

Bachelor of Environmental Design
School of Architecture + Planning
Dalhousie University

RACHEL MACNEIL

portfolio

2017

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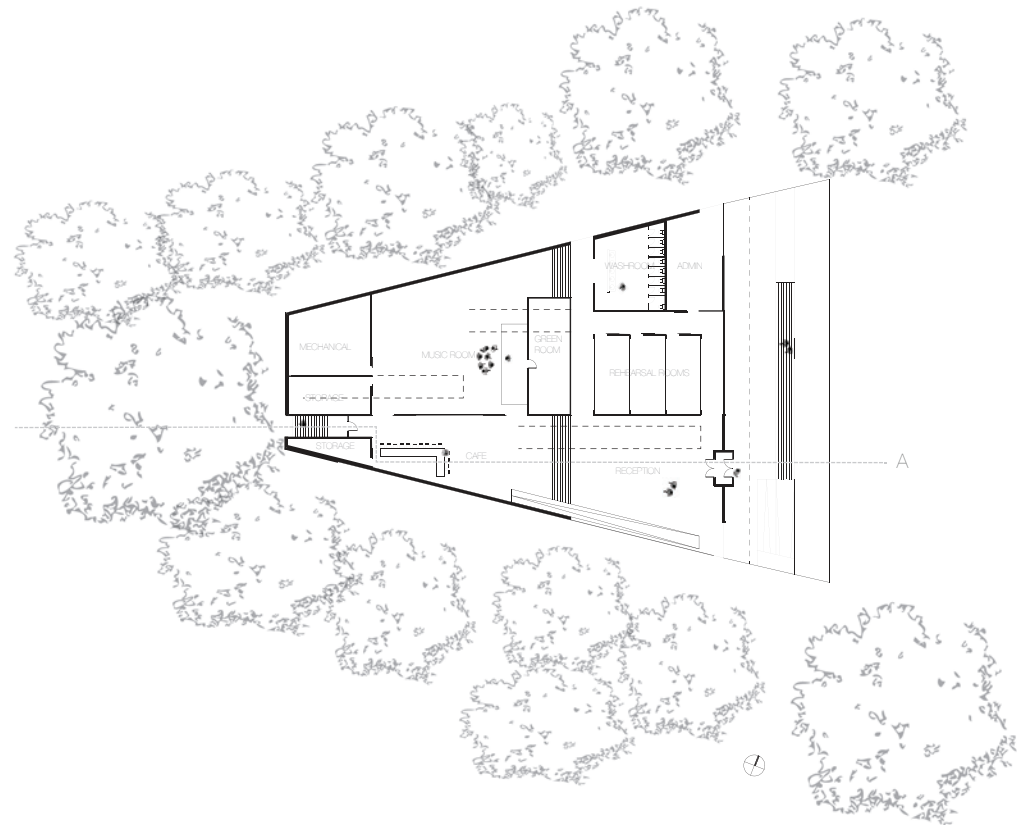
B3 DESIGN: DESCENT MUSIC PAVILION | 2017

The all ages music scene in Halifax has been lost due to a shortage of music venues. This design aims to combat that while celebrating a natural environment within an urban setting. It is partially sunken into the ground to be unobtrusive to the landscape. Three roof cuts create moments of interaction between outside and inside events.

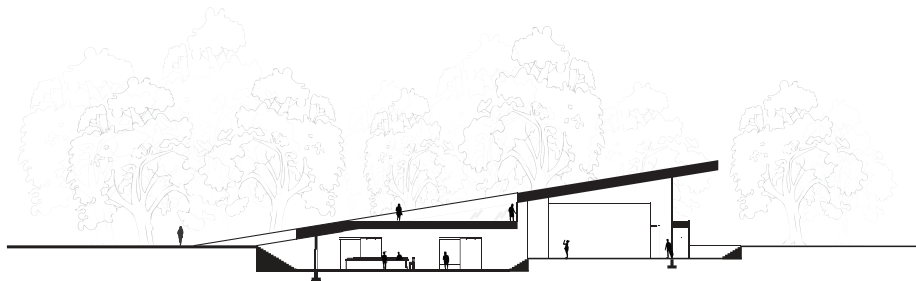
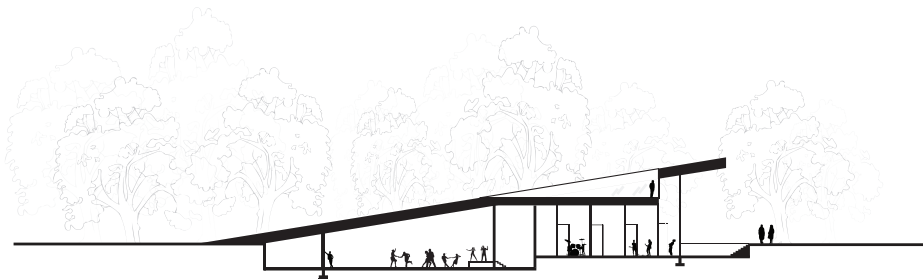
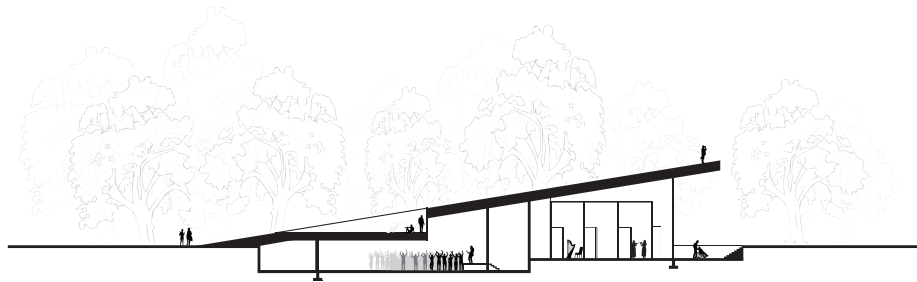
The procession from outside to inside is emphasized by thresholds in each space, giving visitors the sensation that they are moving farther away from the outside world and closer to the anticipated event.



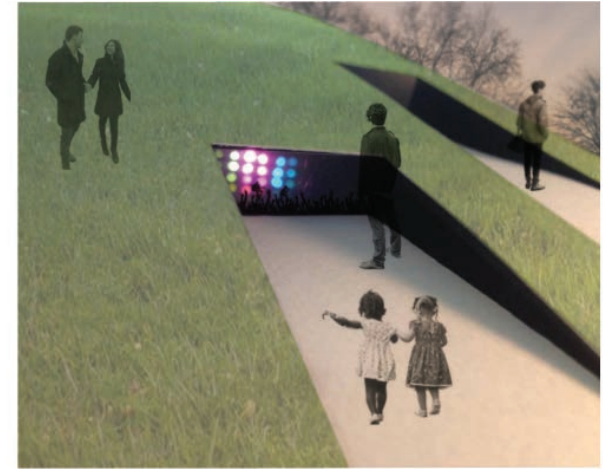
Context map of Halifax Commons and proposed site



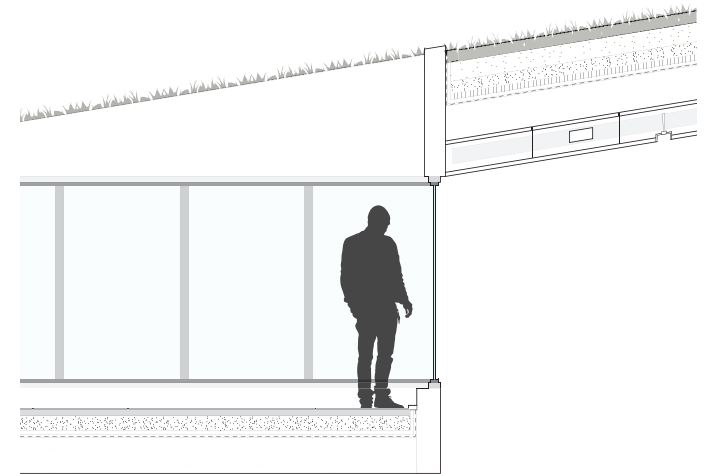
DESCENT MUSIC PAVILION: ROOF CUTS



Roof Cut Sections

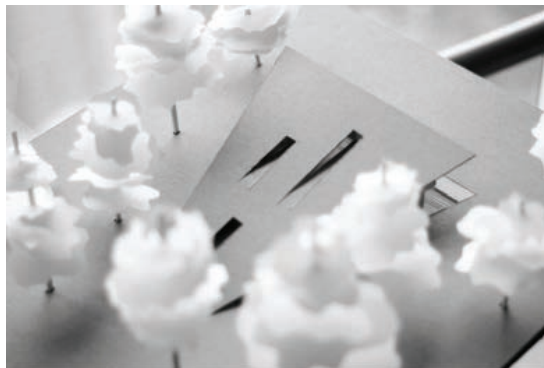
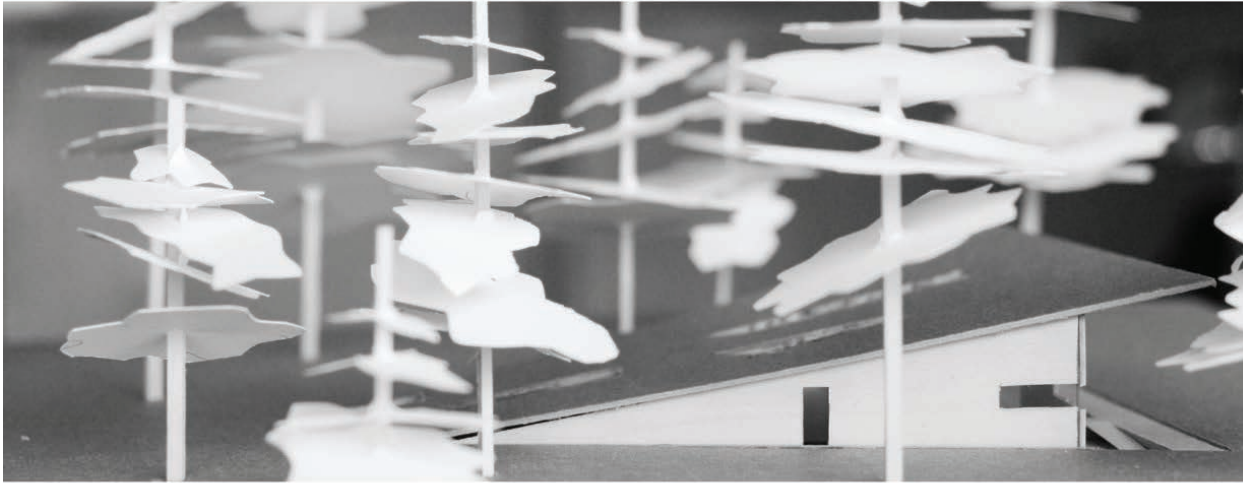


Render of roof cut viewing into the music room



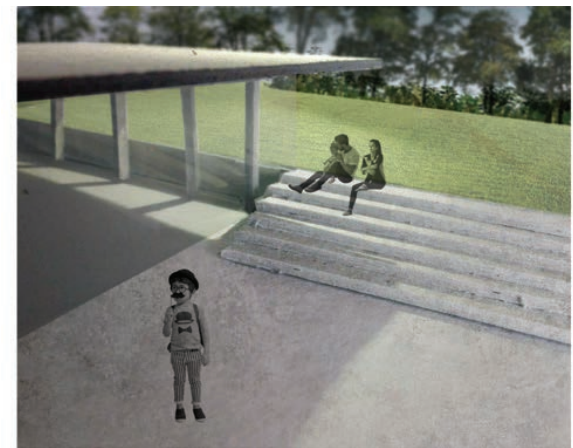
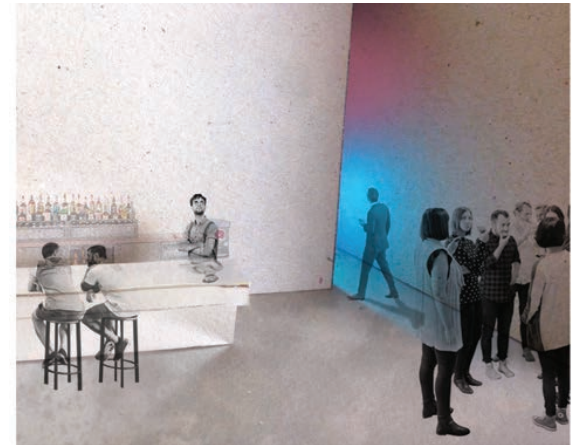
Green Roof & Roof Cut Section

DESCENT MUSIC PAVILION: MODEL



Model Photos

DESCENT MUSIC PAVILION: SEQUENCE RENDERS



FREELAB | 2017

[Freelab: A two week intensive design-build course part of the B3 term]

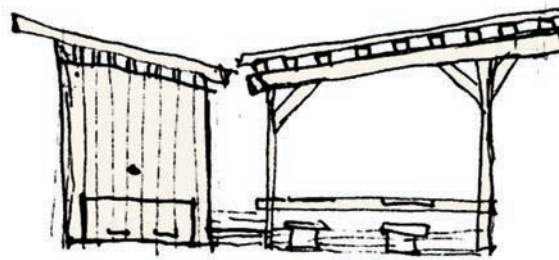
This project called for a replacement toilet for an expensive chemical toilet that existed in a local community garden.

Our design consisted of a custom composting toilet system, a vegetable and tool washing station, as well as a deck and pergola structure for shade.

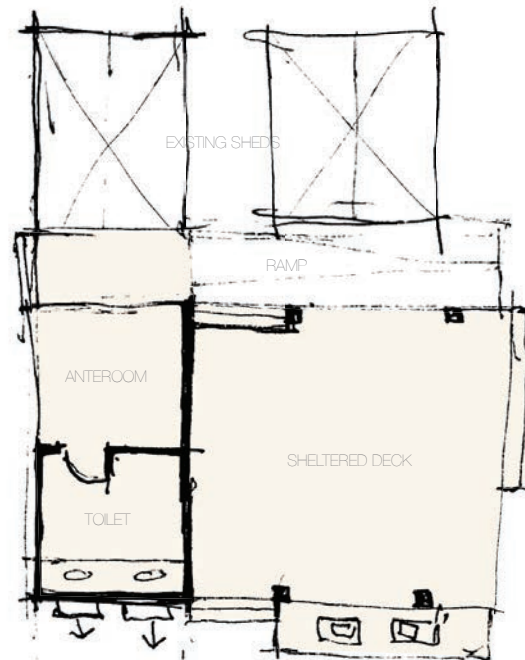
This project took on real clients and gave a hands on experience with construction and solving design problems.

In collaboration with:

Tim Badiuk	Ben Moore
Aya Elgendi	Anita Pop
Sara Leblanc	Greg Urquhart
Jaime Meiteen	Zhuxi Zhou



North Elevation Sketch

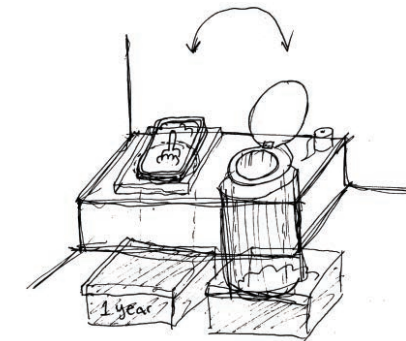


Plan Sketch

WASHING STATION



Toilet and anteroom



Composting toilet system sketch



Pergola details



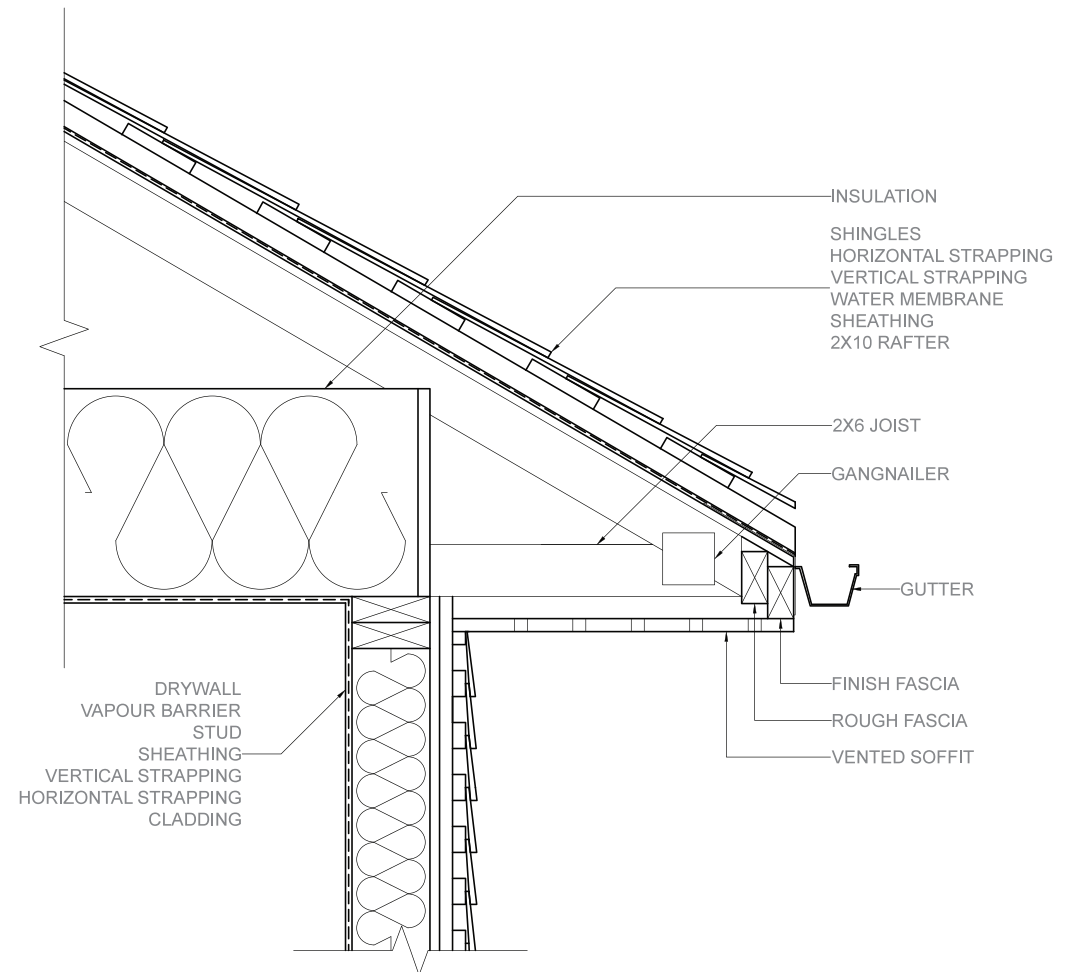
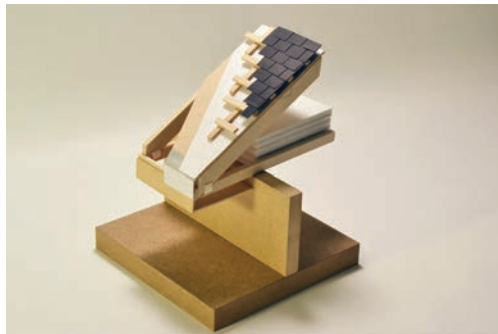
Pergola structure and toilet



Washing station framing the garden

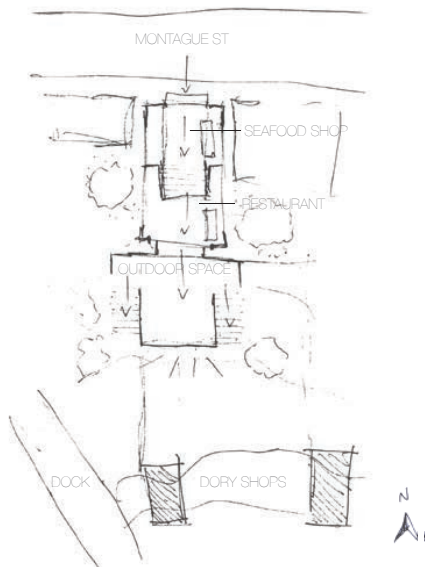
EAVE DETAIL | 2017

A study of a full overhang truss eave condition through technical drawing and a $\frac{3}{4}" = 1'-0"$ model. Research of roof layers and construction make up was self directed.



B2 DESIGN: DORY HOUSE | 2017

This project is located in the UNESCO World Heritage Town of Lunenburg, NS. The design is a seafood market & restaurant with upper flat that carries the live/work typology already apparent in Lunenburg. The design was shaped by cues in the landscape and took formal inspiration from the famous Dory shops located on site. A goal of the project is to reflect our current contemporary society through the architecture, while integrating into the urban fabric and complimenting its heritage neighbours.



Design intentions sketch

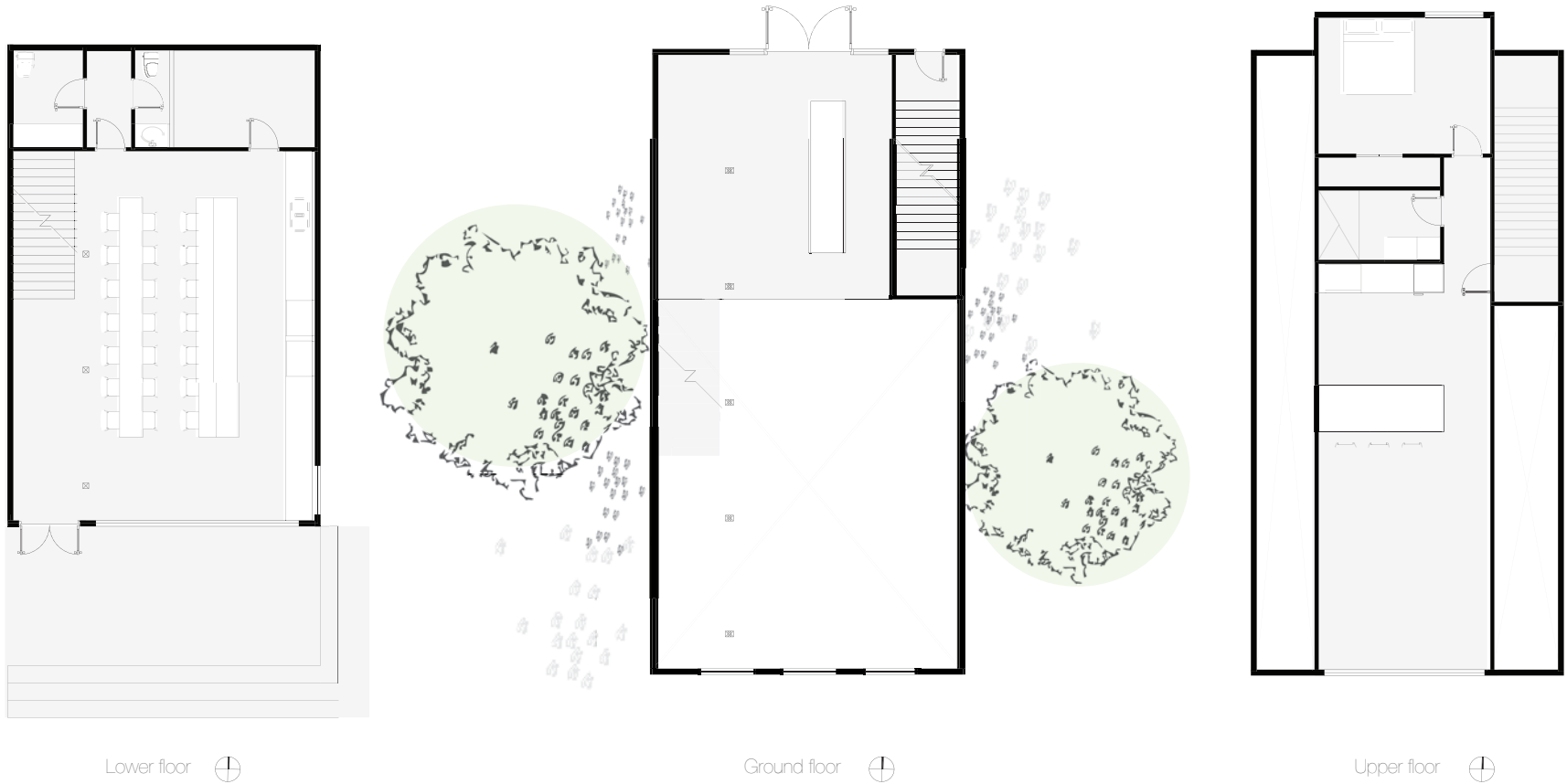


Hand drafted study of current buildings on site



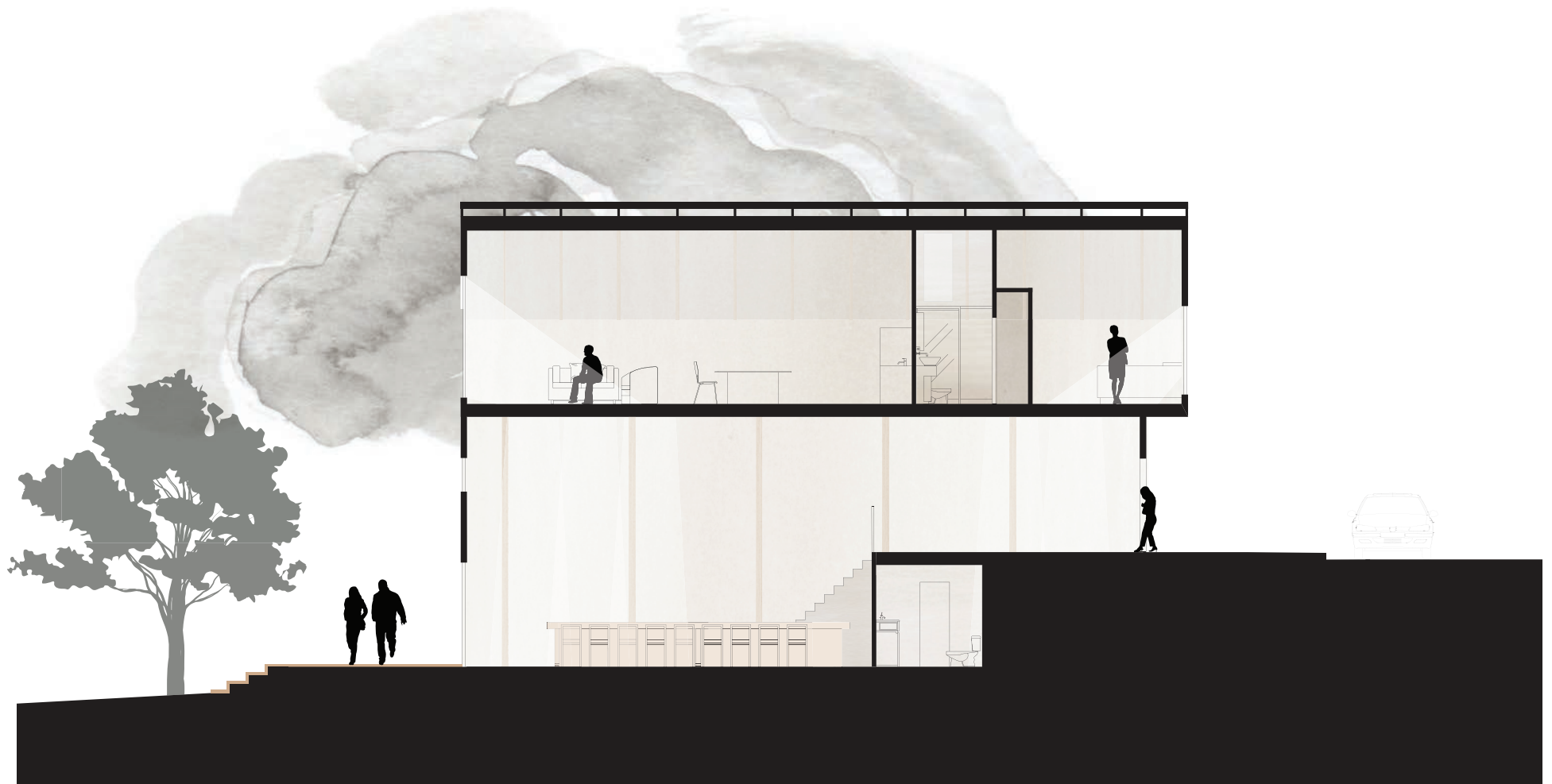
Lunenburg housing typologies sketches

DORY HOUSE: PROPOSED PLANS

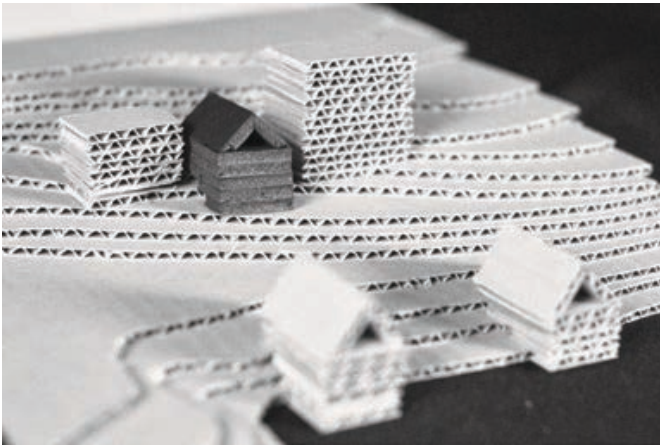


DORY HOUSE: INHABITED SECTION

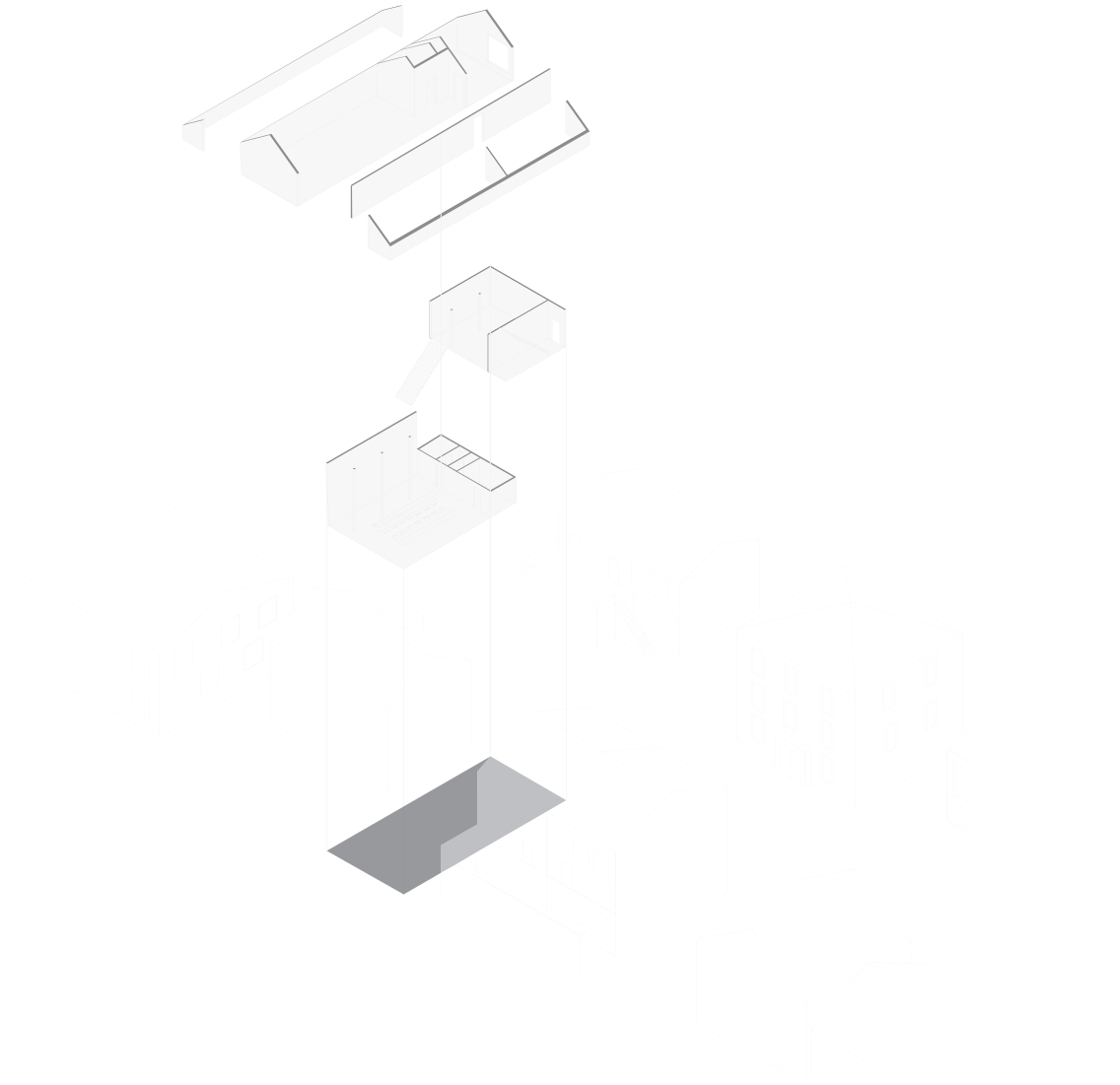
Section showing possible inhabitation of the interior and exterior space



DORY HOUSE: 3D EXPLORATION



Site model showing relationship to dory shops



Axonometric showing makeup of the house

BET GIYORIGS CHURCH: CASE STUDY | 2016

A case study done on Bet Giyorgis, or St. George in Lalibela, Ethiopia. This church is part of a set of 11 rock cut churches dating back to the early 13th century.



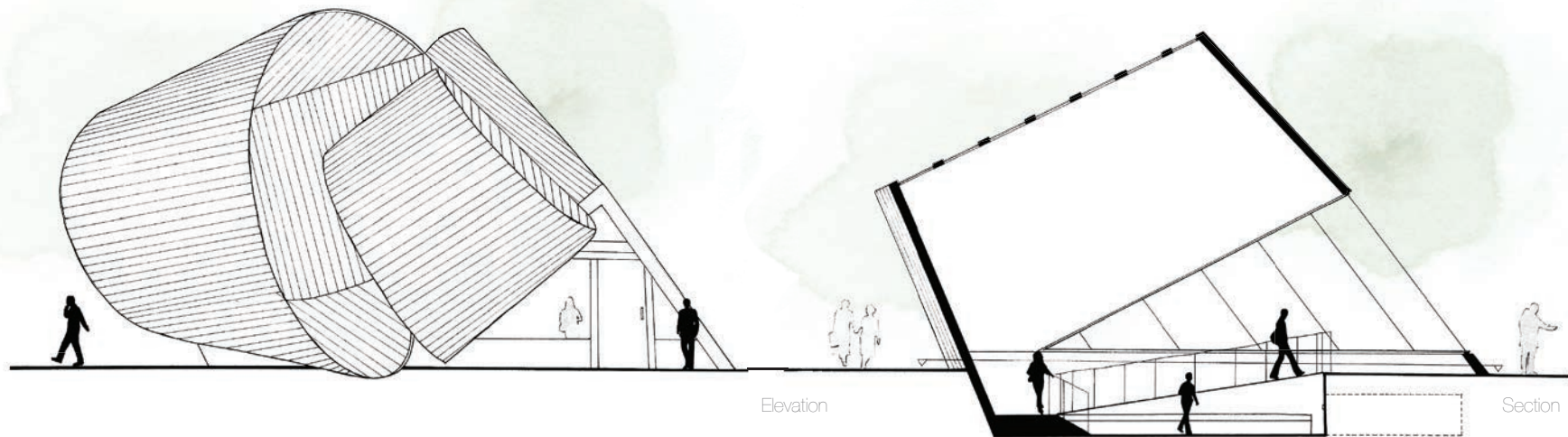
B1 DESIGN: RIBBON PAVILION | 2016

Located in the historically sensitive Cornwallis Park, Halifax, NS, the pavilion design is heavily inspired by Mi'kmaq heritage. It has elements such as a snowshoe patterned roof, traditional basket weaving form, and local birch wood wrapping the exterior. It hopes to strengthen the sense of community with a contemporary use of materials and shapes in the form of a multi use event space.

In collaboration with: Matthew Gillingham



Model showing light patterns from roof



rachelmacneil@dal.ca

1 (902) 579 5556



Personal work: Bonsai Tree graphite drawing