Florida Department of Transportation

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605 Suwannee Street
Tallahassee, FL 32399-0450

STEPHANIE KOPELOUSOS
SECRETARY

February 12, 2010

Monica Gourdine
Program Operations Engineer
Federal Highway Administration
545 John Knox Road, Suite 200
Tallahassee, Florida 32303

Re: Office of Design, Specifications
Section 784
Proposed Specification: ~~7840104~~ *7840202* ITS Network Devices - Revision

Dear Ms. Gourdine:

For your records, we are re-submitting a portion of the above referenced Supplemental Specification approved by your office on 1-27-10.

These changes were proposed by Ron Meyer to clarify technical wording.

Please review and transmit your comments, if any, within two weeks. Comments should be sent via Email to ST986RP or rudy.powell@dot.state.fl.us.

Sincerely,

Rudy Powell, Jr., P.E.
State Specifications Engineer

RP/ft
Attachment
cc: Gregory Jones, Chief Civil Litigation
Florida Transportation Builders' Assoc.
State Construction Engineer

784 INTELLIGENT TRANSPORTATION SYSTEMS–NETWORK DEVICES. (REV ~~1-20~~2-*9*-10) (FA 1-27-10) (7-10)

SUBARTICLE 784-2.2.2 (of the Supplemental Specifications) is deleted and the following substituted:

784-2.2.2 Serial Interface: Ensure that the device server provides a minimum of one serial data interface and connector as specified in the plans that conforms to EIA-232/422/485 standards. Ensure that the ~~device server~~*serial interface* supports 2-wire and 4-wire EIA-485 connections. Ensure that the ~~device server~~ serial port(s) support data rates up to 230 kbps; error detection procedures utilizing parity bits (i.e., none, even, and odd); and stop bits (1 or 2).

Ensure that the device server provides flow control (request to send [RTS]/clear to send [CTS] and transmit on/transmit off [XON/XOFF]), as well as allow control of the data terminal ready (DTR), data carrier detect (DCD), data set ready (DSR), CTS, and RTS signals. Ensure that the device server supports RTS toggle for half-duplex emulation.

SUBARTICLE 784-3.2.9 (of the Supplemental Specifications) is deleted and the following substituted:

784-3.2.9 Serial Interface: Ensure that hardware-based DVEs and DVDs provide a minimum of one serial data interface and connector that conforms to EIA-232/422/485 standards. Ensure that the ~~device server~~*serial interface* supports 2-wire and 4-wire EIA-485 connections. Ensure that the ~~device server~~ serial port(s) support data rates up to 230 kbps; error detection procedures utilizing parity bits (i.e., none, even, and odd); and stop bits (1 or 2).

Ensure that the serial interface provides flow control (request to send [RTS]/clear to send [CTS] and transmit on/transmit off [XON/XOFF]), as well as allow control of the data terminal ready (DTR), data carrier detect (DCD), data set ready (DSR), CTS, and RTS signals. Ensure that the serial interface supports RTS toggle for half-duplex emulation. Ensure that hardware-based DVEs and DVDs provide a TCP/IP interface to their serial port using a network socket connection with configurable IP address and port number.

Serial interface ports may utilize RJ-45 connectors, D-sub connectors, or screw terminals.

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