

AE125 PROJECT:

THE LEARNING LODGE

PAVILLION DESIGN



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ACKNOWLEDGMENTS

We acknowledge that much of our work takes place on the traditional territory of the Neutral, Anishinaabeg and Haudenosaunee peoples. Our main campus is situated on the Haldimand Tract, the land granted to the Six Nations that includes six miles on each side of the Grand River. Our active work toward reconciliation takes place across our campuses through research, learning, teaching, and community building, and is coordinated within the Office of Indigenous Relations.



Presently, this project was done with close consultations with Myeengun Henry, University of Waterloo Indigenous Knowledge Keeper.

DESIGN NARRATIVE

"Waterloo is an equitable community that leads the world in learning, discovery and caring."
- City of Waterloo Community Vision, 2019-2022 Strategic Plan

PURPOSE & LOCATION

The pavilion will be **located in the Arboretum along the Interior Perimeter Walkway** as it signifies a close connection to nature—This is integral towards the beliefs and practices of the Haudenosaunee, Anishinaabeg, and Neutral Peoples' cultures.

The pavilion is **aimed towards educating** patrons of Waterloo Park about the Indigenous history and immersive culture of the area.



PRECEDENTS

GENERAL



SHEFFIELD WINTER GARDEN

*SHEFFIELD, UNITED KINGDOM
PRINGLE RICHARDS SHARRATT ARCHITECTS*

Showcases interesting sensory experience during
different seasons and moments of the day.

BAMBOO PAVILION

*TAICHUNG, TAIWAN
ZUO STUDIO*

Utilizes light as a unique learning opportunity.



PRECEDENTS

INDIGENOUS



DEER CLAN LONGHOUSE

MILTON, CANADA
BROOK MCILROY, PAUL GORRIE

Educational aspects of the longhouse and how they were incorporated was closely analyzed.

SPIRIT GARDEN

THUNDER BAY, CANADA
BROOK MCILROY

Embodies simplicity while including intricate details.



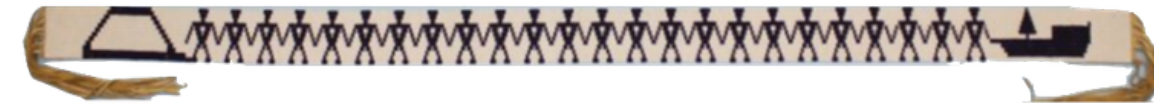
WAMPUM BELTS



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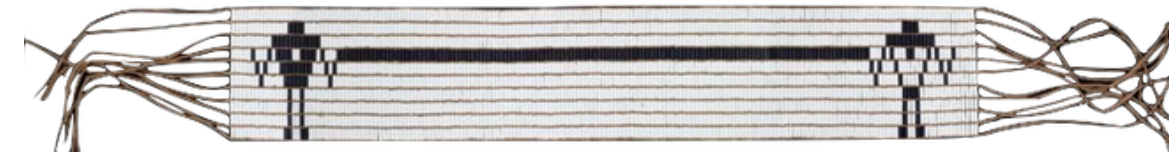
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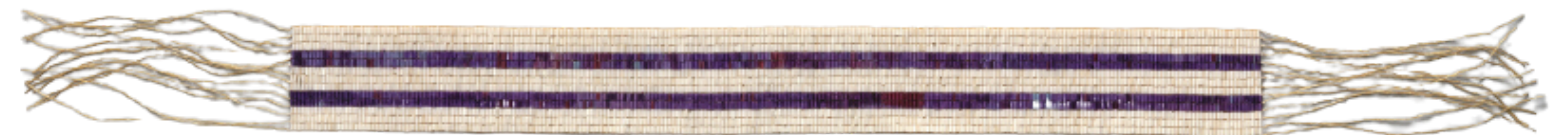
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(3) T H E C O V E N A N T C H A I N O F F R I E N D S H I P [1 7 5 6]



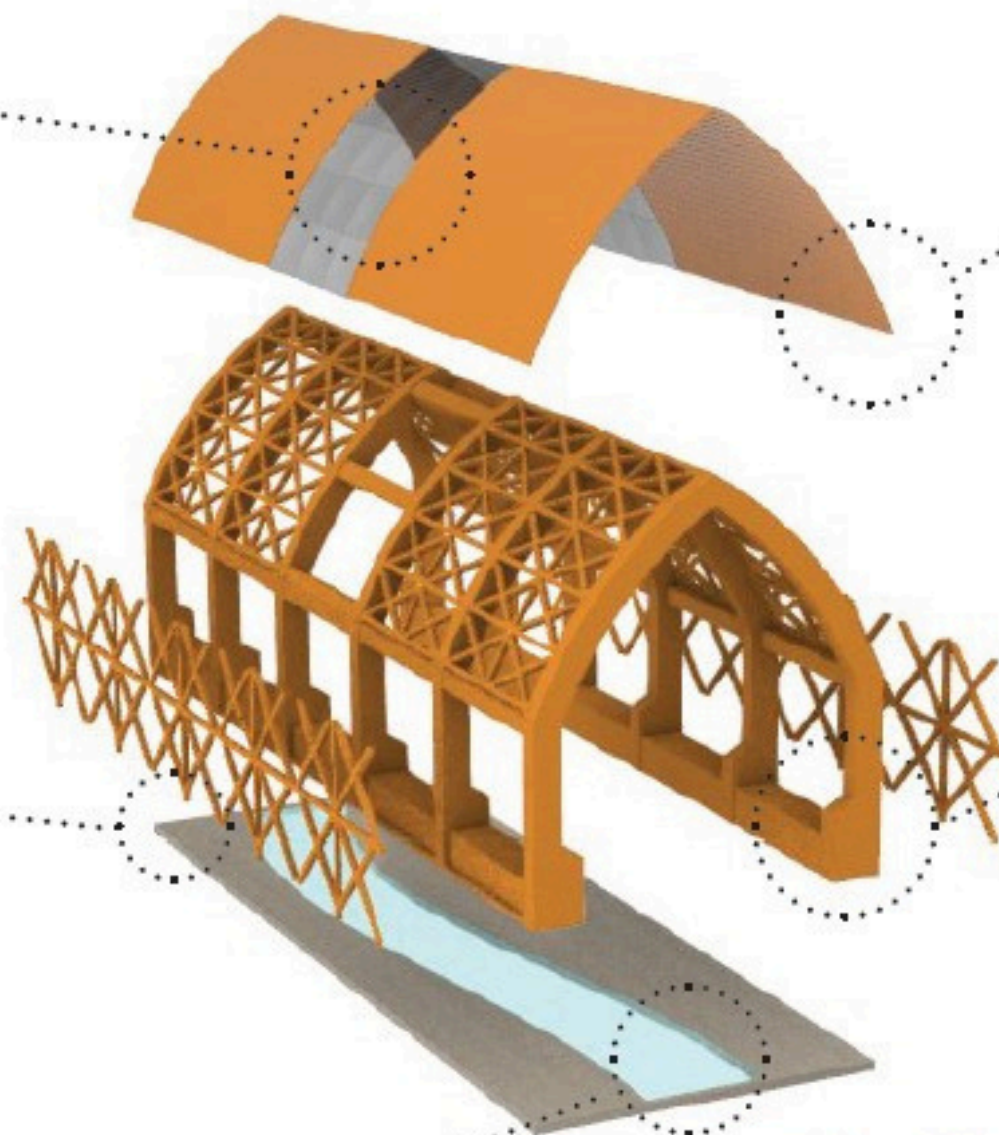
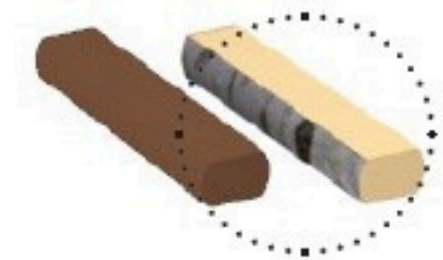
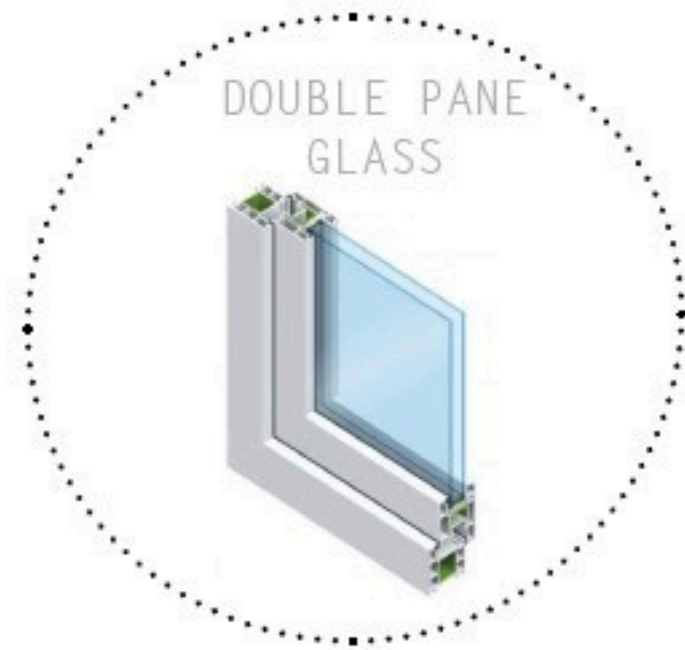
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(1) L A N D A C K N O W L E D G E M E N T

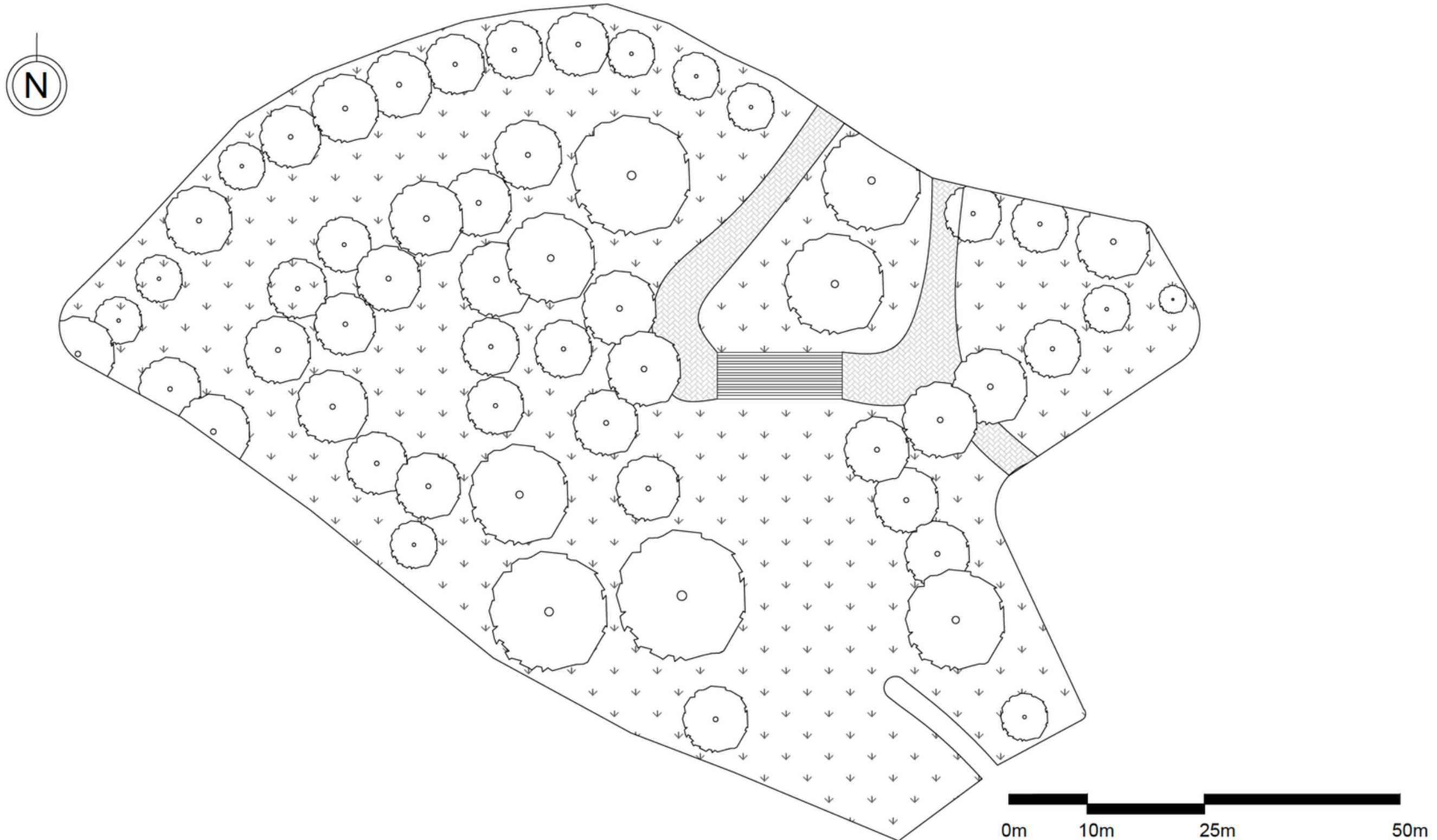
We acknowledge that much of our work takes place on the traditional territory of the Neutral, Anishinaabeg and Haudenosaunee peoples. Our main campus is situated on the Haldimand Tract, the land granted to the Six Nations that includes six miles on each side of the Grand River.

MATERIALITY

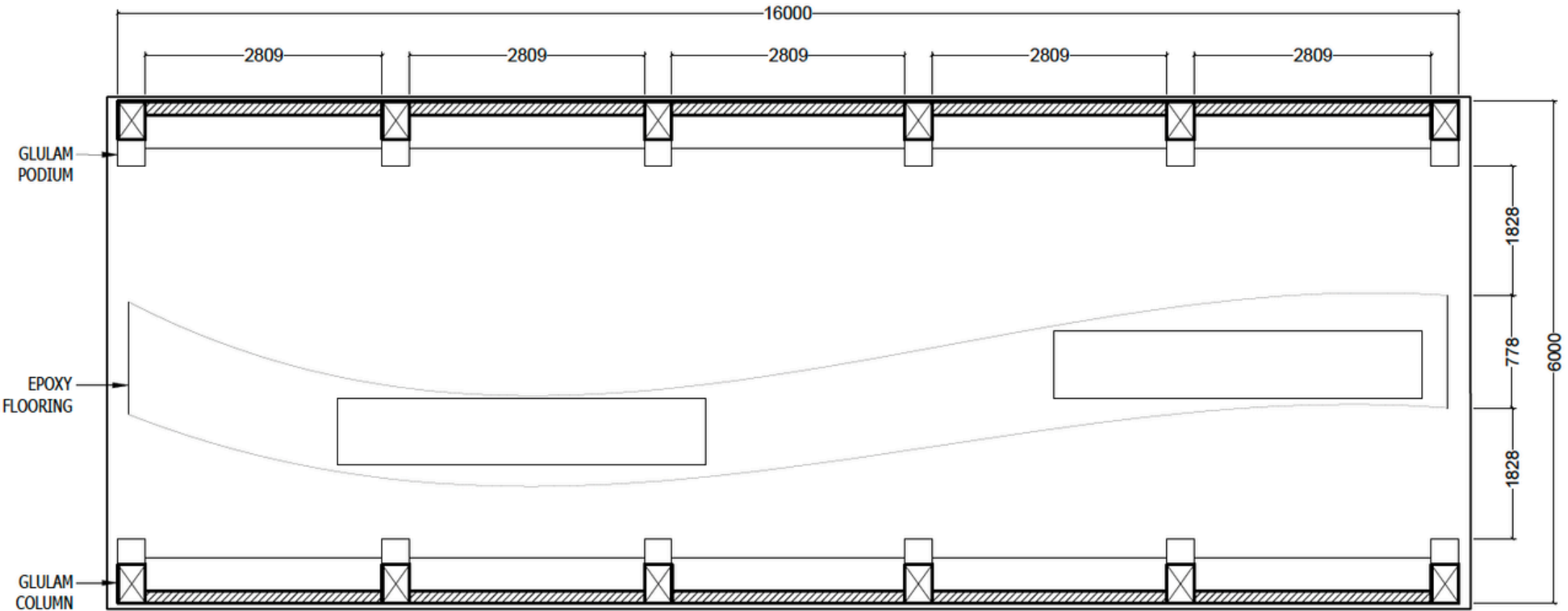


DRAWING SET

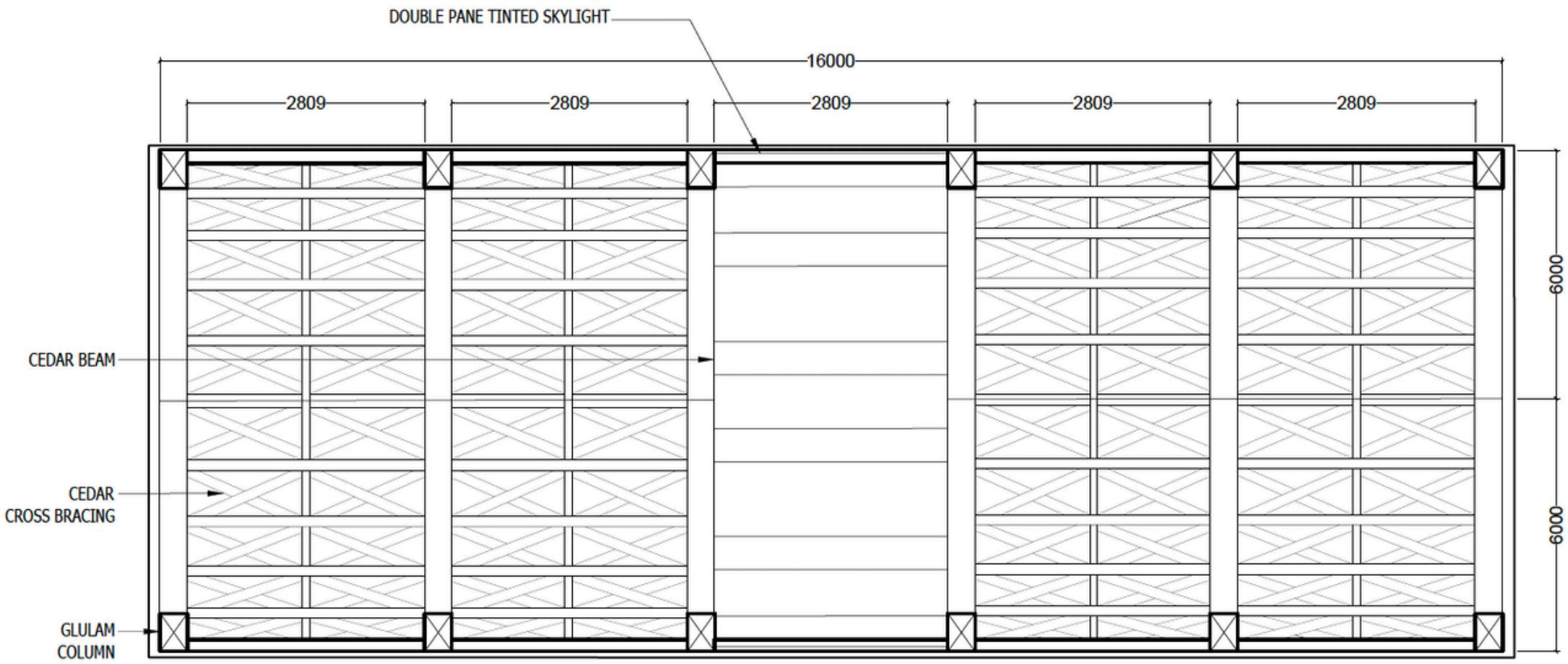
SITE PLAN



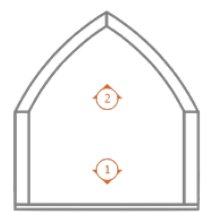
DRAWING SET



FLOOR PLAN

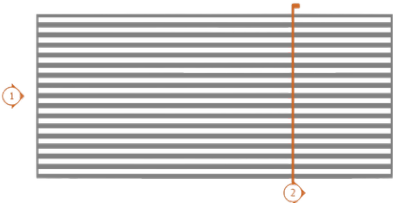
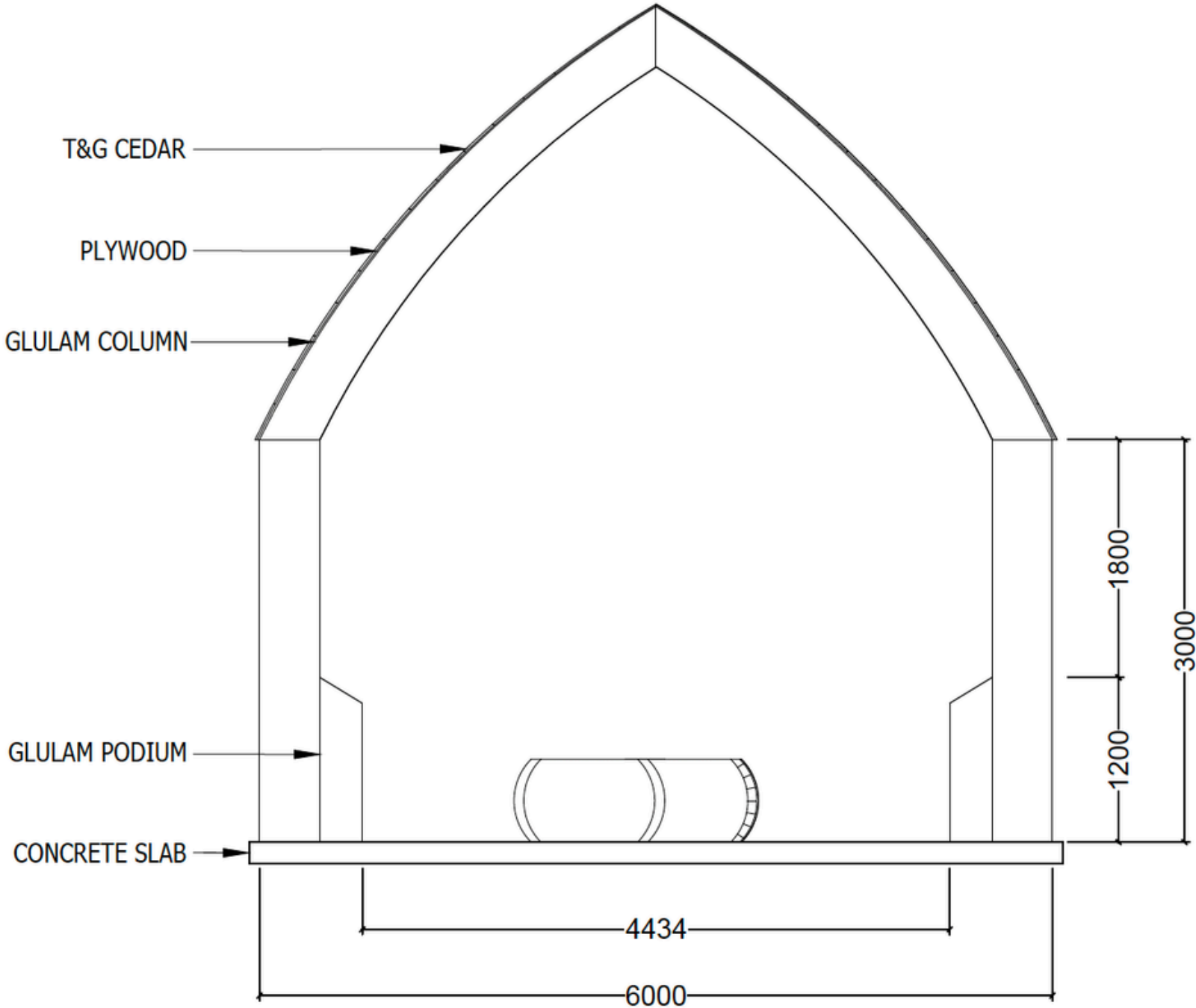


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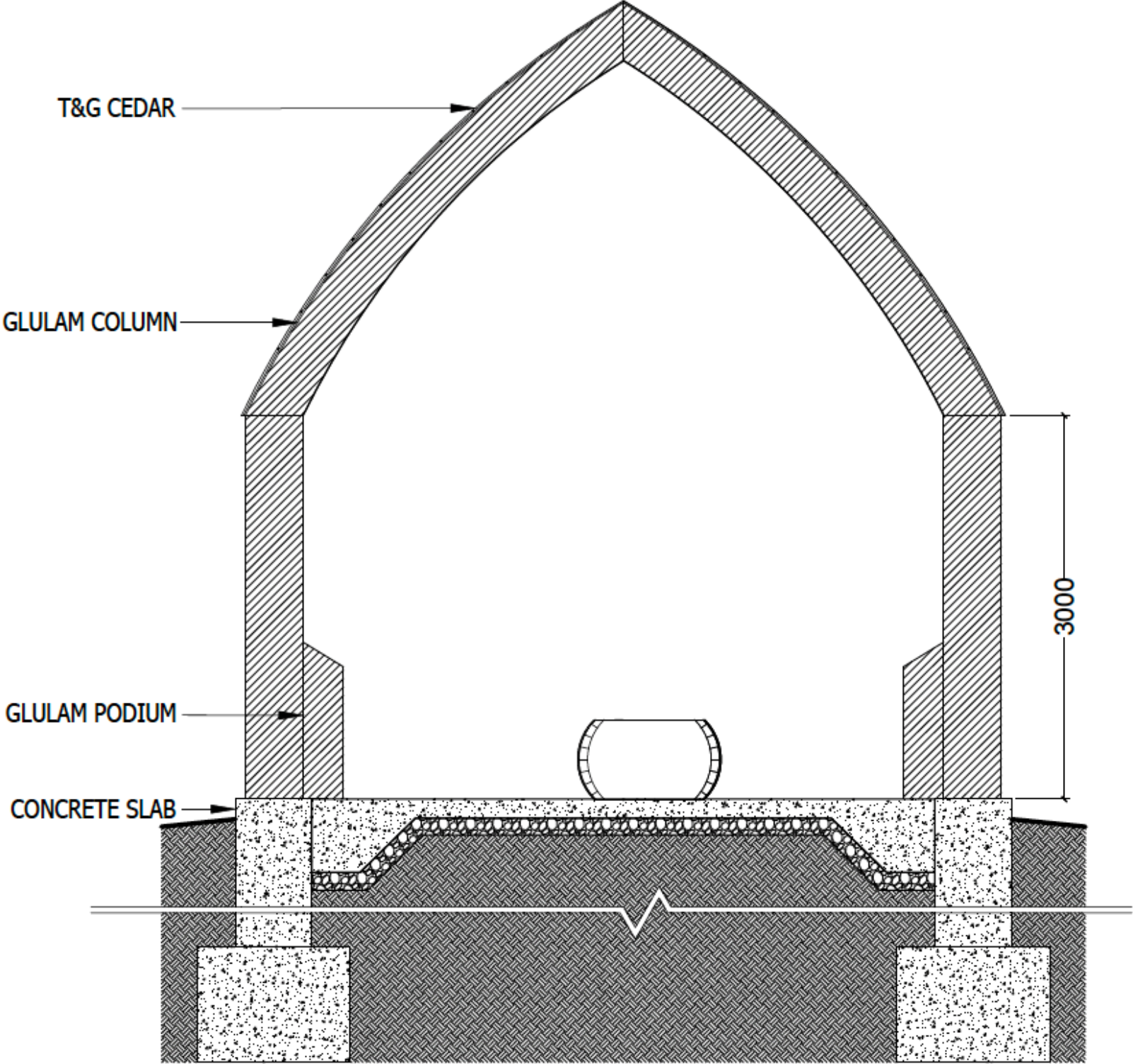


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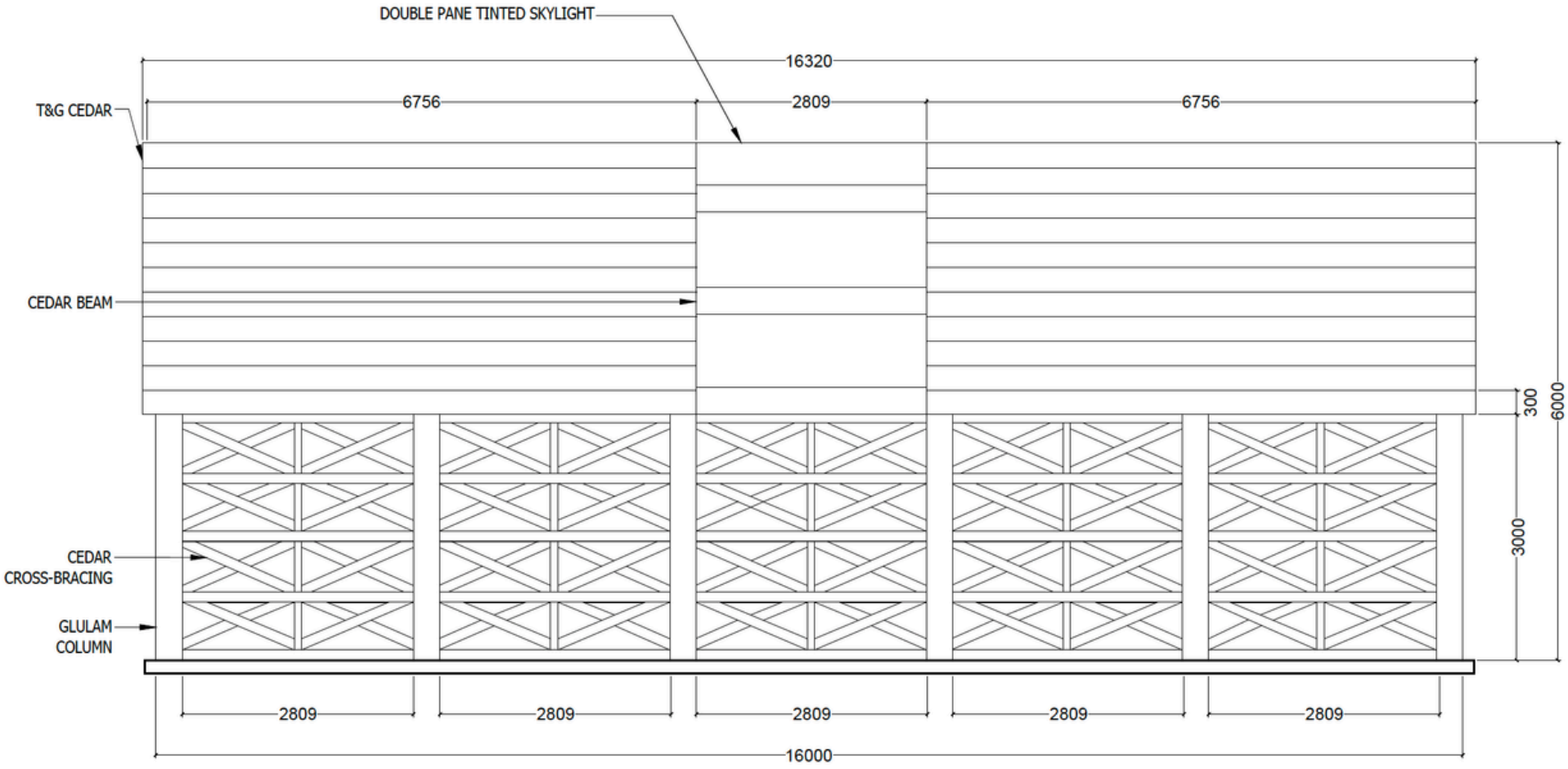
EAST ELEVATION



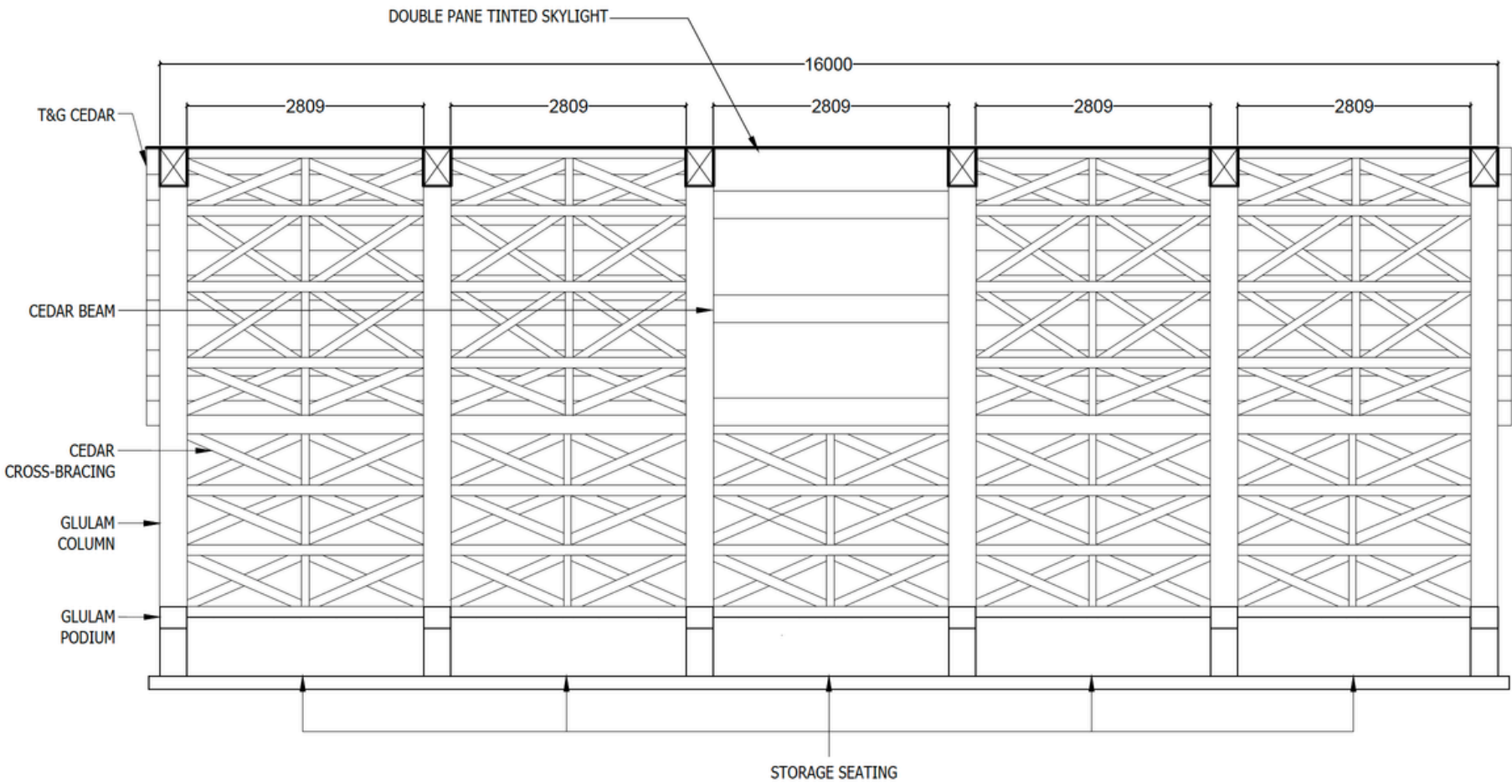
SECTION



DRAWING SET



SOUTH ELEVATION

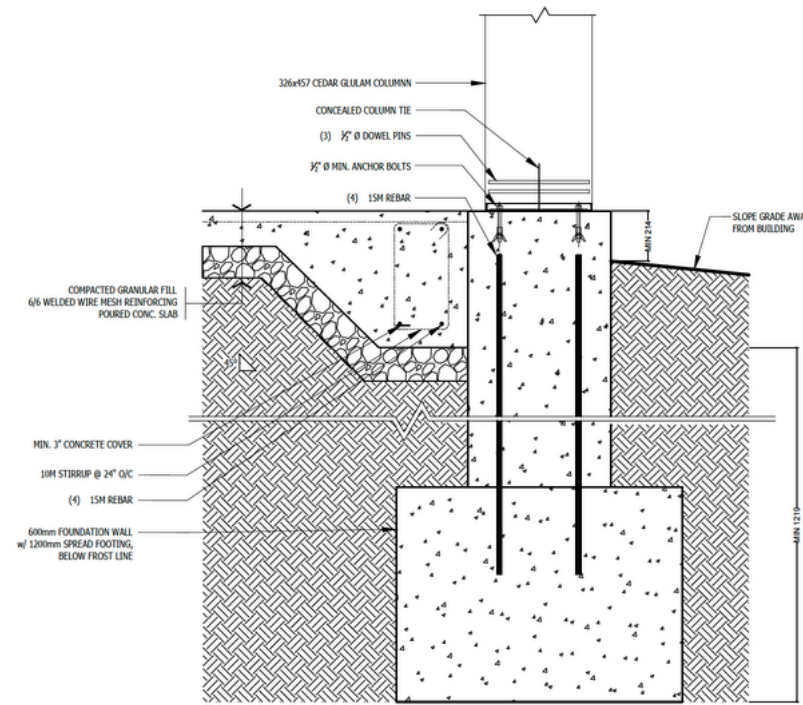


EAST - WEST SECTION

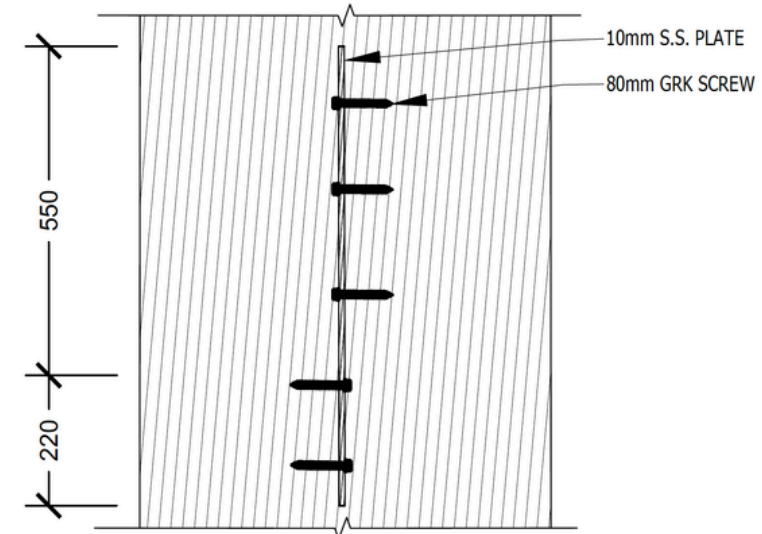


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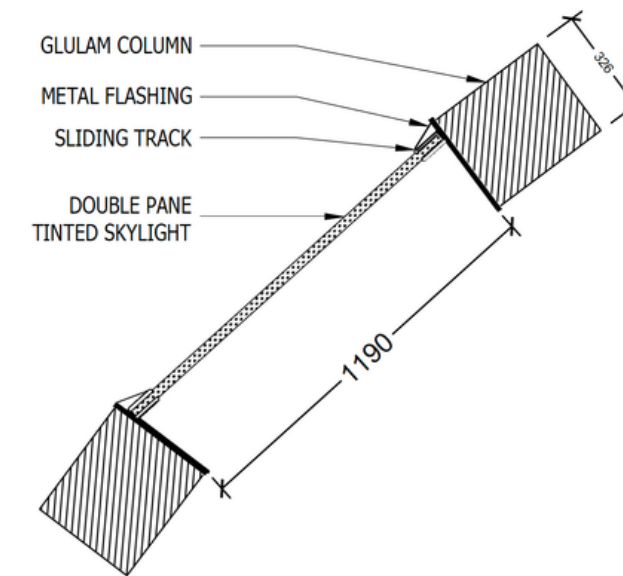
CONNECTION DETAILS



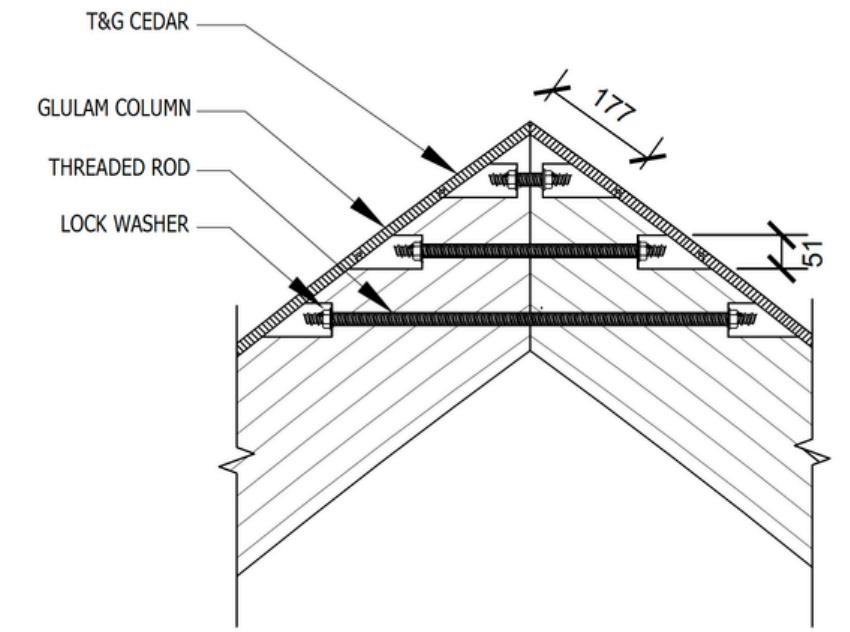
FOUNDATION DETAIL



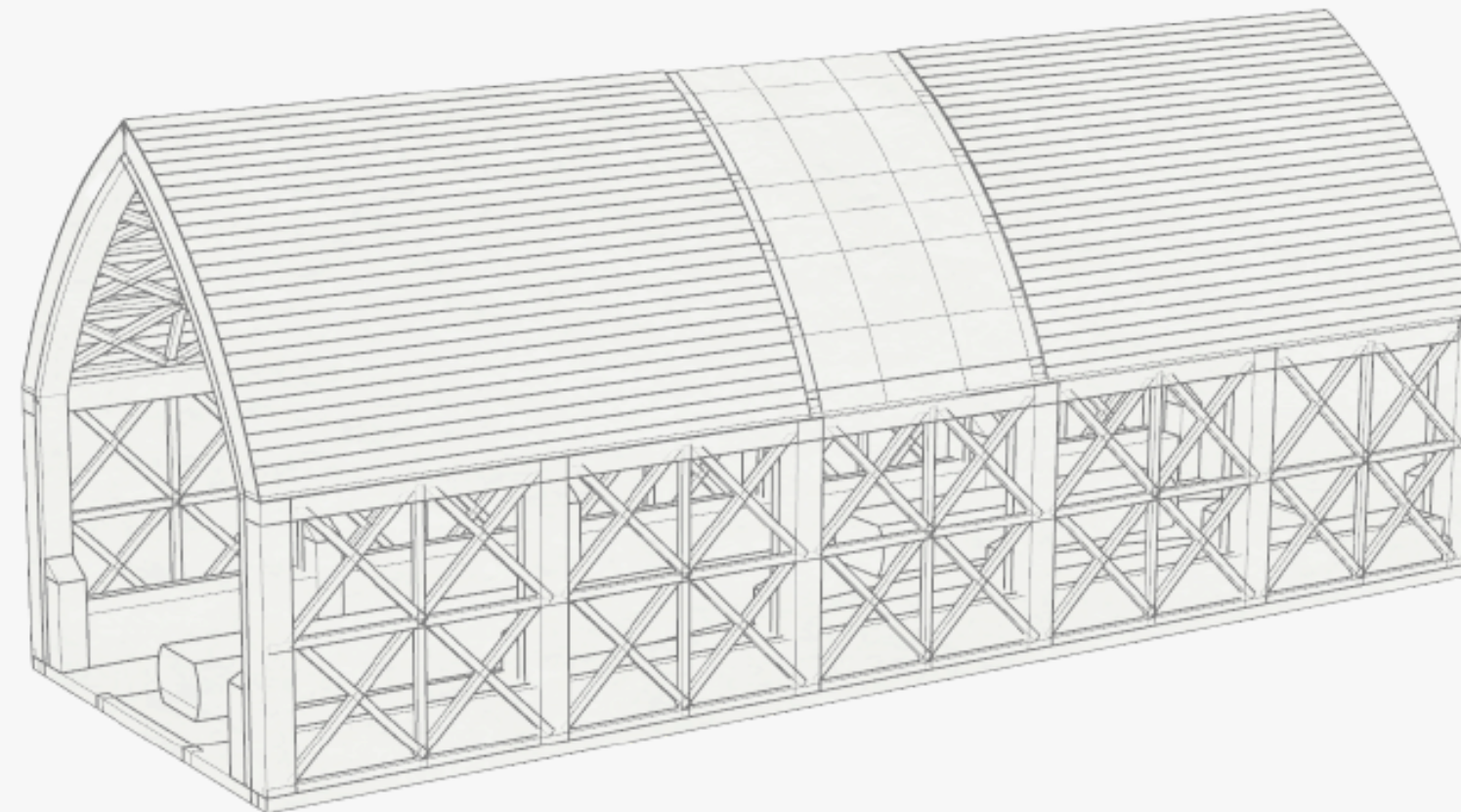
PEDESTAL DETAIL



SKYLIGHT DETAIL

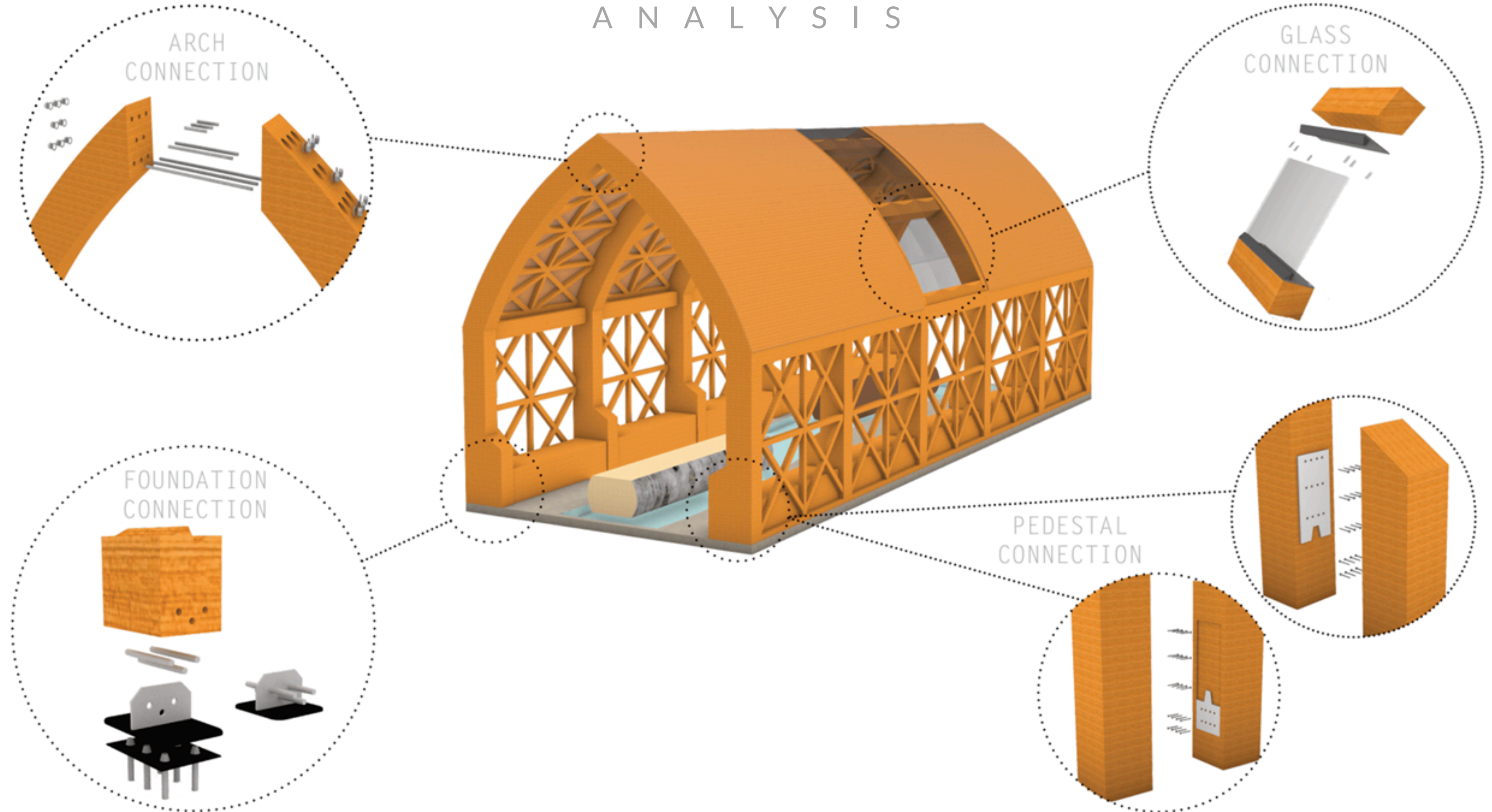


ARCH DETAIL

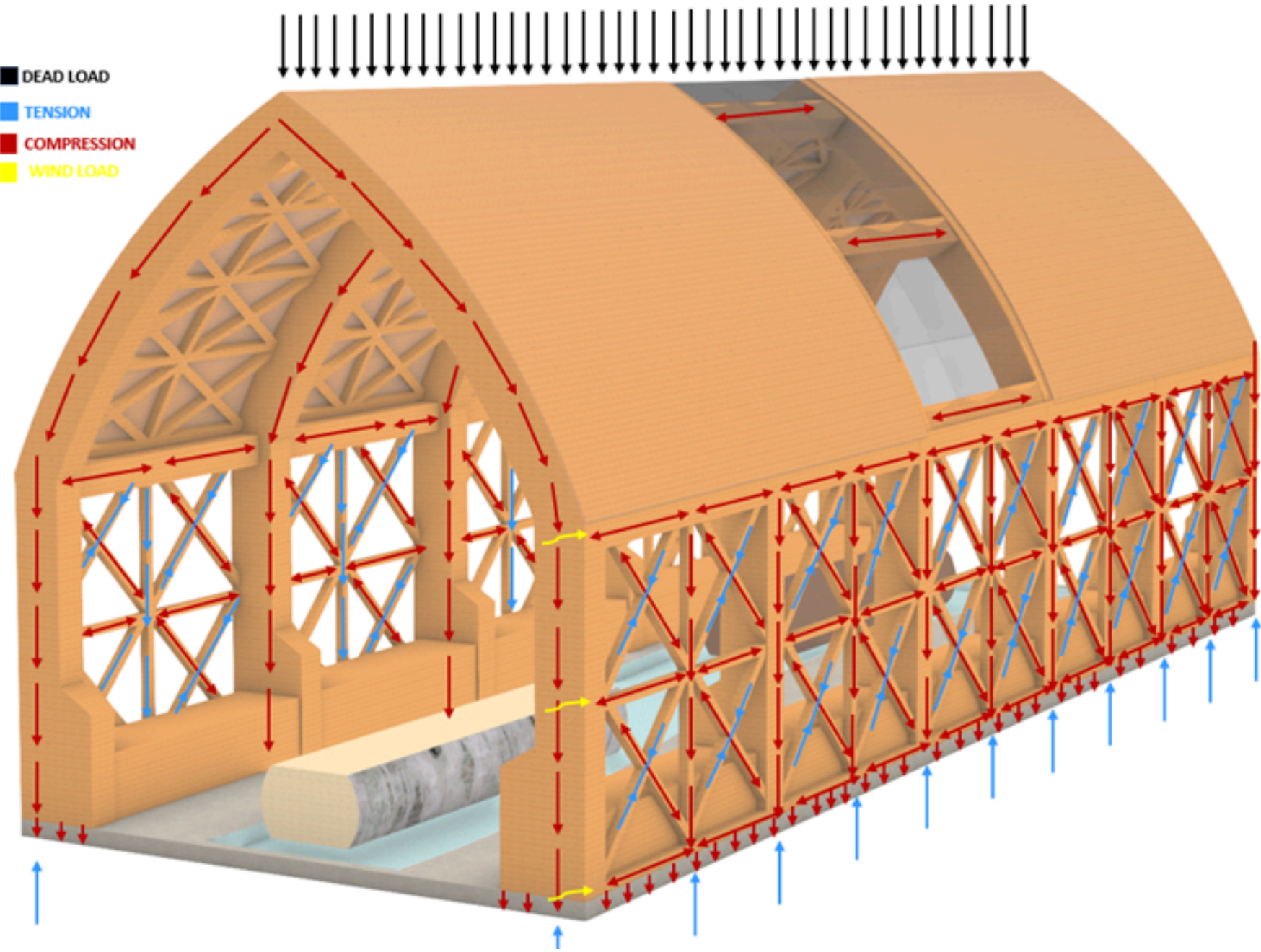


CONNECTION

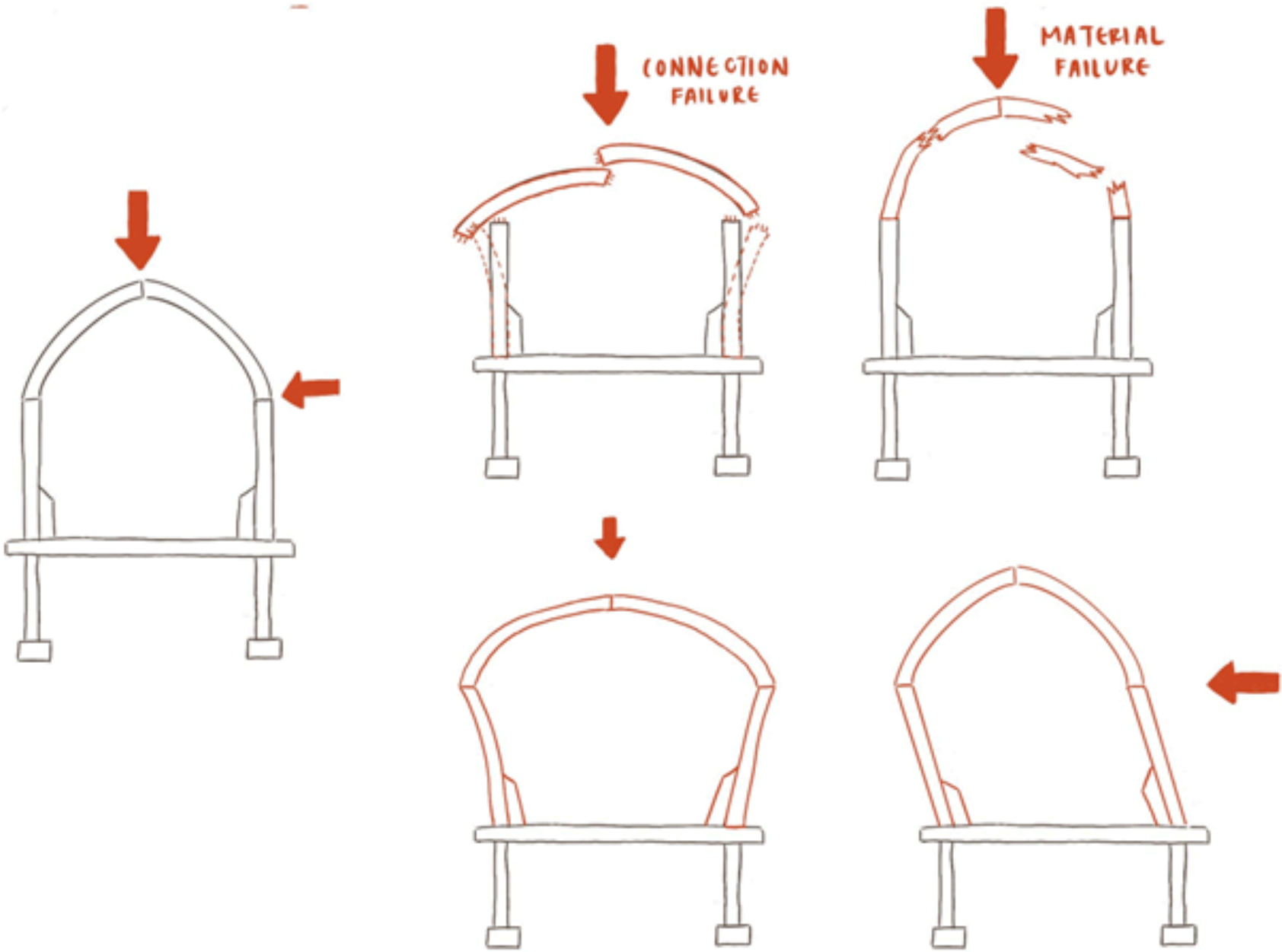
ANALYSIS



STRUCTURAL ANALYSIS



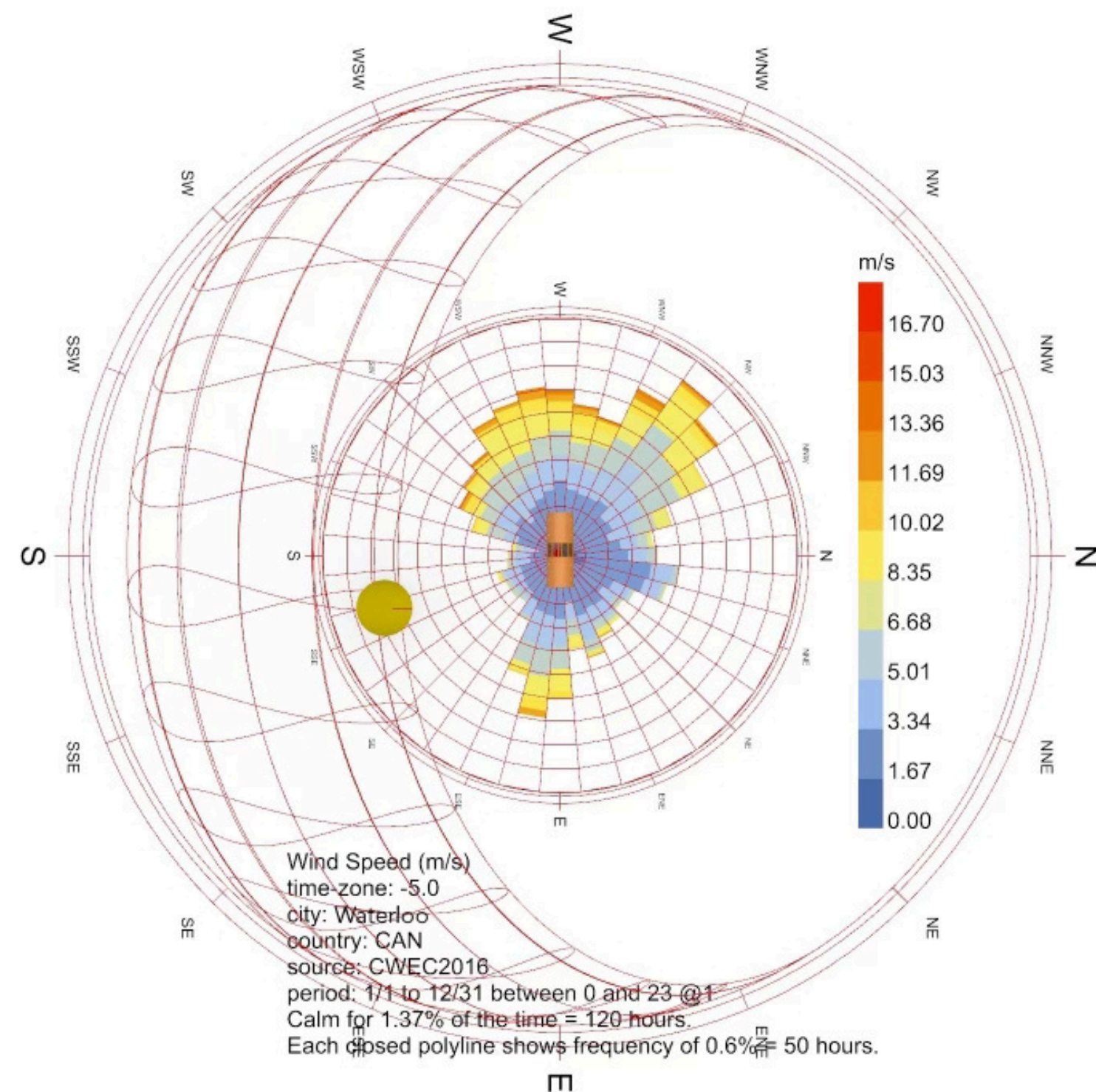
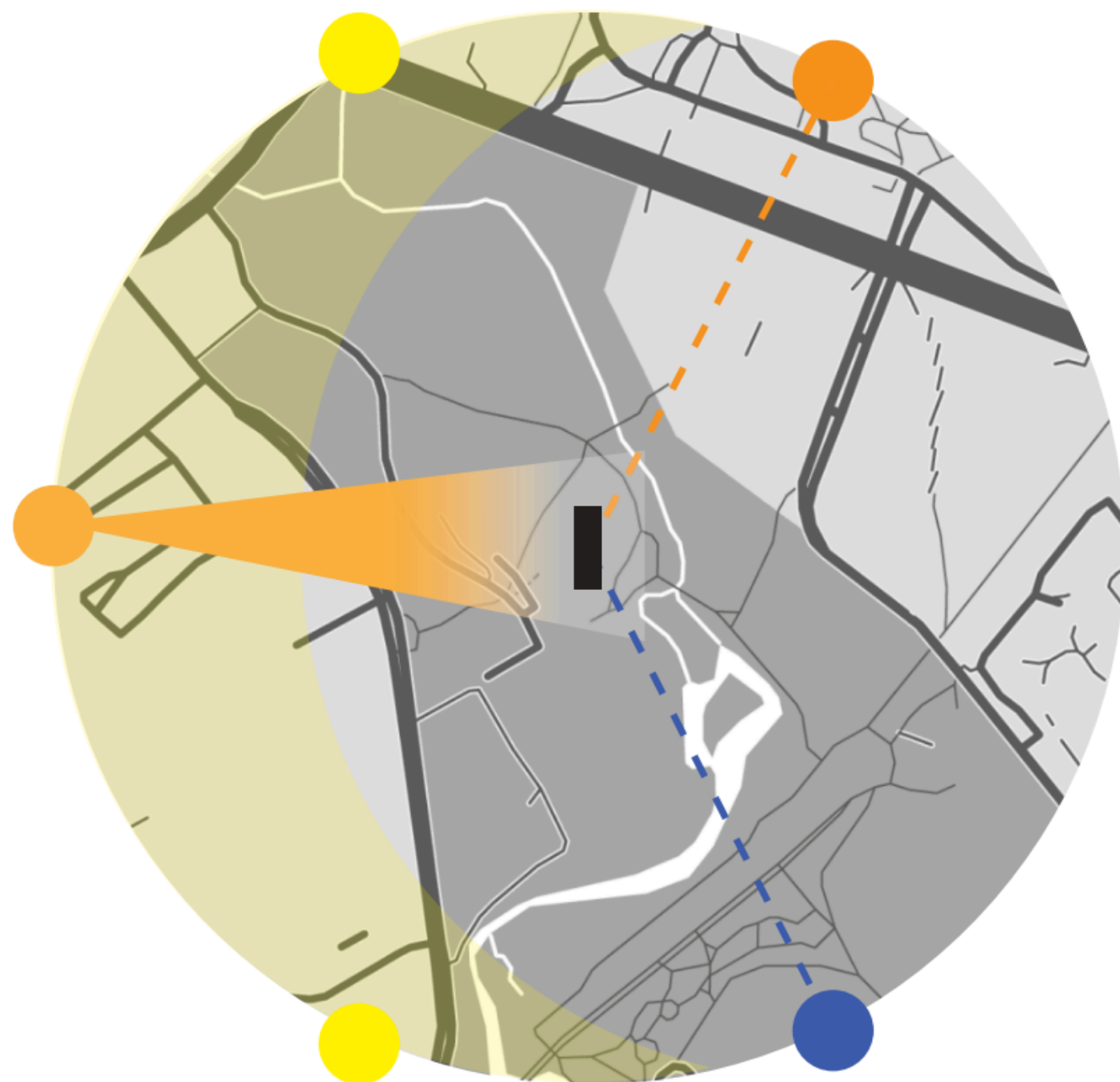
LOAD PATH



FREEHAND DIAGRAMS
(DEFLECTIONS AND PREDICTED LOADS)

WEATHER-BASED

ANALYSIS



RENDERINGS



S P R I N G (R A I N)



A U T U M N



W I N T E R

PHYSICAL MODEL

MODEL STATS

7

HOURS LASER CUTTING

1:20

SCALE MODEL

MATERIALS

- BIRCHBARK
- 5/8 INCH CEDAR
- 1/8 INCH HDF
- 1/16 INCH BASSWOOD



— T H A N K Y O U F O R Y O U R A T T E N T I O N —



SOURCES

- <https://archello.com/story/3465/attachments/photos-videos/2>
- <https://www.welcometosheffield.co.uk/content/attractions/sheffield-winter-garden/>
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