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TAC Publication Primer: Evaluating Soil and Material Stabilization Products

PRM-ESMSP-E

The Transportation Association of Canada (TAC) has released a Publication Primer on Evaluating Soil and Material Stabilization Products. For more information on the subject, refer to the recently-released national guideline [Guide to Evaluating Soil and Material Stabilization Products](#), which is available for purchase in the [TAC Bookstore](#).

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2022

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Guide to Utility Coordination on Public-Private Partnership (P3) Projects (2021)

PTM-UCP3P-E

As road rights-of-way have become more crowded and complex, the lack of effective utility coordination can quickly lead to increased costs and decreased efficiency. [Guide to Utility Coordination on Public-Private Partnership \(P3\) Projects](#) aims to improve utility coordination on P3 projects by helping project stakeholders create efficient and consistent processes for utility relocations. Public and private agencies with an existing coordination process can use the guide to ensure quality and consistency. For agencies without an existing process, it offers a template that they can customize.

The guide describes the step-by-step coordination of utilities through the five phases of Planning, Request for Proposal (RFP) Documentation Preparation, In-Market Design, Project Implementation, and Post-Construction. An accompanying flow chart summarizes the five phases presented in the guide.

View the [Table of Contents](#)

Guide to Utility Coordination on Public-Private Partnership (P3) Projects was developed by a team of 12 volunteers from TAC's Public Utilities Management Subcommittee. Free distribution of the guide in PDF format has been made possible by the financial support of the following organizations:

4M





Media type: PDF
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2021

Free



Performance-Based Decision Making for Asset Management: Lessons Learned and Practitioner Toolkit (2021)

PTM-PBDM-E

Transportation agencies are increasingly required to make investments using cross-asset trade-offs and optimization methods. These performance-based approaches to decision making can support desired outcomes while encouraging fiscal responsibility, accountability and transparency in governance.

There is still much to learn about performance-based decision making techniques, and many agencies seek examples and practical tools. This report helps close that gap by synthesizing lessons learned, presenting several case studies, and providing a toolkit to help practitioners optimize asset management decisions.

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This publication is available in [French](#).

Media type: PDF
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2021

Free



Best Practices for Pothole Repairs in Canada (2019)

PTM-BPPRC-E

Potholes are a dangerous and costly nuisance, and the only way to keep them from coming back is to repair them effectively. However, long-lasting fixes aren't easy.

This report identifies and describes current Canadian and international agency pothole repair best practices. It also recommends seasonal strategies for temporary and long-term patching, and for evaluating and selecting patching products that lead to improved performance of asphalt and chip seal roadways. Finally, it provides guidelines for evaluating new patching products, including laboratory and field testing.

Recommendations in the report address public communications; repair guidelines; performance measurement; prevention, maintenance and preservation; and training.

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Media type: eBook, Print
2019

Member Price: \$ 99.00, Regular Price:
\$ 129.00



Primer on Best Practices for Pothole Repairs in Canada (2019)

PRM-BPPRC-E

For more information on this subject, refer to *Best Practices for Pothole Repairs in Canada*(2019)

Media type: PDF

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2019

Free



Traffic Monitoring Practices Guide for Canadian Provinces and Municipalities (2017)

PTM-TMPG-E

The *Traffic Monitoring Practices Guide for Canadian Provinces and Municipalities* provides the first national-level guidance on the planning, design, and implementation of traffic monitoring programs in Canada. The Guide is intended to promote uniformity in the approach and techniques used to deliver traffic monitoring programs, and to improve the quality of the traffic data provided by these programs. It makes frequent reference to existing guidance and standards available elsewhere (principally in the United States), but accounts for the uniqueness of the Canadian context.

The scope of the Guide covers all functions within a traffic monitoring program: design and evaluation; data collection and analysis; and reporting traffic data. Separate guidance is provided for motorized and non-motorized modes. It also addresses the unique issues and challenges associated with monitoring interrupted traffic flow conditions, which are common in urban environments.

This publication is intended for transportation professionals involved in the planning, design, implementation, and management of traffic monitoring programs, as well as those with responsibilities involving the application of traffic data.

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Media type: eBook, Print

2017

Member Price: \$ 199.00, Regular Price:
\$ 259.00



Guide to Load Management for Weak Pavement Structures (2017)

PTM-LMWPS-E

The *Guide to Load Management for Weak Pavement Structures* provides a synthesis of Canadian and international practices for managing weak pavement structures in northern climates. It includes a set of recommended best practices for managing these pavements through periods of freezing and thawing as well as for year-round pavement management. An economic basis for making load management decisions for weak pavement structures is presented. The Guide also contains a decision support framework, which can be adapted by any Canadian road authority and assists in making economically-rational and defensible decisions with respect to restricting loads on weak pavement structures.

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Media type: eBook, Print

2017

Member Price: \$ 79.00, Regular Price:
\$ 105.00



Synthesis of Transportation Asset Management Best Practices for Canada

PTM-STAMPB-E

Associated with: Chief Engineers' Council / Asset Management Task Force

This synthesis of practices is based on information obtained by an extensive literature review, a targeted survey of transportation agencies across Canada, follow-up telephone and face-to-face interviews, and interviews and discussions with asset management experts including technical staff representing private sector, municipal, provincial and federal agencies and not-for-profit industry groups across Canada.

The report is organized according to the International Standard Organization (ISO) 55000 asset management standard, with each chapter, and all sections within the chapters, following the ISO 55000 asset management system elements. Each section of the document includes the following three sub-sections:

International Practice: A summary of the ISO 55000 Asset Management System element;

Canadian Practice Summary: A description of Canadian practice related to the ISO 55000 Asset Management System element; and

Highlight of Canadian Best Practice: Examples or reference to Canadian agency practice related to the ISO 55000 Asset Management System element.

There is a strong movement in Canada for agencies to integrate investment planning and programming and move away from traditional silo-based infrastructure management systems into one comprehensive system. Agencies are moving toward systems that track asset performance from construction to retirement and use life cycle cost to make whole life maintenance and rehabilitation investment decisions. These systems report on achievements in maintaining and improving asset condition as measured by key performance measures. This synthesis can be used to help agencies to develop an asset management plan, as well as to identify gaps and deficiencies for continued improvement.

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Media type: eBook, Print

2016

Member Price: \$ 109.00, Regular Price:
\$ 149.00



Pavement Asset Design and Management Guide

PTM-PADMG-E

This Guide is a consolidation of Canadian pavement design and management practices. It provides a theoretical understanding of issues, a summary of best practices and is intended to be applicable across Canada for varying conditions and jurisdictions. Tools for the management of transportation infrastructure assets are included.

The Guide emphasizes routine maintenance and preservation as important aspects of pavement management. Key industry issues such as sustainability, climate change and new innovations are highlighted. Low volume road design and management is addressed. The Guide explicitly highlights provincial practices in addition to municipal practices. State-of-the-art is explored and future opportunities are identified throughout the Guide.

The document is a guide rather than a comprehensive design manual and each of its fifteen chapters provides numerous additional resources for further reference.

The Guide is intended for a diverse range of users, practitioners and managers. Academic users will find this Guide a valuable reference. The private and public sector will use the Guide as a design and management tool, particularly when training new technologists, engineers and managers.

This Guide replaces the previous version, *Pavement Design and Management Guide* (1997).

Special for students: Full-time students providing proof of eligibility can buy this publication for \$199. Email publications@tac-atc.ca your academic program name, course title, name of professor or dean, and copy of your student ID, for instructions. Call 613-736-1350 with questions.

Media type: eBook, Print

2013

Member Price: \$ 299.00, Regular Price:
\$ 399.00



PRIMER: Pavement Asset Design and Management Guide

PRM-PADMG-E

For more on this subject, refer to *Pavement Asset Design and Management Guide* (2013), PTM-PADMG-E, available for purchase in the TAC Bookstore.

http://tac-atc.ca/sites/tac-atc.ca/files/site/doc/resources/padmg_primer_for_publishing.pdf

Media type: PDF

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2013

Free



Guide to Bridge Management

PTM-BRIDGEMGMT

Many Canadian bridges have reached the end of their serviceable lives (50 to 80 years) and many more are approaching the same condition. In addition, the cost of bridge maintenance has been rising over the years and deficient bridges are becoming more prevalent. TAC's Guide to Bridge Management provides tools and strategies for professionals to identify conditions and deficiencies, to assess needs and to evaluate costs, such that appropriate investments are made in the areas of greatest need. The Guide may also be a valuable reference tool for owners and consultants, providing assistance in the judgment of engineering services for bridge management, on the basis of a common terminology and attributes.

The Guide provides a description of existing bridge management functions and the most effective practices and activities that could be implemented. Chapter topics cover:

bridge management overview (for senior managers)

bridge anatomy and components

bridge deficiencies

management, operations and maintenance (for managers)

bridge inspection

evaluation

references.

The Guide will be of use to both municipalities and provinces/territories, to assist in the development of reasonable management practices for bridge infrastructure. It is designed so that it can be applied to unique bridge structures or elements, or an overall network of bridges.

For those with a bridge management best practice in place, this Guide will provide a wealth of additional information. For those without such a system and looking to establish one, this Guide will prove very helpful in needs determination.

Media type: eBook, Print

2004

Member Price: \$ 49.00, Regular Price:
\$ 69.00



Standardization of IRI Data Collection and Reporting in Canada

PTM-IRIDATA

The International Roughness Index (IRI) is a widely used, internationally recognized index of roadway surface roughness. This TAC study was commissioned to develop practices to standardize collection, reporting and use of IRI data in Canada. The scope of the study was limited to the use of IRI on rural roadway applications (recognizing that urban conditions will be encountered in some instances), and on flexible (asphalt concrete) pavements systems which comprise virtually all rural highway infrastructure in Canada.

The study focused on identifying: The "State-of-the Technology" as it relates to data collection hardware, data collection methodology and practices, and software and processing that will provide an IRI value from a roadway longitudinal profile measurement, and The "State-of-the-Practice" as it relates to how the processed IRI data are stored, assembled, interpreted and used by transportation agencies.

A survey to obtain and update the practices of Canadian, US and International jurisdictions that use or are in the process of implementing IRI for network, project and construction smoothness QC/CA purposes was carried out. A survey of manufacturers of inertial profiler systems to solicit detailed electrical, technical and operational information was also undertaken. This study has resulted in the development of the "Best Practices Guidelines" that will standardize the measurement, calibration and verification of roadway longitudinal profile data collected using high-speed laser-based profilers, and profile analysis and IRI reporting procedures.

Media type: eBook, Print

2001

Member Price: \$ 49.00, Regular Price:
\$ 69.00



PRIMER: Highway Asset Management Systems

PRM-ASSETMGMT

TAC's primer on highway asset management systems introduces the concepts of asset management, outlines the potential benefits and describes how to successfully plan and implement an asset management system. Managing highway assets is not a new concept; highway agencies have been using pavement, bridge and maintenance management systems for decades. What sets asset management systems apart today is the move to merge these single-asset management systems into an integrated whole. Asset management is a comprehensive process that allocates funds effectively and efficiently among competing pavement, structure and other infrastructure needs.

This document will be of interest to all government transportation and finance departments at the federal, provincial and municipal levels, as well as academics, associations and private sector firms who have an interest in asset management systems and procedures.

Disponible en français : *NOTIONS ÉLÉMENTAIRES : Les systèmes de gestion des éléments d'actif routiers : notions fondamentales* (1999)

Media type: PDF

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