PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE INSTALLATION OF PEDESTRIAN PHASES ALONG THE SOUTH AND EAST SIDE OF THE INTERSECTION.

INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A NEMA EIGHT-PHASE, FULLY ACTUATED MODE WITH EXCLUSIVE/PERMISIVE LEFT TURN PHASING ON ALL APPROACHES

THE EXISTING CONTROLLER AND CABINET WILL BE USED
TWO NEMA LOAD SWITCHES WILL BE ADDED FOR NEW PEDESTRIAN PHASES

PHASING CHANGES WILL CONSIST OF ADDING PEDESTRIAN PHASING TO PHASES 2 AND 4

PROJECT CONTACTS

MR. LARRY ELLIOTT
ASSISTANT DISTRICT ENGINEER, TRAFFIC
410-841-1003

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MR. ROBERT SNYDER
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TEAM LEADER, SIGNAL OPERATIONS
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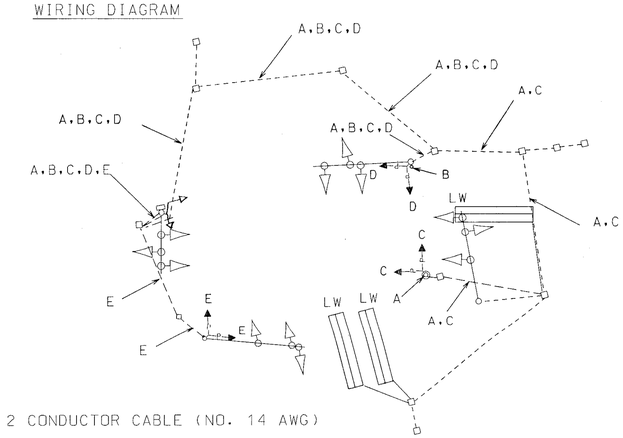
A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

| ITEM NO. | QUANTITY | DESCRIPTION |
|---|---|---|
| 9007 | 2 EA | (CONT/CAB/ADD) NEMA LOAD SWITCH |
| 9089 | 110 SF | FLAT SHEET ALUM SIGN-YELLOW, ORANGE, & SILVER (SF) |
| | | 9 EACH W11-2A (36"X36") |
| | | 4 EACH M6-2R (21"X21") |
| | | 5 EACH M6-2R (21"X21") |
| | | 2 EACH R10-3C (9"X12") TO READ PUSH BUTTON TO CROSS MD 5 |
| 9096 | 2 EA | PUSHBUTTON AND SIGN |

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

| ITEM NO. | QUANTITY | DESCRIPTION |
|---|---|---|
| 1001 | 1 EA | MAINTENANCE OF TRAFFIC |
| 5003 | 290 LF | 12 INCH WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS |
| 5004 | 80 LF | 24 INCH WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS |
| 5007 | 100 LF | REMOVE EXISTING PAVEMENT MARKINGS - ANY WIDTH |
| 8003 | 1 EA | FURNISH AND INSTALL BREAKAWAY PEDESTAL POLE (ANY SIZE) |
| 8018 | 3 EA | INSTALL PUSHBUTTON AND SIGN |
| 8021 | 420 LF | FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR) |
| 8022 | 30 LF | FURNISH AND INSTALL 1 INCH ELECTRICAL CONDUIT - GALVANIZED SLEEVE |
| 8040 | 1480 LF | FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG) |
| 8042 | 710 LF | FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO 14 AWG) |
| 8044 | 960 LF | FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO 14 AWG) |
| 8050 | 64 LF | FURNISH AND INSTALL WOOD SIGN SUPPORTS 4 INCH X 4 INCH |
| 8052 | 108.8 SF | INSTALL GROUND MOUNTED SIGN |
| 8084 | 12 EA | FURNISH AND INSTALL 12 INCH PEDESTRIAN SIGNAL HEAD SECTION |

WIRING DIAGRAM




A,B = 2 CONDUCTOR CABLE (NO. 14 AWG)
C-E = 5 CONDUCTOR CABLE (NO. 14 AWG)
LW = LOOP WIRE

PHASE CHART

| | 1,2 | 3 | 4,5 | 6 | 7,8 | 9 | 10,11 | 12 | 13,16 | 14,15 | 18,19 | 17,20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Phase 1 & 5 | ◄G-R | R | ◄G-R | R | R | R | R | R | DW | DW | DW | DW |
| 1 & 5 Change | THE CONTROLLER MAY SKIP TO PHASES 1 & 6 OR 2 & 5 OR 2 & 6 | | | | | | | | | | | |
| Phase 1 & 6 | ◄G-G | G | R | R | R | R | R | R | DW | DW | DW | DW |
| 1 Change | ◄Y-G | G | R | R | R | R | R | R | DW | DW | DW | DW |
| Phase 2 & 5 | R | R | ◄G-G | G | R | R | R | R | DW | DW | DW | DW |
| 5 Change | R | R | ◄Y-G | G | R | R | R | R | DW | DW | DW | DW |
| Phase 2 & 6 | G | G | G | G | R | R | R | R | WK | WK | DW | DW |
| Ped Clear | G | G | G | G | R | R | R | R | FL/DW | FL/DW | DW | DW |
| 2 & 6 Change | Y | Y | Y | Y | R | R | R | R | DW | DW | DW | DW |
| Phase 3 & 7 | R | R | R | R | ◄G-R | R | ◄G-R | R | DW | DW | DW | DW |
| 3 & 7 Change | THE CONTROLLER MAY SKIP TO PHASES 3 & 8 OR 4 & 7 OR 4 & 8 | | | | | | | | | | | |
| Phase 3 & 8 | R | R | R | R | R | R | ◄G-G | G | DW | DW | DW | DW |
| 3 Change | R | R | R | R | R | R | ◄Y-G | G | DW | DW | DW | DW |
| Phase 4 & 7 | R | R | R | R | ◄G-G | G | R | R | DW | DW | DW | DW |
| 7 Change | R | R | R | R | ◄Y-G | G | R | R | DW | DW | DW | DW |
| Phase 4 & 8 | R | R | R | R | G | G | G | G | DW | DW | DW | DW |
| 4 & 8 Change | R | R | R | R | Y | Y | Y | Y | DW | DW | DW | DW |
| 4 & 8 Alt. | R | R | R | R | G | G | G | G | DW | DW | WK | WK |
| Ped. Clear | R | R | R | R | G | G | G | G | DW | DW | FL/DW | FL/DW |
| 4 & 8 Change | R | R | R | R | Y | Y | Y | Y | DW | DW | DW | DW |
| Flashing Operation | FL/Y | FL/Y | FL/Y | FL/Y | FL/R | FL/R | FL/R | FL/R | Dark | Dark | Dark | Dark |

REVISIONS

| | | | | | |
|---|---|---|---|---|---|
| F | INSTALL PEDESTRIAN PHASES ON THE SOUTH AND EAST LEGS TIMS D-340 6/99 | | | | |
| JAH | | | | | |
| E | 05-96 - MODIFIED SIGNAL DUE TO WIDENING ON N/B MD 245 SHA NO. AW104N82 | | | | |
| WM | DJD | DAZ | | | |
| D | 1-93 - INSTALL E/P LEFT TURN N/B MD 245 | | | | |
| MAR | SR | DAZ | ETP | | TH |
| C | 6/92 - INSTALL E/P LEFT TURN W/B MD 245 | | | | |
| SB | | | | | |

APPROVALS

ORIGINAL ON FILE

TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION

ASST. 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

MD 5 AND MD 245

| | | | |
|---|---|---|---|
| DRAWN BY: J. HENKEL | F.A.P. NO. | TS NO. TS 80 F (GI) | SHEET NO. |
| CHECKED BY: | S.H.A. NO. | | |
| SCALE: NOT TO SCALE | COUNTY: ST. MARY'S | T.I.M.S. NO. D-340 | 2 OF 2 |
| DATE: 6/17/99 | LOG MILE: 18000526.70 | | |