

Introduction

The new Senior School on Mulgrave's campus is informed by 21st Century Learning, principles that reflect the realities of the world today. The goal was to create an environment that feels more like a university than a high school; a space that is stimulating, welcoming, flexible, and supports quality learning.

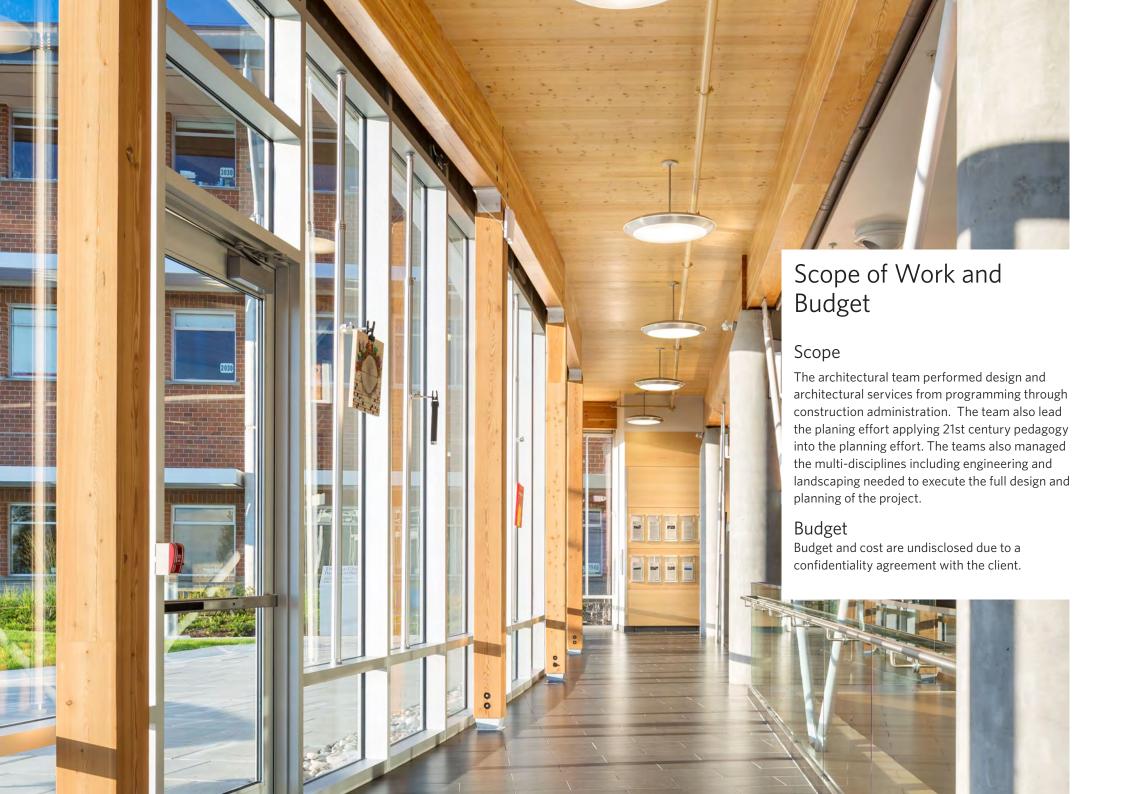
The addition provides a variety of educational space. A meandering east-west artery provides an organic means of circulation with informal gathering places for studying, collaboration, and socialization. The building also hosts community events and activities.

The school responds to a challenging site by nestling into the steep slopes below the existing school. It's situated to be virtually invisible from properties down slope from it, while also resolving previous traffic and parking issues. Its forested context was maintained by planting additional trees, and not interfering with existing ones.

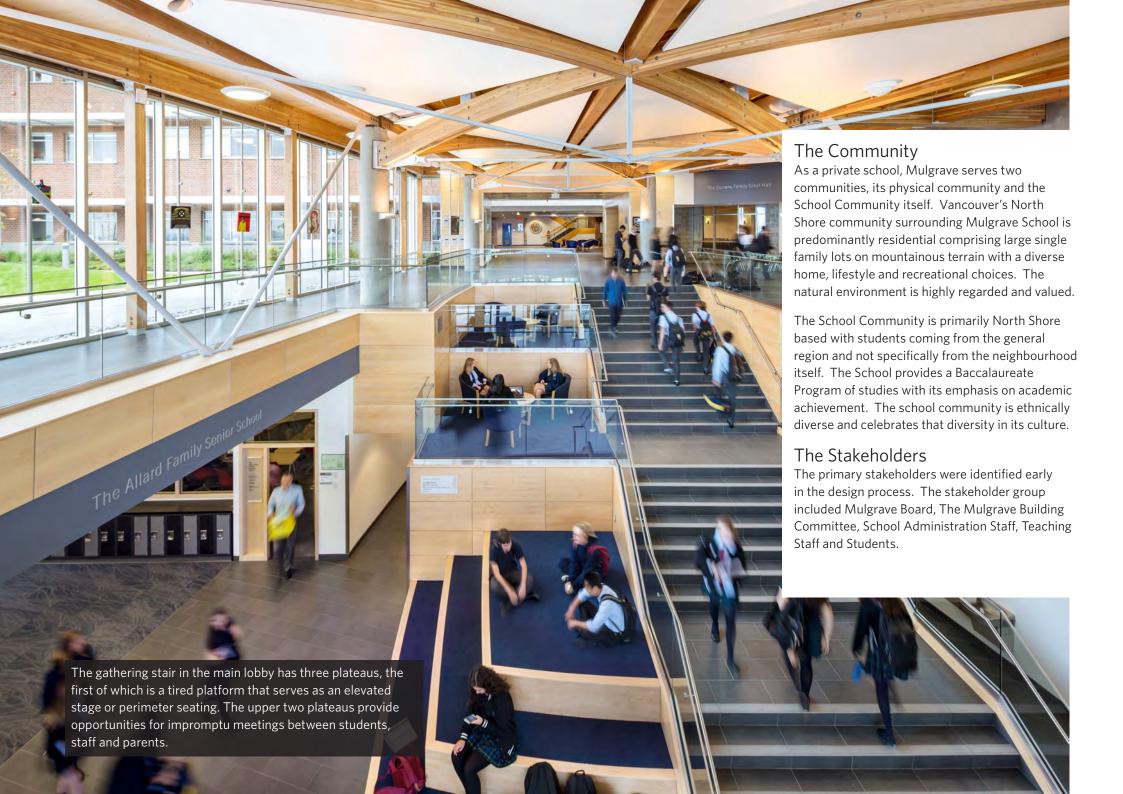
The building incorporates sustainable features. Passive ventilation promotes natural air flow without using mechanical equipment. The design makes the most of natural daylighting, and is equipped with occupancy light sensors. Stormwater is retained and reused for irrigation, and solar thermal panels are used for preheating hot water.

Flexibility to adapt to changing education delivery occurs on three levels:

- Concrete structural system: future reconfiguration of spaces is unrestricted with a context of concrete columns and structural slabs. This will facilitate dismantling and shifting wall locations.
- Movable partitions: Space can be manipulated to suit education delivery demands.
- Varying furniture heights: students have a choice in what is most comfortable for them. All furniture is on wheels for quick and easy rearrangement.











Educational Vision and Goals

The client's goals for the project involved creating a new Senior School that feels more like a university environment and less like a high school; a space that is stimulating, warm, and welcoming, flexible, and above all, that supports quality learning.

The new Senior School is a state-of-the-art 42,000-square-foot facility comprising 10 classrooms, an advanced tech room, administrative space, a new main entrance atrium, art gallery, Great Hall dining room and kitchen, roof garden, outdoor theatre and expanded parking.

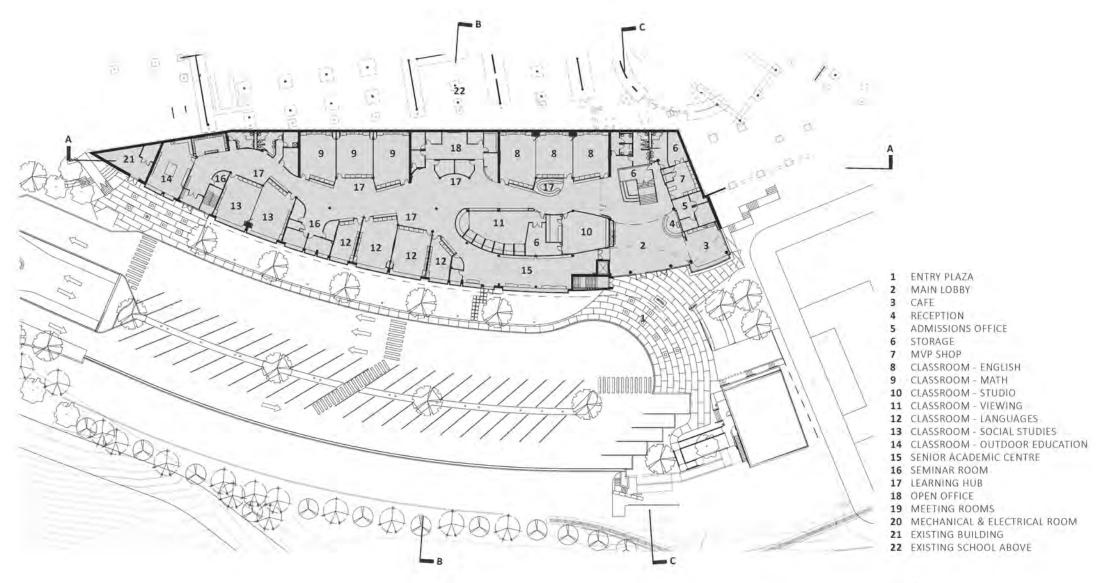


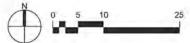
The layout divides spaces into "learning pods," which are groups of rooms, nooks and niches focused on a particular subject area. The English hub entry area is designed as a mini-amphitheatre.



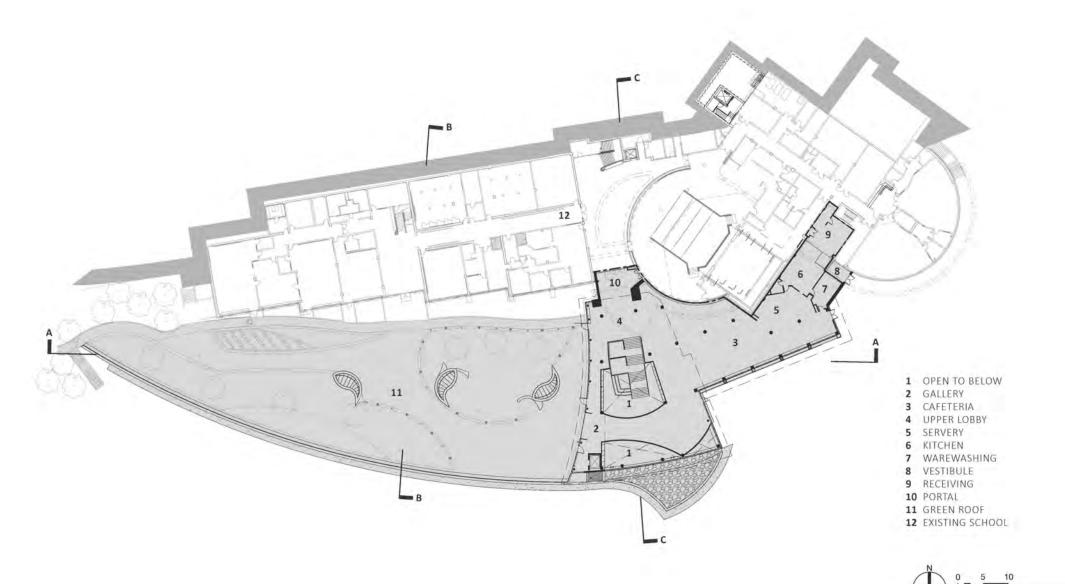


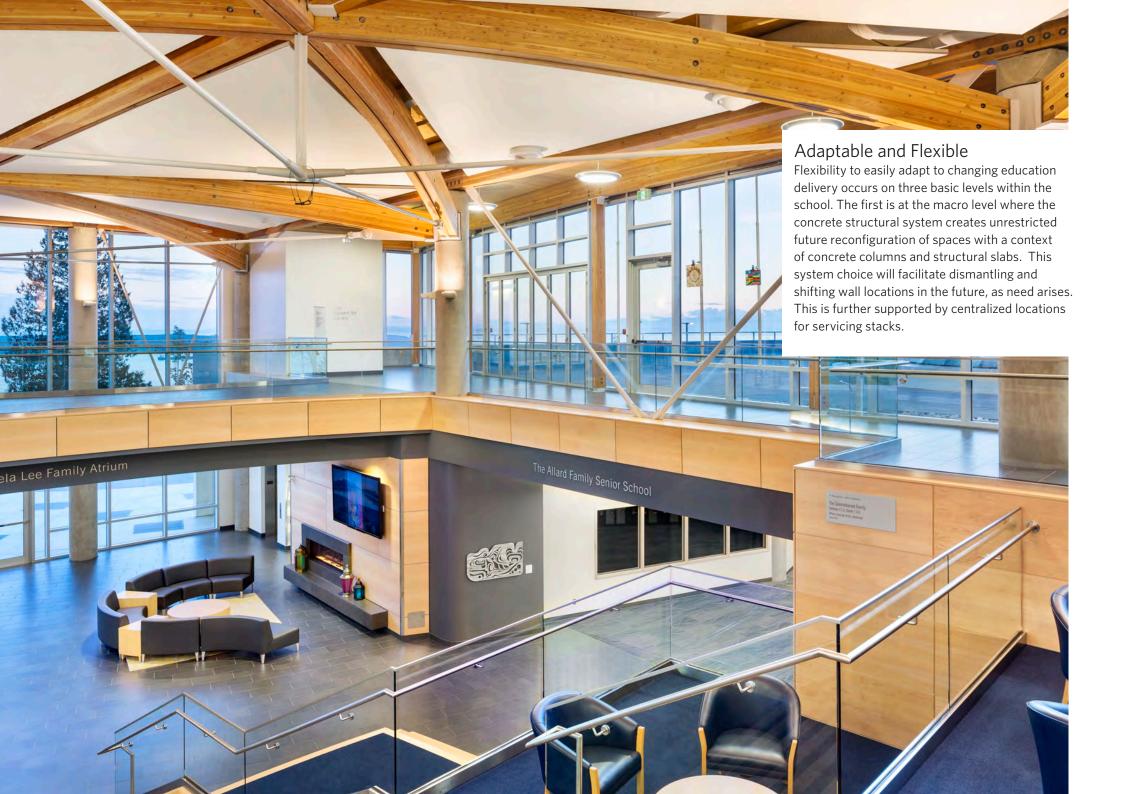
Lower Floor Plan





Upper Floor Plan









Adaptable and Flexible

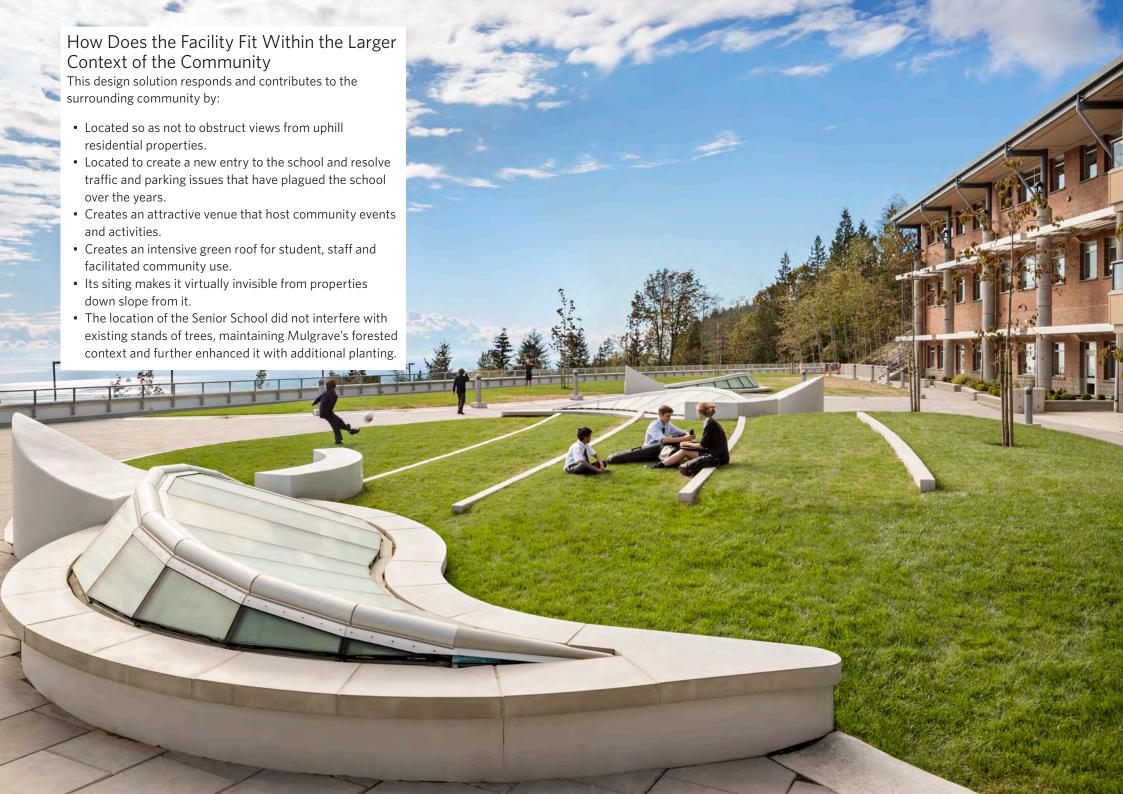
The second level of flexibility is in the numerous movable partitions which allow space to be manipulated to suit education delivery demands. Rooms can be combined or made small as the need arises. This adaptable space approach is further supported by the numerous breakout / study rooms of various sizes, spread out within the Senior School.

The third level of flexibility rests with the furniture selection. Furniture heights vary, giving students a choice in what is most comfortable for them. In addition, all furniture is on wheels, making its rearrangement easy and fast, allowing learning to be dynamic and immediately responsive to the need for individual study, small group study or large group study..

Classrooms and common areas include a range of surfaces and seating to engage students, support their comfort to facilitate stimulation and interest, along with a variety of learner preferences.

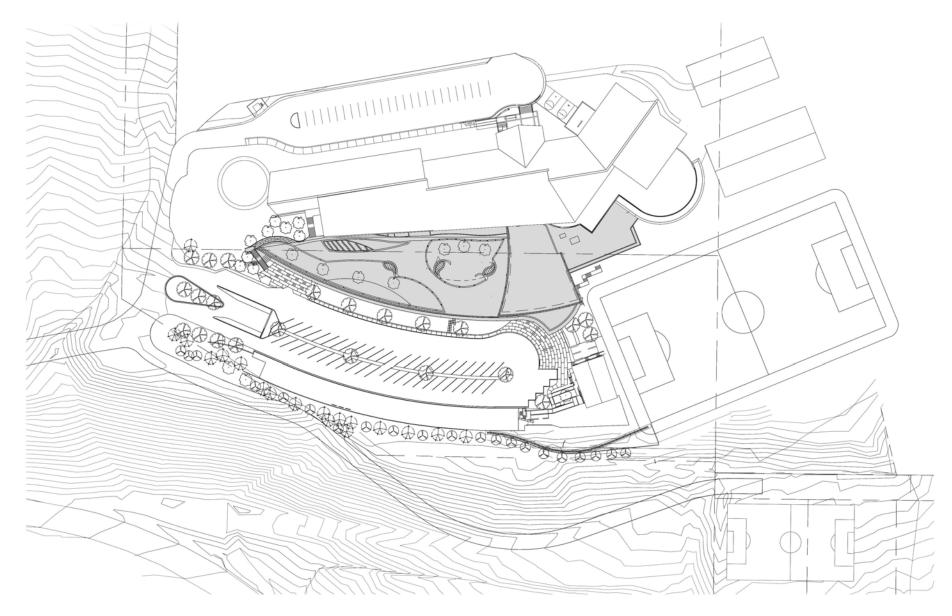


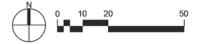




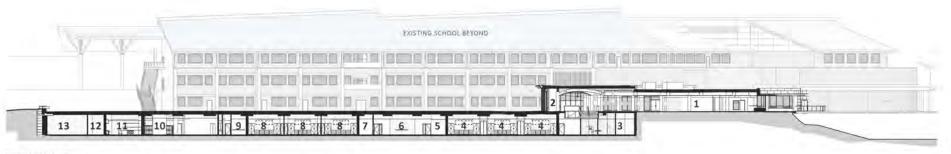
Site Plan 1 UPPER LEVELS HIGHWAY UPPER LEVELS HIGHWAY

Roof Plan



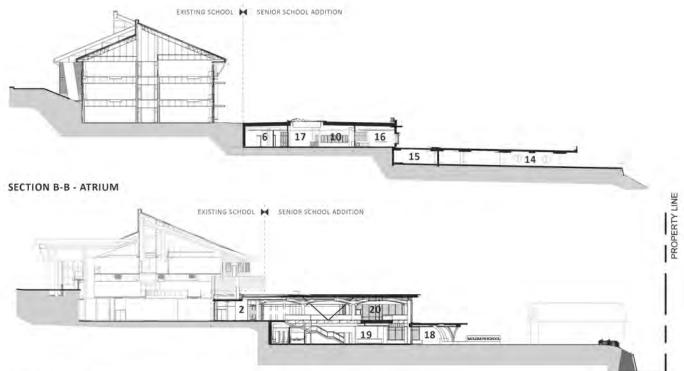


Building Sections



SECTION A-A -

SECTION C-C - ATRIUM



- 1 CAFETERIA
- 2 UPPER LOBBY
- STORAGE
- CLASSROOM ENGLISH
- SENIOR SCHOOL ADMIN
- OFFICE
- HIGHER EDUCATION OFFICE
- 8 CLASSROOM MATH
- 9 SEMINAR ROOM
- 10 ARTERY
- 11 CLASSROOM OUTDOOR EDUCATION
- 12 ELECTRICAL
- 13 MECHANICAL
- 14 COVERED PARKING BAYS
- 15 STUDENT DROP-OFF & PICK UP
- 16 CLASSROOM LANGUAGE
- 17 CENTRAL LEARNING HUB
- 18 ENTRANCE CANOPY
- 19 MAIN LOBBY
- 20 BRIDGE



Exterior Elevations



SOUTH ELEVATION











