



## **Technology & Environmental Features in new Wing**

1. RLTS – Real Time Tracking & Locating System
  - Enables us to track hospital equipment
  - Allows CMH to monitor patients, ensures wanderers do not leave depts.
  - Increases staff safety, shows who is where in the building and aids in code events (Blue, White, Silver)
  - Hugs Infant Protection System – infant abduction prevention system
  
2. Pneumatic Tube System (part of Phase 3 when Lab reno is completed)
  - Enables fast and secure delivery of specimens to the lab increasing efficiency and reducing turnaround times travel distances for patients through hospital
  - Enables delivery of special medications that are not kept in the units
  
3. Nurse Call System
  - Allows two-way conversations between patients and nurses station
  - Can use to call for staff assistance when with a patient
  - Can use to call codes (eg. Cardiac Arrest, Violent Situation and others)
  - Acts as a system to call porters/housekeeping/notify emergency department and central registration that rooms are vacant and have been cleaned
  - Interfaces with other systems in hospital eg. Reminders can be sent to PSW's to check on certain things with patient
  
4. Operating Room/Surgery – integrated system
  - All equipment/ gasses on booms from the ceiling, off the floor
  - Sophisticated air ventilation system creates an air pocket around patient
  - Advanced lighting system that can be zoomed as needed and has special sensors to reduce shadows and auto focuses
  - Lighting system also has handles that accommodate auxiliary cameras for photos or videos to be taken during surgery
  - Monitors available that can show videos/photos of previous procedures to see changes and display vital signs and feeds from scope equipment

## 5. Lighting

- 100% of lighting is LED, many areas with automatic sensors to turn off when space not in use as well as digital lighting controls and timing

## 6. Other:

- Partially designed to LEED silver standards, associated costs too high so did not get certified
- White noise speakers to reduce mechanical sounds during night when building is quieter and patients are trying to sleep
- Mechanical/electronic systems can be accessed digitally from anywhere by maintenance managers
- Design/finishes to reflect local community - etched glass with native plants, stone is Owen Sound Ledgerock from Algonquin Quarry to represent limestone buildings in Galt and other parts of Cambridge
- Donor wall features photos from different areas of Cambridge

## 7. Architectural Features

- Modular walls and casework in all nurse stations and communications areas allows for adaptive reconstruction and flexibility of areas to suit the needs of users and patients
- Sun Shading Measures :
  - Film coating applied to southern facing glass walls to limit solar heat gain and main lower cooling loads
  - Blackout and gradient blinds enables staff and patient to control solar penetrations into room and help limit heat gain during cooling months
  - Sun shades installed on southern curtain wall near feature staircase
- Acoustical sound proofing in interior walls and floor spaces
- Closed cell spray foam insulation used in renovated areas and uninsulated floor slabs

## 8. Mechanical and Electrical

- Motion sensed water fixtures with adjustable run times
- Adjustable localized thermostats which are also programmable through BAS
- Cooling towers positioned on Western (Windward) side of "A" tower mechanical penthouse level, aiding in cooling of system