



Malcolm Catto, P. Eng.
Principal
SCS Consulting Group

Introduction

Malcolm has been responsible for management and detailed design of engineering projects from the planning stages through to construction. His strong background in municipal design and project management allows for a smooth progression of his projects from start of design to municipal assumption. He has managed design teams responsible for municipal design of many large residential subdivisions throughout the GTA, as well as providing engineering services (such as cost sharing and group engineering) to several large development groups. Malcolm is also in charge of the design and CAD team at SCS Consulting Group.

Malcolm brings a very detailed approach to all of his projects, which results in a comprehensive, cost effective and easily implementable design and construction program.

Education

University of Waterloo, Waterloo, B.A.Sc., Civil Engineering, 1994

Professional Affiliations

Professional Engineer, Association of Professional Engineers of Ontario 1996

Professional Engineer, Association of Professional Engineers and Geoscientists of the Province of British Columbia

Professional Engineer, Association of Professional Engineers, Geologists and Geophysicists of Alberta

Professional Engineer, Association of Professional Engineers and Geoscientists of the Province of Manitoba

Professional Engineer, Association of Professional Engineers and Geoscientists of Saskatchewan

Member, Greater Toronto Sewer and Watermain Construction Association (GTSWCA)

Member, Building Industry and Land Development Association (BILD)

Member, Whitchurch-Stouffville Chamber of Commerce

Member, Markham Board of Trade

Member, Ontario Public Works Association (OPWA)

Member, North American Society for Trenchless Technology (NASTT)

Past Project Experience

Box Grove Community – Group Engineer and Detailed Design, City of Markham

- Acting as the project manager of a large detailed design team preparing detailed designs of this large community. Challenges include the design/construction of several Regional By-Pass roads through the community, construction of works through a Hydro corridor, design/construction of several large culvert creek crossings and creek enhancements, construction of an at-grade road crossing of CPR tracks, construction of a sewer outfall through a golf course, and direct connection of a sanitary sewer to the YDSS.

Greensborough Community – Group Engineer and Detailed Design, City of Markham

- Acted as the project manager with respect to the community Core Servicing Design. This project required a close working relationship with the various developers and approval agencies to deliver a comprehensive Core Servicing program that allowed for the simultaneous development of several properties. Challenges included the design of a temporary sanitary attenuation facility to allow the community to advance ahead of the York Durham Sewer System (YDSS), extensive design and cost sharing coordination with proposed Donald Cousens Parkway, and the design of an at-grade level road crossing at a point where an existing creek meets a set of train tracks with a proposed GO station.
- Malcolm was also simultaneously responsible for the detailed design of several subdivisions within Greensborough. The design team he manages is still actively designing further subsequent subdivision phases and another at-grade level road crossing.

Berczy Village Community – Larkin-Monarch, McGregor, Baystore, Everyvale Holdings and Markham Trails Subdivisions, Detailed Design, City of Markham

- Simultaneously designed, as a member of a team, the successful completion of detailed engineering design drawings for three adjacent plans of subdivision. A close working relationship with the individual developers and the approval agencies allowed us to deliver the design approvals and ultimate building permits on schedule and on budget.
- Malcolm went on to successfully manage the designs of several other large multi-phased subdivisions within the community. All of these subdivisions are collectively in excess of 2000 lots.

Preserve Residential Subdivision – Detailed Design, 2B Community, Town of Aurora

- Acting as Project Manager for this 600 lot subdivision with a design team. Project includes design coordination with a Regional trunk sanitary sewer through the site, proposed Business Park blocks and extensive coordination with Regional boundary roads.

Minto Markham (Legacy) Subdivision – Detailed Design, City of Markham

- Executed the subdivision design for this 850 lot subdivision as a member of a team for this multiple phased community adjacent to the Rouge Valley. The design included two stormwater ponds created within former golf course ponds, lotting against the Hamlet of Box Grove and future Highway 407, as well as lotting and roads above the York Durham trunk sanitary sewer.

South Unionville Community – Group Engineer, City of Markham

- Malcolm acted as lead designer providing assistance to the landowners as the group engineer and as administrator for the community cost sharing agreement.

Grand Valley Trails Phases 1 and 2 – Subdivision Detailed Design, City of Brantford

- The detailed design, overall coordination, resident liaison and coordinated with sanitary pumping station design for this project was orchestrated by Malcolm.
- SCS civil works included the review and revisions to the existing detailed design of the phase 1 subdivision relating to site servicing and grading.
- Other subdivision responsibilities included coordination of sub-consultants and liaison with approval agencies to attain an aggressive completion schedule. Malcolm was also involved in the detailed design of the reconstruction works of existing/adjacent Johnson Road and Garden Avenue, where extensive site walks were required to aid in the comprehension of the existing drainage and grading constraints, and the minimization of its disturbance on the existing residents.
- Strategic sewer placement was required on Johnson Road and Garden Avenue due to the existing infrastructure (utilities and watermain) within the roadway and sewer placement under a set of CNR tracks on Johnson Road.

Heritage Hillsdale Subdivision Phase 1 – Subdivision Detailed Design, Township of Springwater

- The detailed design and the Project Management is being supervised by Malcolm.
- The subdivision includes many earthworks complications such as elevated water table and poor structural soils that require a dewatering program and a settlement pre-loading program.
- Malcolm is providing overall project coordination. Other aspects of the project being coordinated, include an external WTP, water tower and 4km of external trunk watermain, and an on-site WWTP and communal sewage disposal system.
- Multiple external road improvements/connections and an MTO intersection.
- A large SWM pond that includes a liner and sub-drainage system.

Municipality Assistance

- Malcolm has provided assistance to the City of Markham for the updates to the Design Criteria and Standard Drawings.
- Malcolm also has provided Peer Review services of engineering drawings for the City of Markham.
- Malcolm provided Erosion Sediment Control assistance services to the Town of Whitchurch Stouffville.
- Malcolm has also conducted Hamlet Servicing Investigations for the City of Markham for Box Grove and Victoria Square.

Planning Assistance provided for the following major projects

- Bond Head Secondary Plan, 900 lot Subdivision, Bradford.
- 400/88 Secondary plan area, Employment Lands, Bradford.
- North Greensborough area, 600 lot Subdivision, City of Markham.
- Lasseter Phase 2 Subdivision, 270 lot Subdivision, City of Markham.
- Molise Kleinburg Subdivision, 400 lot Subdivision , City of Vaughan.
- Area 2C West Secondary Plan area, large residential area, Town of Aurora.
- Maplequest Subdivision, 300 lot high density Subdivision, Block 40, City of Vaughan.

Detailed Design / Project Management Services provided for the following major projects

- Masters Creek Subdivision, 70 estate lot Subdivision, Town of Mono.
- Edenfield Subdivision, 160 lot Subdivision, City of Brampton.
- Digram North and South Subdivisions, 600 lot Subdivision, City of Markham.
- The Village Subdivision, 300 lot New-Urbanism Subdivision, Niagara on the Lake.
- Molise Kleinburg Phase 1 Subdivision – 70 estate lot Subdivision, City of Vaughan.
- Havelock Corners Subdivision, 400 lot Subdivision, City of Woodstock.

