

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE INSTALLATION OF A TRAFFIC SIGNAL SYSTEM ON MARYLAND ROUTE 177 AND RECUTTING THE LOOPS AT MD 177 AND MD 648 IN ANNE ARUNDEL COUNTY. THE SYSTEM IS FROM MD 2 TO MD 648. SAMPLING STATIONS WILL NOT BE INCLUDED UNDER THIS PROJECT. THE FOLLOWING INTERSECTIONS WILL BE INCLUDED IN THIS SIGNAL SYSTEM:

- a.) MD 648
- b.) RAMP TO MD 10 NB
- c.) RAMP FROM MD 10 SB
- d.) EAST ENTRANCE TO SOUTHDALE SHOPPING CENTER
- e.) WEST ENTRANCE TO SOUTHDALE SHOPPING CENTER
- f.) MD 2

GENERAL NOTES

1. THE CONTRACTOR MUST VERIFY LOCATION OF ALL EXISTING UTILITIES AND EXISTING GEOMETRICS PRIOR TO ANY WORK.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION AND INSTALLED BY SIGNAL SHOP

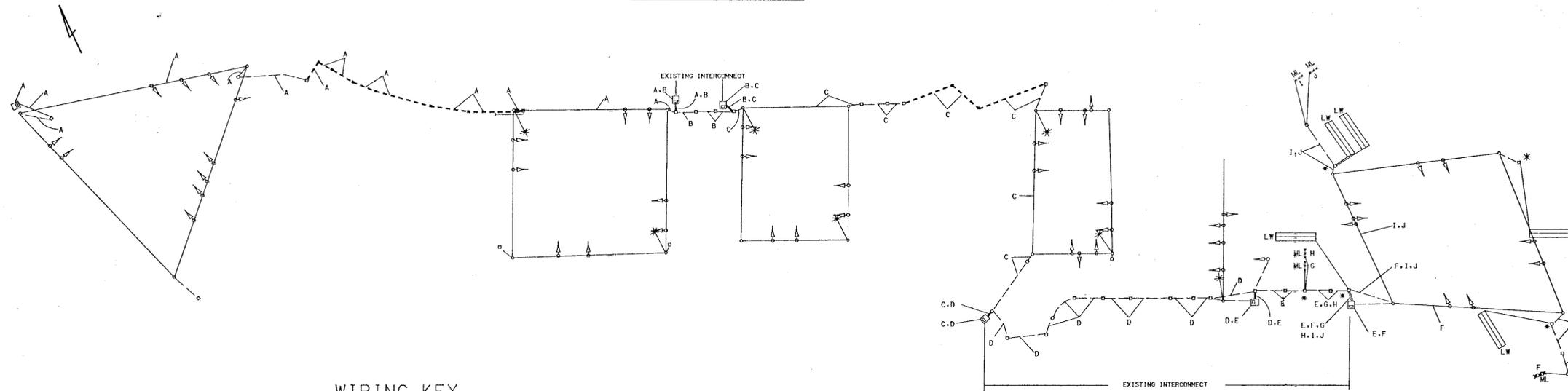
| ITEM NO. | QUANTITY | DESCRIPTION                      |
|----------|----------|----------------------------------|
| 9000     | 1 EACH   | MASTER CONTROLLER                |
| 9000     | 6 EACH   | QUICK CONNECT                    |
| 9000     | 6 EACH   | TELEMETRY INTERFACE WITH HARNESS |

EQUIPMENT LIST "B"

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

| ITEM NO. | QUANTITY  | DESCRIPTION  |
|----------|-----------|--|
| 1001     | 2 EACH    | MAINTENANCE OF TRAFFIC   |
| 8014     | 10 EACH   | FURNISH AND INSTALL 3" WEATHERHEAD   |
| 8029     | 5 EACH    | FURNISH AND INSTALL MICROLOOP PROBE SET WITH 500 FOOT LEAD -IN                             |
| 8044     | 1100 L.F. | FURNISH AND INSTALL 3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED                        |
| 8053     | 15 L.F.   | FURNISH AND INSTALL 1" ELECTRICAL CONDUIT - GALVANIZED SLEEVE                              |
| 8055     | 180 L.F.  | FURNISH AND INSTALL 3 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED                           |
| 8060     | 33 L.F.   | FURNISH AND INSTALL 1" LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR WIRE SLEEVE |
| 8063     | 8 EACH    | FURNISH AND INSTALL ELECTRICAL HANDHOLE  |
| 8068     | 2825 L.F. | FURNISH AND INSTALL 12-PAIR COMMUNICATION CABLE, JELLYFILLED (UNDERGROUND)                 |
| 8078     | 2625 L.F. | FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 A.W.G.)                   |
| 8079     | 680 L.F.  | FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)                                     |

WIRING DIAGRAM



WIRING KEY

- A.C } 12 PAIR COMMUNICATION CABLE JELLYFILLED (NO. 19 A.W.G.)
- B.D.E } EXISTING 12 PAIR COMMUNICATION CABLE JELLYFILLED (NO. 19 A.W.G.)
- F-J } MICROLOOP PROBE SET 500' LEAD-IN
- LW } LOOP WIRE (NO. 14 A.W.G.)
- ML } MICROLOOP PROBE SET
- \* } SPLICE NEW LOOP WIRE TO EXISTING 2 CONDUCTOR ALUMINUM SHIELDED CABLE

**MARYLAND DOT - STATE HIGHWAY ADMINISTRATION**  
 Office of Traffic & Safety  
**TRAFFIC ENGINEERING DESIGN DIVISION**  
 GENERAL INFORMATION SHEET

**MD 177 FROM MD 2 TO MD 648**

**DCI**  
 CONSULTING ENGINEERS  
 COLUMBIA, MARYLAND

|                     |                           |                   |                  |
|---------------------|---------------------------|-------------------|------------------|
| DRAWN BY: AMF       | F.A.P. NO. N/A            | TS NO. 2120-GI    | SHEET NO. 3 OF 6 |
| CHECKED BY: DLA     | S.H.A. NO. 44685-DE-31B53 | T.I.M.S. NO. D691 |                  |
| SCALE: 1"=50'       | COUNTY: ANNE ARUNDEL      |                   |                  |
| DATE: OCTOBER, 2000 | LOG MILE:                 |                   |                  |