

SECTION 780
INTELLIGENT TRANSPORTATION SYSTEMS -
GENERAL REQUIREMENTS

780-1 Description.

The provisions contained in this Section include general requirements for all intelligent transportation system (ITS) devices and equipment used on Florida's limited-access and non-limited-access corridors and in transportation management centers (TMCs).

780-2 Equipment and Materials.

Use only ITS equipment and components that meet the requirements of these specifications, and which are listed on the Department's Approved Product List (APL). Use only new equipment and materials, except as specified in the Contract Documents. Ensure that firmware and software furnished and installed as part of an ITS project are the most current and approved releases or versions. Firmware and software updates released during Contractor and manufacturer warranty periods shall be made available at no cost to the Department.

Meet the following requirements:

General Requirements for the Installation and Evaluation of Traffic Control Signals and Devices	Section 603
Guaranties	Section 608
Acceptance Procedures for Traffic Control Signals and Devices	Section 611
Traffic Control Signal and Device Installation Grounding	Section 620
Electrical Power Service Assemblies.....	Section 639
ITS Motorist Information Systems	Section 781
ITS Video Equipment	Section 782
ITS Fiber Optic Cable and Interconnect	Section 783
ITS Network Devices.....	Section 784
ITS Infrastructure.....	Section 785
ITS Vehicle Detection and Data Collection.....	Section 786

780-3 Installation Requirements.

Install ITS equipment as detailed in the Plans, following the manufacturer's recommendations, and with the review and approval of the Engineer.

Furnish all tools, equipment, materials, supplies, and manufactured hardware necessary for a complete installation. Perform all operations and equipment integration necessary to ensure that the finished ITS equipment functions as depicted in the Plans.

Materials and workmanship shall conform to the requirements of the NEC, the National Electrical Safety Code (NESC), and applicable codes of governing jurisdictions.

780-4 Testing.

Perform the required tests for the ITS equipment installed. Notify the Engineer of ITS installation testing at least 14 days in advance.

Provide the test procedures to the Engineer at least 14 days in advance for approval prior to commencement of testing. Ensure that the test plan demonstrates each and every functional requirement specified for the device or system under test.

Furnish all equipment, software, and supplies necessary for conducting the tests. Include in the test documentation the last calibration date of all test equipment, along with the test parameters as set on the equipment.

All test results shall be compared with their corresponding specifications. Failure to conform to the specifications of any test shall be considered a defect and the equipment shall be subject to rejection by the Engineer. Rejected equipment may be offered again for a retest, provided that all deficiencies have been corrected and evidence thereof has been submitted to the Engineer.