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## **RESEARCH GRANTS**

- Pavement Drainage and Pavement-Shoulder Joint Evaluation and Rehabilitation, Indiana Department of Transportation/ Federal Hwy. Administration (1989-1992)
- Embankment Widening and Grade Raising on Soft Foundation Soils - Part II, Indiana Department of Transportation/ Federal Hwy. Administration (1990-1993)
- Behavior of Geotextile-Reinforced Soil Under Cyclic Loading, Swiss Federal Highway Administration (1993-1995)
- Mechanical Interference in Particulate Media, National Science Foundation (1994-1997)
- Study of Side Ditch Liners for Highway Applications - Phase I, Indiana Department of Transportation/ Federal Hwy. Administration (1995-1997)
- Embankment Widening: Design Guidelines and Construction Procedures, Indiana Department of Transportation/ Federal Hwy. Administration (1996-1998)
- Performance of a Modular Block Retaining Wall, Indiana Department of Transportation/ Federal Hwy. Administration (JTRP) (1997-1999)
- Low-cost Reinforced Soil Walls for Highways, Indiana Department of Transportation/ Federal Hwy. Administration (JTRP) (1998-2001)
- Wet Subgrade Improvement, Indiana DOT/FHWA (2001-2004)
- Filter Performance and Design for Highway Drains, Indiana DOT/FHWA (2002-2004)
- Mechanically Stabilized Earth Wall Abutments for Bridge Support, Indiana DOT/FHWA (2004-2006)
- Chemical and Biochemical Clogging of Geotextile Filters, Indiana DOT/FHWA (2007-2008)