

## Volunteer Projects August 2018

In addition to pooled fund projects, under the auspices of TAC's councils and committees a wide variety of unfunded initiatives are undertaken by the TAC's dedicated volunteer network. In many cases, the initiatives lead to products that, subject to approval of an oversight council, will be released by TAC.

The following table lists the volunteer projects in progress alphabetically.

Project	Responsible Committee	Project Objective / Description
<b>"Anti-Whistling" Sign for Railway Crossings with a Whistling Cessation</b>	Traffic Operations and Management Standing Committee	Develop "Anti-Whistling" sign with the message in a symbol format and establish guidelines for sign placement within the existing railway warning signs system.
<b>Asset Valuation and Quantifying the Infrastructure Deficit in Canada</b>	Asset Management Task Force/ Maintenance and Construction Standing Committee	Develop a synthesis of asset valuation approaches, methodologies, and best practices. Another major component of the project objective is to calculate the Canadian transportation infrastructure deficit.
<b>Best Practice Guide for Street Name Signing</b>	Traffic Operations and Management Standing Committee	Prepare a best practice guide for street name signing based on the <i>Guide de bonnes pratiques – Panneaux de signalisation odonymique</i> (AQTR, 2010).
<b>Canadian Guide for Culvert Maintenance</b>	Maintenance and Constructions Standing Committee	Develop a guide to include best practices for inspection, maintenance and rehabilitation of culverts.
<b>Canadian Road Safety Engineering Handbook</b>	Road Safety Standing Committee	Development of a comprehensive document that will be a practical guide to road safety engineering practice in Canada. It is intended to identify, define and share good practices in road safety engineering in order to assist Canadian road authorities and road safety engineering practitioners in providing service to the public and addressing road safety issues at the local level. The Handbook will comprise a series of publications, a few of which are already available through TAC's bookstore. Other topics that will be covered in the future publications include rural and urban road safety engineering practices, access management and road safety engineering in transportation planning.
<b>Colour for Flagger Ahead Sign</b>	Traffic Operations and Management Standing Committee	Identify the most appropriate colour for use on Flagger Ahead sign and on Flagger paddles.

Project	Responsible Committee	Project Objective / Description
<b>Compendium of Provincial Legal and Regulatory Approaches Supporting Bikeway Geometric Design and Traffic Control Practices</b>	Sustainable Transportation Standing Committee	Develop a best practice resource for information sharing about different approaches used in Canadian jurisdictions.
<b>Decorative Crosswalk Pavement Markings</b>	Traffic Operations and Management Standing Committee	Provide guidance for uniform and consistent practices regarding crosswalk pavement markings in response to increasing number of requests for non-standard colours and graphic designs.
<b>Electrical Vehicle Charging While Parking Signs</b>	Traffic Operations and Management Standing Committee	Create a set of new signs to regulate parking at electric vehicle charging stations.
<b>Enhanced RB-11S2 Tab Sign</b>	Traffic Operations and Management Standing Committee	Develop a proper design for enhancement of time-defined regulatory signs. Revise Section A2.4.2 of the MUTCDC to include an optional active signal enhancement to the supplementary tabs to enable quicker and more effective sign comprehension by road users, resulting in safer school zones.
<b>Environmental Performance Benchmarking</b>	Environmental Issues Management Standing Committee	Develop a briefing document sharing information on environmental performance measures that are meaningful to TAC member agencies.
<b>Fluorescent Yellow-Green Pedestrian Crosswalk Signs</b>	Traffic Operations and Management Standing Committee	Assess the current use and identify effectiveness of fluorescent yellow-green pedestrian crosswalk signs in providing enhanced conspicuity of uncontrolled marked pedestrian crosswalks. Pending results, determine whether it should be recommended for inclusion in the MUTCDC.
<b>Geometric Design for Special Roads</b>	Geometric Design Standing Committee	Prepare a chapter for the new <i>Geometric Design Guide</i> to address special roads-with AADT of 200 vehicles /day and whose functions are oriented to rural road system or within isolated communities, recreational roads and resource development roads.
<b>Invasive Species Management</b>	Environmental Issues Management Standing Committee	Develop a synthesis of best practices resource for prevention activities that are viable and realistic to implement by transportation agencies.
<b>Pavement Preservation Practices in Canada</b>	Pavements Standing Committee	Prepare a summary of pavement preservation practices in Canada.
<b>Pavement Markings Performance Review</b>	Maintenance and Construction Standing Committee	Review the performance as well as maintenance practices for water-based pavement markings.

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<b>Permanent Grooved Pavement Warning Sign</b>	Traffic Operations and Management Standing Committee	Develop a clear, concise and easily recognizable symbol that accurately depicts the pavement condition.
<b>Public and Stakeholder Engagement in Sustainable Transportation</b>	Sustainable Transportation Standing Committee	Prepare a briefing intended to improve the understanding of the challenges involved in public engagement for sustainable transportation projects
<b>Red and Green Arrow Signal Display</b>	Traffic Operations and Management Standing Committee	Investigate the need for the Red Arrow display at existing signalized intersections and review the guidance for application of the Green Arrow display.
<b>Redesign of Graphics of WC-8, WC-12,WC-17</b>	Traffic Operations and Management Standing Committee	Review and redesign graphics for WC-8, WC-10 and WC-17 signs (Truck/ School Bus/ Fire Truck Entrance signs).
<b>Retroreflective Sign Post Enhancement</b>	Traffic Operations and Management Standing Committee	Develop guidelines for the use of retroreflective sign post enhancement.
<b>Review of Traffic Signal Spacing Requirements</b>	Traffic Operations and Management Standing Committee	Review both the <i>Geometric Design Guide</i> and <i>Manual of Uniform Traffic Control Devices</i> to determine intersection spacing considerations and traffic control signals installation references in both documents.
<b>Road Cuts and Coring Best Practices</b>	Maintenance and Construction Standing Committee	Develop a synthesis of best practices for road cutting and coring.
<b>Safety Audits for Active Transportation (CRaSH)</b>	Road Safety Standing Committee	Prepare a supplement to the <i>Canadian Road Safety Audit Guide</i> to provide additional resources for considering active transportation modes in themed road safety audits. The active transportation modes covered are walking and cycling, giving particular focus on the vulnerable road users. The supplement should increase awareness of the safety and the needs of pedestrians and cyclists, and ensure that they are adequately taken into consideration in the transportation projects and road design.
<b>Signage for Electric Vehicles in Reserved Lanes</b>	Traffic Operations and Management Standing Committee	Revise section A2.9.8 of the MUTCDC to include the electric vehicles (EV) symbol on Reserved Lane signs as an option for permitted use of reserved lanes by EV.
<b>Standardization of Agricultural Vehicle Warning Signs</b>	Traffic Operations and Management Standing Committee	Develop agricultural warning signs for Canada.

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<b>Traffic Signal Modelling Methodology</b>	Traffic Operations and Management Standing Committee	Develop a training program on traffic signal modelling methodology.
<b>Trans-Canada Yellowhead Highway Route Marker</b>	Traffic Operations and Management Standing Committee	Create an image for the highway route, which reflects the Yellowhead route's historical significance and emphasizes its role as a community-connector in central Western Canada.
<b>Transit Priority Signal Sign</b>	Traffic Operations and Management Standing Committee	Consider the need for and design of a sign that would accompany transit priority signals; include design of signs that limit movements allowed under the Transit Signal indications.
<b>Update to 2017 Geometric Design Guide for Canadian Roads- Chapter 4 Cross-Section Elements</b>	Geometric Design Standing Committee	Update contents to address lane widths, sidewalks, boulevards and border areas cycle tracks in boulevards, curbs and gutters.
<b>Update to 2017 Geometric Design Guide for Canadian Roads- Chapter 10 Interchanges</b>	Geometric Design Standing Committee	Update contents to address interchange types and evaluation, low cost access management, urban interchanges, ramp terminals and active modes.
<b>Update to TAC Guide for the Design of Roadway Lighting</b>	Traffic Operations and Management Standing Committee	Review the <i>Guide for the Design of Roadway Lighting</i> in relation to the current research and IESNA documents and identify areas where updates to reflect new technology and processes are required.
<b>Use of Warm Mix Asphalt in Canada</b>	Soils and Materials Standing Committee	Prepare a discussion paper on current practices for use of warm mix asphalt in Canada.
<b>Utility Agreements</b>	Maintenance and Construction Standing Committee	Develop a repository of sample utility agreements used in Canada.
<b>Utility Coordination Guide for P3 Project</b>	Maintenance and Construction Standing Committee	Based on the <a href="#">TAC Guidelines for the Coordination of Utility Relocations</a> (2016), develop a Guide for P3 delivery model projects.
<b>U-Turn Signal Indication</b>	Traffic Operations and Management Standing Committee	Develop a protected U-Turn signal indication.
<b>Warrants for Traffic Signals in Proximity to Railway Grade Crossing</b>	Traffic Operations and Management Standing Committee	Develop a warrant for traffic signals at intersections in close proximity to railway grade crossings.