Introduction

I. Overview
This manual describes the NY State Bridge Data Management System (BDMS); what data is stored, how data is entered and how it is used.

Two main types of data are stored for NY State bridges in BDMS: Inventory Data and Inspection Data. Inventory and Inspection data are recorded for all bridges which carry a public highway, cross over a public highway or cross over a navigable waterway. Other types of data that is stored in BDMS are, Bridge Vulnerability Data(BSA), Historic Bridge Data, Bridge Management System Costs and Diving Inspection Data.

Bridge data is entered using the BDMS Client PC Application. Data is entered by either the Main Office Structures Bridge Data Systems Unit or the Main Office Structures Load Rating Group. Inventory and Inspection Data are organized and updated by Record Code. A Record Code is defined as a group of related bridge data.

BDMS data entry can be accomplished by coding paper forms, generating electronic files with WINBOLTS(Windows Bridge Online Transaction System) or BIPPI(Bridge Inspection Program Pen Interface), both PC based applications or by using the Bridge Load Rating Graphical User Interface within the BDMS application.

The BDMS data is used most importantly to report to Congress each year the number and condition of bridges in NY State, as well as providing the necessary data for the Departments Bridge Replacement and Rehabilitation Program.

The Main Office and Regional Personnel responsible for supporting and maintaining BDMS are:

- ISB   The Information Services Bureau supports the mainframe database and application.
- BDSU  The Bridge Data Systems Unit supports the updating and use of the inventory and inspection data, excluding load rating data.
- BIU   The Bridge Inspection Unit supports the bridge inspection data.
- RBIICs The Regional Bridge Inventory and Inspection Coordinators oversee the collection and processing of the data in the Regional Offices.
- SDLRG The Structures Division Load Rating Group supports the updating and use of bridge load rating data.
II. Bridge Terms

The following terms are used in the Bridge Data Management System:

**Bridge** - a structure including supports erected over a depression or an obstruction, such as water, highway, or railway, and having a track or passageway for carrying traffic or other moving loads, and having an opening measured along the center of the roadway of more than 20 feet* between undercopings of abutments or spring lines of arches, or extreme ends of openings for multiple boxes; it may also include multiple pipes, where the clear distance between openings is less than half of the smaller contiguous opening.

*(6.1 meters)*

**Inventory Bridge** - a bridge is included in the bridge inventory file when it carries a public highway or when it carries moving loads over a public highway or a navigable waterway. Any bridge which recently satisfied one of these conditions, but is now Closed or Collapsed, shall also be considered as an Inventory Bridge until it is declared Abandoned.

**Collapsed Bridge** - a bridge that once satisfied the Inventory Bridge definition, but is now closed due to the collapse of at least one span which prevents the safe passage of any service. Closure became necessary as the result of structural or foundation failure, an accident, or an act of God. If the owner has made no serious effort to restore the structural integrity and physical continuity of the bridge, within three years after its collapse, it shall be declared "Abandoned".

**Closed Bridge** - a closed bridge once satisfied the Inventory Bridge definition, but is now temporarily closed for any reason except collapse. Temporary closure is established by installing barricades to all traffic or to the primary use of the bridge. However, closed highway or railroad bridges may continue to serve secondary uses such as pedestrian traffic. If a bridge has been Closed for five years to vehicular traffic or one year to pedestrian traffic, and the owner has made no serious effort to reopen it, the bridge shall be declared "Abandoned." Closed Bridges are inspected on a regular basis just like bridges which are open to traffic and are eligible to receive Federal and State funds to rehabilitate them.

**Abandoned Bridge** - is a bridge that once satisfied the Inventory Bridge definition, but is now permanently closed. When a bridge is abandoned, it must be barricaded to the all traffic with permanent obstacles. The abandoned bridge will remain in the inactive bridge file until it is demolished. An abandoned bridge is no longer inspected and is no longer eligible to receive Federal and State funds to rehabilitate it.

**Deleted Bridge** - is a bridge which has been deleted from the inventory.

**Temporary Bridge** - is used to maintain traffic during the modification or replacement of another bridge. If a Temporary Bridge will be in service for more than nine months, it should be given a temporary BIN and included in the inventory. The temporary BIN should be the same number as the BIN for the closed structure, except that the last digit is changed to a "T".