

THIS PORTION OF THE PROJECT INVOLVES THE INSTALLATION OF A NEW TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 140 (REISTERSTOWN ROAD) AND I-695 IN BALTIMORE COUNTY, MD 140 IS ASSUMED TO RUN IN A EAST / WEST DIRECTION.

### INTERSECTION OPERATION

THE INTERSECTION IS TO OPERATE IN A NEMA 6 PHASE MODE. EACH OF THE RAMPS FROM I-695 WILL HAVE ITS OWN PHASE. BOTH LEFT TURNS FROM MD 140 WILL RUN CONCURRENTLY FOLLOWED BY MD 140 EAST ONLY OR WEST ONLY. NEXT, THE THROUGH MOVEMENTS ON MD 140 WILL RUN CONCURRENTLY.

### EQUIPMENT LIST

A. Equipment to be supplied by the Administration and installed by the Contractor.

| Item # | Spec # | Item   | units | 6  | 7 | 8 | 9 | Total |
|--------|--------|--|-------|----|---|---|---|-------|
| 900000 | 900    | Sheet aluminum sign to consist of:                         | SF    | 51 | 0 | 0 | 0 | 51    |
|        |        | R3-5(L) "LEFT ONLY" SIGN 30"x36" - SPAN MOUNTED            | EA    | 2  | 0 | 0 | 0 | 2     |
|        |        | R3-1 "NO RIGHT TURN" SIGN 36"x36" - BANDED TO POLE MOUNTED | EA    | 2  | 0 | 0 | 0 | 2     |
|        |        | R5-1 "DO NOT ENTER" SIGN 36"x36" - BANDED TO POLE MOUNTED  | EA    | 2  | 0 | 0 | 0 | 2     |

B. Equipment to be furnished and installed by the Contractor.

| Item # | Spec # | Item   | units | 6    | 7  | 8  | 9  | Total |
|--------|--------|--|-------|------|----|----|----|-------|
| 860265 | 814    | Relocate existing signal head section                                | EA    | 0    | 24 | 21 | 12 | 57    |
| 805135 | 805    | Furnish and install 3" schedule 80 rigid PVC conduit-trenched        | LF    | 20   | 0  | 0  | 0  | 20    |
| 802501 | 810    | Furnish and install no. 6 awg stranded bare copper ground wire       | LF    | 200  | 0  | 0  | 0  | 200   |
| 869102 | 819    | Furnish and install steel span wire-3/8 in. diameter                 | LF    | 845  | 0  | 0  | 0  | 845   |
| 800000 | 800    | Furnish and install down guy & anchor.                               | LF    | 320  | 0  | 0  | 0  | 320   |
| 861107 | 810    | Furnish and install electrical cable - 5 conductor (no. 14 awg)      | LF    | 1670 | 0  | 0  | 0  | 1670  |
| 837001 | 804    | Furnish and install ground rod - 3/4 inch diameter X 10 foot length  | EA    | 4    | 0  | 0  | 0  | 4     |
| 811001 | 811    | Furnish and install electrical handhole                              | EA    | 1    | 0  | 0  | 0  | 1     |
| 800000 | 800    | Furnish and install 50ft wooden pole                                 | EA    | 4    | 0  | 0  | 0  | 4     |
| 831010 | 806    | Furnish and install 250 watt high pressure sodium lamp and luminaire | EA    | 5    | 0  | 0  | 0  | 5     |
| 866104 | 818    | Furnish and install 20 ft. lighting arm                              | EA    | 5    | 0  | 0  | 0  | 5     |
| 861116 | 810    | Furnish and install electric cable 2 conductor/no. 12 awg            | LF    | 1080 | 0  | 0  | 0  | 1080  |
| 861106 | 810    | Furnish and install electric cable 3 conductor/no. 14 awg            | LF    | 1020 | 0  | 0  | 0  | 1020  |
| 800000 | 800    | Furnish and install video detection type TC system with cameras      | EA    | 4    | 0  | 0  | 0  | 4     |
| 800000 | 800    | Furnish and install coaxial cable                                    | LF    | 1020 | 0  | 0  | 0  | 1020  |
| 813015 | 813    | Install overhead sign  | SF    | 51   | 0  | 0  | 0  | 51    |
| 800000 | 800    | Furnish and install 3" schedule 80 riser                             | LF    | 40   | 0  | 0  | 0  | 40    |
| 800000 | 800    | Furnish and install 12" vehicular traffic signal head section        | EA    | 36   | 0  | 0  | 0  | 36    |
| 800000 | 800    | Furnish and install 24" thermoplastic pavement marking for stop line | LF    | 125  | 75 | 65 | 30 | 295   |

C. Equipment to be removed and salvaged by the Contractor.

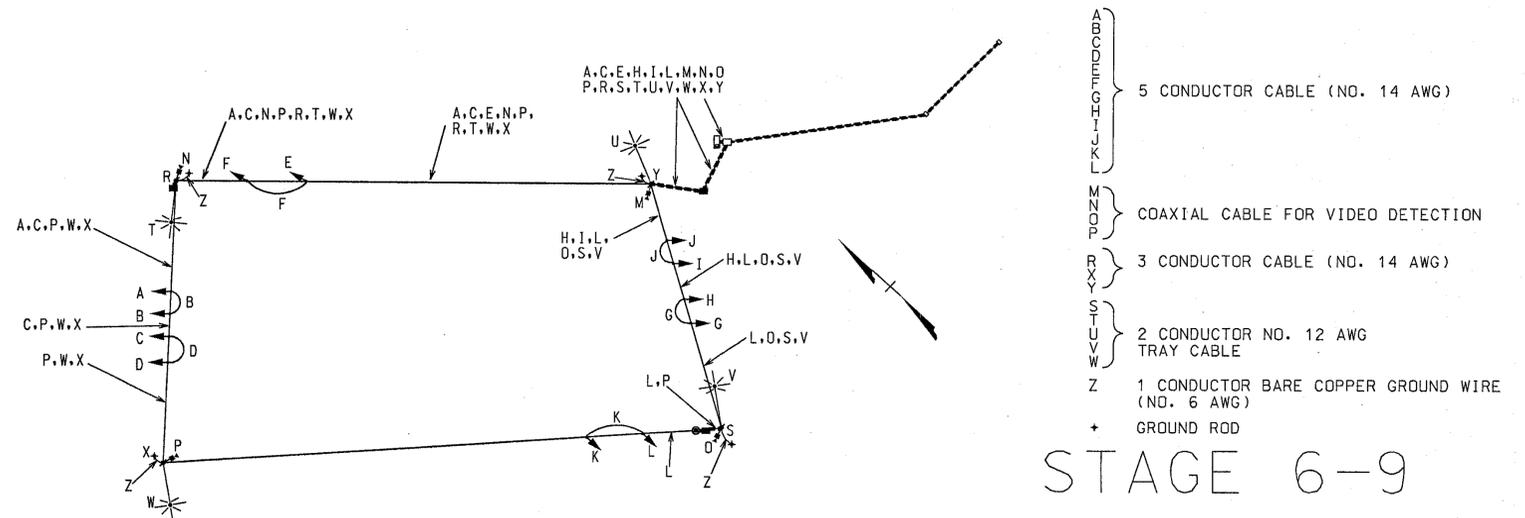
Equipment to be delivered to Mr. Dave Schwartz at OOTS, 7491 Connelley Drive, Hanover, MD, 21076. (Notify at least 72 hours of intended delivery at (419) 787-7658)

| Item # | Spec # | Item | units | 6 | 7 | 8 | 9 | Total |
|--------|--------|------|-------|---|---|---|---|-------|
|        |        |      |       |   |   |   |   |       |

### PHASE CHART

|                    | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |     |
|--------------------|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| PHASE 1 AND 5      | ←  | ←  | R  | R  | ←  | ←  | R  | R  | R  | R  | R  | R  | ↙ ↘ |
| 1 AND 5 CHANGE     | ←Y | ←Y | R  | R  | ←Y | ←Y | R  | R  | R  | R  | R  | R  | ↙ ↘ |
| PHASE 1 AND 6      | ←  | ←  | G  | G  | ←  | ←  | R  | R  | R  | R  | R  | R  | ↙ ↘ |
| 1 AND 6 CHANGE     | ←Y | ←Y | Y  | Y  | ←  | ←  | R  | R  | R  | R  | R  | R  | ↙ ↘ |
| PHASE 2 AND 5      | ←  | ←  | R  | R  | ←  | ←  | G  | G  | R  | R  | R  | R  | ←   |
| 2 AND 5 CHANGE     | ←  | ←  | R  | R  | ←Y | ←Y | Y  | Y  | R  | R  | R  | R  | ←   |
| PHASE 2 AND 6      | ←  | ←  | G  | G  | ←  | ←  | G  | G  | R  | R  | R  | R  | ←   |
| 2 AND 6 CHANGE     | ←  | ←  | Y  | Y  | ←  | ←  | Y  | Y  | R  | R  | R  | R  | ←   |
| PHASE 4            | ←  | ←  | R  | R  | ←  | ←  | R  | R  | G  | G  | R  | R  | ←   |
| PHASE 4 CHANGE     | ←  | ←  | R  | R  | ←  | ←  | R  | R  | Y  | Y  | R  | R  | ←   |
| PHASE 8            | ←  | ←  | R  | R  | ←  | ←  | R  | R  | R  | R  | G  | G  | ←   |
| PHASE 8 CHANGE     | ←  | ←  | R  | R  | ←  | ←  | R  | R  | R  | R  | Y  | Y  | ←   |
| FLASHING OPERATION | FL | ⚡   |

### WIRING DIAGRAM



DWG NO. SS-16

**MARYLAND DOT - STATE HIGHWAY ADMINISTRATION**  
 Office of Traffic & Safety  
 TRAFFIC ENGINEERING DESIGN DIVISION  
 TRAFFIC SIGNALIZATION PLAN  
 MD 140 (REISTERSTOWN ROAD)  
 AND I-695

DRAWN BY: J. JONES  
 CHECKED BY: P. NELSON  
 SCALE: NO SCALE  
 DATE: 5-2000

F.A.P. NO.  
 S.H.A. NO.  
 COUNTY: BALTIMORE  
 LOG MILE:

TS NO. 936B-GI-X6  
 T.I.M.S. NO. D-115  
 SHEET NO. OF

**TRANSORE**  
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 Springfield Virginia 22151  
 Phone: 703-658-4088