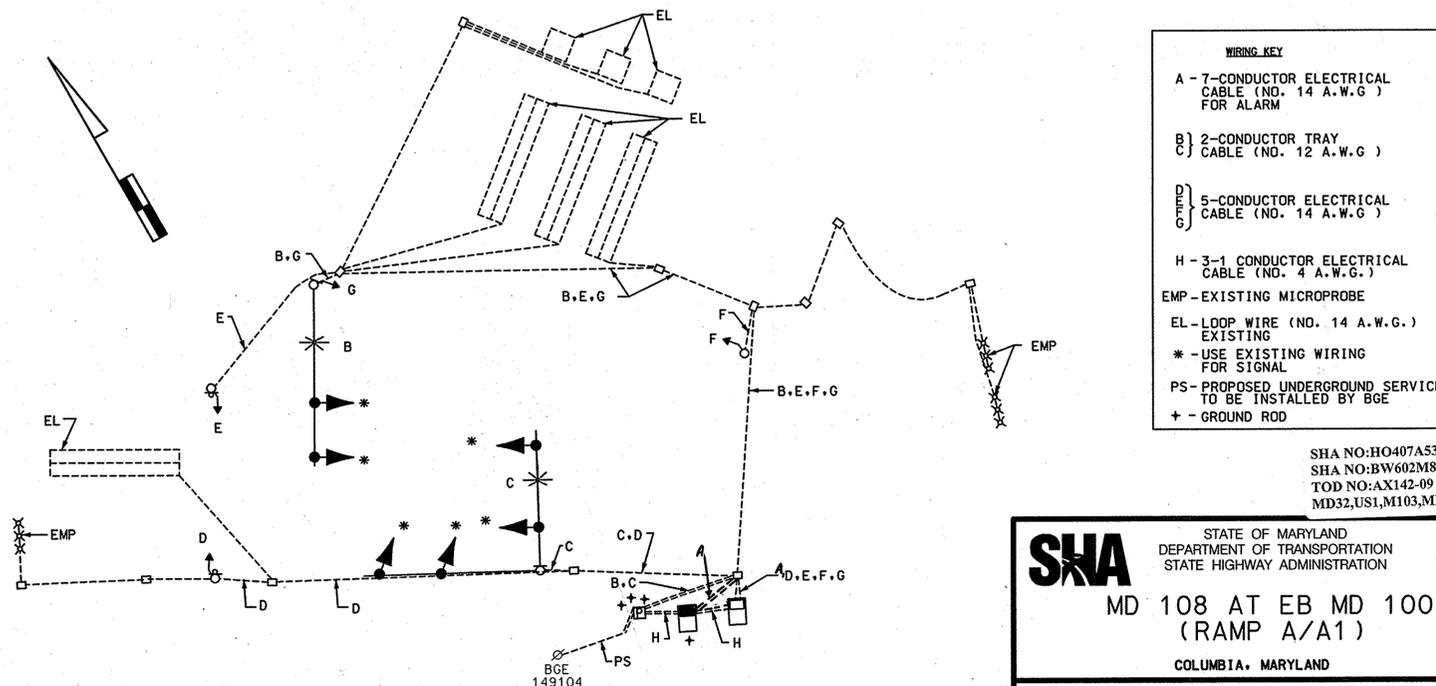
B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

Table with columns: ITEM NO., DESCRIPTION, QUANTITY. Includes items like Maintenance of traffic, Test Pit Excavation, LED signal head section, LED 16" countdown pedestrian signal head, etc.

PHASE CHART

Phase chart table showing traffic phases (PHASE 1 & 6, PHASE 2 & 6, PHASE 4, PHASE 4 ALT) and their corresponding signal states (G, R, Y, DW, FL/DW, etc.) for 10 lanes.

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 } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
E }
F }
H - 3-1 CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.)
EMP - EXISTING MICROPROBE
EL - LOOP WIRE (NO. 14 A.W.G.) EXISTING
* - USE EXISTING WIRING FOR SIGNAL
PS - PROPOSED UNDERGROUND SERVICE TO BE INSTALLED BY BGE
+ - GROUND ROD

SHA NO:HO407A53/B53/C53
SHA NO:BW602M84
TOD NO:AX142-09
MD32,US1,M103,MD108,MD175

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
MD 108 AT EB MD 100 (RAMP A/A1)
COLUMBIA, MARYLAND

GENERAL INFORMATION SHEET
SCALE NONE DATE 8/10/07 CONTRACT NO. AX1425185
DESIGNED BY JWA COUNTY HOWARD
DRAWN BY RC LOGMILE 13010812.24
CHECKED BY TMS NO. 1544
F.A.P. NO. TOD NO.

STREET TRAFFIC STUDIES, LTD.
400 Crain Hwy., NW
Glen Burnie, MD 21061
PH (410) 590-6500
FAX (410) 590-6657
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