

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing Traffic Control Signal at the intersection of MD 924 (Main Street) and E Mac Phail Road in Harford County. A new Exclusive/Permissive phase shall be added to the northbound MD 924 (Main Street) approach. Video detection shall be installed on the northbound approach of MD 924 (Main Street). MD 924 (Main Street) is assumed to run a north-south direction.

II. INTERSECTION OPERATION

- The intersection is to operate in a NEMA five-phase, fully-actuated mode, with the MD 924 (Main Street) approaches continuing to run concurrently. An Exclusive/Permissive left turn phase shall now be provided for the northbound approaches of MD 924 (Main Street). The pedestrian phase with pushbutton actuation across the north leg of MD 924 (Main Street) shall remain in operation. The E Mac Phail Road approaches shall also continue to run concurrently.
- Video interface shall be installed by SHA Forces into 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.

III. SPECIAL NOTES

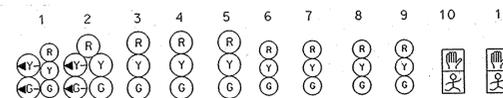
- The SHA Forces shall be responsible for terminating all signal cables, to the appropriate terminals and shall properly label each cable.
- All controller cabinet wiring will be performed by the S.H.A. Signal Shop

EQUIPMENT LIST (CONT.)

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY SHA

| ITEM NO. | DESCRIPTION | QUANTITY |
|----------|---|----------|
| | Maintenance of traffic per assignment. | 1 EA |
| | 12" LED signal head section. | 10 EA |
| | 8" LED signal head section. | 3 EA |
| | Remove and dispose of existing material & equipment per assignment. | 1 EA |
| | Video detector camera & cable up to 500'. | 1 EA |
| | Electrical cable - 7 conductor (No. 14 AWG). | 225 L.F. |

PHASING DIAGRAM



| PHASE 1 & 6 | ←G-/G | ←G-/G | G | R | R | R | R | R | R | R | DW | DW | |
|--------------------|-------|-------|------|------|------|------|------|------|------|------|-------|-------|--|
| 1 & 6 CHANGE | ←Y-/G | ←Y-/G | G | R | R | R | R | R | R | R | DW | DW | |
| PHASE 2 & 6 | G | G | G | G | G | R | R | R | R | R | DW | DW | |
| 2 & 6 CHANGE | Y | Y | Y | Y | Y | R | R | R | R | R | DW | DW | |
| PHASE 4 & 8 | R | R | R | R | R | G | G | G | G | G | DW | DW | |
| 4 & 8 CHANGE | R | R | R | R | R | Y | Y | Y | Y | Y | DW | DW | |
| PHASE 4 & 8 ALT | R | R | R | R | R | G | G | G | G | G | WK | WK | |
| PED CLEARANCE | R | R | R | R | R | G | G | G | G | G | FL/DW | FL/DW | |
| 4 & 8 ALT CHANGE | R | R | R | R | R | Y | Y | Y | Y | Y | DW | DW | |
| FLASHING OPERATION | FL/Y | FL/Y | FL/Y | FL/Y | FL/Y | FL/R | FL/R | FL/R | FL/R | FL/R | DARK | DARK | |

The contact persons for District #4 are as follows:

Mr. Randall Scott
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Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
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Mr. Steve Marciszewski
Assistant District Engineer - Maintenance
Phone: (410) 321-2761

Mr. Ed Rodenhizer
Signal Shop
410-787-7652

Mr. Michael Pasquariello
Assistant District Engineer - Utility
Phone: (410) 321-2841

Mr. Sonny Bailey
Sign Shop
410-787-7670

C. EQUIPMENT TO BE REMOVED

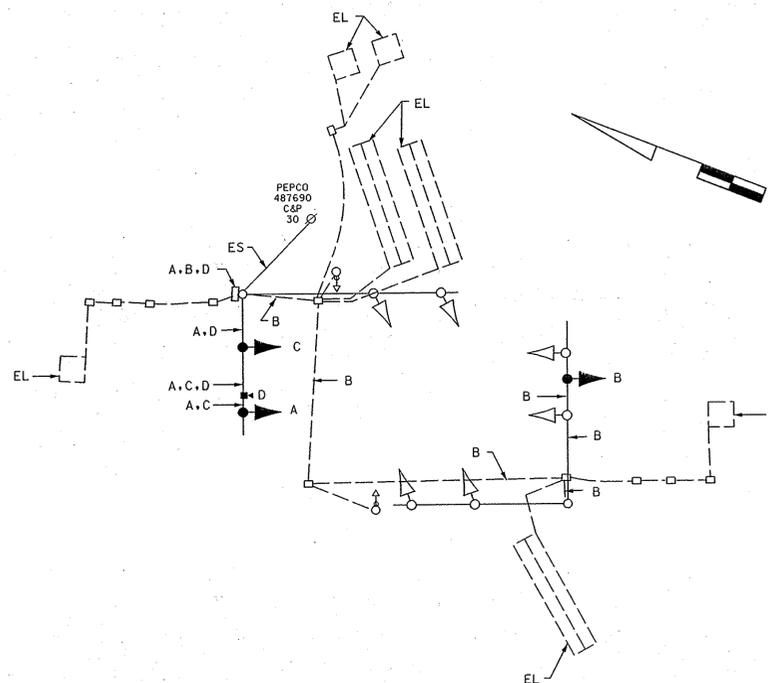
All removed signal materials are to become property of the SHA.

EQUIPMENT LIST

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

| ITEM NO. | DESCRIPTION | QUANTITY |
|----------|--|----------|
| 9086 | Video detection interface equipment: 1-4 cameras (To be installed by signal shop). | 1 EA |

WIRING DIAGRAM



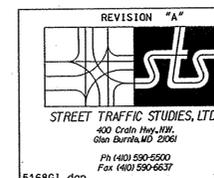
WIRING KEY

- A } EXISTING CABLE
- B } 7- CONDUCTOR CABLE (NO. 14 A.W.G)
- C - EXISTING CABLE CABLE (NO. 14 A.W.G.)
- D - CONTROL CABLE (UP TO 500')
- EL - LOOP WIRE (NO. 14 A.W.G.) EXISTING
- ES - EXISTING OVERHEAD SERVICE TO BE MAINTAINED BY PEPCO

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
MD 924 (Emmorton Road) /
Main Street and
E. Mac Phail Road

GENERAL INFORMATION SHEET

| | | |
|---------------------|---------------------|--------------|
| SCALE NONE | DATE 9/22/06 | CONTRACT NO. |
| DESIGNED BY J ALLEN | COUNTY HARFORD | |
| DRAWN BY R.C. | LOGMILE 12092404.81 | |
| CHECKED BY | TMS NO. H852 | |
| F.A.P. NO. | TOD NO. | |
| TS NO. 2063A | DRAWING NO. 2 OF 2 | SHEET NO. OF |



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