



TTAP Video Catalog
Phone: 1-800-252-ROAD (inside TN)
(865) 974-5255 (outside TN)
Fax: (865) 974-3889
Email: ttap@utk.edu

Detecting Flawed & Non-Standard Concrete

American Concrete Inst./Portland Cement 1988 28 minutes Video ID # 46
Presents seven different tests for use in quality control of concrete: (1) Test C1064-Temperature of freshly mixed concrete; (2) C172-Sampling fresh concrete; (3) C143-Slump of portland cement concrete; (4) C138-Unit weight, yield, and air content of concrete; (5) C173-Air content of freshly mixed concrete by the pressure method; (6) Air

Dust Control 1989

Dow Chemical Co. 1989 16 minutes Video ID # 45
Defines dust, describes the problem which it can create on unpaved roads, and describes ways to reduce these problems. Shows the advantages of using "Liquidow" in controlling dust.

Evaluation Procedures for Deicing Chemicals

NACE 1993 11 minutes Video ID # 67
A brief look at 12 tests used to evaluate deicing chemicals. Among these tests include: ice melting capacity, ice penetration, ice undercutting, corrosive effect on metal, scaling effects on concrete surfaces, and frictional characteristics of deicers.

Forest Roads and the Environment

FHWA/USDA Forest Service 18 minutes Video ID # 284
Demonstrates the importance of maintaining safe forest roads. Also explains how a poorly maintained road can prematurely intercept, divert and concentrate storm water affecting the surrounding ecosystem.

Guardrail Installation (Module 14)

FL T2 Center Van Program 46 minutes Video ID # 219
This module describes the installation of W-Beam guardrail with various end treatments.

Guardrail Installation and Repair

FHWA 1989 20 minutes Video ID # 51
Describes the evolution of guardrail standards, how to eliminate guardrails through slope flattening, elements of a W-Beam guardrail, proper installation of guardrails, treatment of guardrail ends, and guardrail repair.

Guardrail Terminal Designs

Syro Steel Company 8 minutes Video ID # 325
This shows two alternative guardrail end terminal designs that are produced by Syro Steel Company. The effectiveness of these two guardrail terminals is shown. The first one is called the C-A-T (Crash-cushion Attenuating Terminal). The other one is the ET-2000.



TTAP Video Catalog
Phone: 1-800-252-ROAD (inside TN)
(865) 974-5255 (outside TN)
Fax: (865) 974-3889
Email: ttap@utk.edu

Here's How Hot Mix Plant Works

Video Univ. Productions 55 minutes Video ID # 308

Discusses and illustrates the entire process within a hot mix plant along with common plant locations and types.

Installation of Geotextile on Gravel Surfaced Roads

OK T2 Center 1989 43 minutes Video ID # 50

Demonstrates the use of geotextiles on gravel roads. Discusses woven and non-woven fabric, different types of gravel to be used, the proper method for dumping rock on a soft road bed, how the fabric should be applied to hillsides with rock outcroppings.

Low Volume Roads Series - Setting Maintenance Priorities for Low Volume

IRF/FHWA 30 minutes Video ID # 296

Discusses the unique process of setting maintenance priorities for low volume roads and managing maintenance strategies. Includes a discussion of goals for maintenance procedures including keeping roads open and safe year round, reducing the rate of deterioration, increasing life of roads and reducing vehicle operating costs by maintaining.

Maintaining Asphalt Roads: Blade Patching

NM DOT 1993 12 minutes Video ID # 53

A quick, general overview of the blade patching process that can correct rutted roads, large alligator cracks and potholes too large for hand patching.

Maintaining Granular Surface Roads

Iowa Highway Research Board 1985 19 minutes Video ID # 54

Presentation designed to aid the motor grader operator in maintaining gravel roads.

Maintaining Gravel Roads in Arkansas

Arkansas T2 1989 29 minutes Video ID # 52

Intended for road foremen and grader operators. The video covers motor grader operation, drainage requirements, crown and super elevated compaction, and other aspects pertaining to maintaining gravel roads.

Maintaining the Ditch and Surface Cross Drains

FHWA/USDA Forest Service 16 minutes Video ID # 288

Provides comprehensive instructions for correctly constructing and maintaining ditches, culverts and various surface cross drains. The video highlights heeling and pulling a ditch, rolling drain dips, interceptor dips, earthen water bars and open top drainage devices.



TTAP Video Catalog
Phone: 1-800-252-ROAD (inside TN)
(865) 974-5255 (outside TN)
Fax: (865) 974-3889
Email: ttap@utk.edu

Plows of the Future

SHRP 1983 8 minutes Video ID # 66

Illustrates new plows that prevent snow from going on drivers' window and to unwanted areas and passing cars. This video particularly focuses on the design of a snow-scoop that can be retro-fitted to existing plows, which produces better efficiency and control.

Problems with Gravel Roads

FHWA 1995 55 minutes Video ID # 68

Gives a general overview of the problems associated with gravel roads. A good tape for those who want to know how gravel roads fail. Covers materials and environment, problems, grader equipment and techniques.

Reading Beyond the Traveled Way

FHWA/USDA Forest Service 17 minutes Video ID # 286

Demonstrates the importance of inspecting both the roadway and roadside when performing site investigations. Identifies gullies, ditches, culverts, cracks, and slumps as problem areas and offers repair and upkeep strategies.

Reading the Traveled Way

FHWA/USDA Forest Service 16 minutes Video ID # 285

Stresses the value of adequate mapping, planned maintenance and upkeep of forest roads. Also discusses performing site evaluations to identify common problems along the traveled way including examples of long and short term solutions.

Replenishing Earth and Gravel Shoulders

IRF 1985 19 minutes Video ID # 55

Nine maintenance work steps to restore the unpaved shoulder by adding new material are shown in this module. Proper procedures are fully presented for preparing the existing shoulder surface before adding additional material, placing and spreading additional material, and compacting material. Equipment and proper use are discussed.

Roadway Design: Balancing Safety, Environment, and Cost

MN Local Road Research Board 1995 13 minutes Video ID # 69

Provides an overview of three important factors to be considered when constructing or building a roadway: safety, environmental protection, and cost--both initial and long term.

Rural Roads, A New Approach

Montana State Univ. 1984 25 minutes Video ID # 56

Discusses current technology which can be utilized in upgrading secondary roads.



TTAP Video Catalog
Phone: 1-800-252-ROAD (inside TN)
(865) 974-5255 (outside TN)
Fax: (865) 974-3889
Email: ttap@utk.edu

Safety Restoration Snow Removal Guidelines

FHWA / US DOT 1991 26 minutes Video ID # 57
Safety priorities, policies, and procedures for post-snowstorm cleanup. A review of snow removal guidelines pertaining to restoration of the roadway for use by the motoring public. Includes concerns with roadside safety device effectiveness.

Shoulder and Roadside Maintenance (Module 7)

FL T2 Center Van Program 38 minutes Video ID # 224
This module gives procedures for repairing earthen shoulders using a motor grader and maintaining roadside ditches using a motor grader or hydraulic excavator.

Smoothing and Reshaping the Traveled Way

FHWA/USDA Forest Service 18 minutes Video ID # 287
Covers detailed step by step processes for both smoothing and reshaping a road. The video emphasizes crowned roads, inslope roads, outsloped roads and transition sections.

Snow & Ice Control

SHRP 1993 13 minutes Video ID # 65
Presents economic, environmental and safety benefits of employing advances in snow and ice control techniques. Summarizes localized weather forecasting programs, anti-icing techniques, utilization of snow fences, and plows of the future.

Snow Plow & Spreader Operation

Nebraska Dept. of Roads 53 minutes Video ID # 58
Operation and maintenance of snow plow and spreader on a dump truck includes hookup of plow and spreader, daily checks, servicing, and plowing and spreading techniques.

Staying Ahead of the Storm

SHRP 1992 21 minutes Video ID # 64
Discusses the use of the Road Weather Information System (RWIS) to provide a variety of road condition and weather information giving highway engineers an up-to-the-minute decision-making tool.

Tennessee Crash Tests

72 minutes Video ID # 327
This video is a composite of Tennessee Crash Tests 7199 – 1 through 6. The crashes involve slotted rails, transition rails, and guardrail end treatments.



TTAP Video Catalog
Phone: 1-800-252-ROAD (inside TN)
(865) 974-5255 (outside TN)
Fax: (865) 974-3889
Email: ttap@utk.edu

The New Generation of Snow and Ice Control

FHWA 1998 7 minutes Video ID # 225

State of the art road weather information systems (RWIS) and anti-icing techniques are helping a new generation of snow and ice control managers prevent dangerous roadway conditions before they develop. Includes a 14 page booklet with the video.

The Safer Roadside

Wash DOT 1988 17 minutes Video ID # 59

Removing fixed roadside barriers is one way of making highways safer for traffic. Utility poles along highway rights-of-way need to be removed. Highway departments along with the utilities have established a plan for doing this.

The Snowfighters

The Salt Institute 1982 27 minutes Video ID # 226

The story of the people and equipment that keep us moving through inclement weather. From plan to action this video takes us through the decision making process involved in fighting to keep roadways clear of snow and ice.

Traffic Barriers: Overview, W-Beams, Terminals

FHWA / US DOT 1990 46 minutes Video ID # 60

Explains general procedures for designating and maintaining the roadside barriers, median barrier and bridge rail barriers. It describes the different parts of barriers and different kinds of barriers.

Traffic Safety Series: Identifying Highway Safety Problems &

IRF/FHWA 60 minutes Video ID # 294

Focuses on identifying highway safety problems and solutions, evaluating and selecting the best safety alternatives and evaluating the results of the chosen safety program.

Understanding Superpave™ Mix Design

FHWA 1996 13 minutes Video ID # 72

A description of the performance based Superpave™ mix design system. Provides an overview of specifications, mix design and new equipment used with Superpave™.

Unsurfaced Road Inspection

USACRREL 1990 8 minutes Video ID # 62

Explains the procedure for measuring the seven different road distresses. Aids in the set-up of a road management program.

