

BORDER REV. DATE: June 1, 2004

DRILL HOLES

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PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing mast arm Traffic Control Signal with street lighting and interconnect at the intersection of MD 355 (Frederick Rd) and MD 118 (Germantown Rd) in Montgomery County. An additional northbound MD 118 (Germantown Rd) thru lane is being added to the intersection utilizing the existing pavement. MD 355 (Frederick Rd) is assumed to run a north-south direction.

II. INTERSECTION OPERATION

- 1. The intersection shall continue to operate in a NEMA eight-phase, semi-actuated mode, with the MD 355 (Frederick Rd) approaches running concurrently. Exclusive left turn phases for both approaches of MD 355 (Frederick Rd) shall remain in operation. The pedestrian phases with pushbutton actuation shall continue to be provided across both legs MD 355 (Frederick Rd). The pedestrian phases across MD 118 (Germantown Rd) shall remain on recall. Farside sampling stations shall continue to be provided on both legs of MD 355 (Frederick Rd) at this intersection. Exclusive left turn phases shall remain in operation for both approaches MD 118 (Germantown Rd). The MD 118 (Germantown Rd) approaches shall also continue to run concurrently.
2. The existing full-traffic-actuated, eight-phase controller with video interface, L.A.U. and L.A.U. Panel and all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be utilized at this intersection.

III. SPECIAL NOTES

- 1. All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.

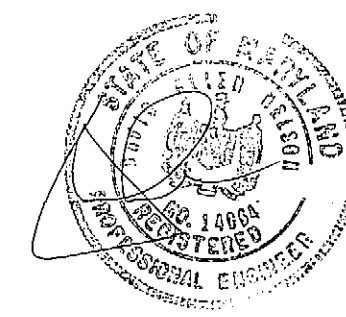
The contacts for Montgomery County and SHA are as follows:

Mr. Cedric Ward, Assistant District Engineer - Traffic, Phone: (301) 513-7498; Mr. Richard L. Daff, Sr., Chief, Traffic Operations Division, Phone: (410) 787-7630; Mr. Kamal Hamud, Mont. County TMC Center, 240-777-8761; Mr. Vernon Stinnett, Assistant District Engineer - Maintenance, Phone: (301) 513-7304; Mr. Bob Ricketts, Signal Shop (Mont Co.), 240-876-3681; Mr. Victor Grafton, Assistant District Engineer - Utility, Phone: (301) 513-7350; Mr. Sonny Bailey, Manager, Sign Shop Operations, 410-787-7670.

EQUIPMENT LIST

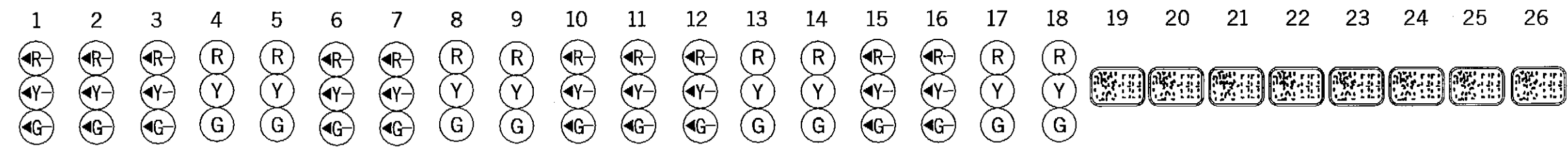
A. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

Table with columns: SPEC. NUMBER, DESCRIPTION, QUANTITY. Includes items like 556 5" white permanent thermoplastic pavement marking, 812 Furnish and install wood sign supports, 813 Ground mounted sheet aluminum signs.



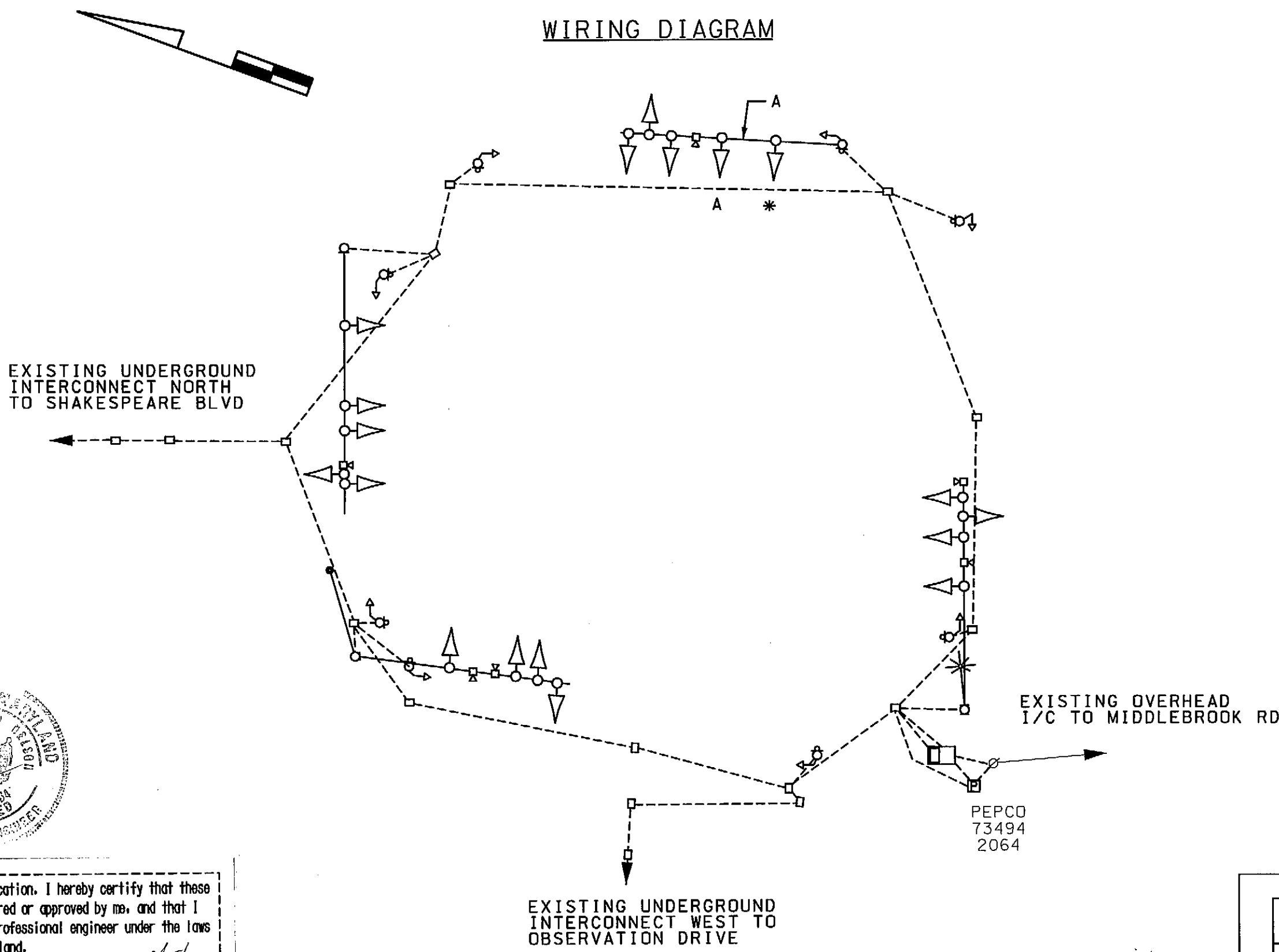
Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 17800, Expiration Date: 8/12.

PHASE CHART



Phase chart table with columns for phases 1-26 and rows for various phase changes and operations like PHASE 1 AND 5, PHASE 1 AND 6, PHASE 2 AND 5, etc.

WIRING DIAGRAM



WIRING KEY
A - 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
* - USE EXISTING CABLE
ES - EXISTING OVERHEAD SERVICE TO BE INSTALLED BY PEPCO

SHA STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION
MD 355 (FREDERICK RD) AND MD 118 (GERMANTOWN RD) GERMANTOWN, MD

GENERAL INFORMATION SHEET table with fields for SCALE, DATE, CONTRACT NO., DESIGNED BY, DRAWN BY, CHECKED BY, F.A.P. NO., TS NO., DRAWING NO., SHEET NO.

STREET TRAFFIC STUDIES, LTD. logo and contact information: 400 Crain Hwy., NW, Glen Burnie, MD 21061, Ph (410) 590-5200, Fax (410) 590-6637.

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