PORTFOLIO 2026

alejandro flores

Design Technology Junior Architect

BIM · REVIT · HERITAGE · BIOCLIMATIC DESIGN
UNIVERSITY OF COSTA RICA



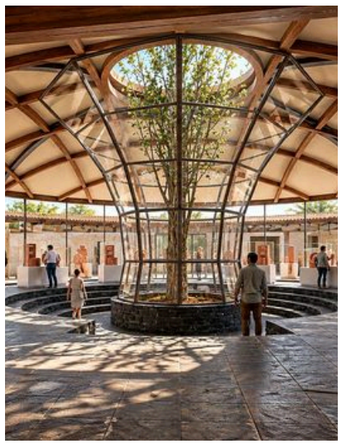
CONTENTS

Five projects. Ten minutes. Let's go.

I know you're busy, so here's the deal: every project tells you **what I did** and **with whom**, then shows renders, drawings and the final board. Strongest work first.

03 About me · skills · CV

27 Let's talk



01

MUCEAC

Museum and heritage complex · 2025

ACADEMIC · INTERNATIONAL STUDIO

Co-designed with Mariam Castro Cruz: master plan, museum, parametric Revit families and the 19-sheet set. I presented and defended it at USAC, Guatemala, for UCR.

p. 04



02

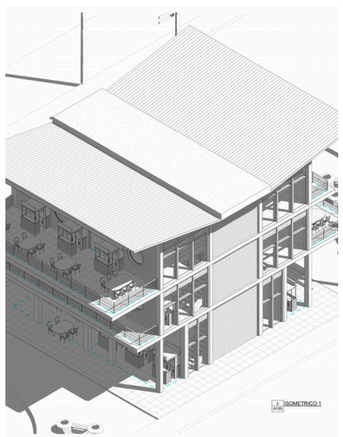
Campo Verde Fair Center

Fairground and transit hub · 2026

ACADEMIC · FINAL STUDIO

Solo project: site strategy, master plan, laminated-timber structure, rainwater systems and the full Revit set.

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03

BIM Gastrocenter

Full-cycle BIM integration · 2024-2025

PROFESSIONAL CERTIFICATION · AUTODESK

Solo BIM lead: architecture, structure and MEP in Revit 2026, Dynamo, Navisworks clashes and 4D, ACC.

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04

El Andén Food Hall

Food hall on a former rail line · 2025

ACADEMIC

Solo project: program, structure and timber envelope in SketchUp, drawings and photoreal views in D5.

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05

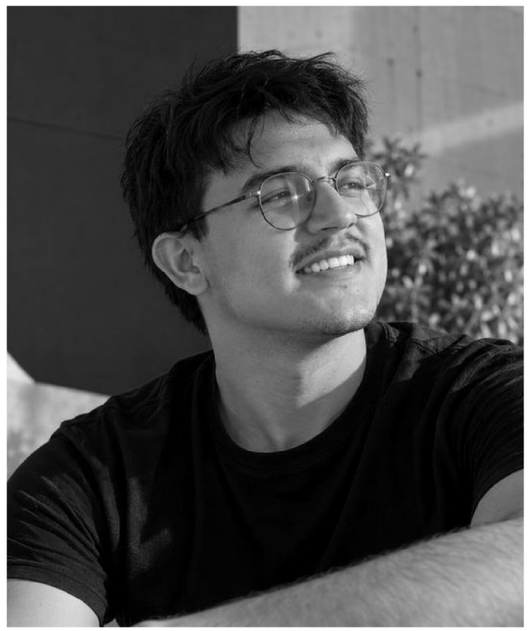
Trifolio Labs

Bioclimatic research hub · 2024

ACADEMIC · JACQUES ROUGERIE FOUNDATION

Co-designed with Sofía Villalobos Gómez: climate diagnosis, resilient master plan, lab modules and DIALux studies.

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CONTACT

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Instagram @afg.arq

LANGUAGES

Spanish (native) · English C1 · Portuguese (basic)

ABOUT ME

A bit about me

Final-year architecture student at the University of Costa Rica, on an academic excellence scholarship (GPA 9.22). **I'm the person who makes the model talk:** BIM as an information-driven way to deliver coordinated, buildable projects, with a soft spot for climate and for the people who'll use the space.

EXPERIENCE

2026 – now — **Professional practice · Collaborative Architecture, UCR**
Civic center and site design with the ADI and community of Guácimo, Limón. Team of five, six months.

2024 – now — **Independent architect · Freelance**
House and site design in Surubres de Parrita, Puntarenas.

2024 – 2025 — **BIM integration · LCI Veritas / Autodesk**
Full-cycle BIM of a three-level building: Revit 2026, Dynamo, Navisworks, ACC.

2022 – 2024 — **Lead graphic & web designer · Soluciones 15**
Branding and UI/UX; communications for the UCR Architecture Students' Association.

VOLUNTEERING & EXHIBITIONS

Jul 2026 — **PLEA 2026 · 38th PLEA Conference, UCR**
Volunteer, photographer and coordinator. Welcomed speakers such as Bruno Stagno and presented in English on Rhino, Grasshopper, Ladybug and Honeybee.

2026 — **MUCEAC exhibitor · USAC, Guatemala**
Presented and defended the project at the University of San Carlos, representing UCR.

EDUCATION

2021 – now — **B.Arch, University of Costa Rica**
Excellence scholarship · GPA 9.22

2024 – 2025 — **Revit BIM Management (84 h)**
LCI Veritas · Autodesk ATC

2022 – 2024 — **Web & graphic design**
Instituto Tecnológico de Costa Rica

CERTIFICATES & RECOGNITION

AUTODESK — Revit Arch · MEP · Structure

Universidad LCI Veritas — BIM Management 84 h

Project Management Institute. — Agile PM (Scrum)

toeic — English C1

Microsoft 365

MUCEAC recognition

SOFTWARE I USE DAILY

Revit · Dynamo · Navisworks · ACC · AutoCAD · SketchUp

Rhino · Grasshopper · Ladybug · Honeybee · ClimateStudio · DIALux

D5 Render · Twinmotion · Rayon · Claude · Midjourney

01

MUCEAC

Museum and heritage complex

Developed through an international collaboration between UCR, USAC and the CNPAG within the Latin American Museum Network. MUCEAC places a museum and public-use complex inside the historic fabric of Antigua Guatemala, turning the ruins of the Recolección Convent into exhibition galleries reached by glass walkways, with honest materials inspired by volcanic fluidity. Markets, visible curation workshops and a symbolic central atrium restore the site's Franciscan identity around the bond between nature, people and God, while meeting accessibility and heritage regulations. The project received a recognition from both the University of San Carlos (USAC) and the CNPAG of Antigua Guatemala, with a certificate from each. It was exhibited in Guatemala, where I presented and defended it at USAC on behalf of UCR.

MY ROLE Co-designed with Mariam Castro Cruz: master plan, museum, parametric Revit families and the 19-sheet set. I presented and defended it at USAC, Guatemala, for UCR.

LOCATION Antigua Guatemala	YEAR 2025
STUDIO Design Studio 8, UCR + USAC	CO-AUTHOR Mariam Castro Cruz
RECOGNITION USAC and CNPAG recognition, exhibited in Guatemala	SOFTWARE Revit · Dynamo



01
A museum set inside the ruins of La Recolección, connected by glass walkways

02
International studio between UCR, USAC and CNPAG, under heritage regulations

03
I presented and defended it at USAC in Guatemala, representing UCR

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02 · RENDERS

Volcanic stone, timber and warm light inside the ruins of La Recolección.



Central hall with oculus and tree



Glass walkway into the ruins



Exhibition hall



Artisan market



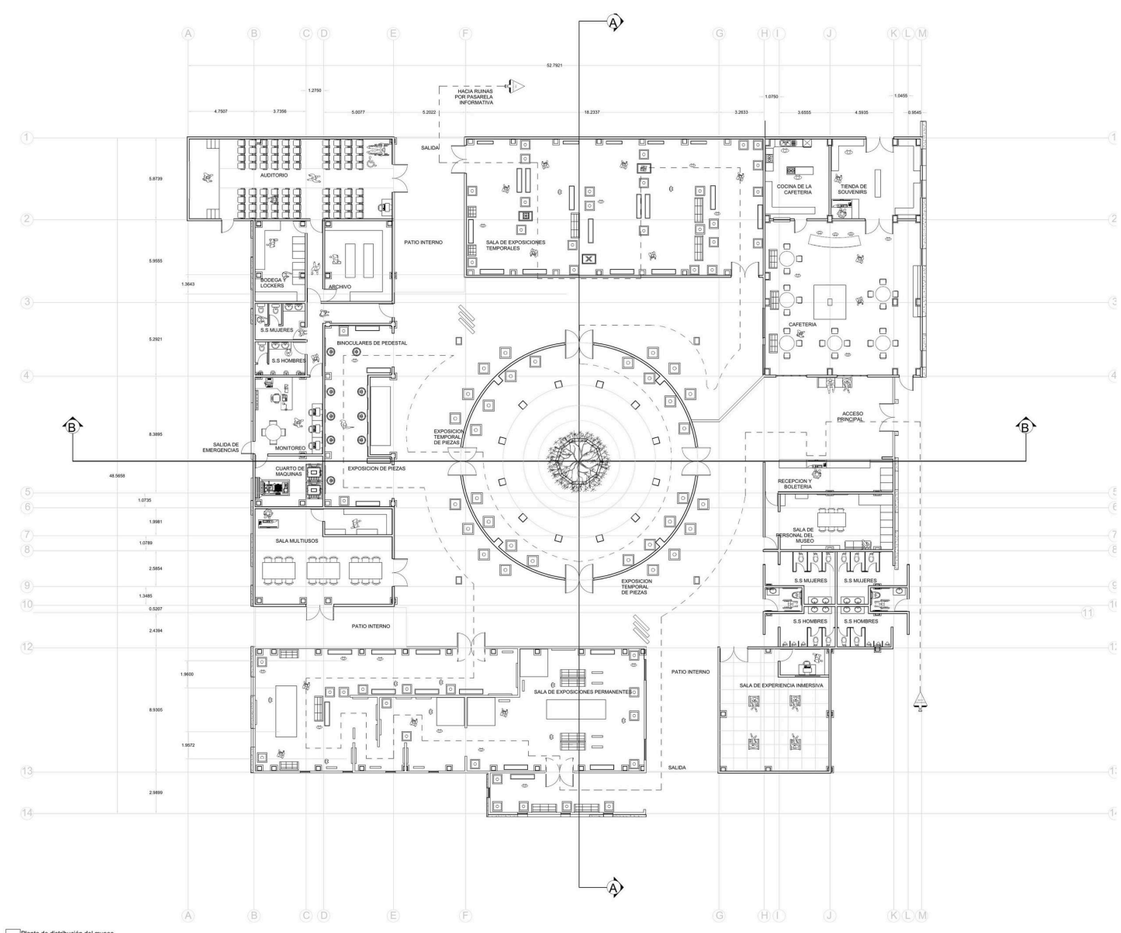
Café

03 · DRAWINGS 1/2

Museum, warehouses and market organized around the convent ruins.



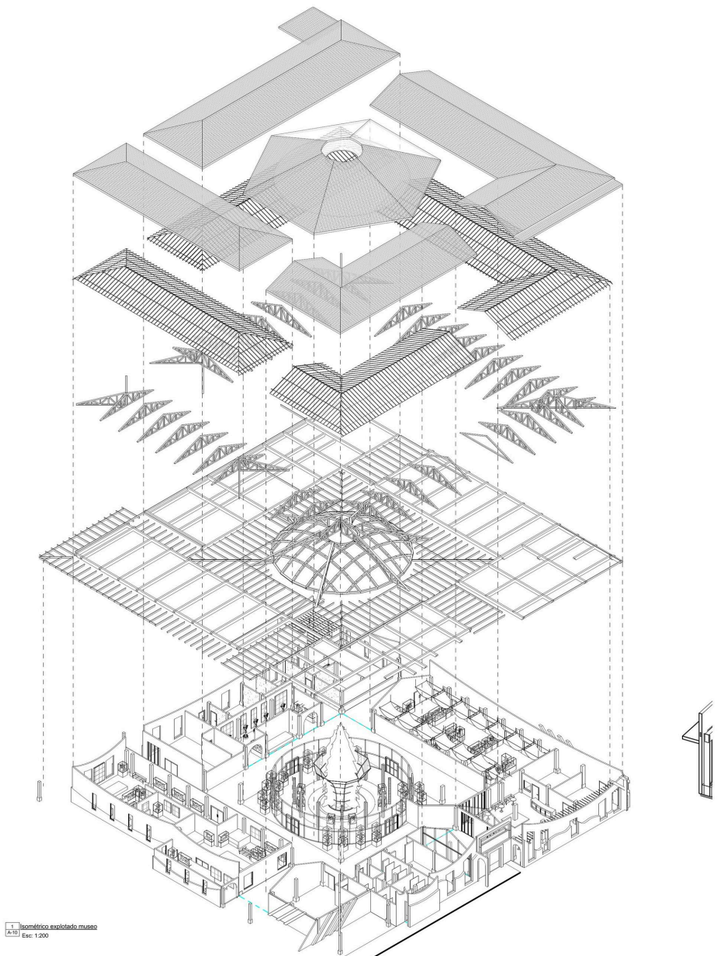
Site plan



Museum floor plan

03 · DRAWINGS 2/2 + FINAL BOARD

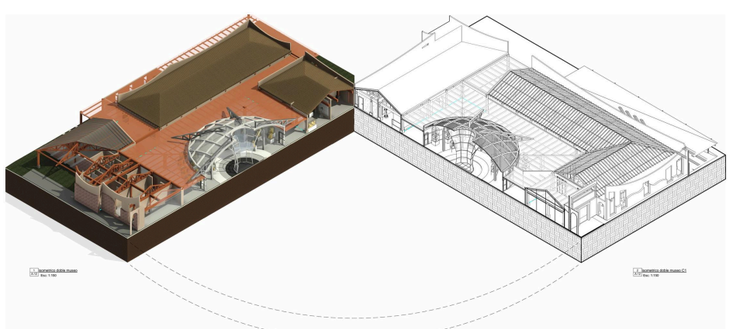
Sections, structure layer by layer, and the board I defended at USAC.



Exploded axonometric



Cross sections



Rendered and line axonometrics



Exhibition board · USAC, Guatemala 2026

02

Campo Verde Fair Center

Fairground and transit hub

An urban and architectural scheme for a fairground that also works as a transit hub on Calle Lagunilla, Montecillos. The concept comes from the petatillo, the traditional Costa Rican woven pattern, scaled up to the city: a structure that filters light and lets air and water move through, giving shade without closing the space in. Laminated-timber façades, a warm pergola and a floor grid repeat the same rhythm at every scale, while a retention lagoon, rainwater collectors and landscape buffers deal with heat, runoff and odors. AI tools supported the modeling: Midjourney for early image studies and Claude to organize and speed up the workflow.

> **MY ROLE** Solo project: site strategy, master plan, laminated-timber structure, rainwater systems and the full Revit set.

LOCATION	**YEAR**
Montecillos, Alajuela, CR	2026
STUDIO	**PHASE**
Design Studio 9, UCR	Final schematic design
AUTHORSHIP	**SOFTWARE**
Individual	Revit · D5 Render · Midjourney · Claude



01
Concept taken from the petatillo, Costa Rica's traditional woven pattern, scaled up to the city

02
Laminated-timber façades and a warm pergola that filter light, air and water

03
Retention lagoon, rainwater collectors and landscape buffers against heat and runoff

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02 · RENDERS

Laminated timber filters light, air and water, like the petatillo weave.



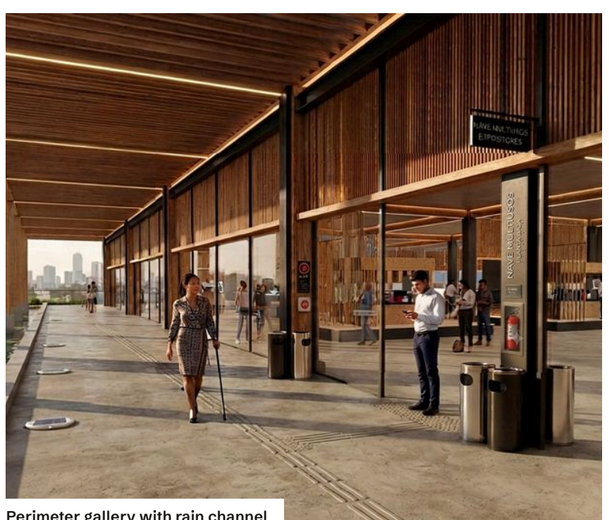
Lobby under the skylight



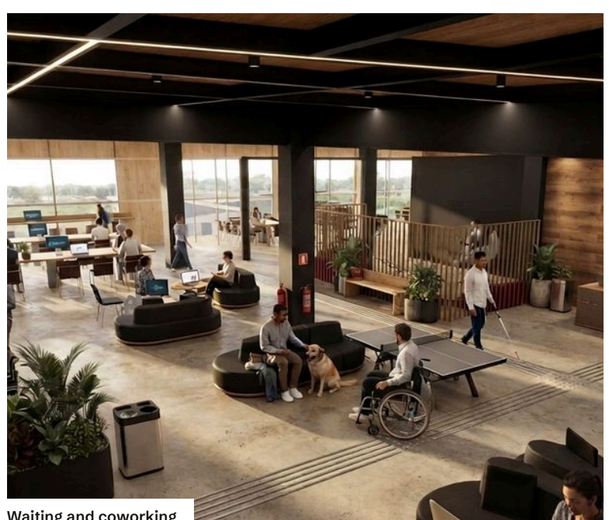
Food court with a view



Open plan from the mezzanine



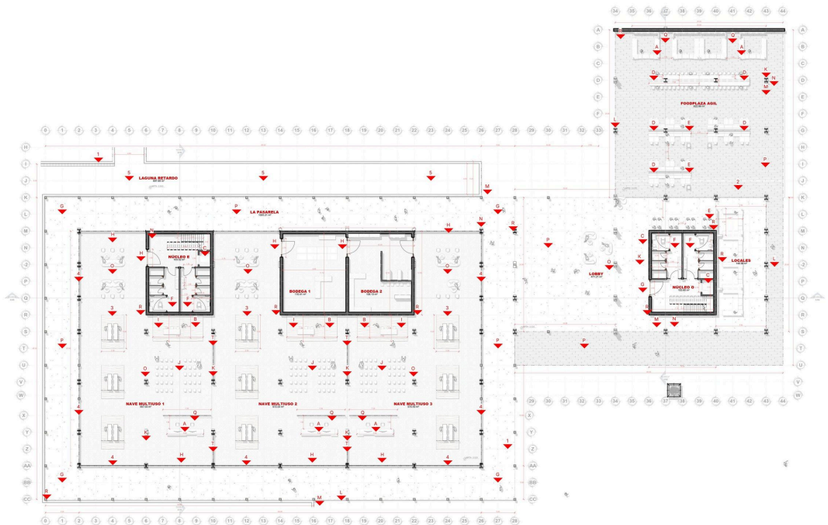
Perimeter gallery with rain channel



Waiting and coworking

03 · DRAWINGS 1/2

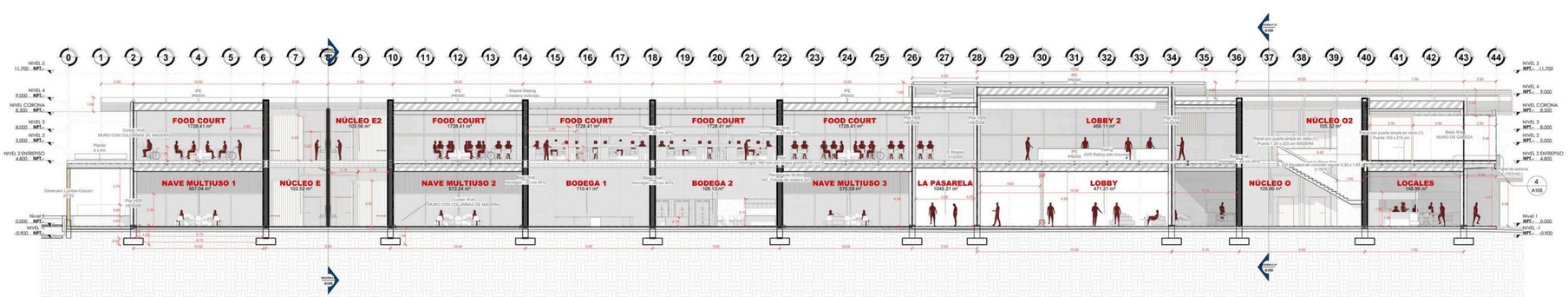
Fair halls, food court, offices and transit hub on two levels.



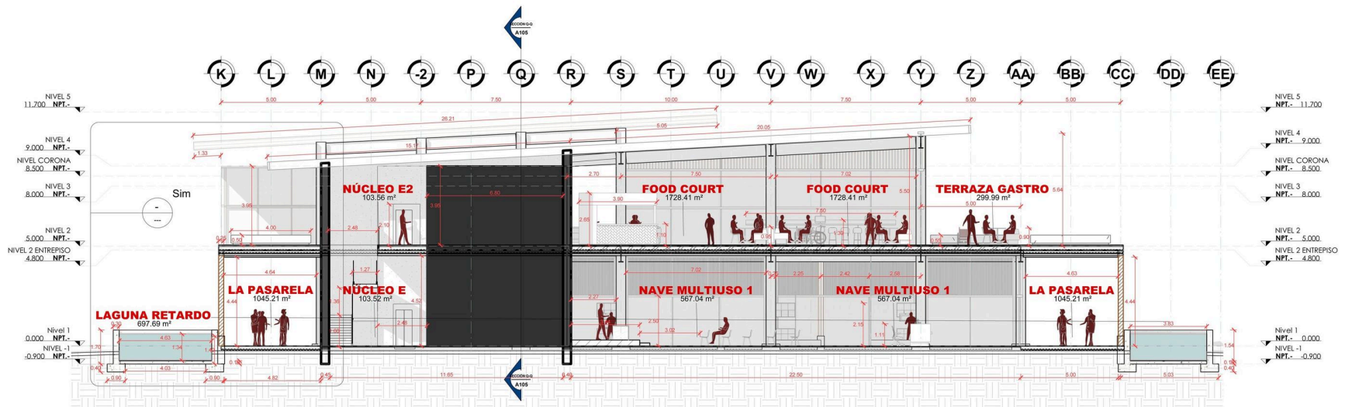
Level 1



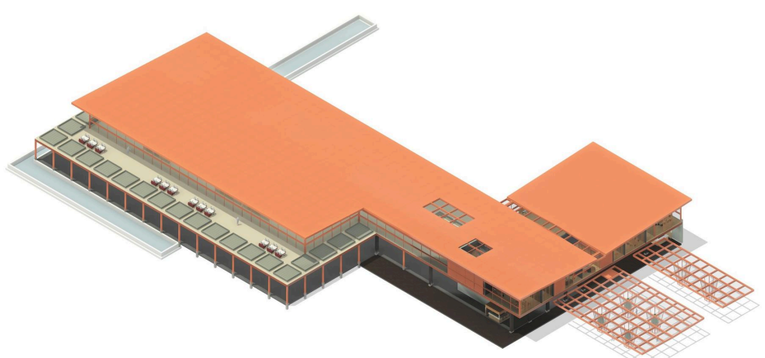
Level 2



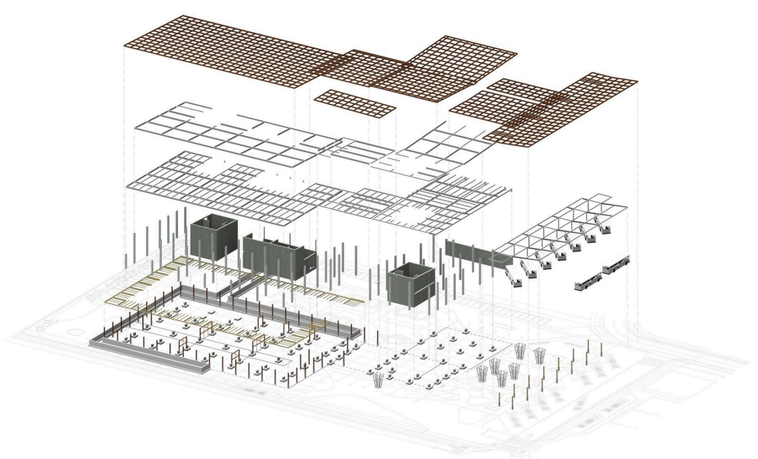
Longitudinal section Q-Q



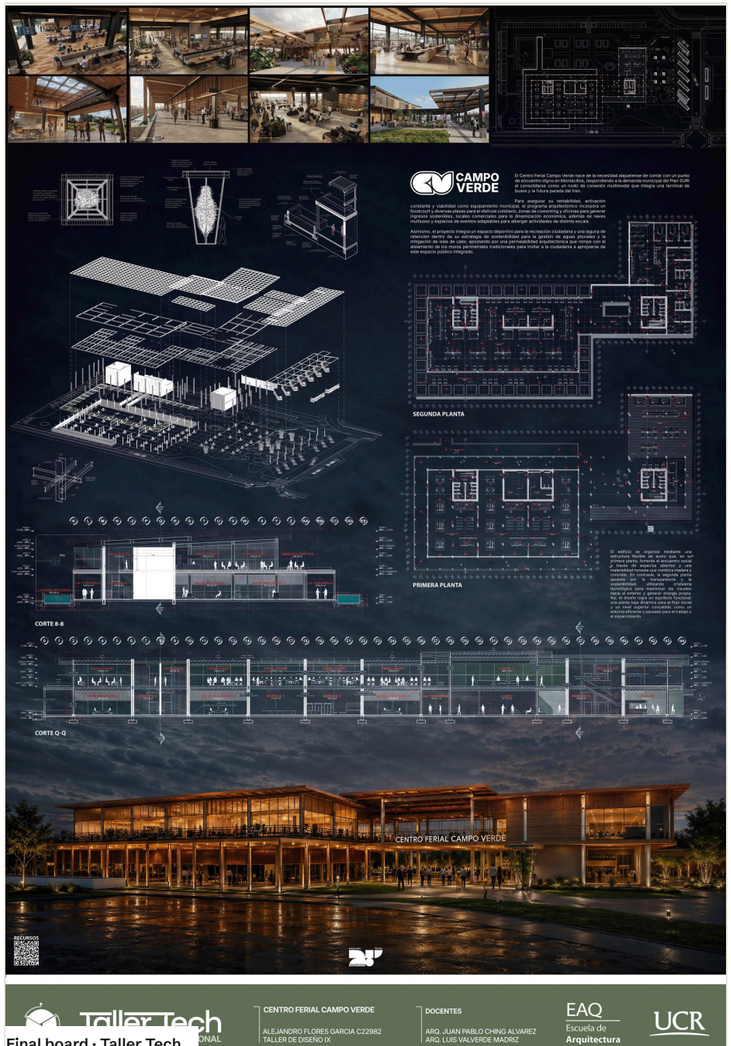
Section 8-8



Isometric



Exploded structural system



Final board · Taller Tech

03

BIM Gastrocenter

Full-cycle BIM integration

A four-month project to design and coordinate a three-level, open-plan food hall with a full BIM workflow. I modeled architecture, structure, topography and MEP in Revit 2026, produced quantity schedules and construction phases, and ran thermal-load and structural analytical studies. Dynamo scripts automated structural joints and repetitive tasks, and Navisworks handled clash detection and the TimeLiner construction sequence. Roles, sheets, tickets and schedules were managed in Autodesk Construction Cloud and BIM 360, simulating a real project team.

MY ROLE Solo BIM lead: architecture, structure and MEP in Revit 2026, Dynamo, Navisworks clashes and 4D, ACC.

INSTITUTION
Universidad LCI Veritas · Autodesk

YEAR
2024-2025

DURATION
4 months

PROGRAM
3-level food hall

SOFTWARE
Revit 2026 · Dynamo · Navisworks · ACC



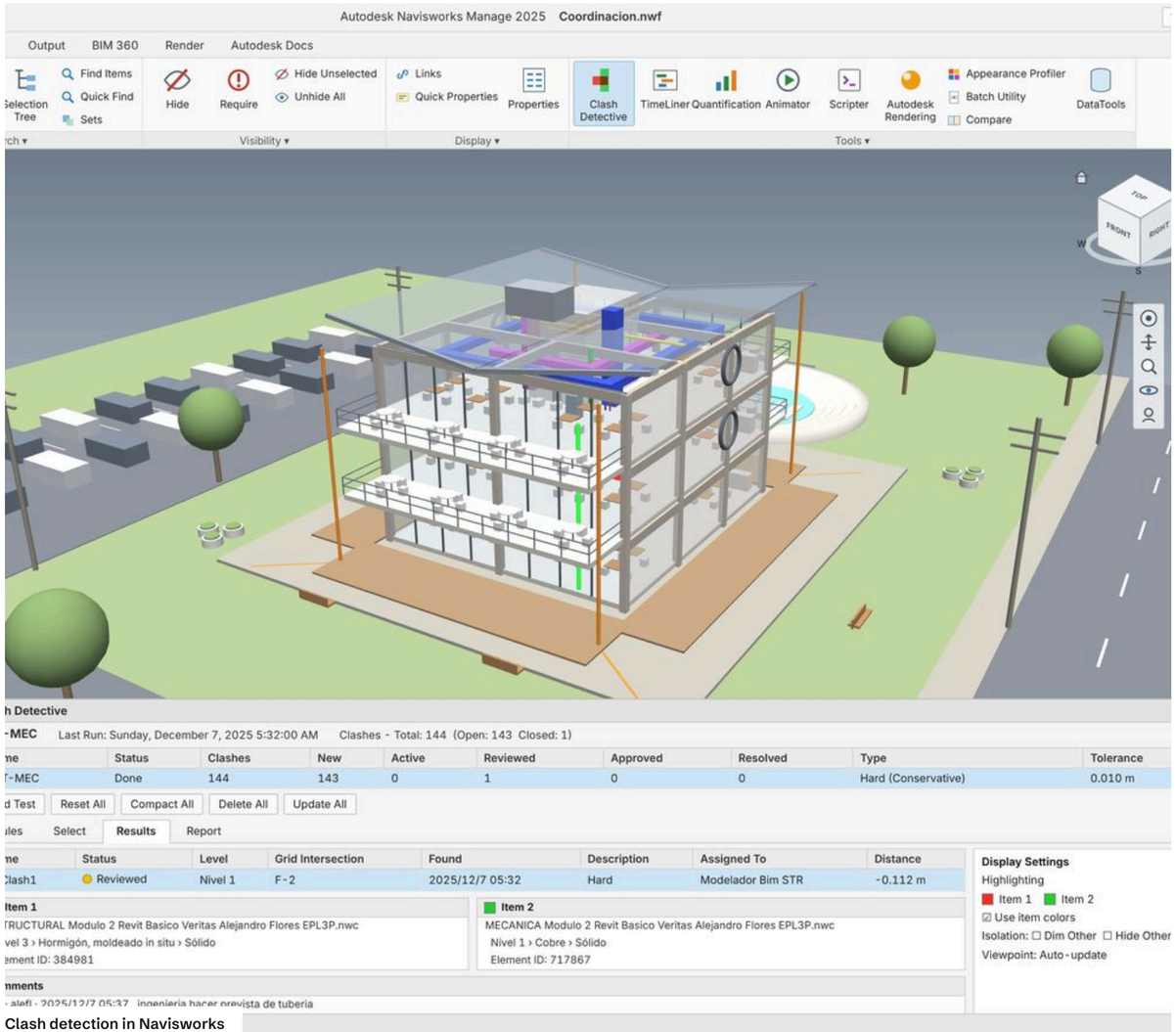
01 Architecture, structure, topography and MEP modeled in Revit 2026

02 Dynamo scripts that automate structural joints and repetitive tasks

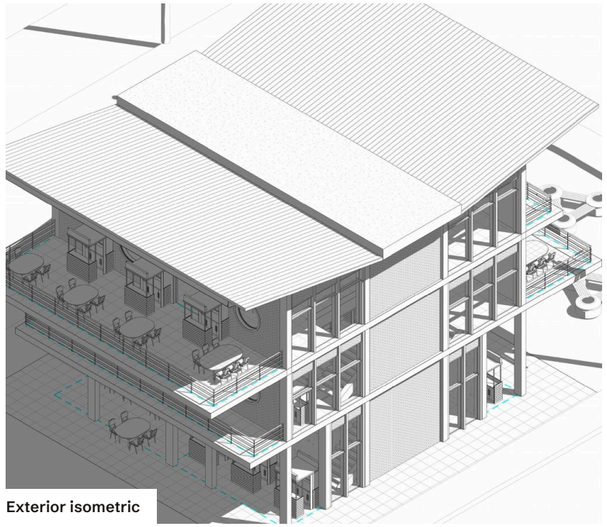
03 Clash detection and a 4D TimeLiner sequence in Navisworks, with the team run in ACC

02 · RENDERS

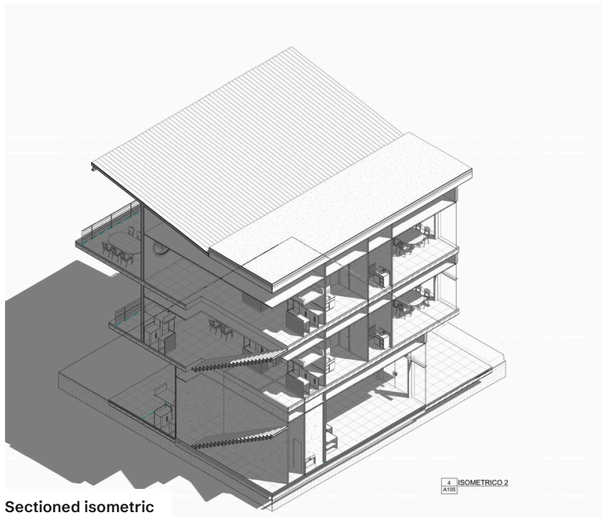
Views of the coordinated model, from Navisworks to the sun path.



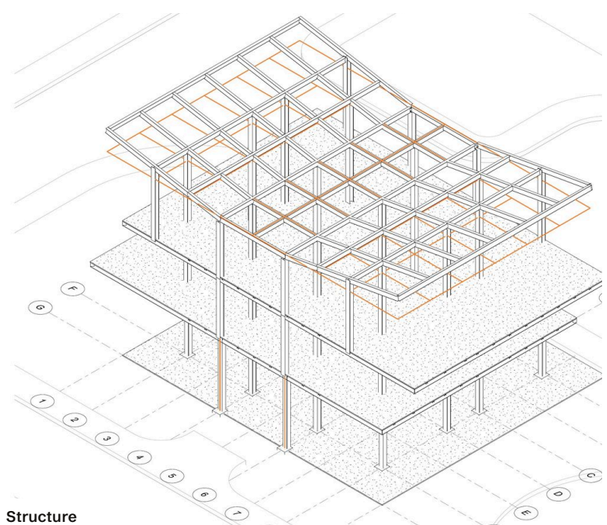
Clash detection in Navisworks



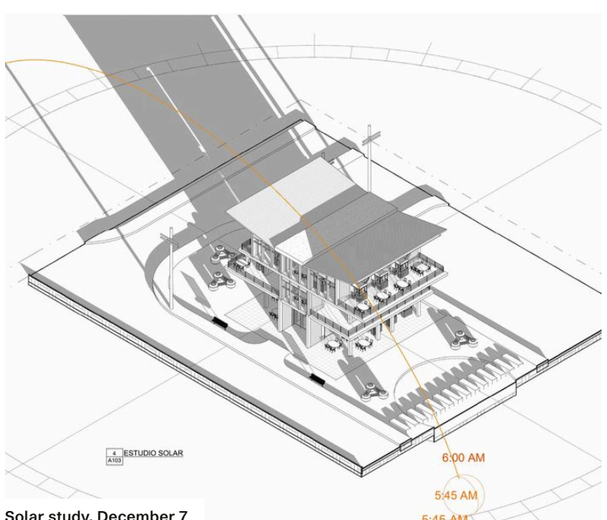
Exterior isometric



Sectioned isometric



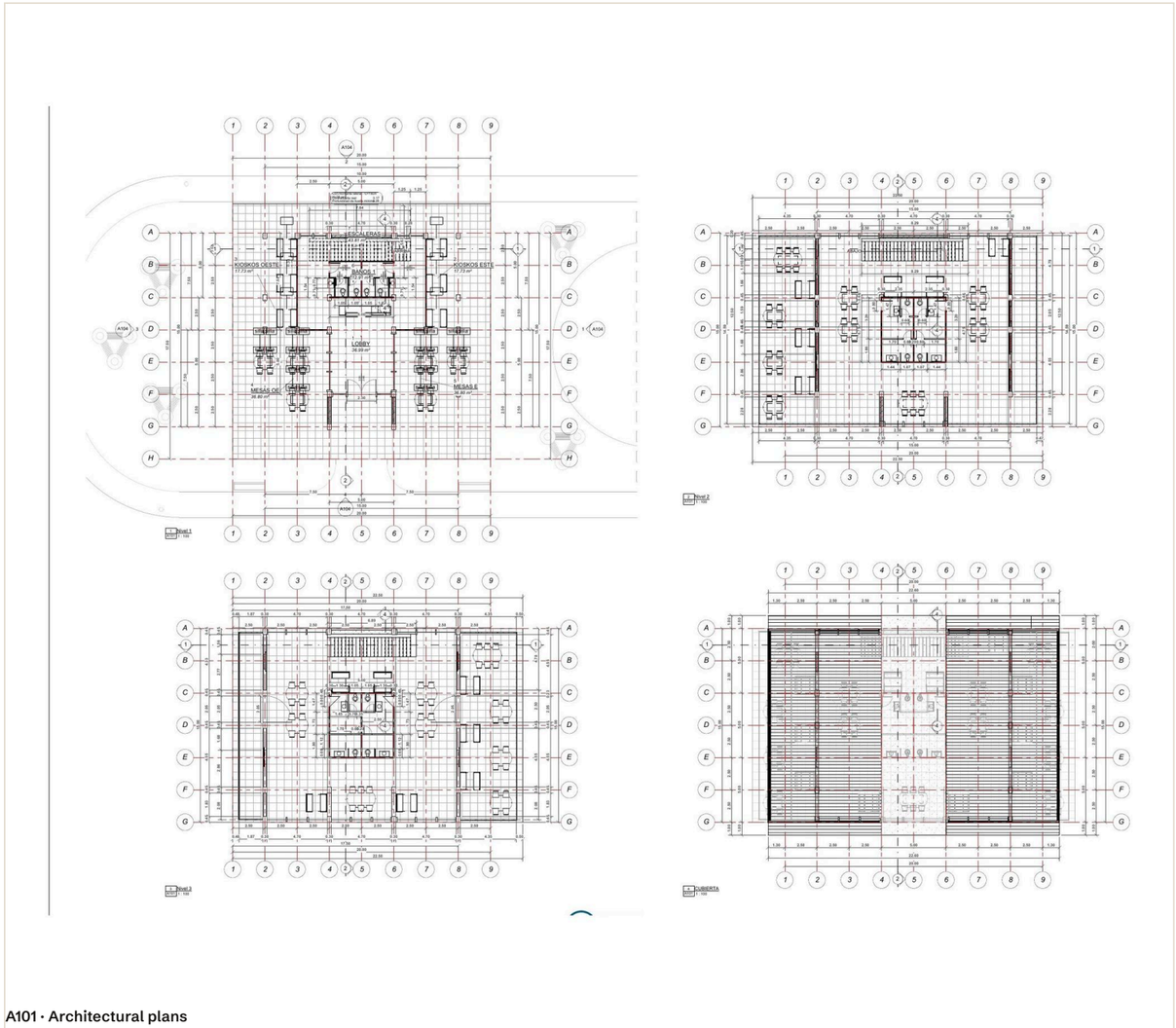
Structure



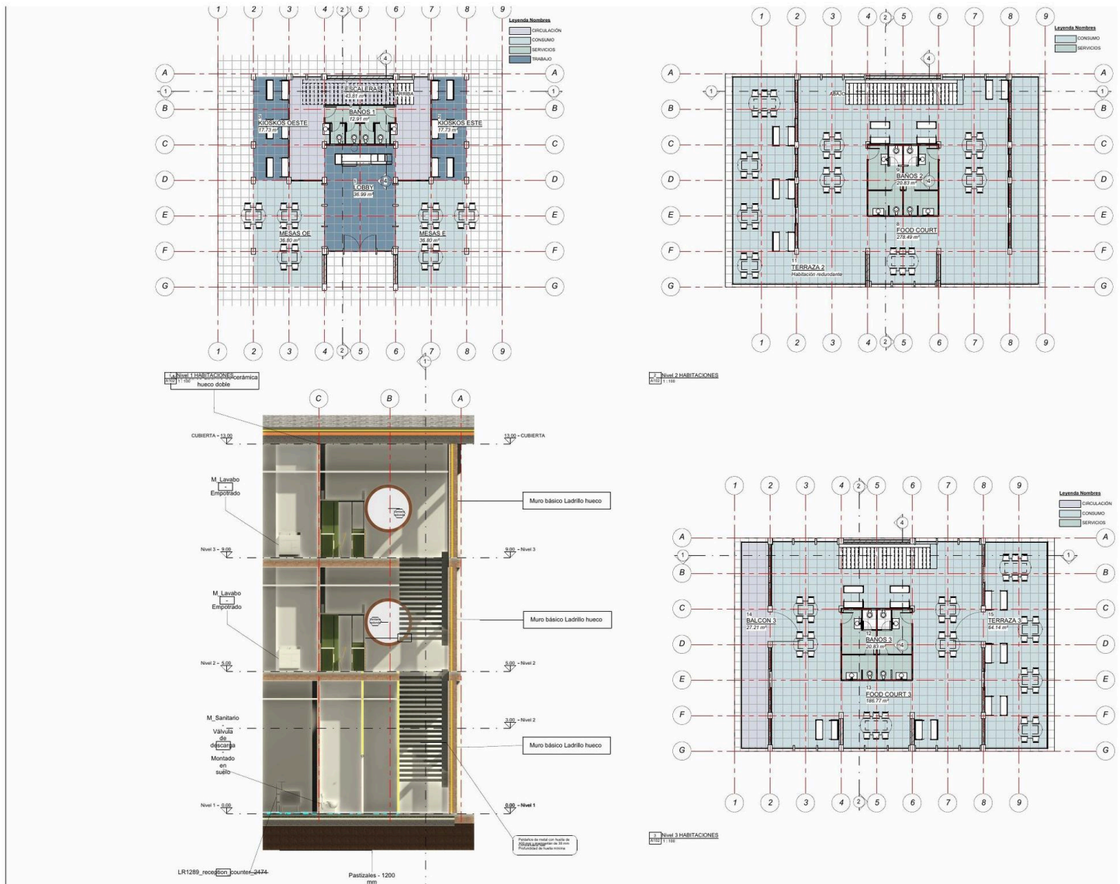
Solar study, December 7

03 · DRAWINGS 1/3

Three levels of the food hall, documented in Revit 2026.



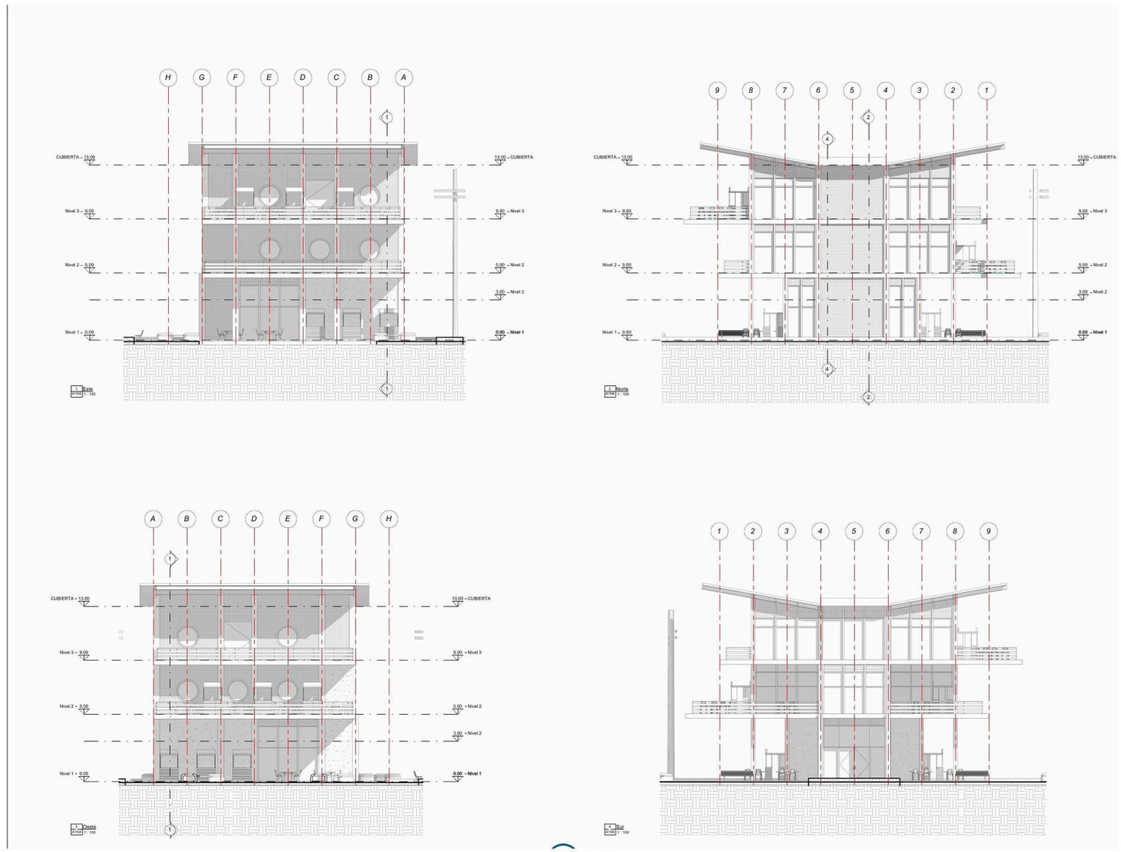
A101 · Architectural plans



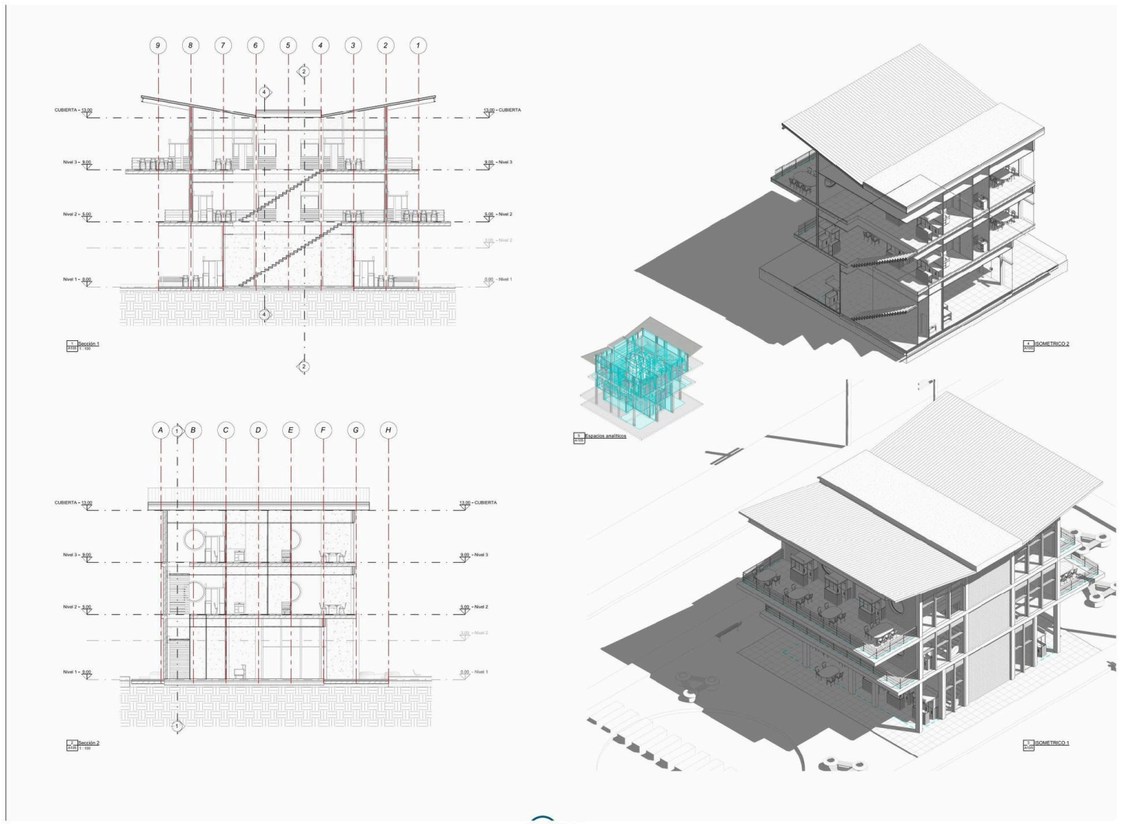
A102 · Distribution plans

03 · DRAWINGS 2/3

Elevations with the butterfly roof and portholes, sections and 3D views.



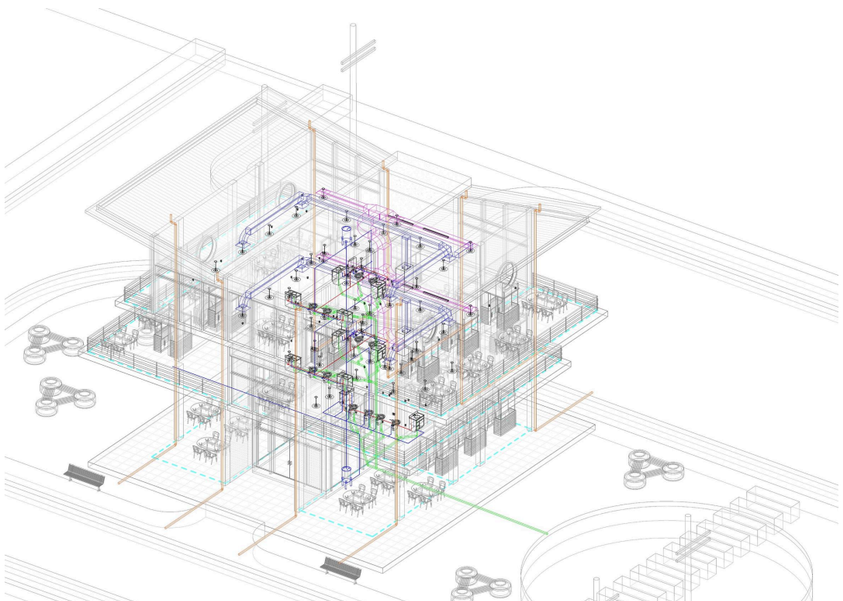
A104 · Elevations



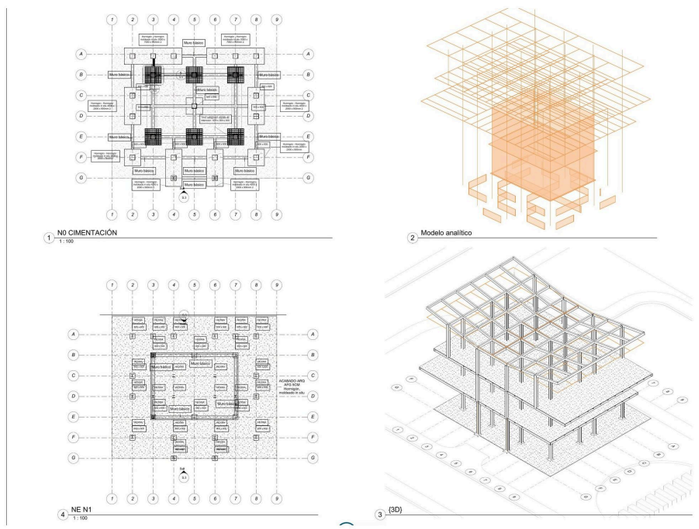
A105 · Sections and 3D views

03 · DRAWINGS 3/3

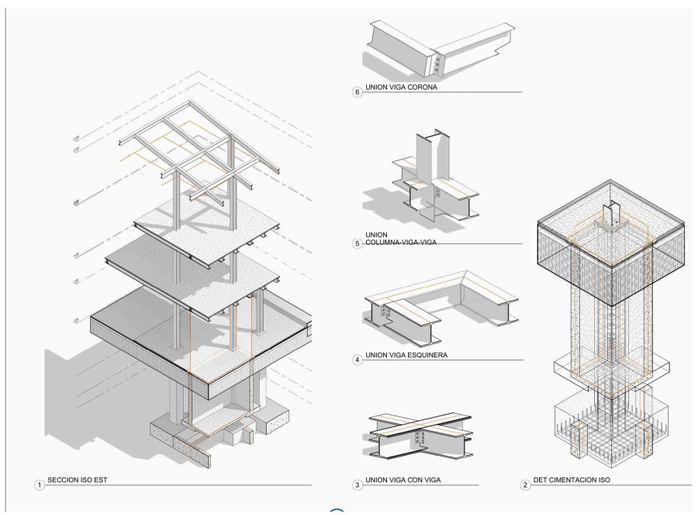
Architecture, structure and MEP coordinated in one federated model.



Federated model with MEP networks



S.1 · Foundations and analytical model



S.4 · Structural details

04

El Andén Food Hall

Food hall on a former rail line

El Andén turns an old stretch of railway into a meeting point for Cartago. As the social and commercial heart of the new linear park, it brings community, food and culture back to a corridor that had become run-down and fragmented. Designed for the tropical climate, it combines open plazas, green areas, retail modules, galleries, terraces and flexible shaded space, with coworking, a café, a cultural stage and mechanical parking. A landscape strategy guides visitors in from every entrance.

MY ROLE Solo project: program, structure and timber envelope in SketchUp, drawings and photoreal views in D5.



LOCATION
Occidental, Cartago, CR

YEAR
2025

STUDIO
Design Studio 7, UCR

AUTHORSHIP
Individual

SOFTWARE
SketchUp · D5 Render

01
A former stretch of railway turned into the social heart of a new linear park

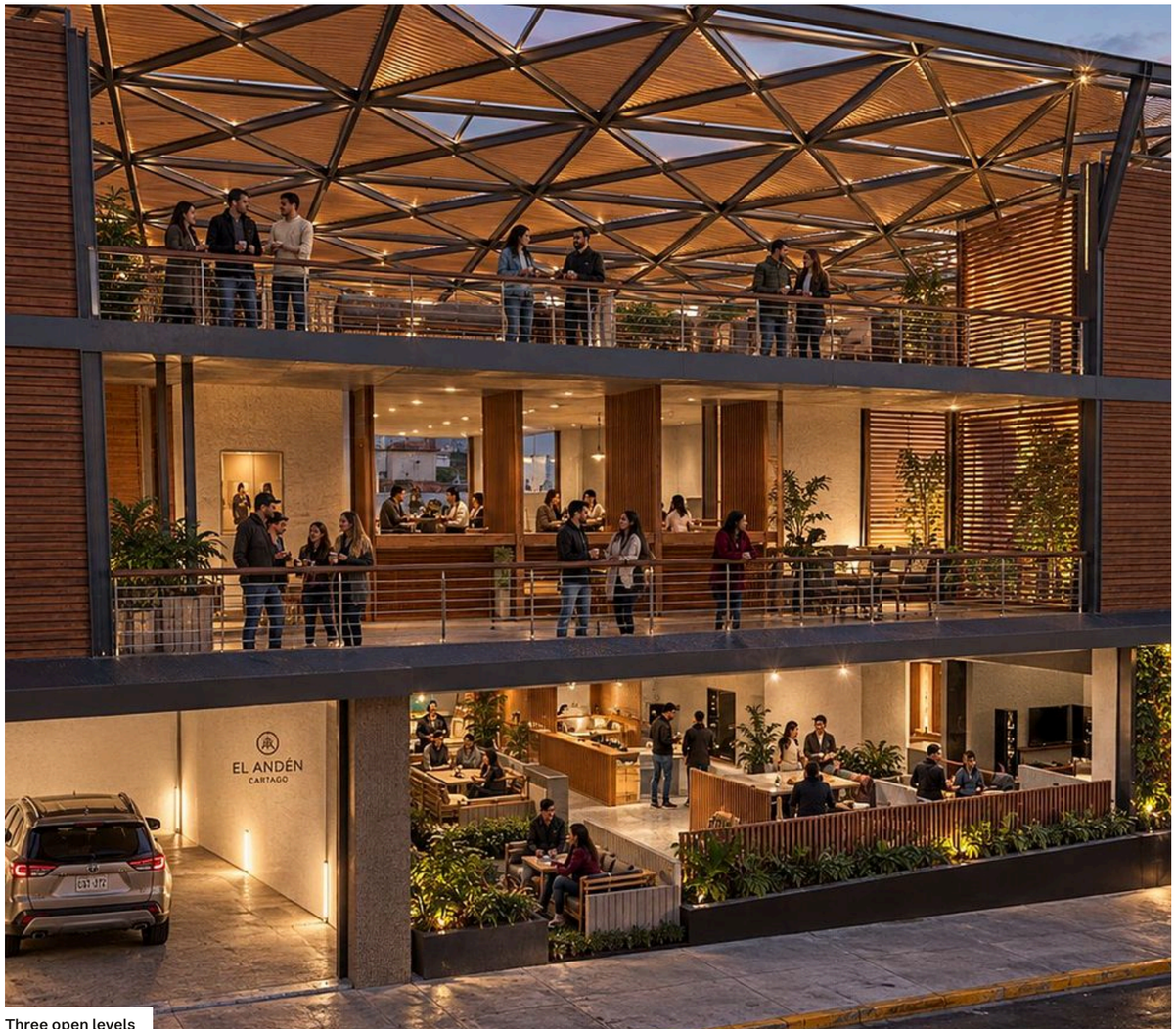
02
Open plazas, galleries, terraces and shaded flexible space for the tropical climate

03
Coworking, café, cultural stage and mechanical parking in one building

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02 · RENDERS

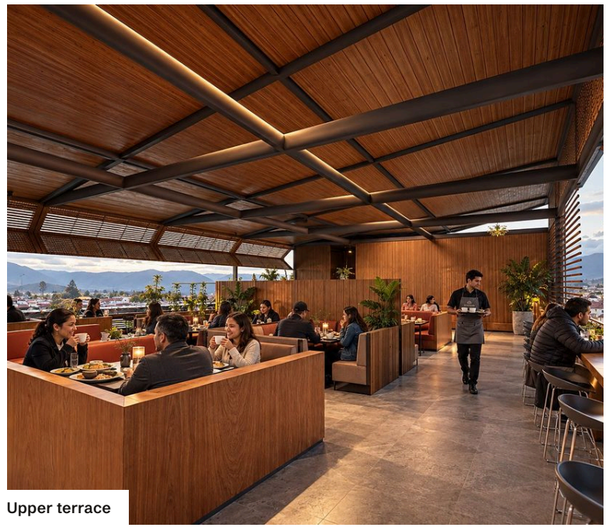
A former railway turned into the social heart of a linear park.



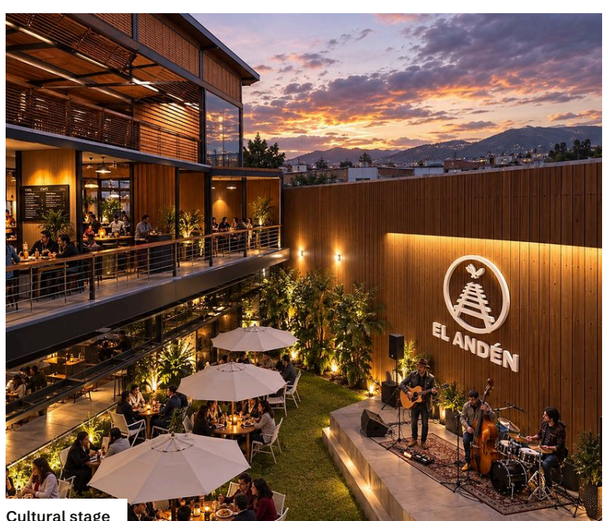
Three open levels



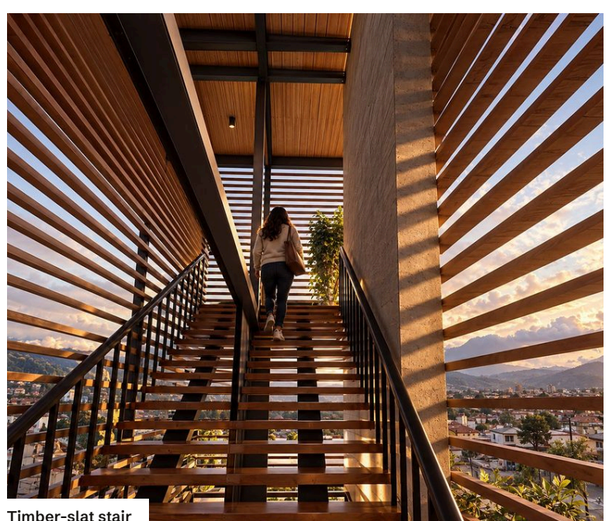
Inner courtyard



Upper terrace



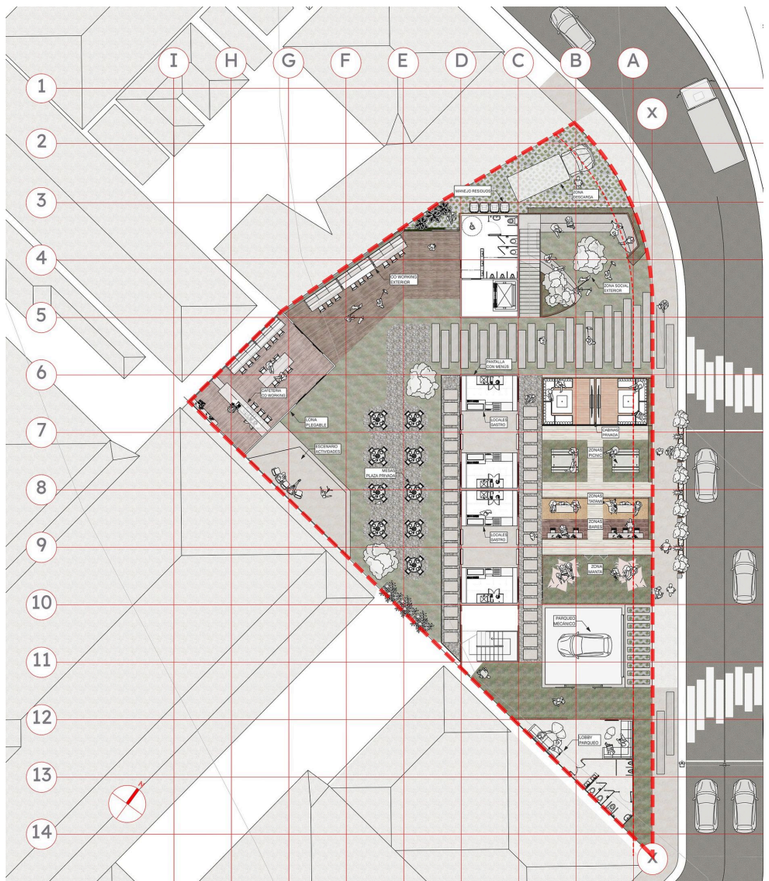
Cultural stage



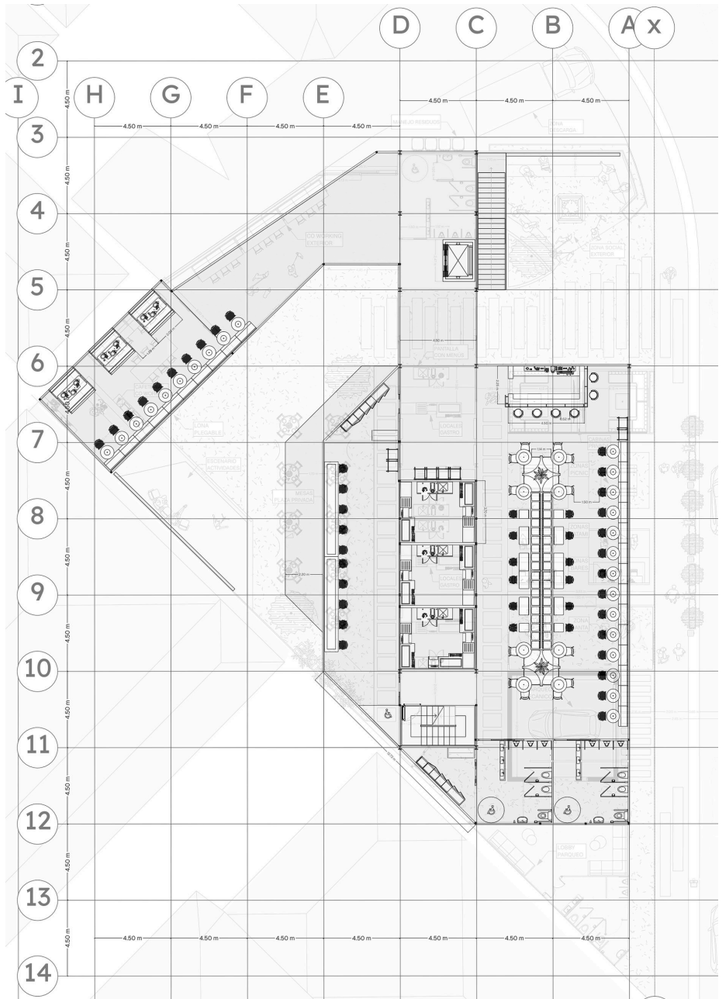
Timber-slat stair

03 · DRAWINGS 1/3

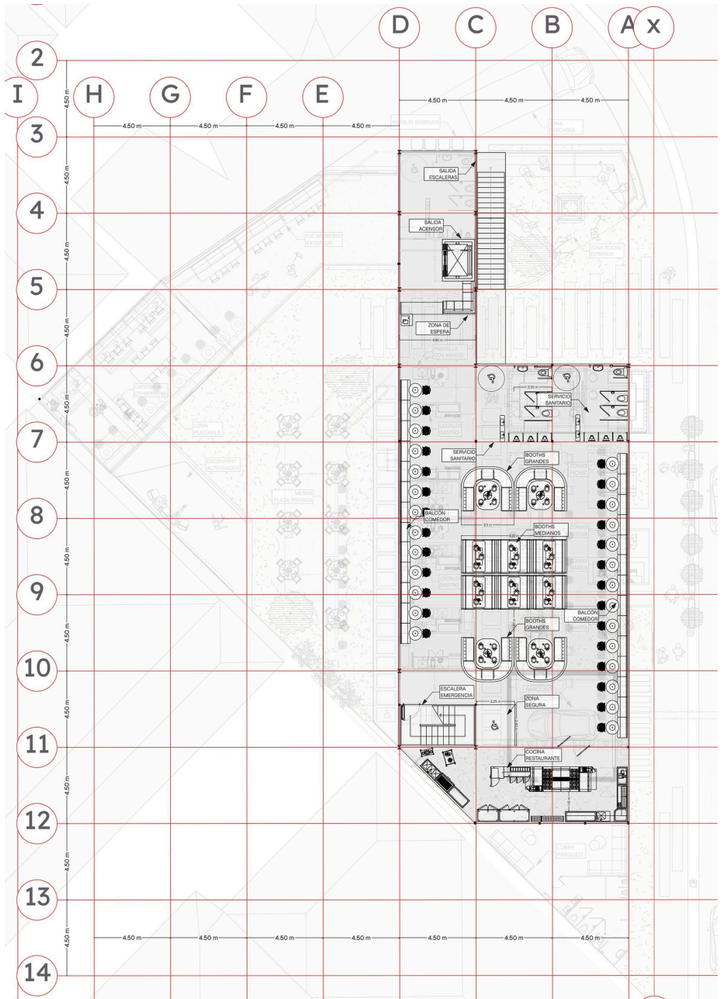
Food stalls, coworking, terraces and the mechanical parking.



Level 1 and site



Level 2



Level 3

03 · DRAWINGS 2/3

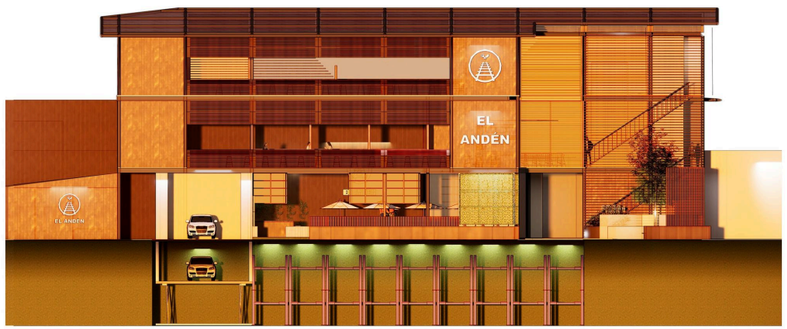
Longitudinal section D-d, from the roof down to the mechanical parking.



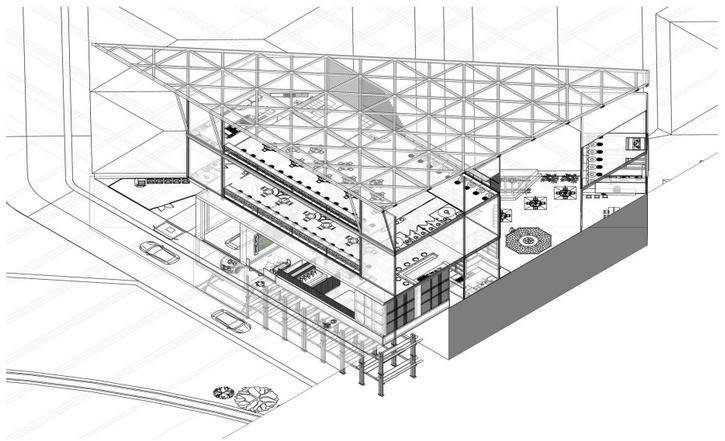
Longitudinal section D-d

03 · DRAWINGS 3/3 + FINAL BOARD

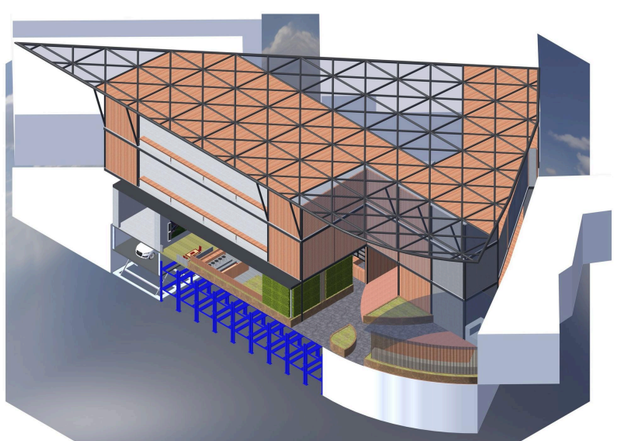
The timber street façade and how the program stacks under the folded metal roof.



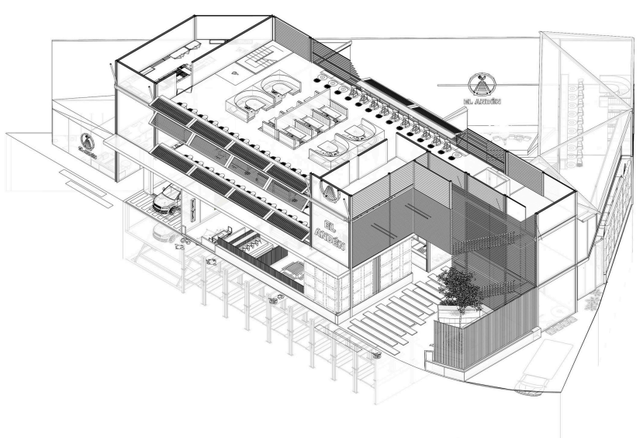
Main façade



Isometric section



Roof and structure



Sectioned axonometric



Final board · Taller 7

05 TRI-FOLIO

Trifolio Labs

Bioclimatic research hub

Developed for the Jacques Rougerie Foundation, a resilient masterplan for El Cocal, Puntarenas, aimed at mitigating sea-level rise. A diagnosis across climate, social and urban dimensions led to Trifolio Labs, a bioclimatic laboratory hub. Aquatic modules sit on hydraulic piles inspired by traditional canoe structures and combine meteorology and space-science research with a scientific-recreation park that builds social cohesion and environmental education. Electrochromic glass, galvanized steel and floating hydroponic planters join advanced technology with a sensory experience of Costa Rica's coast.

MY ROLE Co-designed with Sofía Villalobos Gómez: climate diagnosis, resilient master plan, lab modules and DIALux studies.

LOCATION El Cocal, Puntarenas, CR	YEAR 2024
STUDIO Design Studio 6, UCR	FRAMEWORK Jacques Rougerie Foundation
CO-AUTHOR Sofía Villalobos Gómez	SOFTWARE SketchUp · Revit · DIALux · Twinmotion



01
Resilient masterplan against sea-level rise for the Jacques Rougerie Foundation

02
Aquatic lab modules on hydraulic piles inspired by traditional canoes

03
Electrochromic glass, galvanized steel and floating hydroponic planters

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02 · RENDERS

Labs on hydraulic piles inspired by traditional canoes.



Three glass leaves over the water



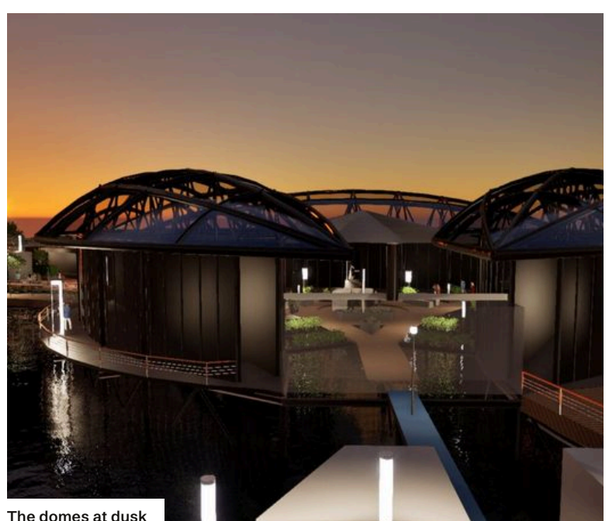
Labs



Weather station

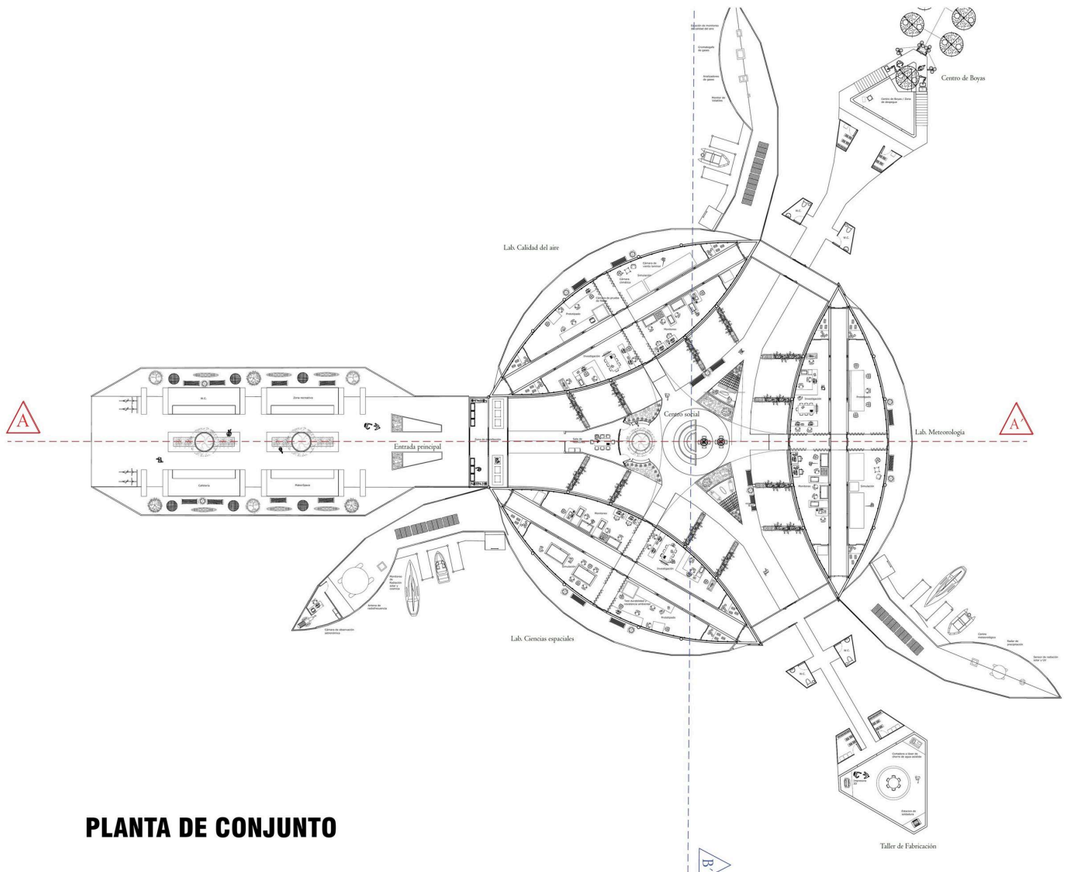


Social center

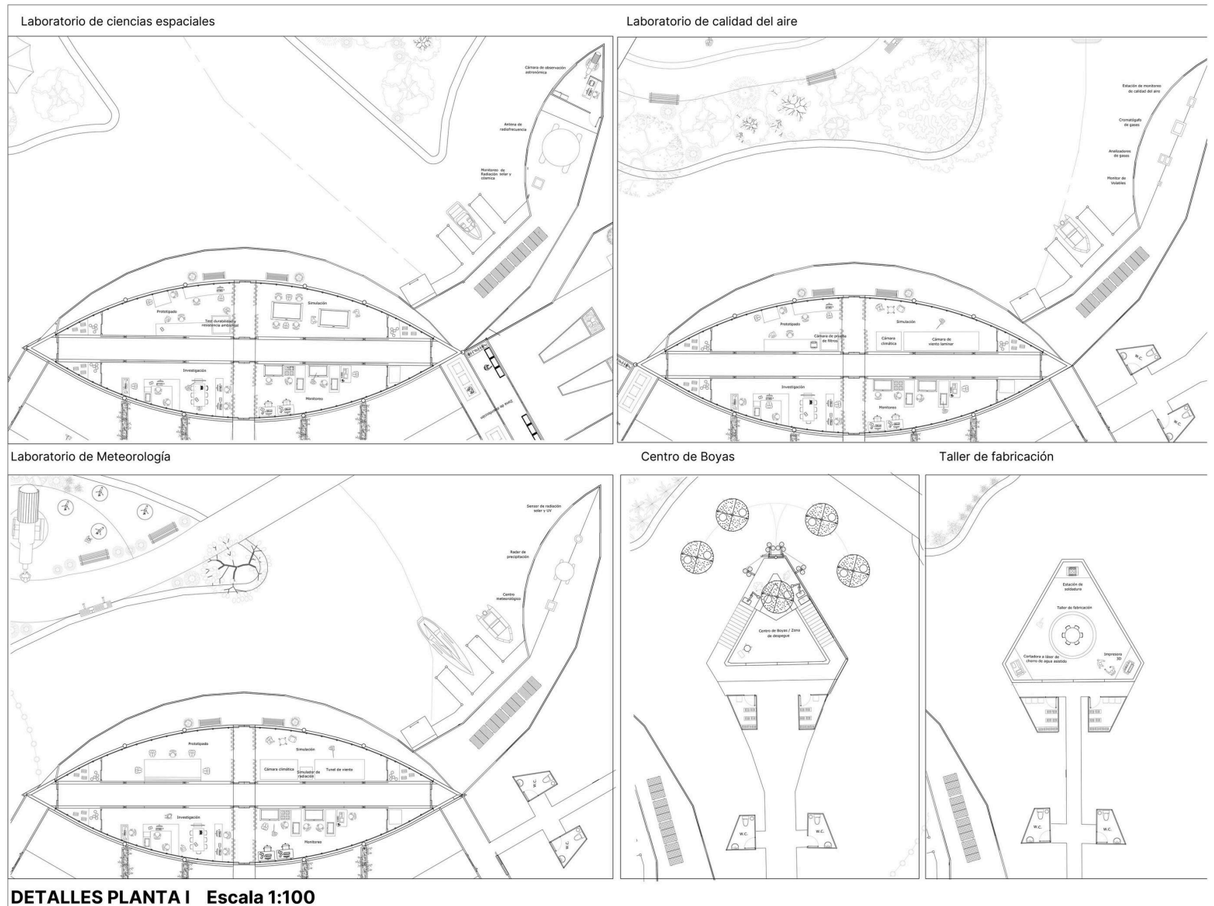


The domes at dusk

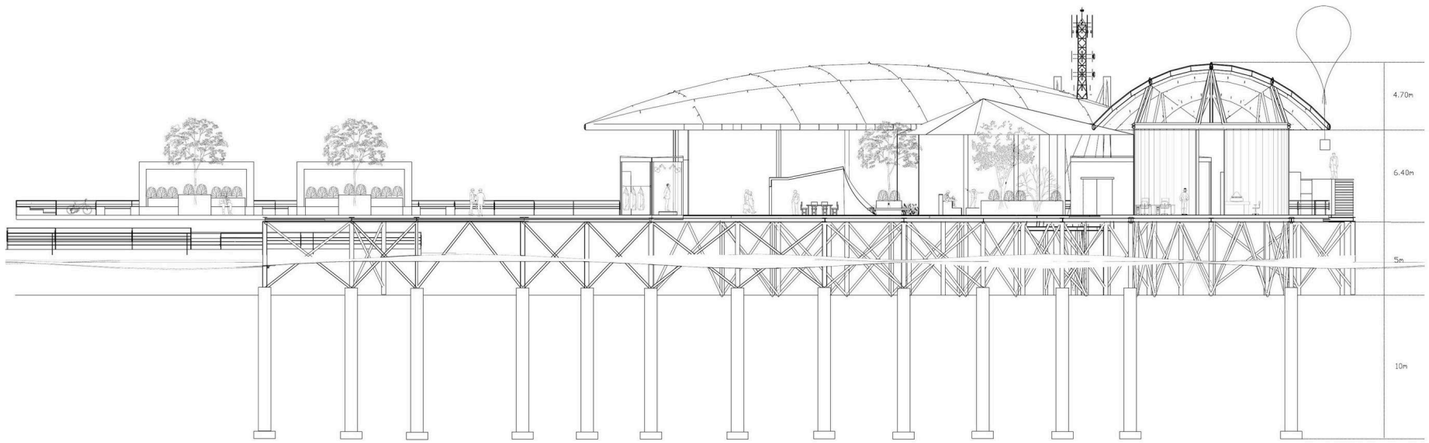
03 · DRAWINGS 1/3 The resilient master plan and the lab, buoy and workshop modules.



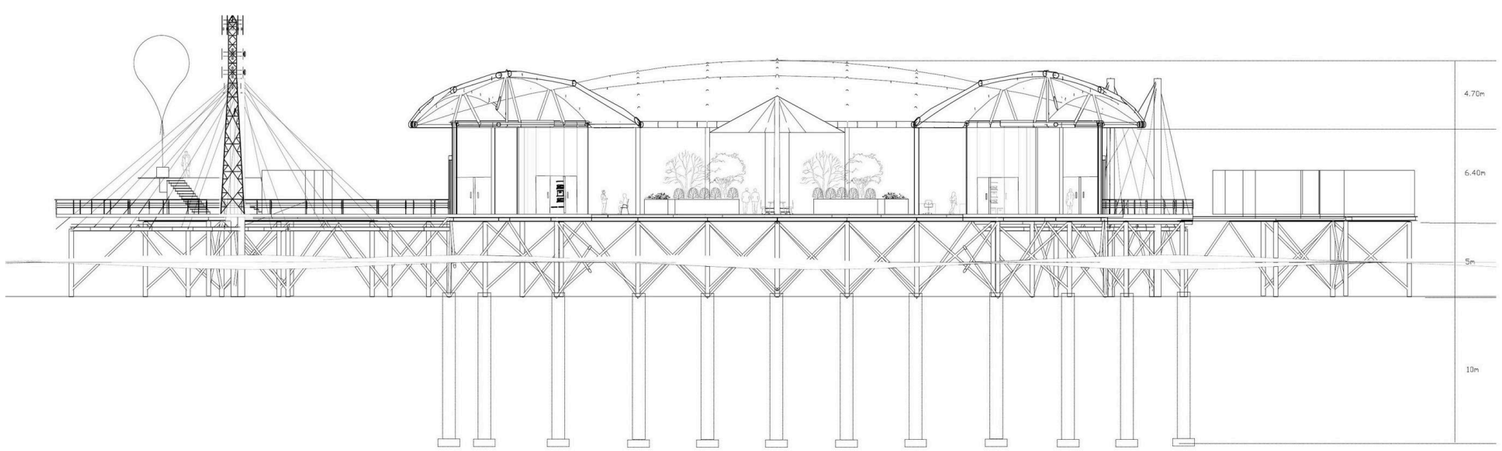
Site plan



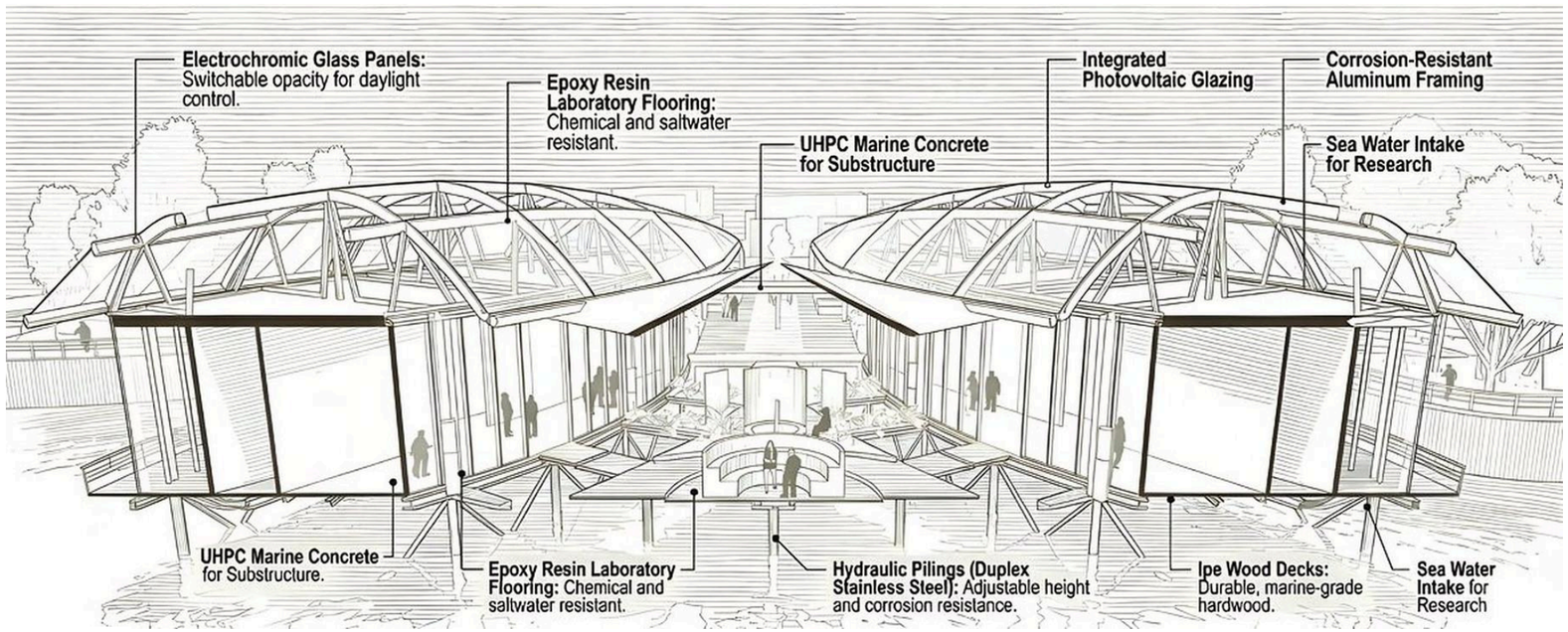
Lab, buoy-center and workshop modules



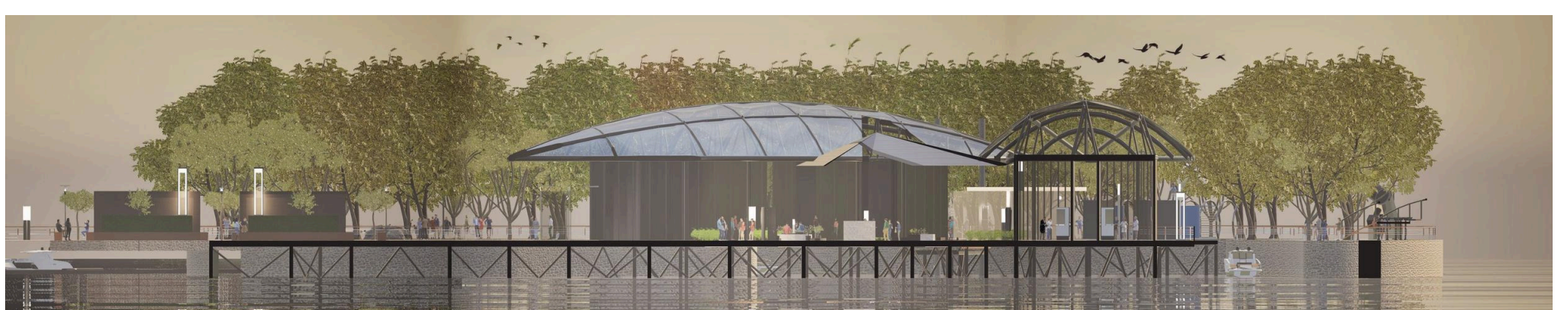
Longitudinal section A-A'



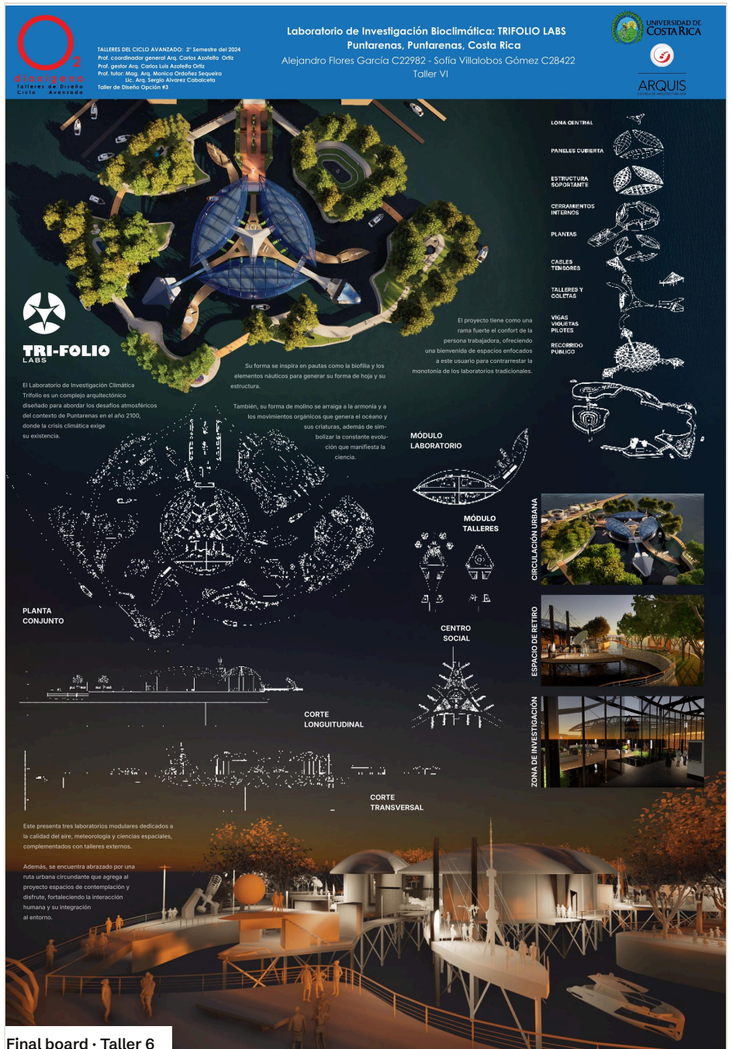
Cross section B-B'



Section with materials



Rendered longitudinal section



Final board · Taller 6

Something caught your eye? I'd love to talk about it.

Thanks for making it all the way here. If a project sparked a question, an idea or a "wait, how did you do that?", write me. Coffee's on me, virtual or real.

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