



- Legend**
- Public Elevator
 - Patient / Staff Elevator
 - Service Elevator
 - Pneumatic Tube
 - Public Circulation
 - Patient / Staff Circulation
 - Service Circulation
 - ★ Nurse / Communication Care Station
 - ↕ Staff Travel Distance
 - ▭ Bed Zone
 - ▭ 8 Bed Zone
 - ▭ Core Nursing Support
 - ▭ Isolation Zone/ Rooms
 - ▭ Family Area

B+H+STH; A Case Study of Evidence-Based Design Influencing IPU Design Under a Public Private Partnership Process Ontario, Canada

Step 4: Create & Innovate EBD Concepts

Step 6: Collect Baseline Performance Measures

Step 7: Monitor Design & Construction

Goal:

A 960,000-square foot green field site regional hospital is being designed, built, financed and maintained (DBFM) for 30 years in Ontario, Canada under an AFP (Alternative Finance Procurement) process, a form of public private partnership delivery. Our goal was to develop an alternative plan for the typical Inpatient Unit (IPU) reflecting more efficient operational principles while complying with a nearly 10,000-page Project Specific Output Specifications (PSOS) document which included an Illustrative Design (ID) outlining operational and facility requirements while supporting the client vision of patient- and family-centered care.

Solution:

We utilized generally accepted nursing and clinical metrics for a hospital in this Canadian province and compared our design against the ID. This analytical information created our review process to determine how, justified based on agreed outcomes, we would arrive at required changes to the PSOS. Examples of where we provided EBD concepts that changed the ID include: A consolidated footprint using two interlocking triangular floorplates; Logistics support from a singular core providing public services and staff access to both of the two 38-bed units which is our typical layout of 76 beds per floor; 80% of rooms are singles; Additional support spaces recommended and implemented; Decreased travel distances for clinical staff based on nursing ratios; Accessibility features provided beyond statutory requirements to embrace the client's model of care.

A monitoring process has been implemented as prescribed by the provincial government for the AFP public private partnership process to review the quality and conformance of the design to the PSOS.