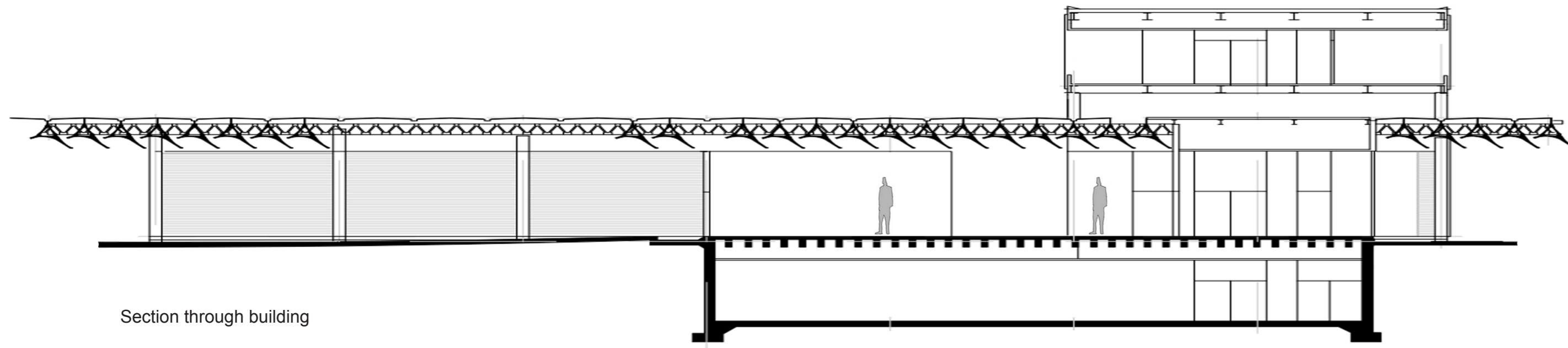




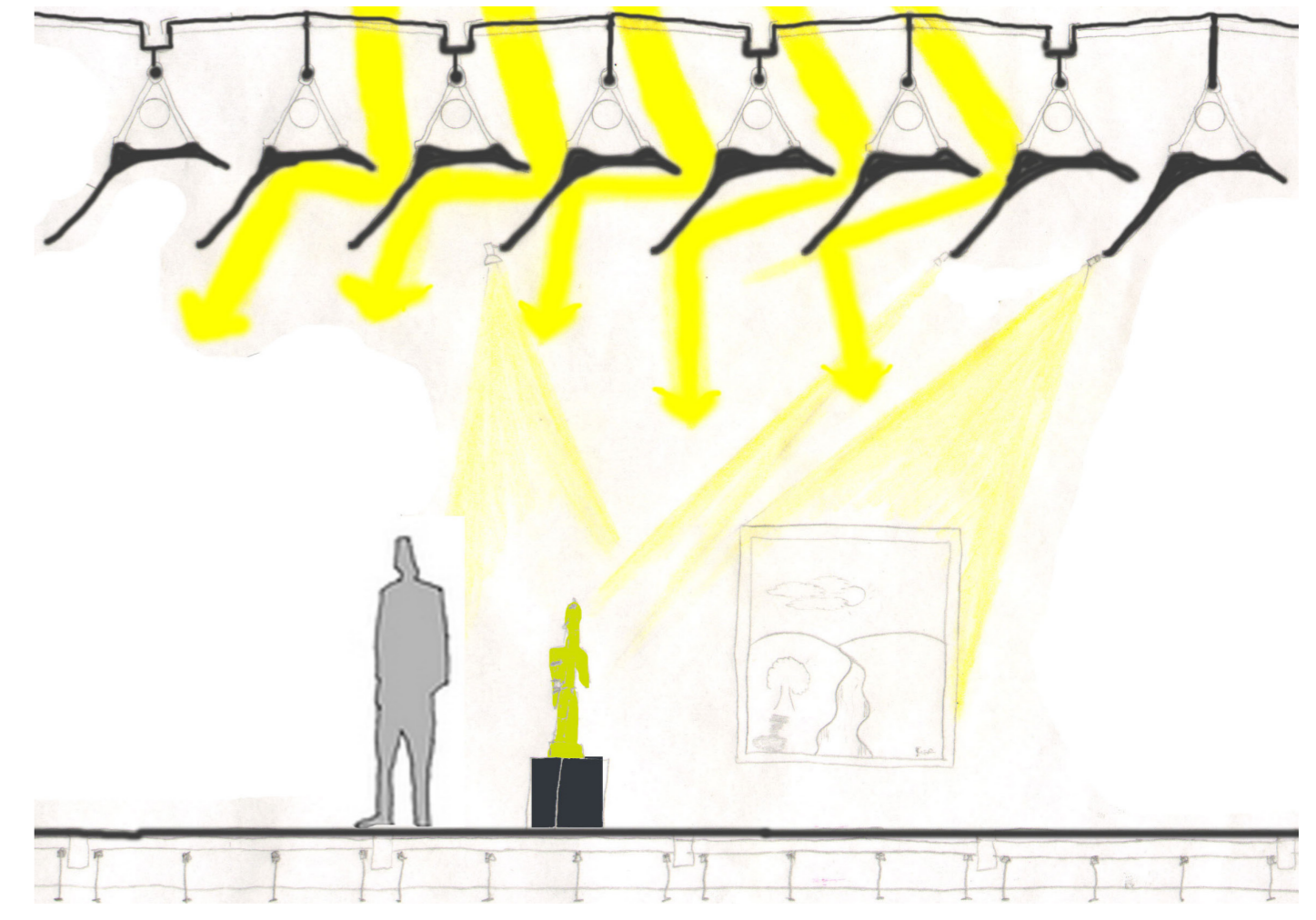
The Menil Collection is situated in Houston, Texas, USA. It is an art gallery designed by Renzo Piano and Peter Rice. The idea for this gallery came from Dominique and John De Menil. In the collection are over 10,000 works of ancient African and modern surrealist art. The building is 121.92m long and 42.67m in width. The pavilion is 2800sqm of gallery and public space. The building comprises of a basic steel structure with timber infill cladding panels as walls. The ductile iron trusses are attached to large white fins, known as 'leaves'. These leaves are made from ferro-cement. There are UV resistant glass panels on the roof on top of the trusses to protect the collection from the rays. The building follows the low lines of the surrounding houses in order to keep with the De Menil's idea of having a domestic feel to the building. The timber infills are made with grey cypress timber in order to help the building blend into the surroundings as it matched the colours of the neighbouring houses.

THE MENIL MUSEUM

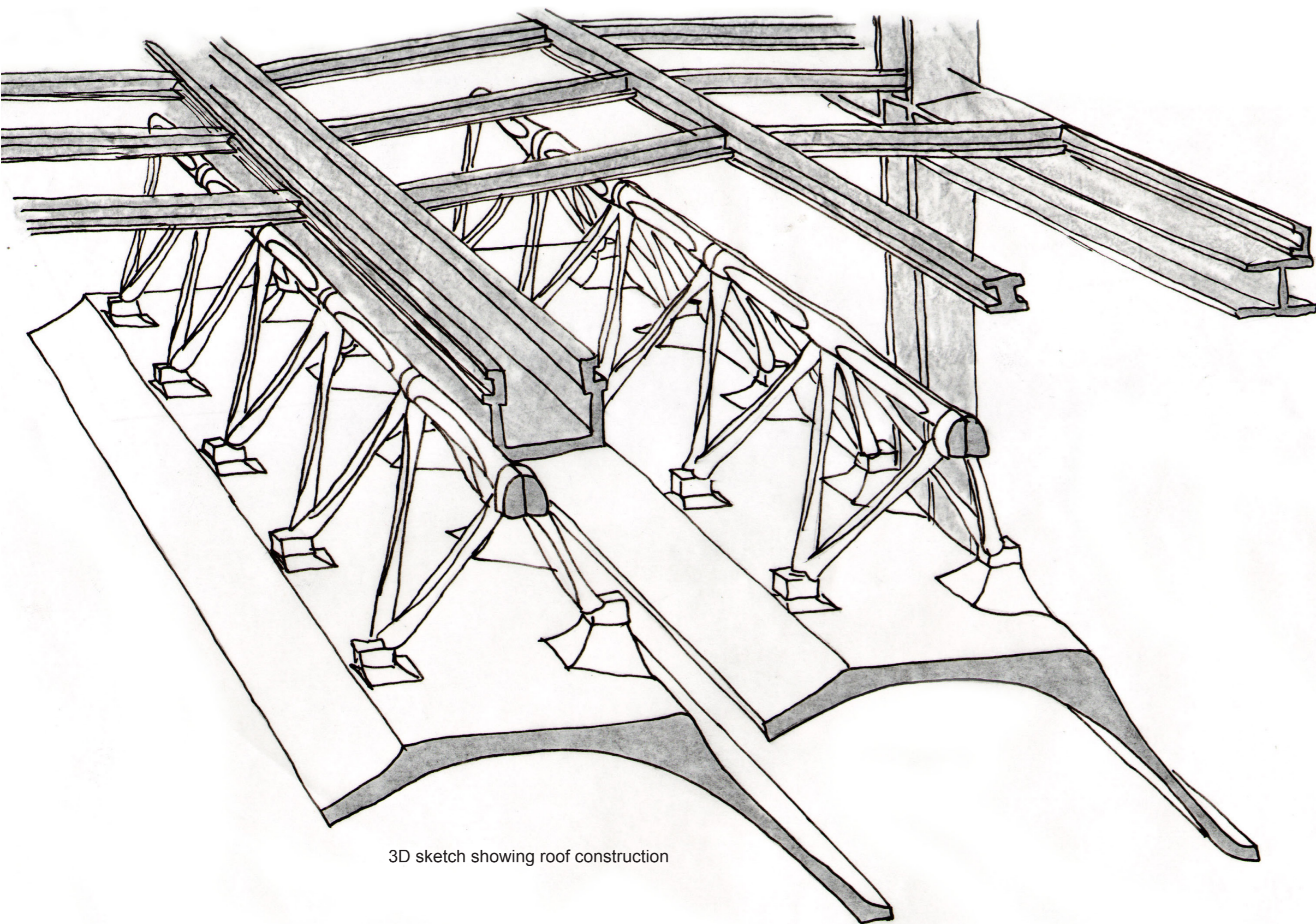
RENZO PIANO & PETER RICE 1981



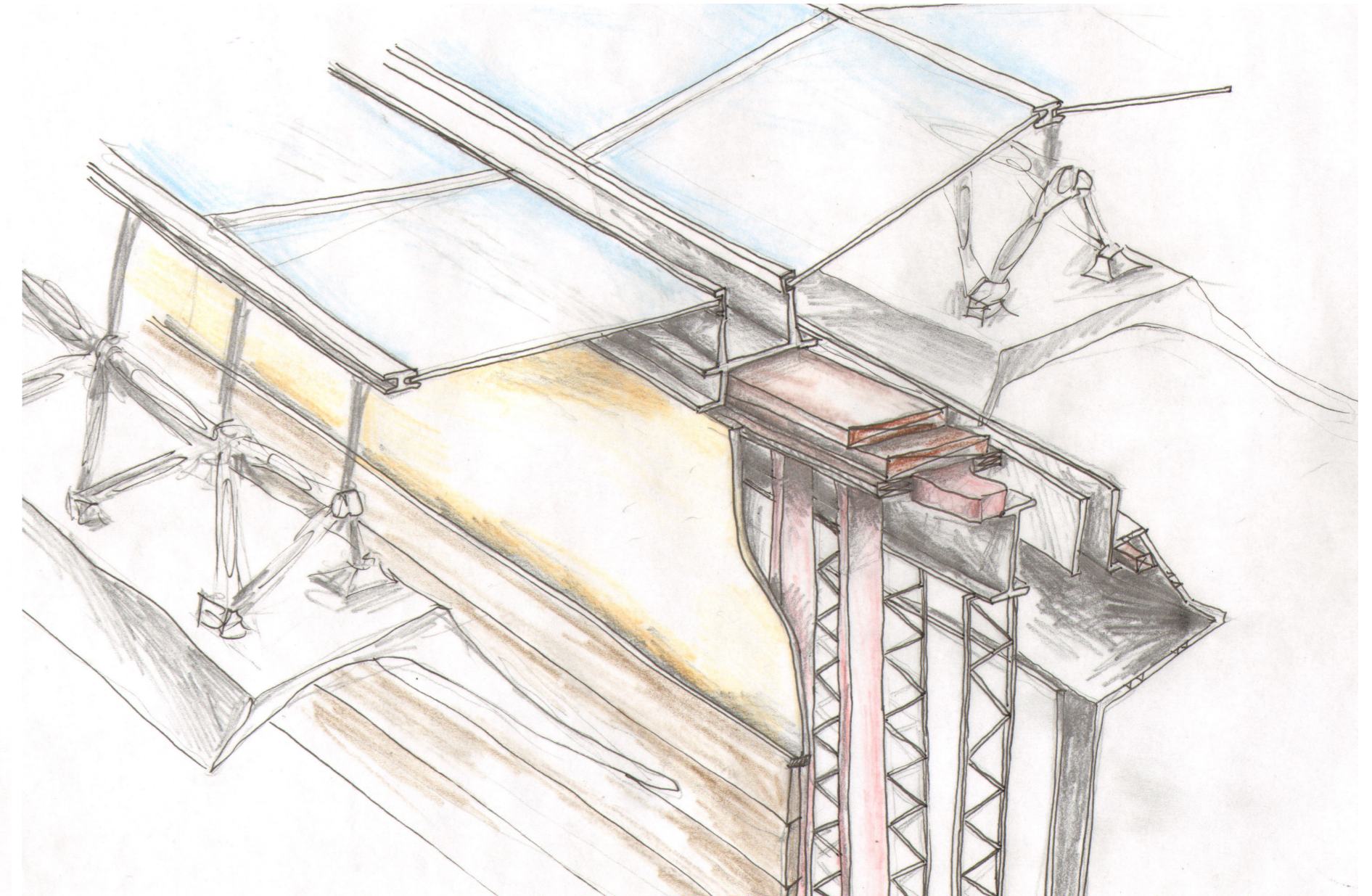
Section through building



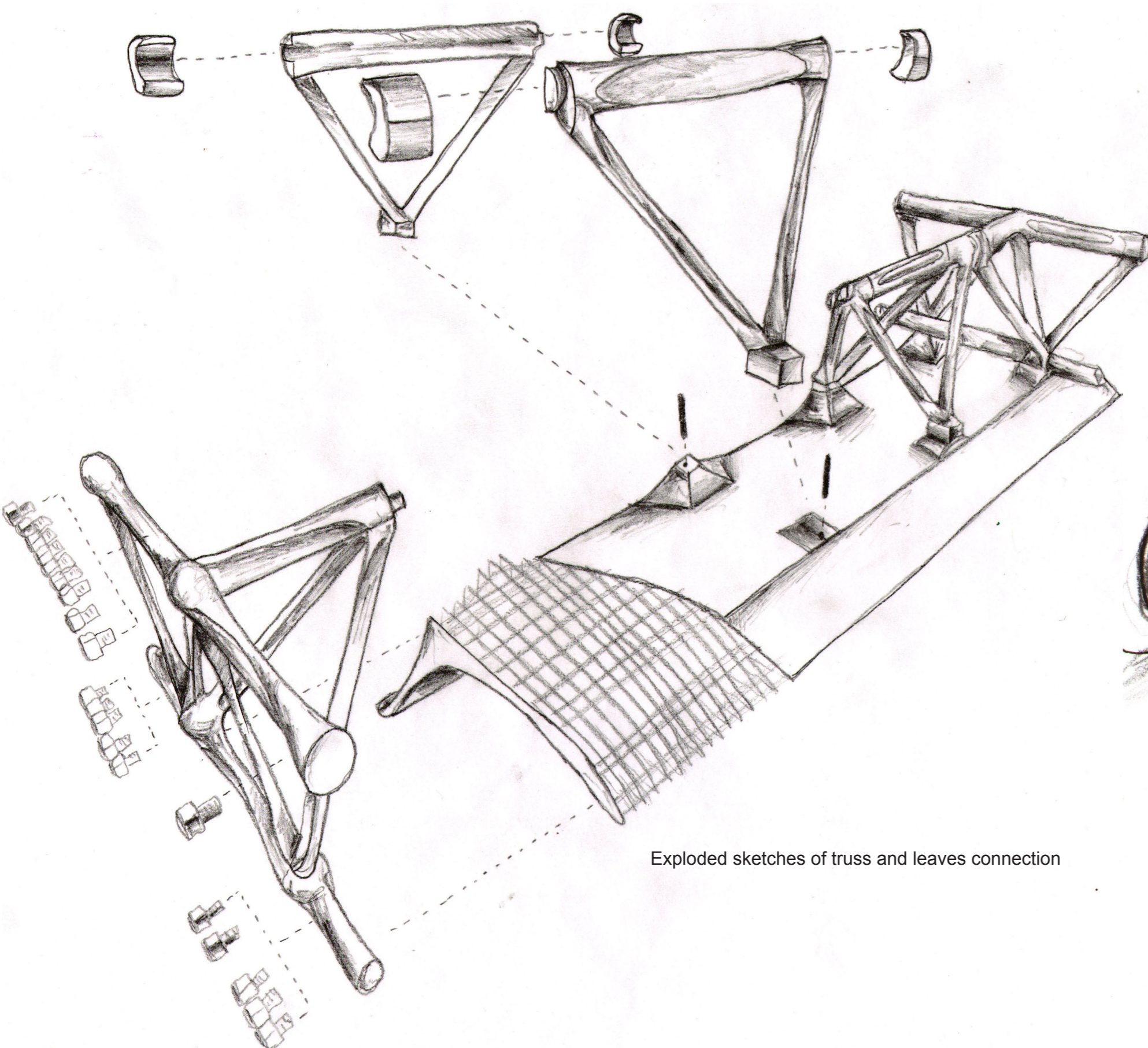
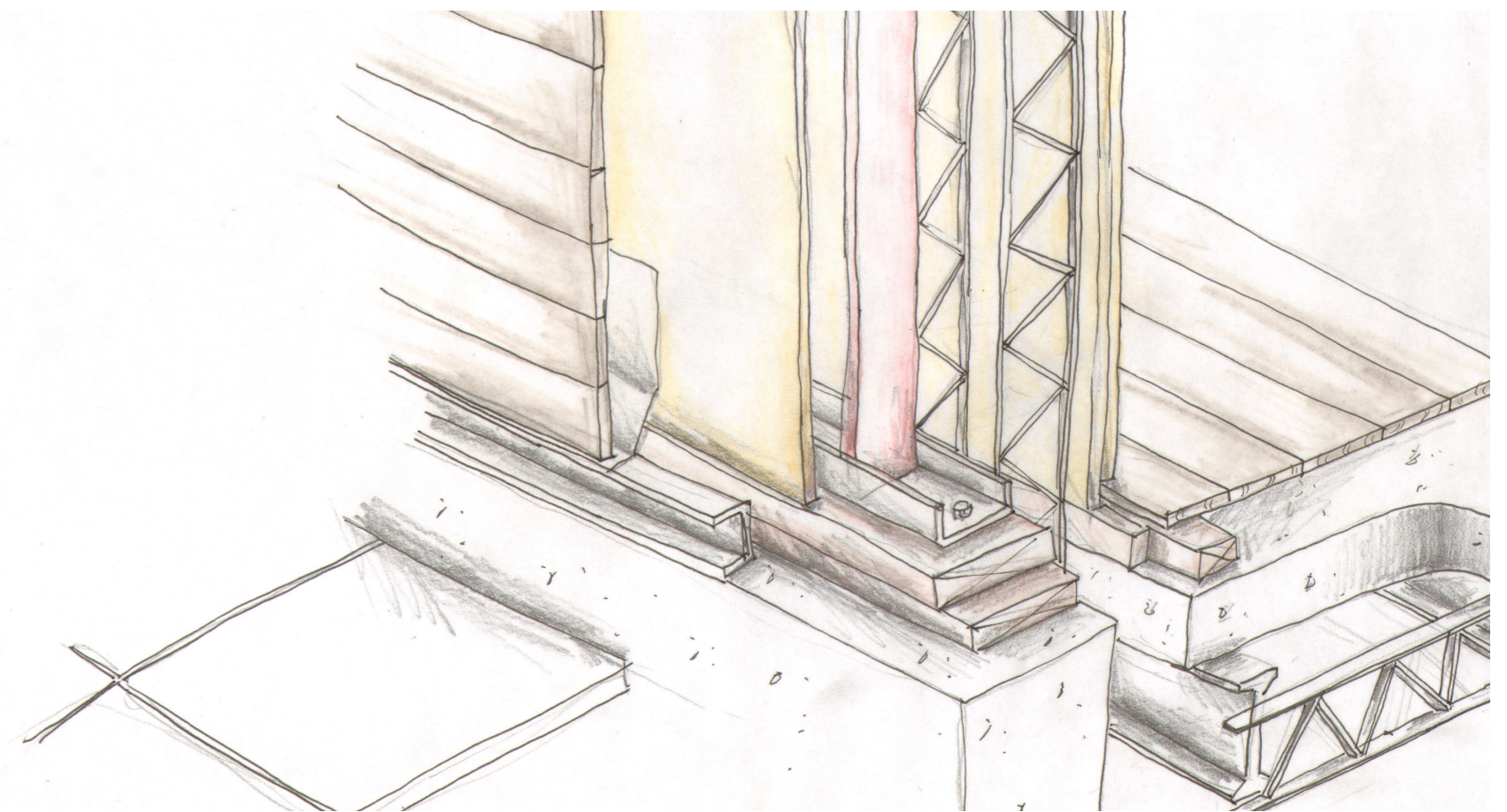
Sketch showing direct sunlight being reflected by the leaves into the gallery



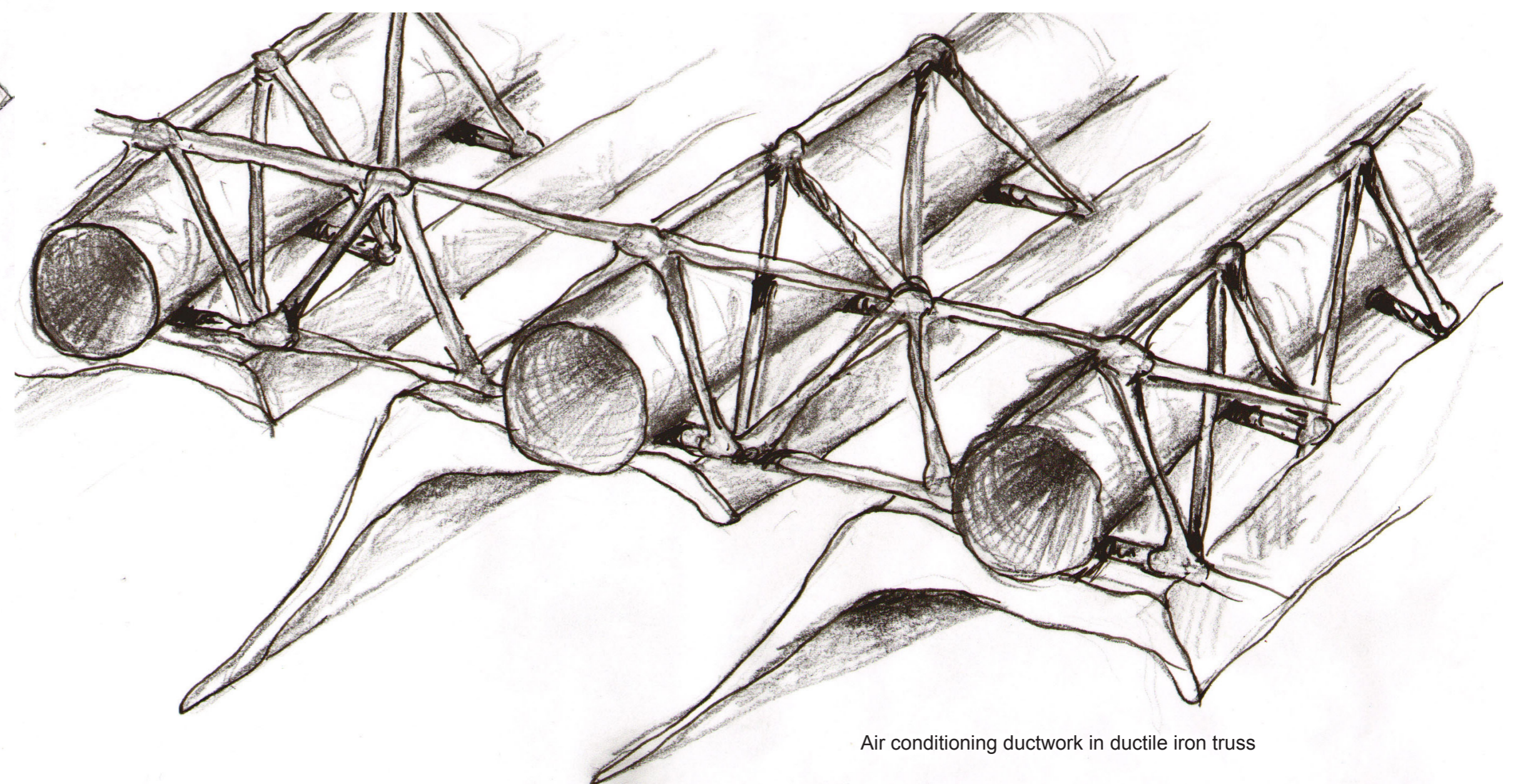
3D sketch showing roof construction



3D sketch detail of roof and ground floor detail



Exploded sketches of truss and leaves connection



Air conditioning ductwork in ductile iron truss



CONNECTION & COLLABORATION: LESSONS FROM PETER RICE

3rd & 4th YEAR ARCHITECTURAL TECHNOLOGY 2013

Students: Milo Bashford, Gerard Bennett, Ross Boyce, Patrick Brady, Robert Burns, Robert G Burns, Sean Casey, Andrew Cleary, Carl Corcoran, Anna Cullen, Chris Daly, Adam Darby, Bernard Deay, Mark Denny, Vincent Doherty, Mark Doyle, Dean Farrell, Ciaran Ford, Shane Hall, Ross Harrell, Ben Harrison, Colin Hemon, Adam Henderson, Fatma Hinawy, Darren Hoey, David Holland, Brian Kennedy, Akvile Klapatauskaite, Davitt Lamon, Brian Lee, Peter Lemasney, Ciaran Lennon, Brendan Linnane, Sarah MacLoughlin, James Maguire, Peter Mahon, Brian Malone, Michael Malone, Jason McElroy, Kevin McFeely, Karl McGarry, Pauric McGill, Marcus McGuire, Joe McNally, Kevin McNulty, Bryan Menton, Darragh Moore, Stephen Morris, Niall Murphy, Owen O'Flaherty, Ruairi O'Neill, John O'Sullivan, Daryl Phelan, Martin Philip, Ian Plunkett, Robert Quinn, Stephen Ralph, David Reilly, Jonathan Rogers, Anita Salako, Andrei Triffo, Aiga Veltensone, David Veltom, John Wolfe-Flanagan, Dominika Zubiak. Staff: Cormac Allen, Eric Bates, Noel Brady, Máirtín D'Alton, Pierce Fahy, Rory Greenan, Orna Hanly, John Lauder, Tim O'Leary, Jim Roche, Sima Rouholamin, David Wright. Collaborators: Gerard Crowley, Peter Flynn, Declan McGonagle, Sean Ó Laoire.

