

DRILL HOLES

BORDER REV. DATE: June 1, 2004

I. GENERAL PROJECT DESCRIPTION

This project involves the modification of an existing mast arm Traffic Control Signal at the intersection of MD 924 (Emmorton Rd) and Box Hill South Pkwy / Porter Drive in Harford County. MD 924 is being widened resulting in the need to relocate signal equipment. MD 924 (Emmorton Rd) is assumed to run a north-south direction.

II. INTERSECTION OPERATION

- The intersection shall continue to operate in a NEMA four-phase, fully-actuated mode, with the MD 924 (Emmorton Rd) approaches running concurrently. The Box Hill South Pkwy / Porter Drive approaches shall also continue to run concurrently.
- A full-traffic-actuated, eight-phase controller with video interface housed in a NEMA size "6" base-mounted cabinet shall be installed at this intersection.

III. SPECIAL NOTES

- The Contractor shall be responsible for terminating all signal cables, excluding interconnect, to the appropriate terminals and shall properly label each cable.
- 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.
- 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.

EQUIPMENT LIST (CONT.)

B. EQUIPMENT TO BE SUPPLIED AND OR INSTALLED BY THE CONTRACTOR

| ITEM NO. | DESCRIPTION | QUANTITY |
|----------|---|----------|
| 120500 | MAINTENANCE OF TRAFFIC | 1 LS |
| 585625 | 24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES | 115 LF |
| 802501 | NO. 6 AWG STRANDED BARE COPPER GROUND WIRE | 320 LF |
| 805115 | 3 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED | 155 LF |
| 805118 | 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED | 155 LF |
| 805135 | 3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED | 660 LF |
| 810601 | NONINVASIVE DETECTOR, 500 FOOT LEAD IN CABLE | 3 EA |
| 811001 | FURNISH AND INSTALL ELECTRICAL HANDHOLE | 7 EA |
| 813015 | INSTALL OVERHEAD SIGN | 15 SF |
| 816001 | VIDEO DETECTION CAMERA | 2 EA |
| 816005 | CONTROL CABLE, 250 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER | 1 EA |
| 816010 | CONTROL CABLE, 500 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER | 1 EA |
| 860284 | 12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION | 24 EA |
| 861108 | ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG) | 815 LF |
| 873001 | REMOVE AND SALVAGE EXISTING EQUIPMENT | 1 LS |

C. EQUIPMENT TO BE REMOVED

ALL EQUIPMENT TO BE REMOVED SHALL BECOME PROPERTY OF THE CONTRACTOR

The contact persons for District #4 are as follows:

- Ms. Erin Kuhn
Assistant District Engineer - Traffic
Phone: (410) 321-2781
- Mr. Steve Marciszewski
Assistant District Engineer - Maintenance
Phone: (410) 321-2761
- Mr. Mike Pasquafello
Assistant District Engineer - Utility
Phone: (410) 321-2841
- Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
Phone: (410) 787-7630
- Mr. Ed Rodenhizer
Signal Shop
410-787-7652
- Mr. Sonny Bailey
Sign Shop
410-787-7676

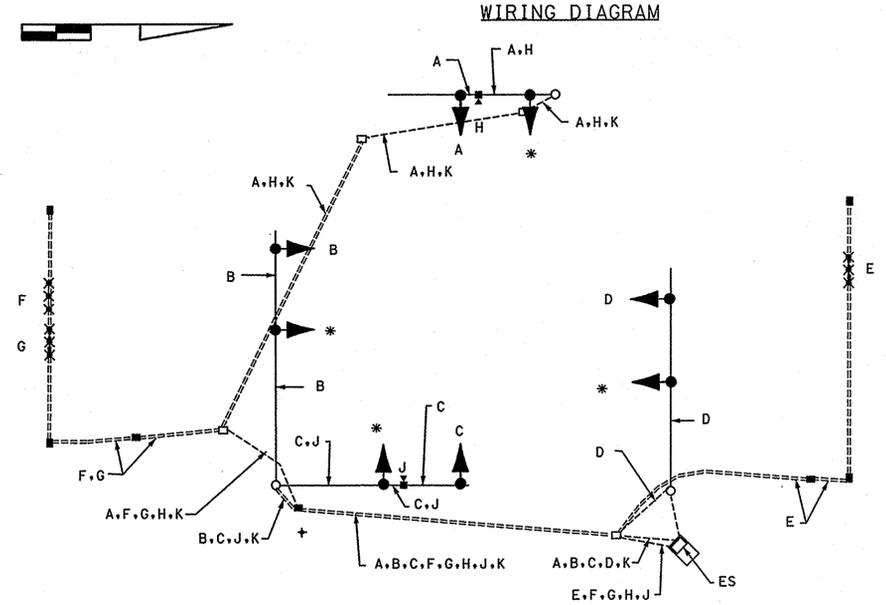
EQUIPMENT LIST

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

| ITEM NO. | DESCRIPTION | QUANTITY |
|----------|--------------------------------|----------|
| 900000A | VIDEO INTERFACE (1 TO CAMERAS) | 1 EA |
| 973023 | SHEET ALUMINIUM SIGNS | 1 EA |

PHASE CHART

THERE IS NO CHANGE TO THE PHASE CHART FOR THIS PROJECT.



WIRING KEY

| | |
|------------|---|
| A, B, C, D | 7 CONDUCTOR ELECTRICAL CABLE (NO 14 AWG) |
| E, F, G | NON INVASIVE MICRO LOOP LEAD IN CABLE (500') |
| H | CONTROL CABLE (CAMERA TO CONTROLLER) 500' |
| J | CONTROL CABLE (CAMERA TO CONTROLLER) 250' |
| K | STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.) |
| ES | EXISTING SERVICE TO BE MAINTAINED BY BGE |
| + | GROUND ROD |

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 924 (EMMORTON RD) AND BOX HILL SOUTH PKWY / PORTER DR

GENERAL INFORMATION SHEET

| | | |
|-------------------------|---------------------|--------------|
| SCALE NONE | DATE 2/3/08 | CONTRACT NO. |
| DESIGNED BY JAMES ALLEN | COUNTY HARFORD | |
| DRAWN BY ROB CICHINI | LOGMILE 12092400.45 | |
| CHECKED BY | TIMS NO. | |
| F.A.P. NO. | TOD NO. | |
| TS NO. 3789A | DRAWING NO. 2 OF 2 | SHEET NO. OF |

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

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