



PUBLICATIONS



Transportation Association of Canada
Association des transports du Canada

www.tac-atc.ca

LOOKING AHEAD!

Keep your eye out for TAC publications on the following topics:

- ◆ Accessible pedestrian signals
- ◆ Bicycle traffic pavement markings
- ◆ Framework for the application of intelligent transportation systems (ITS) for traffic management
- ◆ Management of utilities in rights-of-way
- ◆ Practitioners' handbook: traffic signal warrants
- ◆ Road features inventory
- ◆ Roundabout priority topics
- ◆ School and playground areas and zones: guidelines for implementation and application
- ◆ Structural waterproofing systems best practices guide
- ◆ Traffic signal guidelines for bicycles

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L'ATC vous offrira prochainement plusieurs publications sur les sujets suivants :

- ◆ Signaux adaptés pour piétons
- ◆ Marquage des voies cyclables
- ◆ Cadre d'application des systèmes de transports intelligents (STI) à la gestion de la circulation automobile
- ◆ Gestion des services publics situés dans les emprises routières
- ◆ Manuel des prescriptions d'installation des feux de signalisation à l'intention des praticiens
- ◆ Répertoire des caractéristiques des routes
- ◆ Principaux sujets d'intérêt concernant les carrefours giratoires
- ◆ Zones scolaires et de terrains de jeux : lignes directrices d'application
- ◆ Guide des meilleures pratiques d'imperméabilisation des structures
- ◆ Lignes directrices afférentes aux dispositifs de signalisation pour la circulation cycliste

Transportation Association of Canada
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Ottawa, Canada K1G 4J8

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2323, boul. Saint-Laurent
Ottawa, Canada K1G 4J8

March 2006

Mars 2006

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- ◆ **Environmental assessment procedures in Canada and their implications for transportation: synthesis of practice no. 1 (1994)** – \$15
- ◆ **Guide national du contrôle de l'érosion et de la sédimentation associées aux projets routiers (2005)**
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- ◆ **Management of road construction and maintenance wastes (1994)**
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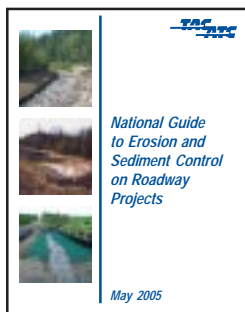
GUIDE DE GESTION DES SELS DE VOIRIE (1999)



Cet ouvrage se veut un outil de référence exhaustif qui porte sur trois thèmes centraux : les incidences des transports sur l'économie du pays et la qualité de vie des Canadiens, l'épandage du sel routier et l'environnement, et les pratiques de gestion du sel d'épandage. Comptant au-delà de 290 pages, ce guide comporte neuf codes des pratiques qui traitent de la conception des centres de voirie, du drainage et de la gestion des eaux de ruissellement, des bonnes pratiques de gestion interne, de la conception des chaussées, de la conception des routes et des ponts, de la gestion de la végétation et des équipements d'entretien routier hivernal et des plans de gestion des sels de voirie. Le guide s'accompagne également d'un rapport synoptique sur l'utilisation du sel à l'appui des opérations de déneigement et de déglacage des routes. S'adressant au grand public, ce rapport traite de la nécessité d'utiliser du sel d'épandage routier pour garantir la sécurité des automobilistes au Canada.

Copie papier – N-M : 399 \$ - M : 225 \$ CD-ROM – N-M : 99 \$ - M : 79 \$

NATIONAL GUIDE TO EROSION AND SEDIMENT CONTROL ON ROADWAY PROJECTS (2005)



TAC's National Guide to Erosion and Sediment Control on Roadway Projects is a "must have" publication for road agency personnel, consultants, contractors and regulators. It identifies tools and steps to design and implement erosion and sediment control plans for road system planning, construction and maintenance, in both the urban and rural context.

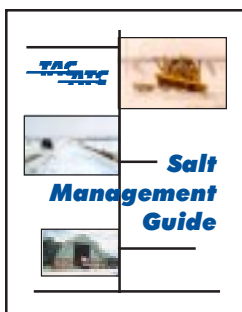
The publication provides guidance in terms of defining risk and level of effort, selecting methodologies for analysis and design, choosing mitigation measures, and meeting legislation and regulatory requirements. It also highlights regional differences in soil, vegetation and climate conditions that must be taken into account when creating a control plan.

The 122 page Guide contains both a theory section covering legislation, physical processes and risk assessment, and an applied section addressing factors such as site assessment and selection of best practices.

Hard copy version – N-M: \$199- M: \$149 CD ROM version – N-M: \$179 - M: \$129

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SALT MANAGEMENT GUIDE (1999)



The Transportation Association of Canada's publication, Salt Management Guide, is a comprehensive reference tool that addresses three key themes: transportation in relation to Canada's economy and quality of life, road salt and the environment and salt management practices. The 275 + page Guide includes nine Codes of Practice dealing with the design of road maintenance yards, drainage and storm water management, good housekeeping practices, pavement design, road and bridge design, vegetation management, winter maintenance equipment and salt management plans. The Guide also includes a Road Salt and Snow and Ice Control Primer, which explains to a more general audience, the relationship between road salt practices and road safety.

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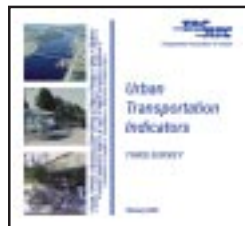
PLANNING, ECONOMICS AND R&D / PLANIFICATION, ÉCONOMIE ET R-D



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- ◆ **Urban transportation indicators: 1996 survey 2 (1996)**
– N-M: \$149 - M: \$95

URBAN TRANSPORTATION INDICATORS - THIRD SURVEY (2005)



TAC has now released the results of its third survey on the health of transportation in major urban Canadian centers. Conducted in 2003 and based on the 2001 census, the survey represents a comprehensive look at a variety of transportation trends and revisits issues such as land use and urban structure, transportation demand and supply, transportation financing and spending and overall transportation use and environmental implications. All 27 Census Metropolitan Areas participated, although the level of their participation does vary.

The 2-volume report, offered on CD, describes the survey process and results, draws conclusions on trends from the resulting database and discusses progress towards achieving the TAC Vision for Urban Transportation, in light of the survey findings and in comparison to international data.

The CD also provides an Excel database of the information upon which the report and the profiles are based, as well as the raw data for the previous 1991 and 1996 surveys.

CD-ROM version – N-M: \$139 - M: \$99

INDICATEURS DE TRANSPORTS URBAINS – TROISIÈME ENQUÊTE (2005)



L'ATC vient tout juste de publier les résultats de sa troisième enquête sur la santé des transports dans les principaux centres urbains canadiens. Exécutée en 2003 et fondée sur des données de recensement de 2001, l'enquête propose un tour d'horizon exhaustif d'une gamme de tendances dans les transports en plus de réexaminer différentes questions comme l'utilisation des terres et de la structure urbaine, l'offre et la demande en transports, le financement des transports, les dépenses globales consacrées à ces derniers et leurs incidences environnementales. Toutes les 27 régions métropolitaines de recensement ont participé à cette enquête, bien qu'à des degrés différents.

Le rapport, en deux volumes, est offert en version CD. Il décrit le processus d'enquête et les résultats de cette dernière, tire des conclusions sur les tendances en regard des grandes bases de données constituées sur le sujet et finalement, il propose une discussion des progrès accomplis à l'appui de la concrétisation de la Vision des transports urbains de l'ATC, le tout à la lumière des conclusions de l'enquête et par comparaison avec d'autres données internationales.

Le CD contient une base Excel de données d'information sur laquelle le rapport et les profils connexes ont été fondés. Il contient également des données brutes concernant les enquêtes antérieures de 1991 et 1996.

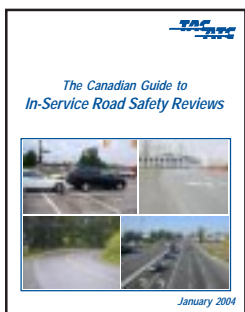
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ROAD SAFETY / SÉCURITÉ ROUTIÈRE



- ◆ **Safety analysis of roadway geometry and ancillary features (1996)**
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- ◆ **The Canadian road safety audit guide (2001)**
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– CD ROM version – N-M: \$99 - M: \$75

THE CANADIAN GUIDE TO IN-SERVICE ROAD SAFETY REVIEWS (2004)



The Canadian Guide to In-service Road Safety Reviews is a practical guide for conducting reviews on existing roads, based on the current experience and expertise in Canada and internationally. A companion guide to TAC's Canadian Road Safety Audit Guide, this new publication provides guidelines to traffic practitioners on how to upgrade the operational and physical characteristics of existing in-service roads to be more compatible with current traffic conditions and safety knowledge.

The Guide is subdivided into the following sections: Introduction; Safety Management Systems; Data Management; Network Screening; Engineering Analysis, Countermeasures; Evaluating Road Safety Improvements; and Getting Started.

The Guide would be of greatest interest to those individuals responsible for commissioning and conducting in-service road safety studies.

Hard copy version – N-M: \$239 - M: \$169

CD ROM version – N-M: \$219 - M: \$149

GUIDE CANADIEN DES ÉTUDES DE SÉCURITÉ DES ROUTES EN SERVICE (2004)



Cet ouvrage se présente comme un guide pratique d'exécution des examens de sécurité des routes en service. Les pratiques recommandées dans ce guide sont non seulement fondées sur l'expérience actuelle du Canada et de la communauté internationale en la matière, mais encore sur les plus récents résultats des recherches en ingénierie de la sécurité, dans la mesure où ceux-ci s'appliquent au contexte canadien. Le guide a pour but de préconiser les meilleures pratiques de l'heure, de manière à permettre aux professionnels des transports d'utiliser leurs ressources de façon optimale.

Ce guide de 159 pages se révélera des plus utiles aux personnes qui sont responsables de l'exécution d'études de sécurité et qui s'intéressent à la tenue d'examens de sécurité des routes en service.

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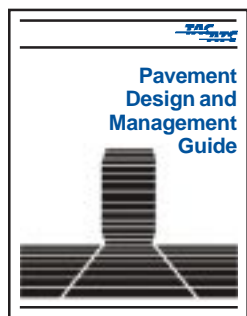
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- ◆ **Standardization of IRI data collection and reporting in Canada (2001)**
– N-M: \$99 - M: \$69
- ◆ **TAC user guide to CAN/CGSB-16.3-M90 “Asphalt cements for road purposes” (1996)** – N-M: \$30 - M: \$20
- ◆ **Utilization of recycled tire rubber in asphalt pavements (1996)**
– N-M: \$67.50 - M: \$45

PAVEMENT DESIGN AND MANAGEMENT GUIDE (1997)



This is a guide to management practices for rigid and flexible pavements in Canada. Elements such as pavement evaluation, materials, structural design, construction, maintenance, and guidelines for implementing a pavement management system are presented. The guide is recommended to all those with responsibility for expending public funds on roads. 389 p.

N-M: \$142.50 - M: \$95

CANADIAN STRATEGIC HIGHWAY RESEARCH PROGRAM (C-SHRP) / PROGRAMME STRATÉGIQUE DE RECHERCHE ROUTIÈRE DU CANADA (C-SHRP) :

- ◆ **C-SHRP Phase III program proposal 1999-2004 (1998)**
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- ◆ **Canadian Long Term Pavement Performance (C-LTPP) database user's guide (1997)** – N-M: \$30 - M: \$20

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ROADWAY DESIGN / CONCEPTION DE ROUTES



- ◆ **Best practices for the implementation of shoulder and centreline rumble strips: Synthesis of practice no. 8 (2001)** – N-M: \$59 - M: \$39
- ◆ **Canadian Guide to 3R/4R (2001)** – N-M: \$179 - M: \$129
- ◆ **Design vehicle dimensions for use in geometric design (1997)**
– N-M: \$45 - M: \$30
- ◆ **Drainage manual - volumes 1 (1982) and 2 (1987) – CD ROM** – \$46
- ◆ **Guide to bridge hydraulics (2001)** – N-M: \$349 - M: \$199
- ◆ **Illumination of isolated rural intersections (2001)** – N-M: \$149 - M: \$99
- ◆ **Metric curve tables: circular and spiral curve functions for layout purposes (1977)** – N-M: \$45 - M: \$30
- ◆ **Study of natural gas pipeline placement in rural road right-of-ways (2001)**
– CD ROM or Hard copy version – N-M: \$189 - M: \$129

GEOMETRIC DESIGN GUIDE FOR CANADIAN ROADS (1999)



This edition of the guide updates, combines and replaces the 1986 Geometric design guide and the Urban supplement to the geometric design guide for Canadian roads. New information in the guide includes provision of explicit discussions regarding road safety throughout the guide, as well as a chapter devoted to “roadside safety” and the introduction of the concept of “design domain.” Plus, there are many other new/expanded areas covering design consistency, roundabouts, rumble strips, truck escape ramps, design vehicle dimensions, retrofit design, aesthetics, ramp design speed for trucks and pedestrian accommodation. The major divisions within the guide are Principles of Design, Elements of Design, Special Design Features, and Supporting Material. 830 p.

N-M: \$715 - M: \$475

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GUIDE CANADIEN DE CONCEPTION GÉOMÉTRIQUE DES ROUTES (1999)



Publié par l'Association des transports du Canada et traduit par l'Association québécoise du transport et des routes (AQTR), ce guide constitue le principal ouvrage de référence au pays en matière de conception géométrique des routes. L'ouvrage de 840 pages se présente en deux parties qui traitent, par le biais de quatre grandes sections, de la notion de domaine de définition.

Volume 1 – Principes de conception - Ce volume comporte un aperçu de la philosophie/méthodologie évolutive de la conception géométrique des routes, laquelle met dorénavant l'accent sur les coûts et les avantages de la sécurité.

Volume 2 – Éléments de conception - Ce volume traite des éléments fondamentaux de la géométrie des routes : tracé en plan, configuration des voies, éléments du profil en travers, carrefours et échangeurs.

Volume 3 – Éléments de conception particuliers - Ce volume propose des considérations de conception des éléments constituant d'une route autres que les voies de circulation : sécurité des abords de route, accès, aménagement esthétique des rues, voies cyclables, aménagements péépihériques.

Volume 4 – Documents à l'appui.

N-M : 715 \$ - M : 475 \$

BEST PRACTICE GUIDELINES FOR THE DESIGN AND APPLICATION OF TRANSVERSE RUMBLE STRIPS (2005)



Transverse rumble strips (TRS) are used to warn drivers of an imminent and unusual change in the driving environment that requires greater driver awareness, such as approaches to stop controlled intersections, roundabouts, work zones, etc.

Roadway officials have installed TRS for many years but there were no Canadian guidelines available. TAC recognized the need for cohesive guidelines that could be applied on a national level and initiated the creation of this document as a solution.

Hard copy version: – N-M: \$79 - M: \$59

CD-ROM version – N-M: \$75 - M: \$55

LIGNES DIRECTRICES SUR LES BONNES PRATIQUES DE CONCEPTION ET DE MISE EN PLACE DE BANDES D'ALERTE TRANSVERSALES (2005)



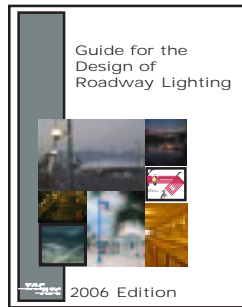
Les bandes d'alerte transversales (BAT) servent à prévenir les conducteurs d'un changement imminent et inhabituel des conditions de circulation, changement exigeant une attention accrue et immédiate de la part des automobilistes. C'est notamment le cas des voies d'approche des intersections contrôlées par des arrêts, des carrefours giratoires, des zones de travaux, etc.

Les responsables de la circulation routière ont installé des BAT depuis nombre d'années, mais sans pour autant se fonder sur des lignes directrices canadiennes en la matière. L'ATC a reconnu le besoin d'établir des lignes directrices cohérentes qui pourraient être appliquées à l'échelle nationale et dans cette perspective, elle s'est employée à préparer un ouvrage en guise de solution.

Copie papier – N-M : 79 \$ - M : 59 \$

CD-ROM – N-M : 75 \$ - M : 55 \$

GUIDE FOR THE DESIGN OF ROADWAY LIGHTING (2006)



TAC's new 2006 Guide is intended to promote uniformity in lighting across Canada by providing guidance in the planning and design of roadway lighting and related outdoor lighting systems.

The 430 page publication is divided into two major sections - Fundamentals and Design:

- ◆ "Fundamentals" contains information on lighting theory, obtrusive light, the planning and design process, standards and codes, calculations and the use of computer software in roadway design and maintenance.
- ◆ "Design" applies the principles and information presented in the first section to specific facilities that may require lighting, such as roadways, interchanges, intersections, roundabouts and tunnels. Also included are off-road facilities such as pedestrian and bicycle pathways, weigh scales, rest areas and road signs. This section also provides guidelines for streetscapes, temporary roadway lighting and work zone lighting for road construction areas.

The Guide offers warranting criteria for each roadway application, with the warrants provided as a point-score system, a narrative definition or a combination of both.

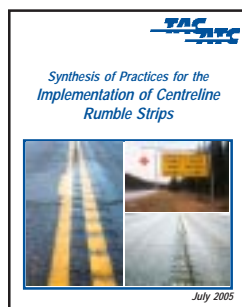
In addition, the Guide covers a number of other related topics. It emphasizes that roadway lighting, if properly designed, installed and maintained, should reduce vehicle collisions, improve safety for cyclists and pedestrians and enhance personal security. It also discusses ongoing trends in the development of more energy-efficient light sources, as well as the need to consider alternatives to lighting.

The Guide is produced in full colour to ensure maximum comprehension of the concepts presented.

\$100 from the sale of each Guide is placed in a designated TAC reserve fund to support future updates and revisions of the Guide.

Hard copy version: N-M: \$599 - M: \$399 CD ROM version: N-M: \$549 - M: \$349

SYNTHESIS OF PRACTICES FOR THE IMPLEMENTATION OF CENTRELINE RUMBLE STRIPS (2005)



Rumble strips are raised or grooved patterns installed on the road surface to provide an auditory warning (rumbling sound) and a physical vibration to alert drivers that they are leaving the travel lane.

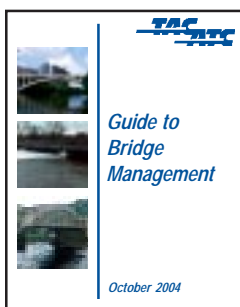
Centreline rumble strips (CRS) are applied along the centre of undivided roadways and generally used to prevent head-on collisions. The purpose of this publication is to review and synthesize current literature and practices on CRS's in North America and internationally and to recommend an appropriate update to TAC's Geometric Design Guide for Canadian Roads.

Hard copy version: N-M: \$79 - M: \$59 CD ROM version: N-M: \$75 - M: \$55

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GUIDE TO BRIDGE MANAGEMENT (2004)



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.

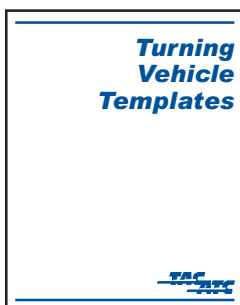
The 82-page Guide provides a description of existing bridge management functions and the most effective practices and activities that could be implemented. Chapter topics cover: bridge management overview (for senior managers); bridge anatomy and components; bridge deficiencies; management, operations and maintenance (for managers); bridge inspection; evaluation and 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.

Hard copy version: N-M: \$169 - M: \$129 CD ROM version: N-M: \$119 - M: \$89

TURNING VEHICLE TEMPLATES (1993)



The new package contains templates for vehicles described in the TAC Memorandum of Understanding on interprovincial weights and dimensions. Plastic templates show low-speed turning paths in two scales for vehicles including passenger cars, single-unit trucks, single-unit and articulated buses, tractor semi-trailers and A-Train and B-Train combination vehicles.

N-M: \$425 - M: \$300

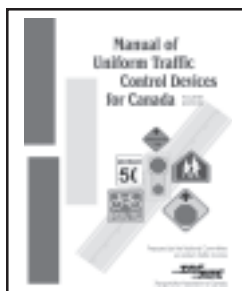
TRAFFIC CONTROL / RÉGULATION DE LA CIRCULATION



- ◆ **Bikeway traffic control guidelines for Canada (1999)**
– N-M: \$115 - M: \$75
- ◆ **Canadian capacity guide for signalized intersections (1996)**
– N-M: \$45 - M: \$35
- ◆ **Canadian guide to neighbourhood traffic calming (1999)**
– N-M: \$145 - M: \$95
- ◆ **Canadian model rules of the road (1996)** – N-M: \$45 - M: \$30

- ◆ **Guide canadien d'aménagement de rues conviviales (2001)**
– N-M: 145 \$ - M: 95 \$
- ◆ **Guide canadien de signalisation des voies cyclables (1999)**
– N-M: 115 \$ - M: 75 \$
- ◆ **In-line skating review: Phase 2 (1997)** – N-M: \$60 - M: \$40
- ◆ **December 2002 update to the Manual of uniform traffic control devices for Canada (2002)** – N-M: \$99 - M: \$75
- ◆ **March 2000 update to the Manual of uniform traffic control devices for Canada (2000)** – N-M: \$75 - M: \$49
- ◆ **Manual of uniform traffic control devices for Canada: update subscription service for 2001-2002** – N-M: \$99 - M: \$75
- ◆ **Manuel canadien de la signalisation routière - Mise à jour - Décembre 2002** – N-M: 99 \$ - M: 75 \$
- ◆ **Service d'abonnement aux mises à jour du manuel canadien de la signalisation routière 2001-2002** – N-M: 99 \$ - M: 75 \$
- ◆ **Manuel de reproduction des panneaux de signalisation CD-ROM (2001)** – N-M: 225 \$ - M: 149 \$
- ◆ **Pedestrian crossing control manual (1998)** – N-M: \$75 - M: \$49
- ◆ **Sign pattern manual - CD ROM (2001)** – N-M: \$225 - M: \$149
- ◆ **Synthèse sur le patinage sur roues alignées : deuxième étape (1997)**
– N-M: 60 \$ - M: 40 \$

MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR CANADA (1998)



This manual is an essential tool for all professionals involved in traffic management and control. It provides optimum standards and preferred methods in the design, dimensions and applications of devices.

The Signs, Signals and Markings sections have been updated, and the Temporary Conditions section has been expanded. The improved Temporary Conditions section now reflects common work zone component areas and the flexible use of devices based on work duration are included. A decision matrix and more than 60 new typical layouts have also been added. The manual includes all updates released to date of purchase. Updates may also be purchased separately. Looseleaf.

N-M: \$445 - M: \$295

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MANUEL CANADIEN DE LA SIGNALISATION ROUTIÈRE (1998)



Ce manuel est sans contre-dit un outil essentiel pour tous les professionnels s'intéressant à la gestion de la circulation automobile. L'ouvrage propose des normes optimales et les meilleures méthodes au regard de la conception, des dimensions et des applications des dispositifs de signalisation.

Les sections sur les panneaux, les signaux et les marquages ont été mises à jour tandis que celle sur les dispositifs temporaires de signalisation a été enrichie et améliorée. Cette dernière section traite maintenant des aires constituantes communes des zones de travaux et de la souplesse d'utilisation des dispositifs de signalisation pendant la durée des travaux. Une matrice de décision et plus de 60 nouveaux plans types d'aménagement ont été ajoutés à ce manuel à feuilles mobiles.

Le manuel s'accompagne en outre de toutes les mises à jour publiées jusqu'à la date d'achat. Les mises à jour peuvent aussi être achetées séparément à la librairie électronique.

N-M: 445 \$ - M: 295 \$

ADVANCE WARNING FLASHERS: GUIDELINES FOR APPLICATION AND INSTALLATION (2005)



Until this new guide was released, no set practice or uniform guide for the application and implementation of Advanced Warning Flashers (AWFs) existed in Canada. TAC addressed this problem with the release of Advance Warning Flashers: Guidelines for Application and Installation.

The 34-page document (plus six appendices) provides the reader with the following information:

- ◆ A review, evaluation and summary of existing literature;
- ◆ A determination of the advantages and disadvantages of AWFs;
- ◆ A review of the Manual of Uniform Traffic Control Devices for Canada (MUTCDC) and application and installation examples of AWFs in Canada;
- ◆ A review of current North American practices regarding AWF warrants and guidelines;
- ◆ The development of a national guide for applying and installing AWFs across Canada; and
- ◆ An identification of research gaps and the development of a suggested research plan.

It also offers the following installation guidelines at locations meriting an AWF: Location Relative to Stop Line; Timing Relative to Start of Intergreen Phase; Size and Content of the Traffic Sign and, Placement Relative to Number of Lanes.

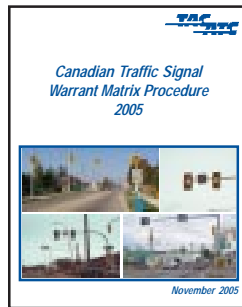
Hard copy version: – N-M: \$99 - M: \$69

CD-ROM version – N-M: \$69 - M: \$49

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CANADIAN TRAFFIC SIGNAL WARRANT MATRIX PROCEDURE (2005)



The Canadian Traffic Signal Warrant Matrix Procedure 2005 is designed to provide a basis for making rational, defensible decisions on the installation of traffic signal control devices at intersections.

The new warrant procedure, which replaces the document entitled Canadian Traffic Signal Warrant Procedure (2003), is built on a foundation of existing practices, combined with relevant adjustment factors to minimize data collection requirements. It is intended to be easy to use, is supported by Canadian experience and is based on Canadian needs.

The document includes revisions to the 2003 procedure as well as calculations of specific factors required to modify movement-by-movement cross-products such as pedestrian exposure factor, a right turn reduction factor and a platoon adjustment factor.

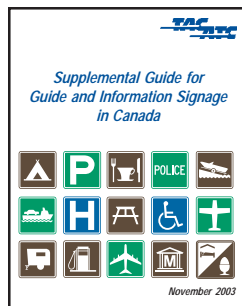
The 2005 procedure will be included in the Manual of Uniform Traffic Control Devices for Canada (MUTCDC) at a later date.

The document is supported by updated software to perform the matrix procedure calculations. The software is provided on a separate CD for the buyers of the hardcopy version of the Procedure.

Hard copy version: – N-M: \$139 - M: \$99

CD-ROM version – N-M: \$129 - M: \$89

SUPPLEMENTAL GUIDE FOR GUIDE AND INFORMATION SIGNAGE IN CANADA (2003)



Supplemental Guide for Guide and Information Signage in Canada is a stand-alone document to be used as a companion to the Manual of Uniform Traffic Control Devices for Canada (MUTCDC). Specifically, it provides additional guidance to two MUTCDC sections: Division A4 (Guide and Information Signs) and Division A5 (Freeway Guide Signs).

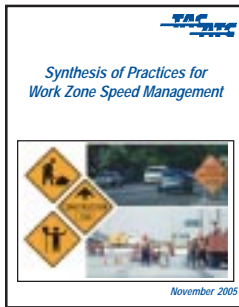
The key objective of the Supplemental Guide is to provide additional information about the guide and information signage for non-freeway and freeway applications in both rural and urban environments. The Supplemental Guide contains summaries of extensive literature reviews of various provincial, federal, USA and international guide signage manuals, other related guides and manuals and various publications relating human factors to the guide signage. The literature review findings were complimented by a jurisdictional survey on guide signage practices within North America.

The MUTCDC will be revised based on the findings from this document. However, numerous sections of the Supplemental Guide will not be included in the upcoming updates to the MUTCDC because the MUTCDC is a concise documents that, in order to provide clear, easy-to- follow and easy-to-locate information, cannot include a high level of detail.

Hard copy version: – N-M: \$199 - M: \$149

CD-ROM version – N-M: \$179 - M: \$129

SYNTHESIS OF PRACTICES FOR WORK ZONE SPEED MANAGEMENT (2005)



Speeding in work zones is one of the most common traffic violations observed by road builders and road maintenance crews. It creates an unsafe environment for road workers and all types of road users.

TAC's Synthesis of Practices for Work Zone Speed Management is intended to help address this situation by reviewing work zone speed management efforts in Canada and the United States. The 114-page (plus three appendices) report provides an overview of technologies and methods for managing speed in work zones, with topics ranging from posted speed limit reductions and narrowing lanes to portable variable message signs and enforcement. In addition, the report discusses other methods for speed management, including merge control, driver and worker education, and real-time traffic information systems. The report also provides a number of conclusions and recommendations based on the synthesis, which identify some of the key problems and solutions.

Hard copy version: – N-M: \$149 - M: \$99

CD-ROM version – N-M: \$129 - M: \$79

OTHER / AUTRE

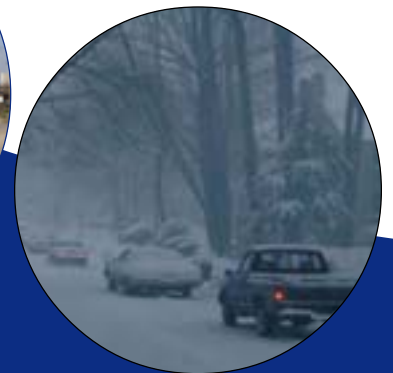


TAC CONFERENCES / CONGRÈS DE L'ATC

- ◆ 2005 conference proceedings / Compte rendu du congrès de 2005 - CD-ROM (2005) – N-M: \$85 - M: \$65
- ◆ 2004 conference proceedings / Compte rendu du congrès de 2004 - CD-ROM (2004) – N-M: \$85 - M: \$65
- ◆ 2003 conference proceedings / Compte rendu du congrès de 2003 - CD-ROM (2003) – N-M: \$85 - M: \$65
- ◆ 2002 conference proceedings / Compte rendu du congrès de 2002 - CD-ROM (2002) – N-M: \$85 - M: \$65
- ◆ 2001 conference proceedings / Compte rendu du congrès de 2001 - CD-ROM (2001) – N-M: \$85 - M: \$65
- ◆ 2000 conference proceedings / Compte rendu du congrès de 2000 - CD-ROM (2000) – N-M: \$85 - M: \$65
- ◆ 1999 conference proceedings / Compte rendu du congrès de 1999 - CD-ROM (1999) – N-M: \$72 - M: \$55
- ◆ 1996 conference workshop proceedings/ Sommaire des délibérations des ateliers du congrès 1996 (1997) – N-M: \$30 - M: \$20
- ◆ 1995 conference workshop proceedings / Sommaire des délibérations des ateliers du congrès 1995 (1996) – N-M: \$30 - M: \$20

VEHICLE WEIGHTS AND DIMENSIONS STUDY / ÉTUDE CANADIENNE SUR LES POIDS ET DIMENSIONS DES VÉHICULES LOURDS

- ◆ Complete set of 15 volumes / Collection complète de 15 volumes - CD-ROM (1986) – N-M: \$150 - M: \$100



PUBLICATIONS

2007

Transportation Association of Canada
Association des transports du Canada

www.tac-atc.ca

GUIDE FOR BRIDGE REPAIR AND REHABILITATION (2007)



The Guide for Bridge Repair and Rehabilitation was developed for bridge owners who may be confronted with requirements for managing a bridge population, or an individual bridge, but who may not have all the detailed knowledge of the state-of-the-art in bridge rehabilitation and repair. It is intended that such users be able to refer to this document to obtain a general overview of bridge rehabilitation and repair, and to enable them to understand when expertise, in the form of external agencies or bridge engineering consultants, should be brought to bear on the issues.

This 226 page Guide contains nine chapters which:

- ♦ provide an introduction to the issues of bridge repair and rehabilitation;
- ♦ review the types of bridge structures that are associated with short, medium, and long span structures, as well as other types of structures such as hybrid, movable, and temporary moveable bridges;
- ♦ provide information on construction material, including asphalt, concrete, steel, masonry, timber, and many more that are used in the construction of bridges;
- ♦ explore the elements of bridges and the types of deterioration that occur on each;
- ♦ review materials used in bridge repair and rehabilitation;
- ♦ describe rehabilitation methodologies; and
- ♦ explore special considerations for bridge repair and rehabilitation, including maintenance, life cycle costing and the aesthetics of rehabilitation. It also reviews social, economic, and environmental considerations.

Hard copy version – N-M: \$349- M: \$199 CD ROM version – N-M: \$309 - M: \$159

SYNTHESIS OF QUALITY MANAGEMENT PRACTICES FOR CANADIAN FLEXIBLE PAVEMENT MATERIALS AND CONSTRUCTION (2007)



This 129-page synthesis reviews current practices for the quality management of materials, production and placement in flexible pavement construction.

More specifically it describes:

- ♦ Design considerations;
- ♦ Flexible pavement materials: granular sub-base / base; hot-mix asphalt aggregates and asphalt cements, and miscellaneous materials such as reclaimed asphalt pavement, tack coat, fillers, fibres and polymer modified asphalt cements;
- ♦ Subgrade preparation;
- ♦ Placement and compaction of granular sub-base and base, and
- ♦ Hot-mix asphalt production and transportation, including environmental control; and hot-mix asphalt paving and compaction - trial section, substrate preparation, tack coats, material transfer devices, joint construction and working with polymer modified asphalts.

The publication also summarizes the quality control and quality assurance sampling, testing and inspection associated with each of these materials and methods, in terms of technician and testing equipment/laboratory requirements to monitor compliance with flexible pavement project quality requirements.

Lastly, the Synthesis of QM Practices offers recommendations for a QM system template based on a contractor's quality control plan and an agency's quality assurance plan.

Hard copy version – N-M: \$115- M: \$89 CD ROM version – N-M: \$105 - M: \$79

2006 CONFERENCE PROCEEDINGS - CD ROM (2006)



The 2006 TAC annual conference proceedings is now available on one handy CD-ROM. The proceedings consists of close to 100 papers presented at conference sessions.

Among the topics covered in the proceedings are: Education, the Environment, Geometric Design, Soils and Materials, Pavements, Structures, Maintenance and Construction, Traffic Operations and Management, Safety, and Municipalities / Urban Areas.

N-M: \$85.00 - M: \$65

N-M - non-member ~ M - TAC member

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SCHOOL AND PLAYGROUND AREAS AND ZONES: GUIDELINES FOR APPLICATION AND IMPLEMENTATION (2006)



There is considerable variety in the local practices in Canada in school and playground areas and zones. For that reason, TAC has developed and released a uniform set of guidelines to cover school and playground areas and zones, as well as the application of traffic control devices for them.

The new Guidelines:

- ♦ Review current practices and existing warrants used in Canada for the application and implementation of school and playground areas and zones;
- ♦ Provide direction for practitioners to objectively assess the need for school and playground areas and zones using sound principles and a transparent, repeatable process; and
- ♦ Provide direction on the proper implementation of school and playground areas and zones, including the selection and location of the signs and pavement markings relative to school and playground properties, as well as for various road classifications.

The Guidelines, which are applicable in both rural and urban areas and to large and small road jurisdictions, are aimed at engineers and practitioners who require a tool to help them decide where school and playground areas and zones may be considered, to prioritize the locations with the greatest need and to implement them effectively.

The 78 page (including appendices) Guidelines, which are also available in French, are intended to support and supplement TAC's *Manual of Uniform Traffic Control Devices for Canada*.

Hard copy version – N-M: \$99- M: \$69

CD ROM version – N-M: \$69 - M: \$49

AIRES ET ZONES SCOLAIRES ET DE TERRAINS DE JEUX : NORMES D'APPLICATION ET DE MISE EN OEUVRE (2006)



Ce guide a comme objet de fournir aux ingénieurs et praticiens partout au Canada un outil pour les aider à décider où l'on doit désigner des aires et des zones scolaires et de terrains de jeux, à les mettre en oeuvre de façon efficace et à identifier les endroits pour lesquels le besoin d'aires et de zones est le plus prioritaire. La pratique actuelle variant considérablement, il existe un besoin pour des lignes directrices uniformes quant à la désignation d'aires et de zones scolaires et de terrains de jeux ainsi que pour l'application de dispositifs de contrôle du trafic dans ces aires et zones.

Les objectifs spécifiques du projet de l'ATC qui a mené à la préparation de ce document étaient les suivants :

- ♦ revoir la pratique et les pouvoirs actuels au Canada quant à l'application et la mise en oeuvre d'aires et de zones scolaires et de terrains de jeux;
- ♦ fournir un guide aux praticiens afin de leur permettre d'évaluer objectivement le besoin d'aires et de zones scolaires et de terrains de jeux en ayant recours à des principes sûrs et un processus transparent et répétable;
- ♦ fournir un guide quant à la mise en oeuvre appropriée de ces critères, incluant le choix et l'emplacement des panneaux et des marquages de chaussées en lien avec les écoles et les terrains de jeux, ainsi que la classification des divers types de routes;
- ♦ préparer un guide pour l'application et la mise en oeuvre d'aires et de zones scolaires et de terrains de jeux, aussi bien pour les milieux urbains que ruraux, que pour les petites et les grandes autorités responsables de la voirie partout au Canada.

Les normes décrites doivent être traitées comme un outil objectif quant à la désignation d'aires et de zones scolaires et de terrains de jeux. Les autorités devront aussi considérer d'autres facteurs tels que les préoccupations des parties prenantes, un jugement sûr des ingénieurs et les procédures et politiques locales, au moment de décider s'il est approprié d'avoir recours aux aires et zones scolaires et de terrains de jeux comme solution au plan de la sécurité routière.

Ce guide de 80 pages, lequel peut également être obtenu en anglais, vient compléter le *Manuel canadien de la signalisation routière* de l'ATC.

Copie papier – N-M : 99 \$ - M : 69 \$ CD-ROM – N-M : 69 \$ - M : 49 \$

N-M - non-membre ~ M - membre de l'ATC

GUIDELINES AND BEST PRACTICES FOR ROAD FEATURES INVENTORIES (2007)



Guidelines and Best Practices for Road Features Inventories covers the entire road features inventory process. The national guidelines are meant to assist practitioners in the design, development, implementation and maintenance of road inventory systems.

In the document, a road features inventory (RFI) is considered to be the process of collecting information on road features and attributes in terms of physical characteristics (such as length, condition, location, etc.) by using a variety of data collection methods, and storing the collected data in ways to ensure data availability for inventory purposes, statistical reporting and decision-making processes.

The 140-page publication emphasizes that the development of a RFI should be carefully thought out, involve input from all stakeholders, and include well-documented methodologies and procedures. Its ten chapters introduce the reader to basic and more complex aspects of RFI, including the RFI inception, development, structuring and use. The key chapters conclude with a summary of guidelines and best practices. A primer, in both English and French, is also included to provide users with a comprehensive methodology for the development of the road features inventories.

Hard copy version – N-M: \$129 - M: \$99 CD ROM version – N-M: \$119 - M: \$89

DEVELOPMENT OF WINTER SEVERITY INDICATORS MODELS FOR CANADIAN WINTER ROAD MAINTENANCE (2007)



This 56-page report discusses the development of a TAC Winter Severity Index. (For report purposes, a winter severity index is defined as a measure of the relative impact of winter weather on winter road maintenance (WRM) operations using historical meteorological or Road Weather Information System (RWIS) data.)

A set of models were developed using Canadian WRM, Meteorological Service of Canada (MSC) and RWIS data. WRM data were collected from across Canada from eight provincial road authorities and seven cities. Salt usage in tonnes (salt (t)/lane-km/day) was chosen as the dependent variable, standardized to account for differences in road network and the number of days in the observation period.

The first model developed, based on MSC data alone, achieved a goodness of fit of 0.54. Explanatory variables were based on snowfall occurrence, air temperature, freezing rain occurrence, and an east-west dummy variable to account for differences in winter road maintenance practices in different parts of Canada. A second model was developed based on MSC data together with RWIS data. This achieved a goodness of fit of 0.60, but was based on a significantly smaller sample size. In this model, pavement temperature was substituted for air temperature. An index was developed based on the predicted values using a scale between 1 and 100.

Calibration factors were developed for twenty different homogeneous groupings across Canada using the Bayesian method. Based on the calibration, thirteen of the twenty groups achieved a better goodness of fit compared to the national model results. The model results show a better performance in heavily populated areas and in eastern Canada.

Hard copy version – N-M: \$79 - M: \$59 CD ROM version – N-M: \$69 - M: \$49

TRAFFIC SIGNAL WARRANT HANDBOOK (2007)



TAC's Traffic Signal Warrant Handbook provides traffic operations practitioners with a guide to using the Canadian Traffic Signal Warrant Matrix Procedure.

The 76-page Handbook, which includes the software to perform the matrix procedure, describes the matrix warrant methodology and is intended to help the practitioner understand the principles and assumptions behind the procedure. The Handbook identifies the input data required for the warrant analysis and describes how each of the warrant components is calculated.

In addition, a number of case studies are presented, with variations on each case study offered, to help the practitioner comprehend the application of the matrix warrant methodology and the sensitivity of each component within the methodology.

Hard copy version – N-M: \$189- M: \$149 CD ROM version – N-M: \$139 - M: \$99