



in this issue :

A 3D Digital Walk-Through

Our firm visits the Reality Cave in Waterloo to walk-through a building for Bruce Power before construction begins.

See page 2

Looking Back at Stratford Place

We remember one of our firm's first big projects in Stratford.

See page 3

We are on Social Media!



To become our friend on facebook:
[CLICK HERE](#)



To follow us on Twitter:
[CLICK HERE](#)

We ask you to consider the environment before printing this document.

NA Engineering Associates Inc. Celebrates 20th Year

In this issue, our firm looks back on some of our most recognizable projects from the past two decades.

This year marks the 19th Anniversary of the founding of NA Engineering Associates Inc. We have grown a great deal over the past nineteen years, building a company and a team that values hard work, quality and dedication. Since the firm was founded, it has further established itself as a comprehensive and multidisciplinary team, working on a diverse range of projects all across Ontario.

To celebrate our 20th year, we have dedicated articles in this newsletter to some of our firm's most recognizable work. These projects include everything from major renovations to a landmark theatre in Stratford, to a brand new fire training facility for Bruce Power.

Our firm works in a number of engineering disciplines (structural, mechanical, electrical, civil, nuclear, environmental, and building science). As such, our projects are greatly varied, and have involved many different challenges, opportunities, and successes.

We are lucky here at NA Engineering Associates Inc. to have an amazing multidisciplinary team of professionals, and we take pride in our consistent delivery of successful projects. Our firm's personal attention to our work -- combined with our use of state-of-the-art technology -- assures our clients that projects are handled effectively from conception to completion.

On behalf of NA Engineering Associates Inc's partners, (Nick, Jim, John and Larry) we would like to thank both our clients and our team in Stratford, London, and Kincardine for making it all possible.



Viewing Designs In The Third Dimension

As part of our firm's work on the exciting new Fire Training Facility at the Bruce Power Nuclear site, staff members from Bruce Power and NA Engineering Associates Inc. attended the Reality Cave in Waterloo -- to see the new facility as part of a 3D virtual tour.

The tour was an effective tool for everybody involved to more-thoroughly understand the building, and allowed attendees to take a virtual "walk-through" before anything was built.

The Fire Training Facility is one of our firm's most interesting projects. The building has been designed to address the unique demands of an indoor fire training facility, able to effectively withstand and remove the heat, flame, smoke and fire fighting water from repeated training sessions.

The Avon Theatre Renovations

Our firm looks back on one of our most recognizable projects in Stratford.

The Avon Theatre began life in 1901 as a vaudeville house called Theatre Albert. By the 1950s, it was being used almost exclusively as a movie theatre. The Stratford Festival bought the premises in 1963 after renting it for several seasons as a venue for its music and film festivals. Currently, the Avon Theatre is one of four world-class theatrical facilities located in the City of Stratford. During its history a number of major renovations took place, culminating in the massive renewal project that was completed in 2002. The Board of Directors had decided in 1999 that the time had come to do a major renovation to the "Avon".

NA Engineering Associates Inc. was the structural consultant for the proposed renovations. A comprehensive structural assessment of the existing building was completed prior to undertaking this extensive project. The scope of work was of such a size that it was necessary to span two seasons. Since "the show must go on", the work was divided to be completed within the off-season, when plays were not being performed.

Working within the existing framework of a building that had seen many renovations over its 100 year history that used many different construction methods, proved to be challenging. NA Engineering Associates Inc. met the challenge and was able to provide the appropriate solution in all areas of work.



Looking back at Stratford Place

We remember one of our firm's earliest projects.

One of our firm's earliest projects (and by far the most notable at the time) was Stratford Place, the design of which commenced in 1996. This project advanced our growing firm's portfolio because of its size, degree of detail, and it's inherent charm.

A great example of small town urbanism, Stratford Place was squeezed into the downtown and has become an anchor in the heart of the city. NA Engineering Associates Inc. provided structural, environmental, and civil engineering services as well as project management for this project.

The building consists of 5 storeys above grade and two levels of underground parking. The lower parking levels are accessed via ramps from the rear of the building. Two levels of terraces at the rear of the building provide views of the Avon River.

The preservation of Stratford's vibrant downtown has always been of the utmost concern to the city's residents, and the development of this project was followed closely by residents and visitors alike. To this day, this building is one that we continue to cherish.



Remembering Our Work On UWO's North Campus Building

NA Engineering Associates Inc. completed structural and municipal design for the University of Western Ontario's North Campus Building, as well as a portion of the construction administration for the project.

The building is four storeys in height with a partial basement and is largely steel-framed. There are a number of cantilevered elements in the building, constructed of both structural steel and cast-in-place concrete. These were exciting and challenging structural elements to design.

Other notable features of the North Campus Building include three interior bridges that cross a dramatic atrium-like common area and a series of 80-foot trusses over the main lecture theatre.

The North Campus Building is an excellent example of new construction designed to blend seamlessly into the ivy-covered walls of the University's large number of historic buildings.

Our Renovated Stratford Home

We remember a highly personal project of our firm's -- the renovation a former Stratford dance bar to use as one of our firm's three offices.

NA moved into its current location in Stratford several years ago, converting the original space at 107 Erie Street from "Eddie's" -- a pre existing dance bar that had been closed down.

The firm got rid of the DJ equipment, turned the dance floor into a meeting room, and renovated the space into a state-of-the-art engineering office. The building provided ample storage space, natural light, and space to hang some of the firm's favorite sport's memorabilia. The design of the office's interior also showcased some of the building's steel structural details.

The office has since become a perfect home-base for servicing projects all over Ontario -- as well as a personal point of pride for the firm.

The NA Engineering Associates Inc. office in Stratford is pictured (top image). The image below was taken outside of our original Ontario Street office.



Looking Back on a Project with Ontario Power Generation

In early 2007, NA Engineering Associates Inc. was given the tasks of Structural, Mechanical, Electrical, and Civil Engineering for two new storage buildings on the nuclear site of Ontario Power Generation in Pickering Ontario from Alberici Constructors.

A detailed design process was undertaken for all disciplines that challenged the design team in all aspects from strict regulations for 'ponding' on site water, electrical interfaces and tie-ins with existing site conditions, structural design to accommodate extreme heavy loads and a mechanical passive ventilation system.

Preparation of the required documentation was the key aspect to ensure all Design Change Notice packages met the intent of the project requirements.

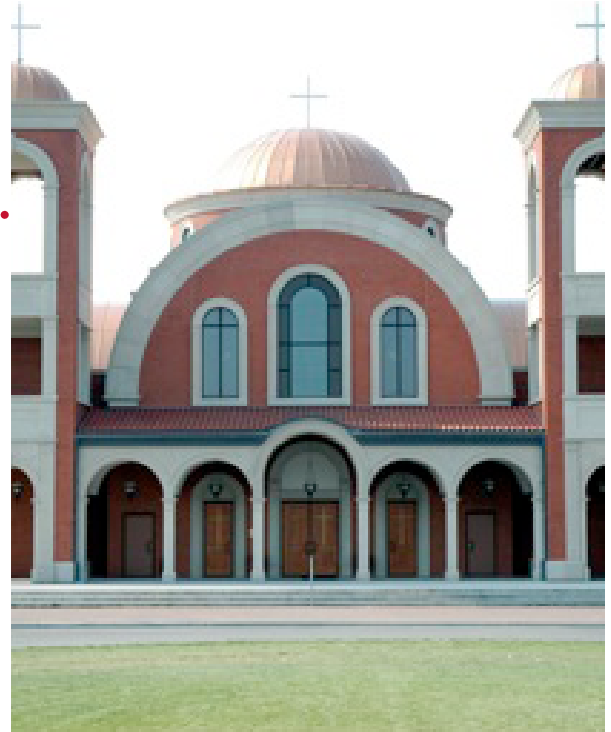
While completing the first phase, careful planning for the future storage building had to occur in order to ensure a seamless expansion in the following phase.

The Holy Greek Orthodox Church

We look back on our provision of structural and municipal designs for a London church with distinct Byzantine style.

In 2002, NA Engineering Associates Inc. provided structural and municipal designs for this new, Byzantine Style church. The building's unique style (with domes and a barrel-vault roof) made the design an exciting challenge for our firm. We happily applied sound engineering principles and overcame the technical difficulties with constructing unusual building shapes.

The building utilizes a steel frame, hollow core floor slabs, and masonry walls. The structural frame for the barrel vaults & domes was designed as a space frame. The space frame offered cost savings without sacrificing any of the design features that were so important to this style of building. Original building renderings for the Church were completed by the NA Engineering Associates design staff.



Golf Tournament & Denim Day

NA Engineering Associates Inc. recently held its annual Golf Tournament in Stratford on June 7th, 2013. The event was a complete success, raising more than \$20,000 dollars to benefit The Stratford General Hospital Foundation, a non-profit organization dedicated to raising funds to purchase equipment, upgrade facilities and support special projects.

Since its inception, the tournament has raised more than \$350,000 for various charities; a figure made possible with the ongoing support of our clients, contractors, colleagues, and friends. Thank you to all of the participants, volunteers, and all who generously donated prizes to the event.

In other recent fund-raising news, the staff at NA Engineering Associates Inc. participated in the firm's 3rd annual celebration of National Denim Day. Staff donated five dollars to the Cure Foundation, and sported their finest denim -- along with a pink ribbon to show their support.

Check Out Our Website!

NA Engineering Associates Inc. has recently re-engineered their corporate website. [CLICK HERE](#) to visit our new site.