



# KSYEN REGIONAL HOSPITAL

TERRACE, BC

## QUICK FACTS

- + DBFM / P3 / AFP
- + Healthcare
- + LEED® Gold (Target)
- + 356,500 square feet
- + \$622.6-Million Budget
- + Smith + Andersen  
Mechanical, Electrical,  
Security, Audiovisual,  
and Intelligent Integrated  
Systems

## MAIN ENTRANCE

2800



IMAGE COURTESY OF CHRISTOPHE BENARD PHOTOGRAPHY



# KSYEN REGIONAL HOSPITAL

## ABOUT THIS PROJECT

- + Construction of a new hospital on the existing Mills Memorial site, doubling the size of the current facility with 78 beds and a dedicated neonatal intensive care unit.
- + Scope included the replacement of the existing Seven Sisters building with a new single-storey, wood-frame, 25-bed mental health facility, and the demolition of the existing Sleeping Beauty building.
- + The low-voltage lighting control system led to lighting power density reduction of minimum 20 per cent below ASHRAE 90.1 2016 levels.
- + The ventilation system for the new hospital building comprises six air-handling units that provide 100 per cent outdoor air to the hospital.
- + Each air handling unit has supply and exhaust fans, an enthalpy recovery wheel, heating and cooling coils, a humidification grid, MERV-8 pre-filters, MERV-15 final filters, and a carbon filter rack.
- + Enthalpy recovery wheels are provided for all 100 per cent outdoor air systems in the new hospital building to maximize humidity recovery and minimize steam boiler use.
- + Recovery systems allow heat and moisture to be recovered from waste air streams (such as sanitary and general exhaust), reducing building cooling, heating, and humidification requirements. Two heat recovery chillers supplement the heating system by recovering heat from the constant cooling loads and the excess heat recovered by the air-handling unit enthalpy wheels.
- + Air handling units in the new hospital building are connected to provide 100 per cent redundancy for Type one spaces (operating rooms, PACU, minor surgical procedure rooms, ICU, morgue, etc.) and 50 per cent redundancy for Type two and three spaces in the event of a unit failure (patient rooms, diagnostic imaging, emergency, administration areas, etc.).
- + Maintained utility services for the existing Seven Sisters facility during construction of the new building.

### LOCATION

Terrace, BC

### SMITH + ANDERSEN SERVICES PROVIDED

Mechanical, Electrical, Security,  
Audiovisual, Intelligent Integrated  
Systems

### KEY TEAM MEMBERS

HDR Architecture  
PCL Constructors Westcoast  
Bush, Bohlman & Partners

### SIZE

356,500 sq. ft. (33,120 sq. m.)

### BUDGET

\$622.6 Million

### COMPLETION YEAR

2026

### SUSTAINABILITY

LEED® Gold (Target)

## HOT BUTTONS

DBFM / P3 / AFP

HEALTHCARE

SUSTAINABLE

MECHANICAL

ELECTRICAL

AUDIOVISUAL

INTELLIGENT

LEED