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Symbols Used in this Catalog

► **new listing**

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BICYCLISTS & PEDESTRIANS

Bikes on Buses (6 min), Florida Bicycle/Pedestrian Commuter Center. Describes a transit program in Florida and equipment used to transport bicyclists and their bikes on buses.

Commute for Life (15 min), Colorado DOT, 1992. Shows how to implement bicycle commuting to work as a daily activity. Safety practices and laws are also mentioned.

Evaluating Conditions for Bicycling through Users' Perceptions and Operational Evaluations (1:10 hrs), Mid-America Transportation Center. A lecture by David Harkey describing the development and potential use of the bicycle compatibility index (BCI).

Pedestrian Safety—What You Can Do? (9 min), USDOT/FHWA. Explains basic safety measures to be taken on behalf of pedestrians. It stresses the three E's : engineering, education and enforcement.

Seattle's Bicycle Program (11 min), Seattle Engineering Department, no date. Describes Seattle's accomplishments in being a bicycle-friendly city through the use of a comprehensive trail system and on-street improvements for easier bicycle accessibility.

See and Be Seen (9 min), AAA. Child safety rules for playing outside, precautionary measures to avoid being hit by a vehicle.

Trucks and Bicycles Sharing the Road (22 min.), American Trucking Assoc. Promotes skills for truckers and bicyclists for safe road sharing skills.

Trucks and Pedestrians—Keep It Between the Lines (18 min), American Trucking Association, 1993. This video explores safety concerns when pedestrians and trucks share the road.

► **Walk Our Children to School Day** (13:20 min), Thomas May Associates, Inc, 1999. This video is a compilation of several news segments highlighting

Walk Our Children To School Day (October 6) in Alabama; parents were interviewed on the hazards they encountered on their walk to school.

WALK! (13 min), FHWA, OTA, HTA, 1996. This video is about making a more pedestrian-safe environment. It discusses how design problems put pedestrians at risk and stresses that communities need to take walkers into consideration when planning new projects.

Walking Through the Years (13 min), FHWA. Offers older adults (65+) helpful pedestrian-safety guidelines. Also includes five 30-second PSAs.

BRIDGES & CULVERTS: safety, inspection, & maintenance

Aesthetic Bridge Rails and Guardrails (8 min), FHWA. Shows how the beauty of historic and scenic areas can be maintained through the use of bridge rails and guardrails that blend in with the scenery.

Bridge Deck Overlays #28 (15 min), SHRP, 1994. Describes the concrete bridge overlay as a cost effective way to repair some kinds of bridge drainage.

Bridge Maintenance for Local Road Crews (14 min), Vermont Tech Transfer Ctr, 1994. Shows maintenance procedures local road crews can use to keep bridges in good condition.

Bridges Unbroken (20 min), Univ. of Maryland/ USDOT-FHWA, 1988. Discusses using ultrasound to inspect the condition of timber bridges. All aspects of inspection by ultrasound, from its inception at the University of Maryland at College Park to its application in the field, are covered.

Cleaning and Clearing of Bridges (13 min), FHWA, 1988. Describes the techniques used in the clearing and cleaning of bridges.

Cleaning of Lined Ditches, Culverts and Catch Basins (16 min), FHWA, 1985. Demonstrates how to clean lined ditches, culverts and catch basins.

Concrete Bridge Deck Repair (17 min), FHWA, 1988. Describes concrete bridge deck repair.

Concrete Bridge Protection, Repair and Rehabilitation (5 min), SHRP. Highlights the SHRP C-103 Field Guide, which deals with concrete removal, rapid bridge deck repair and protection, conventional bridge rehabilitation and deterioration due to chloride contamination.

Concrete Bridge Railings and The Modified Thrie Beam Guardrails and Cable Guardrails (38 min), FHWA. Three types of concrete barriers are discussed along with the advantages and performance of thrie beam barriers and cable guardrails.

Ideas That Make A Difference (12 min), Pennsylvania Transportation Center. Discusses saving time and energy in replacing pipes.

Impact of Truck Size and Weight on Highway Pavements and Bridges (30 min), FHWA. Covers axle loads, truck weight, load distribution and their relationship to pavement and bridge damage factors.

Inspeccion de Estructuras (Structures Inspection) (20 min), Texas T2 Center.

Introduction to Bridges (43 min), U. of Arkansas, 1993. An introduction to structural elements, loads and types of bridges commonly used in highway applications. Also briefly discusses how different bridges are built and how they behave.

Limpieza de Cuentas Y Reparacion de Derrumbes Menores (14 min), Texas T2 Center. (Remove Minor Slides and Clean Cut Ditches).

Maintain Drainage (10 min), Utah DOT, 1993. Describes the importance of maintaining roadside drainage to avoid major road deterioration.

Mantenimiento de Drenajes (12 min), Texas T2 Center. (Maintain Drainage).

Mechanical Cleaning of Unlined Ditches (20 min), FHWA, 1988.

Discusses the machines used in the cleaning of unlined ditches.

Modern Timber Bridges: A New Return for Old New England (10 min), U. of Rhode Island. Shows a demonstration of timber bridge installation.

Pile Cap Replacement (13 min), Oregon DOT Transportation Ctr. Demonstrates safety tips and the proper procedures to replace pile caps on bridges.

Prefabricated Timber Bridge Deck Panels (11 min), USDA Forest Service Wood in Transportation Program, 1998. Illustrates a relatively low cost method for fabricating timber decks over steel girders using methods developed by John Smolen, a county engineer in Ohio.

Remove Minor Slides and Clean Cut Ditches (12 min), Utah DOT, 1993. Describes procedures for keeping ditches and culverts clean to help prevent major flood damage.

Routine Structure Cleaning (17 min), Utah DOT, 1993. Emphasizes the importance of bridge structure cleaning and open drainage systems to prevent the corrosion of concrete and steel.

Small Bridge Repair (part of Job Safety Analysis series) (10 min), PA DOT, 1994. Describes the tasks involved in small bridge repair and how to maintain worker safety.

Structures Inspection (20 min), Utah DOT, 1993. Describes the procedures to follow to determine bridge conditions and perform routine maintenance upon inspection.

Things to Come (22 min), Louisiana DOT, 1987. Covers the design and construction of cable-stayed bridges and construction of the Hale Boggs Bridge, which spans the mouth of the Mississippi River.

Timber Bridge #2 (28 min), Pennsylvania DOT. Features the building of a low-cost timber bridge in

Pennsylvania. The entire process, from initial selection of proper materials to fabrication and final evaluation, is described.

COMPUTER-RELATED

GIS Workshop, Sessions I & II, Enterprise (full-function) GIS-T Software (1 hour, 52 min), KUTC, 1996. Discusses how geographic information systems (GIS) allow trained personnel to collect, maintain, analyze and effectively present spatially-referenced data.

GIS Workshop, Sessions III & IV, Desktop GIS-T Software (1 hour, 53 min), KUTC, 1996. Desktop GIS-T software is appropriate for state DOTs, universities, federal agencies, and larger cities and counties, MPOs, and consulting firms that want stand-alone or site-specific applications.

GIS: Government's Information Solution (17 min), Urban Regional Information Assoc., 1990. This video shows how GIS technology can help solve the day-to-day problems of managing a city, a county, or public utility.

GPS Teleconference, Part I, Basic GPS Operation and Issues (2 hour, 3 min), KUTC, 1995. Discusses the history of the Global Positioning System (GPS) and how it was developed. Specific questions include: How is GPS structured and what are its constituent parts? How does it work (in simple management terms)? How accurate is it?

GPS Teleconference, Part II, Basic GPS Application Concepts and Equipment Guidelines (1 hour, 9 min), KUTC, 1995. Discusses application and equipment considerations and guidelines. Specific questions include: What does a basic GPS normally include and what does it do? Why the variation in pricing for GPS receivers? What are the application issues of GPS?

GPS Teleconference, Part III, GPS Receiver Equipment Precision and the Potential Application for Each (1 hour, 25 min), KUTC, 1995. This session

explores differential correction methods and systems, the theory and rationale for their use, operation and practical implementation.

GPS Teleconference, Part IV, Current and Future Breadth of GPS Applications, and Benefits to the Public (1 hour, 20 min), KUTC, 1995. Transportation uses and system structure for railroads, automobiles, transit, agriculture, aviation, commercial vehicles/trucking, highway management, and intelligent transportation systems (ITS) are covered in this session.

Intelligent Vehicle Highway Systems: A Smart Choice (12 min), USDOT/FHWA. Provides an introduction to IVHS. It explains how such a program can be used to help increase the capacity of our road system and improve overall vehicle safety. Also documented are various field experiments under way using IVHS.

MAYDAY! Emergency Notification System (10 min), The Enterprise Group, 1996. Provides a good introduction to the Mayday System. This system notifies authorities of an incident quickly and conveys information about the nature and location of the incident.

Smart Moves: A Decision Maker's Video on the Intelligent Transportation Infrastructure (10 min.), Public Technology, Inc. And Thinkfilm Productions, 1996. Describes how to draw more from new transportation technology to improve the existing roadway system.

Your Roadmap to the Internet via The Bureau of Transportation Statistics (18 min), Bureau of Transportation Statistics, 1996. Provides a simple explanation of how the internet works. It also lists services you can subscribe to for using the internet, like America On-Line, and a few hints to follow when you're shopping around.

MISCELLANEOUS

Are You Prepared? (8 min), Mile Hi Cable, LP & Denver, 1994. Discusses

emergency planning and management using EIS. The video shows how to simulate a disaster and formulate emergency plans.

Bridges to Your Future (23 min), Illinois DOT. The Illinois DOT highlights some of the opportunities available within its divisions. Several employees discuss their jobs, training experiences and the projects that they are involved with.

Building America (12 min), Highway Innovative Technology Evaluation Center, 1997. Provides a general overview of the HITEC process and testimonials, and showcases a few HITEC evaluations. HITEC provides evaluations of new products for roads and fosters collaborative relationships between local, state, and federal agencies.

Call Before You Dig (13 min), AT&T, 1996. Discusses the presence of fiber optics beneath the ground. It stresses that anyone who digs should call and find out whether cables are present. Also shows pictures of markers that indicate cable is nearby. The main focus is the benefits of fiber optics.

Careers in Transportation Engineering (18 min), ITE. Features young transportation engineers discussing the challenges, responsibilities and excitement of the profession.

Chemical Control of Vegetation (14 min), Utah DOT, 1993. Explains the step-by-step procedures of controlling weeds, the type of chemical to be used, the rate of application, time of the year and time of the day the chemical would work best.

Coach Roy Williams: Safe and Sober (1 min), KDOT, 1994. This is a TV commercial with message: "Don't drink and drive."

Commercial Drivers License Tapes 1, 2A & 2B (82 min), Pennsylvania DOT. These videos are training tools for preparing for the commercial drivers license test. The 1986 Commercial Motor Vehicles Safety Act, which is aimed at improving the quality of com-

mercial drivers by ensuring they are properly trained, is also discussed.

Commercial Drivers License Tapes 2C, 2D, 3 & 4 (88 min), Pennsylvania DOT. See description above.

Commercial Drivers License Tapes 5, 6 & 7 (110 min), Pennsylvania DOT. See description above.

Creating Meadows through Road Maintenance and Construction (8 min), New Mexico LTAP, 1994.

Emergency Relief (17 min), USDOT. Describes the various aspects of Federal Emergency Relief Fund. This fund is available only in the case of natural disaster of catastrophic failure to federally funded highways. These include earthquakes, severe storms, floods, hurricanes, etc.

Fit For the Road (20 min), Idaho Department of Law Enforcement, 1990. Directed toward physicians who give physical examinations to truck drivers. Suggests specific areas to look at in determining the health of a truck driver.

Fueling The Future: No Place Like Home (1 hr), A KBDI-TV Production, 1988. Explores the role of energy in revitalizing communities.

Hazardous Materials in Transit (a slide presentation on video) (28 min). Describes the potential problems in the transportation of hazardous materials and how best to prevent them. Also describes how to group and understand hazardous materials.

Highway Runoff Water Quality (34 min), Washington State DOT. Summarizes a research program carried out in Washington State. The information has been used to help Washington DOT personnel determine the impact of pollutants that are washed off highways during storms.

ITE Overview and the Transportation Engineer (31 min), ITE. Discusses the role of the engineer in working to make transportation safe and efficient.

JSA Overview with Disclaimer (part of Job Safety Analysis series) (8 min), PA DOT, 1992.

Kansas City, Missouri Trans Missouri River Tunnel Project, The (11 min), 1996. Overview of the construction of the Trans Missouri and Missouri Valley Tunnels, These tunnels transport water from the North side of the Missouri River where treatment occurs to the South side where the population lives.

Leadership Skills for Today's New Manager ©, APWA, 1998. Features two motivational speakers. Dr. Cal LeMan talks about the Assertive Servent, a framework for leadership. Dr. White (aka. Dr. Jerko) emphasizes individual responsibility for health and why "Healthy is not normal."

Litter/Trash Pick-up (part of Job Safety Analysis series) (9 min), PA DOT, 1994. Discusses litter pick-up and describes job preparation, work zone, traffic control, environment, personal protection, equipment, and hazardous materials handling.

LP Gas: Know the Facts (11 min), Texas Dept of Highways & Public Transportation, 1990. Discusses proper handling on LP gas.

Mailboxes May Be Hazardous to Your Health (11 min), Texas Dept of Highways & Public Transportation. Addresses the danger posed by roadside mailboxes of various designs. The Texas Highway Department is shown testing various mailbox designs and has some suggestions on what type of mailbox is considered safe.

Milestones (28 min), KDOT. A silent documentary that gives a pictorial history of the evolution of transportation in the State of Kansas. It is a quick lesson in Kansas history and a very enjoyable video to watch.

Minnesota Local Road Research Board, The (12 min), Minnesota Local Rd Research Bd, 1995. Discusses how LRRB's research has led to great improvements in the construction and maintenance of local roads and streets

and how engineers from all over use results of LRRB's research.

Municipal Public Facilities (54 min), Texas Engineering Extension Service, 1990. Encourages city administrators see themselves as stewards of the public's assets, buildings and properties.

National Teleconference on Hydrogeomorphic (HGM) Functional Assessment Method for Wetlands. (2:30 hrs), Center for Transportation & Environ, 1997. HGM is a new method for determining the functional capacity of wetlands based on specific functional parameters and physical/biological characteristics. The HGM teleconference examines the progress of HGM to date and the future of functional assessment.

Natural Balance: Restoring Native Habitats, A (10 min), Monsanto Company, 1991. Covers the restoration of three ecosystems.

Older and Wiser Driver, The © (22 min), AAA Foundation for Traffic Safety, 1997. Provides an introduction on how age affects driving. Demonstrates the effects of vision, cognition, fitness and medication on the aging driver. Describes how to stay safe and know when it's time to stop driving.

On the Road to Equality: Women in Construction (31 min), Florida T2 Center. Discusses the emergence of women in the construction profession. It outlines rules and regulations that protect women and how women can handle discrimination by co-workers and contractors.

Performance Measures/Strategic Planning Using Case Studies in Public Works ©, APWA, 1998. Provides valuable information about performance measures and strategic planning, including how to implement these processes and get the all-important commitment of your fellow employees. Three-tape set.

Power of Bonds, The (11 min), American Public Power Assc, Public Finance Ntwk, & Salt River Project, 1990. Discusses how tax exempt municipal bonds are used to finance education,

transportation, utilities and health care needs at the local level.

Project Documentation (10 min), SNI International Resources, Inc., 1993. Discusses the importance clear, concise, correct, complete and concurrent project documentation.

Shooting Good Video (8 min), FHWA, 1996. Provides useful tips for documenting road work on video.

SI Metric for the Workplace (51 min), Workplace Training, 1994. A primer for architects, engineers and all support staff involved in commercial construction. These videos will help ease the transition to the metric system.

Soil Stabilization: Selecting the Modifier (20 min), USDOT/FHWA. Discusses four types of materials used in soil stabilization: lime, lime fly ash, cement and bituminous additives. Slides also available with script.

Subsurface Utility Engineering—A Proven Solution (12 min), FHWA, 1990. Introduces an emerging engineering field known as Subsurface Engineering. It takes a look at how this new field deals with the growing network of underground utilities and what it proposes to accomplish.

Technology Transfer Series (43 min), FHWA/Office of International Programs, 1997. This video covers six basic steps in the selection process and five requirements for adoption of new technology.

Technology Transfer: Good Neighbors in a Changing World (20 min), Organization for Economic Cooperation & Development. Many national and international organizations are involved in technology transfer. This video discusses several.

Training the Trainer (32 min), North Carolina LTAP Center, 1998. Clear and specific information for the public works staff who teach/train transportation-related workers. Dr. Gene Harding, University of Nebraska, presents the skills he uses in working with Nebraska motorgrader operators.

Turner-Fairbank Highway Research Center, The (13 min), USDOT. This research center investigates bridges, roadside barrier safety, and highway materials among many other highway-related products. Some of their methods and test procedures are highlighted in this video.

Vegetation Management (Mowing/Side Dozing) (part of Job Safety Analysis series) (9 min), PA DOT, 1994.

PAVEMENTS: design

AEMA: Paving the Way...to the 21st Century (11 min), AEMA, 1995. This video answers the question: "What is asphalt emulsion?"

Alkali-Silica Testing, #29 (20 min), SHRP, 1994. Discusses the determination and prevention of alkali-silica testing, which can cause cracks in concrete, based on both old and new research.

Arizona DOT's Strategic Highway Research Program Participation (15 min), SHRP, 1991. Shows one SHRP pavement research area, chosen because of unique traffic loads and specific environmental concerns. The information is used for pavement design research.

Asphalt Paving Inspection (1 hr), FHWA. Discusses hot-mix asphalt paving operations, inspection of work, basic responsibilities, paving operations and problems associated with paving operations.

Beyond the Surface (11 min), MN DOT, 1995. Discusses MN/Road, a six-mile outdoor pavement research lab in Minnesota. Minnesota's varying climate makes it an ideal site to study the effects of seasonal changes on road.

Bituminous Concrete Paving—Parts 1-3 (45 min), Washington DOT. A training tape for inspectors that includes preliminary checks and equipment, surface preparation, tack coats and delivery of hot-mix paving, compaction, and final project acceptance.

Bituminous Operations (part of Job Safety Analysis series) (11 min), PA DOT, 1993. Presents easy steps for work zone safety during bituminous operations. Simple training guide or refresher.

Bituminous Plant Inspection (2 Parts) (37 min), Washington State DOT. Gives basic information about bituminous plants, the materials in bituminous concrete, batch plant operations, and drum-mix plants.

Bituminous Surface Treatment (24 min), Washington State DOT, 1988. Covers the inspection process used to determine how much liquid asphalt and aggregate should be applied for new construction and rehabilitation.

Building the Notched Wedge Joint © (8 min), National Asphalt Pavement Association, 1998. Explores the reasons for superior performance of the notched wedge joint in pavement and its advantages during the construction process. Shows step-by-step procedures to follow in building the notched wedge joint.

Concrete Placement (17 min), Ken Heckman Productions, Inc. A simulated casting of a concrete pier shows the effects of concrete slump and vibration.

Detecting Flawed and Non-Standard Concrete (27 min), Virginia DOT Research Council. Discusses ways of examining concrete to determine its construction and durability, along with lab testing methods.

Field Testing Concrete (3 Parts) (34 min), Washington State DOT. Discusses testing methods to make sure the concrete delivered is what the designer has specified for a particular job. Included are explanations of equipment needed for concrete sampling and various test procedures.

Freeze-Thaw Testing, #30 (25 min), SHRP, 1994. Examines the causes of freeze-thaw damage in concrete and methods of prevention based on old and new techniques.

Fundamentals of Quality Concrete (17 min), Portland Cement Assoc.

Provides an introduction to the five essential requirements of quality concrete.

Handling Hot Mix Asphalt (11 min), NAPA, 1993. A discussion of hot mix asphalt construction training and the types of training media offered by field personnel.

Hydrated Lime Key To Improved Asphalt Pavements (21 min), National Lime Association. Deals with the use of hydrated lime as an anti-stripping agent as well as a reducer of age hardening and low temperature cracking, leading to more durable pavements.

MN/Road—Building a Better Foundation for the Future (10 min), Minnesota DOT, 1995. Demonstrates how MN-Road, a Minnesota research program, uses state-of-the-art technology to test and improve current roadways to prepare them for the demands of 21st Century transportation.

Pavement Mixture Design (76 min), Minnesota DOT. A two-part program: Part 1 covers generic design procedures and Part 2 covers Minnesota design procedures and specifications.

Paving The Way for Tomorrow's Highways (16 min), SHRP. Discusses the highway of the future and its needs.

Prestressed Concrete Overlay on IH35 in Texas #13 (17 min), Portland Cement Association. This Research and Demonstration project was initiated by the Center for Transportation and Research at University of Texas to investigate the design and construction techniques that relate to prestressed concrete overlays.

Prevention Rutting: Strip Asphalt Pavement (25 min), USDOT/FHWA USDOT/FHWA. Describes what results from bad combinations of asphalt materials and how prevention rutting will reduce these problems and produce superior asphalt concrete.

Quality Control of Concrete on Site: Parts 1-4 (67 min), SHRP, 1994.

Resilient Modules Laboratory Tests Parts 1 & 2 (40 min), Washington State Transportation Center. A two-part video focusing on elastic modules and how it is measured in pavement surfaces.

Segregation Talk By Jay Hensley (1:36 hr). Jay Hensley gives a lecture on segregation — the non-uniform distribution of aggregates on sizes or specific gravities.

► **Smart Road** (7:54 min), Virginia DOT, 2000. This video documents high-tech safety research being done in Virginia on a specially-designed roadway that carries regular traffic. The project also includes bridge safety research.

► **Smoother Roads Playbook** (24:45 min), KDOT/FHWA, 2000. Eight practices used in Kansas to achieve smoothness with Portland cement concrete pavement are highlighted. Having a precise stringline is stressed with remarks by former NFL coach John Madden.

Solutions—America's Highways (4 min), ABC Network & American Coal Ash Assc., 1997. An excerpt from an ABC-World News tonight segment that discusses the use of high performance concrete (fly ash, micro-silica, and cement).

Texas Mobile Load Simulator (11 min), Texas DOT. Discusses pavement testing and design.

Thickness Design Manual (23 min), Asphalt Institute. Gives an overview of the Thickness Design Manual.

Truck Traffic: Weighing the Consequences (20 min), FHWA, 1990. Discusses the impact of truck traffic on pavements, how to enforce weigh stations and how truck impact research leads to changes in pavement design.

Urban Concrete Paving: Strength and Durability (15 min), Concrete Pavement Association. Discusses some advantages of paving with Portland cement concrete, as opposed to asphalt, in city applications such as streets.

Weather and Loads: The Effect They Have on Roads (17 min), Braun Pavement, 1991. Describes the basic design of roadways and how they are affected by heavy vehicular loads as well as inclement weather.

What's Hot Mix Asphalt? (11 min), NAPA, 1993. Explains in a general way what Hot Mix Asphalt (HMA) is, how it is made, and its possible applications. It describes different load requirements and shows production of HMA and the actual application of HMA on a road.

PAVEMENTS: maintenance & recycling

Aplicacion de Capa de Sellado Asfaltico Parte I (Bituminous Seal Coat Part I) (17 min).

Aplicacion de Capa de Sellado Asfaltico Parte II (Bituminous Seal Coat Part II) (17 min).

Asphalt Crack Treatment (15 min), Minnesota Local Road Research Board, 1993. Describes the differences between sealing and filling cracks in asphalt pavement and how and when to apply treatments. Compares a variety of ways to clean and apply fill or seal cracks, depending on your budget.

Asphalt Emulsion Spray Applications © (23 min), The Asphalt Institute, 1970s. Describes and demonstrates pavement surface treatments with asphalt emulsion and aggregates and steps to follow for optimal results from emulsion surface treatments. Though produced in the 1970s, the methods are still valid.

Asphalt Maintenance Techniques (1:15 hr), Video University Productions, 1992. Discusses conditions, equipment and procedures for several maintenance techniques including crack filling, overlays, seal coating and geotextiles.

Asphalt Overlays: The Four P's (16 min), Minnesota Local Roads, 1994. Discusses the four P's of asphalt overlay: planning, preparation, production, and placement.

Asphalt Roadway Rehabilitation (6 min), DOT-FHWA. This video gives an overview of asphalt roadway rehabilitation and a course that is offered by LTAP centers to help determine the proper rehabilitation alternative.

Base and Sub-Base Repair (16 min), International Road Federation, 1988. Shows how to make repairs when water has saturated the road base.

Base Repair (12 min), Utah DOT, 1993. Discusses how to find, repair and eliminate causes of base failure.

Bituminous Seal Coat Part 1 (17 min), Utah DOT, 1993. Offers good practical instructions on running a good seal coat operation. Special attention is given to the proper use of the distributor truck. Also briefly covers chip spreader, trucks, and rollers.

Bituminous Seal Coat Part 2 (17 min), Utah DOT, 1993. See description for Part 1.

Bituminous Sealcoat (16 min), Washington State DOT, 1984. Presents the materials, equipment, traffic control and work methods for bituminous seal coats. References are made to Wisconsin DOT standard specification, but the concepts and ideas presented are appropriate for the subject.

Bituminous Surface Replacement (9 min), Utah DOT, 1993. Covers resurfacing to repair alligator cracking in several steps, from closing a lane of traffic to preparing the area, applying the material, and compacting it.

Carbide Grinding (14 min), Keystone Engineering & Manufacturing Corp. Keystone Engineering introduces a grinding process designed to correct slippery pavement, wheel rutting and faulted concrete better than diamond grinding. Carbide grinding is compared to other processes.

Chip Seal Application (40 min), DOT-FHWA. Chip seals give pavement a waterproof and skid resistant surface. Covers preliminary concerns, chip seals procedures, and chip seal problems.

Chip Seal Surfacing (14 min), Arkansas Center for Tech Transfer, 1991. Road distress reasons & solutions. Maintaining roads by chip sealing, fog sealing, slurry sealing, and patching. Rating road conditions, spray rates, surface preparation, and spreader rates.

Cold In-Place Recycling (40 min), Oregon DOT. Recreates actual field conditions, lab testing conditions and recycle train components involved in a cold in-place recycling project.

Cold Planing Revolution, The (6 min), Asphalt Recycling & Reclaiming Assoc., 1989. Demonstrates the cold planing technique.

Common Maintenance Problems and Causes © (20 min), International Roads Federation, 1985. This video, geared for the foreman, describes common road-related maintenance problems and causes for 7 areas: asphalt/pavement, portland cement concrete pavement, earth gravel roads, road shoulders, drainage facilities, bridges, and roadside areas.

Concrete Pavement Overlays, #27 (22 min), SHRP, 1994. Discusses general information and steps for constructing concrete overlays, including design consideration, pre-lay repairs, surface preparation, concrete placement and curing, and joint sawing and sealing.

Contract Maintenance Series: Overview, Procedures, and Supervision (1 hr), FHWA/Office of International Programs, 1997. Covers contract maintenance—what it is and why it is used.

Crack Repair in Asphalt Pavement (10 min), International Roads Federation, 1985. Covers filling of linear and area (alligator) cracks no wider than finger width. Covers equipment needs and steps for getting the job done.

Crack Sealer Operation, Parts 1 & 2 (58 min), Utah DOT, 1989. Part 1 shows the major components of the crack sealer. In Part 2, an operator demonstrates daily checks, including sealant and oil levels. Clean-out and overnight storage are also shown.

Crack Sealing Bituminous Pavement (9 min), Kansas DOT, 1991.

Crack Sealing: A Necessity for Pavement Maintenance (11 min), Oregon DOT. Discusses proper sealing equipment and methods for PCC and asphalt concrete pavement.

Demonstrating The Use of Fly Ash in The Recycling of Paving Materials (11 min), EPRI, KEURP. Presents how to use fly ash in the recycling of paving materials.

Designing for Quality #3 (31 min), Portland Cement Assoc. Reports on a project on I-90-94 in Wisconsin, recycling 112 lane-miles of old concrete into new Portland cement concrete pavement.

Diamond Advantage in Highway Grinding, The (10 min), Internl Grooving & Grinding Association/ NAPA/ Asphalt Institute, 1993. Discusses the economic and environmental aspects of diamond grinding in the rehabilitation of Portland cement concrete, as opposed to asphalt overlays, to improve drainage and rideability.

Distress Identification Manual (9 min), SHRP, 1992. Discusses the advantages of using this manual, emphasizing uniformity across the country.

► **Dura Patcher** (15:03 min), Duraco Industries, Inc. A promotional video demonstrating use of the Dura Patch machine for skin patches and pothole and shoulder repair. The machine attaches to a dump truck.

Dura Patcher: Patching Only (15 min), Duraco Industries, Inc., no date. Demonstrates patching of roads using the Dura Patcher. Be prepared for a lot of music and very little speaking in this video.

Early Opening of Full-Depth Concrete Repairs, #32 (10 min), SHRP, 1994. Explains the major considerations of early opening of full-depth concrete repairs. Planning, scheduling, and evaluating work is also discussed.

Finding Better Ways: New Research into Cost-Effective Pavement Repair (19 min), SHRP, 1992. Covers preliminary research on SHRP innovations for restoring pavement, geared for an administrative audience. Includes pothole repair, spall repair, and the use of rubberized asphalt and silicone in joint and crack sealing.

Fit to be Tied: Retrofitting PCC Pavement with Dowel Bars (52 min), USDOT & FHWA. Discusses how to fix slabs of deteriorating PCC pavement using by retrofitting with dowel bars.

Full-Depth Reclamation (12 min), The Asphalt Recycling & Reclaiming Association. In this type of pavement rehabilitation, the full pavement section is crushed to provide a new riding surface. It is an environmental and economical procedure.

Full-Depth Repair of Jointed Concrete Pavement, #31 (18 min), SHRP, 1994. Five major topics relating to repair of jointed concrete pavement: distress requiring full depth repair; field survey, transverse joint design, materials and repair procedures.

Handling Hot Mix Asphalt (16 min), NAPA, 1993.

Highway Maintenance Overview (15 min), Utah DOT, 1993. Furnishes an overview of Portland Cement Concrete, asphalt cement concrete and non-hard surfaces. Excellent viewing for crews.

Hot In-Place Recycling: New Technology for Old Roads (9 min). Discusses the process of hot in-place recycling, a way to renew cracked and worn-out pavement. This method is presented as cost effective, practical and better for the environment.

How to Prevent Segregation (26 min), Video University Productions, 1992. When certain aspects such as mix design, mixing plant techniques and truck loading are carefully monitored during the asphalt paving process, segregation can be avoided, and this video explains key points.

I-20/59 Project Meridian, Mississippi 1986 #14 (12 min), Portland Cement Association. The project shown involves the rehabilitation of an existing 25 year-old, 9" thick plain doweled concrete pavement, including undersealing, replacing (a few badly) broken slabs, reworking all joints and more.

I-80 Reconstruction Nebraska 1984 #7 (18 min), Portland Cement Association. In this video, the shoulder test includes add-on tied concrete shoulders, diamond grinding for smoothness and establishing new transverse joints.

I-90 Reconstruction in South Dakota and Minnesota #15 (15 min), Portland Cement Association. In this video, South Dakota replaces existing asphalt pavement with new concrete that includes tied concrete shoulders.

Importance of Road Drainage, The (19 min), FHWA/LTAP, 1997. Discusses procedures to facilitate water drainage and prevent potholes and pavement breakup. Highlights the topics of subsurface and surface drainage, drainage systems, and inspection. Very informative on all aspects of water drainage.

In-Place Cold Mix Recycling of Asphalt Pavements (8 min), Facilities Engineering Application Program, US Army Corps of Engineers. When it is more economical to recycle pavement than to replace it, this method would be one to consider. Primary and secondary roads and parking lots are good candidates for this type of recycling.

Introduction to Rehabilitation of Highway Concrete #22 (22 min), SHRP, 1994. This is the first tape of 5 about rehabilitation of highway concrete. It discusses partial depth repair, full depth repairs, full slab replacement, concrete overlays on existing pavement and overlaying bridge decks.

Iowa Bonded Overlay Project I-80 #6 (12 min), Portland Cement Association. Bonded concrete overlay on 9.1 miles of existing concrete pavement, west-bound lanes only.

Joint Re-Sealing of PCC (10 min), Utah DOT, 1993. Discusses a two-day joint re-sealing procedure for a concrete pavement. It shows briefly how the seal is cut, cleaned, sealed back again and given the proper shape. Hot pour and silicon joint sealing are demonstrated.

Joint/Crack Sealing (part of Job Safety Analysis series) (9 min), PA DOT, 1994.

Lane Leveling Bituminous Surface (11 min), Utah DOT, 1993. Discusses how to level a bituminous surface. The main emphasis is on showing different procedures of leveling in a step by step method and discussing the precautions to be taken in work zones.

Large Cold Planer Inlay Patching (17 min), Oregon DOT. Demonstrates how this method can be used for bridge and street repair when too much material has already been built up. Included are demonstrations of old material removal, replacement and traffic safety.

Larry Rulien and Dale Allen Discuss Cold Recycle Technology (13 min), Oregon State Highway Office of Intergov Public Affairs.

Liquid Surface Treatment (27 min).

Maintaining Asphalt Roads: Blade Patching (12 min), New Mexico State Highway & Transportation Department Training Academy. Discusses elements of blade patching using a motorgrader, including operation and preparation.

Maintaining Roadsides with Reduced Environmental Impact. (2:23 hrs), Center for Transportation & Environment, 1997. Features a panel discussing effective planning strategies and maintenance technologies for promoting safe and environmentally sound roadside vegetation management.

Maintenance Supervisor's Responsibilities (15 min), Utah DOT, 1993.

► **Micro-Surfacing Overview** (10:36 min), Scan Road Co. Provides an excellent introduction to microsurfacing, an

alternative to milling and placement of HMA. Describes effective placement and factors required for a durable mix.

Midwest Asphalt Rubber Project 1990 (11 min), International Surfacing, Inc. A collection of news broadcasts about using recycled tires in asphalt.

Minnesota I-90 Recycling #1 (16 min), Portland Cement Association. Deals with recycling existing "D"-cracked pavement as aggregate for new concrete pavement.

Partial-Depth Repair of Concrete Pavement, #33 (15 min), SHRP, 1994. Discusses the partial depth repair of concrete pavements, both materials and methods of repair.

Patch PCC with Bituminous Material (10 min), Utah DOT, 1993. This video demonstrates temporary patching of potholes in Portland Cement Concrete Pavement with bituminous materials when weather restrictions do not permit patching with cement. Staffing, equipment, and repair processes are presented.

Patch PCC with PCC (12:15), Utah DOT, 1993. Demonstrates small repairs in Portland Cement Concrete pavements including: marking the area to be repaired, saw cutting, excavating, cleaning, placing joint material, coating with epoxy, placing patch material, finishing and curing.

Patching with Hand Tools (13 min), Utah DOT. Covers proper procedures for patching road surfaces using hydraulic and hand tools.

► **Pavement Maintenance Project Selection—Right Road, Right Treatment, Right Time** (30 min), FHWA and the Foundation for Pavement Preservation, 2000. An excellent overview of the theory behind preventative maintenance strategies ("keeping good roads good") and demonstrations of specific preservation techniques.

Pavement Structure Repair Techniques (61 min), U. of North Carolina ITRE, 1989. Discusses three topics: 1) reshaping and maintaining

gravel roads and the operation of motor graders, 2) cleaning and reshaping ditches, and 3) causes of potholes and procedures for repair by small road maintenance crews.

Pavement Structure Repair Techniques Tape 1 (86 min), U. of North Carolina ITRE/FHWA, 1989. This excellent production addresses maintenance of gravel roads, ditch maintenance, pothole cracking, crack sealing and basic training tips.

Pavement Structure Repair Techniques Tape 2 (42 min), U. of North Carolina ITRE/FHWA, 1989. Covers shoulder maintenance and repair and asphalt chip sealing.

Pavement Surface Condition Rating Video (29 min), Washington State DOT, 1995. This video supplements the pavement surface condition rating manual. Tape helps viewer become familiar with common pavement defects and roadway safety. Covers pavement defects associated with flexible and rigid pavements.

Paving and Compaction Training (1:43 hr), Video University Productions, 1992. Discusses equipment checks and procedures and pavement techniques such as rolling patterns and proper compaction.

Permanent Pothole Patching (9:47), Utah DOT, 1993. Discusses causes of potholes and how to determine repairs needed. Materials and equipment are explained, and maintenance procedures are demonstrated in considerable detail: digging out damaged materials, tack coating, filling & compacting.

Porta Batch: The Proven Solution (9 min), Chemical Lime Group. During the construction of Denver International Airport, lime slurry was added to the soil to stabilize it and increase its strength. This video highlights the advantages of this procedure.

Pothole Repair 1 & 2 (47 min), Pennsylvania DOT. An excellent training video for management and labor on all aspects of potholes. Topics covered by this video include the causes of pot-

holes, the materials used in filling, the proper procedures that should be used in repair, compaction methods, etc.

Pothole Repair in Asphalt Concrete Pavement (13 min), FHWA, 1989.

Demonstrates repair techniques for asphalt concrete pavement.

Pothole Repair in Surface Treatment (13 min), International Road Federation, 1985. Shows how to repair potholes in surface treatment pavement using granular material.

Potholes—Causes, Cures and Prevention (17 min), U.S. Corps of Engineers. This entertaining video presents the causes, cures and prevention of potholes. Repair procedures are defined, including 12 steps for resolving the pothole problem.

Protecting our Pavements: Preventive Maintenance (14 min), FHA-MDOT.

Focuses on the importance of extending the life of pavement in order to keep costs down. Inexpensive techniques for preservation are discussed, such as the processes of bituminous crack sealing, microsurfacing, and chip sealing.

Protecting our Pavements: PREVENTIVE Maintenance (14 min), FHWA/LTAP, 1997.

Discusses the importance of extending the life of pavements. Includes an overview of techniques and training, improved planning, and funding. Techniques range from bituminous crack sealing to thin asphalt overlays to dowel bar retrofits.

Reconstruction of New York State Thruway I-95 #12 (18 min), Portland Cement Association.

Discusses reconstruction of existing PCC pavement with recycling options.

Recycled Concrete “D” Cracked

Pavement #5 (15 min), Portland Cement Association. Discusses the reasons for the consideration of concrete recycling and indicates savings of \$600,000 over conventional methods of construction on a project in Minnesota.

Recycling Continuously Reinforced Concrete Pavement on I-29 in North

Dakota #8 (15 min), Portland Cement Association. Deals with recycling continuously-reinforced concrete pavement to use as aggregate for new concrete pavement.

Rehabilitation of Portland Cement Concrete Pavements Using Hot Mix Asphalt Overlays (18 min),

NAPA/Asphalt Association, 1993. Four methods of using HMA overlays to improve deteriorated Portland cement concrete are presented.

Repair of Depressions, Rutting and Corrugations (13 min), International Road Federation.

Discusses leveling and overlaying with corrugation repair to improve skid resistance for vehicles.

Reparacion de Hombros O Banquinas de Grava (11 min), Utah DOT, 1993.

(Edge Rut Repair and Grade Gravel Shoulder).

Reparacion de la Base (Base Repair) (12 min).

Reparacion del Pavimento Asfaltico (Bituminous Surface Placement) (9 min).

Reparacion Permanente de Baches (Permanent Pot Hole Patching) (16 min).

Reparacion Provisional de Baches (Temporary Pot Hole Patching) (8 min).

Restauracion del Perfil en Carreteras Asfalticas (Lane Leveling Bituminous Surface) (11 min).

Right Road, The (14 min), E.D. Etnyre & Company. Discusses the advances in equipment and technologies used in the chip-seal method of road resurfacing.

► Road Repair: Do the Right Thing at the Right Time (21:30 min), MN DOT/LRRB, 9/1991.

Describes causes of pavement breakup, such as weather, aging, and vehicle weight, as well as basic information on pavement materials. This is non-technical, explained from a laymen’s point of view, for commissioners or the general public.

Scrub Seal (6 min), Missouri DOT, 1998. Demonstrates the scrub seal process for pavement preventative maintenance—a strategy intended to arrest light deterioration, retard progressive failures, and reduce the need for routine maintenance.

Sealcoating: A Matter of Science and Skill (17 min), Minnesota Local Road Research Board, 1993.

Sealcoating asphalt pavements can help reduce deterioration due to weather, traffic and water. This video discusses various types of sealcoats and their applications.

Sealing Cracks (8 min), Utah DOT, 1993.

Selective Pavement Rehabilitation

(34 min), Video University Productions, 1992. This video is from a seminar covering various advantages of milling and techniques involved.

Sellado de Grietas Y Fisuras (Sealing Cracks) (8 min).

SHRP Innovations: Pavement Maintenance and Worker Safety

(16 min), SHRP, 1993. This provides a one-year follow-up to the “Finding Better Ways” video on SHRP innovations in pavement repair. Also reviews new work zone safety devices such as crash cushions, rumble strips, sirens, and flashing stop/slow sign.

Single and Multiple Surface

Treatments (14 min), International Road Federation, 1988. Shows treatments for holes, slipping and loosened aggregate.

Small Cold Planer Inlay Patching

(17 min), Oregon DOT. Demonstrates the techniques used for large cold planer inlay patching, but for smaller areas.

Superpave: Asphalt Pavements that

Perform (5 min), SHRP, 1992. Provides a brief overview of FHWA’s Strategic Highway Research Program (SHRP) and Superpave.

Technical Advancements for Maintenance Workers, Maintenance

Managers and Work Crews (15 min),

SHRP. Discusses what SHRP is doing to improve methods of maintaining roads and to protect the workers who maintain these roads.

Technology Update: ROAD OYL Resin Modified Emulsion (26 min), Soil Stabilization Products Company, Inc., 1993.

Temporary Pothole Patching (8 min), Utah DOT, 1993. Covers patching when road safety is the major concern. Covers setting up a work zone, materials needed, and how to fill the pot hole.

Tied Concrete Shoulder, I-20 South Carolina #4, A (18 min), Portland Cement Association. This project involves the undersealing of existing concrete pavement on I-20 and the full-depth repair of some 800 square yard of pavement.

Ultra-Thin Whitetopping: Today's Choice for Durable Pavement (8 min), ACPA & NRCA, no date. Describes a new pavement overlay, Ultra-Thin Whitetopping, that looks like concrete, cures fast, goes down easy, and is economical. This pavement rehab material is ideal for city streets, local volume roads, parking areas and intersections.

Unbonded Overlay, I-70 Ohio #9 (15 min), Portland Cement Association. Shows procedures used for the rehabilitation of old pavement and the placing of new, as well as handling traffic throughout the project.

Uses of Asphalt-Rubber (12 min), FHWA. Describes how scrap tires can be recycled into an improved road building material.

Utility Cut Repair: Doing It Right (11 min), Minnesota Local Research Brd, 1996. The main goal of this video is to increase the quality of workmanship associated with making and repairing utility cuts.

Utility Cuts in Paved Roads, Parts 1 and 2 (45 min), LTAP, 1997. Explains the relationship between roadways and utilities. It also provides ways to minimize utility cuts into pavements.

Whitetopping I-80 #11 (15 min), Portland Cement Association. Shows the construction of 8" minimum depth concrete overlay on existing asphalt roadway.

PAVEMENTS: management

Everyone Pays for Potholes (27 min), Cornell Local Roads Program, 1985.

► **Guidelines for Spring Highway Use** (26 min), Washington State DOT. This video provides detailed information to help provide guidelines for establishing pavement weight restriction policies. An excellent production.

Highway Management Series, Tape 1 (87 min), International Rds Fed, 1997. Defines work authorization and scheduling, levels of scheduling, work load distribution, and scheduling procedures. The video covers three decision support systems—Pavement Management, Bridge Management, and Maintenance Management.

Highway Management Series, Tape 2 (101 min), International Rds Fed, 1997. Examines a typical Maintenance Management System and its six basic elements. It also discusses how maintenance standards are created and used, and how to create a work program and a performance budget.

Introduction to Street Scene Management Systems: Executive Director (6 min), Institute of Transportation Engineers. Discusses the street management system and its importance. The system should be continuous, comprehensive and systematic. With good management tools, many of the expected problems can be avoided.

Maintenance Management System (35 min), FHWA. Discusses how to maintain the streets efficiently.

Pavement Management (17 min), USDOT, 1978. Discusses various areas to address in implementing an effective pavement management program.

Pavement Management for Local Decision Makers (113 min), U. of California T2 Center, 1995. Discusses the benefits of pavement management systems, California requirements, FHWA requirements, and reports available on this topic.

Pavement Management Systems for Local Administrators (18 min), Arizona State University, 1990. Looks at the important roles that pavement management systems play in local agencies and how PMS will continue to grow in importance in the near future.

Pennsylvania Roadway Management System (21 min), FHWA. Describes the Pennsylvania Roadway Management System that coordinates various stand-alone computer-based data systems, including bridge and pavement management systems, CADD, NPMS, etc.

Roadway Maintenance Cost Analysis Parts 1 and 2 (50 min), Montana State University. Parts 1 and 2 deal with costs for equipment, maintenance, operation and deferred maintenance.

Roadway Maintenance Cost Analysis Parts 3 and 4 (50 min), Montana State University. Parts 3 and 4 show a technique for presenting budget data to county commissions and tips on economic decision making.

South Dakota Road Profiler, The (8 min), South Dakota DOT/Training, 1989. Looks at how South Dakota uses an automated pavement system, "Road Profiler," to upgrade their evaluation of overall pavement condition.

Stressing Our Future (9 min), Iowa DOT, 1997. Because farm vehicles do not have to follow weight guidelines, vehicles with heavy axel weights are damaging local roads and bridges. This video discusses this problem and one county's solution—billing the farm companies that damaged the roads.

Your Tax Dollars and Roads (25 min), Maine Local Roads Center, 1992. Panel discussion about different types of pavement maintenance programs.

SNOW PLOWING & WINTER OPERATIONS

Anatomy of a Winter Storm (10 min), Minnesota DOT. Shows the progress of a major winter storm affecting Minnesota over a 24-hour period. Intended for driver education classes.

Anti-Icing for Maintenance Personnel (13 min), FHWA. Describes the equipment, personnel and strategies necessary for anti-icing. Also covers procedures and materials, properties of different chemicals and how to use various chemicals.

Chemical Deicer Testing (11 min), Washington State DOT. Describes various deicer products tested at different locations in Washington. Most of the applications were with sand.

CMA Highway Training Video (10 min), Chevron Chemical Co. Discusses using calcium magnesium acetate (CMA or Ice-B-Gon), an alternative to salt, emphasizing the major differences and how CMA is better for the environment.

Cold Weather Effects (22 min), Caterpillar. Discusses the effect cold weather has on Caterpillar engines, including fluids, metal components, rubber and plastic.

Cold Weather Starting and Operation (24 min), Caterpillar. This black and white video demonstrates pre-start-up inspection, start-up and warm-up procedures for engines, as well as turning off and cooling down procedures.

Driving in Bad Weather © (9 min), AAA Foundation for Traffic Safety, 1994. Using the setting of a television newscast, this video shows the blinding effects of fog, dust, smoke, rain, snow, and ice. The video stresses the need to slow down to maintain control or get off the road safely in adverse conditions.

Effective Snow Fences, parts 1 and 2 (21 min), SHRP. Part 1 covers the benefits of snow fences and is directed toward chief administrative officers. Part

2 covers the key elements of snow fences and is directed toward technical and operational staff.

Equipment Servicing for Winter Operations (part of Job Safety Analysis series) (10 min), PA DOT, 1993. Outlines driving with caution and proper clothing for the job, controlling vehicle movement on and off the road, and other safety measures.

Evaluation Procedures for Deicing Chemicals (10 min), SHRP, 1993. Outlines and describes the need for evaluation tests and aids in understanding how to perform the tests.

Good Winter Road Maintenance (9 min), The Salt Institute. Shows how much damage severe winter can bring to people driving on the road and the effective measures to control it. This video is intended to help maintenance personnel.

Highway Sander Calibration (12 min), Utah DOT, 1993. The annual fall calibration for highway sanders is demonstrated in detail. Necessary equipment is shown, then the calibration procedure is walked through step-by-step, following the Utah calibration worksheet.

Highway Sanders (13 min), Utah DOT, 1993. Demonstrates the use and care of a truck-mounted hydraulic sander for distributing de-icing materials. Walks you through daily maintenance checks, focusing on oil levels, the dump box, and the spinner.

Hook-up of the Sander (7 min), Minnesota DOT. Describes how to use a sander in winter operations.

Hook-up of the Snowplow (8 min), Minnesota DOT. Describes how to use a snowplow.

ICE-B-GON Product Video (10 min), Chevron Chemical Company, no date. Describes how the use of salt on pavements during snow storms corrodes the roads. ICE-B-GON is a non-corrosive alternative to using salt.

Installation of Snow Scoop (13 min), University of Wyoming, 1992. Describes

the installation and concepts behind a snow scoop prototype. Helpful in designing and installing a snow scoop.

Kansas Chapter APWA 1999 Snow Roadeo (16 min), Kansas Chapter APWA, 1999. Describes the activities at the first snow roadeo of the APWA's Kansas Chapter and shows a front loader, truck snow plow, and motorgrader maneuvering through the competition's obstacle courses.

KDOT Snow Roadeo (5 min), Kansas DOT, 1991. Shows footage of a snow roadeo contest. The purpose the roadeo is to improve operations, knowledge and skills of snow removal.

Liquid Roadway Deicing (7 min), Connecticut DOT, 1978. Discusses successful results using brine water to de-ice roads and highways in Connecticut.

New Generation of Snow and Ice Control, The (8 min), FHWA, 1999. Promotes the use of road weather information systems (RWIS) and anti-icing for effective snow and ice control.

Planning and Organizing for the Snow Storm, Introduction to Winter Operations (12 min), Pennsylvania Department of Transportation, 1987. This training tape was made for personnel in Pennsylvania who are responsible for managing snow removal from roadways. It includes a checklist of things that need to be done to plan and prepare for efficient snow removal.

Planning and Organizing for the Winter Season (8 min), Pennsylvania DOT, 1983. Shows steps for getting ready for winter.

Plow Snow and Apply Salt Part 1 (10 min), Utah DOT, 1993. Covers equipment and supplies, knowing your assigned route and types of service.

Plow Snow and Apply Salt Part 2 (17 min), Utah DOT, 1993. Covers wet and dry snow, applying ice control materials, plowing procedures and clean-up.

Plows of the Future (8 min), SHRP Program, FHWA. Describes the develop-

ment and benefits of the SHRP snow plow configurations. Benefits include reduced energy cost, improved safety for motorists by reduced snow cloud formation and improved visibility.

Ready, Set, Winter: Driving Safely on Ice and Snow © (13 min), AAA, 1996. A brief overview of the basics of winter driving for single-family cars. Discusses how to prepare the vehicle for winter driving, what to watch out for and steps to take if you encounter trouble. Includes a summary facilitator's guide.

Response to Winter (21 min), Pennsylvania DOT, 1993. Discusses how the Pennsylvania DOT determines road priorities and levels of service during winter road maintenance.

Road Traffic in Winter Project (12 min), Finnish Technology Transfer Center. Discusses problems associated with the use of salt and studded tires on roads in Finland.

Safety Restoration Snow Removal: Guidelines (25 min), USDOT/FHWA. Describes operation and maintenance during post-snow clean up.

Salt—The Sensible Deicer (15 min), International Road Federation. Discusses the use of salt during severe weather conditions.

Snow and Ice Control (13 min), National Assoc of County Engineers. Shows methods of snow and ice removal such as how to safely and efficiently use snow fences and snow plows, anti ice procedures, deicing chemicals, and weather information systems.

Snow Fighter's Rodeo (9 min), Minnesota DOT. Conducted to revive skills and demonstrate talents, the rodeo tests 8 skills based on the standard snow plowing competition of APWA. It shows a step-by-step procedure to prepare and conduct a rodeo.

Snow Fighting From A to Z (73 min), Salt Institute. A collection of three videos used for training— "The Snowfighters," "Salt: The Best Deicer," and "Salt: The Essence of Life."

Snow Plow Driving (14 min), Central Automotive Division. Instructional tape on the operation of the snow plow.

Snow Removal on Iowa's Secondary Roads and Snowfighters: Quiet Patriots (45 min), Iowa DOT. This double feature video demonstrates the proper game plan in the removal of snow from roads and highways. The second feature describes the snowfighter's job and mission in the community.

Snowblast Blower Operation (10 min), Central Automotive Division. Covers operation and use of the snowblast blower.

Snowfighters, The (25 min), The Salt Institute, 1982. Pre-winter staffing inspection & elimination of roadside obstructions, & maintenance inspection of snowfighting equipment are introduced, along with timing of plowing & salt applications.

Snowplow & Spreader Operation (52 min), Nebraska DOT. Covers operation and maintenance of the snowplow and spreader on a dump truck.

Snowplow Safety (23 min), National Safety Council, 1995. Presents collision prevention techniques for snowplow drivers. Discusses equipment inspection, truck positioning, scanning, mirror use, and defensive driving techniques.

Staying Ahead of the Storm: Road Weather Information Systems (21 min), SHRP, 1992. Different elements of a weather information system are discussed, including pavement condition monitors and weather forecasts, and how these are integrated into a complete system.

Straight Blade Snow Plow Parts 1 and 2 (20 min), Utah DOT, 1993. Shows how to mount the plow on a dumptruck and how to remove & store it. Daily preventive measures checks are shown. Part 2 demonstrates snowplowing, focusing on speed, direction & positioning, and shows how to change the plow angle.

Thoughts on Cold Weather Equipment (32 min), Kansas DOT,

1993. Some of the snow removal equipment and materials used by Kansas DOT are featured.

Using Snow Plows on Motorgraders (16 min), FHWA/LTAP. Covers the basics of snow plow attachment and operation. Discusses 3 kinds of snow plows: the front single plow, the wing plow and the V plow, as well as 4 types of motorgraders.

Verglimit Project Profile (89 min), PK Distributing, USA. Discusses verglimit ice retardant pavement, illustrated by showing a project on Tappan Zee bridge, which crosses the Hudson River.

Verglimit: Ice-Retardant Pavement; Construction Guidelines (9 min), PK Distributing, USA. Discusses verglimit ice retardant pavement.

Wetted Salt © (19 min), DOW Chemical Co., 1988. Explains how calcium chloride works to melt snow and ice faster and at lower temperatures than plain salt.

What Is Anti-Icing? (9 min), FHWA/USDOT. Describes anti-icing and the benefits in cost and efficiency over deicing.

Winter Driving © (24 min), National Safety Council. In this drivers' ed video, the Cleavers show how to drive in winter. Wax nostalgic and learn a few tips at the same time.

Winter Operation, Planning and Organizing and Low-Volume Roads (41 min), Pennsylvania DOT. Three videos that address a wide range of aspects of winter road operations.

Winter Operations (part of Job Safety Analysis series) (9 min), PA DOT, 1993. Provides eight safety steps for road work crews to follow in winter operations. Good training guide or refresher.

Working in Winter—Pros Do It Right © (75 min), Ontario Ministry of Trans, 1990. Snow Plowing (27 min), Salt and Sand Spreading (28 min) and Sidewalk Maintenance (20 min).

TORT LIABILITY

Best Defense is a Good Road, The (15 min), USDOT/ FHWA, 1989. Discusses tort liability problems facing federal, state and local agencies today. Methods of protecting the agency from claims are given.

Caution: Litigation Ahead: The Road to Effective Risk Management (25 min), FHWA RD&T. The goal of this presentation is to motivate state and local highway officials to implement effective risk management programs to improve highway safety and minimize tort liability.

Deposition, The (17 min), Pennsylvania DOT, 1991. Shows how to deal with appearing at a deposition. The purpose of a deposition is to gather information, and this video shows how to tell attorneys what you know without volunteering unnecessary information.

Environmental Protection Issues (15 min), National Coop Highway Research Program, 1995. Argues that everyone should be aware of environmental laws because breaking them can cost millions.

Examples of Tort Related Law Suits Risk Management to Reduce Roadway Tort Liability, Section 4 (35 min), TX DOT, 1988. The speaker in this video discusses different lawsuits brought about by improper design of roads, ramps, etc. Lecture format.

Four Video Programs on Tort Liability (153 min), Pennsylvania TAP. This video is made up of four parts, including background information on tort liability and local governments, a mock trial, a lecture on how to give a deposition, and a short summary on the importance of tort liability.

How to Give a Deposition (17 min), PA DOT, 1991. Provides general guidelines and advice on how to behave at a deposition. Not a mock deposition. Makes note of tactics used by lawyers to spin information.

Local Government on Trial, Part 1: The Background (41 min), PA Local Roads Program, 1995. Describes the various aspects of a court case—how it proceeds from the time of an accident through the complaint discovery process, the courtroom proceedings and jury decisions.

Local Government on Trial, Part 2, The Trial (90 min), PA Local Roads Program, 1995. Shows a mock trial involving a local government sued because of a highway accident in Pennsylvania. Covers unsafe signs and markings, line striping, edge drop-off, shoulder paving, and driving safety.

Reducing Risks of Tort Liability (23 min), KDOT. Unique problems are faced by local agencies' low-volume roads with small maintenance budgets. Vicky Johnson from KDOT discusses how to design signing, among other topics, to avoid liability.

Risk Management to Reduce Roadway Tort Liability, Section 1 Introduction (23 min), Texas Dept of Highways & Public Transportation. These videos are designed to help local government offices develop a risk management program to reduce roadway tort liability.

Risk Management to Reduce Roadway Tort Liability, Section 3 Negligence and Liability (52 min), Texas Dept of Highways & Public Tran. Deals with responsibilities that highway departments have in protecting public and worker safety.

Risk Management to Reduce Roadway Tort Liability, Section 4 Examples of Tort Related Lawsuits (35 min), Texas Dept of Highways & Public Tran. Highlights some actual lawsuits involving construction sites, signing and road conditions, and more.

Risk Management to Reduce Roadway Tort Liability, Section 5 High Risk Areas (Part 1 & 2) (102 min), Texas Dept of Highways & Public Tran. Discusses various construction areas that are high risk when it comes to safety.

Risk Management to Reduce Roadway Tort Liability, Section 6 Methods of Reducing Risk of Roadway Tort Liability (77 min), Texas Department of Highways & Public Transportation. Suggests ways highway departments can reduce their liability risks.

Risk Management to Reduce Roadway Tort Liability, Section 6, cont., and Section 7, Data Collection Program (48 min), Texas Dept of Highways & Public Tran. Discusses ways to reduce liability risks and collecting information.

Risk Management to Reduce Roadway Tort Liability, Section 8 Accident Reduction Program (Part 1 & 2) (87 min), Texas Dept of Highways & Public Tran. Discusses ways to reduce accidents.

Risk Management to Reduce Roadway Tort Liability, Section 9 The Effects of Alcohol & Other Drugs on Drivers (Part 1 & 2); Section 10 Programming Roadway Improvements (Part 1 & 2) (103 min), Texas Dept of Highways & Public Tran. Section 9 discusses alcohol and drug use. Section 10 discusses programming roadway improvements.

Tort Liability (47 min), Minnesota DOT. Discusses tort liability and local jurisdiction responsibility, with respect to design and operation of transportation facilities.

Tort Liability—A New Perspective (20 min), FHWA. Discusses the governmental agency's responsibilities regarding tort liability. This video covers all the important aspects resulting from a tort liability lawsuits.

Tort Liability—Mock Trial (35 min), FHWA, 10/1991. The FHWA conducts a mock trial that examines tort liability on highways based on an actual case in Grand Rapids, SC.

Tort Teleconference Part 1 (83 min), RTAP. This video is Part 1 of a two-part video series that gives a very in-depth look at the subject of tort liability and

how government agencies of all sizes can minimize liability.

Tort Teleconference Part 2 (83 min), RTAP. Part 2 of a two-part video series. This segment discusses the planning of a safety program, work zone traffic control, and commercial driver's license.

Torts are Everybody's Business (5 min), PA DOT, 1992. Gives a brief overview of civil suits faced by local roads agencies due to wrongful injuries on roadways.

Transportation Engineer as a Court Witness, The (56 min), ITE. Describes the role of the transportation engineer as a court witness.

TRAFFIC SAFETY: signals, signs, markings & railings

ADIEM: Portable Concrete Barrier Terminal (5 min), Syro Steel Company, no date. Discusses Syro's ADIEM portable concrete barrier terminals that give way to absorb a car's impact. Also covers a glare protection system, Glarefoil, that reduces nighttime glare of car headlights.

Advanced Traffic Signal Systems Technology Workshop, Session 1: Traffic Signal System Configuration and Selection (43 min), Iowa Transportation Center, 1994. Session 1 of 4 half-day sessions on traffic signal technology, presented via satellite downlink.

Advanced Traffic Signal Systems Technology Workshop, Session 2: Vehicle Detection Tape 1 & 2 (2 hrs), Iowa Transportation Center, 1994. Covers traffic signal technology. Topics covered included inductive loop detectors, detector technology in traffic signal systems, detector placement, and innovation in detector use and capabilities.

Advanced Traffic Signal Systems Technology Workshop, Session 3: Traffic Signal System Operation and Maintenance, Iowa Transportation Center, 1994. Covers data collection, signal timing, MOEs and monitoring scheduled and random events.

Advanced Traffic Signal Systems Technology Workshop, Session 4: Traffic Signal System Communications Tape 1 & 2, Iowa Transportation Center, 1994. Covers the history, advantages, disadvantages, special equipment, and relative cost of different types of communications used in traffic signal systems.

► **ATSSA: Leading the Way to Safer Roads** (10 min), ATTSA-American Traffic Safety Services Association, 1999. A promotional video in which ATTSA members discuss the advantages of being a part of the organization and how transportation professionals can become members. ATTSA is concerned with roadway and work zone safety.

Automated Milepoint Log (18 min), Oregon State Highway Division. Milepoints and their attributes are described on this program for an Automated Milepoint log.

Better Inductive Loop Detectors (15 min), FHWA. Presents a summary of state-of-the-art procedures for loop detector installation.

Breakaway Sign Program (12 min), New Jersey DOT, 1991. Discusses how to assemble large round mounted signs and shows crash tests. The accompanying manual shows design function and construction.

Cable Guiderail Removal (part of Job Safety Analysis series) (6 min), PA DOT, 1994. Covers the basics of cable guiderail removal with a focus on job preparation, safety precautions, and careful removal.

Commentary Driving Program, Part 1: Kansas Low Volume Roads Manual (33 min), KU and KSU (a TASK project), 1993. Using overheads, Bob Smith guides viewers through various sections of the *Kansas LVR Manual*.

Commentary Driving Program, Part 2: Pavement Maintenance Training (30 min), KU and KSU (a TASK project), 1988. Bob Smith and Tom Mulinazzi discuss the commentary driving process of determining road main-

tenance and signing according to reasonable driver expectation. They drive and evaluate several paved and unpaved roads and discuss ideas for how to better maintain them. Placement of signs for driving safety is also shared.

Commentary Driving Program, Part 3: A Self-Taught Video (1:21 hr), KU and KSU (a TASK project), 1988. This self-paced video with workbook shows the viewer how to conduct a commentary driving process for determining road maintenance and signing based on driver expectancy. Several signing situations on various roads are presented.

D.O.T. Safer Roadside (17 min), Washington State DOT, 1993. Discusses Washington State's policy for controlling utility use of highway right-of-way.

► **Danger Signs** (9 min), USDOT/FHWA/ATSSA, 2000. Shows the consequences of vandalizing road signs. Discusses what action to take if a bystander finds a vandalized sign. Gives specific court cases dealing with this.

► **Demonstration of Milled Rumble Strips on Asphalt Shoulders in the State of Kansas** (6:30 min), Kansas DOT, 1999. Demonstrates the use of a computer-controlled milling machine and discusses the benefits of milled rumble strips for drivers who drift onto the shoulder of a road.

EIS: Your All Hazards Solution (7 min), EIS International, 1995. Presents the idea that everyone needs to take responsibility for controlling hazards, not just the government. Advance preparation is key.

Establishing a Realistic Speed Limit (11 min), State of Michigan PD, DOT & County Road Commission, 1989. Explores the reasons for a speed limit, the method at which to arrive at the speed, and the complications when the incorrect speed limit is established.

For Safety's Sake V-Lock Sign Base (11 min), Wyoming T2. Discusses the V-Lock sign support system, crash testing and covers hazards and treatments.

Guardrail Installation and Repair (19 min), Northwest & Alaska T2 Centers. Shows the various types and designs of guardrails. Emphasizes that a guardrail is a good tool if correctly used but can be a hazard. The video informs the viewer of potential advantages and disadvantages of various types of guardrails.

Guardrail Maintenance (15 min), Utah DOT, 1993. Examines maintenance procedures for three types of guardrail installations. Covers removing damaged components, hanging new rail, and replacing posts. Safety is stressed.

Highway Safety Improvement Program Management (44 min), FHWA. Explains how traffic signs and signals have reduced highway fatality rates during the last 20 years.

Making Safer Roads (12 min), Insurance Institute for Highway Safety, 1995. Discusses the dangers of hitting a roadside hazard like a tree, guardrail, utility pole, or bridge support.

Markings and Islands (19 min), International Road Federation, 1994. The purposes of markings & islands are explained. Pavement markings, delineators, object markings and colored pavements are reviewed and described. Both curbed & non-curbed islands are covered, including pedestrian refuges & tumble sections.

New Directions in Sign Management (17 min), ATSSA. Describes how local jurisdictions can develop an effective sign maintenance program, including inventory, evaluation and scheduled replacement. Designed for cities, counties and other local jurisdictions who want to improve their sign management.

Nuts and Bolts of Jolts, The (23 min), FHWA/USDOT. Describes events that can effect traffic control devices, such as lightning, broadcast systems, and normal wear. Maintenance procedures, electrical devices and shielding are discussed.

Open Roads: A Look at Freeway Incident Management (19 min), USDOT/FHWA, 1991. Directed toward

people who manage freeway accidents and discusses elements of freeway management, what happens when there is an accident, and how to develop management plans.

Pavement Marking Inspection: Thermoplastic (21 min), ATSSA. Outlines the role of construction inspectors during the application of thermoplastic pavement marking materials and equipment, general responsibilities and 10 inspection tips.

Pavement Marking Inspection: Traffic Paint (15 min), ATSSA. Discusses materials used for pavement marking, responsibilities of an inspector, and major inspection considerations.

Pavement Marking Inspection: Two-Part Epoxy © (20 min), ATSSA. Considers production, materials and equipment, responsibilities and 10 inspection tips.

Polyurethane Coatings: Performance, Quality, Safety (23 min), Mobay Corporation, 1989. This excellent video addresses the benefits, potential hazards, and safety measures to be taken when working with polyurethane paints.

Portable Lane Control Systems (12 min), O.M.J.C. Signal, Inc. A promotional video shows how everything needed for traffic control can be found on one portable trailer, eliminating the need for a flagger or outside road crews.

Positive Signs of Life (18 min), Countryman Klang Inc. Discusses the importance of traffic control signs and their conformity with the MUTCD. It stresses the need for a sign to be uniform, standard and effective.

Preventing Disaster at the Crossing (18 min), Idaho Department of Law Enforcement. Shows school bus drivers the potential for danger at highway-rail crossings and teaches drivers proper safety precautions. A ten-step National Safety Council procedure for safer bus driving actions at rail highway crossings is outlined.

Quickchange Moveable Barrier: General Information (9 min), Barrier Systems, Inc., 1988. Introduces a machine designed to move concrete barriers for quick lane changes and construction worker safety while maintaining traffic flow.

Quickchange Moveable Barrier—I-30 Contraflow HOV Lane (9 min), Barrier Systems, Inc., 1994. Demonstrates several other advantages of the quickchange moveable barrier system and how it can alleviate traffic congestion at key areas.

Ramp Meters: Signals for Safety (13 min), Washington DOT. Ramp meters allow for easier merging of autos from on-ramps to freeways and reduce the chance of accidents that occur when too many people try to merge at once. Different signals and applications are discussed.

Red Light Running (11 min), FHWA, 1994. Designed to educate the public on the dangers of running red lights and examines driver behaviors and ideas on the subject.

Right Before Your Eyes (15 min), ATSSA, 1993. The purpose of this video is to help increase public awareness of the important role pavement markings play in traffic safety.

Safer Roadside, The (17 min), Washington State DOT, 1988. Shows how the state of Washington is providing citizens with safer streets and highways by making safer clear zones. Also shown is how the Washington DOT and utility companies have cooperated in finding ways acceptable to both parties.

Safety Feature for Local Roads and Streets, Tape 1 (55 min), SHRP. Discusses wet weather accident problems, side slope and ditch tests, roadside culverts and crossroads incline tests, small sign supports, and breakaway light poles.

Safety Feature for Local Roads and Streets, Tape 2 (1 hr), FHWA. A continuation of crash tests, covering traffic barriers of slope crash test, guardrail end treatment, engineering for highway safe-

ty, bridge railing retrofit, and California freeway crash cushion accidents.

School Zone Safety (22 min), UTAH DOT/Utah T2 Center, 1992. Discusses cross guard equipment, traffic control devices, and proper procedures to set up a safe school zone crossing.

Setting Speed Limits © (10 min), Vermont Local Rds, 1994. Discusses how to conduct a traffic engineering survey, which is used to find reasonable and safe speed limits.

Sign Maintenance (part of Job Safety Analysis series) (9 min), PA DOT, 1994. Provides a general look at sign maintenance, emphasizing job preparation such as First Aid kits, knowledge of the area, and proper clothing.

Sign Maintenance and Installation (27 min), FHWA, 1995. Discusses the importance of a good sign maintenance program, proper sign installation, safety practices and record keeping procedures.

Special Use Traffic Controls (17 min), International Road Federation/FHWA. Covers traffic control devices that address hazardous conditions: hazard I.D. & speed beacons, lane use control signals, pedestrian signals, freeway ramp control signals, narrow bridge or tunnel signals, traffic controls for HOV facilities.

Split Second Decision (11 min), Countryman Klang Inc. Tells how important that second is when we make a decision to pass, and how the yellow "No Passing Zone" pennant sign provides the best solution to this problem, day and night.

Stop and Think-A Campaign Against Traffic Sign Vandalism (11 min), Pierce County Public Works and Utilities. Describes the safety threats associated with damaged signs and cost for replacing downed and damaged signs. Describes typical vandalism and why it is so important and costly to replace signs and signals.

Striper's Survival Guide, A (12 min), American Traffic Safety Services Association. Demonstrates how to pro-

tect yourself when working around striping equipment. Also discussed are materials, personal safety, and traffic control.

Technical Advancements for Maintenance Workers (for administrators) (12 min), Strategic Highway Research Program. Describes the purpose of the Strategic Highway Research Program and the many innovative ideas it has to improve overall traffic control and safety on U.S. roads.

Testing and Field Inspection of Roadway Delineation (36 min), Graham-Migiletz Enterprises, Inc. Shows how to develop a field inspection program including inspection points, application of delineation marks, maintenance and inspection of various pavement markings including plastics, paints and signs.

Traffic Barriers—3 Programs (46:27 min), USDOT/FHWA. This tape includes 3 of 5 short programs developed by the FHWA on traffic barriers: 1)an overview, 2)w-beam guardrails and 3)end treatments. Shows proper installation and safety guidelines.

Traffic Control for Schools, Railroad Crossings, and Bicycle Facilities (24 min), International Road Federation/FHWA, 1994.

Traffic Control Signals at Intersections (18 min), International Road Federation/FHWA, 1994. This is a basic introduction to how engineers determine if a signal is needed and the basic principles of a signal controller phasing & traffic signal timing. Intersection studies are briefly described and types of warrants for signalization are given.

Traffic Control: What Works? (14 min), Minnesota Local Road Research Board, 1996. Offers information on how public officials develop reasonable, research-based traffic control strategies and apply engineering judgement in selecting traffic control devices.

Traffic Detector Video Training Course, Sections 1, 2, 3, 4 (1:19 hr), FHWA, 1992. Discusses how different

traffic detectors work, how they are installed, designed and maintained.

Traffic Safety Series (59 min), FHWA/Office of International Programs, 1997. Outlines a system for identifying and solving highway safety problems known as the Highway Safety Improvement Program Management System. This system identifies real problems instead of perceptions.

Traffic Sign Inspection and Maintenance (21 min), International Road Federation/FHWA, 1995. Sign management is introduced. Sign maintenance facilities, field equipment and materials for sign inspection are described. Several measures of sign performance are also discussed, as well as sign inventory.

Traffic Sign Placement and Location (22 min), International Road Federation/FHWA, 1994. The principles of lateral and vertical placement of signs and their location in advance of the target traffic conditions are reviewed. Urban, rural and freeway areas are covered, as well as a brief discussion of warning sign placement.

Traffic Signal Systems: Go for the Green (28 min), ITE. An overview of understanding traffic signals and equipment as well as upgrading and better utilization of interconnection.

Where Does The Road Go? (5 min), Countryman Klang Inc. Discusses various existing and potential alignment hazards, particularly at night and how to overcome them through positive guidance of hazard-identifying signs.

Wooden Fence and Guardrail Repair (13 min), Connecticut DOT, 1987. On-site repair of wooden fences and guardrails is featured including both temporary and permanent repair procedures. Also discussed are DOT safety guidelines that ensure safety for both workers and motorists.

Worldwide Traffic Sign System Overview (26 min), International Road Federation/FHWA, 1994. Introduces the three roadway sign systems in use in the

U.S., Europe, and Latin America. Intended for travelers and for those seeking to modify their own traffic sign systems. Specifications are given in metric units.

TRANSIT

Accessible Guidelines: Americans With Disabilities Act (20 min), Dept. of Education/Access Board, 1993. Describes the physical aspects of accessibility in public buildings and facilities for consideration in design.

Accessible Guidelines: U.S. Architectural and Transportation Barriers Compliance Board (ATBCB) (13 min), Dept. of Education/Access Board, 1993. Discusses the requirements of federal accessibility laws in architecture, transportation and communication.

Building Quality Service: Everyone's a Customer (20 min), USDOT/FTA/RTAP, 1995. Discusses the basic concepts of quality service in rural transit systems.

Caring for an Aging Society © (56 min), Hospital Satellite Network and Age Wave, Inc. Focuses on role of the health care provider in an aging society. Topics include: Issues of an older population; the health care system and the elderly; models of care delivery; and solutions for providers.

Circle of Communication (11 min), Photographic Media Center. Discusses school transportation and the role of communication among parent, child, educator and bus drivers.

Commercial Drivers License Study Program, Amalgamated Transit Union. A package of study materials to help prepare for the CDL exam with passenger transportation and air brake endorsements. Includes video, audiotape, and study guide.

Commercial Wheelchair Lift Operation Video (15 min), The Braun Corporation, 1996. Shows how to properly operate the L211UARS, L911ARS, and L19ADA Braun wheelchair lifts.

Dare to Compare (5 min), Collins Mobile-Tech, 1997. Describes 3 different types of lifts manufactured by Collins Mobile-Tech. The benefits, functions, and features are illustrated. The video also describes other accessibility products.

Dazzling Transit Service—Going The Extra Mile (20 min), Minnesota DOT. The Minnesota DOT outlines the importance of defining customer needs in order to improve services offered by transit agencies.

Destination Excellence (32 min), Options, Inc./Utah Transit Authority, 1992. Identifies and showcases pockets of excellence in the transit industry. Twelve agencies were selected out of 200 national entries.

Drivers Education Program, Tape 1, Developmental Disabilities (80 min), White River Area Agency on Aging. These two videos are about the responsibilities, skills and abilities of bus drivers. Covers daily pre-trip inspection, driving defensively, recognition of common road signs and a preview of obstacles.

Drivers Education Program, Tape 2, The Elderly (1 hr), White River Area Agency on Aging. See description under Tape 1 of this series.

Drug Testing: Handle With Care (employee version) (22 min), National Institute on Drug Abuse. Discusses fairness of drug testing in the work place. Different methods of drug testing are discussed.

Drugs at Work (employee version) (24 min), National Institute on Drug Abuse. Shows the effects of drug use in the work place through several real-life stories.

Emergency Procedures for Rural Transit Drivers (32 min), International Support Services. Discusses preparing for sudden emergencies. It shows how to avoid an emergency by taking some very small precautionary measures.

Essential Skills for Dispatching (34 min), University Research

Corporation & Mobile-Video Productions. Discusses the responsibilities of the dispatcher, including coordinating the system and communication with the drivers.

Essential Skills for Trainers (30 min), FTA/RTAP. Discusses what training is, what a trainer does and how to create a positive environment for training employees.

Evacuating Elderly and Disabled Passengers from Public Transportation Vehicle Emergencies (46 min), UMTA, 1991. Informs drivers on how to assess an emergency situation, prevent injury to themselves and others, and the evacuation process and techniques.

Evacuation Procedures for Specialized Transportation Vehicles (18 min), Arizona DOT. Assists transit agencies serving the handicapped in developing vehicle evacuation procedures and guidelines.

Finding Solutions, employee/employer version (19 min), National Institute on Drug Abuse. Shows what businesses around the country are doing to help their employees find alternatives to drugs, alcohol and smoking.

Fire Life Safety Exercises (10 min), USDOT/Broward County. Also a demonstration of evacuation procedures from buses, but a different production.

Fire Life Safety Exercises (20 min), Transportation Safety Institute. A demonstration of evacuation procedures from buses, homes and vehicles in the event of fire or other emergencies.

FTA's Rural Transit Assistance Program (10 min), FTA/RTAP, 1992. Describes RTAP programs, including information and resources, expert help, training and materials, and instant communication.

Getting Help (employee version) (23 min), National Institute on Drug Abuse. This video focuses on Employee Assistance Programs (EAP) that include confidential alcohol and drug counseling

for the employee. Stories are told of people who, through the help of their companies and EAP, have overcome drug dependency.

Helping You Drive Safely Longer (15 min), Central Plains Area on Aging, 1995. Highlights helpful tips to improve the vision and hearing of transit operators including providing exercises for strengthening these essential senses.

Impact of Alzheimer's, The (22 min), USDOT/FTA/Project ACTION, 1993. Provides insight into Alzheimer's disease and the transit needs of those affected by it.

In Your Hands (27 min), City of Mesa, Arizona, 1987. Addresses disabilities faced by many older Americans and provides special effects to help the viewer experience sight and hearing impairment which older people commonly suffer from. Techniques are also shown on how to operate a wheelchair.

L211/L911 ARS Lift Series (5 min), Braun Corporation, 1992. Introduces Braun's L211/L911 ARS series and demonstrates use of series.

Lecture on Changing Demographics and Transit (1 hr), Mid-America Transportation Center Lecture, Distinguished Lecturer Series, 1995. Dr. Sandra Rosenbloom, an expert on the effects of changing demographics on transit, discusses declining transit use.

Lift Maintenance and Lubrication Video (20 min), The Braun Corporation, 1995. Gives instruction on maintaining and lubricating the Braun L200UARS Series Ultra IV and L900ARS Series commercial wheelchair lifts. It also describes in detail how to perform a general inspection on the lifts.

Lift Operation and Back-up (5 min), Collins Mobile-Tech Corp. Shows how to operate a wheelchair lift.

Lift Sales and Operation (5 min), Mobile-Tech, 1995. Gives step-by-step instructions on how to use the MTC-Lift. This lift is battery-operated with a manual backup system.

Lift Sales, Installation and Operation (5 min), Mobile-Tech, 1995. Promotes the purchase of wheelchair lifts manufactured by Mobile-Tech Corporation.

LIFT-U: Solid Platform Wheelchair Lift (7 min), Hogan Mfg., Inc., 1995. Identifies the proper use of and car for this solid platform wheelchair lift.

Million Dollar Fundraiser (8 min), National Hole-In-One Association, 1993. Discusses a successful fundraising strategy using a golfing competition.

Missouri Driver Training Program: Developmental Disabilities, The Elderly, & Communication Skills, Part 1 of 3. These tapes discuss the special transportation needs of passengers with developmental disabilities and assist the student driver with the operation of an automobile, reading street signs and signals.

Missouri Driver Training Program, Parts 2 and 3 of 3 (15 min), Care Cab, Inc., 1995. See description above for Part 1 of this program..

Most Precious Cargo (11 min), Concept Productions. Discusses safety measures for drivers of vehicles for the disabled.

People Who Need People (15 min), U. of Wisconsin. Discusses transportation needs of the handicapped, elderly and the disabled.

Practice For Disaster (20 min), Valley Transit. Asserts the need for planning before a disaster strikes, including who will give orders and responsibilities.

Pre-trip Inspection: Dodge Van (39 min), Wisconsin Rural Transit Network. Discusses a thorough examination of a Dodge van, the effects of pre-trip inspections and negligence, and how the vehicle or the driver could be unsafe.

Pre-trip Inspection: Ford Cut-Away Thomas Body (40 min), Wisconsin Rural Transit Network. Same as above video, focusing on the Ford cut-away Thomas body.

Pre-trip Inspection: GMC Commercial Cutaway Minibus (40 min), Wisconsin Rural Transit Network. Same as above video, focusing on the GMC Minibus.

Pre-trip Inspection: GMC Conventional Big Bus 60 Series (40 min), Wisconsin Rural Transit Network. Same as above video, focusing on the GMC Big Bus.

Pre-trip Inspection: GMC Forward Control Chassis (42 min), Wisconsin Rural Transit Network. Same as above video, focusing on the GMC Forward Control Chassis.

Pre-trip Vehicle Inspection: Chevrolet Forward-Control Chassis Carpenter Body (40 min), Wisconsin Rural Transit Network. Same as above video, focusing on the Chevrolet Forward-Control Chassis Carpenter Body.

Preventive Maintenance for Rural Transit (7 min), Kansas University Transportation Center, 1989. Stresses the need for good preventive maintenance practices for rural transportation programs due the unique circumstances under which they operate.

Professional Driver, The (91 min), Care Cab Transportation Services, Inc., for the Missouri DOT, 1997. Describes how to deal with passengers with different needs and how to safely and courteously transport these passengers.

Project ACTION: ADA Transportation Accessibility Reference Video (video of slide inventory) (32 min), US Department of Transportation, Federal Transit Administration/Project ACTION.

Project Soar: Getting Around (12 min), USDOT/ Fed Transit Admin/ Project ACTION of the National Easter Seals Society. Discusses the standards of equivalent service for all people and discusses awareness training for transit employees.

Proper Operation of TRANSPEC Safety Vents for Roof Ventilation and Emergency Exit, The (7 min), TRANSPEC. Shows the proper use

of TRANSPEC roof vents on transit vehicles.

Providing Public Transportation to Everyone (9 min), National Easter Seals Society/ UMTA. Provides information on how to make public services available to all in accordance with Americans with Disabilities Act regulations.

Reasonable Suspicion Training for Supervisors (23 min.), US DOT, 1996. Designed to inform designated transit personnel on making fair-reliable reasonable suspicion drug and alcohol testing referrals of covered employees performing safety-sensitive job functions.

Ride of Your Life / Children in Car Crashes (23 min and 10 min), Automotive Safety Foundation/ Penske Corp./ GEICO Corp. These two videos discuss the importance of wearing seat belts and how to properly secure children in vehicles.

Risk Management for Rural Transit Systems (45 min), FTA/RTAP/ University Corporation & META, Inc., 1993. Includes the risk management process, your risk profile, risk control, commercial insurance, risk financing alternatives, and how to make a risk management program succeed. For staff who have little experience with risk management.

Roles and Responsibilities of Transit Board Members (35 min), UMTA/ RTAP, 1991. Discusses the purpose of a board and what makes an effective board: planning, personnel, community involvement and personal planning.

Rural Transportation Assistance Program (15 min), National Highway Institute, 1989. Describes the services of RTAP, including arranging workshops, preparing useful publications and videos, and other related materials.

Safe & Secure (18 min), Kinedyne of Lawrence, 1995. Provides training and a demonstration of Kinedyne's mobility aid securement and occupant restraint systems for vehicles. It shows how to secure an occupied wheelchair in a van using Kinedyne's equipment.

Safe Ride for All: Drug-Free Transit, A (19 min), UMTA. Discusses establishing anti-drug policies, employee education and guidelines for drug testing.

Safe Transport of the Public Under the Americans with Disabilities Act (30 min), FTA/RTAP/University Research Corporation & Take One Productions, 1993. Provides an overview of the basics of the ADA, stressing good passenger relations and focusing on the driver's responsibility for learning safe and courteous responses to varied circumstances.

Safer Ride for All: Employee Assistance Programs, A (14 min), Washington DOT. Discusses the advantages of employee assistance programs, personalizing the programs for each employee, coordinating resources and determining if the employee is competent to return to work.

Serving Passengers with Disabilities (13 min.), Project ACTION of the Easter Seals Society. Suggests how drivers can help passengers with special mobility needs, sensory impairments, hearing or vision impairments, or mental or emotional disabilities.

SKAT (Southeast Kansas Area Transit) (7 min), KDOT, 1994. Describes the formation of SKAT, its purposes in Southeast Kansas, and SKAT's activities, projects, and services.

Small Transit Vehicle Inspections: Delivery, Pre-Trip and Annual Inspection Procedures (18 min), KUTC/KDOT, 1997. Discusses the importance of vehicle inspection and provides delivery, pre-trip and annual inspection procedures.

SNAAP—Safety Needs Assistance and Awareness Program (52 min), , 1995. Helps prepare drivers of public transportation vehicles to provide safe and respectful assistance to elderly passengers and to passengers with disabilities in compliance with the ADA.

STARTS (Special Transit and Rural Transit Safety) (43 min), National UMTA RTAP Program, 1988. Covers

vehicle inspection, driving safety, and passenger relations.

Substance Abuse Awareness in Rural Transit (20 min), National UMTA RTAP Program. Provides an overview of substance abuse issues in rural transit and an introduction to a substance abuse training program.

Time Has Come for the XM100, The (9 min), MOBILE-TECH Corp., 1995. Demonstrates use of the XM100 wheelchair lift, an under-vehicle lift.

Trading Places: Assisting Passengers With Special Needs (23 min), USDOT/ Federal Transit Administration, 1998. Gives drivers, dispatchers, and managers information on providing sensitive, caring, and safe transit services to elderly or disabled customers needing specialized assistance.

Transportation Coordination—A Guide to Making it Work for You (20 min), FTA, 1995. For transit managers interested in expanding and improving their transportation funding resources through coordination. Includes a study workbook.

Trooper Kathy's Top 10 Safety Tips For Volunteer Drivers (26 min), MN DOT. A state trooper presents safety tips for volunteer drivers and a short quiz to demonstrate materials learned.

Twenty Miles From Everything (17 min), American Nowak Associates. This human interest video focuses on public transportation in rural America.

Understanding The Capabilities And Needs of Special Passengers (65 min), National UMTA RTAP Program. An overview of issues to help increase the sensitivity of rural transit employees to the special needs of elderly and disabled passengers.

Volunteer and Board Development (49 min), Non-Profit Network. Covers the importance and characteristics of a good chairperson, how to recruit the right chair, how to use honorary chairs, how to find the "askers" you need, and how to reward successful volunteers.

Volunteer Driver Escorts (18 min), University of Wisconsin-Milwaukee. Discusses the duties and procedures of driver escorts who are volunteers.

Way To Go Tennessee (17 min), Tennessee DOT, 1994. Gives an overview of a successful, affordable public transportation system, utilizing vans, that operates throughout the state of Tennessee.

Wheelchair Lift Maintenance: Lifting to Safety and Reliability (20 min), KUTC, 1993. Discusses general maintenance procedures for accessibility equipment such as lifts, ramps and wheelchair securements used by rural and specialized transit providers.

Your Ticket to Safety: Bloodborne Pathogen Awareness for Transit Professionals (16 min), Iowa DOT, 1993. Provides an overview regarding the transmission of disease through body fluids for public transit system personnel, including managers, drivers, mechanics and other employees and service providers.

TRANSPORTATION ENGINEERING & PLANNING

Agri-Access Network (25 min), Pennsylvania DOT. This Pennsylvania pilot program discusses the need for improved roads and repair of deficient bridges, which alter the productivity of the driver by raising operating costs and the cost of products being transported.

Air Quality Conformity in Transportation Planning (20 min), Zapata Engineering, 1999. Gives a brief overview on guidelines local officials must follow in their transportation planning processes while adhering to the Clean Air Act & SIP.

Basics of Local Road Engineering (55 min), Cornell Local Rds & St. Michael's College/VT Transportation Info Exchange, 1983. A presentation by Lynne Irwin on how to build a good road. Design considerations covered are capacity, geometrics, drainage, pavements and safety.

Beginning Survey (1 hr), North Dakota DOT. Discusses surveying techniques using video.

Changing Rural America (25 min), USDA. This film is useful in providing background briefings to policy officials in public meetings, conferences and in the classroom. Experts review recent population and economic trends in rural areas and implications of these trends.

Construction Management Systems Series (95 min), FHWA/Office of International Programs, 1996. Provides a basic overview of a typical construction management system or CMS, identifies the basic functions of construction management, and presents information on how to develop a construction management system.

Corridor Management (12 min), Kansas DOT, 1999. Presents information on achieving land use and transportation balance to maintain private and public investment. Discusses access mgmt, traffic mgmt, land use mgmt and intergovernmental agreements.

► **East Topeka Roundabouts** (8:30 min), Kansas DOT, 2000. This video was produced to provide public information about the safety features of roundabouts. Includes animated footage of traffic entering and exiting a roundabout.

Functional Replacement of Publicly Owned Buildings is the Answer (21 min), USDOT/FHWA, 1993. Discusses a program to replace public buildings that lie in the path of new highway construction projects.

HCM for Locals (15 min), Delaware DOT. Highlights key elements in highway design and traffic analysis, including highway capacity, level of service, and characteristics of traffic flow. Definitions of words commonly used in traffic analysis are included.

How We Pay For America's Roads (12 min), NAPA/ Education Foundation Inc., 1990. The program teaches participants how roads are financed at all government levels and presents the current condition of roads and its impact.

I-394: Moving Into the Future (12 min), FHWA. Bus, car-pool lanes and ramp metering are some of the features added to I-394 in Minneapolis to improve transportation for commuters.

I-65 Video: The Road Ahead (16 min), FHWA. The pavement structure on I-65 around the Indianapolis area was rebuilt using big-rock asphalt. This video describes how this type of pavement was chosen for this application.

Improving American Roads Through International Technology Transfer (12 min), FHWA, NCHRP, AASHTD, 1/22/98. Shows the effectiveness of a program sponsored by an AASHTO committee. The committee visited other countries to examine their solutions to transportation problems in the hope that they could be applied to similar situations in America.

Infrastructure—The Big Picture (26 min), McDonnell Douglas. Covers solving the various problems of infrastructures. The components involved are planning, design, construction, operation and maintenance.

Intermodal Freight Transportation (12 min), USDOT, 1995. Discusses freight intermodalism and how Metropolitan Planning Organizations are playing a greater role in transportation planning since ISTEA was passed. The video emphasizes the need of efficient freight transportation.

Livable Neighborhoods: Rethinking Residential Streets, #1 (97 min), U. of Wisconsin-Madison, 1996. Features a panel that discusses traffic calming and some tools available for traffic control and management.

Livable Neighborhoods: Rethinking Residential Streets, #2 (110 min), University of Wisconsin-Madison, 1996. Three case studies are examined. The first is "The Defense Space Plan" conducted in Dayton, OH. The second is "The Traffic Circle" conducted in Seattle, WA. The third is a single street project called "Balliol Street" conducted in Toronto, Canada.

Major Investment Studies

Teleconference, Tapes 1 & 2 (4 hrs), National Transit Institute, 1995. Major Investment Studies (MIS) is a strategy for addressing transportation problems and solutions having potentially high cost or impacts. It represents the integration of planning and project development processes for major highway and transit projects.

Moving Beyond Auto America

(16 min), Trans2000/ EPA, 1989. Questions U.S. dependence on cars and offers alternatives.

National Conference on Passenger Transportation for Native Americans, Tapes 1 & 2

(115 min), KUTC. A two-part video series that covers a seminar held at Haskell Indian Nations University in Lawrence and discusses the public transportation needs for Native Americans.

Ramp Metering: Signal for Success

(17 min), FHWA. Explains the principles and benefits of ramp metering by showing examples of successful projects in Los Angeles, Denver, and Minneapolis. Also explains urban traffic congestion and addresses safety issues.

Roadway Design: Balancing Safety, Environment and Cost

(14 min), Minnesota, 1995. Focuses on the importance of considering these three factors when constructing or reconstructing a roadway.

Strategic Planning for State & Local Transportation Agencies

(45 min), Transportation Research Board. Discusses elements of strategic planning for state and local road agencies.

Subdivisions: A Local Dilemma

(27 min), Montana State Film & Television Department. Emphasizes the necessity of developing a master plan to ensure standards and regulations in new subdivisions.

Subsurface Utility Engineering: A Technology for the 90s

(13 min), FHWA, 1991. Explains how to provide accurate information on the horizontal and vertical locations of underground

utility facilities during the early development of highway projects.

Surveying Equipment: Engineers

Levels (36 min). A lesson for engineering students on surveying equipment such as the automatic level, the dumping level, and the Y-level, as well as leveling accessories.

Swedish Way & Sweroad

Maintenance, The (41 min). Describes how Sweroad, a group of Swedish engineers from the public and private sector, deal with the unique landscape of Sweden for transportation.

Traffic Count Data Collection

Procedures (15 min), KDOT, 1995. An instructional video for a Kansas LTAP course on traffic counting.

Traffic Plan to Live By, A

(10 min), TECS, 1994. D discusses low speed traffic control using the four-step PLAN method: review, lay-out, analyze, and navigate.

Tribal Transportation Planning; A Vision of a Better Tribal

Transportation Plan (15 min), E/E, USDOT, US Dept. of Internal Affairs, 1996. Emphasizes the importance of planning and coordinating with other transportation entities for effective tribal road systems.

Your Valley Freeways

(14 min), Arizona DOT. An informative video on freeway construction in the Phoenix, Tempe, Mesa area. It addresses public safety and environmental impact concerns over freeway construction.

UNPAVED ROADS

Blading Unpaved Roads

(22 min), National Association of County Engineers/ FHWA. Covers many basic aspects of grading rural roads. Also includes the proper procedures to be used in grading around intersections, railroad crossings, private driveways, and bridges.

Drying Aggregate, Blade Mixing, and Patching

(25 min), Montana LTAP. This

three-part video discusses drying aggregate to produce a good blade mix patching material. It helps develop skills on proper use of equipment to perform various maintenance tasks.

Dust Control 1989

(16 min), Dow Chemical Co. The video begins by describing problems created by road dust. It explains how liquid calcium chloride controls dust. It goes on to show how to repair and improve an unpaved road by blading and how to treat the road with calcium chloride.

Edge Rut Repair and Grade Gravel Shoulder

(11 min), Utah DOT, 1993. This video begins with a review of requirements for proper shoulders. Repair is shown for both major and minor rutting. Demonstrations are shown for pulling the shoulder and spreading and compacting old and new material.

Geotextile Installation on Gravel

Roads (43 min), Oklahoma T2 Center, 1989. Application of geotextiles on gravel roads is discussed. Included are explanations of mistakes to avoid and proper procedures to follow.

Lime Soil Treatment

(2 min), Chemical Lime Co. Shows the advantages of the PORTA BATCH lime slaking system.

Lime—The Versatile Stabilizer in

Construction (26 min), National Lime Association, ITE. Covers the use of lime for stabilizing highly plastic clay soils and aggregates for road building.

Low Volume Roads Series

(38 min), International Rds Fed, 1997. Addresses typical maintenance problems associated with gravel roads, maintenance activities, road and bridge inventory, work planning, labor or equipment programming, scheduling and budgeting.

Low-Volume Road Maintenance

(14 min), Pennsylvania DOT. Considers combining time, money and materials for effective maintenance. Discusses the similarities and differences of the procedures unimproved type 10, type 20 stabilized and type 30 improved or pie crust.

Maintain Non-Hard Surfaces

(15 min), Utah DOT, 1993.

Maintaining Gravel Roads in

Arkansas (29 min), The College of Engineering - U. of Arkansas. Provides a good review of the proper ways to maintain a gravel road. This could be used as a training video for those with responsibilities of maintaining gravel roads.

Maintenance of Gravel Roads

(27 min), FHWA, 1989. Describes procedures for smoothing and reshaping gravel roads. Techniques for intersections, railroad crossings, driveways, bridges, hilltops and valleys, and super-elevation in curves.

Mantenimiento de Caminos de Superficie Granular (Maintain Non-Hard Surfaces) (15 min).

Patching Unpaved Roads (11 min), International Road Federation. Discusses the process of patching unpaved roads.

Problems Associated with Gravel Roads (55 min), DOT-FHWA. Looks at the causes of gravel road problems and the best ways to prevent and correct the problems. The video also addresses the environment, materials, maintenance equipment and techniques.

Recycling Roads With Asphalt Emulsion© (22 min), The Asphalt Institute, 1970s. Highlights methods and materials to recycle low-volume road materials to construct asphalt-strengthened pavement bases. Focuses on the advantages of cold-mix recycling. Though produced in the 1970s, the methods are still valid.

Regraveling (17 min), International Road Federation. Discusses the process of regraveling roads.

Replenishing Earth and Gravel Shoulders (18 min), International Road Federation, 1988. Discusses replenishing and smoothing.

Reshaping Earth and Gravel Shoulders (15 min), International Road Federation. Covers reshaping shoulders and adjacent earth and gravel.

Road Grader Seminar With Jay

Jordan, KDOT/Lammers Video Memories, 1987.

Road Management Systems (6 min), US Army Corps of Engineers. Discusses the maintenance of unsurfaced roads and using PAVER in relation to unsurfaced road management systems.

Rural Roads: A New Approach

(27 min), Montana State Film & Television Dept., 1984. Shows how a technology transfer program in Montana has helped a local county save money by applying current technology to county roads.

Smoothing and Reshaping of Earth and Gravel Roads (20 min),

International Road Federation, 1988. Discusses techniques for smoothing and reshaping roads.

Soil Guard: Bonded Fiber Matrix

(10 min), Weyerhaeuser, 1994.

Stabilization & Dust Control of Gravel Roads with MgCl2 (12 min), Scotwood Industries. Shows how to use MgCl2 to increase stabilization and control dust in the gravel roads.

Stabilization: Holding the Roads

(22 min), ISU. Discusses stabilization of road surfaces.

Unsurfaced Road Inspection (8 min), US Army Corps of Engineers. Discusses the maintenance of unsurfaced roads. It talks about seven well-known road distresses.

Unsurfaced Road Management

(9 min), US Army Corps of Engineers. Discusses the maintenance of unsurfaced roads. It tells how to divide roads into branches and sections and then into samples. It also describes the use of Micro PAVER.

Upgrading Gravel Roads (21 min), Montana State Film & Television Department. Discusses the process of upgrading gravel roads when working with a limited budget. Shows how to work with materials that are readily available and includes reshaping and

compaction, cold recycling and maintenance advice.

VEHICLES & EQUIPMENT: safety, operation & planning

Air Compressor Operation (9 min), Utah DOT, 1993. Takes a brief look at the multi-use air compressor by demonstrating routine maintenance.

Antilock Brake Systems © (12 min), General Motor Corp, 1994. Champion motorcross and off-road race driver Rick Johnson uses his expertise to explain the operation of the Antilock Brake System on a GM truck.

Backing—You Owe it to Yourself (10 min), Pennsylvania DOT. Demonstrates good procedures in the garage, yard and at the work site to avoid backing accidents.

Breakaway Timber Utility Poles (15 min), USDOT/FHWA, 1991. Depicts a procedure used in Lexington, Ky., to retrofit existing utility poles with a breakaway device.

Bulldozer Preventative Maintenance (13 min), Utah DOT, 1993. Shows how to perform daily checks for leaks and signs of wear as well as starting procedures.

Car Care, Automotive First Aid and Safety (22 min), AAA. Part 1 examines basic car care: oil, gas, tires, brakes and bi-annual maintenance. Part 2 deals with safety and automotive first aid.

Chain Saw: Equipment Operation Series (45 min), LTRC. Discusses correct operating procedures and safety procedures of the chain saw.

Choice is Yours, The (18 min), Caterpillar. Discusses rebuilding engines and alternatives for lowering truck operation costs for the driver.

Consolidate Safety Video Tape (76 min), John Deere. Includes 10 short safety videos on vehicle and equipment use.

Crane Operation Part 1 (17 min), Utah DOT, 1993. Part 1 outlines daily preventative maintenance checks on a crane using a model called the yard runner. Emphasizes the necessity of knowing the ins and outs of a crane for safety reasons.

Crane Operation Part 2 (19 min), Utah DOT, 1993. Part 2 discusses crane operating procedures such as driving the crane to the load, rigging and lifting the load, and carrying it to its destination.

Crashing Cars: Testing for Safety (8 min), Insurance Institute. Discusses crash tests on cars used in developing safety ideas.

Don't Let Up! Anti-Lock Braking Systems (10 min), AAA Michigan, 1994. Contains footage of student drivers using ABS for the first time. Demonstrates proper procedure and usage under different road conditions.

Drilled Shaft Foundations (14 min), Ken Heckman Productions, Inc. Introduces drilled shaft foundations.

Driver Daily Maintenance of Light Vehicles (17 min), FHWA. Examines procedures for daily maintenance of light vehicles.

Dump Truck Operation Part 1 (17 min), Utah DOT, 1993. This series outlines the basics of dump truck maintenance and operation. Part 1 focuses on routine daily check-ups and start-up procedures.

Dump Truck Operation Part 2 (9 min), Utah DOT, 1993. Part 2 concentrates on single-axel dump trucks, also called bobtails. Covers braking, turning, shifting, backing, dumping and loading.

Dump Truck PM-A (18 min), Utah DOT, 1993. Emphasizes the daily maintenance of a dump truck, from routine greasing, oil and coolant checks, to tire rotation. Also includes driving and safety tips.

EMS: Equipment Management Systems (18 min), FHWA/LTAP, 1997.

Covers the elements and benefits of EMS, which include increased safety, improved service and effective management. This is a general overview of EMS and is much less detailed than our other videos on the subject.

Equipment Maintenance Programming & Scheduling (42 min), Montana State University, 1983. A lecture addressing the subject of equipment maintenance and how proper maintenance can save an agency money.

Equipment Management System (40 min), FHWA. Demonstrates a method to manage equipment.

Equipment Management Systems Series (114 min), FHWA/Office of International Programs, 1997. Discusses the basics of an equipment management system (EMS), including inventory control, fleet planning, purchasing and replacement, maintenance, parts and supplies management, and financial management.

Equipment Operation and Maintenance—An Overview (13 min), Utah DOT, 1993. Discussed the importance of state employees performing operations safety to ensure a cost-effective and efficient road repair job.

Equipment Servicing (part of Job Safety Analysis series) (10 min), PA DOT, 1993. Provides eight easy steps for safely maintaining and using road equipment, showing footage of workers on the job.

Forklift Operation (13 min), Utah DOT, 1993. Looks at operating techniques and describes the parts of a forklift and the functions they perform.

Forklift Preventative Maintenance (9 min), Utah DOT, 1993. Teaches a forklift operator how to perform preventative maintenance on the machine every 8 hours, called "PM-A." This ensures equipment longevity.

How Attachments Boost Backhoe Productivity (16 min), Deere & Company. Shows the various attachments that can be attached to a backhoe

and how they can productively used by a variety of agencies from municipality to a private contractor. The attachments can be used on both the front and back.

How to Get More Out of Your Motor Grader (25 min), John Deere Training Center, 1989. A professional motorgrader operator outlines the construction of roads, ditches and embankments.

Idea Store—Edition 1 (8 min), Pennsylvania RTAP, 1989. The first in an ongoing series of unique videos in which affordable, innovative ideas are shared by their inventors for the benefit of the viewer.

Idea Store—Edition 2 (13 min), Pennsylvania DOT, 1989. Shows ideas for maintaining work-zone signs and cones, changing motorgrader blades, evaluating aggregate loss, T2 center newsletters, community snow removal information flyers, and controlling beavers.

Idea Store—Edition 3 (10 min), Pennsylvania DOT, 1989. Features ideas for changing plow blades, using precast cement walls to prevent soil erosion, laying asphalt evenly, an update on controlling beavers, and magnetic pick-up of yard debris.

Idea Store—Edition 4 (10 min), Pennsylvania DOT, 1990. Shows ideas for drainage grates in streets, protecting trucks from clinging snow and ice, the cross conveyor for spreading soil in ditches, minimizing aggregate loss, and using discarded tires.

Idea Store—Edition 5 (10 min), Pennsylvania DOT, 1991. Shows ideas for hard hats, tire inflation in relation to fuel savings, update on community brochures, using the MUTCD, and an adopt-a-sign program.

Idea Store—Edition 6 (10 min), Pennsylvania DOT, 1991. Provides ideas for highway wildflowers, adopt-a-highway program, checking the clarity of signs, clipping ideas from newsletters, saving flashing lights from vandalism, casted concrete, and incentives for employees.

Idea Store—Edition 7 (10 min), Pennsylvania DOT, 1992. Features ideas for air foilers on dump trucks to keep them clean, a homemade cylinder wrench, building new timber bridges, and ideas from conferences.

Idea Store—Edition 8 (10 min), Pennsylvania DOT, 1993. Shows ideas for placing emergency information inside hard hats and a winter maintenance awareness program to keep the public informed.

Idea Store—Edition 9 (7 min), Pennsylvania DOT, 1993. Highlights a program to make heavy equipment operators more aware of vehicle blind spots. A survey of operators resulted in developing key-chain tags that illustrate each vehicle's blind spot to remind about blind spots each time they enter a vehicle.

► **Innovations 2000—Good Ideas from KDOT** (12:30 min), MODOT/edited by KDOT, 2000. Shows dump truck and heavy equipment modifications developed by KDOT staff and showcased at "Innovations 2000," a four-state equipment expo.

Innovative Tumbleweed Removal (8 min), New Mexico LTAP. Presents a new piece of machinery that assists in tumbleweed removal. The large unit attaches to the front of a large truck (i.e. dump truck) and sweeps the weeds into a chipper-shredder.

Loader Operation I & II (36 min), Washington DOT. Two-part series on the operation of the loader.

Loader Operation Part 1 (19 min), Utah DOT, 1993.

Loader PM-A and PM-B (10 min), Utah DOT, 1993. Covers details of Types A & B preventive maintenance for loaders. Shows procedures for checking fluid levels, greasing moving parts, changing oil and filters. Demonstrates necessary safety precautions during loader maintenance.

Maintenance of Truck Loader/ Tilt Trailers (114 min), State of Nebraska Department of Roads. Addresses the

areas of equipment maintenance, dump truck operation, front-end loader operation and towing with a tilt-end trailer. This would be a good video for training new employees in these tasks.

Making the Most With Scrapers & Loading Logic (2 videos/1 tape) (41 min), Caterpillar. The first program gives a detailed look at the consequences of overloading scrapers and its effect on production (18 min). Loading Logic discusses how earth moving companies work efficiently for financial success (23 min.).

Managing Space and Time for Safe Driving © (8 min), AAA Foundation for Traffic Safety, 1991. Emphasizes the need for maintaining a safe following distance and being aware of what is going on ahead, to the side, and behind your vehicle.

Mantenimiento Preventivo de Camiones Con Caja Volcadora O de Volteo (Dump Truck PM-A) (18 min).

Mantenimiento Preventivo de Motoniveladoras (Motor Grader PM-A) (9 min).

Mantenimiento Preventivo de Palas Cargadoras O Cargadoras Frontales (Loader PM-A) (10 min).

► **Message From Down Under** © (7:14 min), Kansas Gas Service, 1999. An excellent production describing danger of digging and what to do if you hit a gas, electric, water, a sewer line or fiber optic cable.

Motorgrader (73 min), Nebraska DOT. Discusses all aspects of the operation and maintenance procedures of motorgraders. This video also has a section on the proper maintenance of unpaved roads with a motorgrader.

Motorgrader Operation PM-A (9 min.), Utah DOT, 1993.

Motorgrader Operations, Parts 1, 2, & 3 (19 min), Utah DOT, 1989. Part 1 provides basic information about the motorgrader, as well as start up and shut down procedures. Part 2 deals with

blade positioning and maneuvering. Part three describes operating techniques in actual work situations.

Motorgrader Preventative Maintenance (12 min), Utah DOT, 1993.

Motorgrader Preventative Maintenance (12 min), New Mexico State Highway & Trans. Dept., 1995. Describes a scheduled system of checking equipment, making minor repairs, servicing, and documenting repairs.

Mower Operation part 1 & 2, Truck Impacts on Pavement (48 min), Nebraska DOT/ FHWA. Addresses the impact that truck and trailer loads have on paved surfaces. Also, all aspects of rotary mower maintenance and operation are discussed.

Mowing (8 min), Utah DOT, 1993. Mowing to eliminate driftlines and making roadways safe and attractive. How much, where, methods to deal with obstacles and debris are covered.

Multiple Choice, Caterpillar (24 min), Caterpillar, 1982. Discusses the safe operation of heavy equipment. It asks multiple choice questions about different construction accidents and what could have been done to prevent them.

Multi-Seal Tire Sealant (4 min), Vehtech, Inc. A short promotional video for Multi-Seal tire sealant, including how the consumer can benefit by using the product.

Naked Truth: Chainsaw Clothing and Chainsaws and Common Sense for the Pro-Logger, The (21 min), Forest Products Accident Prevention Association/ Stihl. The first program is a brief overview of proper clothing and safety gear when using chainsaws. The second discusses site safety and precautions, such as checking equipment. Loggers describe some of their dangerous experiences.

Not A Toy: Dump Truck Preventative Maintenance (12 min), State Dept of Highways & Public Transportation. Demonstrates preventative maintenance

for dump trucks, some of the safety devices and start-up checks.

On Solid Ground (18 min), Comprehension Loss Management, Inc. Construction site excavation and trenching safety are discussed, including necessary equipment and planning procedures.

Operating Tips: Punch-Pull Scrapers (12 min), Caterpillar. Shows the start-up and operation of punch-pull scrapers.

Operating Tips: Track-Type Loader (19 min), Caterpillar. Emphasizes proper digging procedures, inspection, start-up and operation for this type of loader.

Operating Tips: Track-Type Tractors (15 min), Caterpillar. Demonstrates proper start-up and operation of bulldozers.

Operating Tips: Wheel Loaders (18 min), Caterpillar. Shows proper inspection procedures, warm-up, and operation of wheel loaders.

Operator Daily Maintenance of Asphalt Distributors (16 min), FHWA, 1989. Covers daily maintenance of asphalt distributors.

Operator Daily Maintenance of Crawler Tractors (20 min), FHWA, 1989. Covers daily maintenance of crawler tractors.

Operator Daily Maintenance of Dump Trucks (19 min), FHWA, 1989. Covers daily maintenance of dump trucks.

Operator Daily Maintenance of Front-End Loaders (18 min), FHWA, 1989. Covers daily maintenance of front-end loaders.

Operator Daily Maintenance of Motorgraders (21 min), FHWA, 1989. Covers daily maintenance of motorgraders.

Operator Daily Maintenance of Rollers (21 min), FHWA, 1989. Covers daily maintenance of rollers.

Oxyacetylene Safety (25 min), no date.

Plastic Channelizer Evaluation (6 min), Minnesota DOT, 1984. Discusses evaluations of plastic channelizers, compared to metal barrels. Included are crash tests of different commercial plastic channelizers and criteria for evaluation.

Plow Power, Frost Action in Soil, Road Reclamation, Bomaging a Road (36 min), various companies. A well-produced video addressing all areas listed in the video title.

Pneumatic Tire Roller Operations (18 min), Utah DOT, 1993. Demonstrates use of rubber-tired paving compactors. Includes daily check, start-up and warm-up, basic operation, rolling techniques, and shut-down. Careful and patient operation is emphasized.

Power Take-Off (6 min), International Road Federation. Shows a device used to draw power from an engine to generate other devices.

Puff Asphalt Maintenance Systems (3 min), One Man, Inc., 1992. Promotional video for a medium-sized asphalt truck packed with equipment.

Retrofitted Load Transfer Devices (4 min), Keystone Engineering, 1993. Repair of cracks in jointed concrete pavement is accomplished dry-milling slots and placing epoxy-coated rebar to establish load transfer across pavement. This technique is used to prevent faulting and was field-tested in Indiana.

Rodeo (8 min), New Mexico Highway & Transportation Dept, 1993. Explains the New Mexico DOT's equipment rodeo, an annual event where equipment operators compete in skill tests on various types of heavy equipment.

Roller PM-A (13 min), Utah DOT, 1993. Discusses the PM-A (preventative maintenance manual procedure) on two types of rollers including fluids, lubrication, belts, fuel and tires.

Sandblasting Safety (19 min), Minnesota DOT. Demonstrates the correct and safe procedures for setting up

and running a sandblasting operation. Describes all the safety equipment for both the blaster and assistant.

Sharing the Road: A Federal-State Partnership in Commercial Vehicle Safety (15 min), USDOT/FHWA. Emphasizes the need for a uniform and stringent inspection system across our nation's highways and demonstrates the inspection criteria of the Commercial Vehicle Safety Alliance for semi-trailers and trucks.

SHRP Now! Exhibit: 1991 AASHTO Technology Transfer Fair (59 min), SHRP, 1991. Highlights some of the research products produced by SHRP exhibited at the 1991 AASHTO Technology Transfer Fair.

Signals: Read 'Em or Weep (20 min), Wyoming T2 Center. Discusses some signals of safety problems in using road-work-related equipment. Stresses preventive maintenance for diesel engines to obtain maximum engine life.

Steel Wheel Roller Operations (22 min), Utah DOT, 1993. Demonstrates operation of 4-6 ton rollers emphasizing preventive maintenance and daily checks. The basic characteristics of hydrostatic drive transmission and shifting and speed control are presented.

Taking Control of Your Motorgrader (20 min), John Deere. Shows a step-by-step process on the various functions of a hydraulic motorgrader.

Tar Pot Operation (18 min), Utah DOT. Shows operation of the tar pot, safety precautions and daily check-out procedures.

Ten-Wheel Dump Trucks (22 min), Delaware Department of Transportation. Shows the operation, start-up and shut down procedures of the 10-wheel dump truck.

Tilt Bed Trailers (28 min), Oregon T2 Center. Two-part program. Part One demonstrates pre-tip inspections. Loading procedures are compared to those for a low-boy trailer. Part Two

showing towing and basic maneuvering and unloading.

Tower Truck Safety (17 min), Central Automotive Division. Defines operator safety and responsibility with tower trucks.

Use of Steel Teeth in a Grader (10 min), Finnish T2 Center, 1992. Discusses the various uses of steel teeth in graders.

Using Your Eyes Effectively © (9 min), AAA Foundation for Traffic Safety, 1994. Demonstrates how best to use your eyes when driving. Discusses the two types of vision, central and peripheral, and where to concentrate your attention.

Weed Sprayer Operations Parts 1 and 2 (25 min), Utah DOT, 1993. Part 1 covers the major components of a truck-mounted computer-controlled weed sprayer and how they work. Part 2 covers daily preventive maintenance and equipment operating techniques.

Where the Rubber Meets the Road (16 min), US Forest Service, 1997. Describes the Central Tire Inflation System (CTI), which is a device installed on vehicles that allows the driver to adjust radial tire pressure. Describes how it works and the benefits. CTI is cost-effective and reduces damage to the road.

WORK ZONE TRAFFIC CONTROL

Arrow Panels (10 min), GME C-29, no date. Covers all types of arrow panels including: flashing arrows, sequential arrows, sequential chevrons, double flashing arrows, and caution panels. It discusses sizes, dimming features, mounting and maintenance of panels.

Arrow Panels and Barrier Delineation in Work Zones: The Well-Defined Path (50 min), FHWA. Two-part program: Focuses on the use of the flashing arrow panel as a work zone safety device. Part 2 discusses adding reflective materials to concrete safety barriers.

Barrier Delineation in Work Zones (25 min), ATSSA, 1995. Discusses concrete safety barriers with the purpose of improving roadway practices by adding reflective materials.

Construction Work Zone Liability (27 min), Audio Visual Communications, PR Dept/3M. Discusses liability in construction work zones. Initially it tells how construction liability and risk management affect the public as well as the private sector. It explains how negligence is the prime cause of liability problems.

Construction Zone Signing (58 min), KU/Mulinazzi. Explains how proper signing in the construction zones can protect the workers on the road. It discusses the latest version of Part VI in MUTCD. It also discusses roadway tort liability and new ideas for designing work zone signs.

Control de Trafico Para Zonas de Trabajos de Mantenimiento Parte I (Traffic Control for Maintenance Work Areas, Part I) (20 min).

Control de Trafico Para Zonas de Trabajos de Mantenimiento Parte II (Traffic Control for Maintenance Work Areas, Part II) (20 min).

Developing Jobsite Traffic Control Plan (21 min), International Road Federation/FHWA. Explains a step-by-step process for developing a job site traffic control plan to minimize accidents and traffic impedance and maximize safety. Their processes include pre-planning, designing the actual plan, and cost-benefit analysis.

Diversions (15 min), AR State Highway & Transportation Dept. Diversions or detours are used in construction areas to keep traffic out of the way and to ensure the safety of both construction workers and motorists.

Dropoffs (16 min), AR State Highway & Transportation Dept/Mack-Blackwell National Rural Transportation Study Ctr, 1996. Explains the proper procedures for dealing with a pavement dropoff at a work zone.

El Abanderado O Banderilero (The Flagger) (43 min.).

Elements of Flagging Safety (10 min), Oregon DOT. Discusses the necessary signs and flagging procedures around roadway construction sites.

Flagger, The (43 min), Washington DOT. Discusses flagging requirements, equipment, procedures, the flagging station and night flagging.

Flagging Operations and Procedures (23 min), South Carolina Dept. of Highways & Public Transportation, 1993. Discusses safety equipment and signing procedures for construction, maintenance and emergency situations plus night-time and pilot car signing.

Flagging Procedures and Devices (8 min), GME, no date. Describes key points to check in flagging procedures and equipment. Also discusses professional conduct and location of flagger.

Getting Safely Past the Orange Barrels (12 min), AAA Foundation for Traffic Safety. Directed toward drivers to help them understand the purpose of traffic devices and provide tips for getting past work zones.

Hazards To Motor Vehicles and Pedestrians at Urban Construction Projects (7 min), WV T2 Center, 1991. Discusses construction hazard mitigation such as proper barriers to the site and proper signage to protect both workers and the public.

Installation, Inspection and Maintenance of Worksite Traffic Control Devices (24 min), International Road Fed/FHWA. Describes the ways to maintain a smooth traffic flow at a work site and reduce liability by proper installation, inspection and maintenance of work site traffic control devices.

Introduction to Work Zone Safety (14 min), Energy Absorption Systems, Inc., 1993. Discusses the latest in barrier design technologies including portable concrete barriers, quick change barriers and water filled barriers, and truck-mounted attenuators.

Life in the Closed Lane (38 min), ATSSA. Geared toward people who install and maintain traffic control devices in work zones.

New Work Zone Safety Devices (17 min), SHRP, 1992. Introduces new safety devices designed to protect workers and motorists.

Nighttime Traffic Control (18 min), ATSSA-KTC. Provides an overview of considerations involved with installing and maintaining work zone traffic control during night hours.

Nighttime Traffic Work-Zone Control (11 min), ATSSA/ FHWA. Discusses the factors that make a work zone potentially more dangerous at night. It also discusses improving standards to meet the requirements of nighttime driving and improve nighttime visibility.

One Step From Death (11 min), Iowa DOT, 1995. Discusses "thinking safety" in the construction work zone. Some scenes are based on real events that resulted in personal injury or death.

Professional Flagging (47 min), Iowa DOT. Provides thorough coverage of flagging operations. The recording quality is poor.

Pulse of Progress, The (21 min), Pennsylvania DOT/ FHWA. Focuses on traffic control during construction on major thoroughfares.

Road Construction Ahead (30 min), FOCUS Video Productions. Outlines the process of setting up a road construction site, from surveying the land and finding the location of utility lines to beginning construction.

Safe Efficient Lane Closure (5 min), Los Angeles DOT/ Arrow Sign. For street and road maintenance crews discussing how to close a lane of traffic, following the traffic control manual for standards and procedures.

Safety By Association (11 min), ATSSA. The American Traffic Safety Services Association (ATSSA) discusses some of its activities, conventions, pub-

lications, and workshops to serve the public and industry.

Shake Hands With Danger (23 min), Caterpillar. Demonstrates various accidents that can take place on construction job sites when precautions aren't taken and what can be done to prevent them.

Signs of Work (31 min), AHTD in cooperation with MBTC, 12/17/98. The purpose of this video is to help field personnel, especially construction inspectors, better understand the purposes and uses of signs in work zones.

Smart Work Zones (7 min), Minnesota DOT, 1996. The Smart Work Zone project is designed to help create a safer environment. The project covers problems in work zones and transmits the information to drivers via signs. The aim of the project is to educate the public and promote safety.

Thin Orange Line, The (38 min), ATSSA. Training video for construction inspectors who are responsible for traffic operations in work zones. Part 1 covers the objectives and principles, standards and design of work zone traffic control. Part 2 takes the viewer through the typical inspection.

To Warn, Guide and Protect: An Introduction to Flagging (22 min), New Mexico DOT, 1992. Discusses how and when traffic control is needed in an emergency or during road construction. The safety of the workers and motorists are considered. Equipment, hand signals and proper procedures for traffic controllers are discussed.

Traffic Control for Construction and Maintenance Operations Tape 1 of 2 (23 min), ITE, 1979. #1100 Introduction to Work Area Traffic Control; #1200 Selection and Use of Devices; #1300 Sample Applications of Work Area Traffic Control.

Traffic Control for Construction and Maintenance Operations Tape 2 of 2 (21 min), ITE. #1400 Flagging; #1500 Monitoring, Maintenance, and Record Keeping.

Traffic Control for Short Term Work Zones (2 hrs), Minnesota DOT. Shows methods of traffic control at short-term work zones.

Traffic Control in Maintenance Work Areas Part 1 (20 min), Utah DOT, 1989. There are two basic objectives when building a road: getting the work done and controlling traffic while doing it. This video discusses ways to communicate to motorists using appropriate signs in the work zone area.

Traffic Control in Moving Operations (14 min), Utah DOT, 1993. Covers placement of signs and early warning devices for a two-lane closure on a multi-lane divided highway.

Traffic Control on Concrete 4R Projects #10 (19 min), Portland Cement Association. Discusses traffic control measures that have been used on Portland Cement Concrete 4R projects in many parts of the country. Importance of public relations, contractor input and intensity of concern of all persons involved is stressed.

Traffic Control Safety (10 min), Iowa DOT, 1996. Shows real operating work sites and personnel that have been photographed to appear less than perfectly safe. This is done to show the importance of keeping traffic away from work zones in order to prevent damage to workers and equipment.

Underground Safety Series: Confined Space Entry (10 min), National Safety Council, no date. Explosive gasses, toxic conditions, and lack of oxygen mean trouble in a confined space. This tape reviews dangers and what to do to protect yourself.

Underground Safety Series: Heavy Equipment Operations (10 min), National Safety Council, no date.

Underground Safety Series: Jobsite Hazards (10 min), National Safety Council. Points out several key hazards that can be found on almost every underground site.

Underground Safety Series: Personal Protection (10 min), National Safety Council, no date.

Underground Safety Series: Trench Shields (12 min), National Safety Council, no date.

Underground Safety Series: Trench Shoring (10 min), National Safety Council, no date.

Work Zone Safety Concepts (25 min), International Road Federation/FHWA, 1995. Shows how to develop an effective traffic control plan. It follows the process from pre-planning, through the actual design and writing, the implementation, evaluation, and revision.

Work Zone Safety for Roadway Maintenance Operations on Rural Highways, Parts 1-7 (108 min), DOT-FHWA, 1995. Includes an introduction to traffic control devices, traffic control zones, typical applications, flagging operations, legal liability, and a typical day. Training is for temporary traffic control for short term work sites.

Work Zone Safety for Rural and Local Agencies, Parts 1-7 (1:45 hrs), UNC ITRE/ FHWA, 1990. Part 1: Introduction; Part 2 : Traffic Control Devices; Part 3: Traffic Control Zones; Part 4: Typical Applications; Part 5: Flagging; Part 6: Legal Liability; Part 7: A Typical Day.

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BICYCLISTS / PEDESTRIANS

Bicycle Safety-Related Research

Synthesis (145 pgs), Bicycle Federation of America, 1995.

Bicycle Transportation Facilities In Kansas (18 pgs), KDOT, 1997.

City Plan for Bicycles: A Case Study of Olympia, Washington, A (8 pgs), *Small Town*, Todd Litman, 1990.

Guidebook for Student Pedestrian Safety, A (107 pgs), Washington DOT, 1996. Provides comprehensive information on developing school walk routes.

Kansas Bicycle Transportation Facilities Guide (122 pgs), Kansas DOT, 1997. A comprehensive guide for designing bike lanes, bike paths and other facilities for bicycle traffic.

Planning Community Pedestrian Safety Programs: An Agenda for Action (23 pgs), USDOT/National Highway Traffic Safety Administration, 1990. This guide will be helpful in assisting communities with integrating a pedestrian safety program into an existing community program or developing and implementing a new program.

Planning, Design and Maintenance of Pedestrian Facilities (265 pgs), USDOT/FHWA, 1989.

Priority Accessible Network for the Elderly and Handicapped Pedestrians in New Orleans (85 pgs), USDOT/FHWA, 1984.

Wanted: Walkable Communities (brochure), USDOT/FHWA, 1997. This short brochure highlights information on walkable communities such as pedestrian safety, taking action, and tools and resources. It also includes information on FHWA's Pedestrian Safety Road Show.

BRIDGES

Administration of Bridge Inspection (30 pgs), National Association of

County Engineers, *Action Guide Series*, 1986.

Bridge Maintenance on Local Roads (70 pgs), NACE Training Guide Series, 1995. Includes work zone traffic control, signs & energy-absorbing devices, cleaning & painting, culverts & related appurtenances, etc.

Bridge to Cross: Timber as a Solution, A (7 pgs), Colorado State University, 1987.

Controlling Non-point Source Runoff Pollution from Roads, Highways, and Bridges (6 pgs), *EPA Fact Sheet*, 1995.

Field Performance of Timber Bridges 17. Ciphers Stress-Laminated Deck Bridge (16 pgs), Forest Products Laboratory, 1998. Discusses the field performance of a timber bridge over a 24-month period. Includes evaluating data, the force level of stressing bars & the behavior of the bridge under static load conditions.

Fundamentals of Bridge Maintenance and Inspection (69 pages), New York DOT, July 1997. Addresses the most common types of bridge distress by outlining practical procedures for "preventive" maintenance and repair.

Improving Highway Safety at Bridges on Local Roads and Streets (35 pgs), LTAP/FHWA, 1998. Provides an excellent general guide to effective, low-cost methods for improving and enhancing bridges and bridge approach safety.

Inspection of Bridge Timber Piling: Operations and Analysis Manual (40 pgs), USDOT/FHWA, 1989.

Minor Maintenance for Rural Bridges (2 pgs), *The Bridge Fact Sheet*, 1992.

COMPUTER APPLICATIONS

City of Anaheim Integrated Traffic Management System Demonstration Project (70 pgs), USDOT/JHK & Associates, 1992.

Expert Systems: Ready to Hit the Road? (4 pgs), *Civil Engineering*; James Denning, page 71-74, 1992.

Intermodal Technical Assistance Activities for Transportation Planners and Policy Makers (85 pgs), USDOT, Office of Intermodalism, 1993.

Internet Starter Kit: Update 1997 (159 pgs), USDOT: Bureau of Transportation Statistics, 1997.

Quality Assurance Software for the Personal Computer (185 pgs), USDOT/FHWA, 1996. Includes software that provides highway engineers with the necessary tools to learn why some statistical procedures are inherently superior to others and how to incorporate this knowledge into fair and effective construction specifications.

Review of Accounting Software for Transit, A (80 pgs), USDOT/UMTA Technical Assistance Program, 1986.

CONTRACTING

Cost Reduction and Service Improvements from Contracting in Rural, Small Urban and Suburban Areas (90 pgs), USDOT, 1987.

Getting Started: Providing Contract Transportation Services: A Guide for Private Transit Providers and Transportation Companies (20 pgs), UMTA pamphlet.

Transit Service Contracting: Cream-Skimming or Deficit-Skimming? (150 pgs), USDOT, 1988.

Use of Contracting by Public Transit Agencies in California, The (75 pgs), California DOT, 1986.

CULVERTS, DITCHES & DRAINAGE

Culverts: Proper Use and Installation (5 pgs), Wisconsin Transportation Bulletin #15.

Effects of Drainage Design on Road Performance (4 pgs), Vermont Local Roads Program.

Erosion, Sediment, and Runoff Control for Roads and Highways (6 pgs), EPA, 1995.

Planning Considerations for Roads, Highways and Bridges (4 pgs), EPA, 1995.

Road Drainage (4 pgs), Wisconsin Information Center, U. of Wisconsin.

Value Engineering Study: Drainage Maintenance (15 pgs), IA, PA, and MS DOTs and National Park Service.

ELDERLY & DISABLED

Aging Process and Driving Safety, The (4 pgs), General Motors/American Medical Association, 1991.

Improved Highway Travel Considerations for an Aging Population (200 pgs), USDOT/FHWA.

FUEL, ENERGY & HAZARDOUS MATERIALS

Alternative Fuels (4 pgs), RTAP/UMTA-Technical Assistance Brief #4; Donna Hargreaves, 1991.

Alternative Fuels: What You Need to Know (4 pgs), Iowa State University, 1991.

Energy Conservation in Agriculture Transportation (6 pgs), KUTC, 1982.

Gas Watcher's Guide: Easy Ways to Save Fuel and Money (pamphlet), AAA, 1990.

Guidelines for Applying Criteria to Designate Routes for Transporting Hazardous Materials (65 pgs), USDOT/FHWA, 1981.

Logistics for Hazardous Materials Transportation: Scheduling, Routing and Siting (155 pgs), USDOT/Cornell University, 1990.

FUNDING: purchasing, budgeting & marketing

Contracting for Services Packet (5 articles) (16 pgs). Between 1987 & 1988. This packet includes articles on bidding, how to develop a quality assurance program, privatizing fleet operations, privatization's relationship to unions, and creative management within privatization.

Creative Management Through Privatization (4 pgs), *American City & County*, 1988.

Discover Total Resources: A Guide for Non-Profits (45 pgs), Mellon Bank Corporation, 1985.

Empowerment Zones and Enterprise Communities (1 pg), USDOT/FTA, 1994.

Entrepreneurial Services Program Financing Handbook (100 pgs), USDOT/FTA, 1993.

Financing and Sustaining Mobility Programs in Rural Areas: A Manual (80 pgs), USDOT, 1986.

Financing Rural Roads and Bridges (225 pgs), U.S. Department of Agriculture, 1984.

How to Budget for Capital Improvements (5 pgs), *Pennsylvania Township News*, 1990.

Innovative Highway Financing (15 pgs), FHWA, 1990. Pamphlet-size.

NACE Action Guide Volume I-3: Purchasing Authority (23 pgs), USDOT/FHWA, 1995.

NACE Action Guide, Vol. I-4: Financial Management (25 pgs), NACE, 1992.

Paying for Transportation at the Local Level: 17 Strategies (24 pgs), APWA.

Rail-Highway Crossing Resource Allocation Procedure: User's Guide (85 pgs), USDOT/FHWA, 1992.

Rural Highway Finance: Federal Funding for Interstate and Non-Interstate Highways in Rural Areas (20 pgs), U.S. Department of Agriculture, 1988.

Rural Roads and Bridges: A Comprehensive Analysis (105 pgs), US Department of Agriculture, 1997. Discusses types of road surfaces, condition of rural roads and bridges, and financing/management issues associated with local roads and bridges. Informative tables are included.

Rural Roads and Bridges: Financing Local Roads and Bridges in Rural Areas (15 pgs), US Department of Agriculture, 1997. Looks at the arrangements used by counties and towns to finance local roads and bridges, compares current patterns with those of the 1980s; focuses on revenue sources and change in expenditures and inflation.

Using the Township Budget as a Year-Round Planning Tool (7 pgs), *Pennsylvania Township News*, 1990.

MISCELLANEOUS PUBLICATIONS

Alcohol, Vision & Driving (2 pgs), American Automobile Association, 1975. Discusses the effects of alcohol on vision and driving.

Auto Insurance Shopper's Guide (23 pgs), Kansas Insurance Department, 1999-2000. Helps consumers compare rates offered by different insurance companies in different areas of Kansas. Also includes insurance shopping tips and information on complaints.

Clean Air Program and Rural Transportation, The (1 pg), USDOT/FTA, 1994.

Crash Protection (For People Who Enjoy Living) (13 pgs), American Automobile Association. Discusses the importance of wearing safety belts.

Defensive Driving (Managing Visibility, Time and Space) (9 pgs), American Automobile Association, 1994. Discusses the importance of visibility, time and space management to achieve efficient driving performance.

Handbook on Successful Supervision for Local Road Supervisors (130 pgs), USDOT/FHWA, 1990.

Hepatitis B: A Disease in Need of Prevention (12 pgs), Merck & Co., Inc.

Highway Safety Performance: 1992 Fatal and Injury Accident Rates on Public Roads in the U.S. (87 pgs), USDOT/FHWA, 1995.

Impact of State Economic Regulation of Motor Carriage on Intrastate and Interstate Commerce, The (345 pgs), USDOT/ University of Pennsylvania, 1990.

Inspector's Job Guide and Highway Maintenance Tables (18 pgs), Kansas LTAP, 1999. Covers the basic duties of inspection for concrete curbs and gutters, concrete pavement, bituminous pavement, culvert pipe and storm sewers, grading, seeding, and more.

Intermodal Technical Assistance Activities for Transportation Planners (85 pgs), USDOT/FHWA, 1994.

Kansas Auto Insurance: A Necessity (30 pgs), Kansas Insurance Department, 1999. This booklet explains basic auto insurance coverages and discounts and examines factors that influence insurance rates.

Kansas Auto Insurance: Shopping Made Easy (16 pgs), Kansas Insurance Education Foundation.

Kansas Road Condition Hotline Card Handy business card with the hotline's phone number and other information.

Know Herbicide Basics Before Application (3 pgs), *Roads & Bridges*, Harvey Holt, 1985.

LTAP News 1993 (CD), Michigan LTAP-TTTC, 1993. Contains newsletter

articles published in 1993 from all the Local Technical Assistance Programs (LTAPs), nationwide.

Metric in Construction Newsletter Articles (20 pgs), National Institute of Building Sciences, 1993. Includes several articles on different aspects of metrification, including questions and answers.

Modernized Metric System: History and Wall Chart, The (4 pgs), National Institute of Standards & Tech/US Dept of Commerce.

NACE Action Guide, Vol. I-1: Organization (20 pgs), NACE, 1992.

NACE Action Guide, Vol. I-2: Personnel (40 pgs), NACE, 1992.

NACE Action Guide Volume I-8: Public Awareness and Support (23 pgs), USDOT/FHWA, 1995.

NACE Action Guide Volume II-5: Solid Waste Management (22 pgs), USDOT/FHWA, 1995.

Pennsylvania Turnpike Commission's Incident Management Team, The (20 pgs), USDOT/Pennsylvania Turnpike Commission, 1993.

Pocket Guide to Transportation (32 pgs), USDOT, 1998. This booklet provides statistics on transportation system extent & use, transportation & the economy, safety, and energy & the environment.

Pollution Control Programs for Roads, Highways and Bridges (4 pgs), EPA, 1995.

Program Planning and Proposal Writing: Expanded Version (50 pgs), The Grantsmanship Center; Norton J. Kiritz, 1980.

Quality Improvement Resource Guide: Engineering a Quality Future in Transportation (40 pgs), USDOT/FHWA, 1993.

Recruitment and Retention Study (267 pgs), K-TRAN, 1993.

Recycled Leaves (2 pgs), *Moving Forward*, 1991.

► **Serving Rural America** (32 pgs), USDOT, 2000. Outlines USDOT-sponsored programs targeted at improving rural transportation infrastructure, services and safety. Information is general but refers to web sites for more information.

► **Successful Supervision Skills for Kansas Road and Street Crew Leaders** (58 pgs), Kansas LTAP, 2000. Contains a collection of handouts for the Kansas LTAP "Successful Supervision" workshop. Includes many ideas for motivating and evaluating staff.

Superintendent's Guide for Small Highway Department Management, A (88 pgs), Cornell Local Rds, 1995.

► **Technology Information at Your Fingertips** (20 pgs), USDOT/FHWA, 1997. A directory of national information resources for transportation technology; gives list of places to find publications and software.

Transportation Acronym Guide (38 pgs), USDOT/FHWA, 1994.

Transportation Expressions (283 pgs), USDOT/Bureau of Transportation Statistics, 1995.

Travel Model Improvement Newsletter, The FTA/FHWA EPA & Department of Energy.

Traveling with Success: How Local Governments Use Intelligent Transportation Systems (55 pgs), USDOT/FHWA, 1995.

Use of Economic Incentives & Public Education to Increase Seat Belt Use in a Community, The (100 pgs), Highway Research Center/University of North Carolina, March 1984.

Utility Accommodation Policy for the Leavenworth County Highway Department (30 pgs), Leavenworth County, KS, 1988.

Utility Cuts in Paved Roads: Field Guide (48 pgs), FHWA, 1996.

Vegetation Control for Safety: A Guide for Street and Highway Maintenance Personnel (40 pgs), USDOT/FHWA, 1990.

Wake Up! (11 pgs), AAA Foundation for Traffic Safety, 1994. Covers the dangers of sleeping while driving.

► **Working With Lead in the Construction Industry** (22 pgs), US Department of Labor/Occupational Safety & Health Administration, 1991. This booklet gives helpful information about the effects of lead poisoning, what you can do to monitor exposure, and lists the states with approved plans for lead exposure.

PAVEMENTS & ROADS: general

Asphalt Behavior at Low Service Temperatures (320 pgs), Pennsylvania DOT/USDOT/FHWA, 1990.

Compaction of Asphalt Mixtures and the Use of Vibratory Rollers (45 pgs), Texas Dept of Highways & Public Transportation, 1984.

Current Application and Successful Implementation of Local Agency Pavement Management in the United States (56 pgs), USDOT/FHWA, 1997.

Driving Customer Defined Quality into Highway Maintenance (3 pgs), Rodney A. Pletan: MN/DOT Engineer, 1994.

Guide to Safety Features for Local Roads and Streets (74 pgs), USDOT/FHWA.

HMAC Data Tracking Chart (2 pgs), Texas Dept of Highways & Public Transportation, Research Section #6, 1989.

Operational and Performance Characteristics of Drum Mix Plants (200 pgs), USDOT/FHWA, 1984.

Pavement Management at Local Government Level (45 pgs), USDOT/FHWA, 1990.

Pavement Markings (4 pgs), Wisconsin Transportation Bulletin, # 9.

PAVEMENTS & ROADS: maintenance, repair & recycling

Asphalt Paving Maintenance I, Patching (4 pgs), *OSU Extension Facts*, 1976.

Asphalt Paving Maintenance II, Cracks (4 pgs), *Oklahoma State University Extension Facts*, 1976.

Asphalt Paving Maintenance III, Distortions (4 pgs), *Oklahoma State University Extension Facts*, 1976.

Asphalt Seal Coats (35 pgs), USDOT/FHWA/Washington State DOT, 1987.

Basics of a Good Road, The (5 pgs), Vermont Local Roads Program.

Concrete Information: Maintenance of Joints and Cracks in Concrete Pavement (11 pgs), Portland Cement Assoc., 1976.

Concrete Information: Patching Concrete Pavement (15 pgs), Portland Cement Assoc., 1976.

Concrete Information: Cement Grout Subsealing of Concrete Pavement, Maintenance of Joints and Cracks in Concrete Pavement, and Patching Concrete Pavement (15 pgs), Portland Cement Association, 1982.

Concrete Pavement Rehabilitation—Guide for Load Transfer Restoration (19 pgs), USDOT, 1997. Discusses restoration of load transfer, the ability of a joint or crack in a concrete pavement to transfer load from one slab to the next through shear action.

Concrete Repair Manuals of Practice (140 pgs), USDOT/FHWA & SHRP, 1993.

Distress Identification Manual for the Long Term Pavement Performance Project (147 pgs), USDOT/FHWA SHRP, 1993.

Engineer's Pothole Repair Guide, The (10 pgs), U.S. Army Corps of Engineers, 1984.

Evaluation of Modified Single Seal Surface Treatments (26 pgs), Virginia Transportation Research Council, 1995. Describes a field study of a multicourse asphalt emulsion chip seal. These seals performed better and were more cost-effective than traditional treatments.

Evaluation of Modified Single Seal Surface Treatments—Final Report (26 pgs), G.W. Maupin, Jr. and C.W. Payne; Virginia Transportation Research Council, May 1995. Describes a field study of a multicourse asphalt emulsion chip seal, and includes recommendations for ensuring that the final product is of high quality.

Evaluation of the PAVEDEX Road Survey System in Iowa (110 pgs), Iowa DOT/USDOT/FHWA, 1990.

Gathering and Using Information on Road Conditions (2 pgs), *Road Surface Management*, 1986.

► **Guidelines for Spring Highway Use Restrictions** (14 pgs), USDOT/FHWA, 1987. Provides guidelines for where to apply load restrictions and when to apply and remove such restrictions. Sample calculations are included. Supplements video with same title.

Guidelines for Spring Highway Use: Operator's Tips (4 pgs), NW Technology Transfer Center, 1987.

Hole Story: Facts and Fallacies of Potholes, The (16 pgs), American Public Works Association, 1993.

Innovative Materials Development and Testing Volume 2: Pothole Repair (223 pgs), USDOT/FTA/SHRP/National Research Council, October 1993.

► **Insights into Pavement Preservation** (26 pgs), USDOT/FHWA, 2000. A col-

lection of nine nontechnical articles about pavement preservation and the strategy of road maintenance as opposed to reconstruction. Geared toward highway officials and the general public.

Maintenance Practices for Local Roads: Maintenance Techniques

(35 pgs), Pennsylvania DOT/McDonald & Lewis Transit, 1994.

NACE Action Guide Volume III-1: Road Surface Management (82 pgs), NACE, 1992.

PASER Manual: Pavement Surface Evaluation and Rating (40 pgs), Transportation Info Ctr, U. of Wisconsin, 1987.

Patching Techniques & Surface Treatments (46), Virginia Transportation Technology Transfer Center, March 1995. A training handbook & guide for all road maintenance employees responsible for asphalt pavement patching operations.

► **Pavement Preservation: A Road Map for the Future** (16 pgs), FHWA, 1999. Presents information discussed at a national forum in Kansas City, MO., in October 1998, about the pavement preservation concept. Key areas for action are identified.

Pavement Recycling (pamphlet), USDOT/FHWA, 1997.

Pavement Recycling Guidelines for Local Governments: Reference Manual (285 pgs), USDOT/FHWA, 1987.

► **Pothole Primer: A Public Administrator's Guide to Understanding & Managing the Pothole Problem** (28 pgs), US Army Corps of Engineers, 1989. Expresses in non-technical terms how potholes form and explains solutions; also gives helpful references for further information. Nicely illustrated.

Preventive Maintenance Series: Ditch and Pipe Cleaning, Joint and Crack Sealing, Shoulder Cutting and Grading, Surface Treatments, Pothole Patching (4 pgs), Penn DOT, 1988.

Rating Tree Procedure for Chip Seals and Crack Sealing: A partial printing of Development of a Procedure to Rate the Application of Pavement Maintenance Treatments (160 pgs), USDOT/FTA/SHRP/National Research Council, 1992.

Recycling Portland Cement Concrete (6 pgs), USDOT/FHWA.

Road Maintenance Guide for Townships (7 pgs), *Pennsylvania Township News*, 1988.

Road Wary: Our Rural Highways Weren't Built for Today's Heavy Trucks and Tractors (5 pgs), *Rural Electrification Magazine*, 1989.

Rural Roads and Bridges: Condition and Financing of Local Bridges (19 pgs), US Department of Agriculture, 1996. Examines current conditions of bridges, whether conditions have improved since 1989; discusses the funds available for bridges and management practices used to maintain bridges.

Rural Roads and Bridges: Condition and Status of Roads (12 pgs), US Dept. of Agriculture, Sept. 1996. Based on questionnaire responses from county engineers and town/township administrators, this publication discusses changes in road surface type, examines road conditions, and discusses the priorities used in managing the local transportation system.

Seal Coats (2 pgs), *Pennsylvania Township News*, 1988.

Seal Coats (4 pgs), RTAP/Pennsylvania Local Roads Program; Ed Stellfox, 1988.

Specifications for Chip Seals, Slurry Seals and Crack Sealing for the North Central Region: A Partial Printing from Development of a Procedure to Rate the Application of Pavement Maintenance Treatments (55 pgs), USDOT/FHWA/SHRP/National Research Council, 1992.

Value Engineering Study of Bituminous Patching (20 pgs),

FHWA/AR Highway Dept/Oregon DOT/Pennsylvania DOT.

PAVEMENTS & ROADS: materials & design

1996 Research & Technology: Program Highlights (40 pgs), FHWA, 1996.

Analysis of Microfabric and Its Relationship to Mineralogy and Structure Failure (58 pgs), K-TRAN, 1992.

Asphalt Paving Inspection and Chip Sealing Application Checklists (6 pgs), FHWA/LTAP, 1997.

Asphalt Roadway Rehabilitation Alternatives (181 pgs), FHWA, 1997.

BLM Road Standards (9 pgs), Excerpts from *9113 Manual Section on Roads*, 1982.

Class 4 and Development Roads: A Guide for Vermont Towns (8 pgs), Vermont Local Roads Program, 1984.

Crumb Rubber Modifier in Asphalt Pavement (109 pgs), USDOT/FHWA, 1995.

Cutter on Wheel Loader Does Job on Aged Asphalt (1 pg), *Roads & Bridges Magazine*, Sept. 1996. This article examines how Riverside, California, removes distressed asphalt by using a cutter wheel mounted on a wheel loader.

Design Freedom vs. Legal Liability (13 pgs), ASCE; Melvin B. Larson, 1984.

Estimation of Seasonal Effects for Pavement Design and Performance, Volume 1 (192 pgs), USDOT/FHWA, 1996.

Estimation of Seasonal Effects for Pavement Design and Performance, Volume 2 (168 pgs), USDOT/FHWA, 1996.

Estimation of Seasonal Effects for Pavement Design and Performance,

Volume 3 (97 pgs), USDOT/FHWA, 1996.

High-Occupancy Vehicle System Development in the United States (35 pgs), USDOT/Texas Transportation Institute, 1990.

How Additives Work with Coldmix: A Guide to Basic Emulsions, Rejuvenators and Polymers (2 pgs), *Highway & Heavy Construction*, p.56-57, 1988.

Improving Driveway & Access Management in Michigan (12 pgs), MI DOT.

Municipally Operated Gravel Pits (2 pgs), Vermont Local Roads Program.

NACE Action Guide Volume II-2: Road Programming (62 pgs), NACE, 1992.

New Methods for Determining Requirements for Truck Climbing Lanes (32 pgs), USDOT/FHWA, 1989.

Pavement Design and Rehabilitation (290 pgs), FHWA; Joe P. Mahoney, R. Gary Hicks, Newton C. Jackson, 1988.

Performance of Alternative Coatings in the Environment (PACE) Vol. 1: Ten-Year Field Data (185 pgs), USDOT/FHWA, 1990.

Quality Assurance in Highway Construction (60 pgs), Public Roads/USDOT/FHWA, 1990.

Railroad Crossing Corridor Improvements: A Model Program Based on Field Reviews in Six States (90 pgs), USDOT/FHWA, 1987.

Safety Effectiveness of Highway Design Features: Access Control, Vol. I (9 pgs), USDOT/FHWA, 1992. This is the first of six volumes that provide research results on the safety effectiveness of highway design features. This series provides information on the relationship between accidents and highway geometrics.

Safety Effectiveness of Highway Design Features: Alignment, Vol. II (14 pgs), USDOT/FHWA, 1992.

Safety Effectiveness of Highway Design Features: Cross Sections, Vol. III (23 pgs), USDOT/FHWA, 1992.

Safety Effectiveness of Highway Design Features: Interchanges, Vol. IV (8 pgs), USDOT/FHWA, 1992.

Safety Effectiveness of Highway Design Features: Intersections, Vol. V (8 pgs), USDOT/FHWA, 1992.

Safety Effectiveness of Highway Design Features: Pedestrians and Bicyclists, Vol. VI (34 pgs), USDOT/FHWA, 1992.

Superpave System (New Tools for Designing and Building More Durable Asphalt Products), The (8 pgs), USDOT/FHWA, 1995.

Training Manual for Setting Street Maintenance Priorities, A (31 pgs), Stephen Biles & Richard Kerbel/Texas A&M University, Aug. 1981. This manual will help city staff judge the relative condition of streets and rank them in order of maintenance priority.

PAVEMENTS & ROADS: soils

NACE Action Guide Volume III-7 Subsurface Soils Exploration (38 pgs), NACE, 1992.

NACE Action Guide Volume III-8, Soil Erosion and Water Pollution Prevention (64 pgs), NACE, 1992.

Reinforced Soil Structures: Vol.1 Design and Construction Guidelines (285 pgs), USDOT/FHWA/STS Consultants Ltd., 1990.

Soils for Roadwork (8 pgs), Vermont Local Roads Program.

Sound Erosion, Sedimentation Control Practices Help Prevent Environmental, Economic Problems (5 pgs), *Pennsylvania Township News*, 1991.

Stabilizing Road Soils (3 pgs), Vermont Local Roads Program.

SAFETY, WORK ZONES, TRAFFIC CONTROL, GUARDRAILS, SIGNS & POSTS

► **Accident Reduction Factors** (7 pgs), Kansas DOT, 1997. Results of an evaluation of traffic safety projects initiated in Kansas to reduce the number of accidents. These projects were funded by the Surface Transportation Program (STP).

Connecticut Impact Attenuation System (CIAS) (2 pgs), Connecticut DOT, 1991. Pocket-size.

Do You Own a Roadside Hazard? (pamphlet).

Effective Highway Accident Countermeasures (45 pgs), USDOT/FHWA, 1993.

Feasibility of an Automatic Truck Warning System (75 pgs), USDOT/FHWA, 1993.

Films For Highway Safety and Traffic Engineers (185 pages), FHWA, Dec. 1986. Provides abstracts on videos of interest to highway safety and traffic engineers.

Flagging & Work Zone Traffic Control, Hurst, Carolyn. Washington: First Class Books, 1993.

Flagging Handbook (24 pgs), ATSSA, 1993.

Flagging Procedures: A Guide for Flag Persons Controlling Traffic Through Work Areas (6 pgs), Vermont Local Roads Program.

► **Get the Picture. Listen to the Signs** (7 pgs), USDOT/FHWA, 1998. This pamphlet for the general public describes the special conditions motorists receive warning for in work zones and the signs they will see for these conditions.

Guide for Erecting Mailboxes on Highways, A (38 pgs), ASSHTO, 1994.

Guidelines for Evaluating Fluorescent Strong Yellow Green Crossing Signs (25 pgs), USDOT/FHWA, 1993.

Guidelines for Traffic Control in Work Zones (30 pgs), Wyoming LTAP and Wyoming DOT, 1996. This laminated booklet contains guidelines for the use of work zone traffic control devices, illustrated with diagrams. Also provides information on proper flagging.

Highway/Utility Guide (300 pgs), USDOT/FHWA/APWA/U. of Alabama, Civil Engineering, 1993.

Improving Traffic Signal Operations: A Primer (16 pgs), FHWA, 1995.

Innovative Devices for Safer Work Zones (12 pgs), USDOT/FHWA, 1995.

Interjurisdictional Coordination of Katella Avenue Traffic Signals (50 pgs), USDOT/FHWA/University of California, 1992.

Local Highway Safety Improvement Program: User's Guide (LHSIP) (95 pgs), USDOT, 1986.

Minimum Retroreflectivity Requirements for Traffic Signs, USDOT/FHWA, 1993.

Motorist Compliance with Standard Traffic Control Devices (150 pgs), USDOT/FHWA/Center for Applied Research Inc., 1989.

► **Moving Safely Across America: The Interactive Highway Safety Experience** (CD), USDOT/FHWA, 1998. This public-safety CD-ROM takes you on a road-trip giving possible scenarios for railway crossing, passing zones, and work zones; also gives interactive road trivia and presents information on various safety topics including road code, road conditions, etc.

NACE Action Guide Volume III-2: Traffic Operations (78 pgs), USDOT/FHWA, 1995.

Neighborhood Traffic Controls (50 pgs), City of Manhattan, Ks., 1996.

Overhead Guide Sign Visibility Factors Vol.1 (30 pgs), USDOT/FHWA/Systems Technology Inc., 1989.

Practical Safety and Operations on Local Roads (7 pgs), National Safety Council, 1986.

Prevention of Sign Vandalism: Operating Tips (4 pgs), Northwest T2 Center; George D. Crommes, 1987.

Quality Standards for Work Zone Traffic Control Devices (30 pgs), ATSSA. Pocket-size guide.

RC Flagman Priority Technology (CD), Ohio DOT, 1999. This CD provides an evaluation report and 11 minutes of video footage showing a flagging machine with a control arm and signal light operated by remote control. To use you need a web browser that can view movies and Acrobat reader.

► **Read Your Road** (6 pgs), USDOT/FHWA, 2000. This pamphlet is for the general public and explains the meaning of pavement markings, shape and color of signs, traffic signals, and pedestrian signals.

Reducing Runaway Truck Accidents Through Weight-Based Advisory Speeds (20 pgs), USDOT/FHWA, 1989.

Review of the Kansas Department of Transportation's Reflective Sheeting Policy, A (161 pgs), K-TRAN, 1992.

Right Before Your Eyes (1 pg. brochure), American Traffic Safety Services Assoc. The goal of this brochure is to increase public awareness of the importance of pavement markings in traffic safety.

Roadway Delineation Practices Handbook (250 pgs), USDOT/FHWA, 1994.

Rural Roads and Bridges in the Midwest: Finance and Administration by Counties (120 pgs), U.S. Department of Agriculture, 1988.

Sign Storage Rack (2 pgs), RTAP/Pennsylvania Local Rds Program *Info Fact Sheet #21*, 1988.

Sign Trucks Packet (6 pgs), *The Center Line*; Iowa State, HERPICC, 1990.

Speed and Accidents (pamphlet), Kansas Highway Patrol.

State of Kansas Traffic Control Handbook for Flaggers (16 pgs), KDOT, 1996. This excellent booklet, used by KDOT flaggers, explains flagger responsibilities, do's and don'ts, and specific information about hand signals, signing, and safety.

Summary of New York's Research on Pavement Marking Materials, A (13 pgs), FHWA/New York DOT; Ronald Lorini, 1992.

Traffic Conflict Techniques for Safety Operations: Observer's Manual (35 pgs), USDOT/FHWA, 1989.

Traffic Information Program Series (TIPS) (85 pgs), U. of Florida Transportation Research Center.

Traffic Signal Warrants (60 pgs), Texas DOT Report #3991-2, 1998. Discusses guidelines for conducting a traffic signal warrant analysis. Includes data collection procedures and use of the MUTCD.

Traffic Signal Workshop (110 pgs), KUTC, 1993.

Variable Speed Limit Cost Benefit Analysis (35 pgs), USDOT/FHWA/RJO Inc., 1989.

► **What To Do If Your Vehicle Breaks Down** (1 pg), Kansas Highway Patrol, 1994. This card tells what to do at the scene of an accident, how to change a tire, and what to do if you need to leave your vehicle for help. It also lists first aid items to keep in your vehicle. The back side of the card has "Send Help" in large print.

Work Area Protection Guide—Street & Utility Repairs (83 pgs). Describes how to move vehicles & pedestrians

safely & quickly through or around temporary traffic control zones while protecting onsite workers & equipment. Clearly written and well-illustrated.

Work Zone Traffic Control Information Catalog (30 pgs), USDOT/FHWA, 1992.

Work Zone Traffic Management Synthesis: Use of Rumble Strips in Work Zones (51 pgs), Turner-Fairbank Highway Research Ctr, 1989.

SNOW & ICE CONTROL

Anti-Icing with Salt Brine...A Key Tool for Winter Maintenance Arsenals in the 21st Century (4 pgs), The Salt Institute, 1999. This article from a Salt Institute newsletter provides basic information on the use of salt brine as an anti-icing agent.

► **Billions at Risk During Snow Emergencies** (4 pgs), The Salt Institute, 1999. This article from the *Salt & Highway Deicing Newsletter* discusses an economic analysis of the impact of winter weather conducted by Standard & Poor's DRI.

Black Ice! (1 pg), Kansas LTAP, 1999. This is a reprint from the Cornell Local Roads Program about conditions that produce black ice and how to drive on roads with black ice. Also includes treatment strategies.

Deicing Agents: A Primer (2 pgs), Public Works, 1991.

Deicing Salt and Our Environment (25 pgs), The Salt Institute.

Early Budget Preparation Helps Keep Winter Operations Running Smoothly (4 pgs), *Pennsylvania Township News*, 1991.

Ice Detection and Highway Weather Information Systems: Summary Report (20 pgs), USDOT/FHWA, Test & Evaluation Project 011, 1993.

Kansas LTAP Winter Operations Packet, various sources. This is a packet

of materials from Kansas LTAP snow and ice workshops. Includes publications of the Salt Institute and many other useful hand-outs from various sources.

Manual of Practice for an Effective Anti-Icing Program: A Guide for Highway Winter Maintenance Personnel (63 pgs), USDOT/FHWA, 1996.

Reliable Forecasts Prepare Townships for Winter's Worst (3 pgs), *Pennsylvania Township News*, 1991.

Salt Storage Handbook (19 pgs), The Salt Institute, 1997. Provides information on consideration in storing salt. Liberally illustrated.

Snow and Ice Removal Operation Plan (2014) (45 pgs), City of Leavenworth, Kan, 1993.

Snow Fence Guide (61 pgs), SHRP/USDOT/FHWA, 1991.

Snowfighter's Handbook, The (23 pgs), The Salt Institute, 1999. A comprehensive guide to the use of salt and salt brine in winter highway operations.

Townships Recognize Long-Range Planning as Key to Successful Winter Maintenance (7 pgs), *Pennsylvania Township News*, 1991.

We're makin' a list, checkin' it twice, Gonna find out who's ready for ice! (1 pg), U. of New Hampshire Tech Transfer Center.

Winter Maintenance: How to Make it Easier (7 pgs), *Better Roads*, 1992.

Winter Operations Checklist (4 pgs), Pennsylvania Local Roads Program/RTAP Technical Information Sheet #47, 1991. Included with Kansas LTAP Winter Operations Packet.

Winter Road Maintenance Dilemma: Contracting Out vs. Doing it Yourself, The (4 pgs), *Pennsylvania Township News*, 1991.

TORT LIABILITY

Freeway Incident Management Handbook (130 pgs), FHWA/ USDOT/ Dunn Engineering Associates, 1991.

Massachusetts Incident Management Conference Proceedings (260 pgs), USDOT, 1991.

Perspectives on Accident Reconstruction and Liability: A Short Course for Public Works Employees and Elected Officials (25 pgs), KUTC, 1993.

Protect Your Agency From Tort Liability Suits (4 pgs), Colorado State, 1988.

Public Transit Risk Management: A Handbook for Public Transit Executives (75 pgs), USDOT/ Fred S. James & Co. of Virginia, Inc., 1984.

Reducing the Risks of Tort Liability for Roads (8 pgs), Vermont Local Roads Program.

Risk Assessment Vulnerability Users Manual for Small Communities and Rural Areas (135 pgs), USDOT, 1986.

Risk Management Manual for the Public Transit Industry Vol. 1 (130 pgs), USDOT/UMTA-TAP, 1988.

Risk Management Manual for the Public Transit Industry Vol. 2 (105 pgs), USDOT/UMTA-TAP, 1988.

Risk Management Manual for the Public Transit Industry Vol. 3 (115 pgs), USDOT/UMTA-TAP, 1988.

Ruralization of Risk Management: A Handbook for Small Transit Operators (150 pgs), USDOT/FTA, 1992.

Tort Liability and Risk Management (50 pgs), Cornell Local Roads, 1987.

Traffic Engineer as an Expert Witness, The (5 pgs), *ITE Journal*; Hirmat S. Chadda & Thomas E. Mulinazzi, 1987.

TRANSIT: developing & maintaining services & programs

ADA and Aging Transit Services, The (9 pgs), National Eldercare Institute, 1992.

American Indian Transportation: Issues and Successful Models (8 pgs), *FTA/RTAP Technical Assistance Brief #14*, 1994.

Americans with Disabilities Act (ADA) Paratransit Eligibility Manual (335 pgs), USDOT/FHWA, 1993.

Coordinating Transportation: Models of Cooperative Arrangements (27 pgs), CTAP, 1993.

► **Develop Ridership Policies Before You Need To** (10 pgs), Kansas University Transportation Center, 2000. This publication names some policies your agency could implement for riders, gives an outline for ridership policies, and a list of information an agency needs to give the rider.

Developing a Comprehensive Service Strategy to Meet a Range of Suburban Travel Needs (150 pgs), USDOT, 1990.

Employers, Commute Alternatives, and the ADA (9 pgs), Rides for Bay Area Commuters, Inc., 1993.

Expanded Scope of Federal Motor Carrier Safety Regulations (1 pg), USDOT/FTA. Presents an overview of costs involved with street maintenance including road repair, car repair and accident costs. Best for decision-making personnel.

Guide to Resource Development for Transportation Services in Title VI Programs (28 pgs), National Eldercare Institute on Transportation.

Guide to Screening Community Paratransit Service Options, A (60 pgs), USDOT/ Multisystems, Inc., 1981.

Handbook for Coordinating Transportation Services, A (215 pgs), USDOT/ Ohio DOT, 1991.

Handbook for Establishment of Shipper's Association: Acceptability and Procedure (105 pgs), USDOT, 1984.

Implementation Guidelines for Coordinated Agency Transportation Services (85 pgs), USDOT/HEW/ Community Services Administration/ ACTION, 1980.

Implementation Manual for the Rapid Repair of Wet Asphalt Concrete (75 pgs), Center for Transportation Research, 1985.

Innovative Technologies and Practices for Accessible Transportation (34 pgs), CTAP, 1994.

Involving Private Providers in Public Transportation Programs: Administrative Options (35 pgs), USDOT, 1981.

Link to Employment: Case Workers as Mobility Managers, The (7 pages), Community Transportation Association of America, Summer 1997. Explores the role of case workers in helping job seekers obtain transportation to help them find and maintain employment.

Local Perspectives on Volunteer Driver Programs that Serve the Elderly and Handicapped (10 pgs), Florida State University; David Cyra, 1981.

Making a Transit Service Accessible (8 pgs), USDOT/FHWA/FTA/RTAP National Program Technology Assistant #9, 1992.

► **Medicaid Transit Passes** (6 pgs), Department of Health and Human Services/Department of Transportation, 2000. This booklet gives a brief background of Medicaid and describes the benefits of Medicaid transit passes.

Planning Guidelines for Coordinated Agency Transportation Services (50 pgs), USDOT/ U.S. Dept of Health

Edu & Welfare/Comm Service, 1980.

Planning Guidelines for Suburban Transit Services (115 pgs), UMTA/Texas TransInstitute, 1988.

Public Transportation Services in Kansas: A Directory of Providers Receiving Federal Transit Administration Sec.18 and Sec.16 Grants (270 pgs), Kansas DOT, 1992.

► **Rural Transit Service Design and Scheduling** (12 pgs), RTAP Technical Assistance Brief #12. Discusses some of the basic considerations in rural transit service design and scheduling and in the use of computers to assist in providing transit service.

Strategic Planning in Small and Medium-Size Transit Agencies: A Discussion of Practice and Issues (115 pgs), USDOT, 1986.

Training and Development: Excellence in Community Transportation (6 pgs), FTA/RTAP Technical Assistance Series, Brief #7, 1993.

► **Transit Managers Take Trapeze, Multisystems for a Test Drive** (7 pgs), Scott Bogren, *CT Magazine*, 1996. A panel of transit professionals review two of the most commonly-used routing and scheduling software vendors— Multisystems and Trapeze.

Use of Volunteers in the Transportation of Elderly and Handicapped Persons (140 pgs), USDOT/UMTA, 1984.

Using Volunteers in Transportation (9 pgs), USDOT/UMTA-TAP #1, Dennis Studebaker.

TRANSIT: general

1992 Statistical Summaries: Grant Assistance Programs (125 pgs), USDOT/FHWA, 1992.

ADA Public Participation Handbook (285 pgs), Project ACTION, 1993.

Advocating for Your Transit System: Technical Assistance Brief #16 (8 pgs), FTA/RTAP National Program, 1995. Describes a four-step process for how to advocate support for your transit system.

Case Studies in Rural Transportation Resource Management: A Guide for Local Elected Officers (75 pgs), USDOT, 1984.

Codification of Federal Transit Laws (12 pgs), USDOT/FTA, 1994.

Coming Shape of Federal Drug and Alcohol Testing Rules, The (5 pgs), CTAA/FTA-RTAP/USDOT/ National Transit Resource Ctr Info #2, 1993.

Complying with Federal Regulations: A Primer for Rural Transit Providers (15 pgs), RTAP Technical Assistance Brief, 1996. Discusses federal requirements most likely to affect rural transit systems.

Construction Costs and Operating Characteristics of Vintage Trolleys (62 pgs), USDOT/FHWA, 1992.

Coordinated Transit District Handbook: A Guide for Kansas CTD Administration (150 pgs), KDOT, 1995.

Estimating the Cost of Work-Rule Changes in Transit (125 pgs), USDOT/UMTA-TAP, 1984.

Expanding the Use of Private Sector Providers in Rural, Small Urban and Suburban Areas (150 pgs), UMTA-TAP, 1987.

Exports, Transportation and Private/Public Cooperation (40 pgs), USDOT, 1985.

Guide for Implementing Drug Testing, Policies and Procedures for Rural Transit Operators (25 pgs), KUTC. (draft).

Idaho Rural/Small City Cooperative Transportation Marketing Demonstration Project, The (125 pgs), USDOT/UMTA-TAP, 1986.

Impact of Drug and Alcohol Testing Requirements for Subcontracted Maintenance in Section 18 Systems in Kansas: Kansas Survey Results, The (20 pgs), KUTC, 1993.

Innovative Funding Strategies: Public and Private (7 pgs), *FTA/RTAP Technical Assistance Brief #10*.

Innovative State Medicaid Transportation Programs (60 pgs), DHHS/DOT Coordinating Council on Human Services Transportation US Dept of Health & Human Services, 1995.

Insurance for Specialized Transportation (4 pgs), Colorado Division for Developmental Disabilities, 1992.

Kansas Coordinated Transit Districts Act: House Bill 2971 (4 pgs), Kansas Legislature, 1992.

Kansas Head Start Provider Contact List (2 pgs), 1996.

Managing System Safety for Rural Transit: Technical Assistance Brief #13 (5 pgs), FTA/RTAP National Resource Center, 1994.

Measurement of Transit Benefits (165 pgs), USDOT/UMTA/University of Wisconsin, 1993.

NETWORK: Transit Systems—PB's Continuing Leadership in a Multidisciplinary Setting (68 pgs), Parsons Brinckerhoff, 1996.

Non-Emergency Medicaid Transportation: Its Importance to Rural Transportation (1 pg), USDOT/FTA, 1994.

Performance Evaluation for Rural Transit Systems (4 pgs), USDOT/RTAP/UMTA.

Private Sector Contracting Workshop Manual for Rural and Small Urban Public Transportation Providers (150 pgs), USDOT, 1988.

Public Transportation Services in Kansas: A Directory of Providers

Receiving Federal Transit Administration (Section 18, Section 16, and Section 9 Grants) (192 pgs), KDOT, 1996.

Quality of Work Life in the Transit Industry (230 pgs), USDOT/TransResearch Council/ National Coop Transit Research & Devel Program, 1986.

Rural and Public Transportation Performance Evaluation Guide (150 pgs), USDOT, 1982.

Rural and Small Urban Transit Managers' Workshop: Student Workbook (150 pgs), UMTA-TAP, 1989.

Rural and Specialized Transportation Abstracts (53 pgs), USDOT/UMTA/ 10th National Conference on RI Public Transportation, 1991.

Rural and Specialized Transportation: A Core Bibliography (12 pgs), Center for Community Transportation.

Rural Intercity Bus Transportation in Kansas: Key Issues and Strategies to Implement and Intercity Bus Program Utilizing Federal Transit Administration, Section 5311(f) Funding (55 pgs), Kansas DOT, 1995. A study that pertains to the issues including: identifying areas of the state where rural intercity transportation is currently available, the demand of bus service in previously served areas, and administrative options to meet the demand.

Rural Transit Performance Management (7 pgs), Laurel Radow & Chris Winters, no date.

Safe Transport of the Public Under the Americans with Disabilities Act (39 pgs), USDOT/FTA/RTAP.

State of Kansas Coordinated Transit District Plan (125 pgs), KDOT/ Kansas Transportation Center.

State Technical Assistance Programs and Manuals on Rural Public Transportation: second edition (20 pgs), USDOT, 1980.

Training Consumers with Disabilities (75 pgs), Project ACTION, 1993.

Training Materials and Resources for Rural and Specialized Transit Systems (50 pgs), UMTA/RTAP, 1988.

Transit ADA: Transportation in Non-Urban Areas; Investigating the Impact of the Americans with Disabilities Act on Rural Transit Systems (66 pgs), K-TRAN, 1994.

Transit Planning Development (190 pgs), Community Transportation Assoc. of America, 1996.

Transportation and Rural Revitalization (26 pgs), Community Transportation Assoc. of America, 1995.

Violence in the Workplace Today (4 pgs), Satore Township, no date.

What is Coordination and What's In It for Me? (70 pgs).

Winds of Change: Fiscal and Physical Security for Rural America (6 pgs), Assistant US Secretary for Aging, Central States Coalition on Aging Conference, 1993.

► **Your Ticket to Safety: Bloodborne Pathogen Awareness** (8 pgs), Iowa DOT. This pamphlet complements the video "Your Ticket to Safety: Bloodborne Pathogen Awareness" and lists the types of bloodborne pathogens, describes the method of transmission and the precautions needed to prevent infection.

TRANSIT: legislation

Americans With Disabilities Act: Your Employment Rights as an Individual With a Disability, The (pamphlet), U.S. Equal Employment Opportunity Commission, 1991.

Americans With Disabilities Act: Your Responsibilities as an Employer, The (pamphlet), U.S. Equal Employment Opportunity Commission, 1991.

Intercity Bus Transportation: New Opportunities for Rural America

(13 pgs), RTAP. This Technical Assistance Brief (#11) looks at Section 18 funding opportunities for transit service between rural communities.

State Highway Funds for Coordinated Transportation Services to Elderly Persons, Persons With Disabilities, and the General Public (45 pgs), U.S. House of Representatives Bill 2099, 1992.

TRANSIT: management

Americans With Disabilities Act: Questions and Answers, The (pamphlet), U.S. Equal Employment Opportunity Commission, 1991.

Baseline Transit Needs Assessment—Topeka, Kansas/ Baseline Paratransit Needs Assessment-Manhattan, KS (126 pgs), Kansas State University, 1998. Presents the results of the transit needs assessment for Topeka and the paratransit needs assessment for Manhattan; attempts to quantify the financial resources transit/paratransit services in Topeka/Manhattan for the periods 1997-2006/1998-2007.

Belt Tightening: How to Survive in Lean Times (14 pgs), RTAP. This Technical Assistance Brief (#17) reviews cost-cutting measures for transit such as service re-design, drug testing consortia, risk mgmt. Pools, use the use of volunteers, and preventative maintenance tips.

Bloodborne Pathogens: A Guide for Managers (11 pgs), CTAP, 1995. This Technical Assistance Brief (#3) provides information about equipment and training needed to bring a transit agency into compliance with OSHA regulations concerning biohazards.

► **Chapter 3—Use and Abuse of Psychoactive Prescription Drugs & Over-the Counter Medications** (3 pgs), National Clearinghouse for Alcohol and Drug Information, 2000. Provides a brief background on the use of prescription drugs/over-the-counter medications and describes the evolution of psychoactive prescribing.

Communications 101—Dealing With the Media (4 pgs), Scott Bogren, *CT Magazine*, 1999. How to develop a positive relationship with the press—one that is beneficial to your agency.

Complying with FTA DBE Requirements (10 pgs), RTAP. This article describes how to comply with FTA's Disadvantaged Business Enterprise Program.

Coordinating Special Transportation Services in Louisiana (125 pgs), USDOT/UMTA-TAP, 1988.

Cost Allocation Model Development (18 pgs), Mutli-State Technical Assistance Program, AASHTO, 1992. Excerpted from "Financial Management Guidelines for Rural and Small Urban Transportation." Describes a two-vehicle, fully-allocated cost model.

Developing a Performance Management System for Transit Services (55 pgs), USDOT, 1989.

Developing a Transit System Personnel Policy (8 pgs), FTA/RTAP *National Program Technology Assistance Brief #6*.

Drug and Alcohol Testing for Human Services Transportation Providers (16 pgs), CTAP, 1995. This Technical Assistance Brief (#2) provides a thorough review of FHWA's testing requirements and contains a helpful question-and-answer section on this topic.

► **Drug and Alcohol Regulation Updates** (6 pgs), Federal Transit Administration, 2000. Gives information about drug and alcohol testing regulation seminars, requesting test results, gives a substance abuse policy checklist and talks about education of the dangers of prescription and over-the-counter drugs.

Employee Transportation Coordinator Handbook, The (110 pgs), USDOT/Commuter Transportation Services, 1990.

► **Give 'Em the Facts: Prescription and Over-the-Counter Drug Abuse** (4 pgs), National Clearinghouse for

Alcohol and Drug Information, 2000. Provides information on common medications and how they affect behavior, especially safety-sensitive work.

Guidelines for Improvements to Transit Accessibility for Persons with Disabilities (79 pgs), USDOT/FTA, 1992.

Handbook for Management Performance Audits: Second Edition (185 pgs), USDOT, 1988.

Handbook for Transportation Management Review (65 pgs), USDOT, 1986.

How to Write an FTA Drug and Alcohol Policy for Your Transit System (12 pgs), RTAP, 1995. This Technical Assistance Brief (#15) provides guidance for writing a well-planned drug and alcohol policy.

Implementing Driver Selection and Training for Human Service Agencies: Administrator's Guidelines (60 pgs), USDOT, 1980.

Improved Decision Making Power for the Transit Maintenance Manager (15 pgs), USDOT/M.R. Couture & C.E. Paules, 1984.

Legislation of Interest to Community Transportation: The Americans With Disabilities Act (5 pgs), National Eldercare Institute on Transportation, #3, 1992.

Making New Technologies Work for Rural Transportation (11 pgs), RTAP, 1996. This InfoBrief (#4) describes some of the more popular new technologies used in rural transit and how they improve service.

Managing Bloodborne Pathogens: A Workshop for Transit Managers (35 pgs), Florida DOT, 1997.

Mass Transit Management Part 2: A Handbook for Small Cities; Management and Control (65 pgs), USDOT, 1988.

Minimizing the Risk from Bloodborne Pathogens: A Guide for Managers (6 pgs), US Dept of Health/CTAP, 1995.

Mobility Management and Market-Oriented Local Transportation (50 pgs), USDOT/ UMTA/ International Taxi Cab & Livery Assoc, 1991.

New Horizons for the Air Traveler with a Disability (pamphlet), USDOT/ Office of the Secretary of Transportation, 1991.

► **Over-the-Counter Drugs** (14 pgs), Merck and Co., Inc., 2000. This gives a history of over-the-counter drugs, detailed descriptions of analgesics/anti-inflammatory drugs, antihistamines, antacids, motion sickness drugs and sleep aids; gives precautions for different age groups.

► **Reasonable Suspicion Referral for Drug & Alcohol Testing** (70 pgs), USDOT, 1997. Geared for a classroom environment, this book informs transit personnel on the dos and don'ts, whys and hows in making fair and reliable reasonable suspicion drug and alcohol testing referrals.

Risk Management for Rural Transit Systems (4 pgs), *FTA/RTAP Technical Assistance Brief #8*, 1992.

Special Policies for Special Passengers (4 pgs), *RTAP/UMTA Brief #3*.

State and Local Highway Training and Technology Resources (115 pgs), USDOT/FHWA/APWA, 1992.

Supporting and Encouraging General Public Transit Ridership in Kansas: A Guidebook for Kansas Section 18 Operators (200 pgs), KUTC, 1991.

Transit Employee Attendance Management Vol. 1: Review of Attendance Programs (115 pgs), USDOT/UMTA-TAP, 1986.

Transit Employee Attendance Management Vol. 2: Transit Attendance Management Information System (50 pgs), USDOT/UMTA-TAP, 1986.

Tuberculosis Information Packet (4 pgs), Ctrs for Disease Control & Prevention/Maryl & State Dept of Health & Hygiene, 1995.

► **Using Over-the-Counter Medication Wisely** (4 pgs), Dept. of Health and Human Services, 1991. Gives some very useful information regarding the effects of over-the-counter drugs containing salicylates, antihistamines, decongestants, and acetaminophen.

Vehicle Procurement (8 pgs), UMTA/RTAP, Connie Garber, *Technical Assistance Series Brief #2*.

West Virginia Transit Marketing Manual, "Get on the Bus and Ride" (90 pgs), USDOT/ West Virginia Public Transportation Division, 1984.

Wisconsin Transit System Marketing Manual (250 pgs), USDOT/Wisconsin DOT, 1987.

TRANSIT: planning & design

Accessibility Handbook for Transit Facilities (230 pgs), USDOT/FHWA, 1993.

Advanced Public Transportation Systems: A Bibliography with Abstracts, 1985-1991 (50 pgs), USDOT/FTA/TRB, 1992.

Coordinating Transportation in Your Community (6 pgs), National Eldercare Institute on Transportation, *Issue Brief #4*, 1992.

Current Use of Geographic Information Systems In Transit Planning (77 pgs), EG & G Dynatrend, Inc., Aug. 1991. Identifies the use of GIS technology in public transit agencies and MPOs for transportation planning and analysis.

Encouraging Public Transportation Through Effective Land Use Actions (110 pgs), USDOT/METRO-Municipality of Metropolitan Seattle, 1987.

Evaluation of Intermodal Passenger Transfer Facilities (216 pgs), USDOT,

Sept. 1994. Based on a study in Milwaukee, this book shows methods for preliminary design, location and evaluation of intermodal passenger transfer facilities.

Evaluation of the Specialized Volunteer Transportation Program of the Area IV Agency on Aging and Community Service (150 pgs), USDOT, 1987.

Functional Design of Ferry Systems (135 pgs), U.S. Dept of Commerce/Trans Training & Research Center, Polytechnic Institute of New York, 1980.

Guide to Land Use and Public Transportation, A (165 pgs), USDOT/Snohomish County Transportation Authority, 1989.

Guide to Strategic Planning for Transit Properties, A (170 pgs), UMTA/Morgan State University, 1988.

Guidelines for Transit-Sensitive Suburban Land Use Design (165 pgs), USDOT, 1991.

Impact of Changing Women's Roles on Transportation Needs and Usage, The (115 pgs), USDOT, 1983.

Implementing Effective Travel Demand Management Measures: Inventory of Measures and Synthesis of Experience (430 pgs), USDOT, 1993.

Improving Truck Safety at Interchanges (2 pgs), USDOT/FHWA, 1989.

Innovations in Public Involvement for Transportation Planning (65 pgs), USDOT/FTA/FHWA, 1994.

New Suburb, The (90 pgs), USDOT, 1991.

Proceedings of the UMTA/APTA Workshop on Fixed Guideway Planning (75 pgs), USDOT/ Georgia Institute of Technology, 1991.

Rural Transit Service Design and Scheduling (7 pgs), *FTA/RTAP Technical Assistance Brief # 12*, 1994.

Self-Instructing Course in Disaggregate Mode Choice Modeling, A (185 pgs), USDOT/FTA/UMTA/U. of Iowa, NW Univ, Mass Institute of Tech, 1986.

TRANSIT: ridesharing & ridership

Guaranteed Ride Home: Taking the Worry Out of Ridesharing (75 pgs), USDOT/ Commuter Transportation Services, Inc., 1990.

Managing Transit Ridership With Short-Term Economic Incentives (45 pgs), UMTA, 1982.

Marketing Manual for Shared-Ride Taxi Systems in Wisconsin (125 pgs), USDOT/Wisconsin DOT, 1987.

No Pay May: Project Description, Analysis of Ridership Data and Survey Results (50 pgs), USDOT/ Topeka Metro Transit Authority, 1988.

Personal, Social, Psychological and Other Factors in Ridesharing Programs (105 pgs), USDOT/ Morgan State University, 1984.

Proceedings of the Commuter Parking Symposium (200 pgs), USDOT, 1990.

Shared-Ride Paratransit Performance Evaluation Guide (100 pgs), USDOT, 1989.

► **Taking Advantage of the Commuter Tax Benefit** (4 pgs), National Transit Resource Center, 1999. Describes the Commuter Tax Benefit for employees, lists the expenses that qualify and presents a few successful case profiles.

Transportation Implications of Telecommuting (200 pgs), USDOT, 1993.

Transportation Management Associations in the United States (160 pgs), USDOT, 1992.

Vanpooling: A Handbook to Help You Set Up a Program at Your Company (55 pgs), USDOT/Commuter Transportation Services, Inc.

TRANSIT: small & urban cities

Commuter Rail State-of-the-Art: A Study of Current Systems (100 pgs), USDOT, 1992.

Comprehensive Study of Intercity Bus Service in Nebraska (90 pgs), Northeast Department of Roads, 1988.

Impact of Labor Protection Regulations on the Development of Alternative Rural Intercity Passenger Transportation in Kansas, The (145 pgs), Kansas DOT/KUTC, 1990.

Increasing the Productivity of the Nation's Urban Transportation Infrastructure: Measures to Increase Transit Use and Carpooling (420 pgs), USDOT/Harvard University, 1992.

Intercity Bus Feeder Project Program Analysis (160 pgs), USDOT, 1990.

Key Decisions in Urban Transportation Public-Private Cooperation (135 pgs), USDOT, 1988.

Mass Transit Management Part 1: A Handbook for Small Cities: Goals, Support and Finance (75 pgs), USDOT, 1988.

Mass Transit Management Part 4: A Handbook for Small Cities: Marketing (85 pgs), USDOT, 1989.

Mass Transit Management Part 3: A Handbook for Small Cities: Operations (467 pgs), USDOT, 1988.

TRANSIT: vehicles & driving

1989 Minnesota Statewide Bus Rodeo Handbook (60 pgs), Minnesota Public Transit Association, 1989.

Application of the Quality Functional Deployment Method in Mobility Aid Securement System Design (125 pgs), USDOT/FTA/Oregon State University, 1992.

Bus Driver's Manual: A Guide of Laws and Regulations for Professional

Bus Drivers (35 pgs), Lyon County Council on Aging, 1989.

Bus Fleet Management Principles and Techniques (185 pgs), USDOT, 1987.

Conducting a Daily Pre-trip Inspection (6 pgs), KDOT, no date.

Crashworthiness of Large Post-Standard School Buses (200 pgs), National Transportation Safety Board, 1986.

Defensive Driving and Safe Driving Procedures (8 pgs).

Development of an Independent Locking Securement System for Mobility Aids on Public Transportation Vehicles, The (96 pgs), USDOT/FTA, 1992.

Evacuating Elderly and Disabled Passengers From Public Transportation Vehicles Emergencies (67 pgs), Senior Services of Snohomish County, 1991.

Guideline Specifications for Passive Lifts, Active Lifts, Wheelchair Ramps and Securement Devices (110 pgs), USDOT/FTA, 1992.

Handbook for Purchasing a Small Transit Vehicle (135 pgs), USDOT/Pennsylvania DOT, 1988.

Improving Bus Accessibility Systems for Persons with Sensory and Cognitive Impairments (69 pgs), FTA/USDOT, 1993.

Know How to Drive? Try This Driving Knowledge Quiz (4 pgs), AETNA Life & Casualty, 1991.

Maintenance Manager's Manual for Small Transit Agencies (185 pgs), USDOT/Ohio DOT, 1988.

Maintenance Recordkeeping (8 pgs), OATS, Inc.

Management Tools for Bus Maintenance (70 pgs), USDOT, 1983.

Michigan Small Bus Roadeo Handbook (50 pgs), Michigan DOT, 1984.

► **Minnesota Statewide Bus Roadeo Handbook** (62 pgs), Minnesota Public Transit Association, 1989. Provides contestant qualifications, types and sizes of buses used, regulations regarding roadeo events, and examples of the roadeo setup.

National Workshop on Bus-Wheelchair Accessibility: Proceedings (200 pgs), USDOT/UMTA-TAP, 1986.

Operating Strategies for Major Radical Bus Routes (37 pgs), USDOT, 1984.

Preventive Maintenance Schedule and Checklist (20 pgs), OATS Inc., 1987.

Professional Driver, The (65 pgs), Care Cab Transportation Services, Inc., 1997. This video supplement trains people to be professional drivers by teaching topics such as: passengers with developmental disabilities, communicating with your passenger, first-aid and vehicle safety.

SNAAP: Drivers Reference Manual (78 pgs), North Carolina DOT, 1995. This reference guide for transportation service providers provides information regarding characteristics of disabilities, common assistive devices, ADA regulations, specific needs assistance, and physical assistance procedures.

Specification Guide for Small Transit Vehicles (55 pgs), USDOT/Indiana DOT, 1984.

Statewide Bus Roadeo Handbook (62 pgs), Minnesota Public Transit Association, 1989. Describes the list of criteria for bus drivers who wish to compete in the Minnesota Bus Roadeo.

Strategies for Implementing a Standee-on-Lift Program for Fixed Route Bus Service (43 pgs), USDOT/FTA, 1993.

► **Total Body Stretch** (8 pgs), Live for Life Program, Duke University, 2000. Describes ways to stretch major muscles

with helpful diagrams. Useful for employees who sit for long periods of time.

Transit Bus Maintenance Management (90 pgs), USDOT/University of Illinois at Chicago, 1984.

Traveling Through Kansas: A Guide for the Motor Carrier Industry (45 pgs), KDOT/Kansas Dept. of Revenue, 1993.

Van Conversion Manufacturer's Certification (10 pgs), National Van Conversion Assoc. Inc.

Wheelchair Lift Maintenance: A Handbook for Rural Transit Providers (43 pgs), USDOT/FTA, 1993.

Wisconsin Bus Safety Manual (90 pgs), USDOT, 1985.

Workplace Hazards Associated with Alternative Fuels in Transit Applications (50 pgs), Iowa State University, 1990.

Your Driving Costs (pamphlet), AAA, 1990.

TRANSPORTATION LEGISLATION

Alcohol and Drug Rules: An Overview (16 pgs), USDOT, 1994.

Americans with Disabilities Act: A Planning Guide for Communities (2 pgs), National Organization on Disabilities pamphlet, 1990.

Americans With Disabilities Act: Public Law 101-335 (35 pgs), 101st U.S. Congress, 1990.

Analysis of Section 18: State Management Plans (10 pgs), USDOT, 1986.

Commercial Drivers License in Kansas: Questions and Answers (8 pgs), *RTAP Facts Sheet*, 1990.

Economic Impacts of SEPTA on the Regional and State Economy, The (125 pgs), USDOT/ The Urban Institute, 1991.

Federal Register Part II: Drug and Alcohol Testing Programs: Proposed Rules (75 pgs), USDOT, 1992.

Federal Register Part IX: Drug and Alcohol Testing Programs: Proposed Rules (7 pgs), USDOT, 1992.

Federal Register Part VI: Drug and Alcohol Testing Programs: Proposed Rules (65 pgs), USDOT, 1992.

Federal Register, Part V: Equal Employment Opportunity Commission (29 pgs), EEOC, 1991.

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Other Sources for Videos and Publications

Most of the items in our lending library are available free of charge. However, there are many useful training resources available for a fee. Here is a list of where you can get some of our more frequently requested “fee” resources—and some more free resources, as well.

General Topics

Bureau of Transportation Statistics

(BTS)—400 Seventh Street SW, Room 3430, Washington, DC 20590
(202) 366-1270

Web site: www.bts.gov

Statistical, mapping and transportation analysis publications and databases.

Transportation Research Information Service (TRIS Online)—

<http://tris.amti.com/>

Free searchable online database of more than 400,000 books, journal articles and technical reports on transportation research from the 1960s to the present.

Highway Topics

AAA Foundation for Traffic Safety—

1440 New York Avenue NW, Suite 201, Washington, DC 20005
(202) 638-5944

Web site: <http://aaafoundation.org>

Safety-related videos and publications on driving, pedestrians and bicycling.

American Public Works Association

(APWA)—2345 Grand Blvd., Suite 500, Kansas City, MO 64108-2641
(816) 472-6100

Web site: www.apwa.net

Videos and publications on a wide variety of topics of interest to highway agencies. Videos of APWA teleconferences are also available.

American Road and Transportation Builders Association (ARTBA)—

The ARTBA Bldg., 1010 Massachusetts Avenue NW, Washington, DC 20001-5204, (202) 289-4434

Web site: www.artba-hq.org

Videos, training programs and publications on construction safety, OSHA compliance and management issues.

American Traffic Safety Services Association (ATSSA)—

15 Riverside Parkway, Suite 100, Fredericksburg, VA 22401
(504) 368-1701

Web site: www.atsaa.com

Traffic safety videos and publications. Also has the MUTCD on CD-ROM.

American Assoc. of State Highway and Transportation Officials

(AASHTO)—444 N. Capitol Street, Suite 249, Washington, DC 20001
(202) 624-5800

Web site: www.transportation.org

Publications and computer-assisted transportation training programs.

International Road Federation—

1010 Massachusetts Avenue NW, Suite 410, Washington, DC 20001
(202) 371-5544

Web site: www.irfnet.org

Videos and publications on road engineering and traffic control, etc.

The Manual on Uniform Traffic Control Devices (MUTCD)—The

Manual on Uniform Traffic Control Devices can be purchased on CD-ROM from ATSSA (see above) or in print from the Government Printing Office (GPO) in Pittsburgh, PA. You can reach the GPO at (202) 512-1800.

Web site: <http://mutcd.fhwa.dot.gov/>

National Asphalt Paving Association

(NAPA)—NAPA Building, 5100 Forbes Blvd., Lanham, MD 20706-4413
(301) 731-4748

Web site: www.hotmix.org

Videos and publications on hot mix asphalt topics.

National Association of Counties

(NACE)—440 First Street, Washington, DC 20001-2028

(202) 393-5041

Web site: www.naco.org/affils/nace/

Publications and videos of interest to county highway engineers and road superintendents. Also has videos for loan produced by the FHWA for the SHRP program.

National Highway Traffic Safety

Administration—400 7th Street NW, Washington, DC 20950

(202) 366-0123

Web site: www.nhtsa.dot.gov

Publications and videos on traffic safety. Most selections are free of charge.

Safety Shorts—950 Gemini, Suite 1,

Houston, TX 77058

(281) 956-1028

Web site: www.safetysshorts.com

Videos and computer-based training on safety topics and OSHA compliance.

Transit Topics

American Public Transportation

Association (APTA)—1201 New York Avenue NW, 1666K St. NW, Washington, DC 20005-3917
(202) 898-4020

Web site: www.apta.com

On-line transit publication and distribution site for free publications of the Transit Cooperative Research Program.

Community Transportation

Association of America (CTAA)

National Transit Resource Center—
(800) 527-8279

Web site: www.ctaa.org/ntrc

Publications and telephone hotline for community transportation.

Project ACTION—700 13th Street NW,

Suite 200, Washington, DC 20005

(202) 347-3066

Web site: www.projectaction.org

Training and technical assistance materials developed to improve ADA-related transit service.