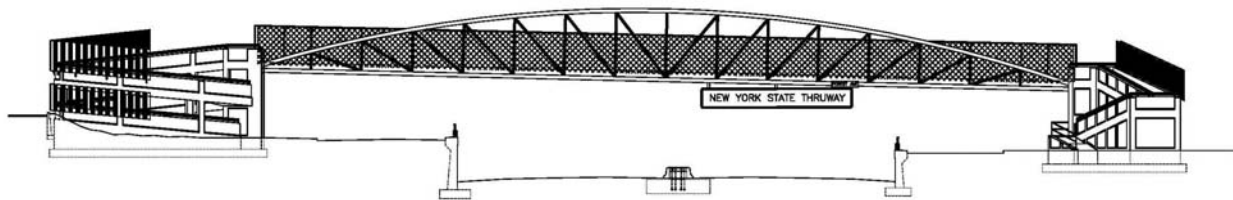




THRUWAY STRUCTURES DESIGN MANUAL

THIRD EDITION



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NOTES TO READER

The Thruway Structures Design Manual (Manual) contains policies, guidance and procedures for structures project development and design for the New York State Thruway Authority (Authority). It is intended to be used as a tool in concert with other available tools such as state and federal manuals, approved design and analysis programs, and current research. While every effort has been made to gather the necessary references and data required to perform the typical design work of the Structural Design Bureau, it is the user's responsibility and obligation to comply with all regulations and requirements including those that may have been omitted from this Manual.

Manual information contained on the Authority's website (www.thruway.state.ny.us) is regularly updated. Users who purchase hard copies of the Manual through the Authority's Contracts Unit will automatically receive revisions. For those users who download the Manual from the Authority's website, revision notifications will be posted on the website. Users are responsible for reviewing the postings to insure that they have the most up-to-date information.

This Manual should prove useful to designers on all Thruway structures projects; however, it is expected that the Professional Engineer will apply all of their experience and resources to develop the best final product possible.

TECHNICAL REFERENCES

As noted above, Professional Engineers should utilize all applicable reference materials in conjunction with this Manual. Reference materials include, but are not limited to, the following:

AASHTO – Standard Specifications for Highway Bridges – 17th Edition
ASTM – 2004 Book of ASTM Standards
AISC – Steel Construction Manual – ASD – Ninth Edition
AWS – 2002 Bridge Welding Code – D1.5
ACI – Building Code Requirements for Structural Concrete – ACI 318-02
NYSDOT Standard Specifications January, 2002 – Including Current Addenda
NYSDOT Steel Construction Manual, 1981 – Including Current Addenda
NYSDOT 2002 Bridge Manual – Including Current Addenda
NYSDOT Highway Design Manual – Including Current Addenda
VAOT 2001 Standard Specifications
VAOT 2001 Structures Manual