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  - [IDEA Report 228](http://www.trb.org/) - A Retroreflective Road Lane Marking Tape 1,000X Brighter than Existing Technology
  - [IDEA Report 220](http://www.trb.org/) - Bridge Deck Sealer Monitor: Thermal Sealcheck
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  - [Report 982](http://www.trb.org/) - Relationships Between the Fatigue Properties of Asphalt Binders and the Fatigue Performance of Asphalt Mixtures
  - [Report 973](http://www.trb.org/) - Long-Term Aging of Asphalt Mixtures for Performance Testing and Prediction: Phase III Results
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  - [Report 965](http://www.trb.org/) - Mitigation of Weldment Cracking in Steel Highway Structures Due to the Galvanizing Process
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  - [Report 958](http://www.trb.org/) - Improved Test Methods and Practices for Characterizing Steel Corrosion Potential of Earthen Materials
  - [Synthesis 574](http://www.trb.org/) - Temporary Pavement Markings Placement and Removal Practices in Work Zones
  - [Synthesis 569](http://www.trb.org/) - Practice and Performance of Cold In-Place Recycling and Cold Central Plant Recycling
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  - [Synthesis 565](http://www.trb.org/) - Maintenance and Surface Preparation Activities Prior to Pavement Preservation Treatments
  - [Web-Only Document 305](http://www.trb.org/) - Validation of a Performance-Based Mix Design Method for Porous Friction Courses

- [Transportation Research E-Circulars](http://www.trb.org/)
  - [E-Circular 274](http://www.trb.org/) - Quality Assurance: Past, Present, and Future
Current & Upcoming Projects

• **Current Projects**
  - ACRP 02-91 - Development of PFAS Source Differentiation Guidelines for Airports
  - ACRP 02-93 - Guidebook for PFAS Management at Airports
  - ACRP 04-28 - Developing Alternative Aircraft Arresting Systems
  - NCHRP 01-61 - Evaluation of Bonded Concrete Overlays on Asphalt Pavements
  - NCHRP 09-63 - A Calibrated and Validated National Performance-Related Specification for Emulsified Asphalt Binder
  - NCHRP 09-64 - Developing Laboratory Methods and Specifications to Test Tack Coat Materials
  - NCHRP 09-65 - Capturing Durability of High Recycled Binder Ratio (RBR) Asphalt Mixtures
  - NCHRP 09-66 - Performance Properties of Laboratory Produced Recycled Plastic Modified (RPM) Asphalt Binders and Mixtures
  - NCHRP 10-103 - Improving Guidance of AASHTO R 80/ASTM C 1778 for Alkali-Silica Reactivity (ASR) Potential and Mitigation
  - NCHRP 10-104 - Evaluating Use of Unconventional Fly Ash Sources in Highway Concrete
  - NCHRP 10-107 - Guide for Implementing Performance Specifications
  - NCHRP 12-117 - Guidelines for Corrosion Protection of Steel Bridges Using Duplex Coating Systems
  - NCHRP 12-120 - Stainless Steel Strands for Prestressed Concrete Bridge Elements
  - NCHRP 12-121 - Guidelines for the Design of Prestressed Concrete Bridge Girder Using FRP Auxiliary Reinforcement
  - NCHRP 18-18 - Design and Construction of Deck Bulb Tee Girder Bridges with UHPC
  - NCHRP 18-19 - Rating Concrete Water Permeability Based on Resistivity Measurements
  - NCHRP 18-20 - AASHTO LRFD Design, Installation, and Standard Practice of Testing for Cured In-Place Pipe Liners
  - NCHRP 20-07/Task 374 - Guidelines for Selecting Sign Sheeting Materials for AASHTO M268
  - NCHRP 22-40 - Update to AASHTO M 180-18 and Associated Highway Guardrail Specifications
  - NCHRP 20-44(19) - Implementation of Proposed AASHTO Standards for Asphalt Binders and Mixtures
  - NCHRP 20-44(24) - Pilot Test of Proposed Standard Practice for Recycling Agents in Asphalt Mixtures Incorporating RAP and RAS
  - NCHRP 20-44(26) - Implementing Guide Specifications for the Construction of Chip Seals, Micro Surfacing, and Fog Seals
  - NCHRP 25-57 - Breaking Barriers: Alternative Approaches to Avoiding and Reducing Highway Traffic Noise Impacts
  - NCHRP IDEA 20-30/IDEA 240 - Stainless Steel Coated Rebar for Chloride Resistant Concrete Highways and Bridges
  - NCHRP IDEA 20-30/IDEA 235 - High Bond Steel Fibers for Ultra High Performance Concrete (UHPC)
  - NCHRP IDEA 20-30/IDEA 233 - Development of an Innovative Bio-Mediated Self-Healing Concrete Technology
  - NCHRP IDEA 20-30/IDEA 229 - Lab Dielectric Measurement System for Asphalt Mixture Bulk Specific Gravity Determination
  - NCHRP IDEA 20-30/IDEA 219 - A Novel Durable, Healable and Conveniently Removable Pavement Marking Material Suitable for Both Permanent and Temporary Markings Uses
  - NCHRP IDEA 20-30/IDEA 218 - Development of a Fast and Cost Effective Asphalt Mixture Fatigue Test System
  - NCHRP IDEA 20-30/IDEA 210 - Material Characteristics of Cu-Based Superelastic Alloys for Applications in Bridge Columns to Improve Seismic Performance
  - NCHRP Synthesis 20-05/Topic 52-17 - Use of Recycling Agents in Asphalt Concrete Mixtures
  - NCHRP Synthesis 20-05/Topic 53-07 - Curing Practices for Concrete Pavements
  - NCHRP Synthesis 20-05/Topic 53-10 - Identifying the Current Practice of Contrast Pavement Markings by Departments of Transportation
  - NCHRP Synthesis 20-05/Topic 53-13 - Practices for Steel Bridge Fabrication and Erection Tolerances
  - TFRS 01 - Quality Assurance (QA) Aspects of Performance Related Specifications (PRS)

• **Upcoming Projects**
  - NCHRP 09-67 - New Materials & Technology Deployment in Asphalt Pavement Structural Design
  - NCHRP 09-68 - Recycled Asphalt Materials: Binder Availability and Its Impact on Mix Performance
  - NCHRP 09-69 - Verifying Quantities of Materials Used in Asphalt Mixtures at Production Facilities
  - NCHRP 10-114 - Developing Performance and Safety Specifications for Rejuvenating Seals
NCHRP 10-116 - Variability in Pavement Materials and Construction
NCHRP 10-117 - GFRP Barrier Testing Evaluation and Repair Strategies
NCHRP 10-124 - Development of Field Test to Determine Actual Percent Embedment of Chip Seal Aggregate
NCHRP 22-56 - Development of Non-proprietary Prefabricated Solutions for Concrete Barrier Systems for Accelerated Bridge Construction

Reports from the National Academies Press on Materials
- Materials Science and Engineering in a Post-Pandemic World: A DoD Perspective
- Convergent Manufacturing: A Future of Additive, Subtractive, and Transformative Manufacturing
- Exploiting Advanced Manufacturing Capabilities: Topology Optimization in Design
- Frontiers in Memristive Materials for Neuromorphic Processing Applications
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