



TRANSPORTATION RESEARCH BOARD

Construction Overview

TRB at a Glance

The mission of the Transportation Research Board (TRB) is to provide leadership in transportation innovation and progress through research and information exchange, conducted within a setting that is objective, interdisciplinary, and multimodal.

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.

More info at www.trb.org

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

More information about TRIS is available online at: <http://www.trb.org/InformationServices/InformationServices.aspx>
Contact the Library at TRBLibrary@nas.edu or 1 (202) 334-2989

Recent and Upcoming Events

- Conferences (co-sponsored by TRB):
 - June 4-6, 2017 **1st World Transport Convention**
 - July 2, 2017 Dallas, Texas **IBTTA/TRB Joint Symposium on Managed Lanes and All Electronic Tolling**
 - July 15, 2017 Sharm ElSheikh, Egypt **GeoMEast International Conference: "Innovative Infrastructure**

Information continues behind



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Geotechnology”

- August 21, 2017 New York, New York **9th New York City Bridge Conference**
- August 27, 2017 Philadelphia, Pennsylvania **American Society of Civil Engineers (ASCE) 2017 International Conference on Highway and Airfield Technology**
- September 26, 2017 Washington, D.C. **11th University Transportation Center (UTC) Spotlight Conference: Rebuilding and Retrofitting the Transportation Infrastructure**
- September 26, 2017 Minneapolis, Minnesota **1st International Intelligent Construction Group Conference (IICTG 2017)**
- October 15, 2017 Anaheim, California **2017 American Concrete Institute (ACI) Fall Convention**
- November 12, 2017 Dallas, Texas **Second Pan American Conference on Unsaturated Soils (PanAm-UNSAT 2017)**
- December 7, 2017 Miami, Florida **2017 National Accelerated Bridge Construction Conference**
- July 23, 2018 Hangzhou, Zhejiang, China **GeoChina 2018 International Conference**

• Webinars:

- March 21, 2017 **Mini-Roundabouts: Is the US Ready to Take Advantage of Their Benefits?**
- March 28, 2017 **Highway Rumble Strips: Approaches to Balancing Public Safety and Community Noise**
- August 22, 2016 **Moisture and Compaction Measurement during Unbound Aggregate Layer Construction**
- September 12, 2016 **Improved Specimen Preparation for Soil-Cement Design and Construction Monitoring**
- November 30, 2016 **Roller-Compacted Concrete: Recent Research and Development**

View TRB webinars here: <http://www.trb.org/ElectronicSessions/ConferenceRecordings.aspx>

Technical Committees

• Standing Committees:

- Design and Construction Group (AF000)
- Geospatial Data Acquisition Technologies in Design and Construction (AFB80)
- Section - Construction (AFH00)
- Construction Management (AFH10)
- Project Delivery Methods (AFH15)
- Management of Quality Assurance (AFH20)
 - Subcommittee on Quality Management for Alternative Project Delivery
- Application of Emerging Technologies to Design and Construction (AFH30)
- Construction of Bridges and Structures (AFH40)
- Portland Cement Concrete Pavement Construction (AFH50)
- Flexible Pavement Construction and Rehabilitation (AFH60)
- Fabrication and Inspection of Metal Structures (AFH70)
- Disadvantaged Business Enterprises (DBE) (AFH80)
- Concrete Materials and Placement Techniques (AFN40)
- Transportation Earthworks (AFS10)
- Foundations of Bridges and Other Structures (AFS30)
- Cementitious Stabilization (AFS80)
- Chemical, Mechanical, and Asphalt Stabilization (AFS90)
- Work Zone Traffic Control (AHB55)

• Policy Study Committees:

- Committee for Intelligent Construction Systems and Technologies: Program Review (B0133)
- TRB Long-Term Pavement Performance (LTPP) Committee (B0135)

• Council:



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- Young Member Council (A0040T)

To become Friend of any committee visit MyTRB.org

Cooperative Research Program (CRP)

- Recent NCHRP Reports
 - NCHRP Report, Issue 826 (2016) - Estimating Highway Preconstruction Services Costs. Volume 2: Research Report.
 - NCHRP Report, Issue 826 (2016) - Estimating Highway Preconstruction Services Costs. Volume 1: Guidebook.
 - NCHRP Report, Issue 818 (2016) - Comparing the Volumetric and Mechanical Properties of Laboratory and Field Specimens of Asphalt Concrete.
 - NCHRP Report, Issue 817 (2016) - Validation of Guidelines for Evaluating the Moisture Susceptibility of WMA Technologies.
 - NCHRP Report, Issue: 808 - Guidebook on Alternative Quality Management Systems for Highway Construction.
 - NCHRP Report, Issue: 807 - Properties of Foamed Asphalt for Warm Mix Asphalt Applications.
 - NCHRP Report, Issue: 801 - Proposed Practice for Alternative Bidding of Highway Drainage Systems.
 - NCHRP Report, Issue: 787 - Guide for Design Management on Design-Build and Construction Manager/General Contractor Projects.
 - NCHRP Report, Issue: 784 - Best Practices for Crack Treatments for Asphalt Pavements.
 - NCHRP Report, Issue: 757 - Long-Term Performance of Epoxy Adhesive Anchor Systems.
 - NCHRP Report, Issue: 753 - A Pre-Event Recovery Planning Guide for Transportation.
 - NCHRP Report, Issue: 752 - Improved Mix Design, Evaluation, and Materials Management Practices for Hot Mix Asphalt with High Reclaimed Asphalt Pavement Content.
 - NCHRP Report, Issue: 746 - Traffic Enforcement Strategies for Work Zones.
 - NCHRP Report, Issue: 744 - Fuel Usage Factors in Highway and Bridge Construction.
 - NCHRP Report, Issue: 726 - A Guidebook for Nighttime Construction: Impacts on Safety, Quality, and Productivity.
 - NCHRP Report, Issue: 725 - Guidelines for Analysis Methods and Construction Engineering of Curved and Skewed Steel Girder Bridges.
 - NCHRP Report, Issue: 712 - Optimization of Tack Coat for HMA Placement.
 - NCHRP Report, Issue: 701 - Proposed Specifications for LRFD Soil-Nailing Design and Construction.
 - NCHRP Report, Issue: 699 - Guidelines for the Use of Pavement Warranties on Highway Construction Projects.
 - NCHRP Report, Issue: 698 - Application of Accelerated Bridge Construction Connections in Moderate-to-High Seismic Regions.
 - NCHRP Report, Issue: 681 - Development of a Precast Bent Cap System for Seismic Regions.
- Recent NCHRP Synthesis of Highway Practice
 - NCHRP Synthesis of Highway Practice, Issue 499 (2017) Alternate Design/Alternate Bid Process for Pavement-Type Selection.
 - NCHRP Synthesis of Highway Practice, Issue 493 (2016) - Practices for High-Tension Cable Barriers.
 - NCHRP Synthesis of Highway Practice, Issue 491 (2016) - Uses of Mobile Information Technology Devices in the Field for Design, Construction, and Asset Management.
 - NCHRP Synthesis of Highway Practice, Issue 490 (2016) - Practice of Rumble Strips and Rumble Stripes.
 - NCHRP Synthesis of Highway Practice, Issue 484 (2016) - Influence of Geotechnical Investigation and Subsurface Conditions on Claims, Change Orders, and Overruns.
 - NCHRP Synthesis of Highway Practice, Issue: 473 - Indefinite Delivery/Indefinite Quantity Contracting Practices.
 - NCHRP Synthesis of Highway Practice, Issue: 471 - Practices for Developing Transparent Best Value Selection Procedures.
 - NCHRP Synthesis of Highway Practice, Issue: 466 - Alliance Contracting—Evolving Alternative Project Delivery.

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- NCHRP Synthesis of Highway Practice, Issue: 462 - Managing Longitudinal Utility Installations on Controlled Access Highway Right-of-Way.
- NCHRP Synthesis of Highway Practice, Issue: 456 - Non-Nuclear Methods for Compaction Control of Unbound Materials.
- NCHRP Synthesis of Highway Practice, Issue: 455 - Alternative Technical Concepts for Contract Delivery Methods.
- NCHRP Synthesis of Highway Practice, Issue: 450 - Forecasting Highway Construction Staffing Requirements.
- NCHRP Synthesis of Highway Practice, Issue: 438 - Expedited Procurement Procedures for Emergency Construction Services.
- NCHRP Synthesis of Highway Practice, Volume 6, Issue: 435 - Recycled Materials and Byproducts in Highway Applications, Volume 6: Reclaimed Asphalt Pavement, Recycled Concrete Aggregate, and Construction Demolition Waste.
- NCHRP Synthesis of Highway Practice, Volume 8, Issue: 435 - Recycled Materials and Byproducts in Highway Applications, Volume 8: Manufacturing and Construction Byproducts.
- NCHRP Synthesis of Highway Practice, Volume 7, Issue: 435 - Recycled Materials and Byproducts in Highway Applications, Volume 7: Scrap Tire Byproducts.
- NCHRP Synthesis of Highway Practice, Volume 5, Issue: 435 - Recycled Materials and Byproducts in Highway Applications, Volume 5: Slag Byproducts.
- NCHRP Synthesis of Highway Practice, Volume 4, Issue: 435 - Recycled Materials and Byproducts in Highway Applications, Volume 4: Mineral and Quarry Byproducts.
- NCHRP Synthesis of Highway Practice, Volume 3, Issue: 435 - Recycled Materials and Byproducts in Highway Applications, Volume 3: Non-Coal Combustion Byproducts.
- NCHRP Synthesis of Highway Practice, Volume 2, Issue: 435 - Recycled Materials and Byproducts in Highway Applications, Volume 2: Coal Combustion Byproducts.
- NCHRP Synthesis of Highway Practice, Issue: 435 - Recycled Materials and Byproducts in Highway Applications--Summary Report, Volume 1.
- NCHRP Synthesis of Highway Practice, Issue: 429 - Geotechnical Information Practices in Design-Build Projects.
- NCHRP Synthesis of Highway Practice, Issue: 428 - Practices and Procedures for Site-Specific Evaluations of Earthquake Ground Motions.
- NCHRP Synthesis of Highway Practice, Issue: 421 - Recycling and Reclamation of Asphalt Pavements Using In-Place Methods.
- NCHRP Synthesis of Highway Practice, Issue: 418 - Developing Production Pile Driving Criteria from Test Pile Data.
- NCHRP Synthesis of Highway Practice, Issue: 413 - Techniques for Effective Highway Construction Projects in Congested Urban Areas.
- NCHRP Synthesis of Highway Practice, Issue: 402 - Construction Manager-at-Risk Project Delivery for Highway Programs.
- NCHRP Synthesis of Highway Practice, Issue: 390 - Performance-Based Construction Contractor Prequalification.
- NCHRP Synthesis of Highway Practice, Issue: 385 - Information Technology for Efficient Project Delivery.
- NCHRP Synthesis of Highway Practice, Issue: 379 - Selection and Evaluation of Alternative Contracting Methods to Accelerate Project Completion.
- NCHRP Synthesis of Highway Practice, Issue: 376 - Quality Assurance in Design-Build Projects.
- NCHRP Synthesis of Highway Practice, Issue: 372 - Emerging Technologies for Construction Delivery.
- Recent NCHRP Web Documents
 - NCHRP Web Document, Issue: 212 - Alternative Quality Management Systems for Highway Construction.
 - NCHRP Web Document, Issue: 187 - Seismic Design of Geosynthetic-Reinforced Soil Bridge Abutments with Modular Block Facing.
 - NCHRP Web Document, Issue: 183 - Guidance for Managing NEPA-Related and Other Risks in Project Delivery, Volume 2: Expediting NEPA Decisions and Other Practitioner Strategies for Addressing High Risk Issues in Project Delivery

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- NCHRP Web Document, Issue: 183 - Guidance for Managing NEPA-Related and Other Risks in Project Delivery, Volume 1: Guide for Managing NEPA-Related and Other Risks in Project Delivery.
- NCHRP Web Document, Issue: 173 - Cast-in-Place Concrete Connections for Precast Deck Systems.
- Recent NCHRP Legal Research Digests
 - NCHRP Legal Research Digest, Issue 74 (2017) Liability of State Departments of Transportation for Design Errors.
 - NCHRP Legal Research Digest, Issue 68 (2015) - Liability of Design-Builders for Design, Construction, and Acquisition Claims.
 - NCHRP Legal Research Digest, Issue 67 (2015) - Permissible Changes in Scope of Work for Construction Projects.
 - NCHRP Legal Research Digest, Issue: 61 - Legal Aspects for Performance-Based Specifications for Highway Construction and Maintenance Contracts.
 - NCHRP Legal Research Digest, Issue: 59 - Enforceability of Local Hire Preference Programs.
 - NCHRP Legal Research Digest, Issue: 58 - Legal Issues Surrounding the Use of Digital Intellectual Property on Design and Construction Projects.
- Recent NCHRP Research Results Digests
 - NCHRP Research Results Digest, Issue 397 (2015) - Independent Cost Estimates for Design and Construction of Transit Facilities in Rural and Small Urban Areas.
 - NCHRP Research Results Digest, Issue: 391 - Modulus-Based Construction Specification for Compaction of Earthwork and Unbound Aggregate.
 - NCHRP Research Results Digest, Issue: 381 - Guidebook for Construction Management Practices for Rural Projects.
 - NCHRP Research Results Digest, Issue: 371 - Quality-Related Pay Adjustment Factors for Pavements.
 - NCHRP Research Results Digest, Issue: 363 - Hydroacoustic Impacts on Fish from Pile Installation.
 - NCHRP Research Results Digest, Issue: 355 - Summary of Cast-in-Place Concrete Connections for Precast Deck Systems.
- Recent NCHRP-IDEA Program
 - NCHRP-IDEA Program Project Final Report, Issue 173 (2016) Graphene Nanoplatelet (GNP) Reinforced Asphalt Mixtures: A Novel Multifunctional Pavement Material.
 - NCHRP-IDEA Program Project Final Report - Extraction of Layer Properties from Intelligent Compaction Data.
 - NCHRP-IDEA Program Project Final Report - Rapid, Self-Contained In-Situ Permeameter for Field QA/QC of Pavement Base/Subbase Materials.
 - NCHRP IDEA Program: Products with an Impact or Potential Impact on Current Highway Practice: Notable Examples.
- Recent ACRP Reports
 - ACRP Report, Issue: 120 - Airport Capital Improvements: A Business Planning and Decision-Making Approach.
 - ACRP Report, Issue: 105 - Guidelines for Ensuring Longevity in Airport Sound Insulation Programs.
 - ACRP Report, Issue: 102 - Guidance for Estimating Airport Construction Emissions.
 - ACRP Report, Issue: 42 - Sustainable Airport Construction Practices.
- Other Recent Reports
 - Selected Studies in Transportation Law, Volume 1: Construction Contract Law - 2014 Supplement.
 - Committee for Intelligent Construction Systems and Technology: Program Review Letter Report: November 26, 2013.
 - Committee for Intelligent Construction Systems and Technology: Program Review Letter Report: May 13, 2013.

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- Transportation Research Circular, Issue: E-C173 - Glossary of Transportation Construction Quality Assurance Terms.
- Transportation Research E-Circular, Issue: E-C154 - Development of Warranty Programs for Hot-Mix Asphalt Pavements.
- TCRP Legal Research Digest, Issue: 39 - Competition Requirements of the Design/Build, Construction Manager at Risk, and Public-Private Partnership Contracts—Seven Case Studies.
- ACRP Synthesis of Airport Practice, Issue 70 (2016) - Building Information Modeling for Airports.
- National Cooperative Highway Research Program Report, Issue: 704 - A Performance-Related Specification for Hot-Mixed Asphalt.
- Current research
 - ACRP 09-07 - Airport Maintenance Roles in Planning, Design, Construction, Commissioning, and Activation
 - ACRP 11-02/Task 29 - RFQ: ACRP Research Roadmap on Select Airport Topics.
 - NCHRP 10-91 - Guidebook for Selecting and Implementing Sustainable Highway Construction Practices
 - NCHRP 12-102 - Recommended AASHTO Guide Specification for ABC Design and Construction
 - NCHRP 12-89 - Recommended AASHTO LRFD Tunnel Design and Construction Specifications
 - NCHRP 15-51 - Pre-construction Services Cost Estimating Guidebook
 - NCHRP 20-06/Topic 20-02 - Liability of Design Builders for Design, Construction and Acquisition Claims
 - NCHRP 20-06/Topic 20-03 - Permissible Arranges in Scope of Work for Construction Contracts
 - NCHRP 25-25/Task 93 - Long-Term Construction and Maintenance Cost Comparison for Road Stream Crossing Hydraulic Design vs. Bankfull Width Design
 - NCHRP Synthesis 20-05/Topic 46-06 - Use of Mobile IT Devices in the Field for Design, Construction and Asset Management
 - SHRP 2 R02 - Geotechnical Solutions for Soil Improvement, Rapid Embankment Construction, and Stabilization of the Pavement Working Platform
- Upcoming projects
 - ACRP 08-02 - Incorporating Collaborative Partnering into Traditional Airport Construction Projects
 - ACRP 02-68 - Addressing Local Stormwater Utilities and MS4s for Airports
 - NCHRP 08-104 - A Guidebook for Post-award Contract Administration for Highway Projects Delivered Using Alternative Contracting Methods
 - NCHRP 08-107 - A Guidebook for Emergency Contracting Procedures for Administration of a Regional Emergency
 - NCHRP 10-90 - Guidance for Complying with EPA Effluent Limitation Guidelines for Construction Runoff
 - NCHRP 10-98 - Development of Standards and Quality Assurance Procedures for the Collection of Network Level Macro-Texture Measures
 - NCHRP 12-106 - Development of Guidelines for Performance-Based Seismic Design
 - NCHRP 12-109 - Design, Fabrication, and Construction of Long-Span Precast Pretensioned Girders Made with 0.7? Diameter Strands
 - NCHRP 14-37 - Guide Construction Specifications for Pavement Preservation Treatments: Chip Seal and Microsurfacing
 - NCHRP 14-38 - Triggers and Timings for the Placement of Pavement Preservation Treatments for Asphalt Pavements
 - NCHRP 15-62 - Access Management and Design Guidelines for Truck Routes
 - NCHRP 15-63 - Design Options to Reduce Turning Motor Vehicle Conflicts with Bicyclists and Pedestrians at Intersections
 - NCHRP 20-06/Topic 22-02 - Liability of State Departments of Transportation for Design Errors
 - NCHRP 20-06/Topic 22-03 - Primer on Patentability and Use of Ideas Developed by Contractors Performing Work for State and Federal Transportation and Local Planning Agencies

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- NCHRP 20-07/Task 354 - Work Zone Speed Limits and Crash Data Practices
- NCHRP 20-07/Task 358 - Reducing Risks to Worker Safety in Work Zones Due to Distracted Drivers
- NCHRP 20-07/Task 370 - Development of a Strategic Plan for the Subcommittee on Traffic Engineering (SCOTE)
- NCHRP 20-07/Task 374 - Guidelines for Selecting Sign Sheeting Materials for AASHTO M268
- NCHRP 20-07/Task 376 - Transportation Agency ITS Infrastructure Decisions Considering V2I Deployment
- NCHRP 20-102(06) - Road Markings for Machine Vision
- NCHRP 20-107 - Construction Project Staffing Strategies for Effective Program Oversight
- NCHRP 21-11 - Improving Processes for Characterizing Corrosion Potential of Soils and Fill Materials
- NCHRP 25-49 - Development of a Highway Construction Noise Prediction Model
- SHRP 2 R05(A) - Precast Concrete Modular Pavement Technology Training Materials

Panel Member nominations accepted (<http://www.trb.org/TCRP/CRPInfoPanelMembers.aspx>)

Second Strategic Highway Research Program (SHRP 2)

- Reports
 - SHRP 2 Report, Issue Report: S2-R09-RW-1 - Developing the "Guide for the Process of Managing Risk on Rapid Renewal Projects".
 - SHRP 2 Report, Issue Report: S2-R01A-RW-1 - Technologies to Support Storage, Retrieval, and Use of 3-D Utility Location Data.
 - SHRP 2 Report, Issue: S2-R01C-RW-1 - Innovations to Locate Stacked or Deep Utilities.
 - SHRP 2 Report - Pilot Testing of the TCAPP Decision Guide and Related Capacity Products: Hoopstick Creek, South Carolina.
 - SHRP 2 Report, Issue: S2-R10-RW-2 - Guide to Project Management Strategies for Complex Projects.
 - SHRP 2 Report - Identification of Utility Conflicts and Solutions: Pilot Implementation of the SHRP 2 R15B Products at the Maryland State Highway Administration.
 - SHRP 2 Report, Issue: S2-R23-RW-2 - Guide to Using the Existing Pavement in Place and Achieving Long Life.
 - SHRP 2 Report, Issue: S2-R03-RR-2 - Guide to Identifying and Reducing Workforce Fatigue in Rapid Renewal Projects.
 - SHRP 2 Report, Issue: S2-R03-RW-1 - Identifying and Reducing Workforce Fatigue in Rapid Renewal Projects.
 - SHRP 2 Report - Project Management Strategies for Complex Projects: Case Study Report.
 - SHRP 2 Report, Issue: S2-R02-RW-2 - Development of the Geoconstruction Information and Technology Selection Guidance System.
 - SHRP 2 Report, Issue: S2-R02-RW-1 - Geotechnical Solutions for Soil Improvement, Rapid Embankment Construction, and Stabilization of the Pavement Working Platform.
 - SHRP 2 Report, Issue: S2-R07-RR-1 - Performance Specifications for Rapid Highway Renewal.
 - SHRP 2 Report, Issue: S2-R07-RR-2 - Strategies for Implementing Performance Specifications: Guide for Executives and Project Managers.
 - SHRP 2 Report, Issue: S2-R07-RR-3 - Framework for Performance Specifications: Guide for Specification Writers.
 - SHRP 2 Report, Issue: S2-R06G-RR-1 - Mapping Voids, Debonding, Delaminations, Moisture, and Other Defects Behind or Within Tunnel Linings.
 - SHRP 2 Report, Issue: S2-R23-RR-1 - Using Existing Pavement In Place and Achieving Long Life.
 - SHRP 2 Report, Issue: S2-R11-RW-2 - WISE Software Users Guide.
 - SHRP 2 Report, Issue: S2-R09-RW-02 - Guide for the Process of Managing Risk on Rapid Renewal Projects.
 - SHRP 2 Report, Issue: S2-R10-RW-1 - Project Management Strategies for Complex Projects.
 - SHRP 2 Report, Issue: S2-R04-RR-1 - Innovative Bridge Designs for Rapid Renewal.



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- SHRP 2 Report - Utility Locating Technology Development Using Multisensor Platforms.
- SHRP 2 Report, Issue: S2-R06D-RW-4 - Nondestructive Testing to Identify Delaminations Between HMA Layers, Volume 4.
- SHRP 2 Report, Issue: S2-R06D-RW-5 - Nondestructive Testing to Identify Delaminations Between HMA Layers, Volume 5.
- SHRP 2 Report, Volume 3, Issue: S2-R06D-RW-3 - Nondestructive Testing to Identify Delaminations Between HMA Layers, Volume 3.
- SHRP 2 Report, Issue: S2-R06D-RW-2 - Nondestructive Testing to Identify Delaminations Between HMA Layers, Volume 2.
- SHRP 2 Report - Fatigue Risk Management Guide for Rapid Renewal Highway Construction Projects.
- SHRP 2 Report - Identifying and Reducing Worker, Inspector, and Manager Fatigue in Rapid Renewal Environments.
- SHRP 2 Report, Issue: S2-R21-RR-3 - Composite Pavement Systems Volume 2: PCC/PCC Composite Pavements.
- SHRP 2 Report, Issue: S2-R21-RR-2 - Composite Pavement Systems Volume 1: HMA/PCC Composite Pavements.
- SHRP 2 Report, Issue: S2-R06D-RR-1 - Nondestructive Testing to Identify Delaminations between HMA Layers, Volume 1.
- SHRP 2 Report, Issue: S2-R06E-RR-1 - Real-Time Smoothness Measurements on Portland Cement Concrete Pavements During Construction.
- SHRP 2 Report, Issue: S2-R06F-RW-1 - Assessment of Continuous Pavement Deflection Measuring Technologies.
- SHRP 2 Report, Issue: S2-R06C-RR-1 - Using Infrared and High-Speed Ground-Penetrating Radar for Uniformity Measurements on New HMA Layers.
- SHRP 2 Report, Issue: S2-R04-RR-2 - Innovative Bridge Designs for Rapid Renewal: ABC Toolkit.
- SHRP 2 Report, Issue: S2-R05-RR-1 - Precast Concrete Pavement Technology.
- SHRP 2 Report - Geotechnical Solutions for Soil Improvement, Rapid Embankment Construction, and Stabilization of the Pavement Working Platform: Final Phase 2 Summary Report.
- SHRP 2 Report - Geotechnical Solutions for Soil Improvement, Rapid Embankment Construction, and Stabilization of the Pavement Working Platform: Web-Based Information System Development Report.
- SHRP 2 Report, Issue: S2-R01-RW-2 - Development of the Selection Assistant for Utility Locating Technologies.
- Project Briefs
 - SHRP 2 Project Brief - Strategic Approaches at the Corridor and Network Levels to Minimize Disruption from the Renewal Process.
 - SHRP 2 Project Brief - Geotech Tools: Geoconstruction Information and Technology Selection Guidance for Geotechnical, Structural, and Pavement Engineers.
 - SHRP 2 Project Brief - A Toolkit for Accelerated Bridge Construction.

Other Relevant Reports

- Livable Cities of the Future: Proceedings of a Symposium Honoring the Legacy of George Bugliarello (2014, *National Academy of Engineering*)