

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES REMOVING THE BULBS FROM THE EXISTING TRAFFIC SIGNAL HEADS AND REPLACING THEM WITH NEW LED TRAFFIC SIGNAL MODULES AS WELL AS, INSTALLING 4" BORED CONDUIT AND HANDHOLES IN THE WEST LEG MEDIAN TO THE NORTHWEST QUADRANT AND ACCROSS THE ENTIRE EAST LEG AT THE INTERSECTION OF MD 193 (UNIVERSITY BLVD) AT EAST AVENUE IN MONTGOMERY COUNTY.

MD 193 IS CONSIDERED TO RUN IN AN EAST/WEST DIRECTION.

INTERSECTION OPERATION

A SYSTEM CONTROLLER HOUSED IN A BASE MOUNTED CABINET IS INSTALLED AT THIS LOCATION. THE INTERSECTION WILL OPERATE IN A SEMI-ACTUATED MODE USING 8 NEMA PHASES WITH THE NORTH APPROACH RUNNING SEPARATELY AND THE SOUTH APPROACH RUNNING AS A FREE FLOW RIGHT-IN/RIGHT-OUT.

SPECIAL NOTES

- 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.
- MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING THE FOLLOWING STANDARD PLATES FOR TRAFFIC CONTROL: 104.00 - 30, 104.12 - 01, 104.13 - 01, 104.31 - 01, 104.32 - 01, 104.81 - 02.
- THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:
 MR. JEFFREY WENTZ, ASSISTANT DISTRICT ENGINEER - TRAFFIC
 PHONE: (301) 513-7318
 MR. AUGIE REBISH, ASSISTANT DISTRICT ENGINEER - UTILITY
 PHONE: (301) 513-7350
 MR. WAYNE MOWDY, ASSISTANT DISTRICT ENGINEER - MAINTENANCE
 PHONE: (301) 513-7304
 MR. RICHARD L. DAFF SR., CHIEF - TRAFFIC OPERATIONS DIVISIONS
 PHONE: (410) 787-7630
 THE POWER COMPANY REPRESENTATIVE IS:
 MR. STEVE CUSTER
 POTOMAC ELECTRIC POWER COMPANY
 8300 OLD MARLBORO PIKE
 UPPER MARLBORO, MARYLAND 20772
 PHONE: (301) 548-4333
 KAMAL HAMUD, CHIEF TRAFFIC OPERATIONS DIVISION
 PHONE: (240) 777-8761
 MR. KEITH LORD
 MONTGOMERY COUNTY
 PHONE: (301) 279-1291
 MR. EUGENE BAILEY
 SIGN SHOP
 PHONE: (410) 787-7676

SPECIAL NOTES

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

| CATEGORY CODE NO. | DESCRIPTION | UNITS | QUANTITY |
|-------------------|-------------|-------|----------|
| NONE | | | |

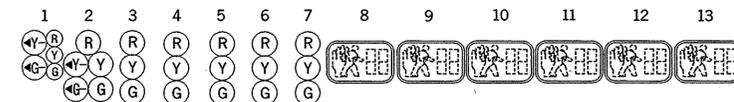
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

| CATEGORY CODE NO. | DESCRIPTION | UNITS | QUANTITY |
|-------------------|--|-------|----------|
| 805118 | 4 INCH SCHED. 80 PVC CONDUIT-BORED | LF | 165 |
| 811001 | FURNISH AND INSTALL ELECTRICAL HANDHOLE | EA | 4 |
| 800000 | REMOVE EXISTING BULB AND INSTALL 8 INCH LED VEHICULAR TRAFFIC SIGNAL MODULE | EA | 3 |
| 800000 | REMOVE EXISTING BULB AND INSTALL 12 INCH LED VEHICULAR TRAFFIC SIGNAL MODULE | EA | 22 |

C. SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILLIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

| CATEGORY CODE NO. | DESCRIPTION | UNITS | QUANTITY |
|-------------------|-------------|-------|----------|
| NONE | | | |

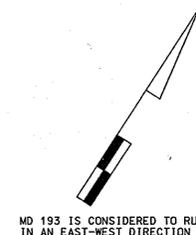
PHASE CHART



| | | | | | | | | | | | | | | |
|--------------------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|--|
| PHASE 1 AND 6 | G | G | G | R | R | R | R | DW | DW | DW | DW | DW | DW | |
| 01 CHANGE | G | G | G | R | R | R | R | DW | DW | DW | DW | DW | DW | |
| PHASE 2 AND 6 | G | G | G | G | G | R | R | WK | WK | DW | DW | DW | DW | |
| PED CLEARANCE | G | G | G | G | G | R | R | FL/DW | FL/DW | DW | DW | DW | DW | |
| 2 AND 6 CHANGE | Y | Y | Y | Y | Y | R | R | DW | DW | DW | DW | DW | DW | |
| PHASE 4 | R | R | R | R | R | G | G | DW | DW | DW | DW | DW | DW | |
| 4 CHANGE | R | R | R | R | R | Y | Y | DW | DW | DW | DW | DW | DW | |
| PHASE 4 ALT. | R | R | R | R | R | G | G | DW | DW | WK | DW | DW | WK | |
| PED CLEARANCE | R | R | R | R | R | G | G | DW | DW | FL/DW | DW | DW | FL/DW | |
| 4 ALT. CHANGE | R | R | R | R | R | Y | Y | DW | DW | DW | DW | DW | DW | |
| PHASE 8 ALT. | R | R | R | R | R | G | G | DW | DW | DW | WK | WK | DW | |
| PED CLEARANCE | R | R | R | R | R | G | G | DW | DW | DW | FL/DW | FL/DW | DW | |
| 8 ALT. CHANGE | R | R | R | R | R | Y | Y | DW | DW | DW | DW | DW | DW | |
| FLASHING OPERATION | FL/Y | FL/Y | FL/Y | FL/Y | FL/Y | FL/R | FL/R | DARK | DARK | DARK | DARK | DARK | DARK | |

WIRING DIAGRAM

NO CHANGE



BY: jholloway

SUA STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 OFFICE OF TRAFFIC & SAFETY
 TRAFFIC ENGINEERING DESIGN DIVISION
 MD 193 (UNIVERSITY BLVD) - FARRAGUT AVE TO MD 586
 MD 193 (UNIVERSITY BLVD) @ EAST AVE

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WBCM
 ARCHITECTURE ENGINEERING CONSTRUCTION

TRAFFIC SIGNAL - GENERAL INFORMATION

SCALE: NTS ADVERTISED DATE: 05/02/2008 CONTRACT NO.: MOS785177

DESIGNED BY: JEH COUNTY: MONTGOMERY
 DRAWN BY: JEH LOGMILE: 15019301.13
 CHECKED BY: DSU TMS NO.: 1786
 F.A.P. NO.: SEE TITLE SHEET TOD NO.:

TS NO. 2265A DRAWING **SG-6** OF 8 SHEET NO. 43 OF 45