

**PROJECT DESCRIPTION**

**I. GENERAL**

This portion of the project involves the modification to the existing traffic control signal at the intersection of US Route 1 and Contee Road in Prince George's County, Maryland. US Route 1 is considered to run in a north/south direction.

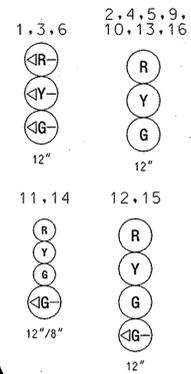
The modification will coincide with Phase V of the maintenance of traffic plans to install a box culvert under the north leg of US Route 1.

Phase V involves the relocation of existing signal heads, signs and detection zones to coincide with the temporary lane placement.

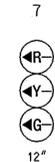
**II. INTERSECTION OPERATION**

The existing cabinet/ controller phasing shall be utilized.

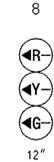
**EXISTING SIGNALS**



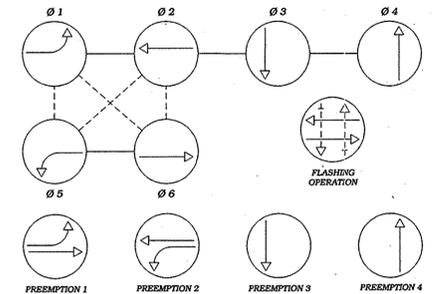
**PROPOSED SIGNAL**



**BAGGED SIGNAL**

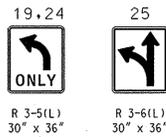


**EXISTING NEMA PHASING**

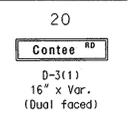


NEMA notes:  
Phases associated by a dashed line will operate concurrently.  
Phases associated by a solid line will not operate concurrently.

**EXISTING SIGNS**



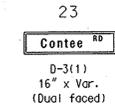
**RELOCATE EXISTING SIGN**



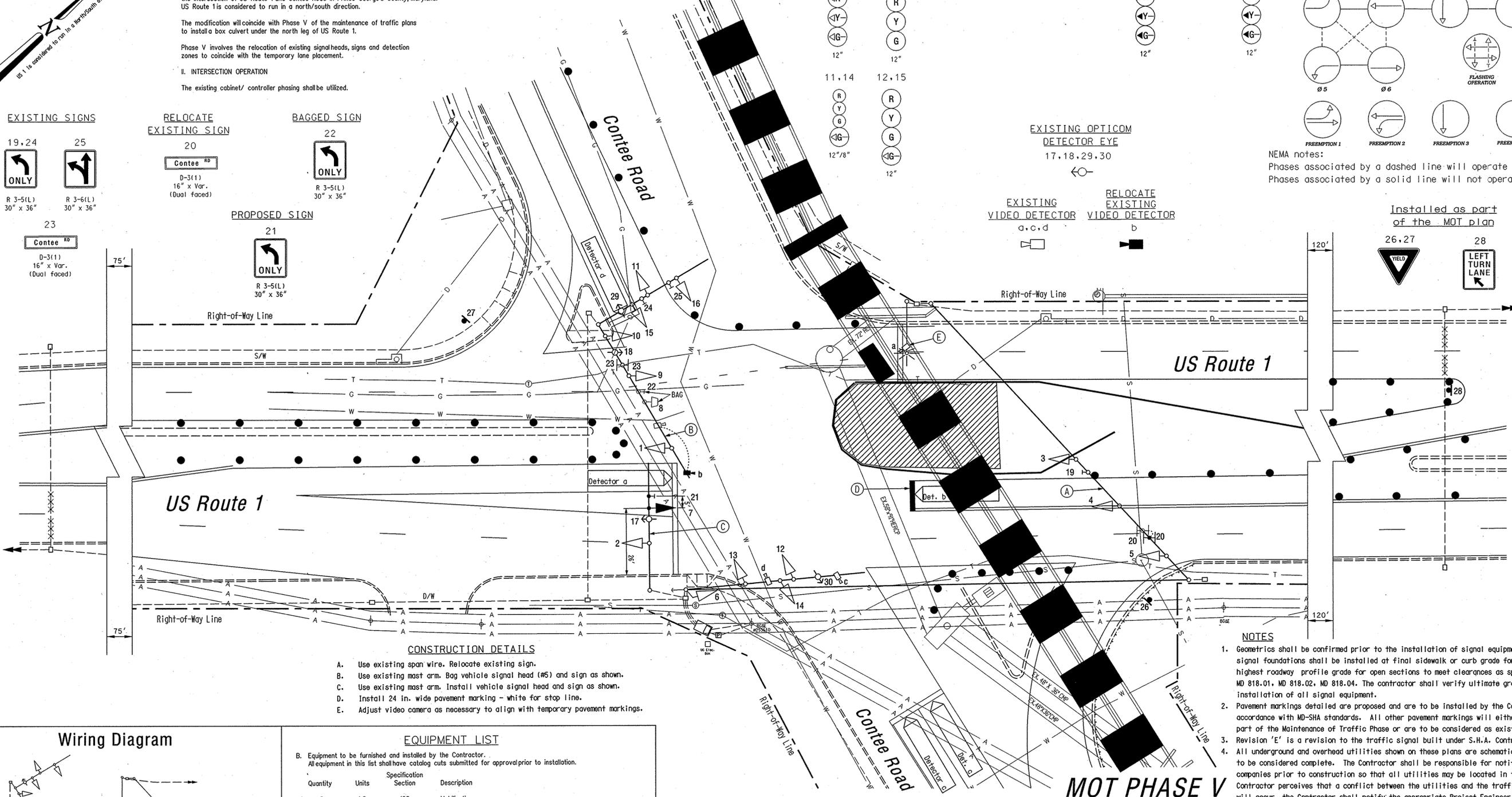
**BAGGED SIGN**



**PROPOSED SIGN**



Installed as part of the MOT plan



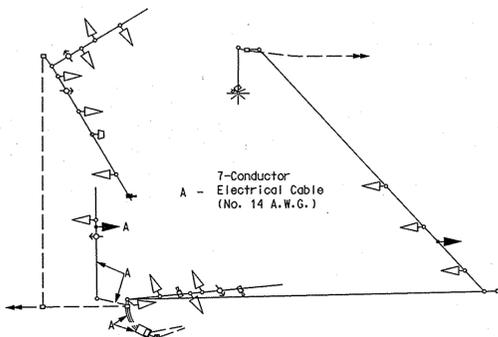
**CONSTRUCTION DETAILS**

- A. Use existing span wire. Relocate existing sign.
- B. Use existing mast arm. Bag vehicle signal head (#5) and sign as shown.
- C. Use existing mast arm. Install vehicle signal head and sign as shown.
- D. Install 24 in. wide pavement marking - white for stop line.
- E. Adjust video camera as necessary to align with temporary pavement markings.

**NOTES**

1. Geometrics shall be confirmed prior to the installation of signal equipment. All traffic signal foundations shall be installed at final sidewalk or curb grade for closed sections, highest roadway profile grade for open sections to meet clearances as specified in MD 816.03, MD 818.01, MD 818.02, MD 818.04. The contractor shall verify ultimate grades prior to the installation of all signal equipment.
2. Pavement markings detailed are proposed and are to be installed by the Contractor in accordance with MD-SHA standards. All other pavement markings will either be installed as part of the Maintenance of Traffic Phase or are to be considered as existing.
3. Revision 'E' is a revision to the traffic signal built under S.H.A. Contract No.: XX1005185.
4. All underground and overhead utilities shown on these plans are schematic and are not to be considered complete. The Contractor shall be responsible for notifying all utility companies 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 equipment will occur, the Contractor shall notify the appropriate Project Engineer immediately.

**Wiring Diagram**

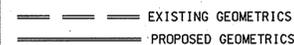


**EQUIPMENT LIST**

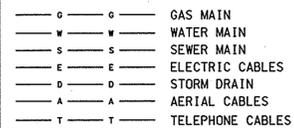
B. Equipment to be furnished and installed by the Contractor.  
All equipment in this list shall have catalog cuts submitted for approval prior to installation.

| Quantity | Units | Specification Section | Description  |
|----------|-------|-----------------------|--|
| Lump Sum | LS    | 108                   | Mobilization.  |
| Lump Sum | LS    | 104                   | Maintenance of traffic.  |
| 1        | EA    | 814                   | 12 in., one-way, three section (R,Y,G) adjustable black faced traffic signal head with mast arm mounting hardware and tunnel visors. |
| 1        | EA    | 813                   | 30 in. x 36 in. R 3-5(L) sign with mast arm mounting hardware.   |
| 110      | LF    | 810                   | 7-conductor electrical cable (No. 14 A.W.G.).  |
| 12       | LF    | 549                   | 24 in. wide HAPPTM - white for stop line.  |
| 1        | EA    | ---                   | Adjust video detector camera.  |
| 1        | EA    | ---                   | Relocate existing sign.  |
| Lump Sum | LS    | ---                   | Relocate existing signal equipment.  |

**GEOMETRIC LEGEND**



**UTILITY LEGEND**



**Revision "G"**



**REVISIONS**

| No. | Description   | Date    |
|-----|---|---------|
| 1   | Reconstruct Traffic Signal due to Geometric Widening. | 5/20/05 |

**APPROVALS**

|  |  |
|--|--|
| TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION |  |
| ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION  |  |
| CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION       |  |
| DIRECTOR, TRAFFIC & SAFETY                       |  |



**MARYLAND DOT - STATE HIGHWAY ADMINISTRATION**  
Office of Traffic & Safety  
TRAFFIC ENGINEERING DESIGN DIVISION  
(Traffic Signal Plan)

**US Route 1 at Contee Road**

|                 |                         |                       |           |
|-----------------|-------------------------|-----------------------|-----------|
| DRAWN BY:       | F.A.P. NO. N/A          | TS NO. 1536G-X5       | SHEET NO. |
| CHECKED BY:     | S.H.A. NO. XX1005185    | T.I.M.S. NO.          | 7 OF 10   |
| SCALE: 1" = 20' | COUNTY: Prince George's | LOG MILE: 16000111.49 |           |
| DATE:           |                         |                       |           |

171999-1899-0913A.dwg (Signal) mds: jay/dp 5/20/2005