

CONSTRUCTION CYCLES

**ANALYSIS
REITERATION
INNOVATION**

**STUDIO JMA FRIBOURG
GUAITA & BAUR
SPRING SEMESTER 2021**

Construction Cycles Studio
Joint Master of Architecture
HEIA Fribourg

invited professors
Patricia Guaita & Raffael Baur

students
Anaïs Berthod, Killian Bournoud,
Simon Eloy, Valentina Frkovic, Thomas
Gétaz, Aude Mueller, Yvon Musy,
Vincent Nicollin, Gregory Perruchoud,
Fabien Peter, Egzon Reka, Lencha
Shan, Raoul Vallat, Samy Vincent,
Koen Wintermans

technicians atelier PopUp
Charles Riedo
Claude-Alain Jacot

editorial
Raffael Baur, Patricia Guaita,
Anaïs Berthod

design
Timothé Jaberg, Ugo Masnada,

CONSTRUCTION CYCLES JMA-FR SP21 SMART BUILDING

Patricia Guaita is Invited Professor at the JMA HEIA Fribourg, Switzerland. She is teaching at the EPFL Lausanne since 2009, where she is currently co-leading an interdisciplinary research project on textile reinforced concrete construction in collaboration with the FAUFBA in Salvador de Bahia, Brazil. Since 2013, she is the director of the Open City Research Platform EPFL at the Open City in Valparaiso, Chile. She is co-editor of Building Cultures Valparaiso (Routledge/EPFL Press). Since 2018, she is doing a PhD at the CEU in Madrid, Spain. She studied in Madrid and Venice and received her architecture degree from the ETSAM in Madrid, in 1997.

Raffael Baur is Invited Professor at the JMA HEIA Fribourg, Switzerland. From 2010-19 he was teaching at EPFL Lausanne in the lab ALICE. Currently he is co-leading an interdisciplinary research on textile reinforced concrete construction in collaboration with the FAUFBA in Salvador de Bahia. He co-initiated and teaches the Open City Research Platform at the Open City in Valparaiso. Since 2020 independent architect in Zürich. From 2006-19 partner at UNDEND Architektur AG in Zürich. He received a M.Arch from the ETH Zürich in 2005 and a B.Arch from the Cooper Union, New York, in 2003.

CONSTRUCTION CYCLES ANALYSIS - REITERATION - INNOVATION

The design studio *Construction Cycles* is conceived as a series that build up a research about the foundations of architectural construction with the aim to place a cyclical conception of construction at the outset of the design process. We analyse a key moment of the history of construction - selected projects by Jean Prouvé - and explore their potential to incorporate alteration and future transformations. The basis of our investigation is a direct testing of material and fabrication limits and a rethinking of the processes of production and use as of a cyclical nature. In a world immersed in a crisis of physical production, we search for other forms of building the world and explore new formats of learning which retain, through experience, the humanist nature of architecture.

L'atelier *Construction Cycles* est conçu comme une série qui développe une recherche sur les fondements de la construction architecturale avec le but de placer une conception cyclique à l'origine du processus de création. Nous analysons un moment clé de l'histoire de la construction - des projets de Jean Prouvé - que nous explorons en relation à leur potentiel d'incorporer des altérations et des transformations futures. La base de notre investigation est une démarche d'essais qui explore les limites d'un matériau et de sa mise en œuvre, en considérant les processus de production et d'utilisation comme des conceptions cycliques. Dans un monde en crise avec sa production physique, nous recherchons des formes alternatives pour construire le monde et explorons de nouvelles formes d'apprentissage qui gardent, à travers l'expérience, la nature humaniste de l'architecture.

CONTENT

CONSTRUCTION CYCLES

ANALYSIS : 5 buildings by Jean Prouvé
REITERATION - INNOVATION : student projects

AÉRO-CLUB ROLAND GARROS, BUC, 1935-36

Analysis
p. 10-11 Yvon Musy
Projects
p. 14-15 Koen Wintermans
p. 16-17 Simon Eloy

MAISON DU PEUPLE, CLICHY, 1936-39

Analysis
p. 20-22 Killian Bournoud
p. 23 Samy Vincent
Project
p. 24-25 Samy Vincent

MAISON TROPICALE, NIAMEY, 1949-52

Analysis
p. 28-31 Anaïs Berthod
Project
p. 34-37 Anaïs Berthod

MAISON JEAN PROUVÉ, NANCY, 1952-54

Analysis
p. 40-42 Valentina Frkovic
p. 43 Vincent Nicollin

Projects
p. 46-47 Vincent Nicollin

ÉCOLE TEMPORAIRE, VILLEJUIF, 1956-57

Projects
p. 50-52 Aude Mueller
p. 53 Fabien Peter

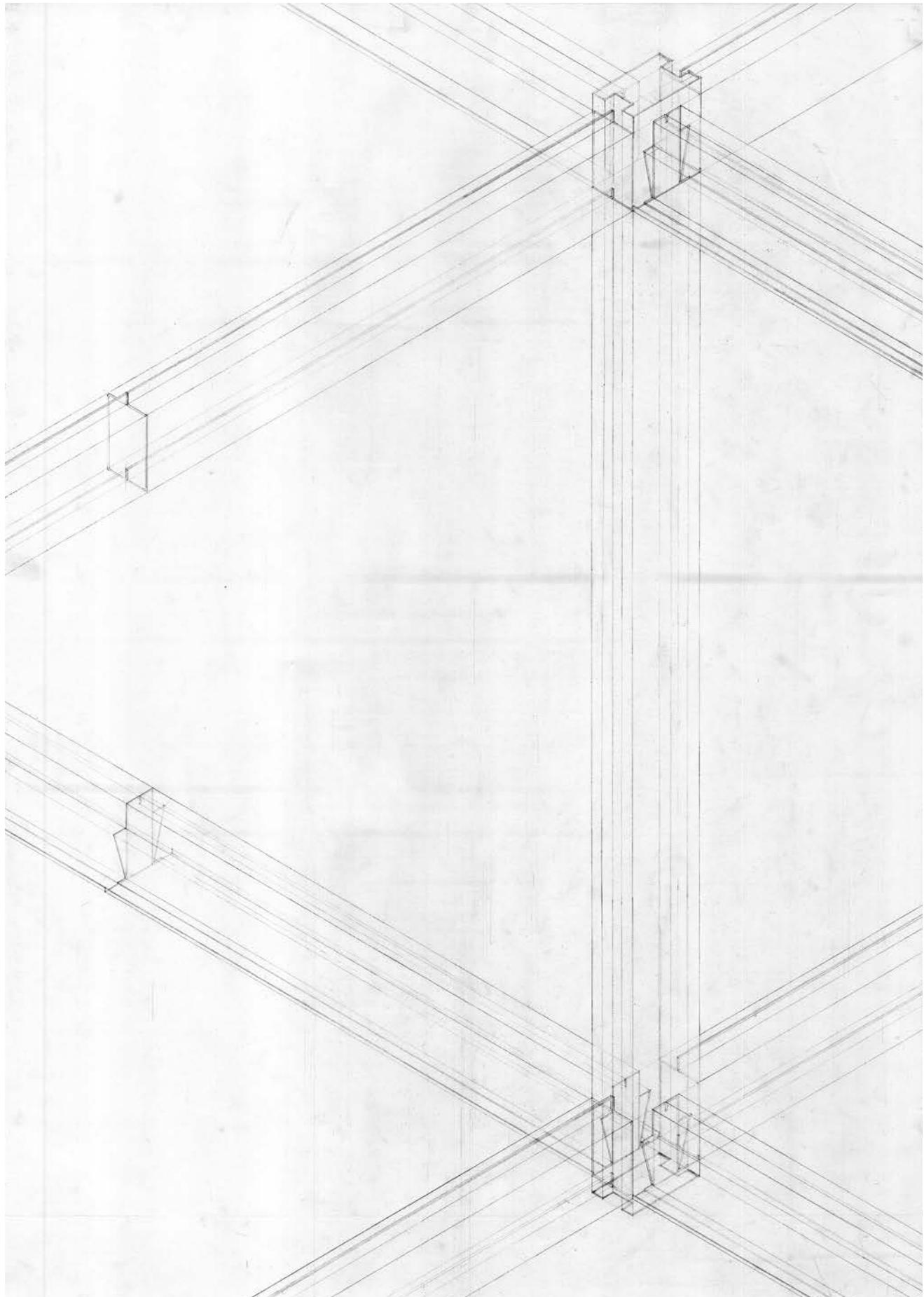


Details - transformation of Jean Prouvé
Maison Tropicale / Maison du Peuple / Aéro-Club Roland Garros
Halle Bleue, Fribourg

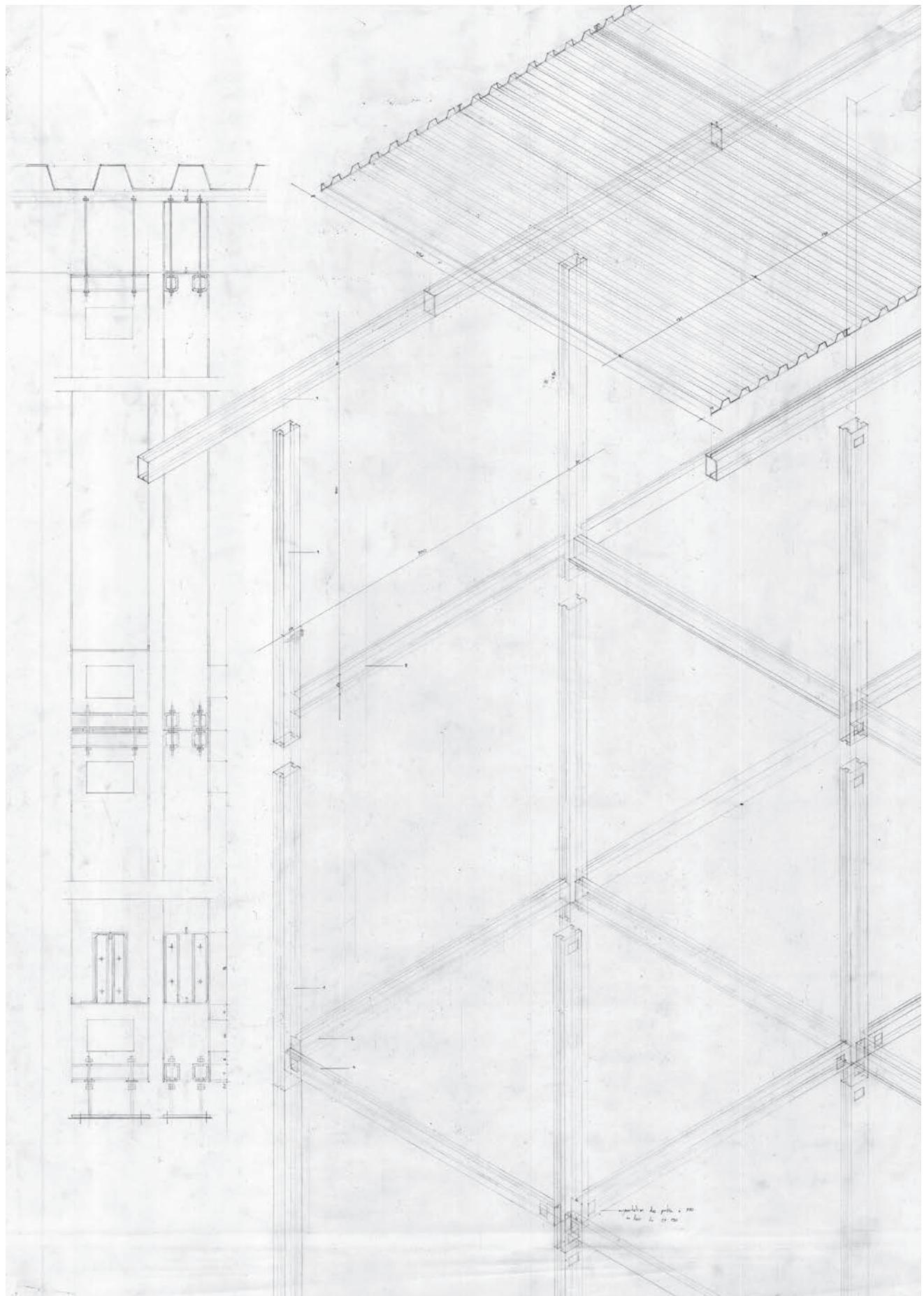
AÉRO-CLUB ROLAND GARROS, BUC, 1935-36



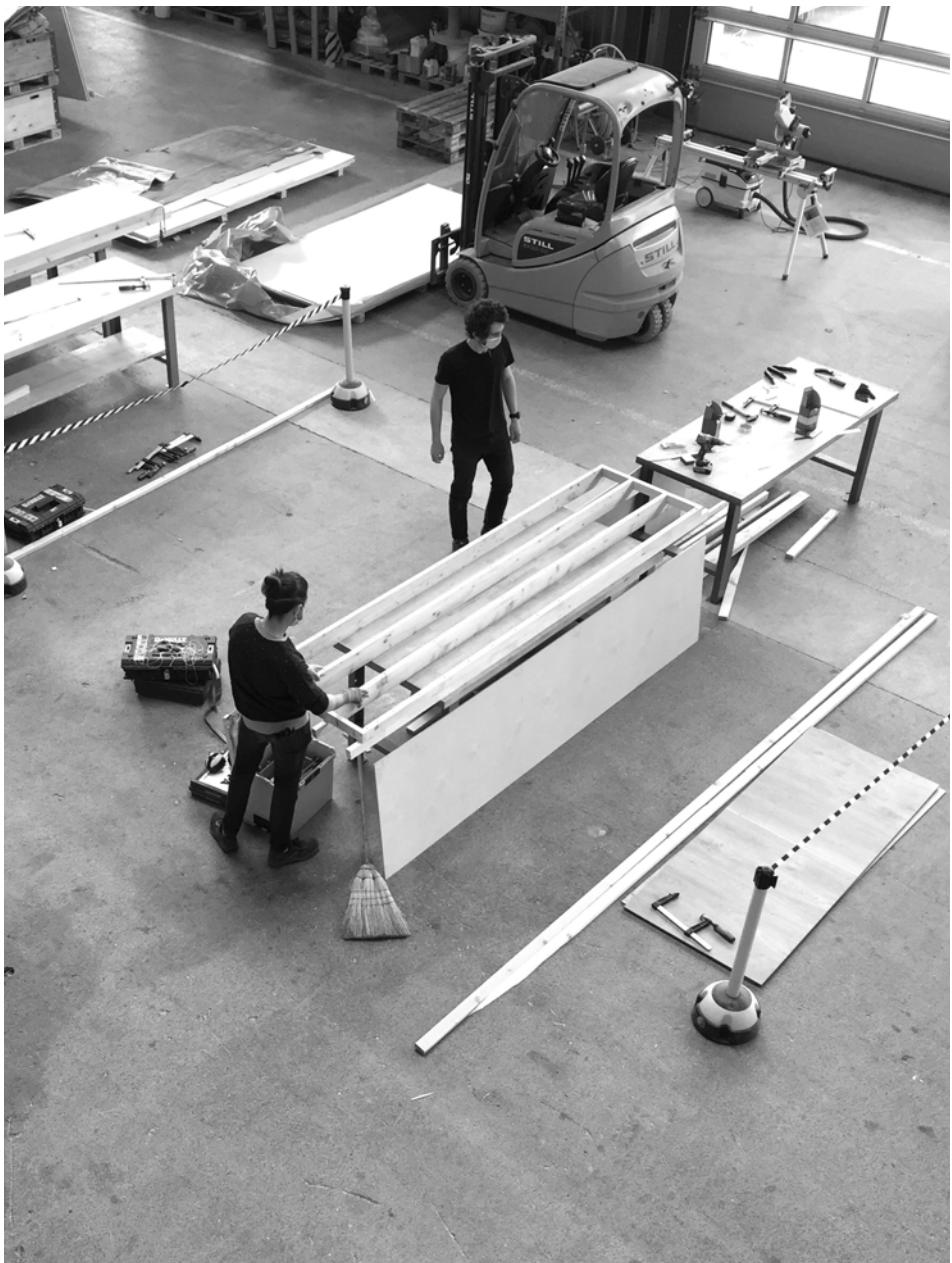
Aéro-Club Roland Garros - Jean Prouvé
prototype of structure, Simon Eloy, Yvon Musy, Koen Wintermansg
Halle Bleue, Fribourg



Aéro-Club Roland Garros - Jean Prouvé
analytical drawing, Yvon Musy

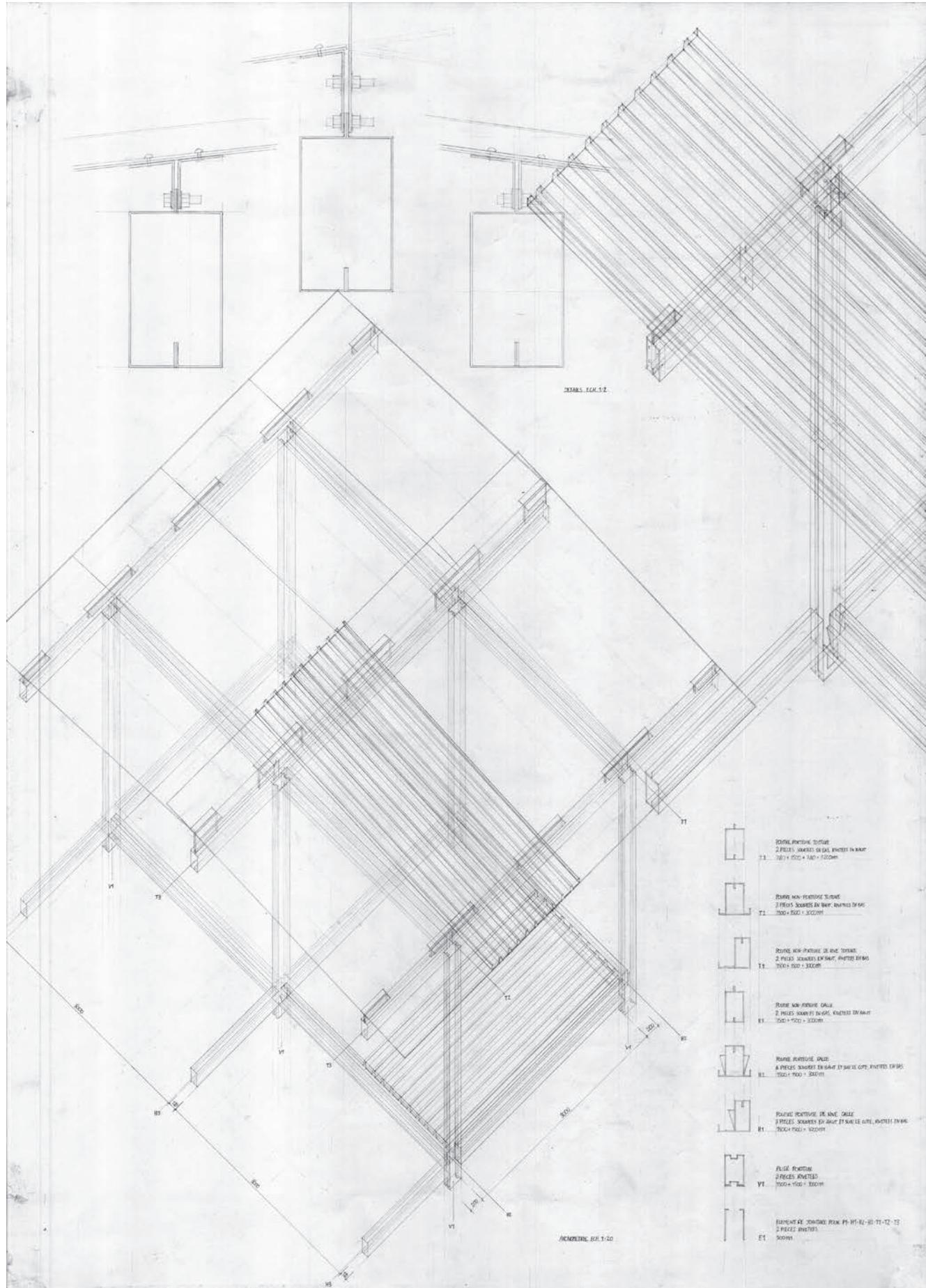


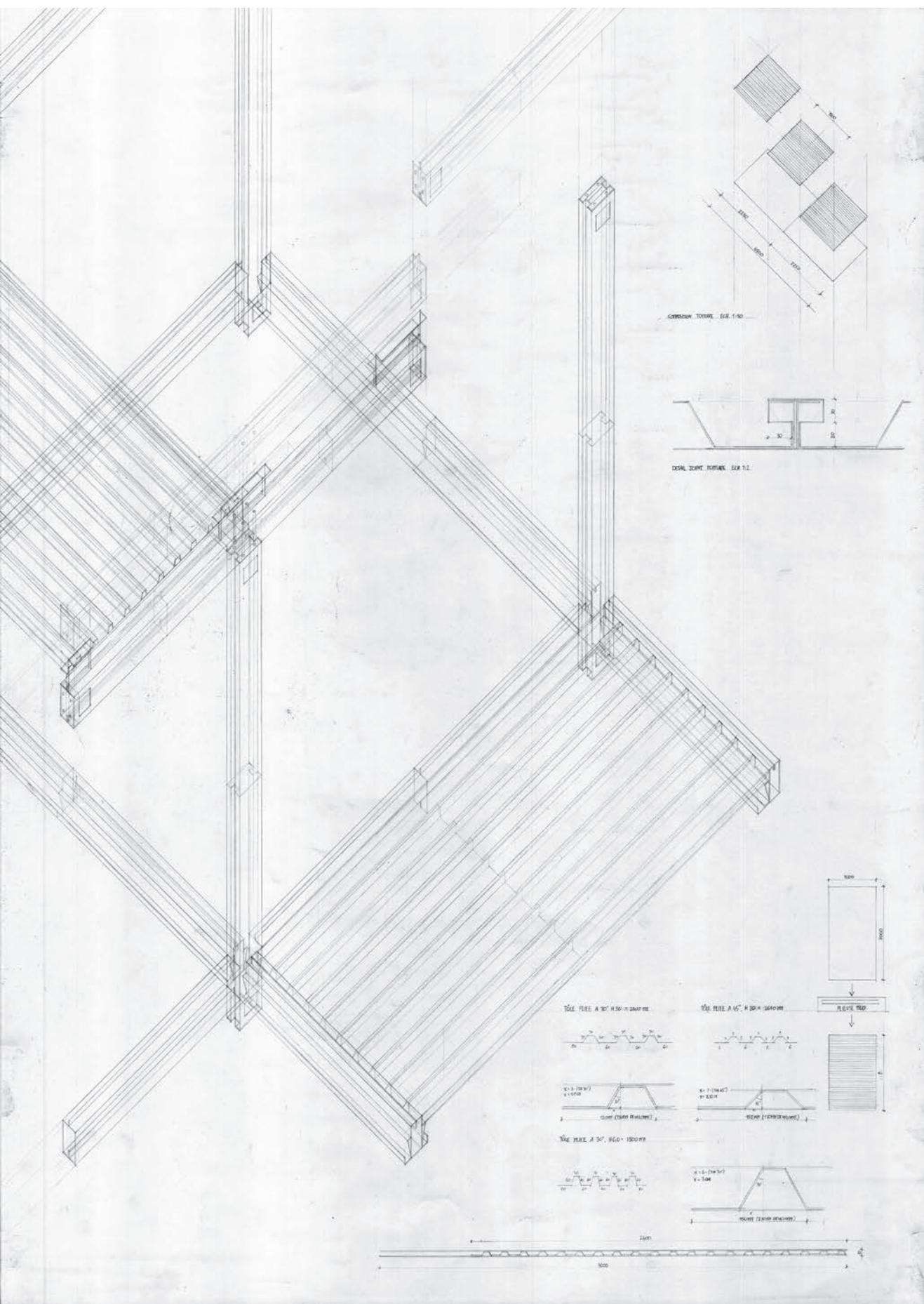
Yvon Musy
project drawing



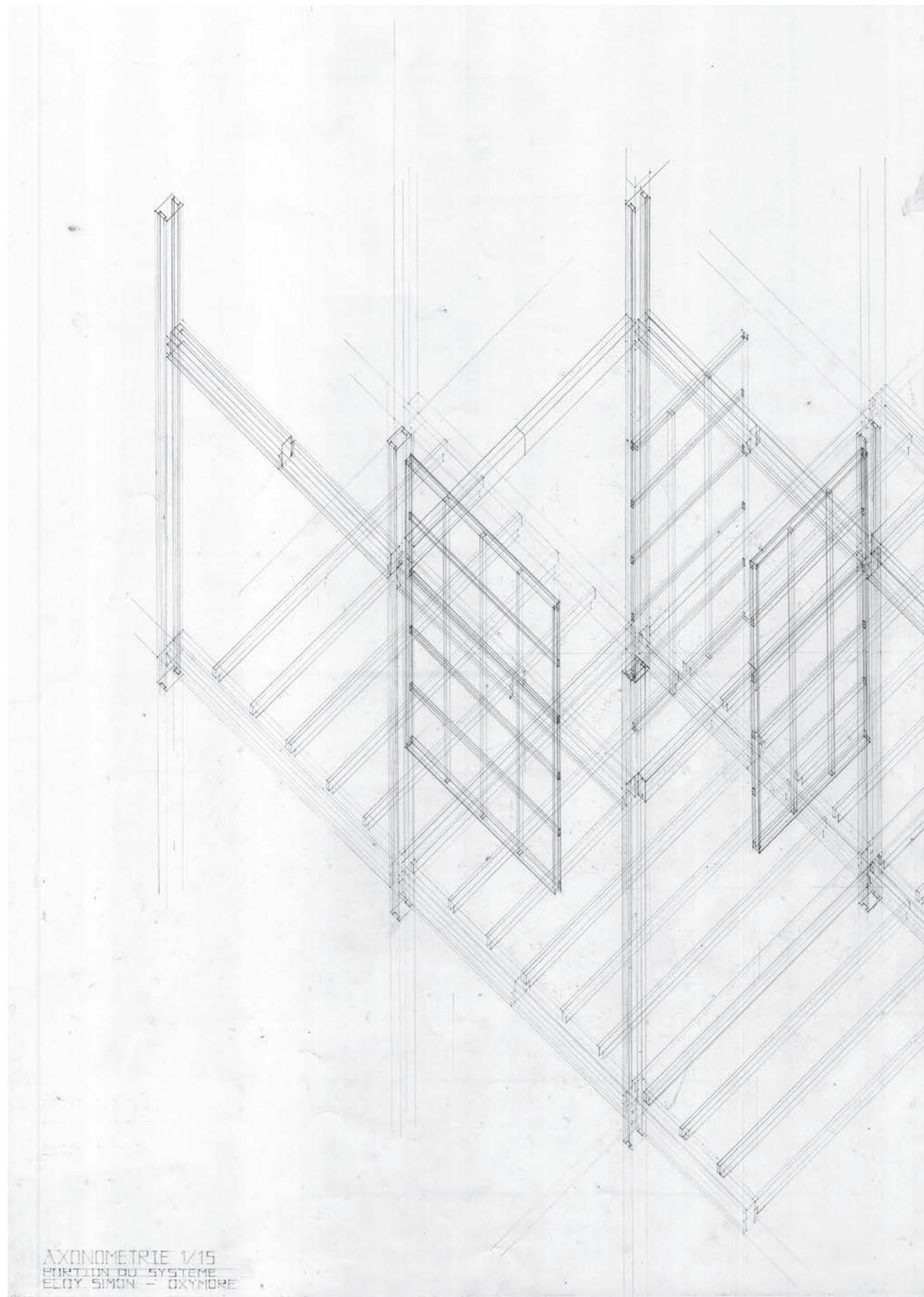


Aéro-Club Roland Garros - Jean Prouvé
prototypes of plywood sandwich panels
Halle Bleue, Fribourg

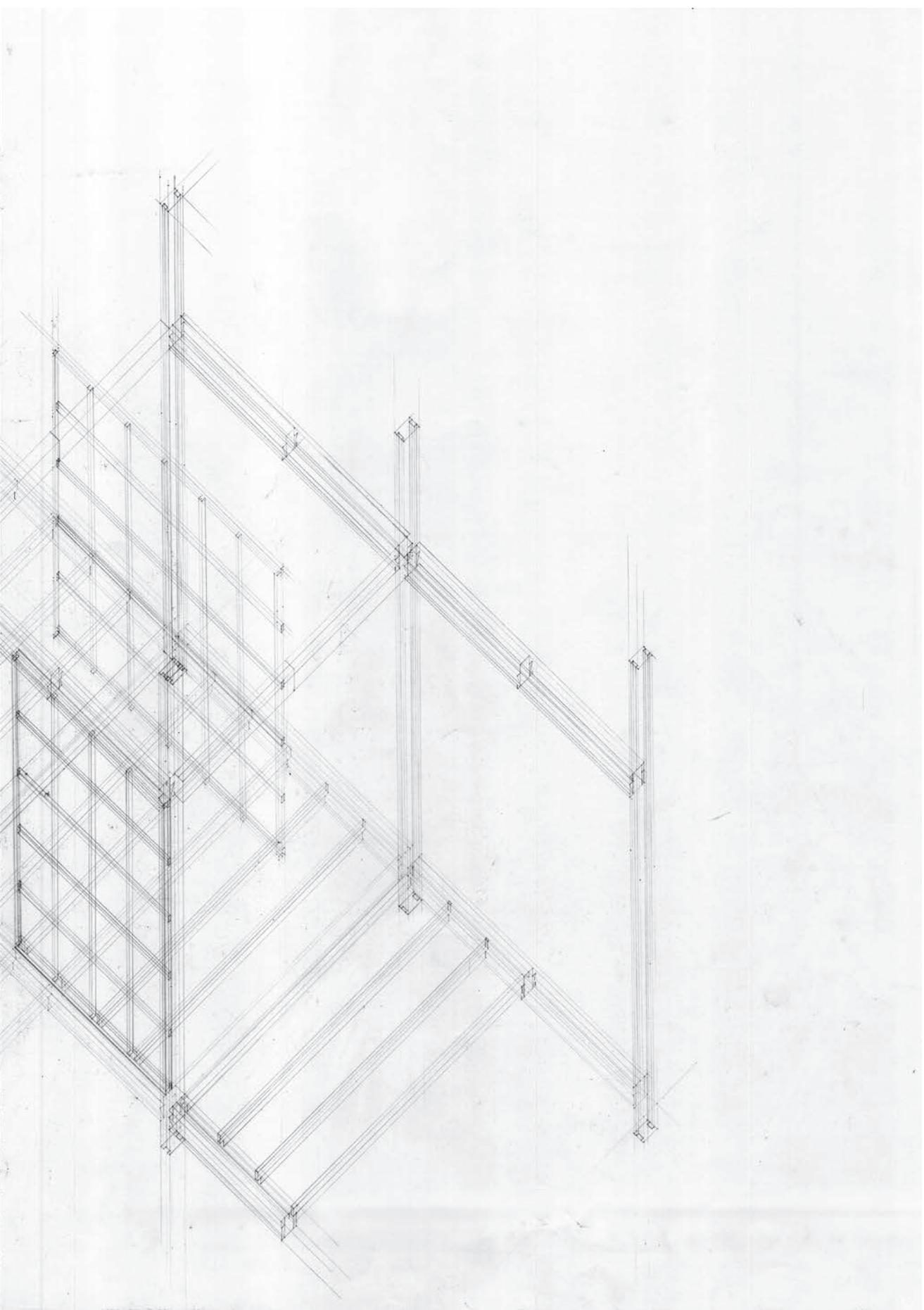




Koen Wintermann
project drawing 1:20, 1:10, 1:2



AXONOMETRIE 1/15
PORTION DU SYSTEME
ELIOT SIMON - OXYMORE

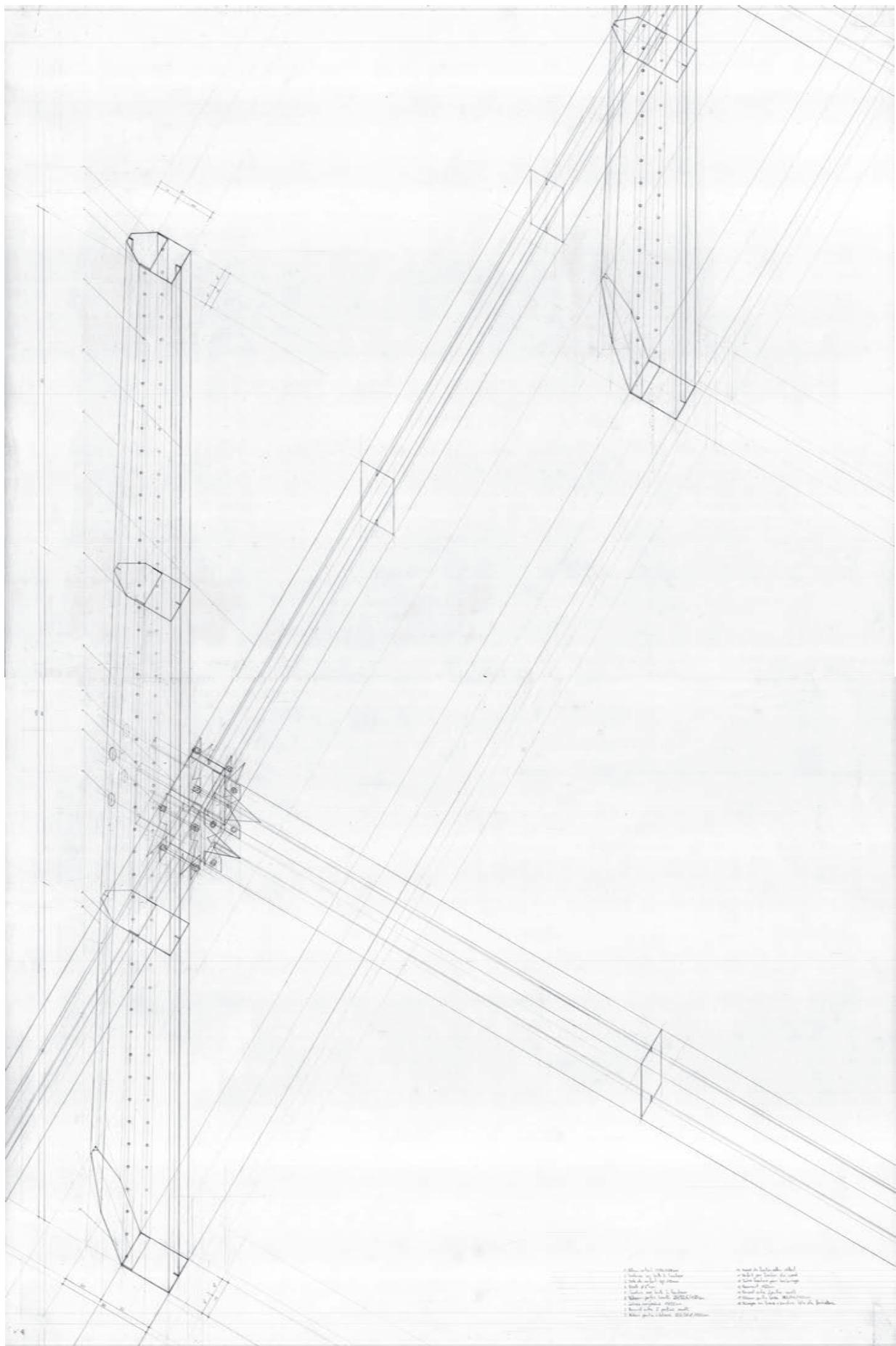


Simon Eloy
project drawing 1:15

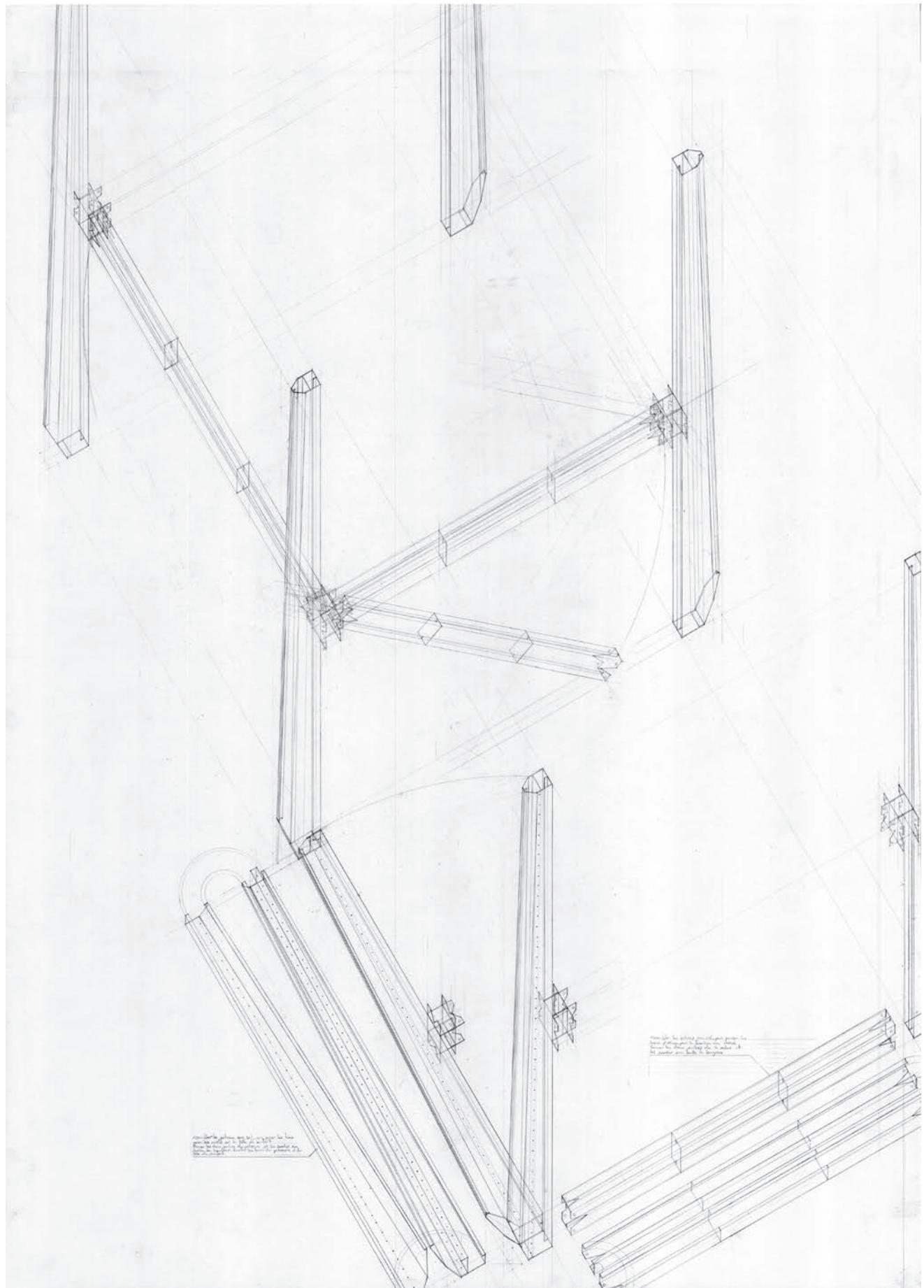
MAISON DU PEUPLE, CLICHY, 1936-39



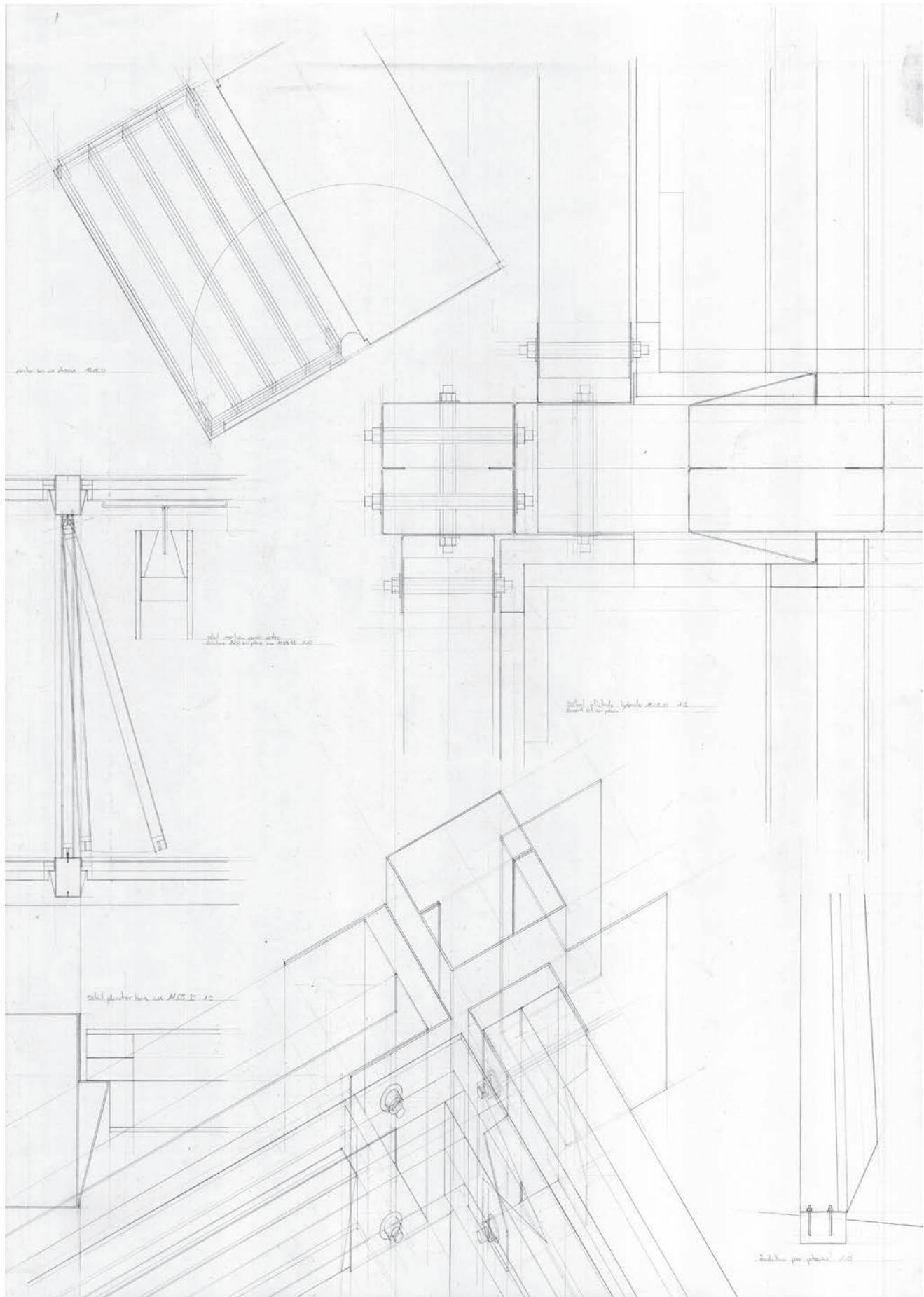
Maison du Peuple - Jean Prouvé
prototype of structure, Killian Bournoud, Thomas Gétaz, Samy Vincent
Halle Bleue, Fribourg



Aéro-Club Roland Garros - Jean Prouvé
analytical drawing, Killian Bouroud

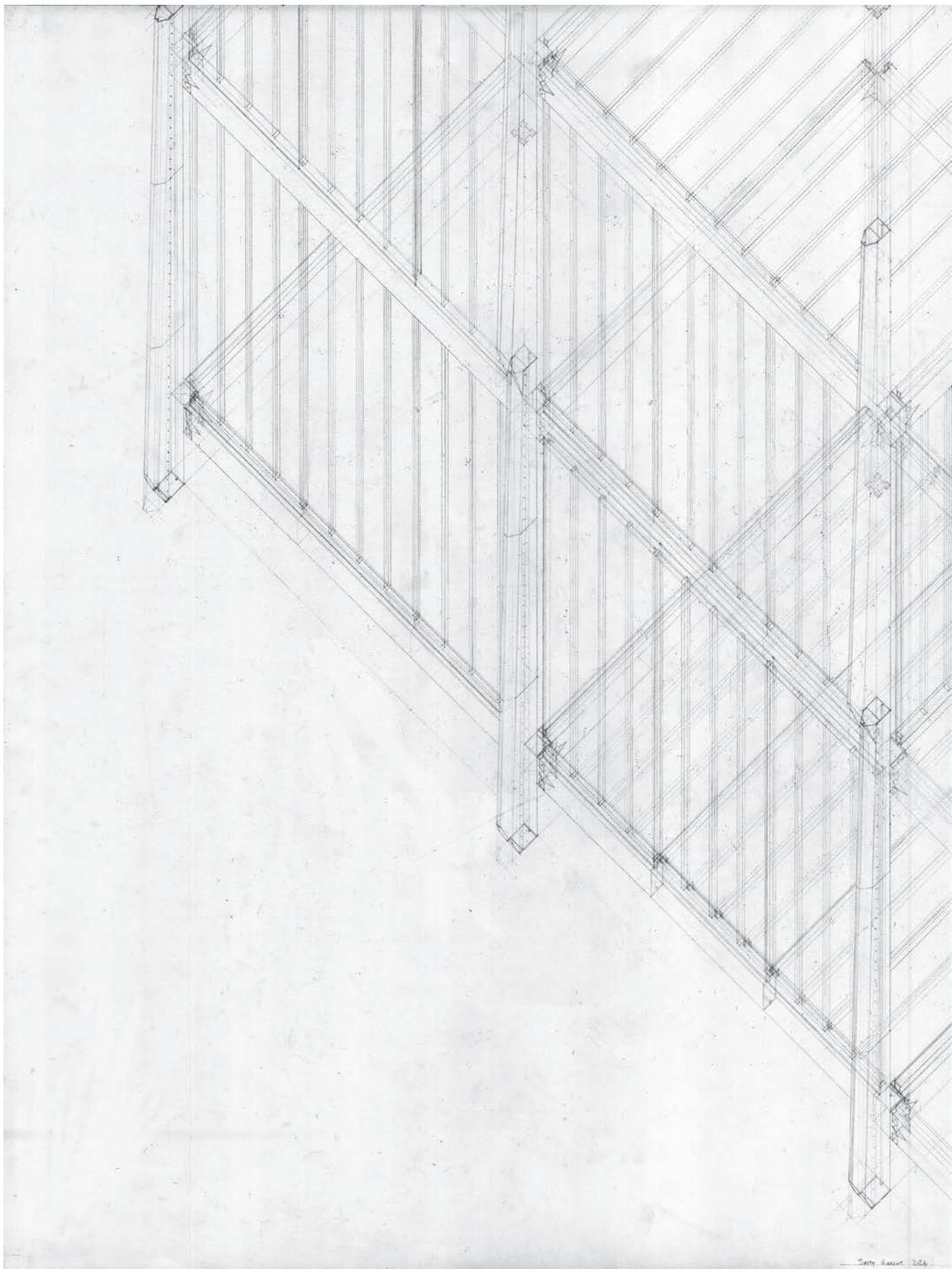


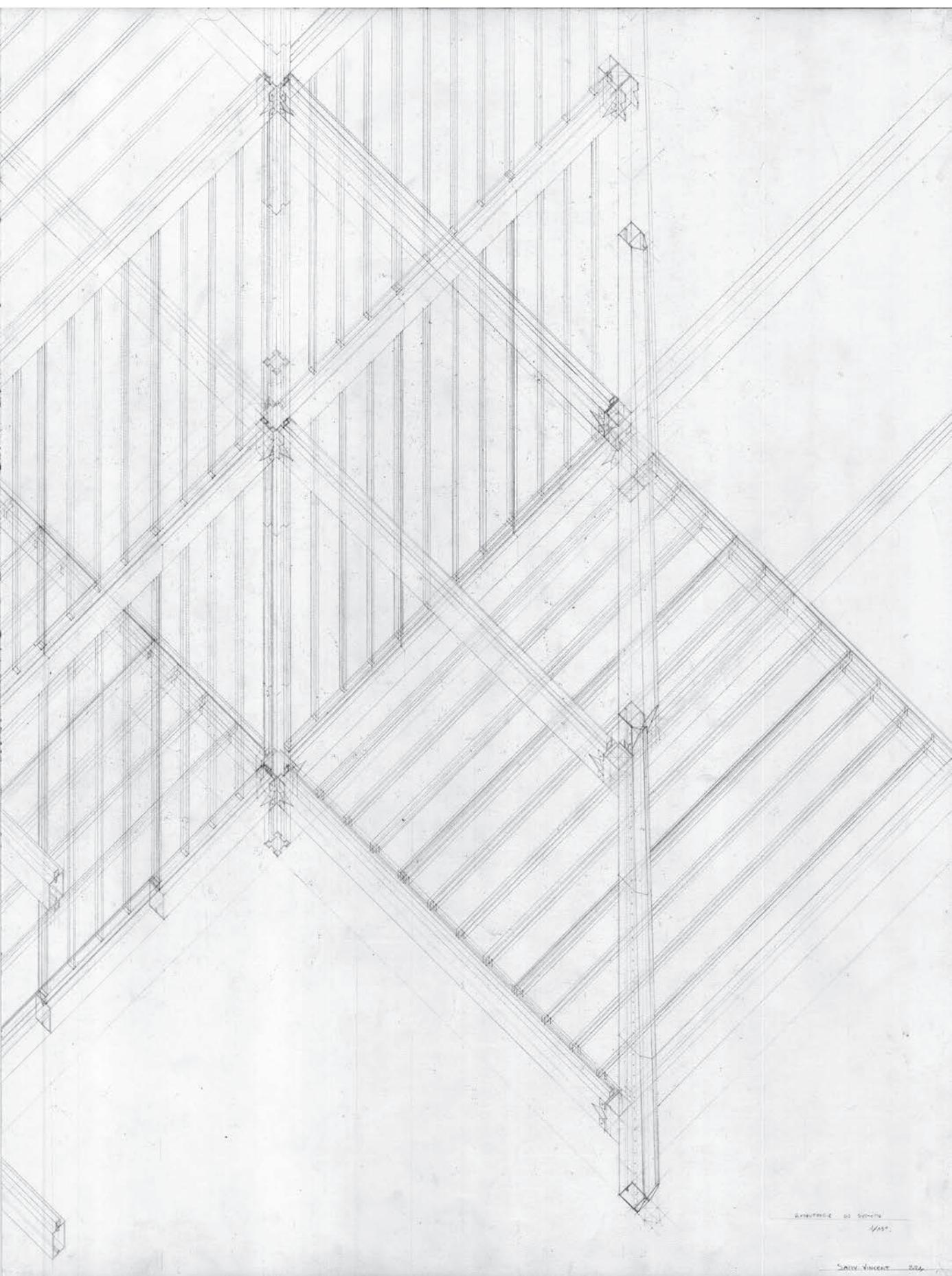
Aéro-Club Roland Garros - Jean Prouvé
analytical drawing, Killian Bourouaud



Killian Bourroud
project drawing 1:10

Samy Vincent
project drawing 1:2



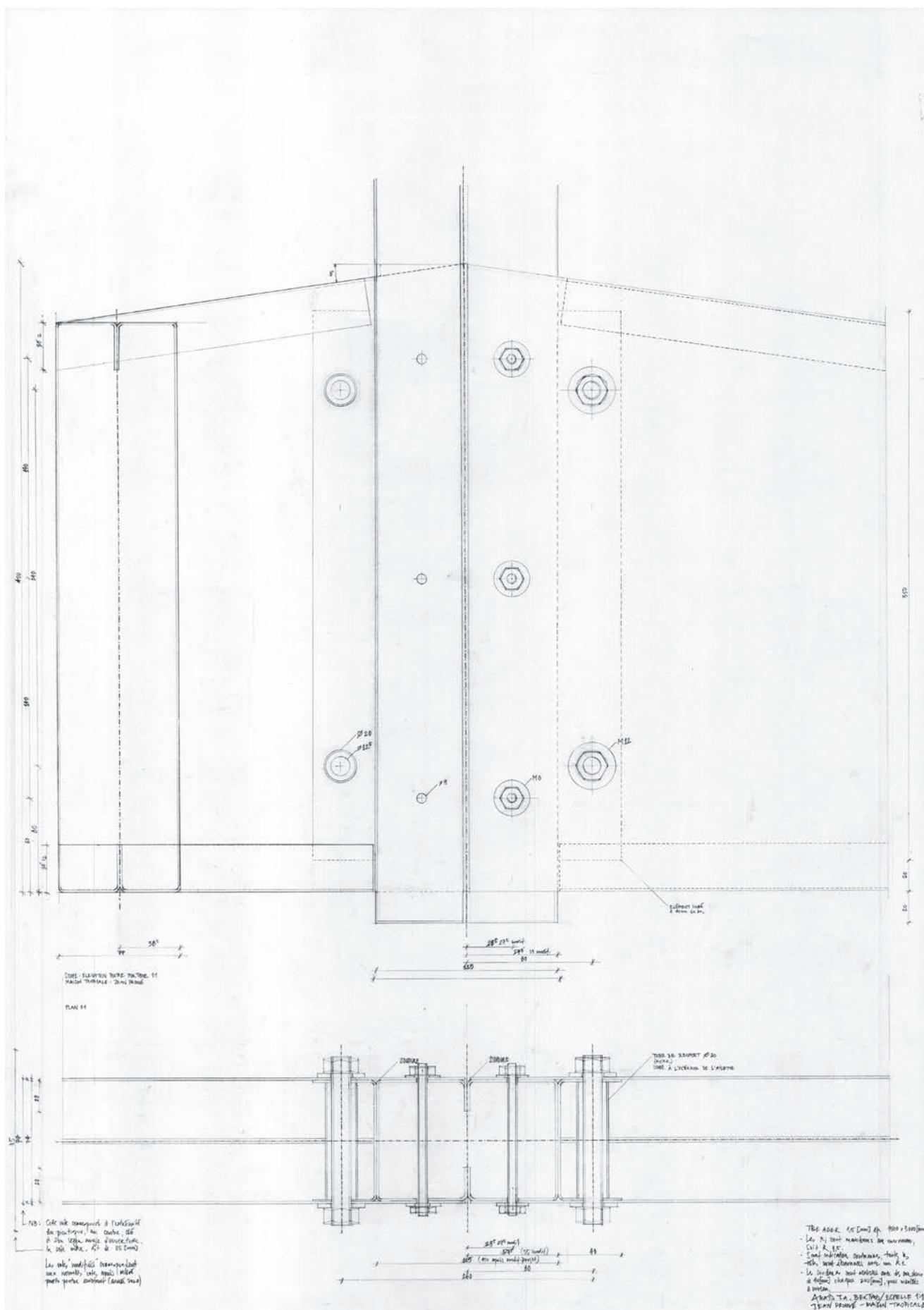


Samy Vincent
project drawing 1:50

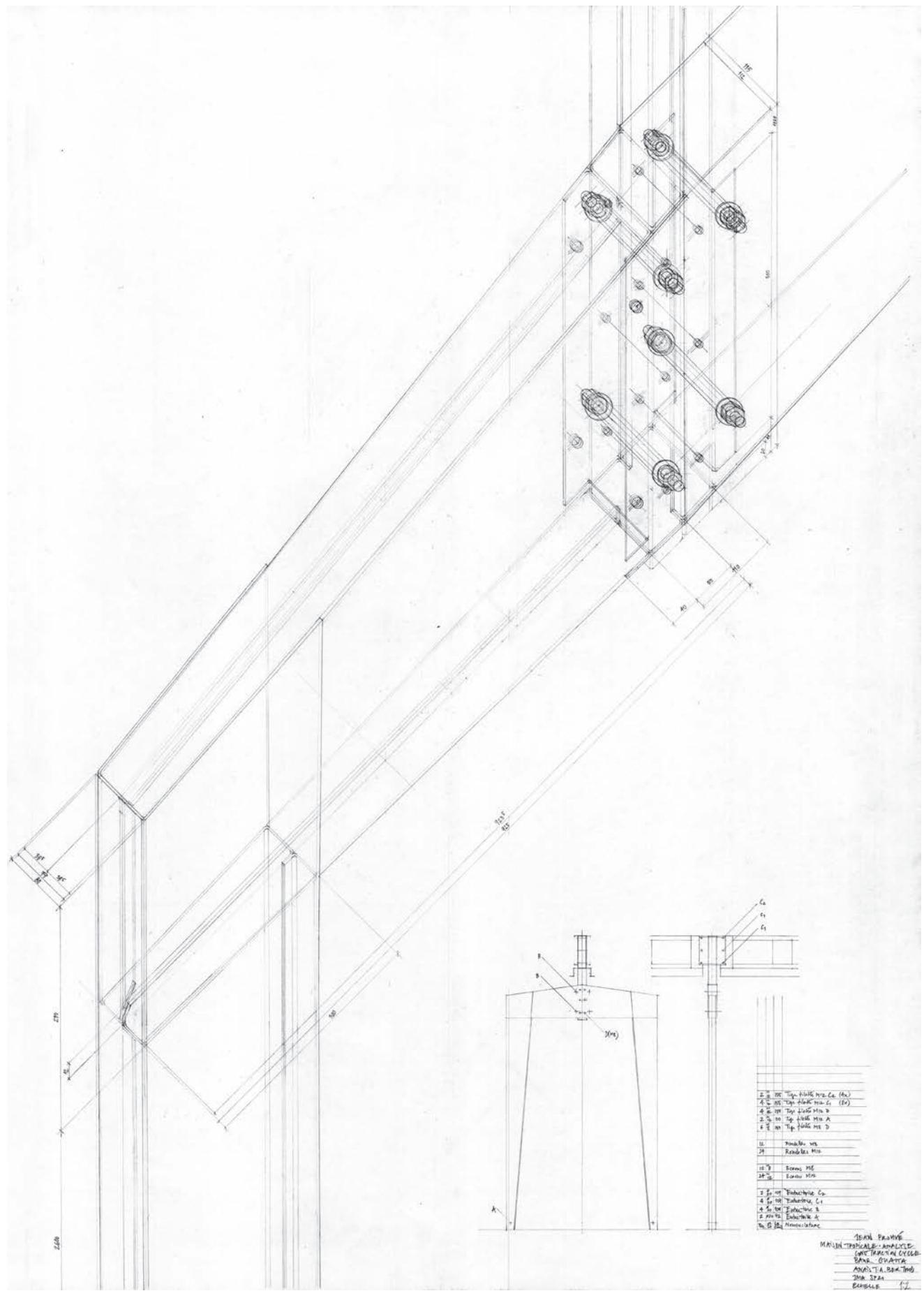
MAISON TROPICALE, NIAMEY, 1949-52



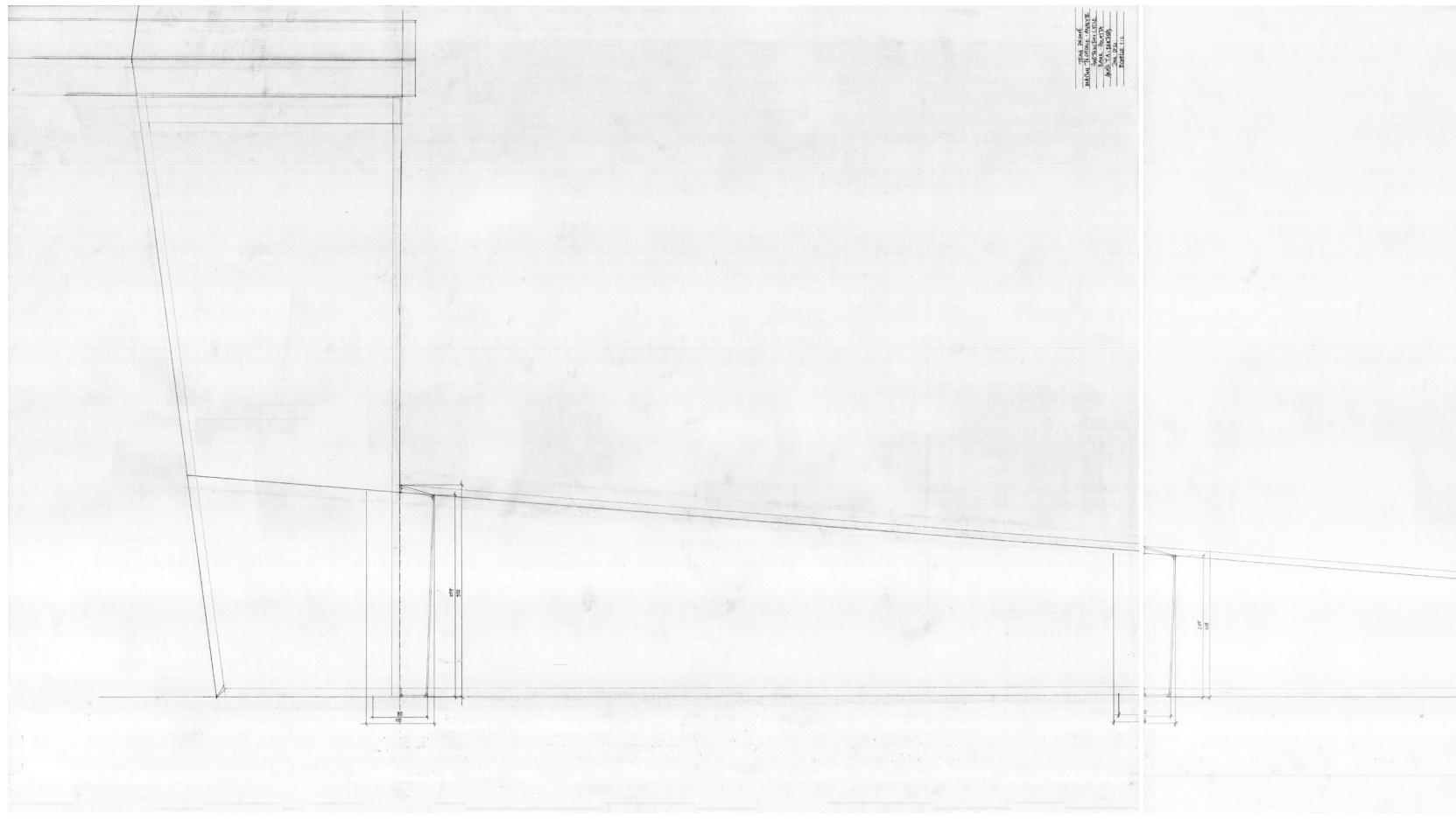
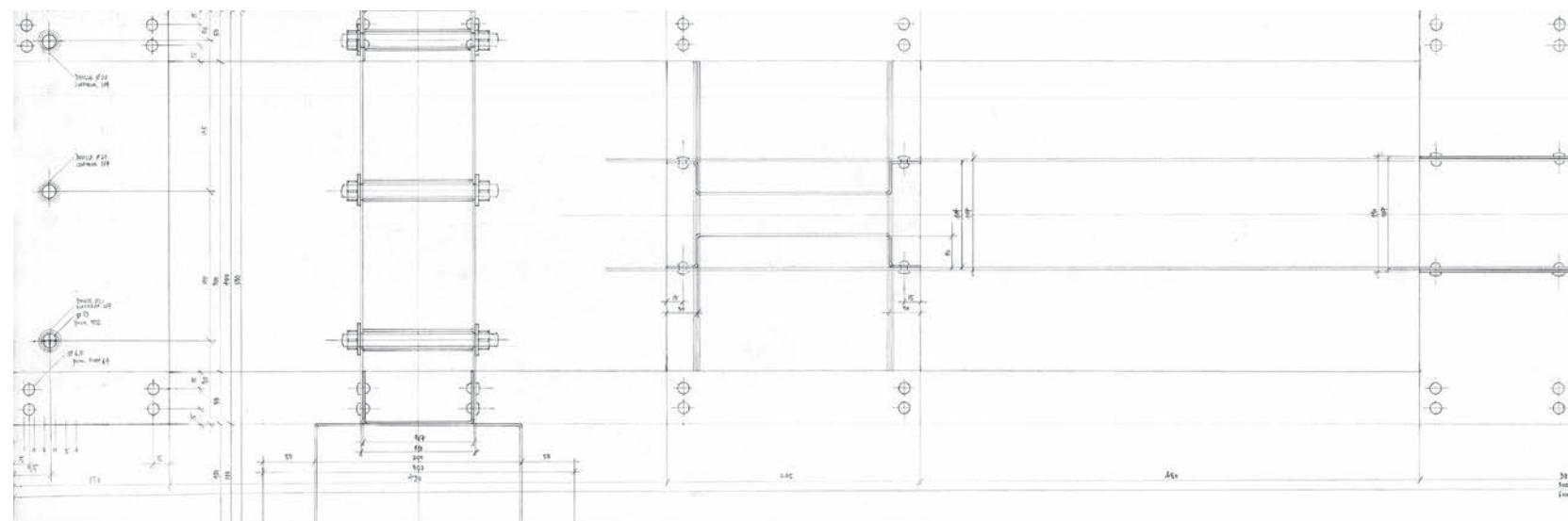
Maison Tropicale - Jean Prouvé
prototype of structure, Anaïs Berthod, Egzon Reka, Lencha Shan
Halle Bleue, Fribourg

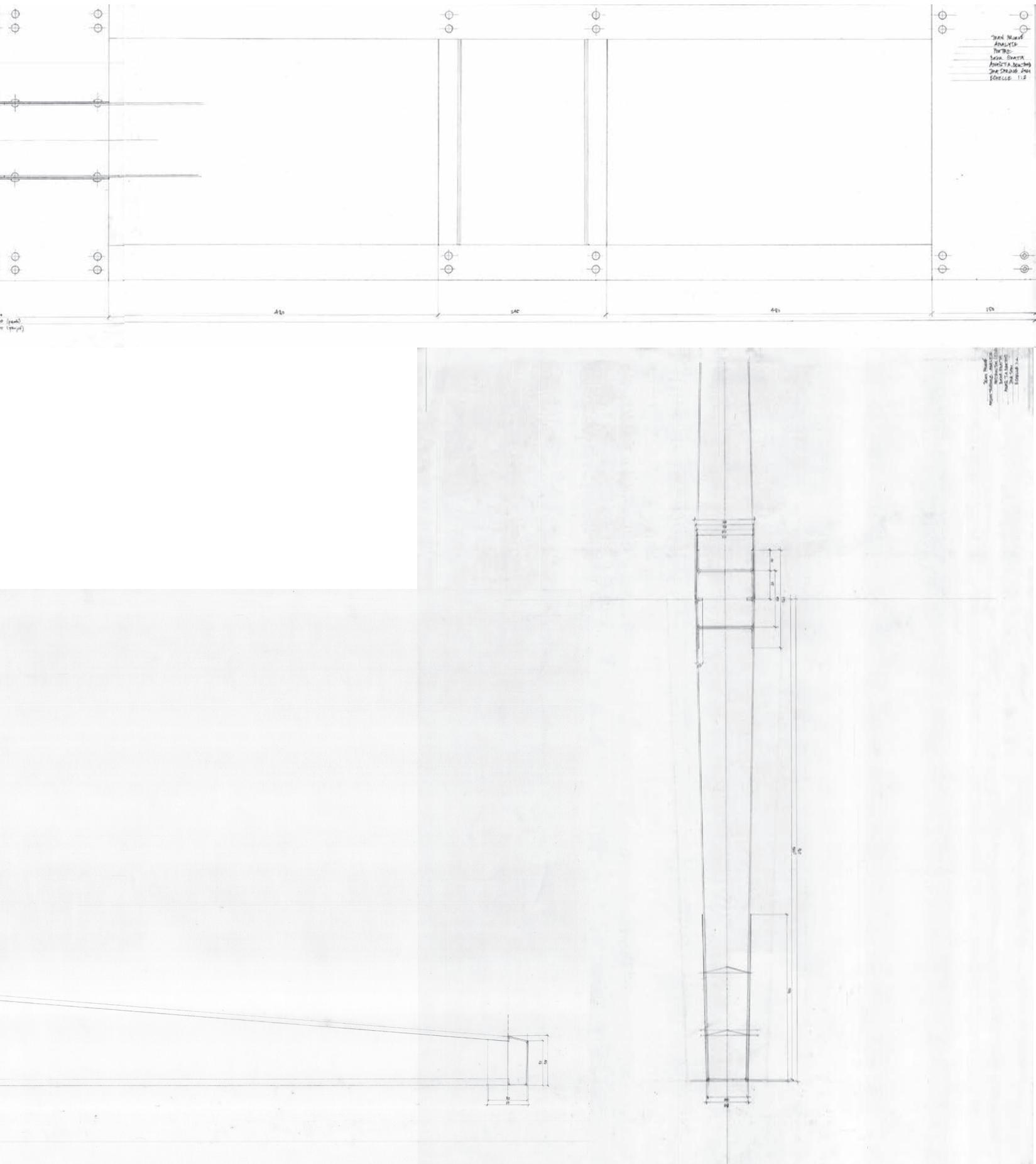


Maison Tropicale - Jean Prouvé
analytical drawing 1:2, Anaïs Berthod



Maison Tropicale - Jean Prouvé
analytical drawing 1:2, Anaïs Berthod



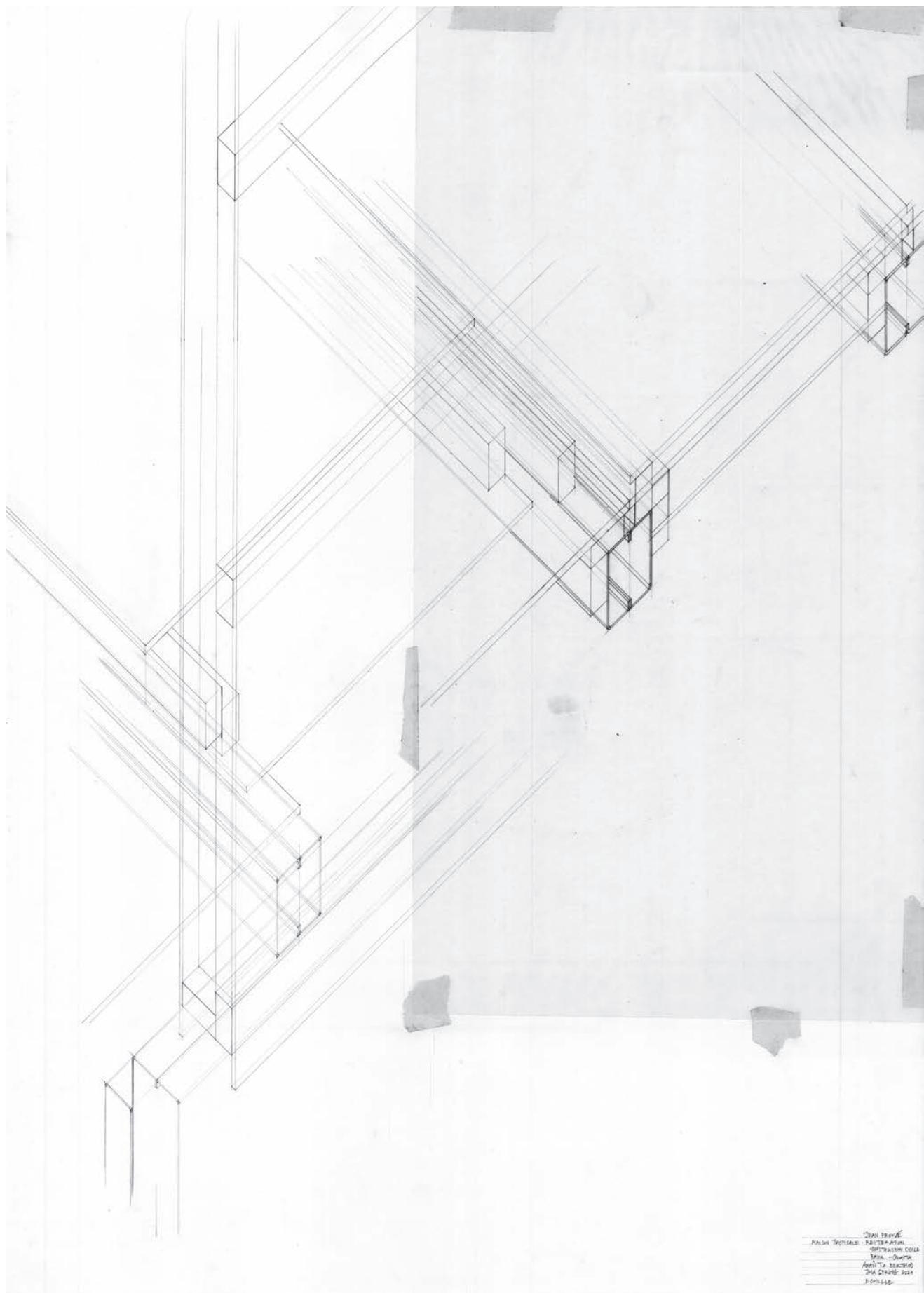


Maison Tropicale - Jean Prouvé
fabrication drawings at 1:2 scale, Anaïs Berthod



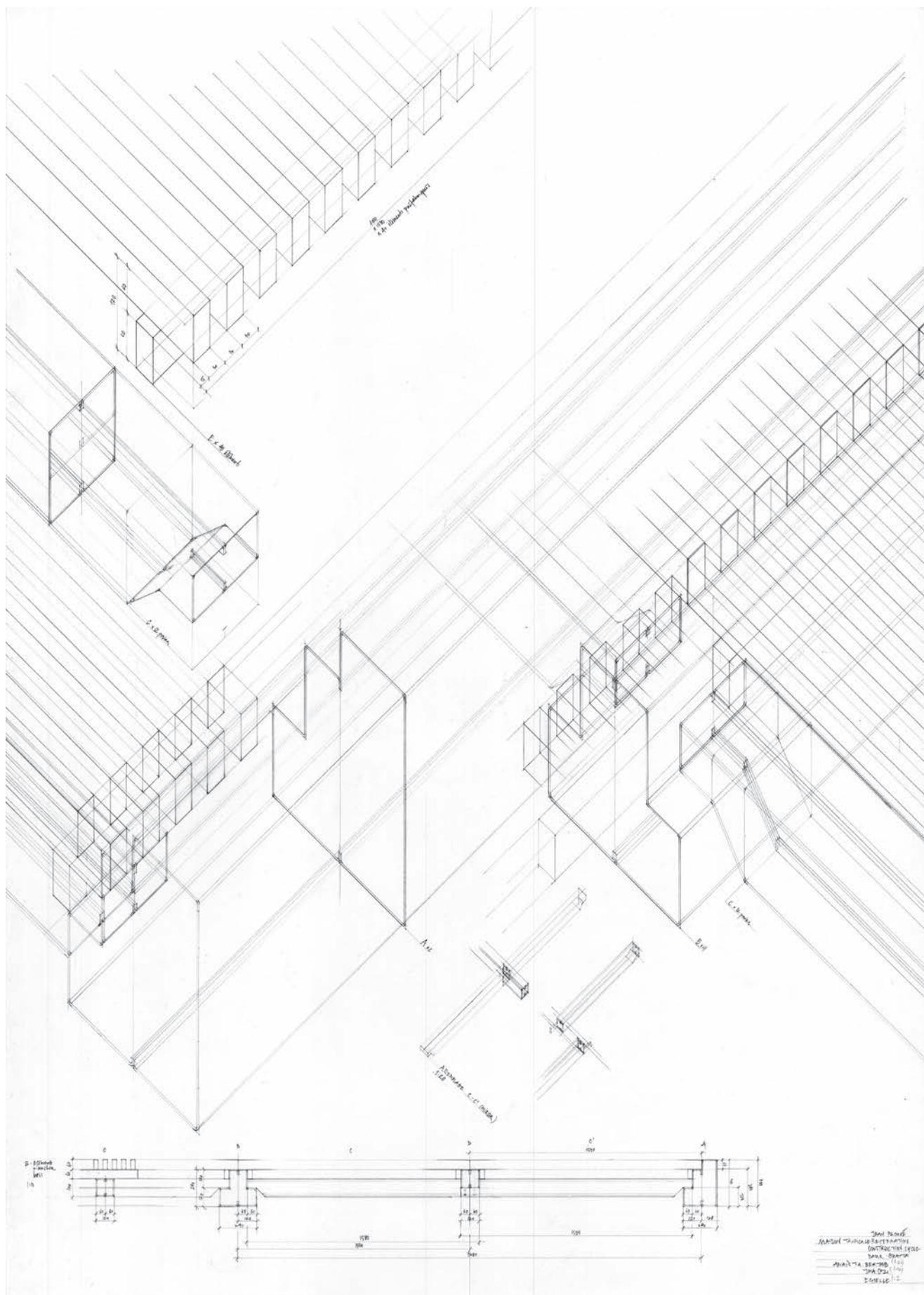


Maison Tropicale - Jean Prouvé
prototype of structure, Anaïs Berthod, Egzon Reka, Lencha Shan
Halle Bleue, Fribourg

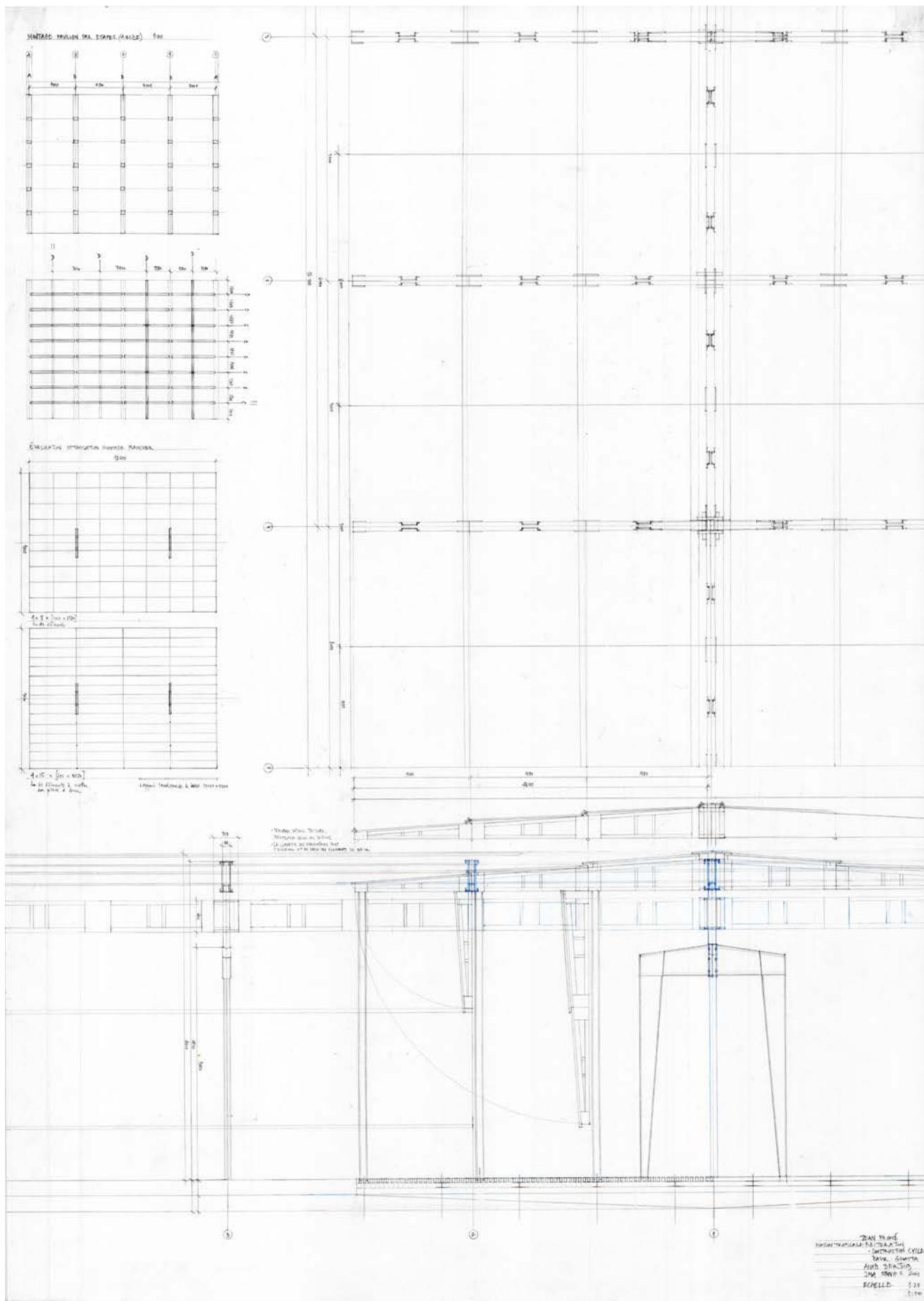


TEAM PROJET
MAISON TROPICALE - RÉALISATION
MÉTIER : ARCHITECTURE
TYPE : LOGEMENT
LOCALISATION :
DATE : 2014-2015
DRA : GREGORY DIAZ
B.DR : LUCAS

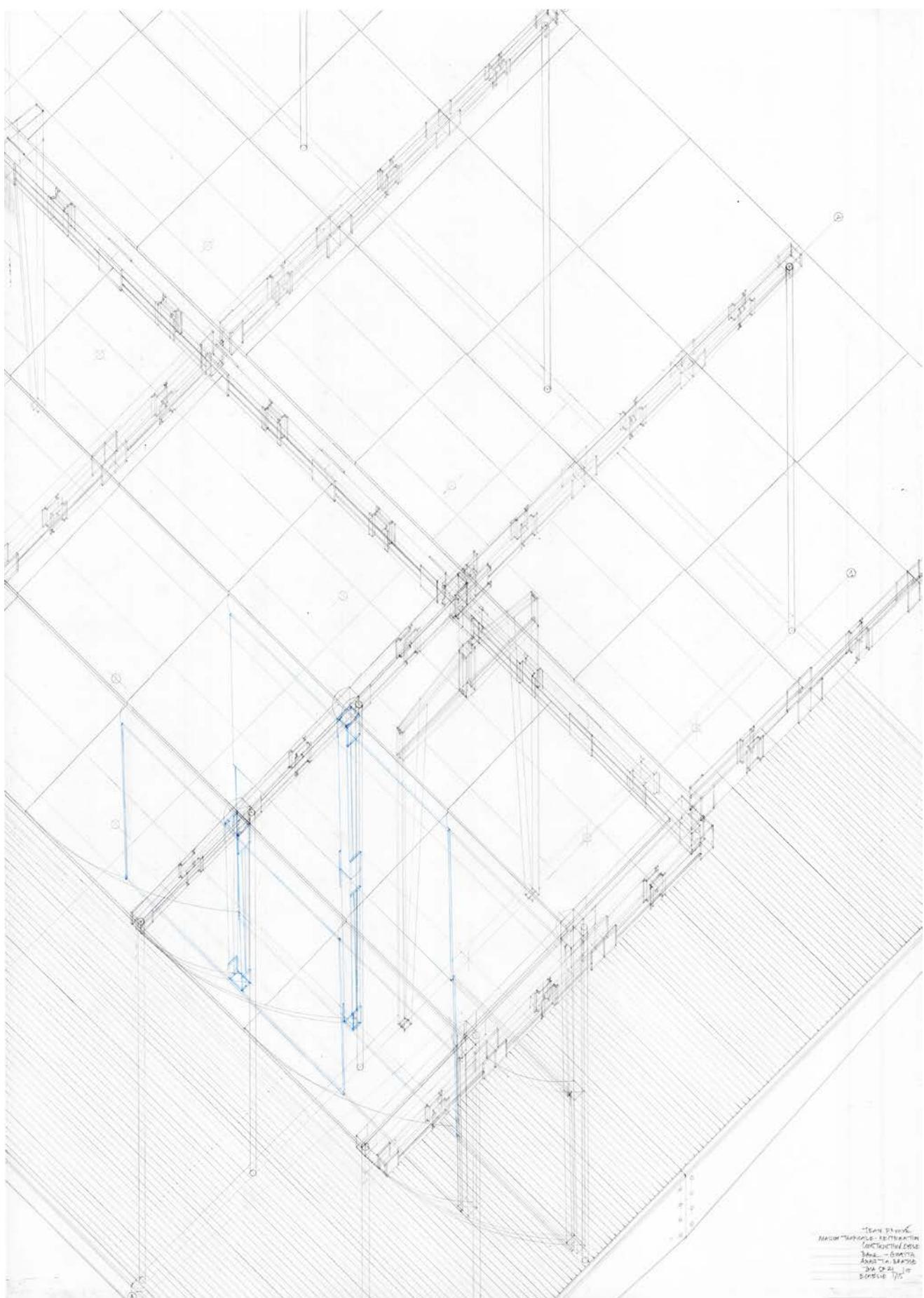
Anaïs Berthod
project drawing 1:2



Anaïs Berthod
project drawing 1:2



Anaïs Berthod
project drawing 1:20, 1:100

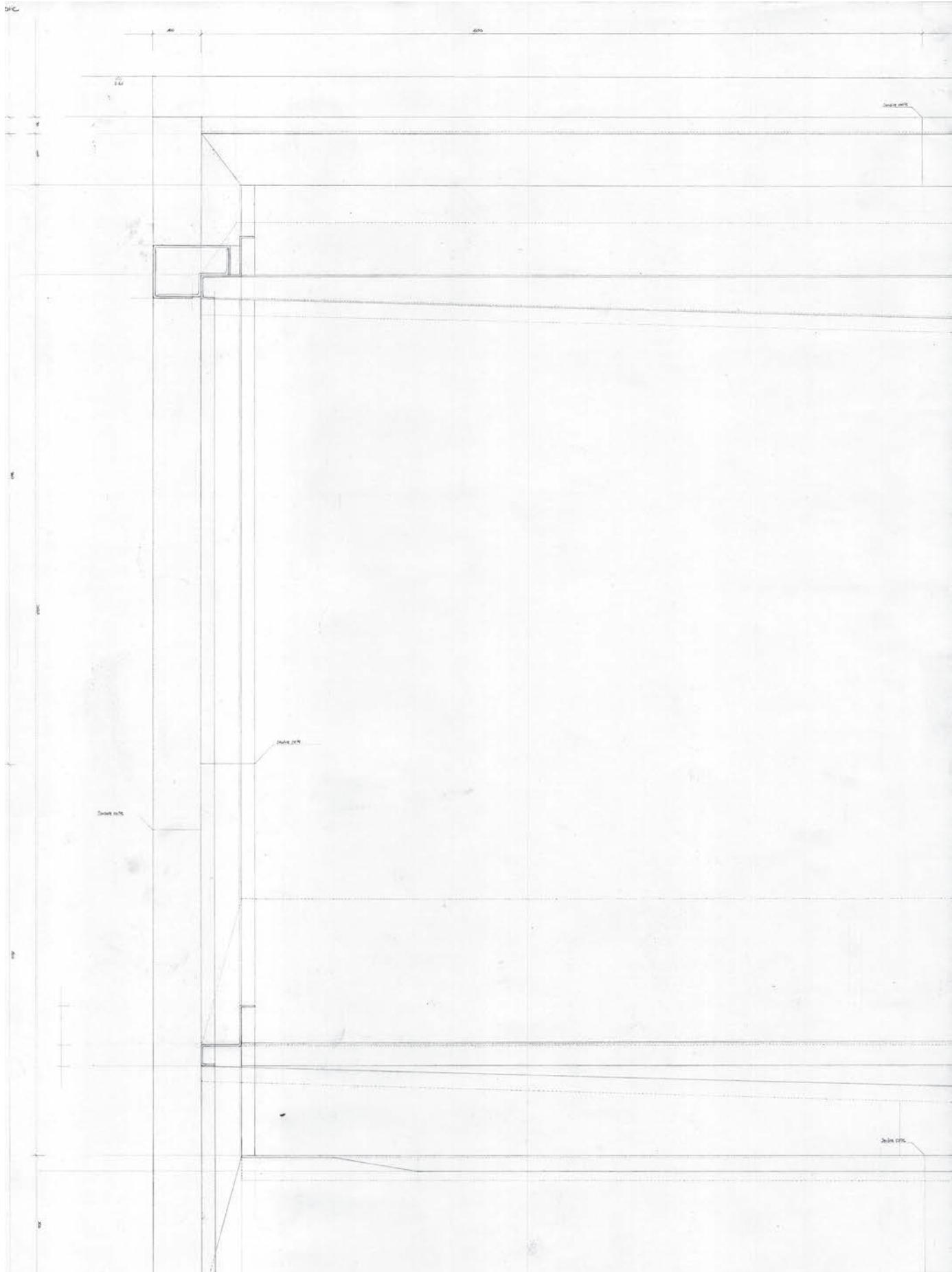


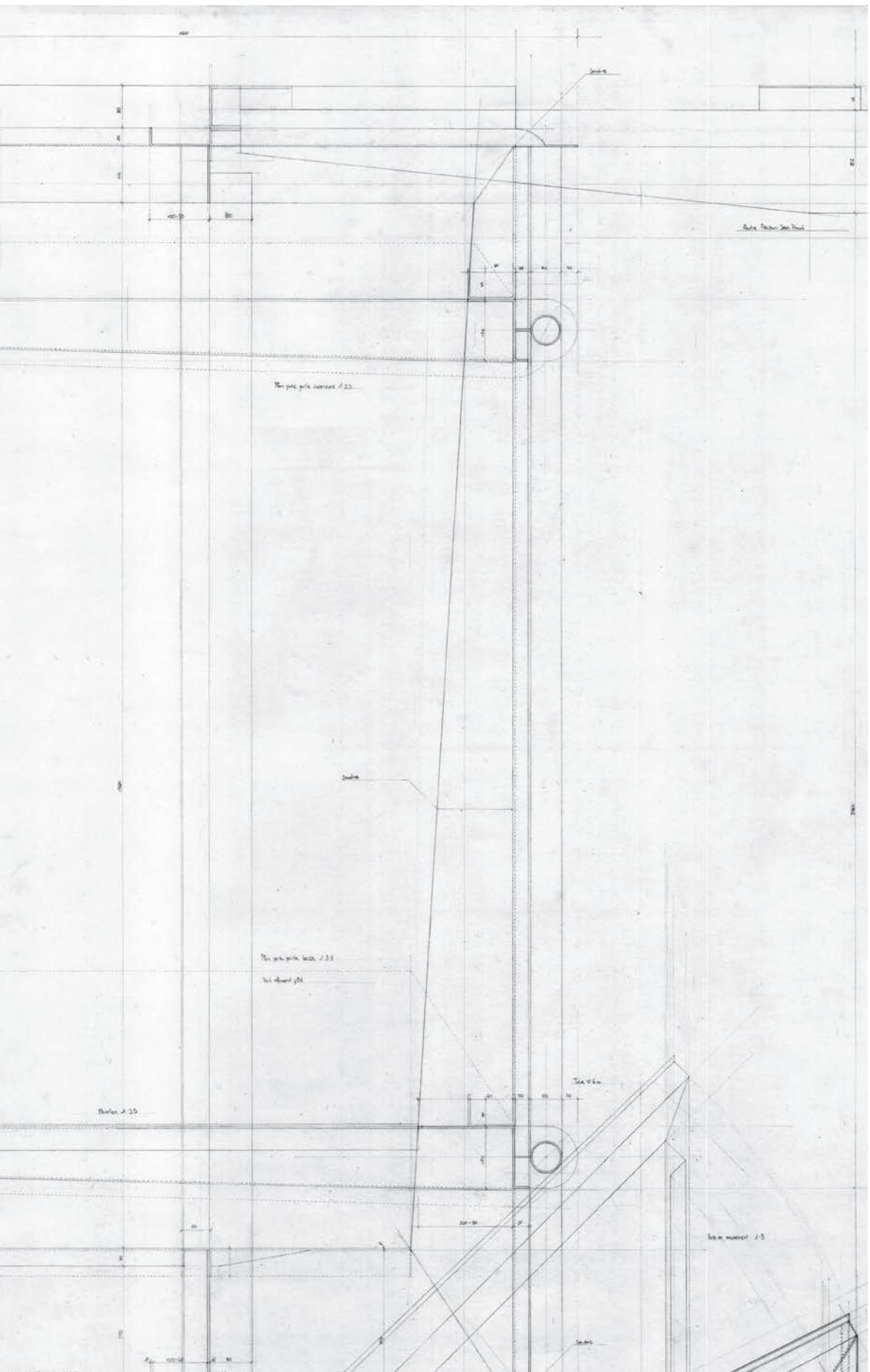
Anaïs Berthod
project drawing 1:15

MAISON JEAN PROUVÉ, NANCY, 1952-54

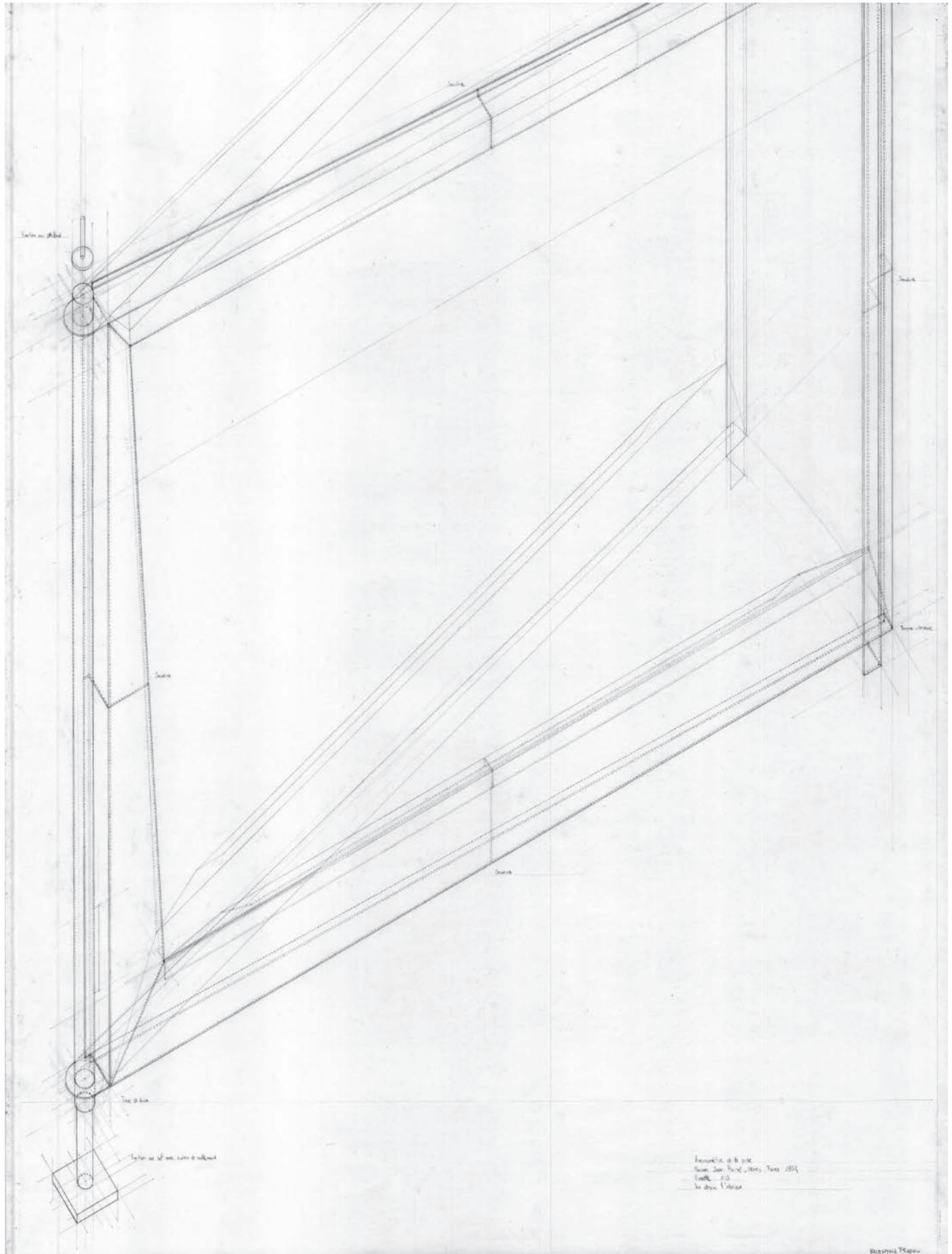


Maison Jean Prouvé - Jean Prouvé
prototype of structure, Valentina Frkovic, Vincent Nicollin, Gregory Perruchoud
Halle Bleue, Fribourg

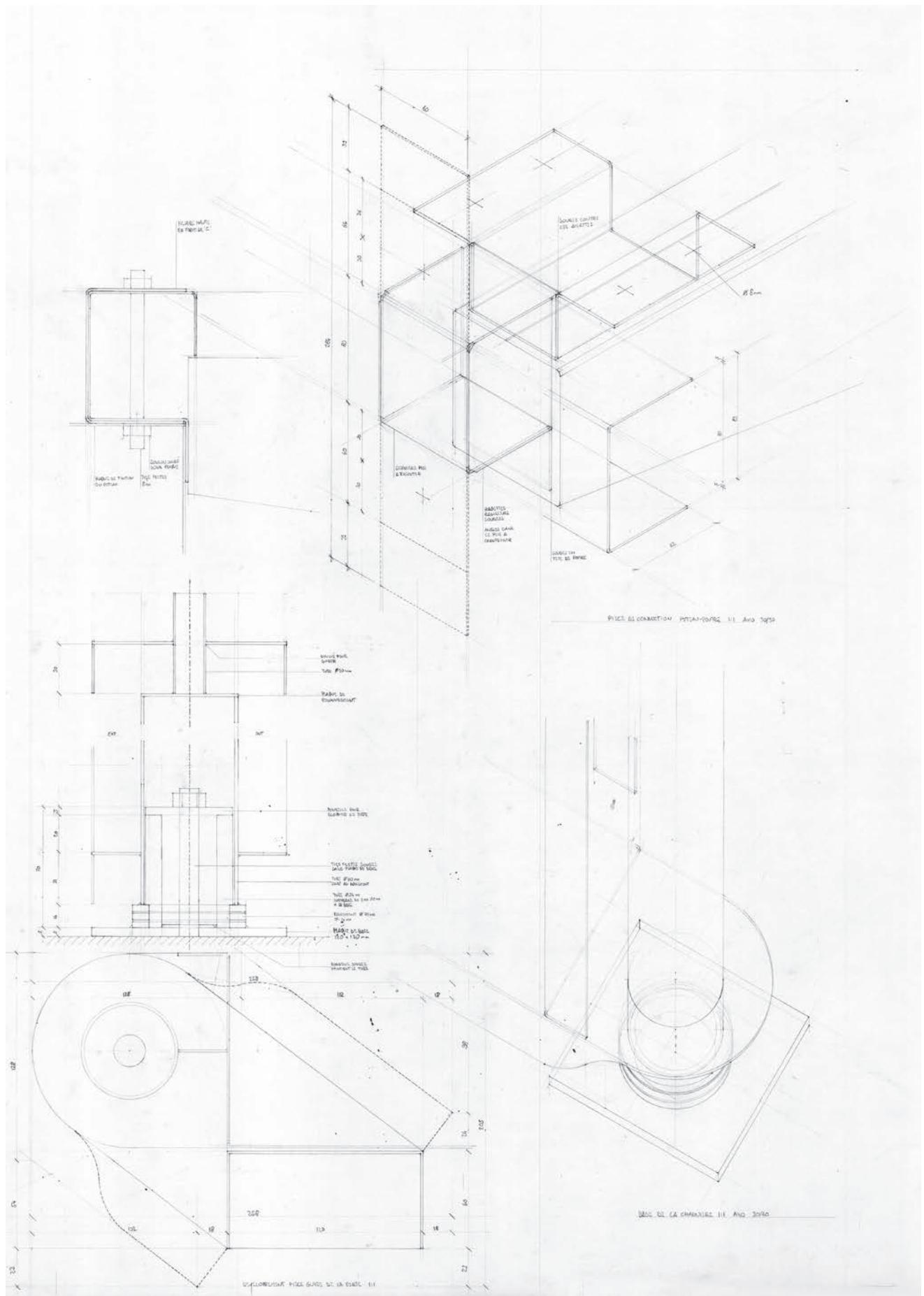




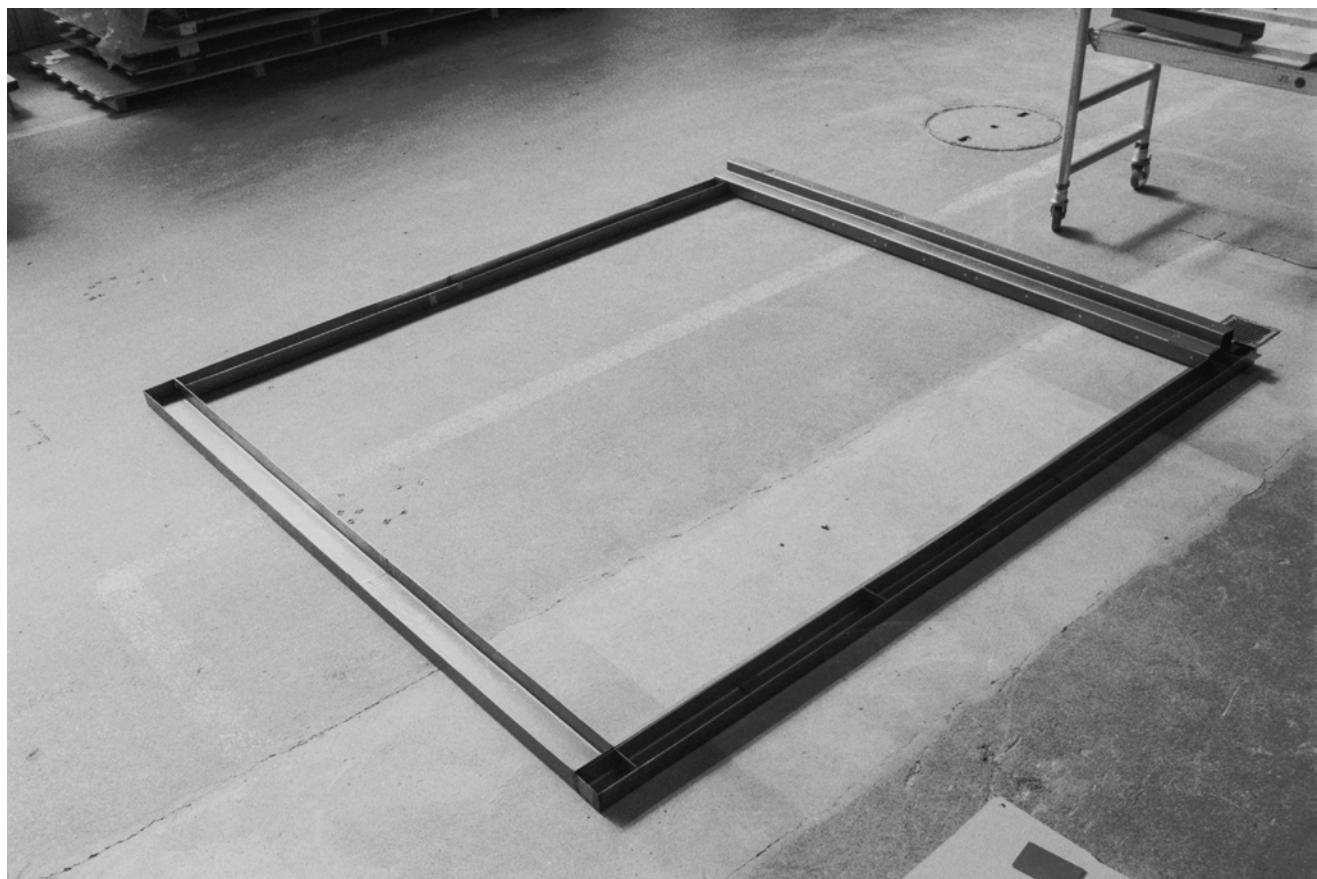
Maison Jean Prouvé - Jean Prouvé
analytical drawing 1:5, Valentina Frkovic



Maison Jean Prouvé - Jean Prouvé
analytical drawing 1:5, Valentina Frkovic

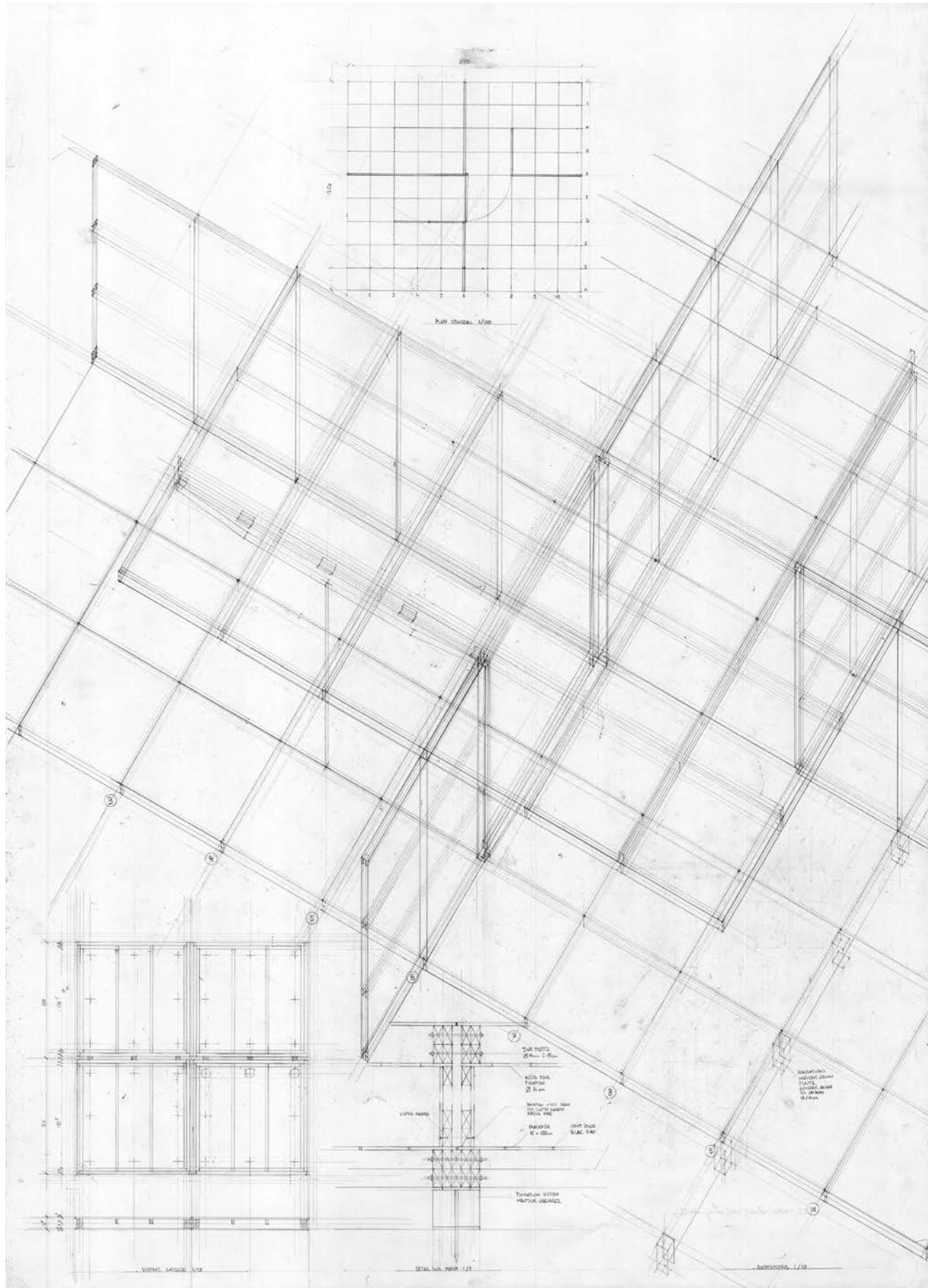


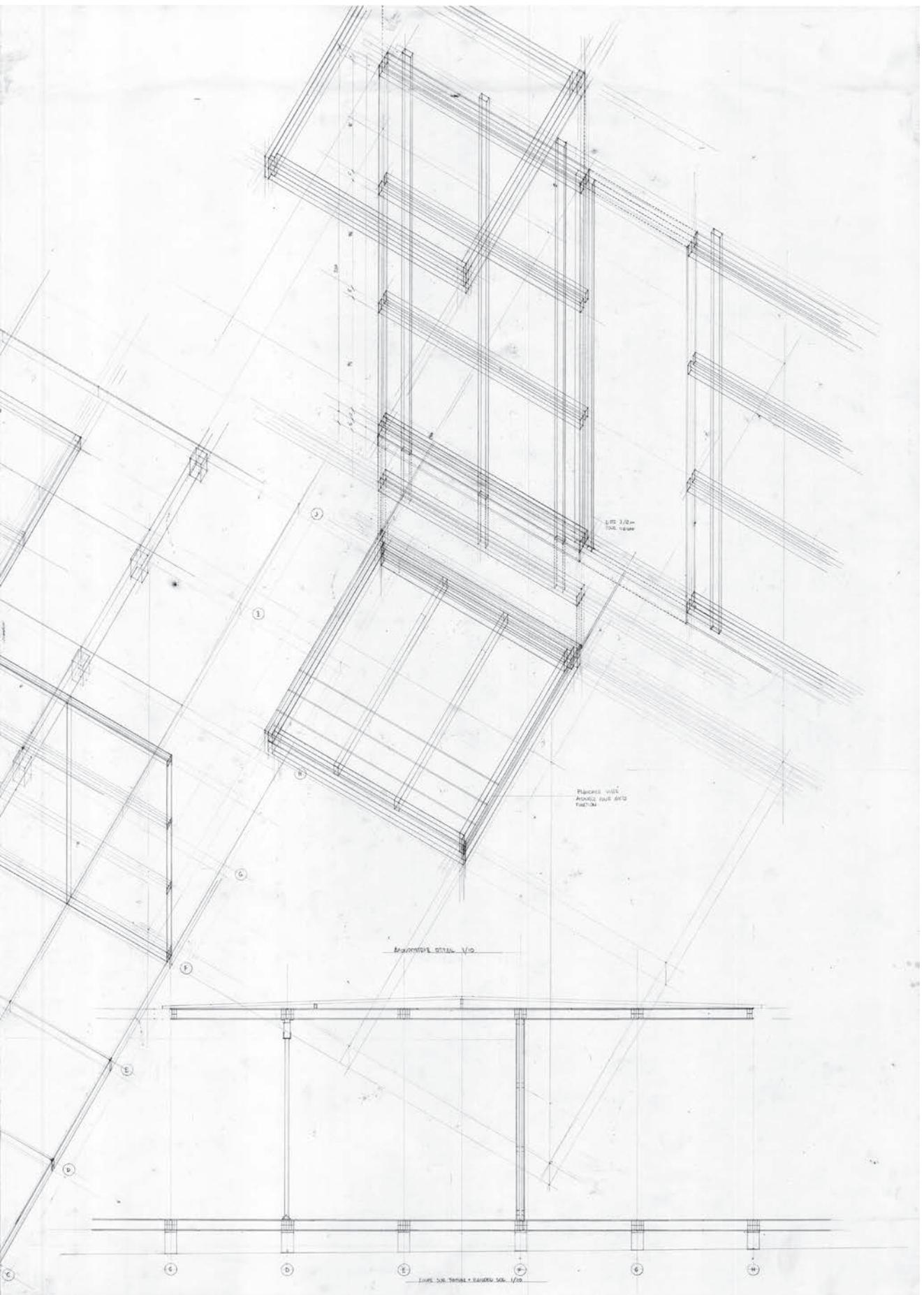
Maison Jean Prouvé - Jean Prouvé
analytical drawing 1:1, Vincent Nicollin





Maison Jean Prouvé - Jean Prouvé
doorframe prototype, Valentina Frkovic, Vincent Nicollin, Gregory Perruchoud
Halle Bleue, Fribourg



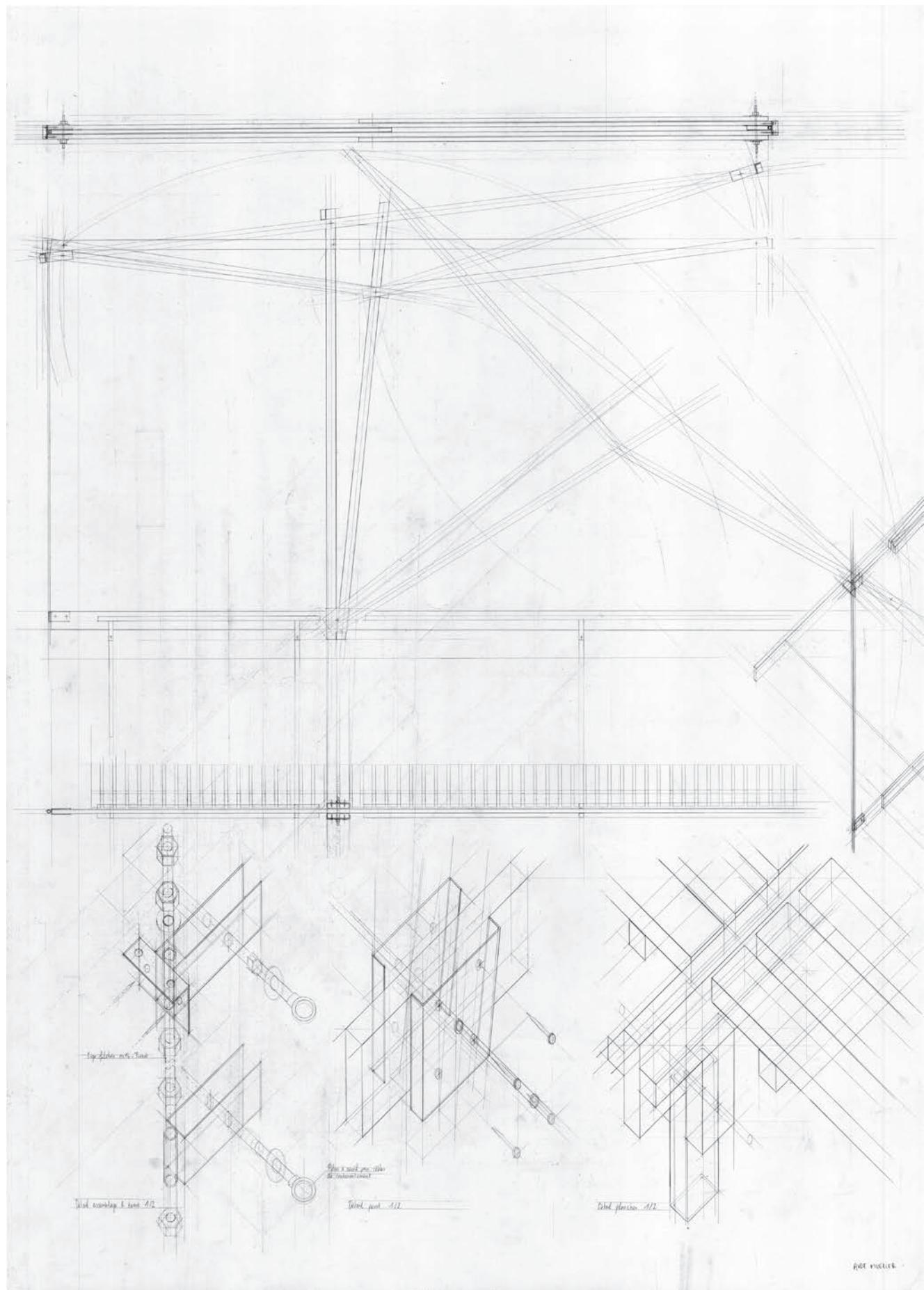


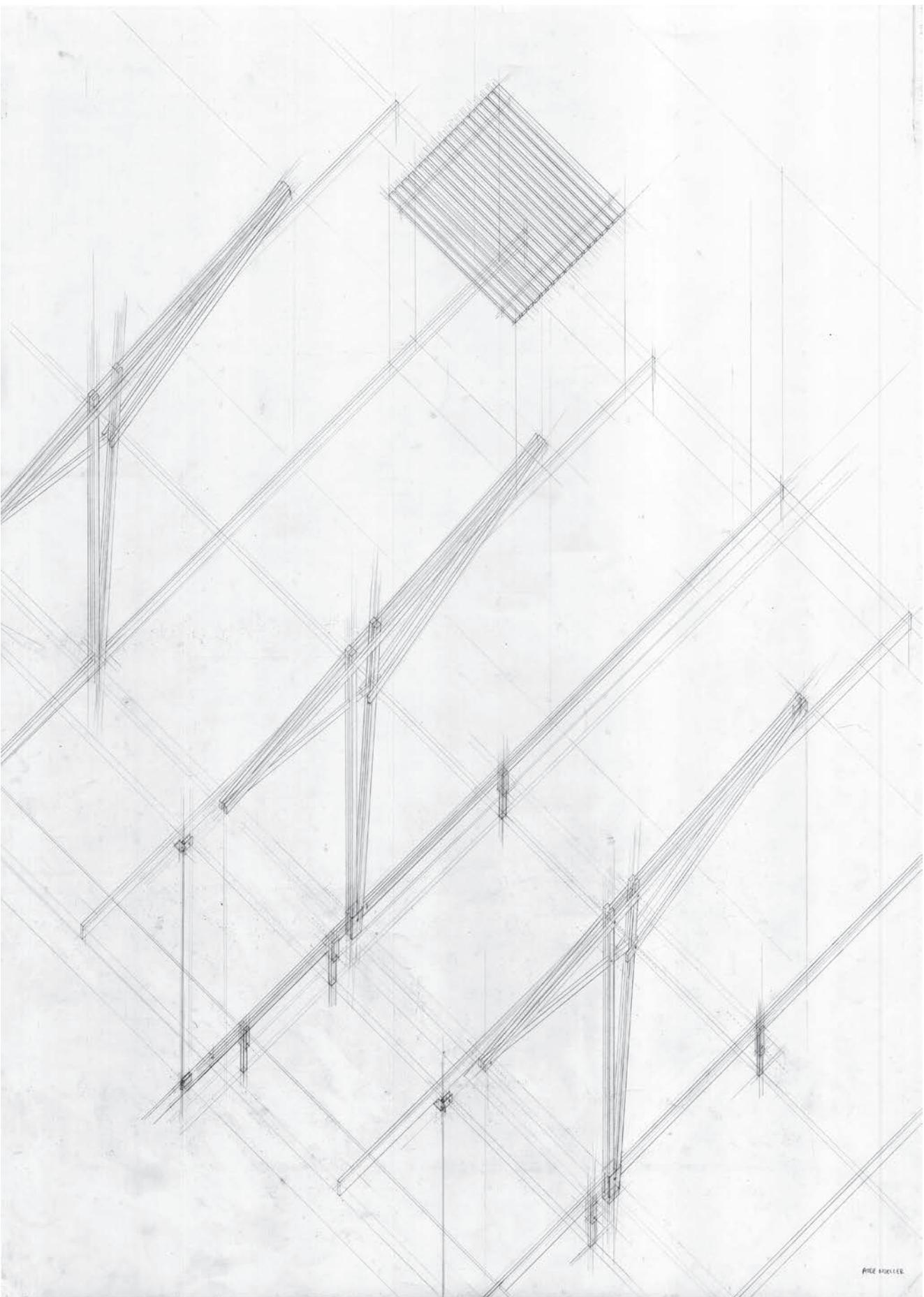
Vincent Nicolin
project drawing 1:20

ÉCOLE TEMPORAIRE, VILLEJUIF, 1956-57

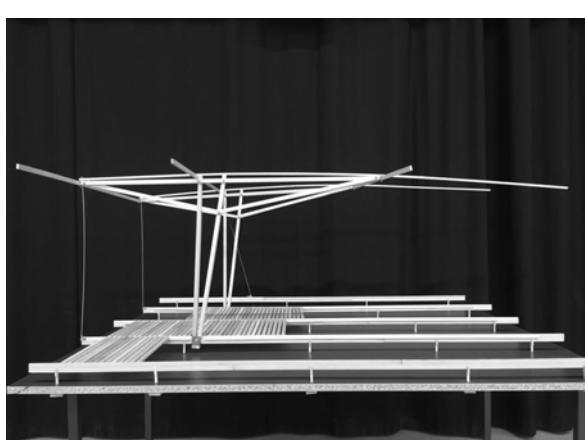
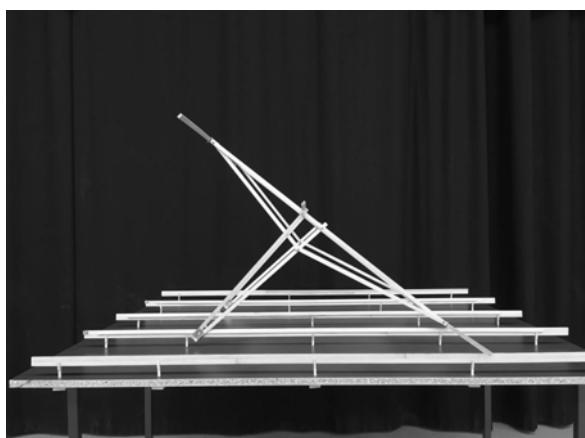


École Temporaire - Jean Prouvé
prototype of structure, Aude Mueller, Fabien Peter, Raoul Vallat
Halle Bleue, Fribourg

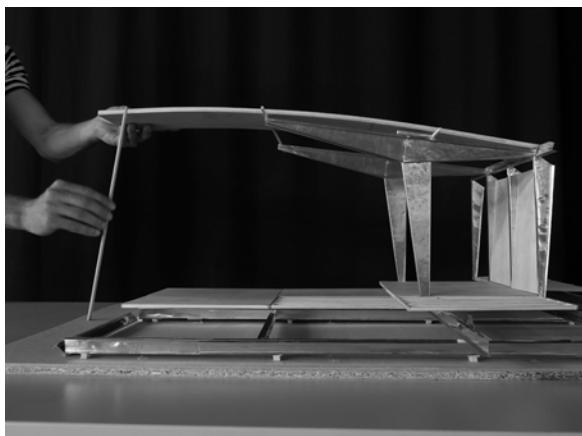
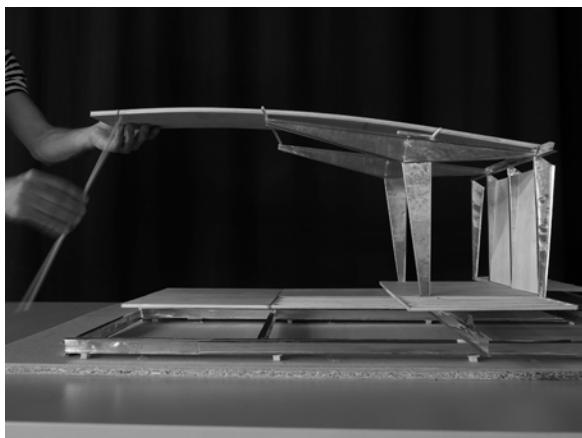
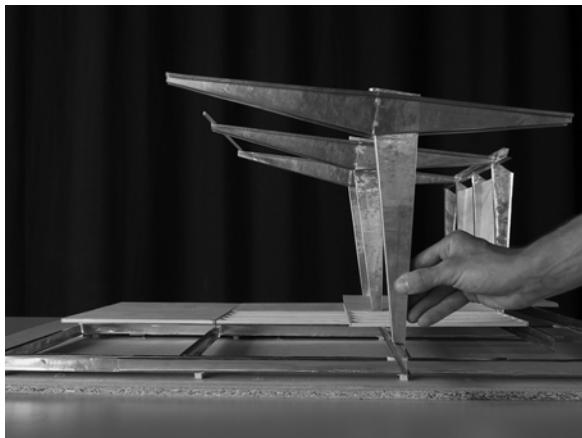
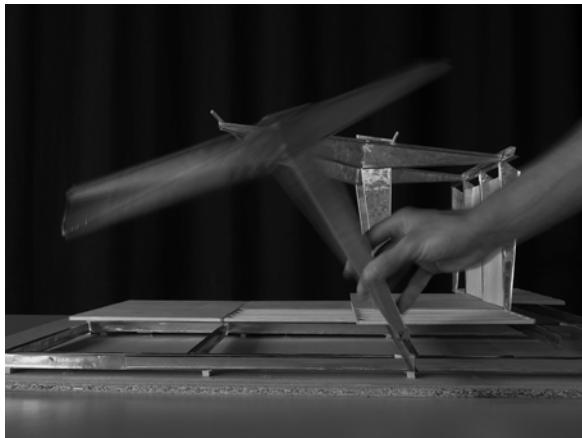




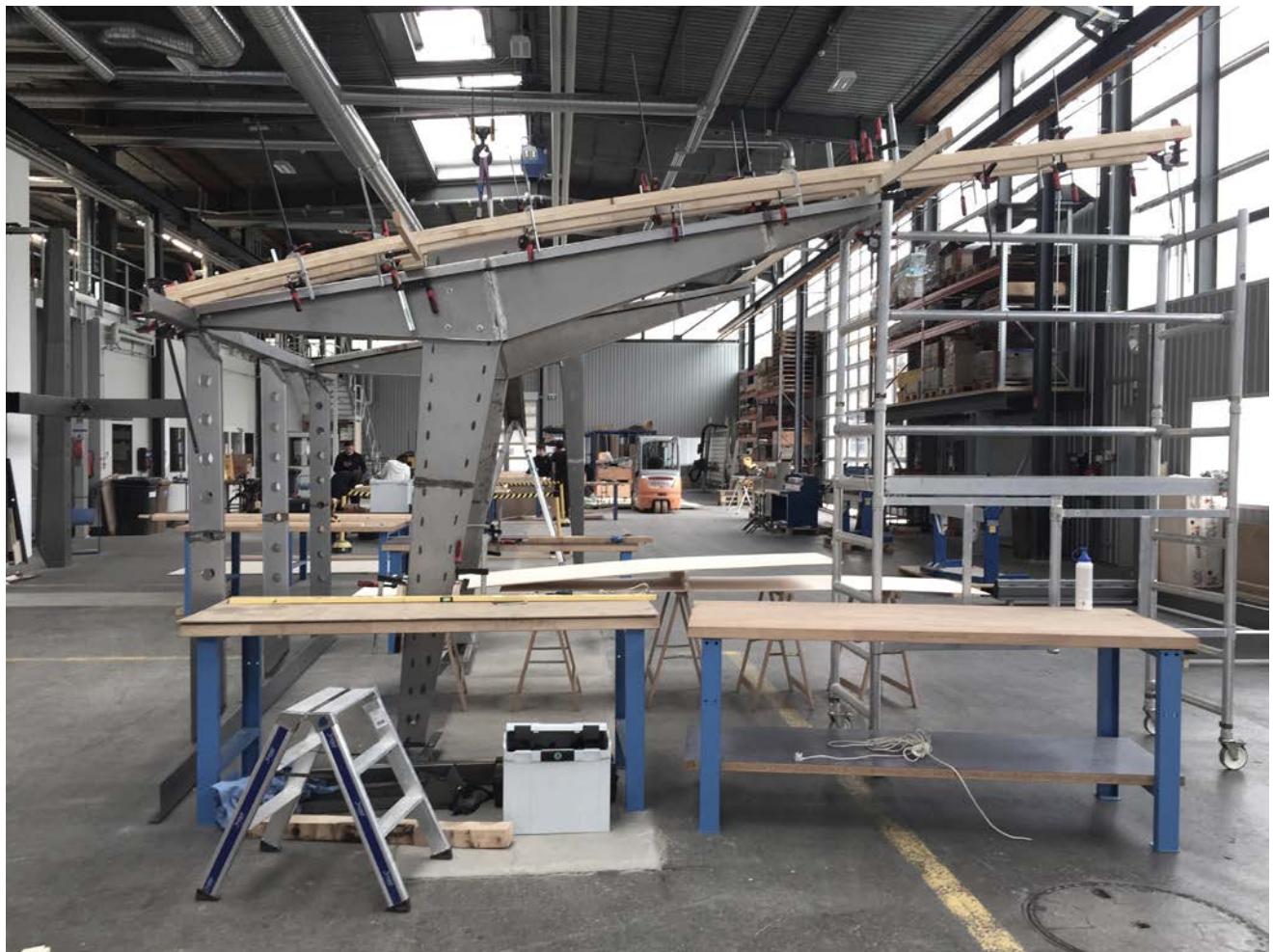
Aude Mueller
project drawing 1:2



Aude Mueller
1/5 scale model



Fabien Peter
1/10 scale model



École Temporaire - Jean Prouvé
Fabrication of curved plywood elements
Halle Bleue, Fribourg

photo credits

- p. 7, 9,12,13,19,27, 32, 33, 39, 45, 49
- Raffael Baur
p. 52 - Aude Mueller
p. 44 - Gregory Perruchoud
p. 53 - Fabien Peter

impressum

© 2021 HEIA Fribourg

