

# Michigan LTAP Video Library

## ID Description

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### 1 Bituminous Concrete Paving

WA-DOT 1984 (45min.)

Three-part training tape for construction inspectors: (1) preliminary checks and equipment; (2) surface preparation and tack coats; (3) delivery of hot mix, paving, compaction, and final project acceptance.

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### 2 Bridge Railings and Transitions

FHWA 1987 (8min.)

The importance of using only bridge railings and crash railings that have been tested.

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### 3 Guidelines for Spring Highway Use Restrictions

WA-DOT 1986 (26min.)

Basic explanation of frost heave. A technical method for estimating when, and how much, load restrictions should be applied due to spring thaws.

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### 4 Loader Operation

WA-DOT 1990 (36min.)

The tape should help new operators understand the important features of an equipment management preventive maintenance program, the capabilities of the loader, operations of the equipment, and the need for daily maintenance.

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### 5 Motor Grader Operation

WA-DOT 1990 (54min.)

A three-part series to start new operators learning the operation of any type of motor grader. Topics include: grading unpaved roads, spreading material, laying asphalt, pulling ditches, and backsloping and grading shoulders.

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### 6 Nighttime Work Zone Traffic Control

American Traffic And Safety Services Association 1990 (18min.)

The importance of designing and maintaining work zone traffic control areas for night conditions. The tape stresses that the Manual on Uniform Traffic Control Devices standards are for 'average conditions,' whereas nighttime driving is not 'average.'

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### 7 Safety Features for Local Roads & Streets

FHWA 1986 (115min.)

Lots of crashes in this series of 11 videos of research and recommendations on wet weather accidents, sideslopes and ditch tests, roadside culverts and cross road incline tests, small sign supports, traffic barriers on slopes, etc.

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### 8 Snow Plowing and Sanding

OR-LTAP 1990 (20min.)

Step-by-step basics for beginners, with emphasis on safety.

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### 9 Snow Plowing and Spreader Operation

NE-DOT 1990 (48min.)

Three parts: (1) equipment and hookup, (2) daily checks, (3) plowing and spreading techniques.

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### 10 Snow Removal

CO-DOT 1990 (18min.)

Preparation of equipment and snow removal procedures, with emphasis on safety while operating a plow.

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### 11 Snow Removal on Iowa's Secondary Roads

IA-DOT 1990 (26min.)

Principles and practical techniques for any area with snow removal. Checklists include: equipment and material check in early fall, developing police and other coordination, defining procedures and priorities.

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### 12 Ten-Wheel Dump Trucks

DE-DOT 1990 (22min.)

Start-up operation, and shut-down procedures for ten-wheel dump trucks. Transmission, gearing and shifting instructions. Emphasis on proper shut-down procedures.

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### 13 The Hook-up of the Sander

MN-DOT 1990 (7min.)

Step-by-step hook-up procedure.

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### 14 The Hook-up of the Snow Plow

MN-DOT 1990 (8min.)

Step-by-step pre-trip inspection and hook-up procedure.

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### 15 Common Maintenance Problems and Causes

International Road Federation 1989 (21min.)

Identifies common maintenance problems for: asphalt pavement, Portland cement concrete pavement, earth and gravel roads, road shoulders, drainage facilities, bridges, and roadside areas.

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### 16 Pothole Repair in Asphalt Concrete Pavement

International Road Federation 1988 (13min.)

A detailed nine-step procedure using proper materials, tools and equipment. The tape shows and explains how to do each step efficiently, with long-lasting repair results.

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### 17 Pothole Repair in Surface Treatment Pavement

International Road Federation 1988 (13min.)

Demonstration and explanation of the correct procedures for use of granular material for filling potholes.

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### 18 Crack Repair on Asphalt Pavement

International Road Federation 1988 (12min.)

Repair procedures for linear and alligator cracks from 3 to 12 mm wide.

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### 19 Repair of Depressions, Rutting and Corrugations

International Road Federation 1988 (14min.)

This tape, designed primarily for the maintenance supervisor and the work crew, gives the procedures to level and overlay depressions, ruts and corrugations by using a motor grader. It covers the materials and equipment needed.

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### 20 Base and Sub-base Repair

International Road Federation 1988 (16min.)

A procedure for repair of the base and sub-base that will save money and insure longer-lasting repairs. It covers the materials and equipment needed.

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### 21 Single and Multiple Surface Treatments

International Road Federation 1988 (14min.)

The WHAT, the WHY, and the HOW of successful surface treatments on unpaved and paved roads.

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### 22 Patching Unpaved Roads

International Road Federation 1988 (11min.)

A manual method of maintenance for repairing surface defects such as potholes, ruts, gullies and soft spots on unpaved roads.

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### 23 Smoothing and Reshaping of Earth and Gravel Roads

International Road Federation 1988 (20min.)

Two-part video on smoothing and reshaping. Each part gives equipment requirements and an overview of work steps.

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### 24 Regraveling

International Road Federation 1988 (18min.)

Necessary repairs of the road and drainage system before regraveling. Equipment, materials and procedures for regraveling.

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### 25 Reshaping Earth and Gravel Shoulders

International Road Federation 1988 (15min.)

Proper procedures for reshaping earth and gravel shoulders (without adding material) to correct shoulder drop-off, rutting, buildup of material, and excessive weed growth to maintain a safe shoulder.

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### 26 Replenishing Earth and Gravel Shoulders

International Road Federation 1988 (19min.)

Nine maintenance work steps to restore the unpaved shoulder by adding new material.

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### 27 Mechanical Cleaning of Unlined Ditches

International Road Federation 1988 (20min.)

Mechanical cleaning procedures with a motor grader and an excavator.

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### 28 **Cleaning of Lined Ditches, Culverts and Catch Basins**

International Road Federation 1988 (16min.)

Proper procedures for manual cleaning. How to schedule the cleaning work.

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### 29 **Cleaning and Clearing of Bridges**

International Road Federation 1988 (13min.)

The basic what, why, and how of cleaning bridges and their components. Covered are drain holes, drain spouts, expansion joints, bearing assemblies, pier caps and abutments, removing debris, and waterway obstructions.

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### 30 **Concrete Bridge Deck Repair**

International Road Federation 1988 (18min.)

Procedures for permanent repair of partial and full-depth bridge deck holes with cement concrete.

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### 31 **Operator Daily Maintenance of Motor Graders**

International Road Federation 1989 (21min.)

Proper daily maintenance procedures, consisting of: pre-start check, warm-up check, daily operating check, shut-down check.

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### 32 **Operator Daily Maintenance of Front-End Loaders**

International Road Federation 1989 (19min.)

Daily preventative maintenance procedures which will provide efficient performance over a longer period and will extend the service life of the front-end loader.

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### 33 **Operator Daily Maintenance of Crawler Tractors**

International Road Federation 1989 (21min.)

The general and proper procedures for operator daily maintenance on crawler tractors, and an explanation of why these procedures are necessary.

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### 34 **Operator Daily Maintenance of Rollers**

International Road Federation 1989 (22min.)

All required daily maintenance activities on rollers, from pre-start check to shut-down activities.

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### 35 **Operator Daily Maintenance of Asphalt Distributors**

International Road Federation 1989 (17min.)

The four preventive maintenance checks for distributors: pre-start, warm-up, operating, and shutdown. Also cleanup procedures.

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### 36 **Operator Daily Maintenance of Dump Trucks**

International Road Federation 1989 (19min.)

Step-by-step daily dump truck maintenance, including pre-start, warm-up, operating, and shutdown checks.

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### 37 Driver Daily Maintenance of Light Vehicles

International Road Federation 1989 (18min.)

Daily preventive maintenance procedures for light vehicles such as pick-ups and station wagons, and why these procedures are necessary.

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### 38 Operation of a 600-Gallon Asphalt Distributor

NM-DOT 1990 (20min.)

Five phases of operating an asphalt distributor: 1) heating the asphalt; 2) hook-up to truck; 3) adjusting distributor for shooting; 4) shooting operation; 5) cleaning distributor.

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### 39 Preventive Maintenance of an Asphalt Distributor

NM-DOT 1990 (16min.)

Daily preventive maintenance check.

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### 40 Caution, Litigation Ahead: The Road to Effective Risk Management

FHWA 1990 (25min.)

Planning, organization, and training for safety can reduce tort liability.

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### 41 Better Inductive Loop Detectors

FHWA 1986 (16min.)

Research on failures has led to more effective materials and installation methods for inductive loop detectors, the most common vehicle detector now in use.

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### 42 Lime - The Versatile Stabilizer in Construction

National Lime Association 1990 (26min.)

Using lime as a soil stabilizer for highway subgrade and base construction.

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### 43 Blading Unpaved Roads

FHWA/National Association of County Engineers 1990 (22min.)

Basic procedures for maintaining granular roads with a motor grader and, if needed, drag. Also, daily pre-work checks of motor grader.

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### 44 Traffic Signal Systems: Go for the Green

FHWA 1990 (28min.)

When traffic signals are well-coordinated in an effective system, the result can be a smoother, more continuous flow for all roadway users, greater safety, more efficient use of fuel, and less pollution.

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### 45 Pennsylvania Roadway Management System

FHWA 1990 (21min.)

System coordinates accessing of information from various state stand-alone computer-based roadway systems.

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### 46 **Build Better and Save with Modern Timber Bridges**

FHWA 1988 (22min.)

The practical use of timber for bridges. An illustrated example of a stressed timber bridge is shown from design and fabrication to installation of the prefabricated units on a typical stream crossing of a township road.

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### 47 **New Directions in Traffic Sign Management**

American Traffic And Safety Services Association 1990 (17min.)

How local jurisdictions can develop an effective sign maintenance program, including inventory, evaluation, and scheduled replacements.

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### 48 **Ramp Metering: Signal for Success**

FHWA 1990 (17min.)

Explanation, for both informed laymen and public officials, of the principals and benefits of ramp metering by relating experiences of Denver, Los Angeles, and Minneapolis.

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### 49 **Design and Operation of Work Zone Traffic Control**

FHWA 1990 (58min.)

Five videos related to work zone traffic control cover work zone traffic control devices for special conditions, especially nighttime; alternative transportation strategies, emphasizing people movement and public information; flagging procedures; etc.

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### 50 **Uses of Asphalt-Rubber**

FHWA 1990 (12min.)

Scrap tires, a serious waste problem everywhere, can be economically recycled into an improved method of building roads.

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### 51 **Mailboxes May Be Hazardous to Your Health**

TX-DOT 1989 (14min.)

The hazards presented by non-yielding mailbox structures along the roadway, and approaches for reducing these hazards. Examples of both safe and hazardous mailbox supports.

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### 52 **Hydraulic Rock Rake**

U.S. Forest Service 1990 (11min.)

The Rock Rake can aid motor graders by making the last few required passes over a road, raking off large rocks and distributing the remaining fine material. In many cases, the Rock Rake can be substituted for the motor grader.

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### 53 **Idea Store 2**

PA-DOT 1989 (13min.)

Includes ideas on identifying (marking) construction signs, fire hose cone hold down, traffic control guidebooks, motor grader blade changing, measuring aggregate lost, 'innovative tools' from Iowa, and a public relations flyer on snow removal.

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### 54 Asphalt Seal Chips

NC Inst. for Transp. Research and Education 1989 (22min.)

The seven steps of asphalt seal procedure: examine existing pavement, repair pavement, clean surface, apply asphalt, spread aggregate, roll aggregate, and remove excess aggregate.

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### 55 Shoulder Maintenance

FHWA 1989 (21min.)

Detailed discussion of three types of operations that may be performed during shoulder maintenance: reshaping, low shoulder repair, and high shoulder repair.

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### 56 Maintenance of Gravel Roads

FHWA 1989 (27min.)

Proper procedures for smoothing and reshaping gravel roads. Techniques for intersections, railroad crossings, driveways, bridges, hilltops and valleys, and superelevation in curves.

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### 57 Ditch Maintenance

FHWA 1989 (17min.)

The need for proper drainage; the goals for ditch maintenance; procedures for performing the maintenance with motor grader and excavator.

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### 58 Crack Sealing

FHWA 1989 (16min.)

Clear, simple, and effective crack sealing procedures for small maintenance crews. The four steps: crack analysis and identification, crack cleaning and preparation, application of sealant, squeegee of cracks.

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### 59 Basic Traffic Control

FHWA 1989 (11min.)

The basic traffic control procedures for stationary and moving operations. Placement of warning signs and use of flaggers. Out of date. Replaced with tape 244.

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### 60 Pothole Patching

FHWA 1989 (17min.)

Causes of potholes, equipment needed for repair, and six steps for proper repair.

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### 61 Wetted Salt

Dow Chemical 1990 (20min.)

How calcium chloride works to melt snow and ice faster and at lower temperatures than plain salt. Three methods for prewetting rock salt with liquid calcium chloride.

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### 62 Breakaway Timber Utility Poles

FHWA 1989 (15min.)

Problems of utility poles close to travel lanes of roads and streets. Improving safety by use of breakaway utility poles.

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### 63 **The Best Defense is a Good Road**

FHWA 1989 (16min.)

This tape, tailored for cities and counties with smaller units of government, covers: (1) common causes for tort actions; (2) need for inspections and reporting; (3) accident data; (4) record keeping requirements.

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### 64 **Maintaining Gravel Roads in Arkansas**

University of Arkansas 1990 (29min.)

The basics of gravel road design, material specifications, and construction. Detailed explanation of two maintenance operations of existing roads, smoothing, and reshaping.

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### 65 **Dust Control**

Dow Chemical 1989 (16min.)

What dust is, and the problems it can create. How liquid calcium chloride controls dust. How to repair and improve an unpaved road by blading.

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### 66 **Pedestrian Safety: What You Can Do**

FHWA 1990 (9min.)

This tape shows, for both average citizen and officials responsible for public safety, the most common pedestrian safety problems and countermeasures for each. Also shows problems of handicapped safety.

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### 67 **Commercial Driver's License Series**

PA-DOT 1989 (295min.)

A ten-part series, on three tapes, to prepare drivers for testing required for the CDL. Tapes designed to be used without instructor but in conjunction with the CDL manual.

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### 68 **Guardrail Installation and Repair**

WA-LTAP/AK-LTAP 1988 (20min.)

Although keyed to Washington state's standards and procedures, the material can be useful to any state which follows AASHTO's design criteria.

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### 69 **Innovative Guardrail Installation (not narrated)**

TX-DOT 1990 (30min.)

A precise new method for constructing guard fences. No time is wasted trying to bolt a rail to a post that is too far away. Every post is placed quickly and accurately, with none having to be pulled up.

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### 70 **Sampling Aggregates from Stockpiles**

MI-DOT 1989 (27min.)

How to obtain non-biased representative samples from aggregate stockpiles.

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### 71 **Idea Store 3**

PA-DOT 1989 (10min.)

Subjects include: two different types of lifters for changing plow blades; the proper way to remove and store locking pin on articulated loader from within the cab; a pamphlet on daily maintenance of motor graders; etc.

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### 72 **Bridges Unbroken: Inspection of Timber Piling**

FHWA/US-DOT 1990 (20min.)

Ultrasonic testing for determining in-place strength of bridge timber pilings.

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### 73 **Traffic Barriers: An Overview**

FHWA 1990 (46min.)

A three-part tape: (1) an overview of common traffic barriers; (2) W-beam wood and steel post guardrail systems; (3) common terminals for W-beam guardrail systems.

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### 74 **Pavement Management Systems for Local Administrators**

FHWA 1990 (17min.)

The many benefits that pavement management systems offer local administrators. Alternative ways to start such a system.

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### 75 **Unsurfaced Road Management**

U.S. Army Cold Region Research and Engrg. Lab 1990 (9min.)

How to use the unsurfaced road management system developed by the U.S. Army's Cold Region Research and Engineering Laboratory (USACRREL).

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### 76 **Road Management Systems**

U.S. Army Cold Region Research and Engrg. Lab 1990 (6min.)

'Paver' (or 'Micro Paver'), a PMS developed by U.S. Army Cold Region Research and Engineering Laboratory (see 074), can be used to gather, organize and analyze information on roads to decide how, where, and when to spend money.

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### 77 **Unsurfaced Road Inspection**

U.S. Army Cold Region Research and Engrg. Lab 1990 (8min.)

How to take measurements for, and record, seven different kinds of unsurfaced road distresses.

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### 78 **Idea Store 4**

PA-DOT 1990 (10min.)

Subjects include: water runoff on rural roads; slush snow and ice build-up on snow removal equipment; road resurfacing; minimizing aggregate loss; use of discarded tires; portable road closed sign display.

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### 79 **Open Roads: A Look at Freeway Incident Management**

FHWA/US-DOT 1991 (19min.)

Through an effective mix of animation, special effects, on-camera interviews, and real-world video footage, this video dramatically depicts the severity of the freeway incident problem, then offers effective and practical solutions.

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### 80 **Idea Store 1**

PA-DOT 1989 (8min.)

How to mount plow blades when not in use; a handy hand level; a level for measuring the crown of a road; and other innovative ideas.

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### 81 **Potholes: Causes, Cures and Prevention**

U.S. Army Cold Region Research and Engrg. Lab 1983 (12min.)

Explains the causes of potholes, especially during the spring thaw. Explains how to break the never-ending cycle of patching potholes with a step-by-step method for patching correctly. Outlines the step needed for a preventive maintenance program.

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### 82 **Can a PC Help You?**

KS-LTAP 1990 (29min.)

A brief introduction to personal computer technology for rural transportation agencies, focusing on the factors to be considered when preparing to purchase a first system and stressing effective applications of computer technology.

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### 83 **Idea Store 5**

PA-DOT 1991 (11min.)

Subjects include: the horrible hard hat, proper tire inflation, safetygrams, proper signing, adopt-a-sign.

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### 84 **Chainsaw Safety**

Asplundh 1990 (11min.)

How to safely operate chain saws during ground cutting work and aerial trimming. Identifies maintenance requirements, general safety considerations, and hazards associated with limbing, bucking, trimming, felling, and brush cutting.

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### 85 **Chainsaws and Common Sense for the Pro logger**

Stihl 1990 (15min.)

How to identify and deal with chainsaw hazards while felling, limbing and bucking trees.

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### 86 **Professional Tree Care Safety: Part III - Equipment Safety**

National Arborist Association 1990 (28min.)

Safety considerations for use of aerial lifts, stump cutters, tree cranes, chippers and chain saws. How to work with various types of tree care equipment in a manner that reduces injury. Work site traffic control.

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### 87 **The Naked Truth: Chainsaw Clothing**

Forest Products Accident Prevention Association 1990 (6min.)

From head to foot, proper chain saw clothing is essential to avoid injuries.

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### 88 **Chainsaw Sharpening**

Forest Products Accident Prevention Association 1990 (7min.)

Proper chain saw sharpening increases safety as well as efficiency.

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### 89 **Technical Advancements for Maintenance Workers**

Strategic Highway Research Program 1992 (15min.)

Research is producing new products and methods of road maintenance that increase efficiency and safety.

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### 90 **Effective Snow Fences**

Strategic Highway Research Program 1990 (21min.)  
Benefits and key elements of effective snow fences.

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### 91 **Geotextile Installation on Gravel Roads**

OK-LTAP 1989 (43min.)  
Case histories and various conditions in which geotextiles improved low volume roads.

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### 92 **The Safer Roadside**

WA-DOT 1988 (16min.)  
Guidelines, policies and procedures for Control Zone Policy to reduce utility pole hazards.

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### 93 **Work Zone Safety for Rural Local Agencies: Parts 1 - 7**

NC Inst. for Transp. Research and Education 1989 (102min.)  
Traffic control devices, traffic control zones, typical applications, flagging, legal liability.

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### 94 **Safety Restoration During Snow Removal Guidelines**

FHWA/US-DOT 1990 (25min.)  
Safety priorities, policies and procedures for post-snowstorm cleanup.

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### 95 **Idea Store 6**

PA-DOT 1991 (17min.)  
Roadside wildflowers, effective signs, PA-DOT's Roads Scholar Program, safety promotion, etc.

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### 96 **Squeegee Machine for Crack Sealing**

MI-DOT, District 3 1990 (17min.)  
A three-truck convoy operation provides an efficient mechanical performance of an otherwise labor-intensive crack-sealing job.

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### 97 **Bridges to Your Future**

IL-DOT 1990 (23min.)  
The diverse operations of the Illinois Department of Transportation offer a wide variety of careers.

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### 98 **Operating Tips: Wheel Loaders**

Caterpillar 1975 (18min.)  
Visually demonstrates the step-by-step checks necessary to make sure the wheel loader is in good operating condition. Shows the basic techniques used in loader operations, and emphasizes safety and efficiency.

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### 99 **Operating Tips: Track-Type Loaders**

Caterpillar 1984 (19min.)  
How to get the most out of your equipment and yourself. A loader can dig, load, carry, excavate and doze. Emphasizes the need to learn about your machine by reading the owner's manual, daily checks of equipment, use of equipment and safety tips.

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### 100 **Operating Tips: Track-Type Tractors**

Caterpillar 1983 (15min.)

Takes the viewer through a step-by-step process which covers careful inspection of tracks, how to check hydraulic fluid, radiator checks, inspection of blade and blade hydraulics and other maintenance.

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### 101 **Cold Weather Effects**

Caterpillar 1975 (22min.)

Older black and white film. Uses a laboratory demonstration to show the effects of cold weather on materials, lubricants, coolants and systems at sub-zero temperatures (0F to -45F).

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### 102 **The Deposition**

PA-DOT 1991 (17min.)

Follow a district traffic engineer through the process of giving a deposition. Outlines the purpose of a deposition and provides some advice for giving depositions. Looks at some of the kinds of questions that may be asked.

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### 103 **Shake Hands With Danger**

Caterpillar 1984 (23min.)

Relays a message for all who work with heavy machinery and common shop tools. Primarily geared toward operators and mechanics. Realistic accidents, selected with help from the National Safety Council, make the video's warning loud and clear.

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### 104 **Surface Placement**

WA-DOT 1990 (18min.)

Documents the procedures, personnel, equipment and paperwork requirements in WA for inspection of the construction of the aggregate base course. Covers inspection of materials, project layout, surveying, equipment, subgrade and traffic control.

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### 105 **Tilt-Bed Trailers**

WA-DOT 1990 (27min.)

Emphasizes pre-start inspections, trailer hook-up procedures and equipment loading prior to hauling. Features practical hints on trailer towing, unloading procedures, loading and hauling pipe materials.

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### 106 **Weather and Loads: The Effect They Have on Roads**

MN Local Road Resch. Board, Braun Intertec Pvm. 1991 (17min.)

A meteorologist explains the scientific concepts of weather and loads on pavement through the use of props and models. The objective is to motivate greater initial costs of building stronger roads and define and display spring load limits.

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### 107 **Multiple Choice**

Caterpillar 1982 (24min.)

Reconstructs six accidents that actually happened. Safety questions are asked after each accident which could be used to stimulate safety discussions. The accidents portrayed are very graphic. Produced in cooperation with the National Safety Council.

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### 108 **Codington County Solution**

SD-DOT 1990 (16min.)

Takes you through an entire cold in-place recycling project. Benefits of stabilization include cost savings of 50%, conservation of virgin materials, use of less sophisticated equipment, and limited traffic disruption.

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### 109 **Bituminous Seal Coat**

WA-DOT 1990 (16min.)

Presents in clear terms the materials, equipment, traffic control, and work methods for bituminous seal coats. References made to WADOT's standard specifications; however, ideas presented are generally applicable anywhere.

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### 110 **Cold Weather Starting and Operation**

Caterpillar 1975 (24min.)

Black and white film. Deals with temps of 0F to -40F. Explains inspection checks necessary prior to equipment starting and use. Examples are: track and carrier rollers, sprocket adjustment, truck shoes and hardware, final drive and transmission.

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### 111 **Upgrading Gravel Roads**

MT State Film and Television Department 1985 (15min.)

Demonstrates techniques and cost evaluation of upgrading rural gravel roads. Directed at the problems that low maintenance budget counties face in keeping the roads in good condition. Techniques for some types of maintenance are also discussed.

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### 112 **Chip Seal Surfacing**

AR-LTAP 1991 (15min.)

Discussed are: determining limits of the work area and setting up warning signs; taking a condition rating and making the required repairs; the equipment needed; spreading asphalt and aggregate; rolling; removal of loose chips; and warning signs.

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### 113 **Not a Toy: Dump Truck Preventive Maintenance and Daily Inspecti**

SD-DOT 1988 (12min.)

The dump truck driver is encouraged to make checks twice daily to ensure the vehicle is in good working condition. Gives a check list and suggests corrective measures if defects are found.

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### 115 **Proctor Compaction Test**

AR-LTAP 1991 (11min.)

Covers procedures involved in the performance of the Standard Proctor Compaction test, a laboratory test for soils which can be used for the specifications and control of field compaction. Covers equipment needs and procedures for the test.

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### 116 **Bituminous Plant Inspection**

WA-DOT 1990 (37min.)

Covers the basics of bituminous plants and their inspection. Subjects include materials, batch plant operations and drum-mix plants. Targeted to professional engineers and supervisors.

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### 117 **Getting the Good Buy: Purchasing for Local Governments**

PA-DOT 1991 (8min.)

Based on the Pennsylvania 'Purchasing Handbook for Local Governments.' After each chapter, the video offers a 'Test Your Knowledge' section, which quizzes viewers on the chapter just covered.

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### 118 **Highway Capacity Manual for Locals**

DE-DOT 1989 (15min.)

Provides a beginner's overview of the new Highway Capacity Manual. Provides definitions for such terms as uninterrupted flow; defines capacity; provides several simple levels of service calculations; and discusses the principal of weaving.

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### 119 **Tort Liability: Introduction**

TX-DOT 1988 (23min.)

This section covers 'do what you're going to do,' definition of risk management, risk finance, risk control, risk management process, tort, trial, Texas Tort Claims Act, personal liability, negligence/liability, and lawsuit activities.

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### 120 **Tort Liability: Negligence and Liability**

TX-DOT 1988 (51min.)

Covers introduction, negligence, comparative vs. contributory negligence, defending a lawsuit, personal liability, and summary.

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### 121 **Tort Liability: Examples of Tort Related Lawsuits**

TX-DOT 1988 (35min.)

Covers introduction, examples of street/highway related tort lawsuits, construction/work zones, inadequate signing, slippery road conditions, defective road conditions, malfunctioning signals, and other cases involving hazardous conditions.

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### 122 **Tort Liability: High Risk Areas**

TX-DOT 1988 (102min.)

The section covers introduction, high-accident locations, maintenance and construction sites, edge drop-offs, slippery roads, narrow bridges, fixed objects near the roadway edge, pavement defects, traffic control devices, signals, signs, etc.

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### 123 **Tort Liability: Methods of Reducing Risk of Roadway Tort Liability**

TX-DOT 1988 (117min.)

Covers introduction, risk finance including commercial insurance, risk control, risk management program including qualified staff, review of agency standards and policies, education, documentation and record keeping, accident reduction program, etc.

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### 124 **Tort Liability: Reducing Risk of Roadway Tort Liability and Data C**

TX-DOT 1988 (48min.)

Section 6 covers introduction, signs, trouble with placing signs, using signs to avoid accidents and sign placement. Section 7 covers introduction, roadway inventory, road volumes (ADT) counts, photologging/videotaping, skid test numbers, etc.

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### 125 **Tort Liability: Accident Reduction Program**

TX-DOT 1988 (87min.)

Covers introduction, accident data storage and retrieval system, general Texas system, high-accident locations and other hazardous locations, identification of high-accident locations, identification and recommendation of countermeasures, etc.

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### 126 **Tort Liability: Alcohol & Drugs, and Roadway Improvements**

TX-DOT 1988 (102min.)

Section 9 covers drug-related accidents, research areas, alcohol and its effects, and drugs and their effects. Section 10 covers use of design standards, setting priorities, scheduling roadway improvements, and evaluating improvements.

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### 127 **To Warn, Guide and Protect: An Introduction to Flagging**

NM-DOT 1992 (21min.)

The New Mexico T2 Center is pleased to provide you with a flagging video produced jointly with the New Mexico State Highway and Transportation Dept. The information presented is based on national standards, so the video should be useful to any agency.

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### 128 **Hot In-Place Recycling**

Asphalt Recycling and Reclaiming Association 1991 (7min.)

Now there is good news for people in the asphalt maintenance industry. Hot in-place recycling can extend existing asphalt life well beyond its former life span at half the cost of conventional resurfacing and protect our environment while doing it.

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### 129 **Cold In-Place Recycling**

Asphalt Recycling and Reclaiming Association 1990 (10min.)

Overview shows many different processes used with hot in-place recycling which is a cost-effective, high-quality method of rehabilitating existing asphalt pavements.

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### 130 **The Cold Planing Revolution**

Asphalt Recycling and Reclaiming Association 1989 (6min.)

As a revolutionary way to maintain pavement, cold planing is a process that may change the way you look at the job you do and the way safe roadways are achieved.

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### 131 **Full Depth Reclamation**

Asphalt Recycling and Reclaiming Association 1992 (12min.)

Full depth reclamation continues to gain popularity as a road and street maintenance technique. It is a proven method of structural rehabilitation that is both economical and environmentally sound.

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# Michigan LTAP Video Library

## ID Description

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### 132 **Idea Store 7**

PA-DOT 1992 (10min.)

A storehouse of ideas from across the nation on ways to make your job safer, easier, or better. Ideas include: curb scraper, dump truck airfoil, and a better cylinder wrench from Grand Traverse County Road Commission; and timber bridge information.

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### 133 **Establishing a Realistic Speed Limit**

Michigan State Police 1989 (10min.)

This 10-minute video can be used in a coordinated effort by local law enforcement and traffic engineering personnel prior to initiating a traffic survey investigation and/or in resolution of local speed zoning controversies.

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### 134 **Subsurface Utility Engineering: A Technology for the 90's**

FHWA 1990 (36min.)

Subsurface utility engineering, an emerging technology, provides accurate information on horizontal and vertical locations of underground utility facilities during the early development of highway projects to minimize underground utility conflicts.

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### 135 **Testing and Field Inspection of Roadway Delineation**

Graham-Miglitz Enterprises, Inc. 1990 (36min.)

Assisting highway agencies in developing a field inspection program to evaluate roadway delineation systems throughout the life of the markings. These devices include pavement markings, highway signing, and post mounted delineation.

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### 136 **Tort Liability Mock Trial**

WY-LTAP/MT-LTAP/SD-LTAP 1991 (36min.)

Mock trial demonstrates the importance of proper signage and training programs. This video was taped at FHWA Region 8's Annual County Road Advisors Meeting.

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### 137 **Pavement Structure Repair Techniques: Part One**

NC Inst. for Transp. Research and Education 1989 (87min.)

Pavement structure repair techniques show basic principles and techniques for the maintenance of gravel roads, ditch maintenance, pothole patching, crack sealing, and basic traffic control.

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### 138 **Pavement Structure Repair Techniques: Part Two**

NC Inst. for Transp. Research and Education 1989 (43min.)

Part two of this series continues with more basic principles and techniques on shoulder maintenance and asphalt chip seals.

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### 139 **The New Safety Profit**

Safety Shorts Production 1990 (16min.)

Managerial viewpoint giving reasons for having a safety program at your company. Information is shown on making a safety program profitable. Overview of the 'safety shorts' program is also shown.

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# Michigan LTAP Video Library

## ID Description

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### 140 **Advance Warning (Flashing) Arrow Panels: Positive Guidance**

FHWA/US-DOT 1993 (25min.)

Getting drivers safely through work zones is a challenge equal to any highway construction or maintenance task. One particularly effective device for guiding drivers is the advanced warning arrow panel.

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### 141 **Barrier Delineation in Work Zones: The Well Defined Path**

FHWA/US-DOT 1993 (25min.)

Concrete barriers do their job of protecting motorists, pedestrians and workers. But to be visible in all conditions, they must be delineated with effective devices that are correctly installed and properly maintained to promote safe work zone travel.

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### 142 **Frost Action In Soils**

U.S. Army Cold Region Research and Engrg. Lab 1992 (11min.)

Description and laboratory results of frost action and its effects on road surfaces. Basic prevention of frost heave is also shown.

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### 143 **Right Before Your Eyes**

American Traffic And Safety Services Association 1993 (12min.)

The goal is to increase awareness of the important role pavement markings play in traffic safety, and to raise a concern that this vital safety issue needs the attention and involvement of the public and government agencies.

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### 144 **Plows of the Future**

Strategic Highway Research Program 1990 (8min.)

An eight minute video describes the development and benefits of the SHRP snow plow configurations. Benefits include reduced energy cost, improved safety for motorists by reduction of the snow cloud that is generated for improved visibility.

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### 145 **Modern Timber Bridges: A New Return For Old New England**

RI-LTAP 1993 (15min.)

This video explains the timber bridge demonstration project in the Town of Foster, Rhode Island. The use of locally utilized timber can result in cost saving materials and can achieve the same traffic load bearing capability as steel and concrete.

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### 146 **Maintaining Asphalt Roads (Blade Patching)**

NM-DOT 1993 (11min.)

Designed for motor grader operators, this tape shows step-by-step procedures of patching and maintaining asphalt roads.

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### 147 **Harmful Materials Awareness for Construction Workers**

PA-DOT 1992 (22min.)

The goal of this course is to increase the awareness of harmful materials on the part of transportation workers involved in highway construction activities. The video presents ways to prevent exposure to harmful materials.

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# Michigan LTAP Video Library

## ID Description

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148 **Concrete Bridge Protection, Repair and Rehabilitation**

Strategic Highway Research Program 1993 (5min.)

Overview of the contents of the Strategic Highway Research Program's C-103 field guide. Covers testing chloride contamination, concrete removal, rapid bridge deck repair and rehabilitation, conventional rehabilitation and new rehabilitation techniques.

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149 **Finding Better Ways: New Research into Cost-effective Pavement**

Strategic Highway Research Program 1992 (19min.)

New research into cost-effective pavement repairs.

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150 **SUPERPAVE: Asphalt Pavements that Perform**

Strategic Highway Research Program 1992 (5min.)

Benefits of performance-based asphalt specifications.

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151 **Pavement Maintenance and Worker Safety**

Strategic Highway Research Program 1993 (16min.)

This Strategic Highway Research Program summarizes products designed to improve efficiency of pavement maintenance operations and work-zone safety.

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152 **Staying Ahead of the Storm: Road Weather Information System**

Strategic Highway Research Program 1992 (20min.)

A road weather monitoring and prediction system employing real-time sensor data, historical weather patterns, and computer models to forecast specific adverse pavement conditions.

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153 **Evaluation Procedures for Deicing Chemicals**

Strategic Highway Research Program 1993 (10min.)

This video outlines and describes the need for the tests, and aids in understanding how to perform the tests.

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154 **Harmful Materials Awareness for Design Workers**

PA-DOT 1992 (21min.)

The goal of this training course is to increase the awareness of transportation workers involved in highway design activities. The video presents ways to prevent exposure to harmful materials.

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155 **Harmful Materials Awareness for Maintenance Workers**

PA-DOT 1992 (12min.)

The goal of this training course is to increase the awareness of transportation workers involved in garage and road maintenance activities where they may encounter unknown wastes. The video presents ways to prevent exposure to harmful materials.

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156 **Hardsurfacing a Gravel Road Using Pre-Mix Asphalt**

MO-DOT 1991 (20min.)

Demonstrates the steps involved in hardsurfacing a gravel road using pre-mix asphalt on a county/city road in Missouri.

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# Michigan LTAP Video Library

## ID Description

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**157 Snow and Ice Control**

Strategic Highway Research Program 1993 (12min.)

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.

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**158 New Work Zone Safety Devices**

Strategic Highway Research Program 1990 (17min.)

Setting up SHRP's new work zone safety devices are shown. The advantages of these new devices are discussed.

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**159 Installation of Snow Scoop**

University of Wyoming 1992 (13min.)

Describes the installation and concept behind the snow scoop prototype. Helpful in designing and installing a shop-built snow scoop.

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**160 Bituminous Paving Inspection: Overview (Part One)**

MI-DOT 1991 (30min.)

Part one focuses on bituminous paving and the specific requirements for the different types of equipment used.

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**161 Bituminous Paving Inspection: Preparing to Pave (Part Two)**

MI-DOT 1991 (34min.)

Part two looks at surface repair work and other paving preparations such as traffic control, joint and crack repair, and bond coat applications.

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**162 Bituminous Paving Inspection: Paving Operations (Part Three)**

MI-DOT 1991 (40min.)

Part three presents paving operations, where we look in detail at mix delivery, pavement courses, paving procedures, inspections and other topics.

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**163 Bituminous Paving Inspection: Rolling Operations (Part Four)**

MI-DOT 1991 (31min.)

Part four concentrates on joint construction, compaction requirements, rolling principles and procedures, density control, final surface checks, and pavement markings.

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**164 Bituminous Paving Inspection: Crushing and Shaping**

MI-DOT 1991 (22min.)

Covers the preparations for crushing and shaping, as well as the operations for cold milling, shoulder blading and trenching, crushing, mixing, spreading, compacting, and finishing.

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# Michigan LTAP Video Library

## ID Description

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### 165 Bituminous Paving Inspection: Rubblizing

MI-DOT 1991 (25min.)

Covers preparations for rubblizing, the materials and equipment used, the construction steps and related inspection concerns, and the measuring and documenting of the work.

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### 167 Construction Site Erosion: Best Management Practices

Ohio DNR and Ohio Home Builders Association 1990 (75min.)

Details the prevention of construction site erosion. Shows how on site erosion occurs and the sediment damage it causes. Numerous examples explained in three units: Erosion Control, Sediment Control and Settling Ponds.

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### 168 Soil Erosion and Sediment Control

Northeastern Illinois Planning Commission 1993 (16min.)

Proper procedures and practices are shown to minimize soil erosion and control runoff of sediment. Details five key elements: 1) Site planning and design, 2) Soil stabilization, 3) Sediment control, 4) Runoff control, and 5) Inspection and maintenance.

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### 169 Aesthetic Bridge Rails and Guardrails

FHWA 1991 (8min.)

Alternatives and improvements for aesthetic bridge rails and guardrails. Summarizes the crash testing and special features of concrete bridge rails and guardrails as described in 'Summary Report on Aesthetic Bridge Rails and Guardrails' FHWA-SA-91-051.

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### 170 Pavement Repair: Do the Right Thing at the Right Time

MN-DOT/MN Local Road Research Board 1991 (22min.)

Non-technical terms are used to explain why asphalt pavements break up; the consequences of broken pavement; how local transportation agencies gather data on roads; and alternatives for pavement rehabilitation. Alternatives are also outlined.

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### 171 Idea Store 8

PA-DOT 1993 (10min.)

A storehouse of ideas from across the Nation on ways to make your job safer, easier, or better.

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### 172 Your Tax Dollars and Roads

ME-LTAP 1993 (25min.)

Topics include: why all road dollars should be stretched, why cutting road dollars and putting off maintenance to 'hold the line on taxes' will probably create long term problems, how the T2 Center's Road Surface Management System (RSMS) worked, etc.

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### 173 Asphalt Crack Treatment

MN-DOT/MN Local Road Research Board 1993 (15min.)

A road crew supervisor introduces asphalt crack treatments to his co-worker who has been reading up on the latest research on crack treatments. Animation is used to explain the difference between sealing and filling. Equipment and procedures are shown.

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# Michigan LTAP Video Library

## ID Description

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174 **Concrete Bridge Railings: The Modified Thrie Beam Guardrails; C**

FHWA/US-DOT 1990 (14min.)

Covers the new AASHTO Design guidelines for bridge railings. Reviews bridge railing tests and designs for all design classifications in accordance with the new ASSHTO Guidelines.

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175 **Response to Winter**

PA-DOT 1993 (21min.)

Explains the how and why of PENNDOT's winter operations.

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176 **Concrete Testing**

MI-DOT 1993 (39min.)

Training in the methods of performing tests to check the quality of Portland Cement Concrete from field samples. Divided into three parts: 1) sampling, temperature, slump; 2) Acme air meters; 3) molding cylinders, molding test beams, testing beams.

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177 **Idea Store 9**

PA-DOT 1993 (6min.)

Shows key chains with visual reminders of the size and location of a vehicle's blind spots.

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178 **The Clemson Beaver Pond Leveler: One Solution**

Clemson University 1990 (50min.)

Introduces the Clemson Beaver Pond Leveler, a device which allows drainage and manipulation of water flooded by beavers. Presents an overview of the historical aspects, life history, and biology of beavers, outlines the leveler's design and construction

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179 **Sealcoating: A Matter of Science and Skill**

MN-DOT/MN Local Road Research Board 1993 (17min.)

Discusses the purpose of sealcoating, outlines the basics of planning a sealcoating job, and gives some tips for doing the job right.

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180 **1994 Michigan Bridge Conference: Opening**

MI-LTAP 1994 (65min.)

Discusses ISTEA systems integration, bridge management systems, and metrication. This series of tapes was filmed at the 1994 Michigan Bridge Conference held at the Mount Pleasant Holiday Inn on March 9 & 10, 1994.

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181 **1994 Michigan Bridge Conference: Program Administration**

MI-LTAP 1994 (88min.)

Discusses bridge programs, bridge management systems, and permits procedures update.

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182 **1994 Michigan Bridge Conference: Preliminary Engineering**

MI-LTAP 1994 (75min.)

Discusses life cycle cost analysis, environmental engineering, and timber bridges.

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# Michigan LTAP Video Library

## ID Description

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**183 1994 Michigan Bridge Conference: Design**

MI-LTAP 1994 (120min.)

Discusses bridge replacement strategies, short span bridges, medium span bridges, aesthetics in design, and historical bridges.

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**184 1994 Michigan Bridge Conference: Construction**

MI-LTAP 1994 (124min.)

Discusses bridge deck rehabilitation, MI-DOT's innovative contracting, staged bridge construction, and emergency repairs.

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**185 1994 Michigan Bridge Conference: Maintenance**

MI-LTAP 1994 (90min.)

Discusses bridge inspection, painting, joint replacement, washing bridges, and scour evaluation.

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**186 1994 Michigan Bridge Conference: Materials**

MI-LTAP 1994 (94min.)

Discusses concrete bridge deck overlays, bridge deck expansion joints, and Michigan's experience with epoxy coated reinforcing steel.

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**187 Sometimes You Just Can't Miss: Functional Replacement of Publi**

FHWA Region One, New York Division 1993 (21min.)

Introduces the federal Functional Replacement program for replacing publicly-owned facilities while maintaining continuity of services and avoiding increased costs. Details how to apply for the Functional Replacement program and what to do next.

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**188 Soil Erosion & Sedimentation Control Training Series Units 1-5**

Michigan Department of Natural Resources 1990 (86min.)

Covers erosion and sedimentation goals and principles, controlling runoff and erosion on construction sites, vegetative stabilization, controlling sediment, developing a control plan, and inspecting installation.

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**189 Rural Development: Tourism Case Studies**

UMinn - Minnesota Extension Service 1994 (60min.)

Rural tourism development: four case studies of success stories involving tourism development. You'll hear national tourism experts answer questions about real tourism development problems and find out what it takes to make a tourism effort succeed.

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**190 Snowplow Safety**

National Safety Council 1995 (23min.)

Presents collision prevention techniques for snowplow drivers. Discusses equipment inspection, truck positioning, scanning, mirror use, and defensive driving techniques.

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# Michigan LTAP Video Library

## ID Description

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**191 Build Your Path to the Future**

WI-DOT 1993 (20min.)

Discusses employment opportunities in highway construction. Gives examples of careers in highway construction and advice on how to begin a construction career. Comes with a Resource Directory for the Wisconsin area.

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**192 Asphalt-PASER: Pavement Surface Evaluation and Rating**

MI-DOT 1995 (46min.)

Overview of surface management for asphalt pavement. Discusses surface evaluation and distress, and presents a method for rating pavement.

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**194 General Welding Safety and Tank Repair (Maintenance Welding Se**

MI-LTAP 1994 (52min.)

Part one of the Maintenance Welding Series. The Welding Safety section covers fire hazards, hazard prevention, extinguishing fires, body and eye protection. The Tank Repair section explains various non-welding methods of tank repair.

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**195 Gas Welding and Metal Identification (Maintenance Welding Series**

MI-LTAP 1994 (88min.)

Part two of the Maintenance Welding Series. The Gas Welding section explains the proper maintenance of gas welding equipment (tanks, regulators, hoses, torches) and regular setup.

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**196 Arc Welding (Maintenance Welding Series, Part 3)**

MI-LTAP 1994 (51min.)

Part three of the Maintenance Welding Series. Explains how an arc welder works (AC and DC), welder setup, and special safety issues (open circuit voltage, ventilation, eye and body protection). Describes the various electrodes and their uses.

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**197 Quality Control of Concrete On Site - Part One**

Strategic Highway Research Program 1994 (14min.)

Presents the conventional test methods for sampling concrete and determining temperatures and slump.

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**198 Quality Control of Concrete On Site - Part Two**

Strategic Highway Research Program 1994 (17min.)

Examines test methods for determining air content and unit weight, and the procedure for making cylinders and beams for compressive and flexural strength tests.

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**199 Quality Control of Concrete On Site - Part Three**

Strategic Highway Research Program 1994 (18min.)

Discusses new quality control tests and techniques: water content measurement and thermal effects evaluations for as-delivered concrete; and maturity monitoring for as-placed concrete.

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# Michigan LTAP Video Library

## ID Description

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### 200 **Quality Control of Concrete On Site - Part Four**

Strategic Highway Research Program 1994 (18min.)

Discusses new quality control tests and techniques for as-placed concrete: temperature-matched curing, pulse velocity testing, and nuclear density testing.

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### 201 **Soil Stabilization: Selecting the Modifier**

ERES Consulting/FHWA 1990 (19min.)

Describes how stabilizing soils can make stronger, more durable pavement structures. Explains the technology of four stabilizer elements - lime, fly ash, cement, and bituminous - and how to determine which one to use.

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### 202 **Introduction to Rehabilitation of Highway Concrete**

Strategic Highway Research Program 1994 (10min.)

The first of five videotapes that address the rehabilitation of highway concrete. Introduces several specific measures for rehabilitating both concrete pavement and concrete structures: partial depth spalling repair, full depth spalling repair, and etc.

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### 203 **Partial Depth Repair of Concrete Pavement**

Strategic Highway Research Program 1994 (15min.)

Looks at materials used for partial depth concrete repair and outlines partial depth repair procedures: determination of boundaries, surface preparation, placement and consolidation, and finishing and curing.

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### 204 **Full Depth Repair of Jointed Concrete Pavement**

Strategic Highway Research Program 1994 (18min.)

Discusses full depth repair of jointed concrete pavement: distresses that require full depth repair, field surveying, transverse joint design, materials, and repair procedures.

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### 205 **Concrete Pavement Overlays**

Strategic Highway Research Program 1994 (22min.)

Examines the steps in constructing concrete overlays: design considerations, pre-overlay repairs, surface preparation, concrete placement and curing, and joint sawing and sealing.

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### 206 **Bridge Deck Overlays**

Strategic Highway Research Program 1994 (19min.)

Examines the use of concrete bridge deck overlays as a cost effective way to rehabilitate bridge decks. Discusses deck conditions, material, surface preparation, and overlay placement.

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### 207 **Early Opening of Full Depth Concrete Repairs**

Strategic Highway Research Program 1994 (10min.)

Presents the major considerations for early opening of full-depth concrete repairs: careful planning, scheduling, and evaluating.

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# Michigan LTAP Video Library

## ID Description

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### 208 Alkali-Silica Testing

Strategic Highway Research Program 1994 (20min.)

Looks at alkali-silica reactivity (ASR) - one of the major causes of cracking in concrete. Examines ASR determination, prevention, and discusses both conventional and new testing methods.

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### 209 Freeze-thaw Testing

Strategic Highway Research Program 1994 (25min.)

Examines the causes and prevention of freezing and thawing effects on concrete and discusses both conventional and new testing methods.

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### 211 Installation, Inspection, and Maintenance of Work Site Traffic Cont

International Road Federation 1994 (24min.)

Presents the installation, inspection, and maintenance of traffic control devices at a worksite based on a traffic control plan.

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### 212 Developing Jobsite Traffic Control Plans

International Road Federation 1994 (21min.)

Demonstrates how to develop an effective traffic control plan by following the evolution of a control plan through preplanning, designing and writing, implementing, evaluating, and revising.

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### 213 Worldwide Traffic Sign Systems

International Road Federation 1994 (26min.)

Describes the types and purposes of signs that are common to the three sign systems-US, European, and Latin American-and reviews the basic design elements for all sign systems.

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### 214 Special Use Traffic Controls

International Road Federation 1994 (17min.)

Discusses traffic controls that address potentially hazardous traffic conditions: hazard identification or speed beacons, lane use control signals, pedestrian signals, freeway ramp control signals, narrow bridge or tunnel signs.

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### 215 Traffic Sign Placement and Location

International Road Federation 1994 (22min.)

Covers the placement and location of signs in general, then takes a more specific look at placement and location of signs in urban, rural, and freeway areas.

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### 216 Traffic Controls for Schools, Railroad Crossing, and Bicycle Facilit

International Road Federation 1994 (24min.)

Discusses traffic controls needed for unique situations that require extra safety considerations for drivers - schools, railroad crossings, and bicycle facilities.

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# Michigan LTAP Video Library

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### 217 **Markings and Islands**

International Road Federation 1994 (19min.)

Details the design and application of markings and islands including pavement markings, delineators, object markings, curbed islands, and non-paved islands.

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### 218 **Traffic Sign Inspection and Maintenance**

International Road Federation 1994 (21min.)

Discusses aspects of sign inspection and maintenance: sign maintenance facilities, field equipment, and materials. Also considers how to measure the performance of signs, describes a sign inventory system, and shows how inventory data can be collected.

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### 219 **Traffic Control Signals at Intersections**

International Road Federation 1994 (18min.)

Describes how engineers determine if a signal is needed, how signal controller phasing works, and how signal timing works.

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### 220 **Indian America: A Gift from the Past**

Media Resource Association 1994 (60min.)

Reveals how a 15th Century village called Orette became a prize of immeasurable worth to Indians and non-Indians. The Makah people tell what the Orette discoveries mean to them and how the excavation changed their lives.

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### 221 **Asphalt Overlays: The Four Ps**

MN-DOT 1994 (15min.)

Delineates the four phases of the asphalt overlay process: planning, preparations, production, and placement.

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### 222 **SI Metric for the Workplace**

Workplace Training 1994 (15min.)

A three part series on using metric. Lesson one presents an introduction to metric, lesson two covers units of measure, and lesson three outlines reading and writing rules.

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### 223 **Asphalt Paving Inspection**

FHWA 1996 (20min.)

Reviews the responsibilities of a paving inspector, procedures of a paving operation, and common problems encountered with mix quality, operations, etc.

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### 224 **Sign Maintenance and Installation**

FHWA 1996 (27min.)

Discusses the importance of proper sign installation and maintenance and the impact these activities have on accident prevention and liability reduction. Covers inventory procedures, control devices, and installation devices.

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# Michigan LTAP Video Library

## ID Description

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### 225 **Chip Seal Application**

FHWA 1996 (40min.)

Discusses chip seal application as a maintenance strategy to improve skid resistance and provide a water proof seal. Covers preliminary concerns, material selection, surface preparation, application procedures and common problems.

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### 226 **Subsurface Utility Engineering**

FHWA 1995 (16min.)

Explains the process used to locate underground utilities early in the development of a highway project.

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### 227 **Problems with Gravel Roads**

FHWA 1996 (55min.)

Three part tape discusses the gravel road environment and material selection, problem identification, correction and prevention, and maintenance equipment and techniques.

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### 228 **What is Anti-Icing?**

FHWA/CRREL 1996 (9min.)

An overview of the anti-icing technologies developed under the Strategic Highway Research Program.

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### 229 **Anti-Icing for Maintenance Personnel**

FHWA/CRREL 1996 (13min.)

Describes this systematic approach to winter road maintenance. Topics covered include material, equipment, personnel, and strategies. Companion to 'Manual of Practice for an Effective Anti-Icing Program.'

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### 230 **It Doesn't Hurt to Live in a Safe Community**

National Highway Traffic Safety Administration 1996 (24min.)

In this excerpt of a NHTSA video conference local officials discuss actions communities can take to increase safety and reduce traffic related injuries.

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### 231 **Motorgrader Daily Maintenance**

FHWA/NM-LTAP 1990 (12min.)

Describes the proper procedures for the daily preventative maintenance of motorgraders.

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### 232 **Excavation**

NC Inst. for Transp. Research and Education 1994 (23min.)

Workshop covering proper excavation techniques and safety.

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### 233 **Rotary Mower Operation**

DE-LTAP 1984 (17min.)

Covers the proper operation techniques and routine maintenance of tractor-towed mowers, single wing flail mowers, and bat wing mowers.

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# Michigan LTAP Video Library

## ID Description

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### 234 Bulldozer Preventative Maintenance

DE-LTAP 1984 (13min.)

Focuses on daily maintenance, startup, shutdown, and on finding and correcting problems before they become serious.

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### 235 Loader Operation I, II and III

DE-LTAP 1984 (32min.)

Part one covers daily maintenance and safety. Part two covers startup, shutdown, basic maneuvering. Part three covers stockpiling and loading trucks.

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### 236 Six Wheel Dump Truck I and II

DE-LTAP 1984 (29min.)

Part one covers daily preventative maintenance, startup, and transmissions. Part two covers basic maneuvering, operating the dump body, and shutdown.

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### 237 Setting Speed Limits

VT-LTAP 1995 (10min.)

Discusses the importance of traffic surveys when assigning local speed limits. Covers road characteristics, 85th percentile speed, accident history, and more.

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### 238 Understanding Superpave Mix Design

FHWA/NAPA 1990 (13min.)

Describes Superpave tools and techniques: performance-based binders and volumetric testing.

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### 239 Emulsified Cold Mix

FinnRa/MN-DOT 1995 (10min.)

Overview of the successful use of emulsified cold mix in Finland as an environmentally friendly pavement surface for local roads. Also discusses demonstration projects done in Minnesota.

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### 240 Creating Meadows Through Road Maintenance and Construction

USDA Forest Service 1995 (8min.)

Discusses the techniques used in maintenance and construction to restore water tables and eliminate erosion channels.

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### 241 Hot Mix Asphalt Plants

Wisconsin DNR 1996 (97min.)

Discusses air management system and the construction and operating permits for the relocation of hot mix asphalt plants.

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### 242 Utility Cuts in Paved Roads: Part 1 & 2

MI-DOT 1997 (41min.)

Two part presentation focuses on making utility cuts in paved roads effectively and safely with minimal traffic disruption.

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# Michigan LTAP Video Library

## ID Description

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**243 Determination of Asphalt Content Ignition Method**

MI-DOT 1998 (20min.)

Presentation covers the equipment, operation, and testing procedures using the NCAT Asphalt Content tester for determining asphalt content of hot mix paving samples.

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**245 Controlling Stormwater In Sarasota**

Sarasota County 1998 (9min.)

During 1992 and 1995, flood waters overtook Sarasota, watch as they install new drainage devices to control future floodwaters.

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**246 The Stormwater Challenge**

Orange County 1998 (26min.)

What Orange County is doing to protect its groundwater from the toxic sludge created when urban stormwater and hazardous chemicals combine.

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**247 Wrecker Operation**

DE-DOT 1998 (21min.)

Wrecker operation is a big responsibility. This video provides a close look at proper procedures for safe wrecker operation.

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**248 Snow and Ice Control - A Review of Innovative Practices Two Tape**

MN-LTAP 1995 (222min.)

This broadcast from MN shows different methods of controlling snow and ice, the equipment used to do so, and different innovative ways to control snow and ice around the country.

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**249 Making Safer Roads**

Insurance Institute for Highway Safety 1996 (12min.)

Highlights proper safety equipment and roadside hazards that could prevent hundreds of single automobile accidents yearly.

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**250 Utility Cut Repair**

Local Roads Research Board 1996 (11min.)

How Minnesota is increasing the quality of workmanship associated with making and repairing utility cuts while still saving time and money. Reviews bad repairs and how to prevent future problems.

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**251 Traffic Control: What Works?**

Local Roads Research Board 1996 (14min.)

Offers information on how public officials develop reasonable, research-based traffic control strategies and choose traffic control devices.

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# Michigan LTAP Video Library

## ID Description

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**252 Fit to be tied - Retrofitting PCC Pavement with Dowel Bars, Dowel**

FHWA/US-DOT 1996 (52min.)

Introduces procedure for retrofitting dowel bars into plain joint PCC to rehabilitate worn PCC pavements. Outlines installation and goes over reasons for retrofitting. Shows procedures in Washington, Kansas and Indiana.

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**253 Concrete Testing - Metric Revision**

MI-DOT 1997 (31min.)

Training in the methods of performing tests to check the quality of portland cement concrete from field samples, emphasizing metric specifications. Divided into three parts; 1) sampling, temperature, slump; 2) acme air meter; 3) Roll-A-Meter.

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**254 Air Quality Conformity in Transportation Planning**

Zapata Engineering 1999 (20min.)

Brief overview on guidelines local official must follow in Clean Air Act & State Implementation plan which address air quality & standards of maximum pollutant levels allowed in area & population

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**255 Compressed Gases: Safe Handling**

Coastal Video Communications Corp. 1996 (18min.)

Provides training and special skills for the proper handling of pressurized gases.

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**256 Crane Inspection**

Coastal Video Communications Corp. 1995 (18min.)

Tips and guidelines for keeping your crane in safe operating condition.

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**257 Indoor Cranes-Safe Lifting Operations**

Coastal Video Communications Corp. 1991 (19min.)

This video program is specifically designed for non-licensed operators to give them the knowledge they need to safely operate several types of cranes.

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**258 Working Around Cranes**

Coastal Video Communications Corp. 1995 (19min.)

Teach your employees how to identify and prevent the hazards associated with working around cranes-- before those hazards become accidents.

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**259 Forklift Case Histories-Serious Business**

Coastal Video Communications Corp. 1995 (18min.)

Reenactments of four actual accidents which occurred on or around forklifts and walkies. Ideal for training and re-training.

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**260 Confined Space Case Histories**

Coastal Video Communications Corp. 1995 (14min.)

Emphasizes the importance of following proper confined-space safety procedures by showing reenactments of actual accidents. Ideal for training and re-training.

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# Michigan LTAP Video Library

## ID Description

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**261 Boomlifts in Construction**

Coastal Video Communications Corp. 1996 (10min.)

Provides your workers with the training necessary to keep them safe while working around boomlifts.

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**262 Construction Trenching and Shoring**

Coastal Video Communications Corp. 1992 (10min.)

Provides basic trenching and shoring safety guidelines. The practical safeguards covered can help prevent needless casualties.

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**263 Trenching and Shoring Safety**

Coastal Video Communications Corp. 1994 (18min.)

Provides an understanding of trench hazards--and how to prevent cave-ins.

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**264 Trench Box Installation**

Coastal Video Communications Corp. 1996 (13min.)

This video program covers safe selection, installation and removal of trench shields and boxes based on OSHA excavation standards..

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**265 Protecting Our Pavements: Preventive Maintenance**

FHWA/MI-DOT 1998 (14min.)

Explains advantages of preventive maintenance for keeping roads in better condition longer. Outlines techniques, training, improved planning, and dedicated funding strategies.

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**266 Equipment Management Systems**

FHWA 1998 (18min.)

This video discusses the various elements of an EMS, including shop management, inventory control, fluid dispensing, and financial control.

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**267 The Importance of Road Drainage**

FHWA 1998 (18min.)

This video stresses the importance of providing adequate drainage for the extended life of road surfaces.

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**268 Using Snow Plows on Motor Graders**

FHWA 1998 (15min.)

Demonstrates how to attach various plows and how to operate the motor grader for snow removal.

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**269 Loading and Towing Heavy Equipment**

IL-DOT 1998 (14min.)

Focus is on the proper procedures for loading, towing and trailer hook-up for heavy equipment. Safety issues are also addressed in this tape.

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# Michigan LTAP Video Library

## ID Description

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### 270 Trench Excavation and Backfill

McAninch 1998 (13min.)

Discusses the role of moisture content during compaction and how the shape of a trench relates to safety, economy and pressures on the pipe.

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### 271 Wheel Loader Operating Techniques

Vista 1993 (23min.)

Covers a wide variety of common operating situations . Shows techniques for recovering from a slide on a side hill to dealing with buried utilities and high speed traffic.

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### 272 Road Embankments & Structural Fills

McAninch 1998 (18min.)

Understanding the process for soil compaction include soil identification, testing, and proper equipment. Each of these elements is discussed to ensure an optimum soil compaction.

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### 273 Safety Training For Repair Technicians

Vista 1996 (22min.)

Examines types of mobile equipment repairs with related accidents and provides effective ways to prevent them.

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### 274 How to Get More Out Of Your Motor Grader

John Deere 1989 (25min.)

This video demonstrates road maintenance and road building techniques to capitalize on your motor grader investment.

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### 275 Taking Control Of Your Motor Grader

John Deere 1989 (19min.)

Modern motor grader controls and functions are shown in this video designed to improve operator skills.

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### 276 Highway Management Series

International Road Federation 1995 (182min.)

This 2 tape set covers: Highway Management Systems-Introduction, Pavement Management Systems (PMNS): An Overview, PMS Data Collection/Management, Developing and Implementing Pavement Management Systems.

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### 277 Low Volume Roads Series

International Road Federation 1996 (34min.)

Discusses setting maintenance priorities and managing maintenance for low-volume roads.

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### 278 Traffic Safety Series

International Road Federation 1995 (58min.)

This series covers: Identifying Highway Safety Problems and Solutions, Evaluating and Selecting the Best Safety Alternatives, Evaluating Safety Program Results.

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# Michigan LTAP Video Library

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### 279 **Equipment Management Systems Series**

International Road Federation 1996 (131min.)

This series covers: Introduction to EMS, Equipment Inventory, Equipment Maintenance, Parts and Supplies Management, Financial Management, Equipment Management Information Sub-system and EMS Implementation.

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### 280 **Contract Maintenance Series**

International Road Federation 1995 (56min.)

This series covers: Contract Maintenance-Overview, Contract Maintenance-Procedures, and Contract Maintenance-Supervision.

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### 281 **Technology Transfer Series**

International Road Federation 1996 (46min.)

This series covers: Effective Technology Transfer Methods and how to Establish a Technology Transfer Program.

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### 282 **Construction Management Systems Series**

International Road Federation 1996 (91min.)

This series covers: Construction Management System Overview and Planning, Developing Contract Staffing Guidelines and Planning Values, Manpower Budgeting/Scheduling Procedures, and Construction Management System-Monitoring.

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### 283 **Slurry Seal Use And Application**

International Surface Slurry Association 1994 (34min.)

Outlines what slurry seal is, the equipment used to apply it, and where it is best used.

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### 284 **Microsurfacing Use, Application & Inspection**

International Surface Slurry Association 1994 (100min.)

Explains the basics of microsurfacing and procedures for its use and application. Covers material testing, equipment, plant processing, and surface preparation.

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### 285 **Testing Ready Mixed Concrete in the Field**

Construction Materials Engineering Council 1999 (58min.)

Educational tool for the concrete field testing technician outlines the ASTM test methods covered in the concrete field technician certification course.

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### 286 **Hot Mix Asphalt Sampling Truck Haul Unit**

MI-DOT 1998 (10min.)

Details the procedures for safely obtaining a representative hot mix asphalt sample from a truck hauling unit. Sampling from both inside the truck unit and from a fixed platform are covered.

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# Michigan LTAP Video Library

## ID Description

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### 287 **Quartering and Centrifuge Extraction**

MI-DOT 1998 (34min.)

This video details the reduction of a representative bituminous field sample to testing size using the quartering method. The asphalt content is then determined by running a centrifuge extraction procedure followed with a sieve analysis.

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### 288 **Concrete Paving Inspection**

MI-DOT 1998 (83min.)

A 5 part training series in performing inspection checks for concrete paving operations. 1) Basic Information, 2) Paving preparations, 3) Reinforcement, 4) Paving Operations, 5) Joints

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### 289 **Prefabricated Timber Bridge Deck Panels**

USDA Forest Service 1998 (11min.)

The relatively low cost method for fabrication of timber decks over steel girders using methods developed by John Smolen.

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### 290 **Torts are Everybodys Business**

PA-DOT 1992 (5min.)

Gives a brief overview on civil suits (tort liabilities) local road agencies face due to wrongful injuries on the road ways.

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### 291 **How to Give a Deposition**

PA-DOT 1991 (17min.)

Gives a brief overview on how to give a deposition.

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### 292 **Local Government on Trial: Part One-The Background**

Penn State University/PA-LTAP 1995 (41min.)

Describes the various aspects of a court case, how it proceeds from the time of the accident, through the complaint discovery process, the courtroom proceedings and jury decisions.

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### 293 **Local Government on Trial: Part Two-The Trial**

PA-DOT 1995 (90min.)

Defines practices and terms commonly used in an accident investigation trial.

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### 294 **Keep An Eye On It - Environmental Awareness for Gravel Road Mai**

Oakland CRC 2000 (18min.)

-Establish the relationship between stream quality and the maintenance, construction and repair of road crossings.

-Identify conditions and practices which may degrade water quality and fishery resources, and repair of road crossings.

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# Michigan LTAP Video Library

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### 295 **Implementing Phase II of the NPDES Storm Water Regulations**

American Public Works Association 2000 (150min.)

A videotape of the two and one-half hour satellite videoconference program. This informational material can be used to show others in your agency or your chapter who did not have the opportunity to be at the NPDES Phase II Storm Water Workshop.

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### 296 **Archways to Our Past**

MI-DOT 2000 (27min.)

The story of Michigan's historic highway bridges. This is a story about Michigan's early years as told through the historic bridges.

Contacted Ann Cleary (MDOT) for loaner copies.

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### 297 **Ready Set Winter Driving Safely on Ice and Snow**

AAA 1996 (0min.)

This video provides a brief overview of how to prepare the vehicle for harsh winter weather, describes several driving situations that require special attention and explains how to handle common winter driving problems. It consists of 2 segments.

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### 298 **East Topeka Roundabouts**

KS-LTAP 2000 (9min.)

This is a 8:30 (minute) video discussing roundabouts in Topeka Kansas. It is primarily stressing safety. It is produced by Kansas DOT. Although it is a good video about roundabouts, there is no discussion of maintenance (ie snowremoval).

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### 299 **The New Generation of Snow and Ice Control: Anti-icing and RWI**

FHWA 1998 (7min.)

This video explores both the use of anit-icing chemicals and specialized road weather information systems (RWIS), the new generation of snow and ice control.

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### 300 **Bridge Evaluation and Posting**

FHWA 1993 (38min.)

(Unable to copy this video)

Produced by North Carolina State University  
FHWA-SA-93-078

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### 301 **Preventive Maintenance Project Selection**

FHWA 2000 (30min.)

Explains the importance of preventive maintenance and how it can prolong the life of pavement by using the right treatment at the right time.

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# Michigan LTAP Video Library

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### 302 Sealcoat - PASER

TIC U Wisc 2001 (14min.)

This video is intended to help local officials plan the maintenance and overall management of sealcoat roads. It discusses common problems and typical repairs and presents a simple system for evaluating and rating sealcoat roads.

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### 303 Gravel - PASER

TIC U Wisc 2001 (16min.)

One of 3 PASER (Pavement Surface Evaluation and Rating) videos for rating and evaluating pavement surfacing; each deals with specific surface: Asphalt, Gravel, Sealcoat.

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### 304 Road Blading-Forest Style

USDA Forest Service 2000 (18min.)

This video is designed to be viewed by contractors, State, County, or other cooperating agencies and Force Account Road Blading operators for the purpose of sharing the Forest Service philosophy and practices when maintaining forest roads.

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### 305 It's About Time...Traffic Signal Management Cost Effective Street

FHWA 2001 (13min.)

This video demonstrates the importance and benefits of maintaining optimized and current traffic signal-timing plans and investing resources in traffic signal systems.

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### 306 Safely Regulating Traffic In Michigan

MI-DOT 2002 (19min.)

A flaggers responsibilities are critical in keeping work zones safe. This video looks the planning, training, and good flagging. There is also additional information specific to MI-DOT traffic regulating requirements.

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### 307 Forest Roads & The Environment

USDA Forest Service 2002 (84min.)

A set of 5 videos titled: Forest Roads and the Environment (18min), Reading the Traveled Way (16min), Reading Beyond the Traveled way (16:30min), Smoothing & Reshaping the Traveled way (17:30), & Maintaining the Ditch and Surface Cross Drains (16min).

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### 308 Night Lights

FHWA/US-DOT 2002 (10min.)

An educational video on the importance of retroreflectivity in the effort to improve road safety.

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### 309 Making the Effort Works

FHWA/US-DOT 2002 (19min.)

Reducing utility delays during construction.

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# Michigan LTAP Video Library

## ID Description

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### 310 **Pothole Repair: Proven Practices**

MN Local Road Resch. Board, Braun Intertec Corp. 1999 (14min.)

This video is intended for street maintenance workers who repair potholes for municipal, county, and state highway agencies. It provides an overview of the causes of potholes and repair methods.

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### 311 **Road Repair: Do the Right thing at the Right Time**

MN Local Road Resch. Board, Braun Intertec Corp. 1991 (21min.)

In just 21 minutes, you can get a better understanding of the logical steps in road rehabilitation. Learn how to assess making road repairs by looking for the cause of damage, considering the consequences, collecting data, and considering the reasonable a

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### 312 **Comparable Concepts for Replacement Housing/Business Relocat**

FHWA 2001 (12min.)

This presentation explores the concept of replacement housing for displaced owners and tenants under the Uniform Act and 49 CFR Part 24. It is very useful for relocation agents working on federally assisted projects for governmental agencies as well as Lo

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### 313 **Scheduled Lives, Stressful Drives**

FHWA 2001 (22min.)

This videotape illustrates how Advanced Traveler Information Systems return control to travelers by giving them choices - choices of time, route, and mode of travel.

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### 314 **Effective Pavement Preservation by Identifying Distress Condition**

Ohio LTAP 2002 (18min.)

To enable the right treatment for the right road at the right time.

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### 315 **Highway Work Zone Safety Series:Traffic Control Safety**

IA-DOT/AGC/FHwA/IGTSB 1996 (10min.)

Recognizing proper procedures for installing and maintaining effective traffic control through a highway work zone, recognizing dangerous situations, with constant awareness of potential hazards while performing work assignments.

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### 316 **Highway Work Zone Safety Series: Plant Site Safety**

IA-DOT 1995 (11min.)

Recognizing wide variety of potential hazards, that all traffic around the plant site increases chances for an accident, taking necessary safety precautions when operating heavy equipment, and safe storage of chemicals and flammables.

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### 317 **Fundamentals of Tire Wear**

Michelin North America 0 (0min.)

Troubleshooting tire wear patterns on commercial truck tires as part of Tire Maintenance & Repair Workshop November, 2004.

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# Michigan LTAP Video Library

## ID Description

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### 318 **Dispelling Myths About Rubber on the Road (Tire Maintenance)**

Tire Retread Information Bureau 0 (6min.)

Tire Retread Information Bureau and International Tire & Rubber Association made this training video for drivers and others in the maintenance of commercial truck tires, used as part of Tire Maintenance and Repair Workshop, held November 2003.

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### 319 **Public Sector Fleet Retreading Programs (Tire Maintenance)**

Tire Retread Information Bureau 0 (0min.)

Tire Retread Information Bureau made this training video for drivers and others on the maintenance of commercial truck tires, used as part of Tire Maintenance and Repair Workshop, held November 2003

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### 320 **Fleet Tire Service OSHA Compliance Training Program Video**

Tire Industry Association 0 (101min.)

ITRA OSHA 29 CFR 1910.177 Tire Industry Association made this OSHA Compliance training video on the maintenance of commercial truck tires, used as part of Tire Maintenance and Repair Workshop, held November 2003. 5 parts: 1. Detecting Potential Zipper Ru

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### 321 **Highway Work Zone Safety- Utility Safety in Work Zones**

IA-DOT/AGC/FHwA/ISU 0 (15min.)

Recognizing the constant and extreme danger of the presence of utilities, markings for the five major utilities- telecommunications, electric, gas, water, and sewer, One Call to help locate hazards, consequences of disruptions.

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### 322 **Highway Work Zone Safety-Surveying Safety**

IA-DOT/AGC/FHwA/ISU 0 (18min.)

Recognizing hazardous situations surveyors are in, inside and outside the highway work zone, during the pre-construction and post-construction, recognizing the individual is responsible for their safety in the surveying area.

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### 323 **Highway Work Zone Safety- Loading, Transporting & Unloading Sa**

IA-DOT/AGC/FHwA/ISU 0 (12min.)

Recognizing dangerous situations related to large equipment transportation, and avoiding unsafe activities, the hazards of lack of visibility, unbalanced heavy equipment can fall off during loading or unloading, and individual responsibility for safety.

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### 324 **Highway Work Zone Safety-Removal/Demolition Safety**

IA-DOT/AGC/FHwA/ISU 0 (11min.)

Recognizing the hazards associated with the demolition and removal of roads, structures, and utilities in preparation for new construction, understanding the demolition plan and the equipment being used, and individual responsibility for safety.

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# Michigan LTAP Video Library

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**325 Highway Work Zone Safety-Moving Operations/Maintenance Safet**

IA-DOT/AGC/FHwA/ISU 0 (13min.)

Recognizing personal responsibility for safety in the highway work zone that safety is more important the closer you are to traffic and the longer you're exposed to it, keeping aware of the line between the work zone and the traffic zone.

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**326 Highway Work Zone Safety-Paving Safety**

IA-DOT/AGC/FHwA/ISU 0 (12min.)

Recognizing the common hazards of asphalt cement concrete (ACC) and Portland cement concrete (PCC), paving operations and equipment, night paving, and individual responsibility for safety.

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