



TRANSPORTATION RESEARCH BOARD

TRB Snap Search: Construction

TRB's involvement in research on Construction from 2017-2019

The [Transportation Research Board \(TRB\)](#) provides innovative, research-based solutions to improve how we move. TRB is part of the National Academies of Sciences, Engineering, and Medicine, an independent, non-profit institution that provides objective advice on scientific, engineering, and medical issues.

A resource to the nation and to the transportation community worldwide, TRB provides an extensive portfolio of services:

- Opportunities for information exchange on current transportation research and practice
- Management of cooperative research and other research programs
- Analyses of national transportation policy issues and guidance on federal and other research programs
- Publications and access to research information from around the world

TRB Research

TRID – The world's largest and most comprehensive bibliographic source on all modes and disciplines of transportation

- Click here to view [search results](#) on TRB published research on Construction within the past year.

Subject Webpage

- [Construction Research at TRB](#)

Recent Reports & Publications

- [National Cooperative Highway Research Program \(NCHRP\)](#)
 - [Ready Results](#) - Improving Cost Estimates for Preconstruction Services
 - [Ready Results](#) - Reaping the Benefits of Civil Integrated Management
 - [Ready Results](#) - Updating Fuel Factors for Today's Construction Projects
 - [Ready Results](#) - Optimizing Materials QA to Improve Construction, Save Costs
 - [Report 884](#) - Guidelines for Managing Geotechnical Risks in Design-Build Projects
 - [Report 879](#) - Optimal Replacement Cycles of Highway Operations Equipment
 - [Report 864](#) - Seismic Evaluation of Bridge Columns with Energy Dissipating Mechanisms, Volume 1: Research Overview and Volume 2: Guidelines
 - [Report 864](#) - Seismic Evaluation of Bridge Columns with Energy Dissipating Mechanisms, Volume 1: Research Overview and Volume 2: Guidelines
 - [Synthesis 530](#) - Construction and Rehabilitation of Concrete Pavements Under Traffic
 - [Synthesis 516](#) - Tack Coat Specifications, Materials, and Construction Practices
 - [Synthesis 512](#) - Use of Fiber-Reinforced Polymers in Highway Infrastructure
 - [Synthesis 505](#) - Current Practices and Guidelines for the Reuse of Bridge Foundations
 - [Synthesis 502](#) - Practices for Establishing Contract Completion Dates for Highway Projects
 - [Web-Only Document 254](#) - Underwater Installation of Filter Systems for Scour and Erosion Countermeasures, Volume 2: Training Manual
 - [Web-Only Document 250](#) - Use of Automated Machine Guidance within the Transportation Industry
 - [Web-Only Document 242](#) - Recommended AASHTO Guide Specifications for ABC Design and Construction
- [Transportation Research Circulars](#)
 - [E-Circular 235](#) - Glossary of Transportation Construction Quality Assurance Terms: Seventh Edition
- [Transportation Research Record: Journal of the Transportation Research Board](#)
 - [Volume 2642](#) - Structures
 - [Volume 2630](#) - Construction

Current & Upcoming Projects

- [Current Projects](#)
 - [ACRP 09-15](#) - Building Information Modeling (BIM) Beyond Design
 - [ACRP 11-02/Task 30](#) - Research Roadmap in the Area of Design and Construction of Airport Facilities and Infrastructure

- [ACRP Synthesis 11-03/Topic S01-17](#) - Attracting Investment at General Aviation Airports Through Public-Private Partnerships
 - [NCHRP 03-111](#) - Effectiveness of Work Zone Transportation Management Plan (TMP) Strategies
 - [NCHRP 03-132](#) - Guidance for Safe and Effective Temporary Traffic Control for Mobile Operations on Two-Lane Two-Way Roadways
 - [NCHRP 08-112](#) - A Guidebook for Implementing Alternative Technical Concepts into Project Delivery Methods
 - [NCHRP 08-114](#) - Systematic Approach for Estimating Construction Contract Time: A Guidebook
 - [NCHRP 09-62](#) - Rapid Tests and Specifications for Construction of Asphalt-Treated Cold Recycled Pavements
 - [NCHRP 10-91A](#) - Sustainable Highway Construction Practices
 - [NCHRP 10-100](#) - Procedures and Guidelines for Validating Contractor Test Data
 - [NCHRP 10-101](#) - Improving Mid-Term, Intermediate, and Long-Range Cost Forecasting: Guidance for State Departments of Transportation
 - [NCHRP 12-95A](#) - Proposed AASHTO Guidelines for Adjacent Precast Concrete Box Beam Bridge Systems
 - [NCHRP 18-18](#) - Design and Construction of Deck Bulb Tee Girder Bridges with UHPC
 - [NCHRP 20-107](#) - Effective Construction Project Staffing Strategies for Transportation Agencies
 - [NCHRP 20-07/Task 386](#) - Update to AASHTO "Guide Specifications for Highway Construction"
 - [NCHRP 20-06/Topic 23-04](#) - The Effectiveness of State False Claims Acts in Protecting State Transportation Funding
 - [NCHRP 20-50\(18\)](#) - LTPP Data Analysis: Significance of As-Constructed Asphalt Pavement Air Voids to Pavement Performance
 - [NCHRP Synthesis 20-05/Topic 49-02](#) - Emerging Technologies for Construction Delivery
 - [NCHRP Synthesis 20-05/Topic 49-03](#) - Bridge Demolition Practices
 - [NCHRP Synthesis 20-05/Topic 49-04](#) - Very Short Duration Work Zone Safety for Maintenance and other Activities
 - [NCHRP Synthesis 20-05/Topic 50-01](#) - Advancements in Use of Geophysical Methods for Transportation Projects
 - [NCHRP Synthesis 20-05/Topic 50-07](#) - Electronic Ticketing of Materials for Construction Management
- [Upcoming Projects](#)
 - [ACRP 08-03](#) - Construction Safety and Phasing Plans

Reports from the [National Academies Press](#) on Construction

- [Bolting Reliability for Offshore Oil and Natural Gas Operations](#)
- [Improving Motor Carrier Safety Management](#)
- [Review of the Research Program of the U.S. DRIVE Partnership: Fifth Report](#)

Committees & Panels

[Sign-up to be a committee "Friend"](#)

[TRB Standing Committees](#) – Search by transportation mode and committee topic

- [AF000](#) – Design and Construction
- [AFB80](#) – Geospatial Data Acquisition Technologies
- [AFH00](#) – Construction
- [AFH10](#) – Construction Management
- [AFH15](#) – Project Delivery Methods
- [AFH20](#) – Quality Assurance Management
- [AFH30](#) – Emerging Design and Construction Technologies
- [AFH40](#) – Construction of Bridges and Structures
- [AFH50](#) – Concrete Pavement Construction and Rehabilitation
- [AFH60](#) – Asphalt Pavement Construction and Rehabilitation
- [AFH70](#) – Fabrication and Inspection of Metal Structures
- [AFH80](#) – Disadvantaged Business Enterprises
- [AFN40](#) – Concrete Materials and Placement Techniques
- [AFS10](#) – Transportation Earthworks
- [AFS30](#) – Foundations of Bridges and Other Structures
- [AFS80](#) – Stabilization of Geomaterials and Recycled Materials
- [AHB55](#) – Work Zone Traffic Control

[Task Forces](#) - Search for *task force* under committee here

CRP Panels

- [Project Panels Related to Construction](#)

Councils

- [A0040T](#) – Young Member Council

Recent and Upcoming Events

[Upcoming Conferences](#)- Left hand menu “upcoming conferences by topic”
(Conferences cosponsored by TRB are denoted with an asterisk.)

[Sixth International Symposium on Nanotechnology in Construction \(NICOM6\)*](#)

December 2-5, 2018

Hong-Kong, China

[2nd International Intelligent Construction Technologies Group Conference \(IICTG 2019\)*](#)

April 23-25, 2019

Beijing, China

[International Accelerated Bridge Construction \(ABC\) Conference](#)

December 11-13, 2019

Miami, Florida

[Webinars](#) – View upcoming webinars, suggest a webinar or add registration information

[Past Webinars](#)

- [Construction](#)

TRB’s Transportation Research Information Services (TRIS)

TRIS includes the [TRB Library](#) and the [TRIS Databases](#) (listed below) which are available for free on TRB’s website.

The TRB Library provides information services to TRB staff, sponsors, TRB Committee members and panels and researchers. Access to the TRB Library is a benefit to TRB sponsors and TRB committee members.

In cooperation with your State DOT Library or Information Service, the TRB Library provides:

- Reference and research assistance
- Literature searches
- Articles for TRB Committee work

The TRB Library provides training on effective and efficient use of the following TRIS resources:

TRID – The world’s largest and most comprehensive bibliographic source on all modes and disciplines of transportation - trid.trb.org

Practice Ready Papers (PRP) Database - Papers with information that is ready for immediate implementation or requires minimal additional research or implementation effort - prp.trb.org

Publications Index (PubsIndex) Database – The papers, articles and reports published by the Transportation Research Board, Highway Research Board, Strategic Highway Research Programs or the Marine Board - pubsindex.trb.org

Research in Progress (RiP) Database – Current or recently completed transportation research projects - rip.trb.org

Research Needs Statements (RNS) – Research needs as identified by TRB Technical Activities standing committees - rns.trb.org

Contact the Library at TRBLibrary@nas.edu or 1 (202) 334-2989