

NII JUINTI

Samuel Bravo,
Sandra Iturriaga

Ucayali, Perú, 2014



Nii Juinti is a home and school oriented towards the teaching of the traditional medicine of the *Shipibo* people based on the use of native plants. The school is located in the Ucayali River's basin, in the Peruvian Amazon, in an area characterized by the precariousness of resources, in contrast to an abundant nature.

An architecture studio developed years ago –which set out to build a modest modular roof structure to host a stop-by shelter, typical of these rainy areas– allowed to anticipate some of the premises in the work: a shelter to protect from the sun and the rain, capable of giving place to the acts with the greatest constructive lightness possible. This resulted in a constructive system that was easy to assemble and disassemble with local labor, but above all, a light structure that is immerse in the surrounding landscape respecting the substantial relation between the *shipibo* people and their environment.

Hence, a cloak-like shelter was defined, typical of the local *shebón* (palm) constructions, but this time interpreted as a flexible shell, modeled by folding paper. The traditional structure –of beam and columns– becomes in this case a three dimensional fold built on a system of discrete and triangulated elements. The basic unit is built with wood pieces of 1.80 and 3.60 meters, easily harnessed in the area and whose geometry is defined by setting the distance between vertices. From this unit you can generate various spatial configurations to accommodate many different programs. The whole structure contributes to the generation of a light cover, which remains a subject to the climate's intensity and the usual obsolescence of the jungle.

The proposed system is gradually adopted as a part of local practices, removing traditional deep-rooted techniques, and incorporating adjustments and adaptations of a new kind of craft. **ARQ**



Arquitectos / Architects
Samuel Bravo, Sandra Iturriaga

Ubicación / Location
Ucayali, Amazonas, Perú

Encargo / Commission
Asociación Nii Juinti

Construcción / Construction
Amador Sánchez, Alejandro Sánchez

Fecha proyecto / Date of Project
Noviembre 2013 a febrero 2014 / November 2013 – February 2014

Fecha construcción / Date of construction
Febrero a diciembre 2014 / February - December 2014

Materiales / Materials

Estructura en base a módulo triangulado compuesto de piezas de madera quinilla manilkara bidentata de 3.60 m y 1.80 m de largo; ensamblaje de piezas de madera por medio de pernos de 5/16 x 5"; cubierta en hojas de palma sebón; revestimiento interior de placas madera; ventanas y puertas en malla mosquitero / Wood structure based on triangulated modules composed of quinilla manilkara bidentata parts of 3.60 m and of 1.80 m long; assembling pieces of wood with 5/16 x 5" bolts; cover on sebon palm leaves; lining of wooden plates; windows and doors made out of mesh mosquito net

Superficie construida / Built area

745 m²

Superficie terreno / Plot area

32.400 m²

Presupuesto / Cost

US\$ 120 / m²

SAMUEL BRAVO SILVA

Architect, Pontificia Universidad Católica de Chile, 2009. He has taught at the School of Architecture at the UC, Chile. His work has been published in ARQ, CA, Landscape World Magazine and Casabella.

SANDRA ITURRIAGA DEL CAMPO

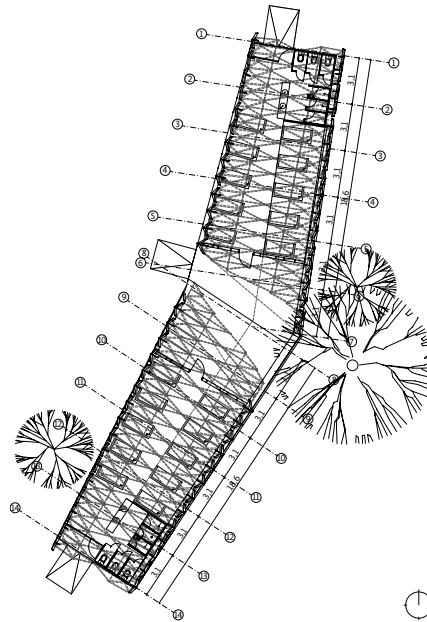
Architect, Pontificia Universidad Católica de Chile, 1993; Master of Architecture, Universidad Politécnica de Cataluña, 2000. Professor and researcher at the School of Architecture at the UC, Chile. Since 2009 she leads the project "Mapocho 42K".



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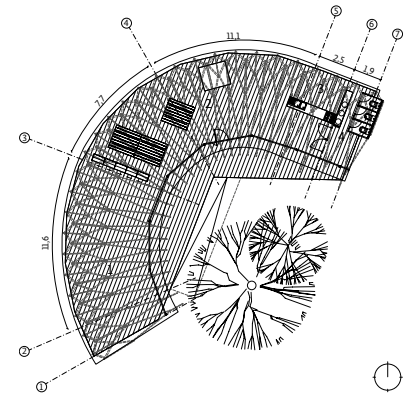
Bedrooms pavilion - plan

E. / S. 1: 500



Classroom and dining room pavilion - plan

E. / S. 1: 500

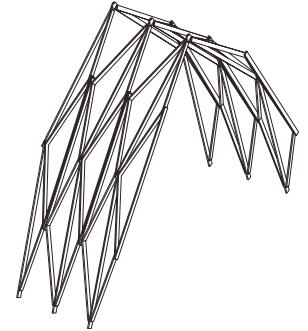
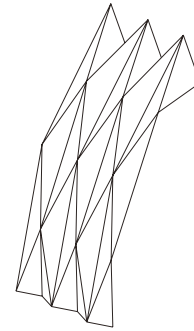
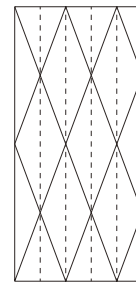


/ LEGEND

1. Sala / Classroom
2. Comedor / Dining room
3. Cocina / Kitchen
4. Baños / Bathrooms

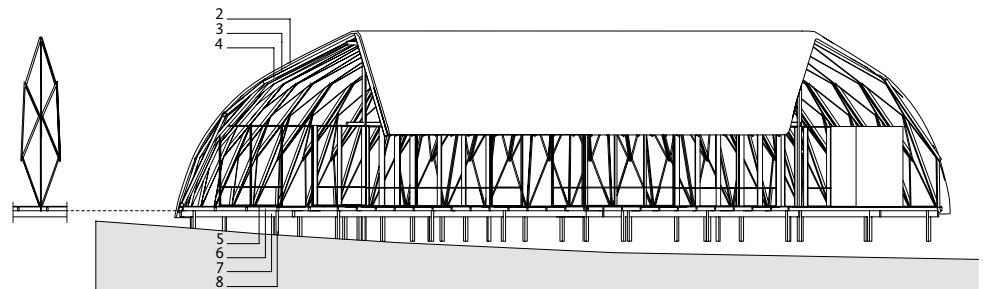
Basic structural unit

S. e. / N. s.



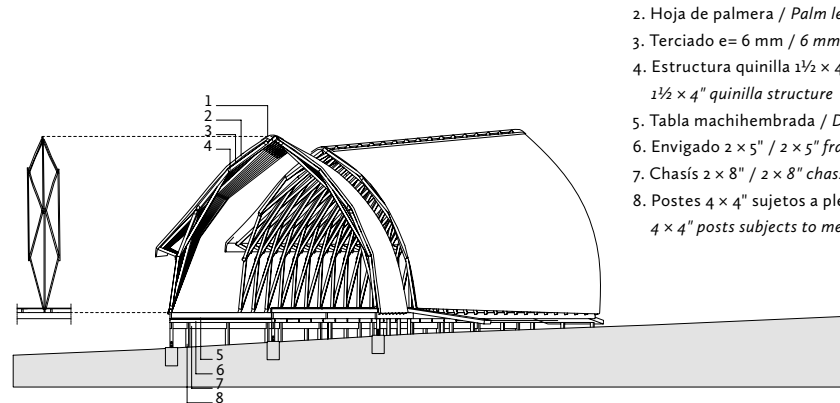
/ Classroom and dining room pavilion - section

S. e. / N. s.



/ Bedrooms pavilion - section

S. e. / N. s.



/ LEGEND

1. Cumbreira acanalada translúcida / Translucent and corrugated ridge
2. Hoja de palmera / Palm leaf
3. Terciado e= 6 mm / 6 mm plywood
4. Estructura quinilla 1 1/2 x 4" / 1 1/2 x 4" quinilla structure
5. Tabla machihembrada / Dovetail joint board
6. Envigado 2 x 5" / 2 x 5" framework of beams
7. Chasis 2 x 8" / 2 x 8" chassis
8. Postes 4 x 4" sujetos a pletina metálica / 4 x 4" posts subjects to metal gusset