



# THE ULTIMATE

aking care of people is at the heart of everything we do at

community is inextricably linked to a healthy environment; reducing waste, protecting our air and water are key to our well-being. What's more, our built environment can impact mental and physical well-being and create more sustainable communities. When we build a health care network with sustainability in mind, it can provide a foundation, a sense of place and belonging that impacts the quality

now and in the future means continuously looking for ways to lighten our global footprint. With your support today, we will always be on the leading edge of green

## SUSTAINABILITY IS GOOD HEALTH CARE FOR OUR SHARED ENVIRONMENT



## BETTER FOR OUR PATIENTS

As early as the mid-1980s, research has shown 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 and connect 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 and sustainability.



## 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.

Did you know provincial funding only covers our capital and operating costs? That means all the leading-edge medical tools we need to serve and support our community are purchased through donations from people like you. Help us stay ahead of the smart-tech curve by making an investment in the ultimate in care — for today and tomorrow.



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

e 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. 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 while reducing wait times and overall cost savings. It can also positively impact staff morale and productivity.

## BEHIND THE DESIGN

Cortellucci Vaughan Hospital boasts 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.



## 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.

# 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 have joined 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. Cortellucci Vaughan Hospital and 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.

\$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



## 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.



## WELLNESS OVER ILLNESS

Cortellucci Vaughan Hospital's 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 is 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 Mackenzie Richmond Hill Hospital and Vaughan City Hall, to our libraries and community parks, Cortellucci Vaughan Hospital forms a cornerstone of the city's growing civic centre.

## COMMITTED TO ENVIRONMENTAL LEADERSHIP

Through Cortellucci Vaughan Hospital, Mackenzie Health has embraced 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 have also reduced 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.



## 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.



### **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 are available in the parking structure and near the building entrances. Staff also have access to change rooms and showers.



## ENVIRONMENTALLY RESPONSIBLE

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 were extracted, harvested, recovered and processed locally and a minimum of 75 per cent of construction waste was 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 landscaped with an eclectic mix of locally sourced shrubs, perennials and ornamental grasses to provide an aesthetically pleasing backdrop and screening.

<u>NOTE</u> 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 STAY ON THE LEADING EDGE

Mackenzie Health has ushered in a new era of leading-edge health care for western York Region, driven by the power of smart technology and the promise of better patient outcomes.

Join us as we work to ensure our powerful new two-hospital health care network — and the growing number of medical experts who call it home — have the advanced technology they need to save lives, now and in the future.



If you would like to learn more about how you can help bring Mackenzie Health's vision for a more sustainable health care system to life, please contact:

Mackenzie Health Foundation
303-955 Major Mackenzie Dr. W. Vaughan, ON, L6A 4P9 **T** 905-883-2032 **E** foundation@mackenziehealth.ca

MackenzieHealthFoundation.ca

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