

BORDER REV. DATE: June 1, 2004

DRILL HOLES

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PROJECT DESCRIPTION

I. GENERAL

This project involves the reconstruction of an existing strain pole Traffic Control Signal at the intersection of MD 157 (Merritt Blvd) and German Hill Shopping Center / Save-A-lot Driveway in Baltimore County. A new mast arm pole traffic signal with video detection and street lighting shall be installed at this location. New interconnect cable will be run north to German Hill Rd. MD 157 (Merritt Blvd) is assumed to run a north-south direction.

II. INTERSECTION OPERATION

- 1. The intersection shall continue to operate in a NEMA six-phase, fully-actuated mode, with the MD 157 (Merritt Blvd) approaches running concurrently. Exclusive left turn phases are provided for both approaches of MD 157 (Merritt Blvd). The German Hill Shopping Center / Save-A-lot Driveway approaches shall continue to run concurrently.
2. A full-traffic-actuated, eight-phase controller with video interface and all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be installed at this intersection.

III. SPECIAL NOTES

- 1. The Contractor shall be responsible for terminating all signal cables, to the appropriate terminals and shall properly label each cable.
2. 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.
3. 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 contact persons for District #4 and SHA are as follows:

- Ms. Erin Kuhn, Assistant District Engineer - Traffic, Phone: (410) 229-2381
Mr. Andre Futrell, Assistant District Engineer - Maintenance, Phone: (410) 229-2361
Mr. Mike Pasquariello, District Engineer - Utility, Phone: (410) 229-2341
Mr. Richard L. Daff, Sr., Chief, Traffic Operations Division, Phone: (410) 787-7630
Mr. Ed Rodenhizer, Manager, Signal Operations Section, 410-787-7652
Mr. Sonny Bailey, Manager, Sign Shop Operations, Phone: 410-787-7676
Mr. Robert Snyder, Asst Chief, Traffic Operations Division, Phone: 410-787-7631

The power company representative is: Baltimore Gas and Electric, 7317 Parkway Drive South, Hanover, MD 21076, 410-850-4620

EQUIPMENT LIST

Table with columns: ITEM NO., DESCRIPTION, QUANTITY. Lists equipment to be supplied by S.H.A., including controller, video detection interface, and signs.

EQUIPMENT LIST (CONT.)

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

Table with columns: ITEM NO., DESCRIPTION, QUANTITY. Lists equipment to be furnished and installed by the contractor, including excavations, signal heads, lighting, cables, and conduits.

C. EQUIPMENT TO BE REMOVED

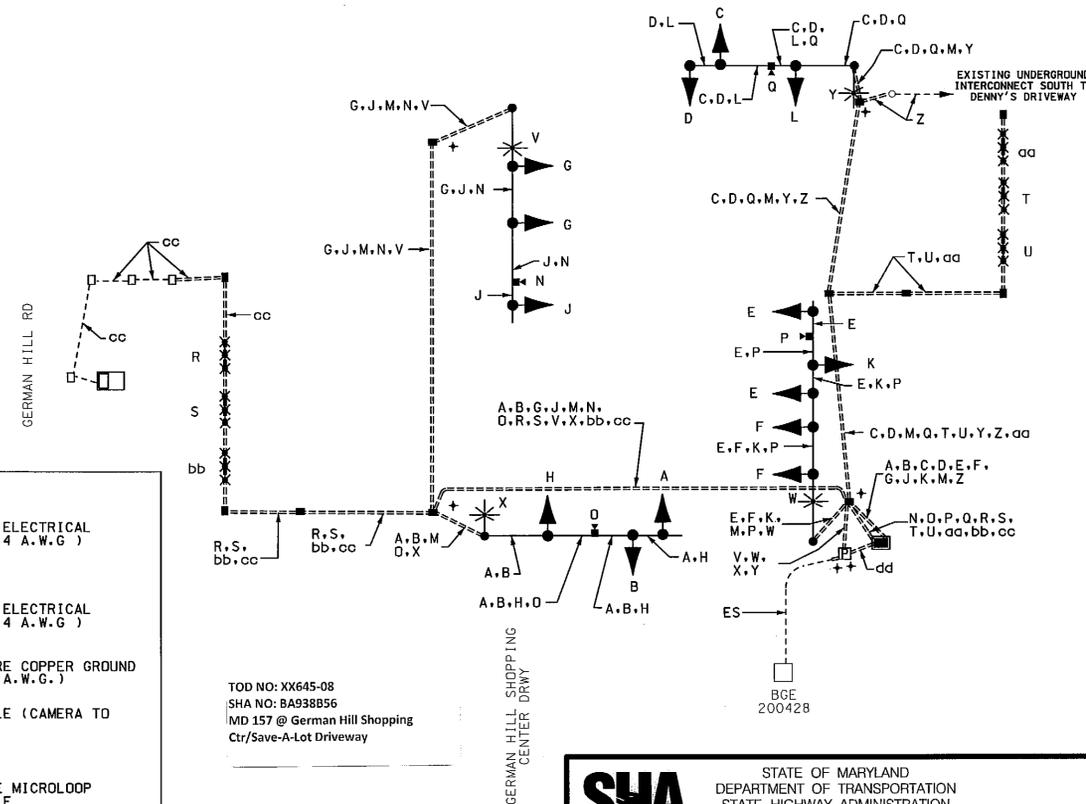
SHA Forces shall remove the controller and all auxiliary equipment from the controller cabinet and shall return the equipment to the signal shop. The cabinet and all other removed signal materials are to become property of the contractor.



PHASE CHART

Phase chart showing traffic signal phases (1-14) and their corresponding movements (left, through, right) for different phase combinations.

WIRING DIAGRAM



WIRING KEY defining symbols for cable types (7-conductor, 5-conductor, M-stranded copper, control cable, non-invasive microloop, 2-conductor tray, interconnect cable, jelly-filled cable, 1-conductor electrical, rerouted service) and ground rods.



SHA STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION. Project: MD 157 (MERRITT BLVD) AND GERMAN HILL SHOPPING CENTER/ SAVE-A-LOT DRIVEWAY. Includes drawing title, scale, date, contract number, and designer/drawer information.

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