

INVESTING IN
**SUSTAINABILITY
AT MACKENZIE
HEALTH**



Mackenzie
Health
Foundation

THE ULTIMATE SUITS YOU





WE'RE CREATING THE ULTIMATE

Taking care of people is at the heart of everything we do at Mackenzie Health.

We know that the health of people and the health of our community are inextricably linked to the environment; reducing waste, preserving green spaces, and protecting our air and water are key to our personal health and survival. What's more, the physical spaces we design have been shown to impact mental and physical well-being and contribute to the growth and sustainability of our communities. When we build a hospital with sustainability in mind, it can provide a foundation, a sense of place and belonging that impacts the quality of life for years to come.

This is our vision for Cortellucci Vaughan Hospital.

THE NEW CORTELLUCCI VAUGHAN HOSPITAL WAS BUILT WITH OUR PATIENTS, OUR COMMUNITY AND OUR ENVIRONMENT IN MIND



BETTER FOR OUR PATIENTS

As early as the mid-1980s, research has shown that green design can help support a patient's recovery process. With three public outdoor courtyards, terraced gardens, green or living roofs that are covered with vegetation and access to walking and biking trails, Cortellucci Vaughan Hospital offers patients and their families multiple opportunities to connect with the healing qualities of nature. Better treatment outcomes and faster recovery, supported by green, patient-centred design, benefit our entire community.



BETTER FOR OUR COMMUNITY

Cortellucci Vaughan Hospital is our community's response to the fastest growing region in the country. In addition to being a place where people come to prevent and treat illness, our hospital serves as a place for people to gather, learn, connect and plan for a shared, healthy future. Cortellucci Vaughan Hospital and its iconic Giovanni and Anna De Gasperis • Eugene and Eva Kohn Learning Centre, cafeteria, courtyards and gardens are the foundation and a catalyst for our growing, sustainable community.



BETTER FOR OUR ENVIRONMENT

Designed to achieve a Leadership in Energy and Environmental Design (LEED) Silver designation — which recognizes buildings that reduce environmental impact through design, construction and operation — Cortellucci Vaughan Hospital demonstrates our commitment to environmental leadership by using recycled materials, saving water and energy, reducing waste, creating more green spaces and promoting environmentally-friendly forms of transportation.

“We’re not simply adding a new hospital to our community. We’re ensuring everyone in Vaughan, Richmond Hill, King and surrounding communities have access to high-quality care close to home and creating a healthier future for them.”

— ALTAF STATIONWALA, PRESIDENT & CEO, MACKENZIE HEALTH



The main courtyard with cascading gardens, adjacent to the atrium, was designed with lush greenery and open spaces to create calming and restful areas for patients and families who are undergoing care and treatment, or who need relief during stressful times.

THE HEALING POWER OF ENVIRONMENT

We have long understood that fresh air, sunlight and gardens can be good for what ails us. But it wasn't until 1984 that scientists proved it. In a study published in the top-ranked journal *Science*, environmental psychologist Roger Ulrich showed that patients recovering from surgery in rooms with natural scenic views returned home faster, experienced less pain and had fewer complications than those exposed to a view of a brick wall.

Since then, countless researchers have shown the positive link between healing environments and patient outcomes, and hospital architects have committed to incorporating elements such as natural light and views, outdoor destinations and communal spaces into their designs. In addition to improving treatment outcomes, evidence-based design can lead to shorter hospital stays, and in turn reduced wait times and overall cost savings. It can also positively impact staff morale and productivity.

BEHIND THE DESIGN

Stantec Architecture Ltd., the international award-winning architectural firm behind Cortellucci Vaughan Hospital's design, has incorporated views of the outdoors and natural environments to enhance the patient experience and connection to community.



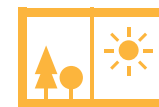
NATURAL ENVIRONMENT

The calming and restorative effects of the natural environment are further enhanced with terraced gardens, green roofs, outdoor walkways and the unique integration of interior and exterior spaces. The lower-level cafeteria, for example, is carved into the surrounding landscape to allow for ample daylight and access to an outdoor courtyard.



OUTDOOR COURTYARDS

Each of the mental health and critical care programs includes access to outdoor courtyards where patients and their loved ones can heal, reflect and visit.



OUTDOOR VIEWS

Large windows and warm, natural-looking materials are featured on all levels of the hospital, providing patients and their families with comforting outdoor views.



INTERCONNECTED SPACES

Visitors have orienting views to the outdoors at each public elevator lobby, and expansive gathering spaces interconnect public spaces of the hospital.



SPOTLIGHT ON

LEED SILVER DESIGNATION

Better treatment outcomes and faster recovery, supported by green, patient-centred design, benefit our entire community.

The design of Cortellucci Vaughan Hospital earned Mackenzie Health a Leadership in Energy and Environmental Design (LEED) Silver designation which recognizes buildings that reduce environmental impact through design, construction and operation. Cortellucci Vaughan Hospital demonstrates our commitment to environmental leadership by using recycled materials, saving water and energy, reducing waste, creating more green spaces and promoting environmentally-friendly forms of transportation.

“As the first new hospital to be built in York Region in decades, this is a major step forward in Vaughan’s evolution. It’s about investing in the health and well-being of our citizens and ensuring we all have access to the very best services available.”

— MAURIZIO BEVILACQUA, MAYOR, CITY OF VAUGHAN, AND CHAIR, ULTIMATE CAMPAIGN FOR MACKENZIE HEALTH

AN ANCHOR IN OUR COMMUNITY

With a population of more than 320,000, Vaughan has grown into a thriving city. Government, business and community leaders are joining together to give back to their great community and establish the infrastructure, resources and services befitting a city of this size — one of the fastest growing regions in the country. The new Cortellucci Vaughan Hospital is one of our community’s top priorities. Cortellucci Vaughan Hospital and the existing Mackenzie Richmond Hill Hospital serve as anchors within our community, catalysts for continued development and symbols of the healthy, sustainable future we are building together for our families.



TECHNOLOGICALLY ADVANCED EDUCATION FACILITY

Cortellucci Vaughan Hospital’s Giovanni and Anna De Gasperis • Eugene and Eva Kohn Learning Centre is the most technologically advanced education facility within a Canadian community hospital. The Centre’s clinical teaching and simulation labs, conference and learning spaces, and auditorium allow health care providers and staff from across the hospital, region and province to stay up-to-date on the latest information and practice new skills and best clinical practices, leading to improved patient care and outcomes in our community and beyond.

\$3.2M

a year in anticipated energy cost savings

40%

less energy and indoor water use

Energy savings equivalent of taking approximately

5,000

homes off the energy grid every year



WELLNESS OVER ILLNESS

Cortellucci Vaughan Hospital focuses on wellness over illness. Our cafeteria, courtyards, gardens, walkways and bike paths draw community members together and provide them with the healthy, natural environments they need to heal, reflect, connect and plan for the future.



CIVIC RESOURCE

Built on what was a large, paved parking lot for a nearby amusement park, Cortellucci Vaughan Hospital transforms the space into an important civic resource — a publicly-accessible community building with learning and meeting spaces, a cafeteria, courtyards and gardens for all to enjoy. Together with our community’s other landmark public institutions, from city hall to police headquarters and libraries to community parks, our new hospital forms a cornerstone of Vaughan’s growing civic centre.

COMMITTED TO ENVIRONMENTAL LEADERSHIP

Cortellucci Vaughan Hospital has a unique opportunity to embrace green technologies and efficiencies. The bottom line savings resulting from reduced waste, energy and water is expected to approach \$3.2 million a year. Our green building approaches also reduce harmful impacts on the environment by generating less greenhouse gases and other pollutants:



REDUCING ENERGY COSTS

Green roofs, high performance windows, low-power LED lighting, and high-efficiency heating, ventilation and cooling systems enable us to reduce the hospital’s energy costs by 40 per cent relative to the national benchmark.



EASY ACCESS

The hospital features walking trails, bike paths and easy access to the future York Region Transit Terminal. Priority parking is also available for carpooling staff and hybrid vehicles (with charging stations), and more than 100 bike racks in the parking structure and near the building entrances. Staff also have access to change rooms and showers.



WATER-EFFICIENT FIXTURES

Water-efficient fixtures reduce the hospital’s indoor water consumption by more than 40 per cent compared to conventional systems. Outdoor water consumption could drop 50 per cent through the use of high-efficiency irrigation systems and native drought-tolerant plants. The hospital’s green roofs help divert rainwater from the municipal sewage system.



ENVIRONMENTALLY RESPONSIBLE

Located at the northwest corner of Jane Street and Major Mackenzie Drive, Cortellucci Vaughan Hospital occupies a developed but unused site. The hospital’s ample cascading gardens and courtyards complement the surrounding natural environment and habitats. Thirty per cent of the hospital’s building materials and products will be extracted, harvested, recovered and processed locally and a minimum of 75 per cent of construction waste will be diverted from landfill.

CENTRAL UTILITY PLANT (CUP)

The Central Utility Plant (CUP) is an essential service building that contains most of Cortellucci Vaughan Hospital’s mechanical and electrical equipment, including chillers, cooling towers, boilers and transformers. Power, cooling, heating and steam are transported to the hospital through underground tunnels. Since this equipment is housed in a separate building, the service and maintenance of these units are not disruptive to patients, visitors and staff. The CUP also features a green roof that will be landscaped with an eclectic mix of locally sourced shrubs, perennials and ornamental grasses to provide an aesthetically pleasing backdrop and screening.

NOTE All of Mackenzie Health’s proposed energy cost savings are relative to the industry benchmark, the Model National Energy Code for Buildings (1997).

HELP US CREATE THE ULTIMATE

Mackenzie Health Foundation is spearheading the \$250-million Ultimate campaign — the largest fundraising drive led by a community hospital in Canada — to help purchase equipment for Cortellucci Vaughan Hospital and enhance care at Mackenzie Richmond Hill Hospital. Our goal is now within reach. Help us cross the finish line. Your leadership investment will help create a healthy healing environment, contribute to the growth of our sustainable community and reduce harmful impacts on our planet.

If you have any questions about Mackenzie Health's vision for sustainability, the Ultimate campaign or to discuss this opportunity in more detail, please contact:

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