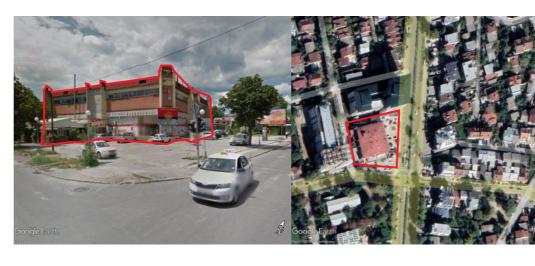
Abstract

The purpose of this unique structure is to create an inviting and vibrant atmosphere for people to gather and socialize. The design is inspired by the form of a tree, emerging from the ground and growing tall to provide shade and beauty to the surrounding area. Not only does it serve as a functional space for people to congregate, but it also enhances the aesthetic of the location. The structure is designed to be a natural gathering spot and a source of inspiration and joy for those who visit. The tree-like design adds a touch of nature and elegance to the area, making it a destination for both locals and visitors alike. Overall, this structure not only serves a practical purpose but it also adds a sense of charm and liveliness to the space.

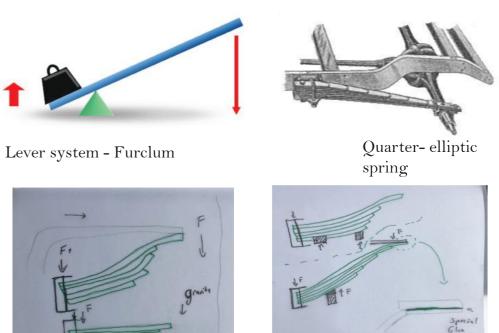


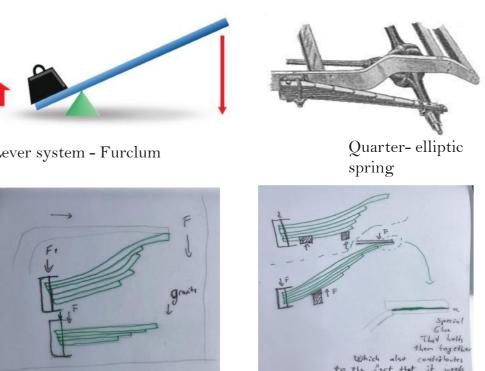
Information about the Structure

The structure is designed to resemble a tree, with the shape and form of an orchid flower on top. The primary materials used in its construction are Laminated Veneer Lumber (LVL), which is known for its strength and durability and is commonly used in residential and commercial building projects as structural members such as lintels, beams, mid-floors, and roofs. The structure also incorporates pressure-treated lumber, plywood, and iron rods to provide added strength and stability. The majority of the structure is held together using strong adhesive, but also has a concrete footing and steel components that help to support its weight. This combination of materials ensures that the structure is not only visually stunning, but also sturdy and built to withstand the elements and heavy use.

The structure consists of two distinct components, each with its unique purpose. The main component is a curved column that serves as both a structural support and a cantilever. The second component is designed to provide additional support to the cantilever, ensuring the stability and safety of the overall structure. Together, these two parts create a cohesive and functional design that is both visually striking and structurally sound. The curved column and cantilever provide an interesting dynamic to the structure, while the supporting component adds to the overall stability and functionality of the design. We will use the Quarter-elliptic spring method which is used in old car suspensions.

The structure is designed with a foundation that includes a steel attachment to keep the wooden planks securely in place. However, simply using the foundation as a downforce would not be sufficient to sustain the load of the cantilever. To ensure the stability and safety of the overall structure, a steel component is placed under the wooden planks near the foundation to act as a fulcrum. This creates a lever system, with the foundation as the weight and the steel component as the fulcrum, that effectively holds up the cantilever and enables the structure to withstand the load. This combination of the foundation and the steel component as fulcrum creates a robust structure that is able to sustain the load of the cantilever and guarantees the stability and safety of the overall design.



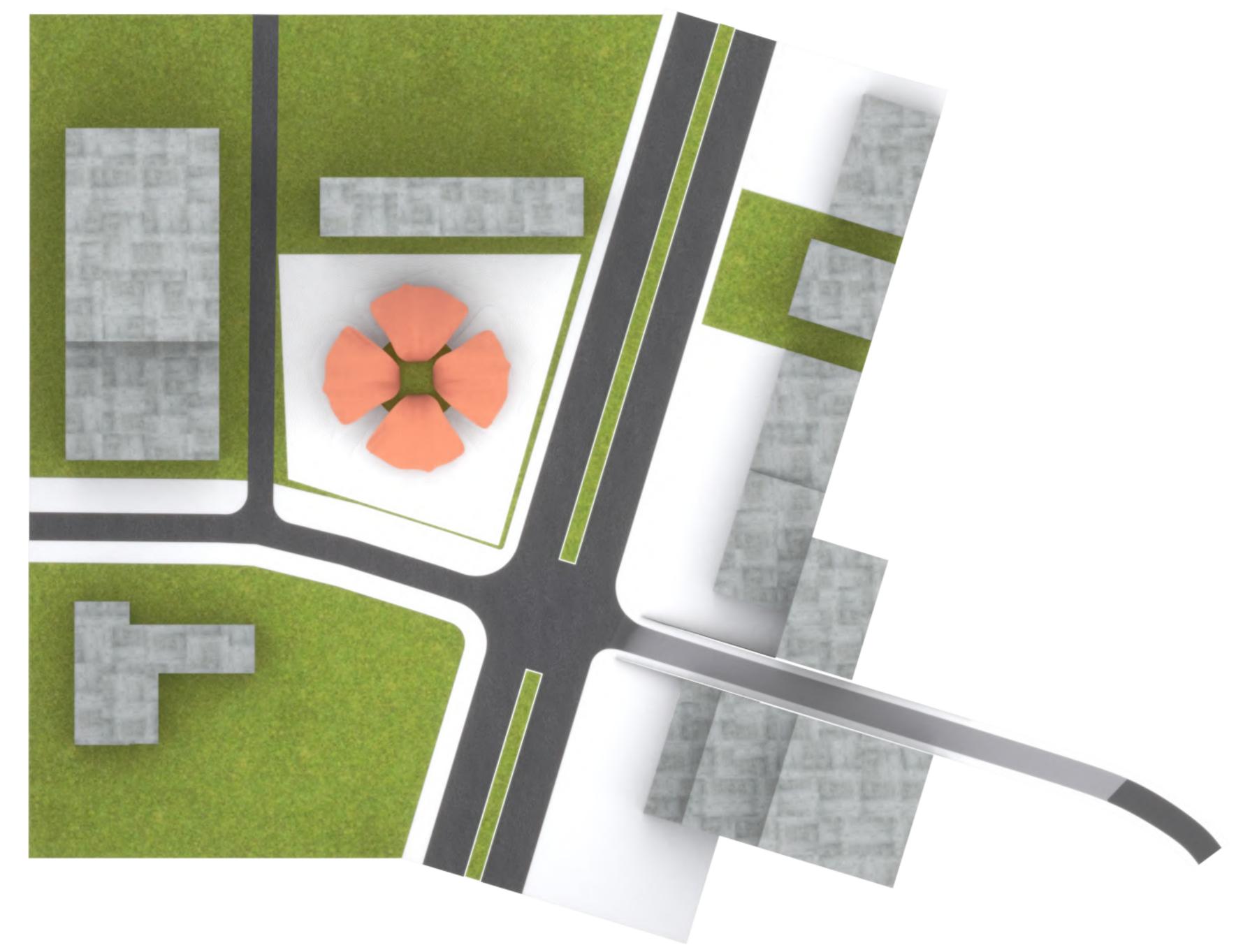


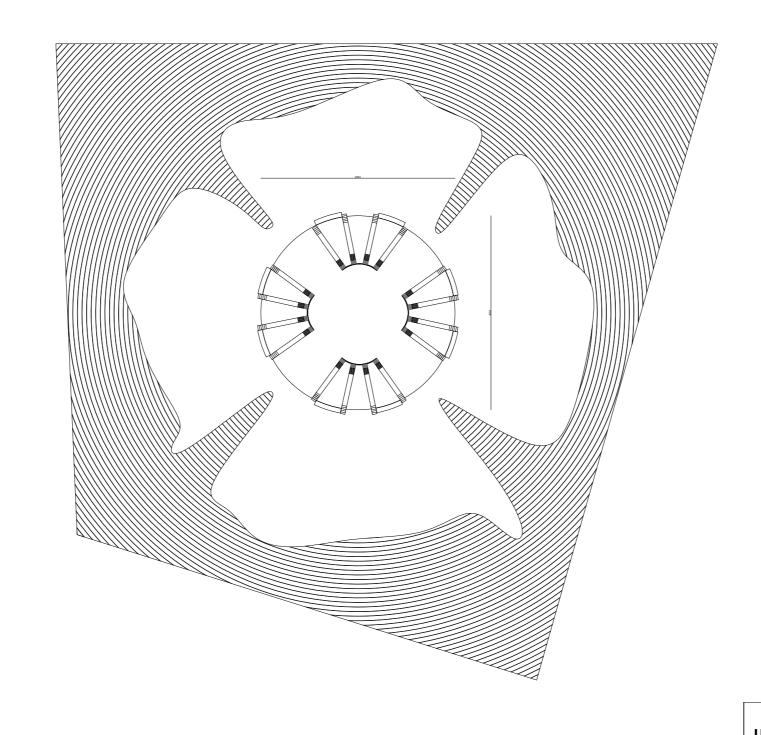


Location

This structure is situated in Butel-2, a location that once served as a bustling hub of activity, housing a supermarket and a popular restaurant. However, over time the area has become abandoned and now serves primarily as a parking lot. As a result, the community has lost a beloved gathering spot and children no longer frequent the area as they once did. The new structure aims to revitalize the area and bring back the sense of community and socialization that it once had. By providing a new gathering spot that is both functional and beautiful, this structure aims to breathe new life into the Butel-2 community and make it once again a destination for locals and visitors alike.

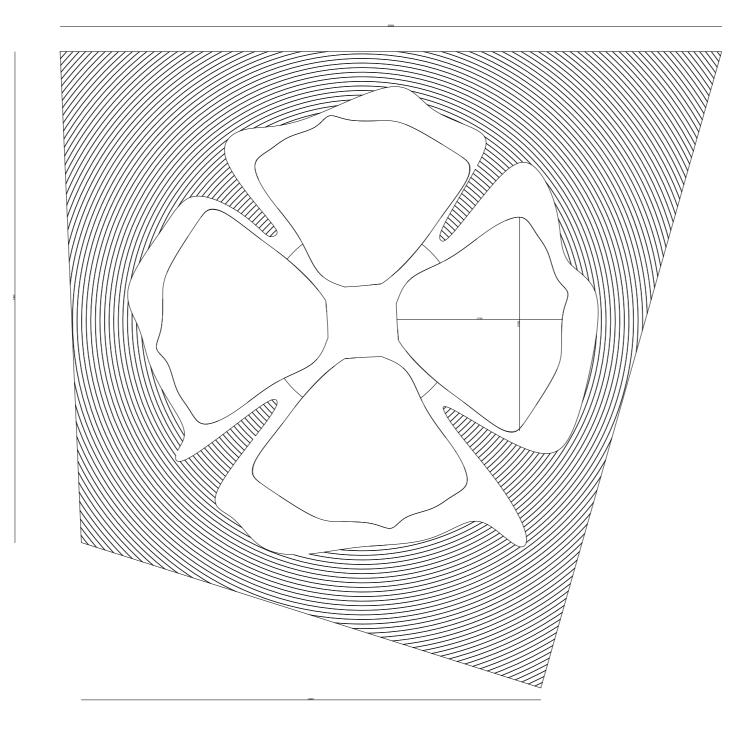
Struttural Information





Cours

Course Name	Architectural Structures	
Project Name	Architectural structures	Scale: 1:400
Plan Name	Top view of Plan	
Professor Name	Dr. Prof. Marija Miloshevska Janakieska	D 1 01 01 0000
Student:	Eldin Fazliu	Date: 24.01.2023

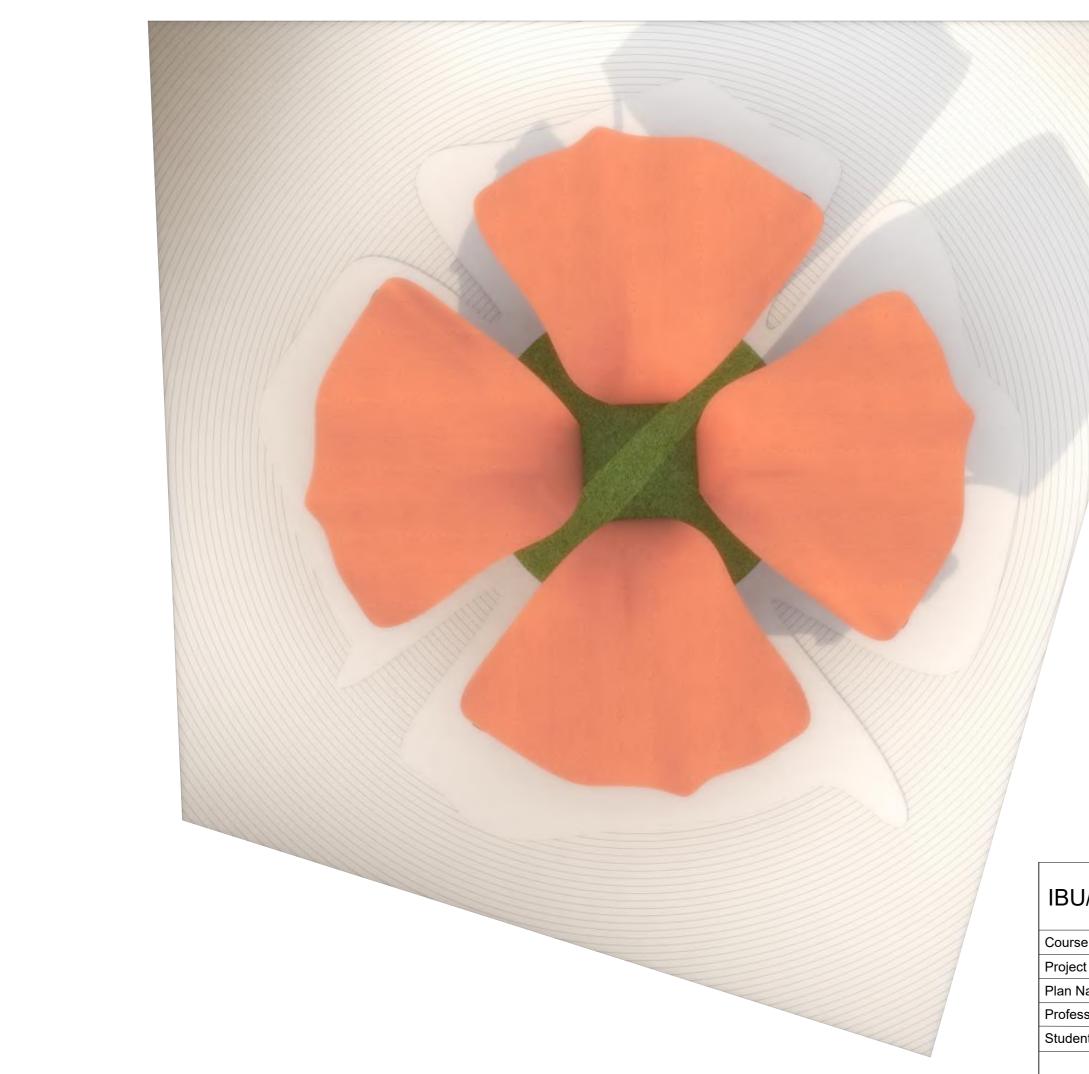


Course

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se Name	Architectural Structures		
ect Name	Architectural structures	Scale: 1:400	
Name	Top view		
essor Name	Dr. Prof. Marija Miloshevska Janakieska	D 1 04 04 0000	
ent:	Eldin Fazliu	Date: 24.01.2023	



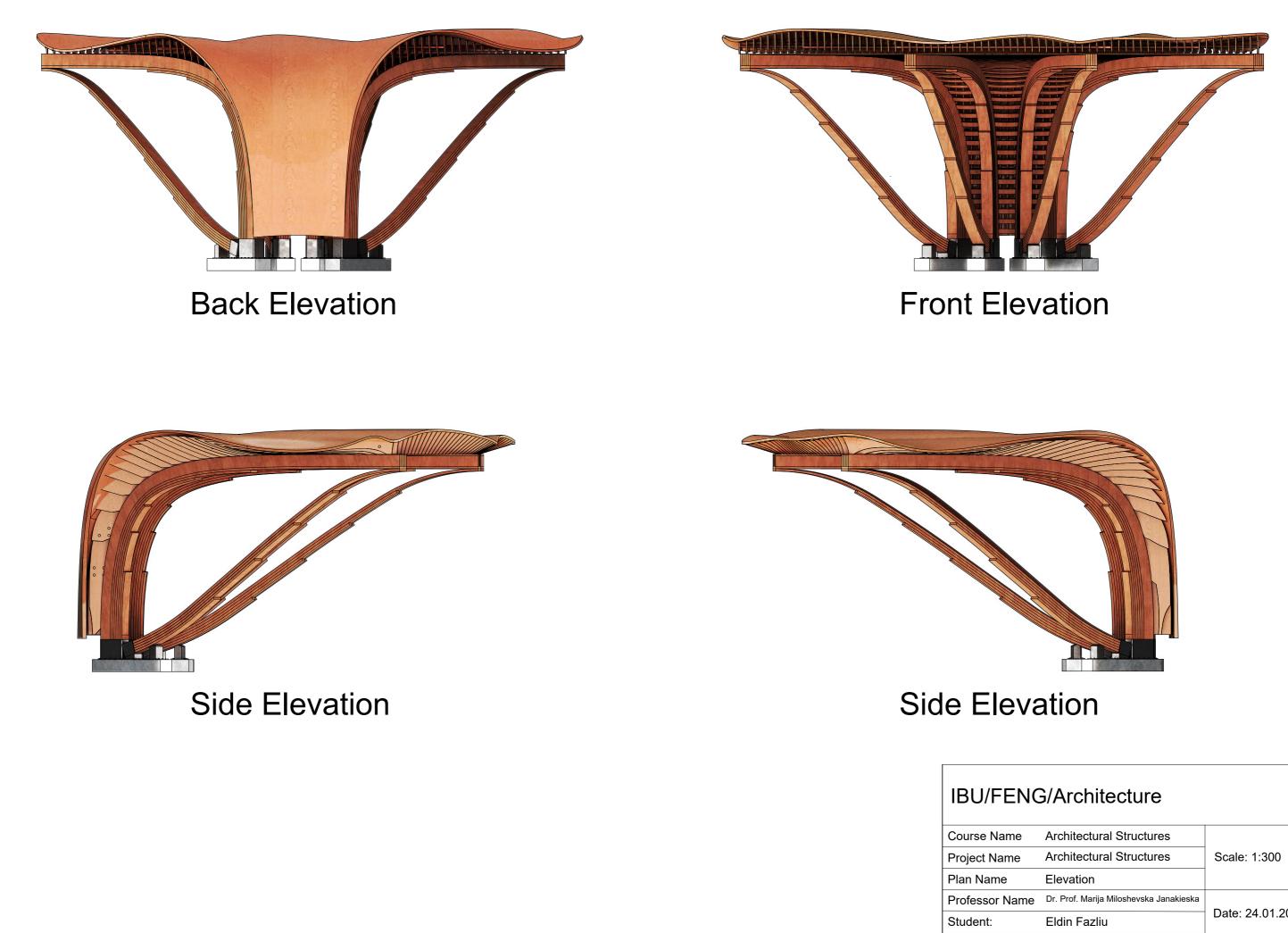
se Name	Architectural Structures		
ect Name	Architectural Structures	Scale: 1:400	
Name	Top View		
essor Name	Dr. Prof. Marija Miloshevska Janakieska	D.t. 04.04.0000	
ent:	Eldin Fazliu	Date: 24.01.2023	



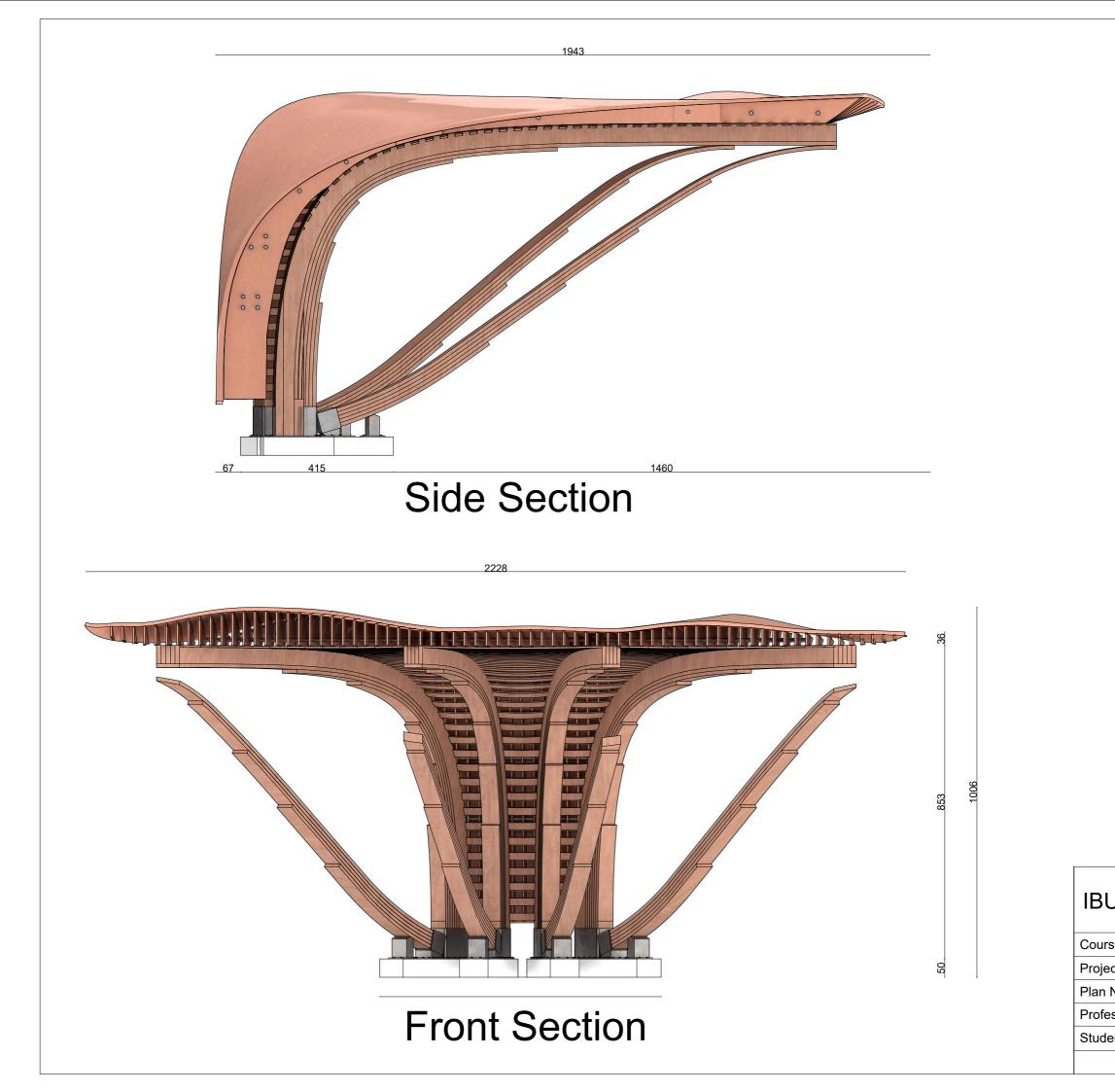
se Name	Architectural Structures		
ect Name	Architectural Structures	Scale: 1:300	
Name	Axonometric View		
essor Name	Dr. Prof. Marija Miloshevska Janakieska	D 1 04 04 0000	
ent:	Eldin Fazliu	Date: 24.01.2023	



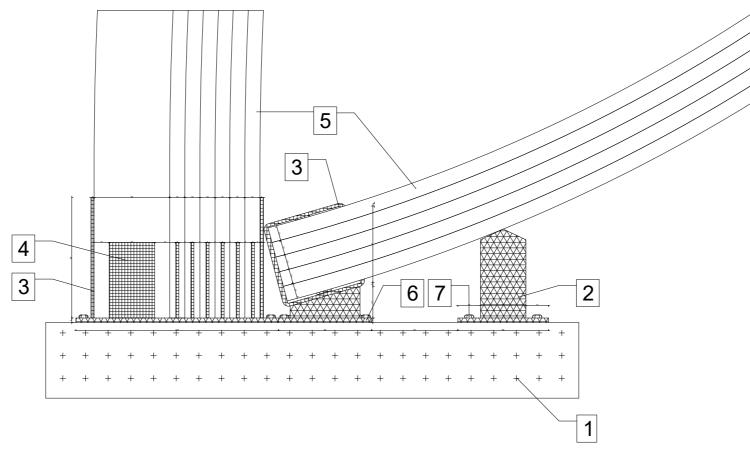
se Name	Architectural Structures		
ect Name	Architectural Structures	Scale: 1:300	
Name	Elevation of the Structure		
essor Name	Dr. Prof. Marija Miloshevska Janakieska	D 1 04 04 0000	
ent:	Eldin Fazliu	Date: 24.01.2023	



se Name	Architectural Structures		
ct Name	Architectural Structures	Scale: 1:300	
Name	Elevation		
essor Name	Dr. Prof. Marija Miloshevska Janakieska	D 1 01 01 0000	
ent:	Eldin Fazliu	Date: 24.01.2023	



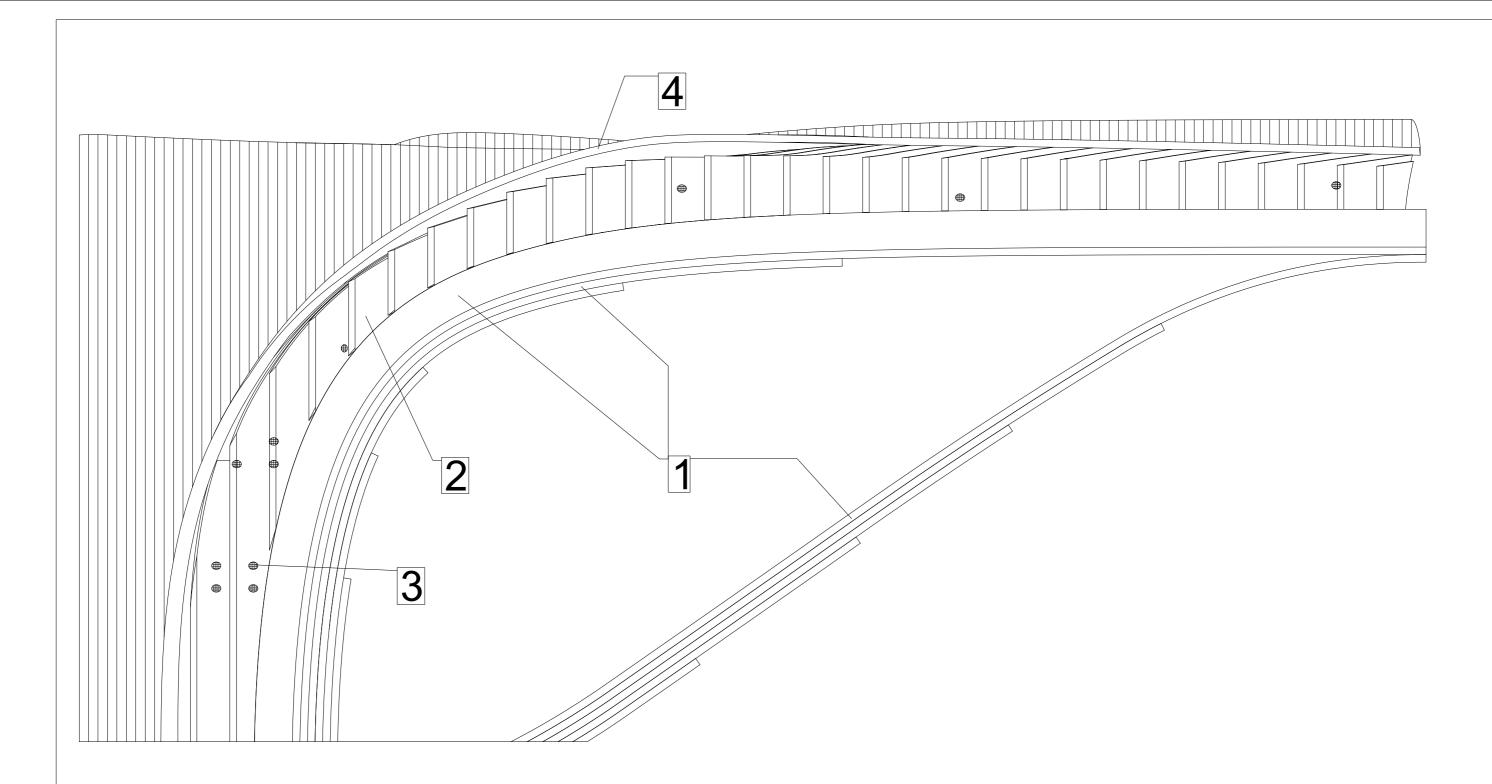
se Name	Architectural Structures		
ect Name	Architectural Structures	Scale: 1:100	
Name	Front Section & Side Section		
essor Name	Dr. Prof. Marija Miloshevska Janakieska	D 1 04 04 0000	
ent:	Eldin Fazliu	Date: 24.01.2023	



- 1. Concrete Footing
- 2. Furclum
- 3. Steel
- **4.Steel Reinforcment**
- 5.Laminated Veener Lumber (LVL)
- 6.Steel Plate
- 7.Bolts

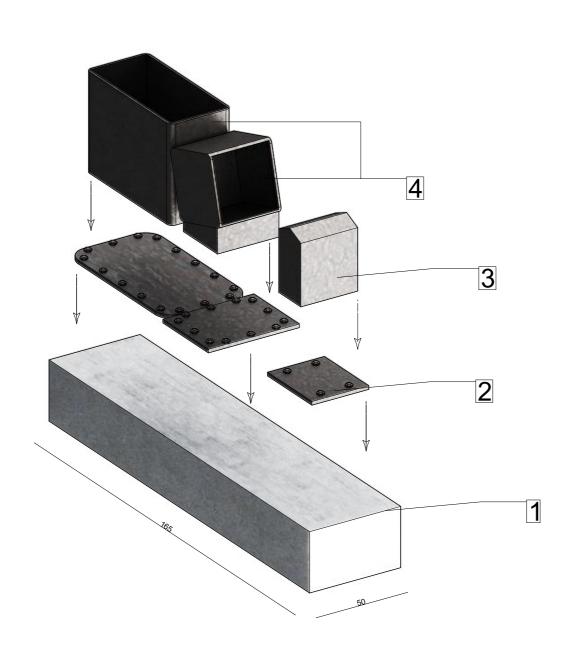


Course Name	Architectural Structures	
Project Name	Architectural Structures	Scale: 1:25
Plan Name	Footing Detail	
Professor Name	Dr. Prof. Marija Miloshevska Janakieska	D ()) () () () () () () () ()
Student:	Eldin Fazliu	Date: 24.01.2023



- 1. Laminated Veener Lumber (LVL)
- 2. Pressure Treated Lumber (PT)
- 3. Iron Rods
- 4.Plywood

Course Name	Architectural Structures	
Project Name	Architectural Structures	Scale: 1:50
Plan Name	Structure Detail	
Professor Name	Dr. Prof. Marija Miloshevska Janakieska	D / 0/0/0000
Student:	Eldin Fazliu	Date: 24.01.2023



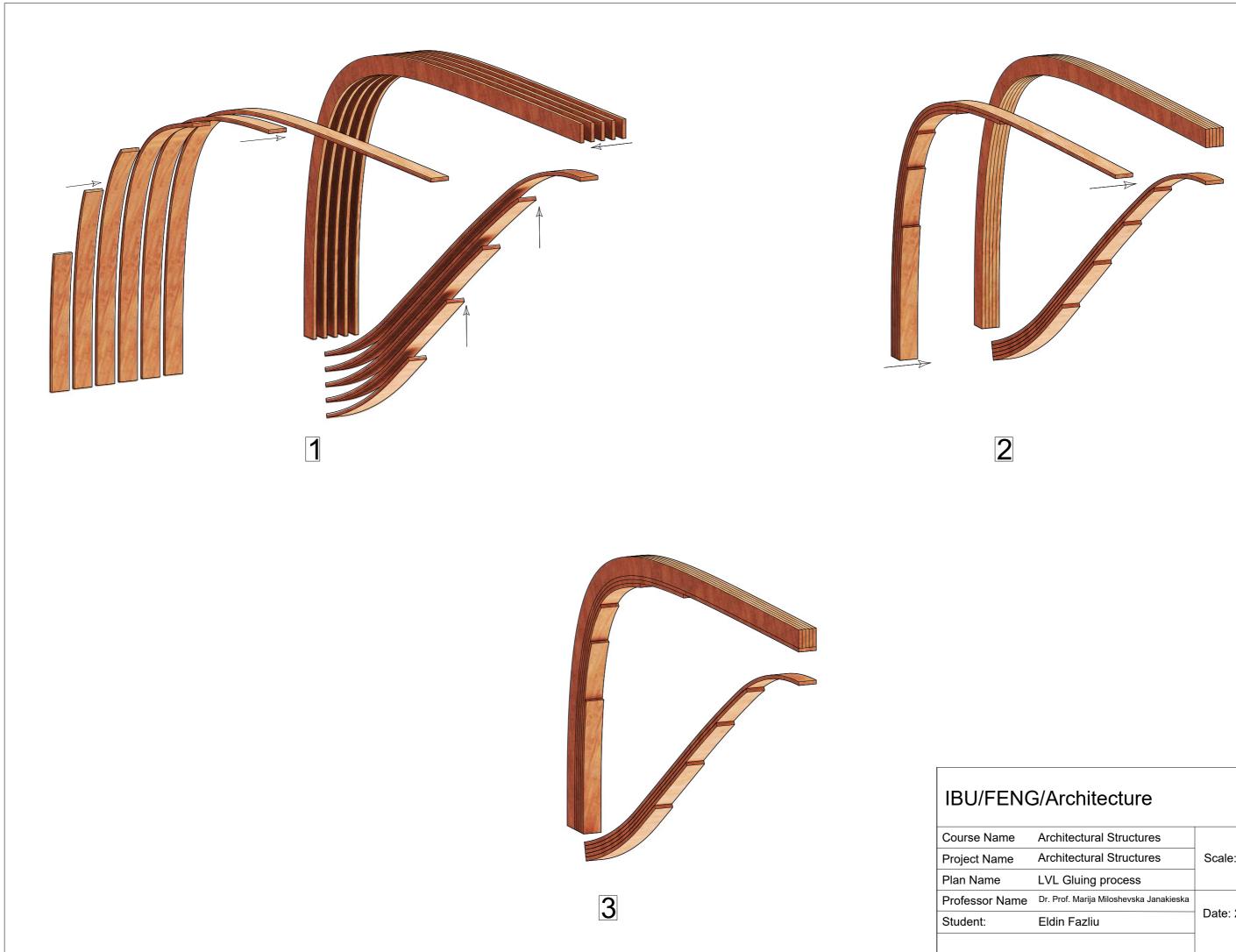


1.Concrete Footing 2.Steel Plate 3.Furclum 4.Steel

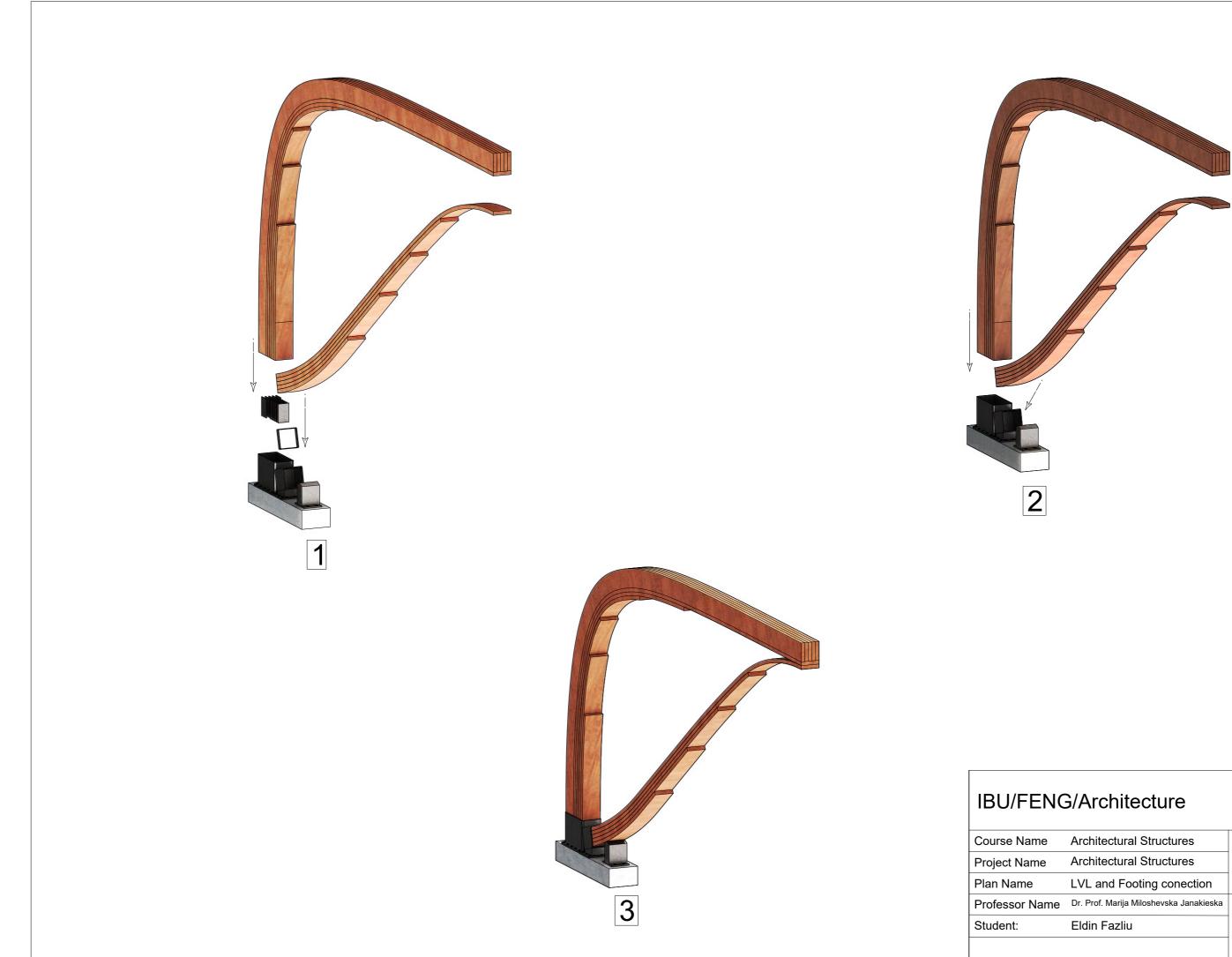
Cours Projec Plan I

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se Name	Architectural Structures	
ect Name	Architectural Structures	Scale: 1:100
Name	Footing Detail Process	
essor Name	Dr. Prof. Marija Miloshevska Janakieska	D 1 01 01 0000
ent:	Eldin Fazliu	Date: 24.01.2023



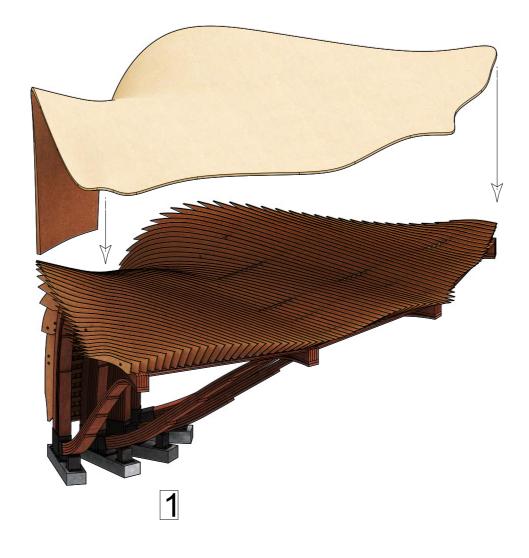
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Name	LVL Gluing process		
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ent:	Eldin Fazliu	Date: 24.01.2023	

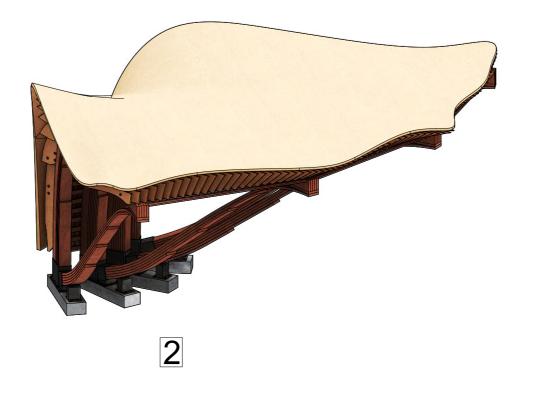


se Name	Architectural Structures		
ect Name	Architectural Structures	Scale: 1:400	
Name	LVL and Footing conection		
essor Name	Dr. Prof. Marija Miloshevska Janakieska	D 1 04 04 0000	
ent:	Eldin Fazliu	Date: 24.01.2023	

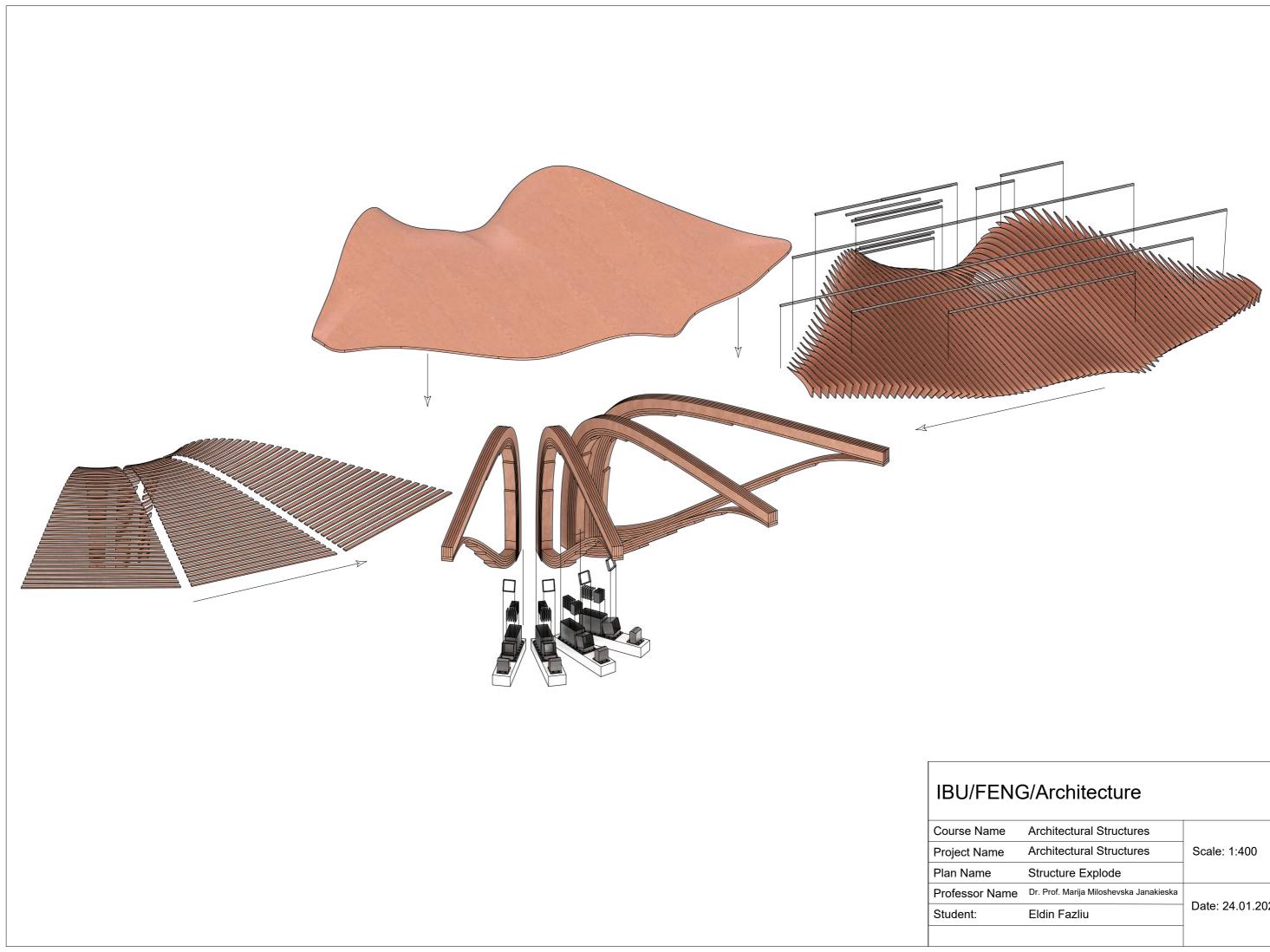


se Name	Architectural Structures		
ct Name	Architectural Structures	Scale: 1:400	
Name	Structure building process		
ssor Name	Dr. Prof. Marija Miloshevska Janakieska	Date: 24.01.2023	
ent:	Eldin Fazliu		

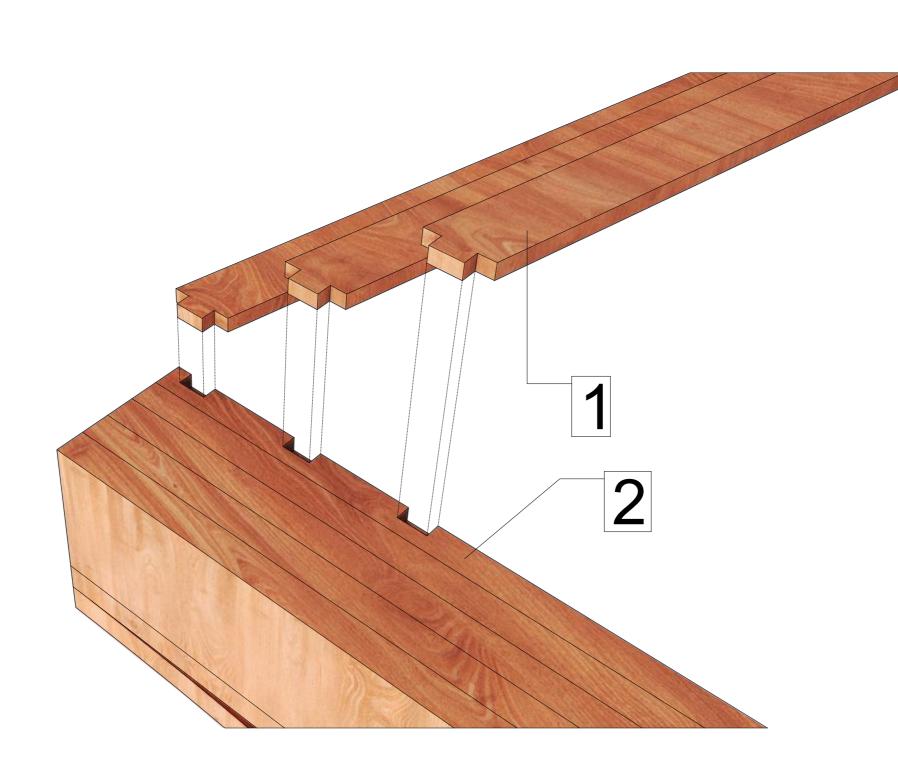




Course Name	Architectural Structures		
Project Name	Architectural Structures	Scale: 1:400	
Plan Name	Structure building process		
Professor Name	Dr. Prof. Marija Miloshevska Janakieska	D / 0/0/0000	
Student:	Eldin Fazliu	Date: 24.01.2023	

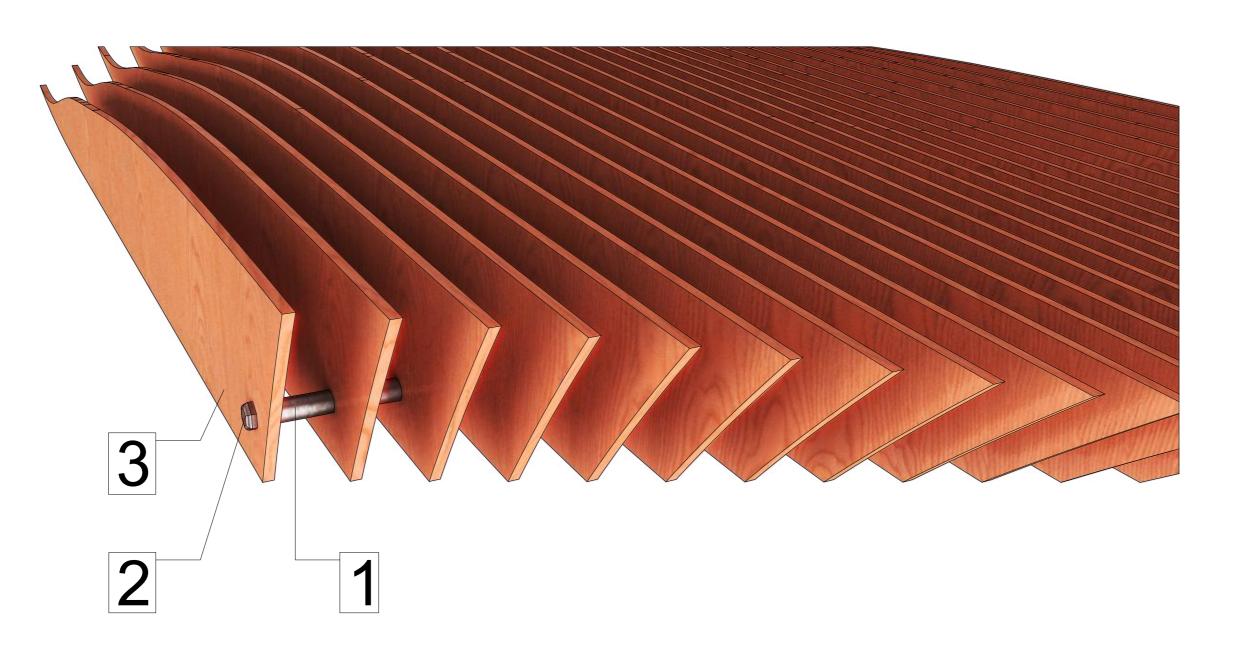


se Name	Architectural Structures		
ect Name	Architectural Structures	Scale: 1:400	
Name	Structure Explode		
essor Name	Dr. Prof. Marija Miloshevska Janakieska	Date: 24.01.2023	
ent:	Eldin Fazliu		



1.Laminated Veener Lumber (LVL) 2.Pressure Treated Lumber (PT)

Course Name	Architectural Structures		
Project Name	Architectural Structures	Scale: 1:25	
Plan Name	Detail		
Professor Name	Dr. Prof. Marija Miloshevska Janakieska	D 1 01 01 0000	
Student:	Eldin Fazliu	Date: 24.01.2023	



1.Iron Rod 2.Nut 3. Pressure Treated Lumber (PT)

Cours Projec Plan I Profes

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se Name	Architectural Structures		
ect Name	Architectural Structures	Scale: 1:25	
Name	Detail		
essor Name	Dr. Prof. Marija Miloshevska Janakieska	Date: 24.01.2023	
ent:	Eldin Fazliu		



