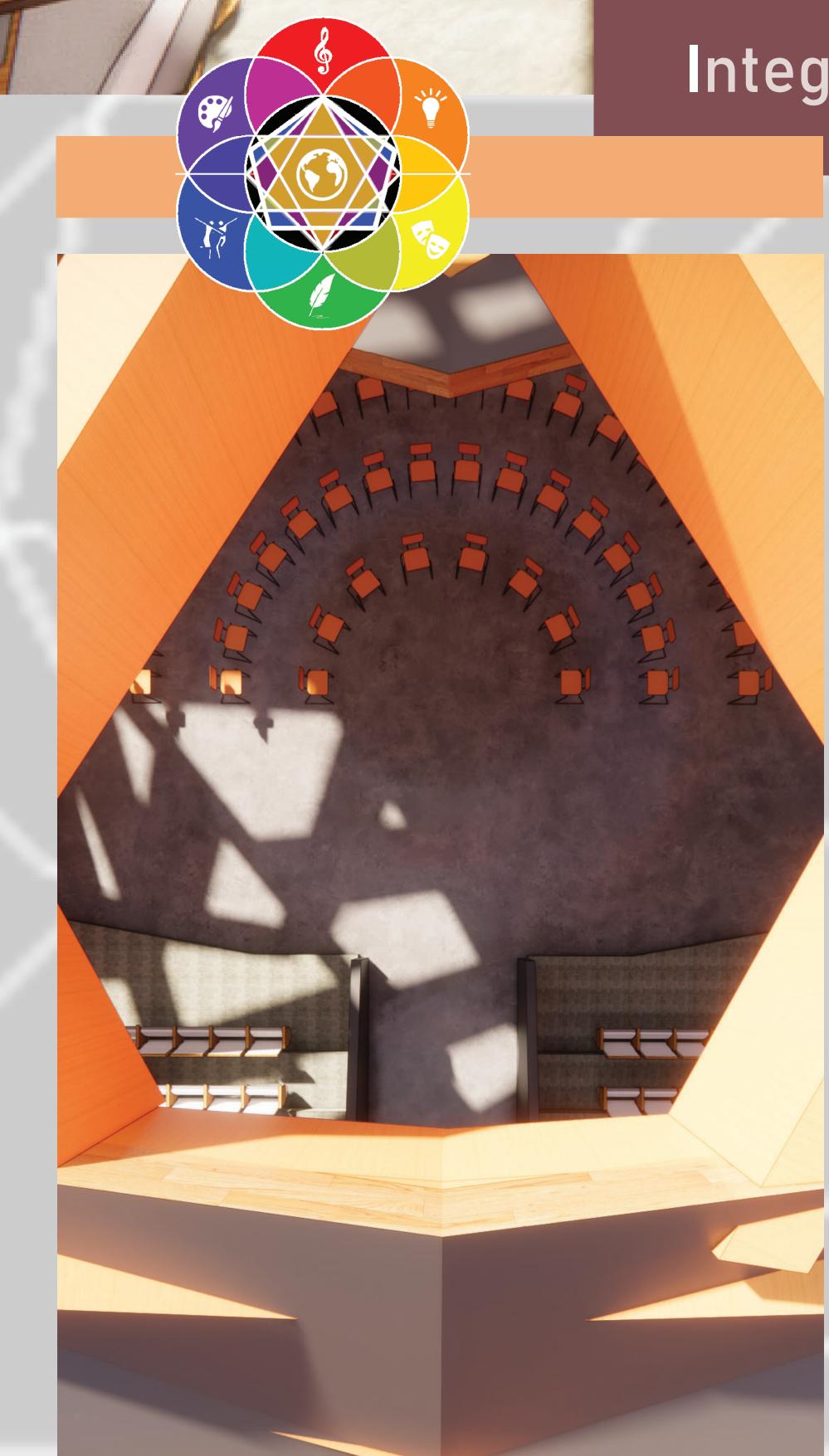


SYNERGY



Integrating Performing and Fine Arts

Abstract

Music has proven to be beneficial to students, both academically and socially, as has gemeral education in the fine arts. Over the years, the arts have proven to take giant strides when the artists are a part of an environment that encourages collaboration within and between artistic disciplines and social backgrounds. This design strives to create an environment that encourages an enjoyable, collaborative, and educational experience for performance and fine arts students of various backgrounds and nationalities. This includes designing a performance and fine arts facility as well as revamping current lodging for campers and staff at the International Music Camp along the United States-Canada border.

Creating this environment involves understanding the core of the arts, both culturally and aesthetically. One can say that from the knapping of stones came variations of the savored, of tone, and of order - and with these varying preferences of varying peoples. Although vastly different, the core is the same, though primarily forgotten in our world. All are bound together in the realm of proportion and harmonious order. The design uses these proportions to create a space for the arts' variations to exist in and around their similar core and for the people to do the same.

Process

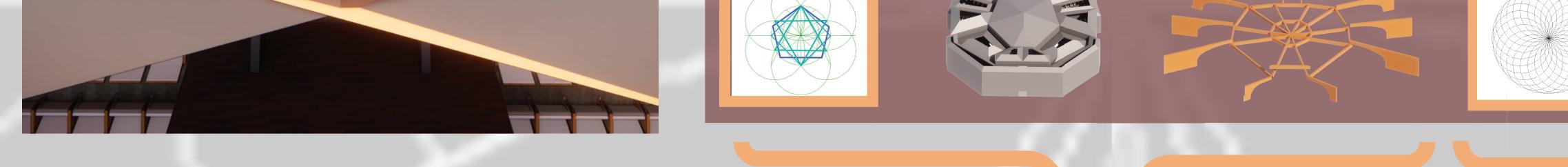
The project began with a grid comprising of shapes found frequently in the connections within different art fundamentals, such as the color wheel and circle of fifths. Circles, being the most common in art, dance, and music, comprize most of the grid and help to create the remaining shapes, most notably a pentagram and Star of David, which are frequently found in the mentioned fields and the realm of harmonics, which is present everywhere. The intersections of this grid created the form of the auditorium.











Keystone

Due to the unique shape of the auditorium, it required a structural system that could span the auditorium without hindering the view. The turtle shape was adopted, however the keystone arrangement did not accomodate well for the shell-like "bumps".

Karbandi

Karbandi is a structural system used in Persian architecture. It involves placing arches on a grid (see above) and rotating them so that they intersect. This structural system created multiple possible solutions and allowed for the "shell" to be more prominent. Arches were also chosen due to the glulam structures seen in most buildings throughout the site.

Elevations

North

West

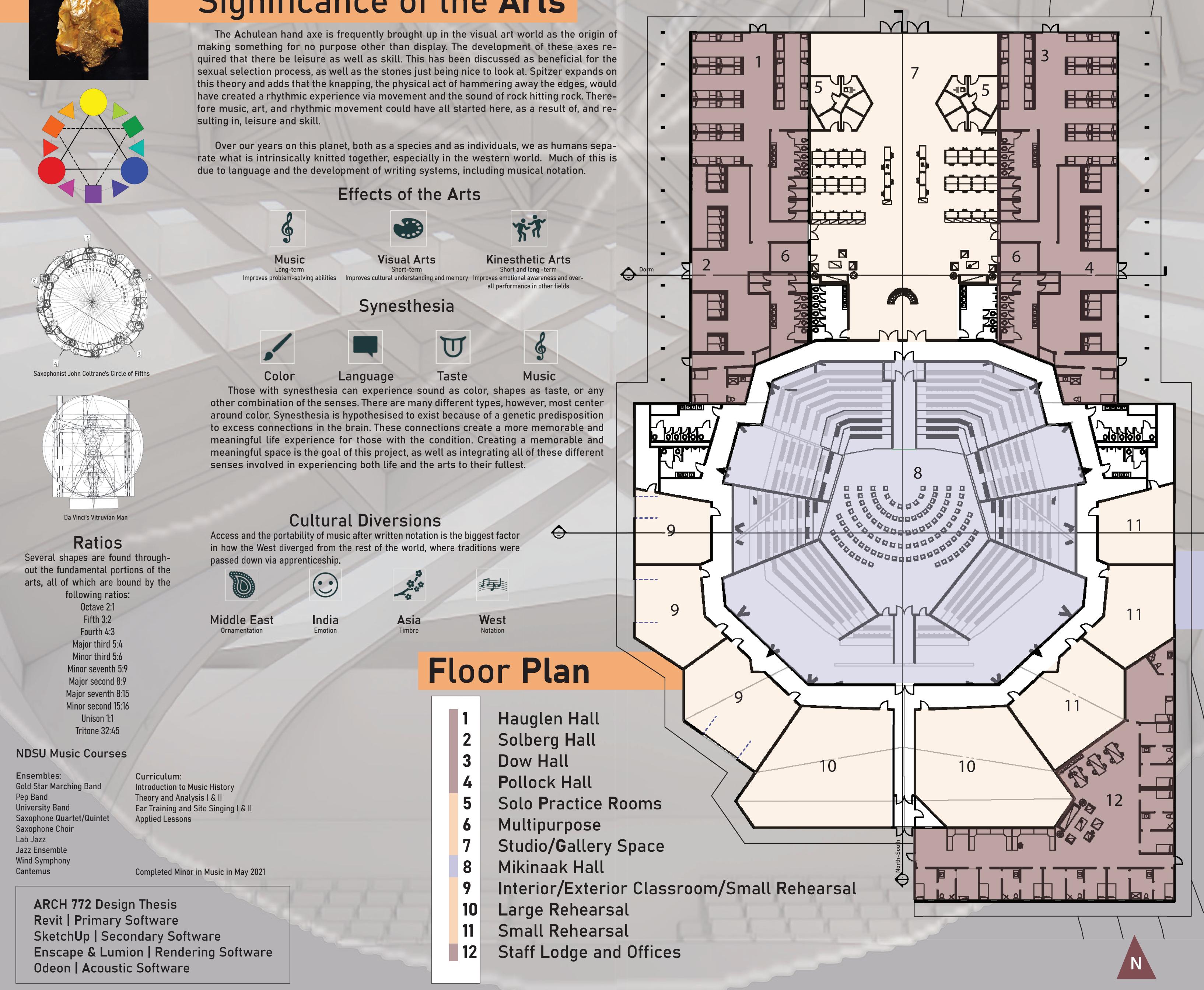
11



Achulean Hand Axe



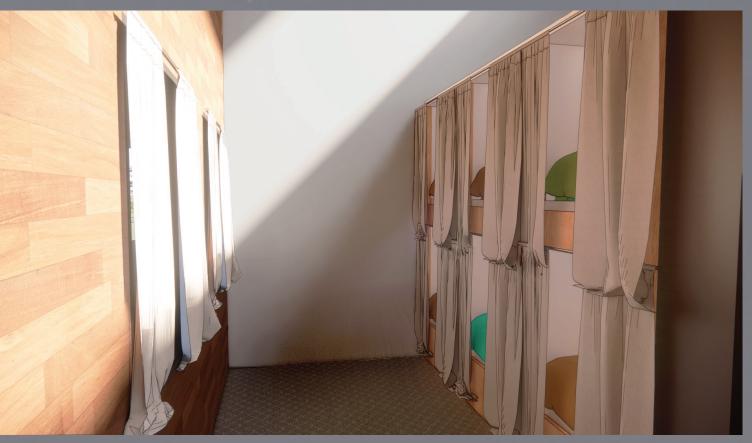
Over our years on this planet, both as a species and as individuals, we as humans sepa-



Grid Process



Staff Bed



Pod Dorm



Hostel Dorm



Studio/Gallery



Staff Lounge

Classroom

Scale: Music Time Rel. Direct

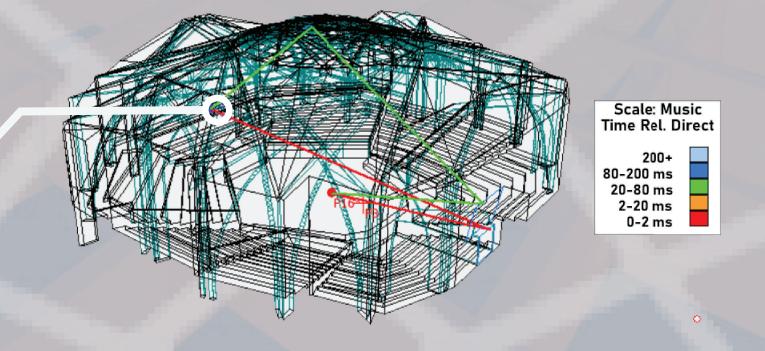
200+ 80-200 ms 20-80 ms 2-20 ms 0-2 ms

in state

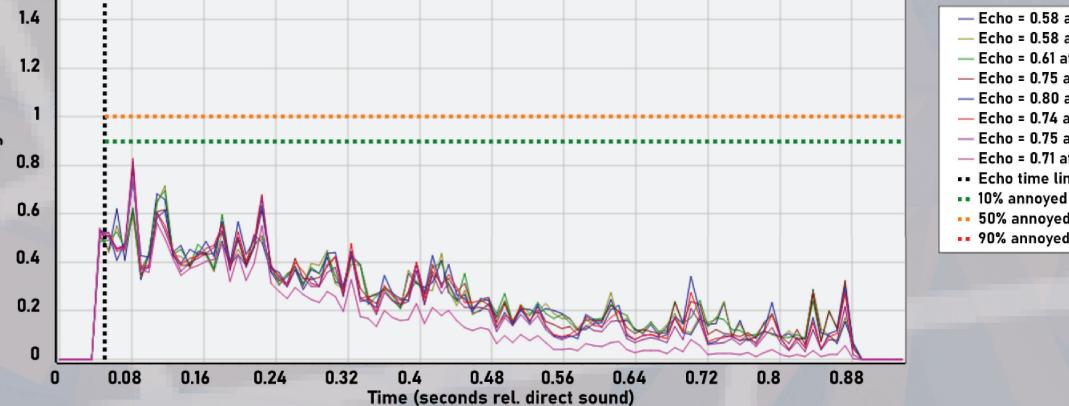
Acoustic Simulation

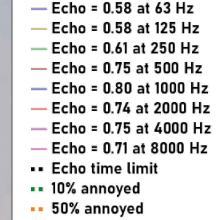
Below is a diagram of the auditorium set up for Gustav Mahler's Symphony No. 1. The two audience members' sound experience are shown to the right. The reflectograms demonstrate the path sound takes from the performer to the audience the Dietch echo curves determine the quality of audio.

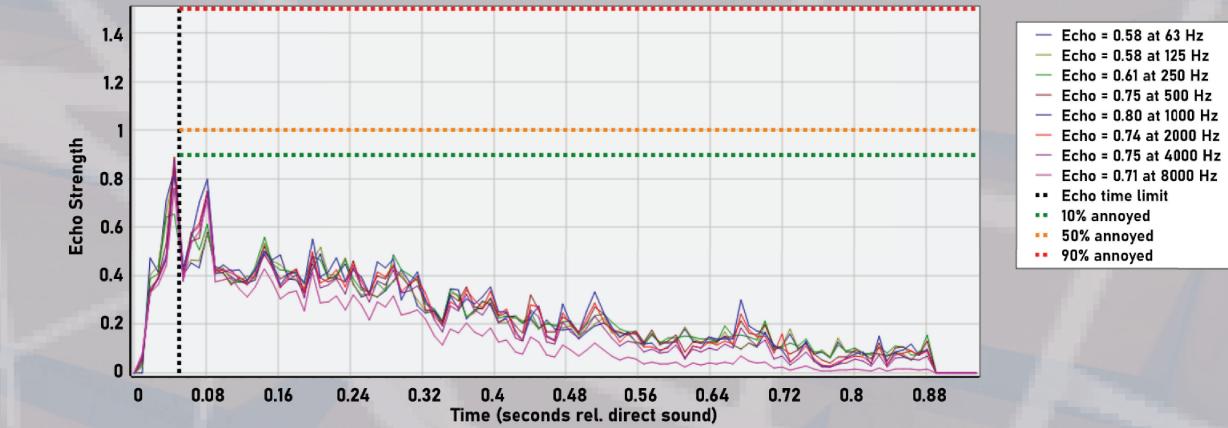




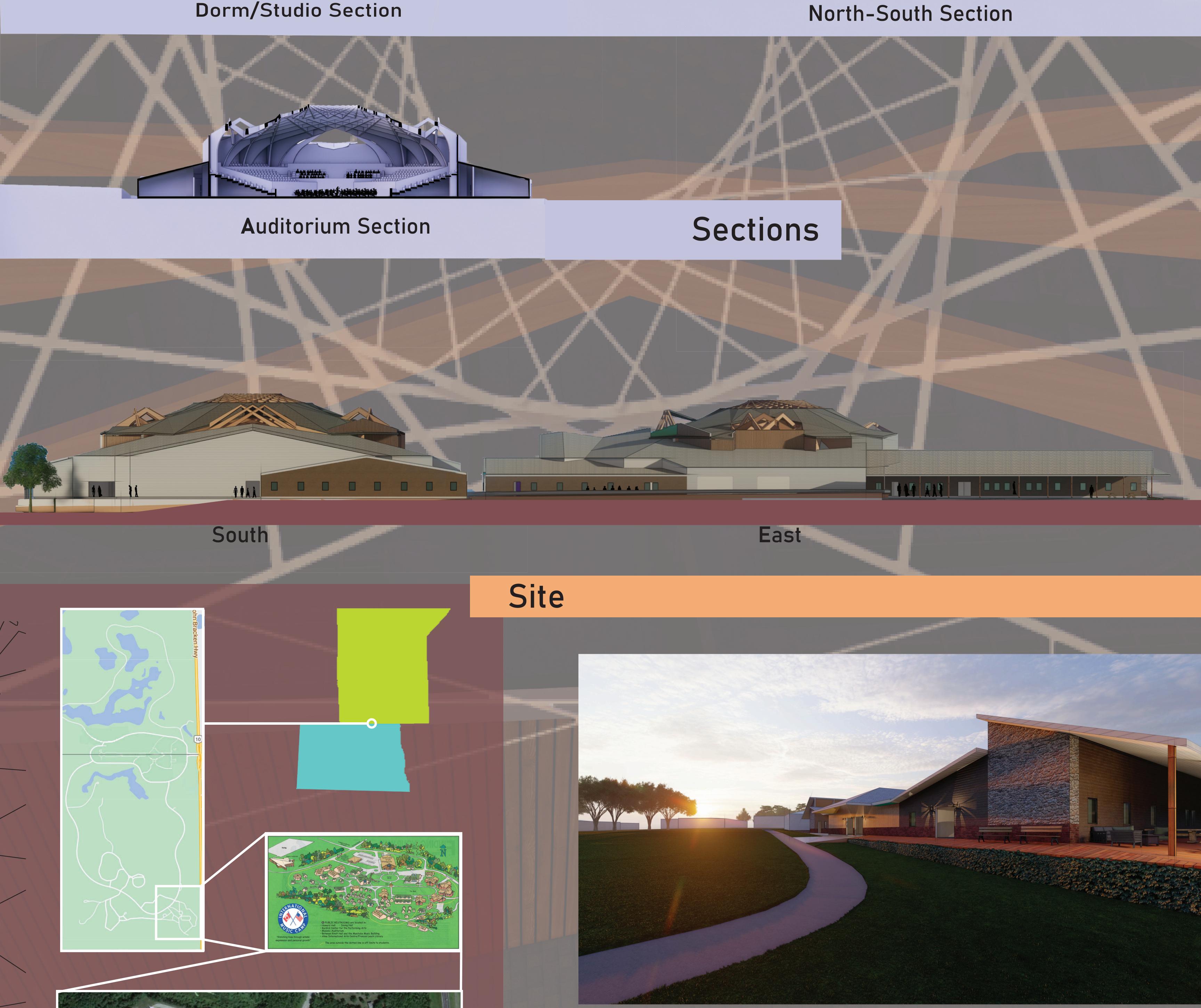
Dietch Echo Curves







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Site History: What's with the Turtle?

While designing this project using the harmonic grid, a turtle "emerged" from the lines. As insignificant as a turtle may seem to be, this is not the case when it comes to the premise of this project. Firstly, the location of the site is in the Turtle Mountain Region. This area was named by the local Native American tribes whose creation story involves a turtle that "emerged" from the depths of the sea during the great flood. This created a mound of land, hence "Turtle Mountain". In Ojibwe legend, the turtle's name was Mikinaak, which is also the Ojibwe word for "snapping turtle". This seemed a fitting name for the hall, as the Peace Gardens are on what was significant land for the native tribes.

Turtles also make frequent appearances around the world in many different creation stories, such as in Hinduism, further accentuating the connections between cultures and the arts internationally -- fitting for an international camp in an international peace garden.

International Music Camp Summer School of Fine Arts, International Peace Garden, U.S.-Canada Border

Region: Turtle Mountains of North Dakota and Manitoba

The International Music Camp (IMC) iiwas chosen as a site due to the programs already in place. It incorporates all ages, all nationalities, and many forms of art, making it an ideal environment for interdisciplinary artistic collaboration. The Peace Garden promotes similar thoughts, encouraging the intermingling of people and ideas. Having the site embody all these ideas was the main basis for the selection.

Parking (see left map) will consist of shuttles from the Peace Garden lots, as well as limited parking on site. A lot was added to the South of the complex and the East road was widened to accomodate for streetside parking.



