Computer Application Journal #2

Studio Work

Natural Vegetation
in Bioswales

Paneled Facade

Mounds Formed from
Excavated Earth
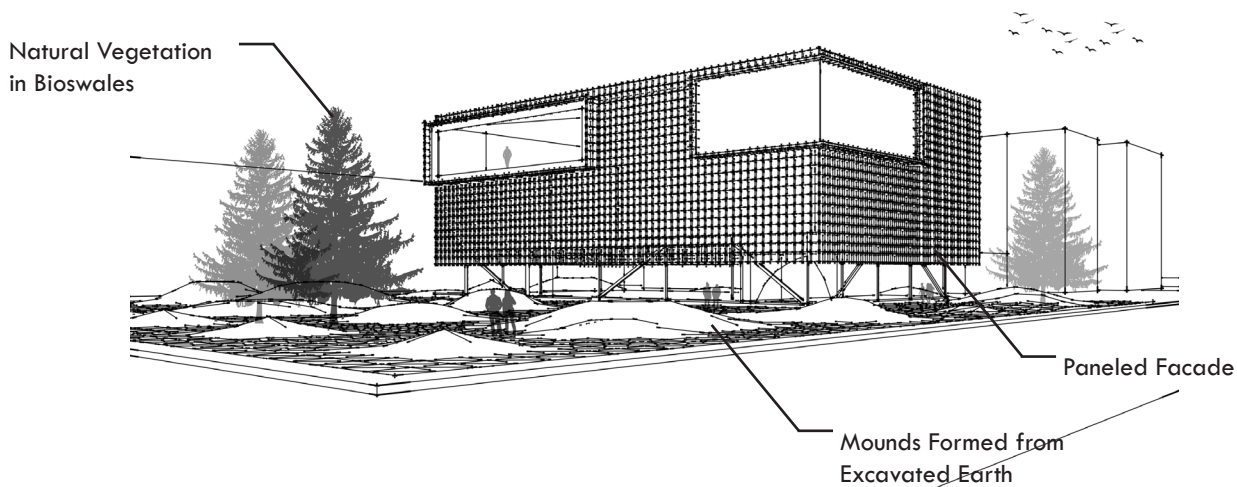
Black and White Perspective created in Sketchup, Photoshop, and Indesign for a studio presentation.
9/24/22

Third Floor Ecology

Lecture Hall

Norm Asbjornson Hall

First Floor Ecology

South Elevation
0   5   10   20   50
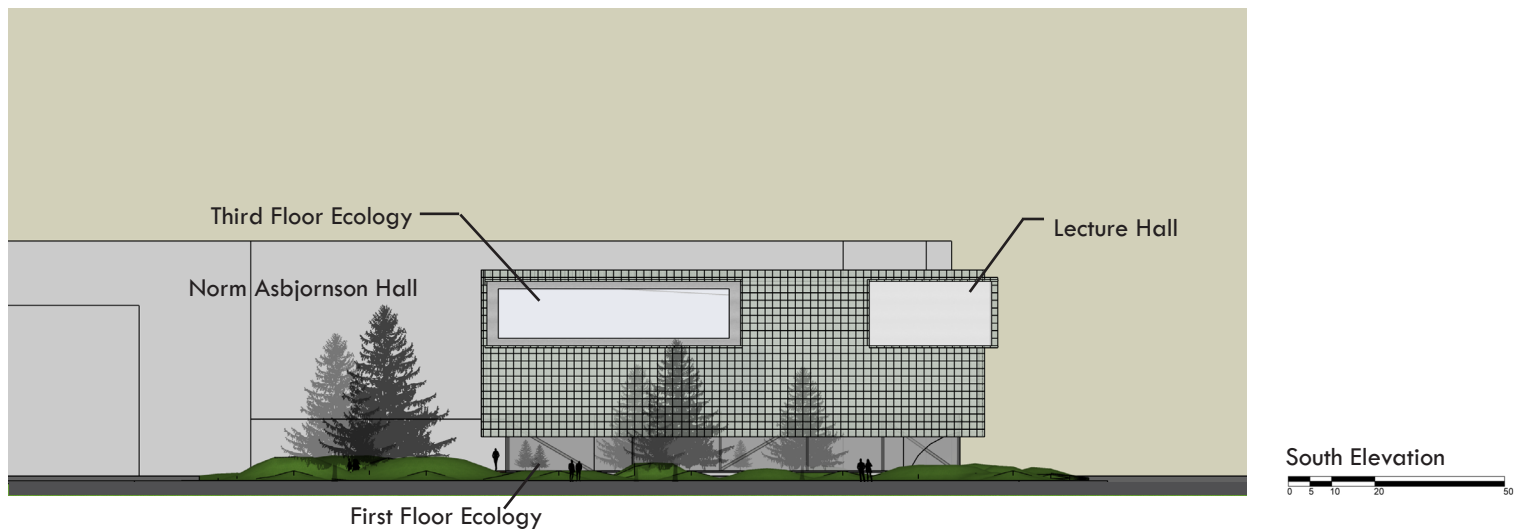
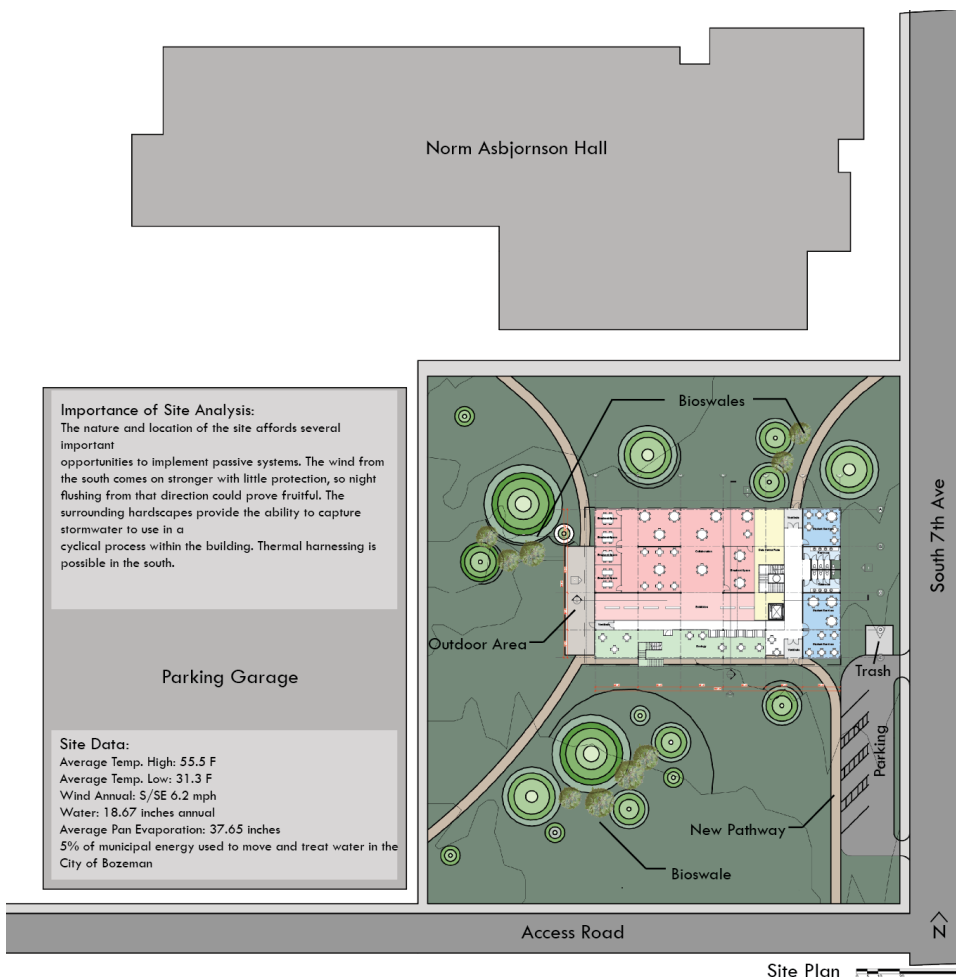Exterior Elevation created in Sketchup, Photoshop, and Indesign for a studio presentation.
9/24/22

Building Section 1

0	5	10	20			50

Research Lab · Computer Lab · Computer Lab · Lecture

Faculty Office · Classroom · Classroom · Classroom

Exhibition · Student Services
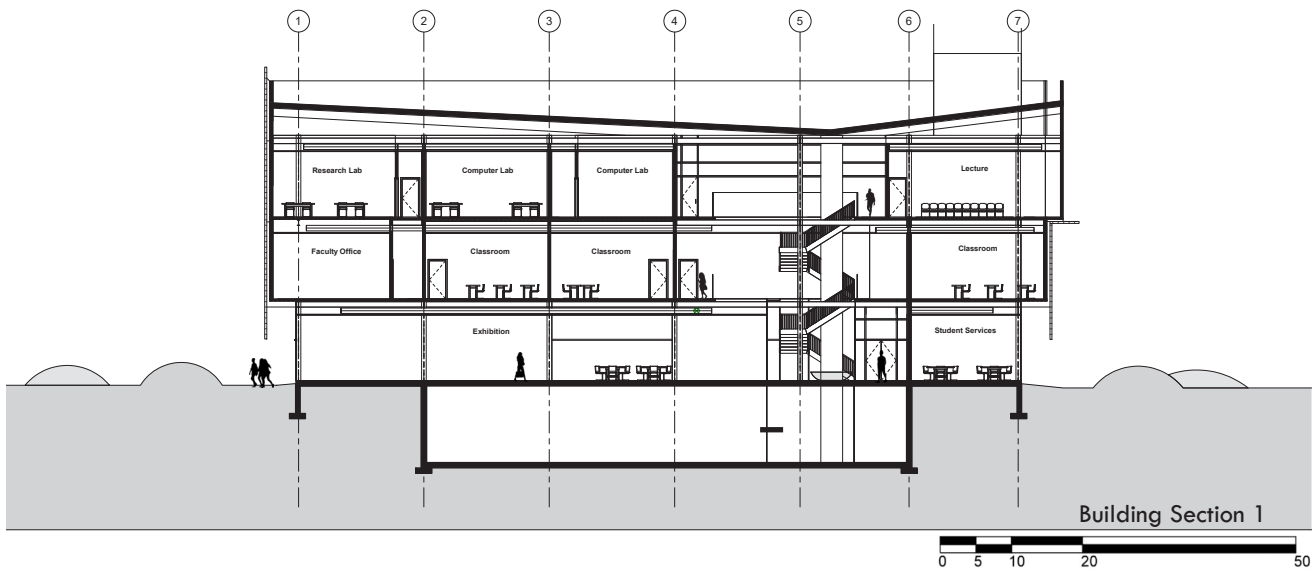
Building Section for studio project, created in Revit and Indesign
9/23/22

Norm Asbjornson Hall

Importance of Site Analysis:
The nature and location of the site affords several important
opportunities to implement passive systems. The wind from the south comes on stronger with little protection, so night flushing from that direction could prove fruitful. The surrounding hardscapes provide the ability to capture stormwater to use in a
cyclical process within the building. Thermal harnessing is possible in the south.

Parking Garage

Site Data:
Average Temp. High: 55.5 F
Average Temp. Low: 31.3 F
Wind Annual: S/SE 6.2 mph
Water: 18.67 inches annual
Average Pan Evaporation: 37.65 inches
5% of municipal energy used to move and treat water in the City of Bozeman

Bioswales

South 7th Ave

Outdoor Area

Trash

Parking

New Pathway

Bioswale

Access Road

N

Site Plan

Site Plan also for studio project, created using Sketchup and Illustrator.
9/25/22

02
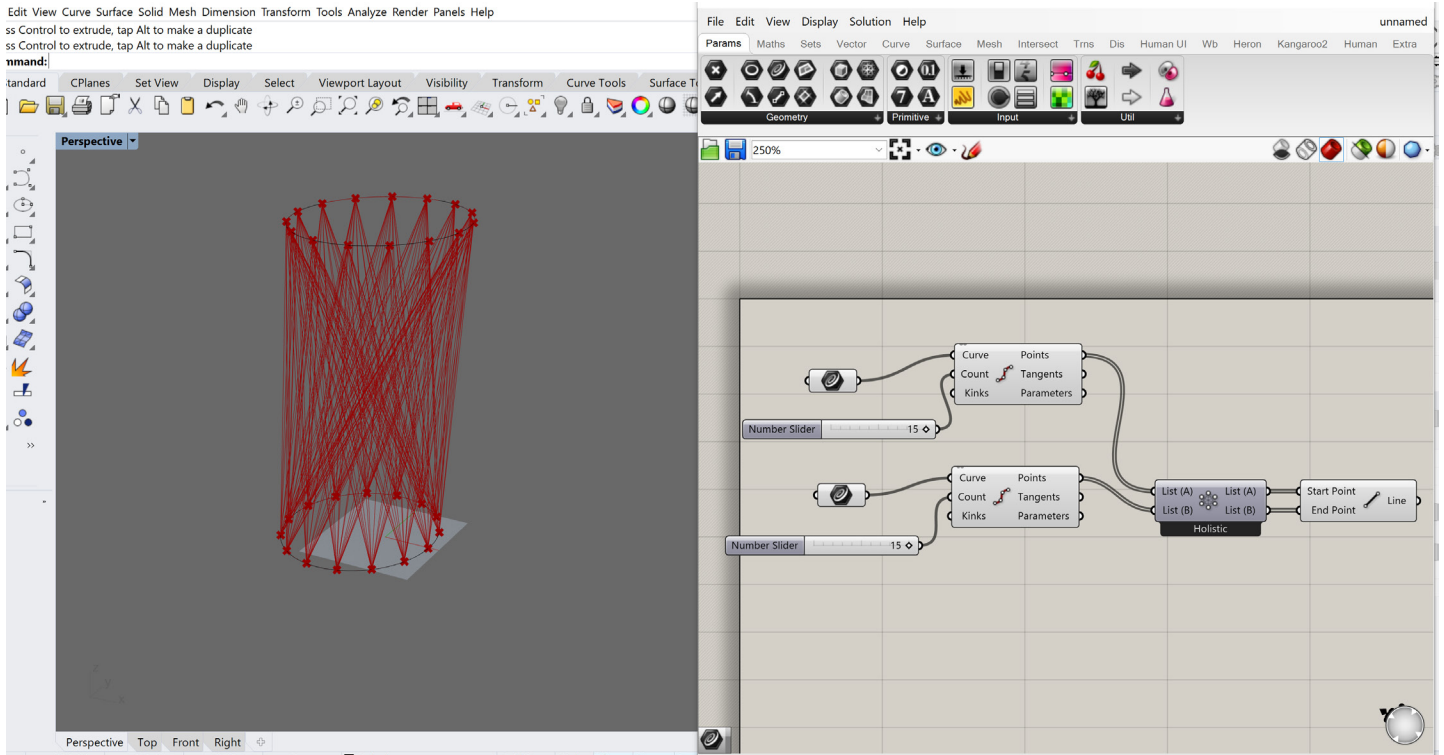
Cross referencing data trees using the grasshopper plugin in Rhino.

9/20/22