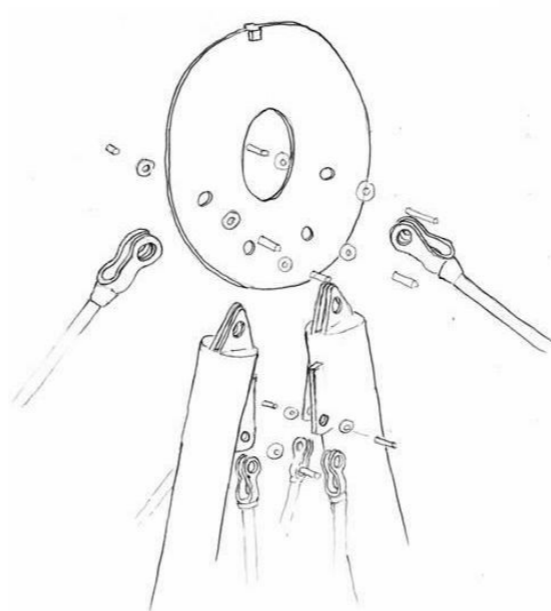


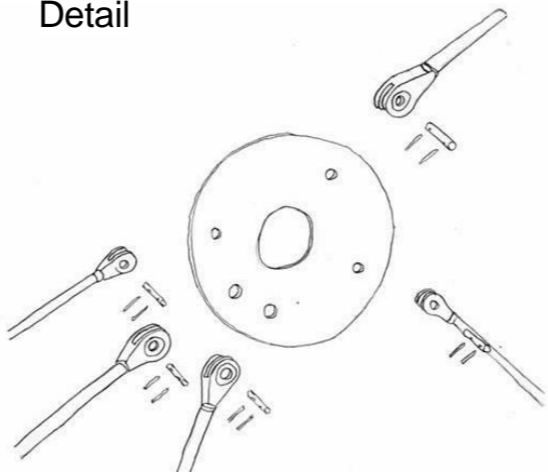
Similar to a man carrying an even load, the load is suspended from the frame by two centre members supporting the roof structure



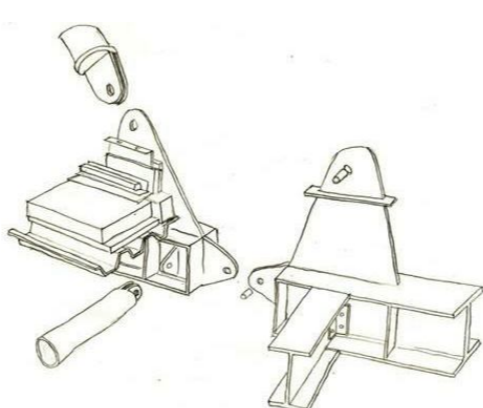
Perspective Front Elevation showing frame and suspending members.



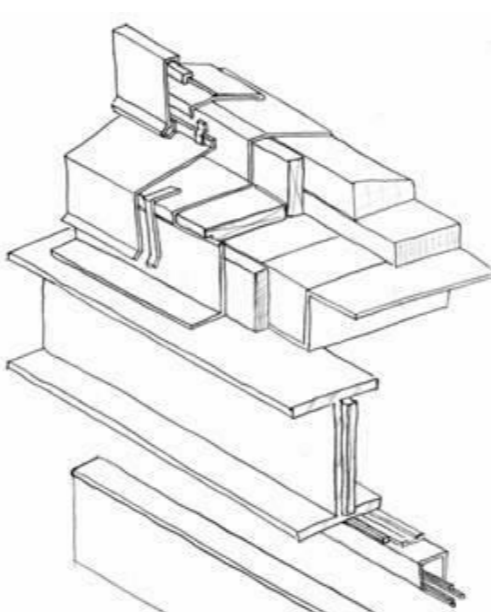
Mast Apex Connection Plate Detail



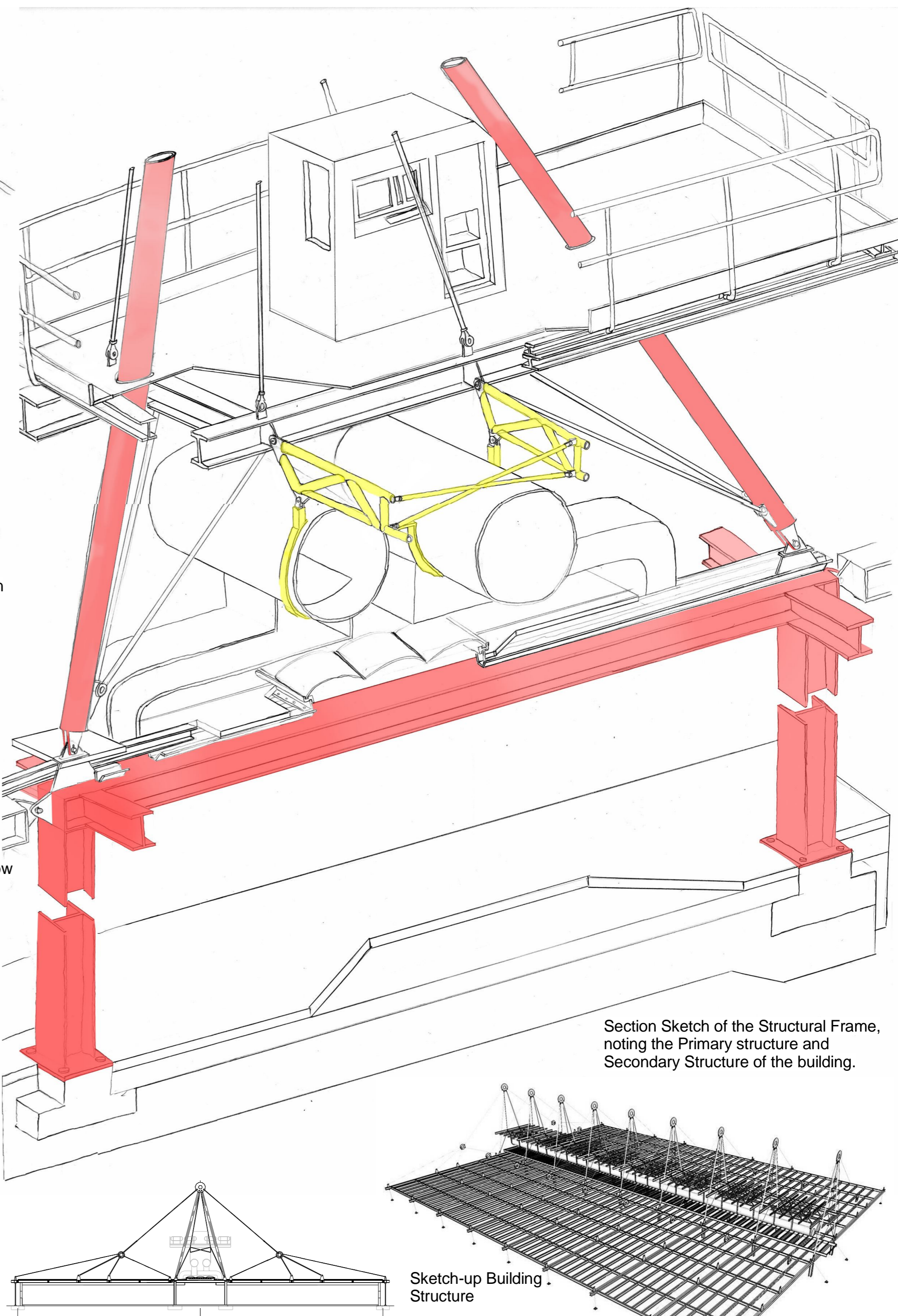
Mid Ringplate Cable Connection Detail



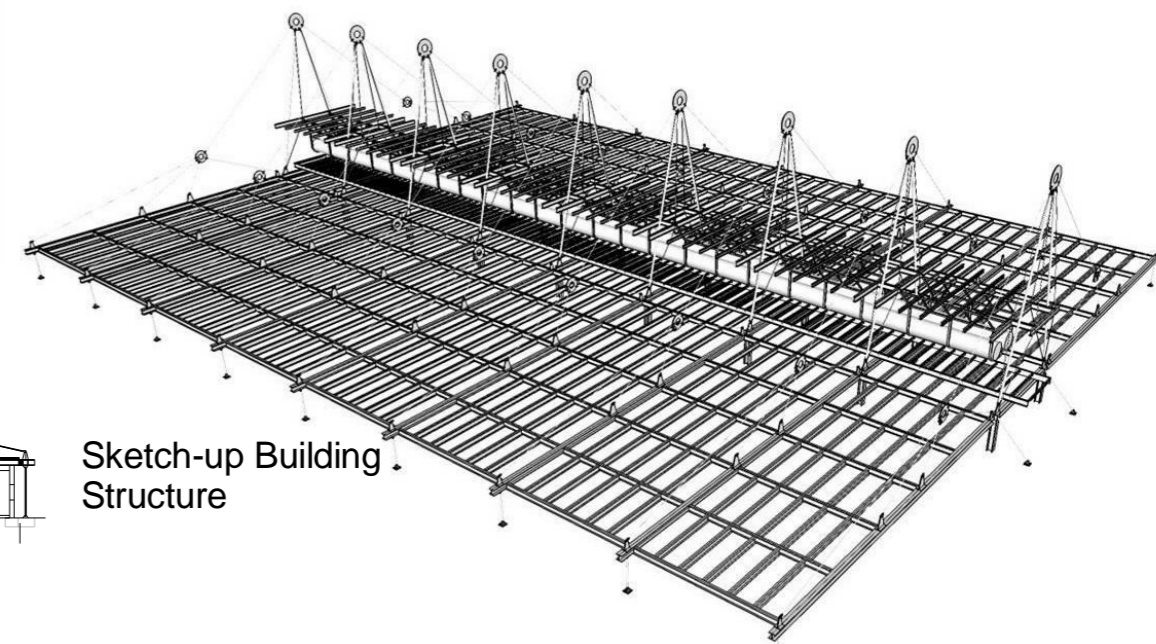
Pin Joint Connection Detail below Bi-Pod Mast



Exterior Wall to Roof Detail



Section Sketch of the Structural Frame, noting the Primary structure and Secondary Structure of the building.

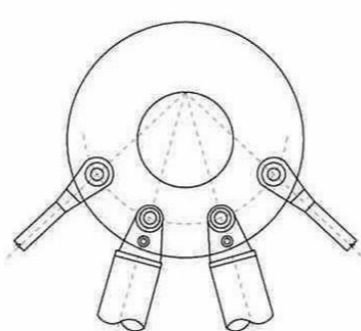


Sketch-up Building Structure

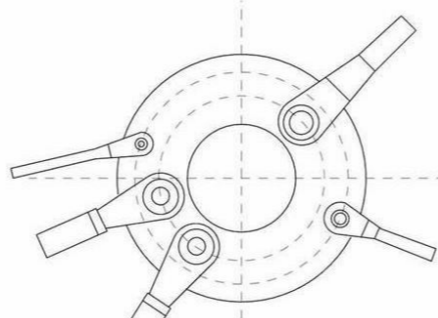
# PATSCENTER, NEW JERSEY

RICHARD RODGERS

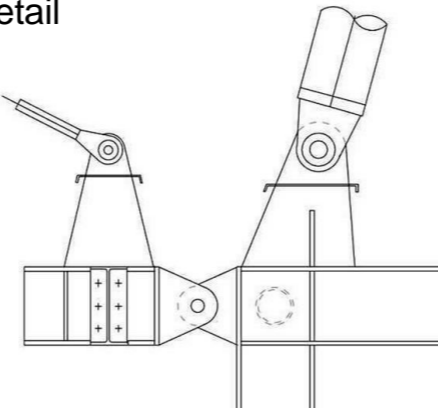
1978



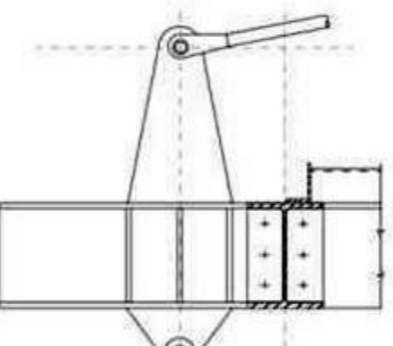
Mast Apex Connection Plate Detail



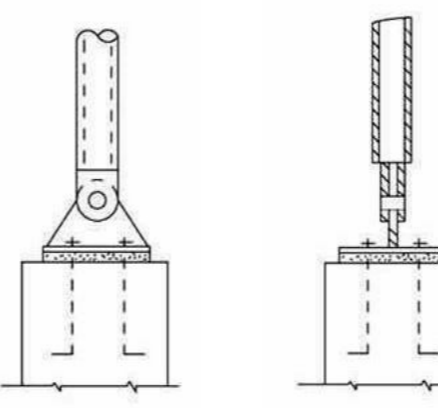
Mid Ringplate Cable Connection Detail



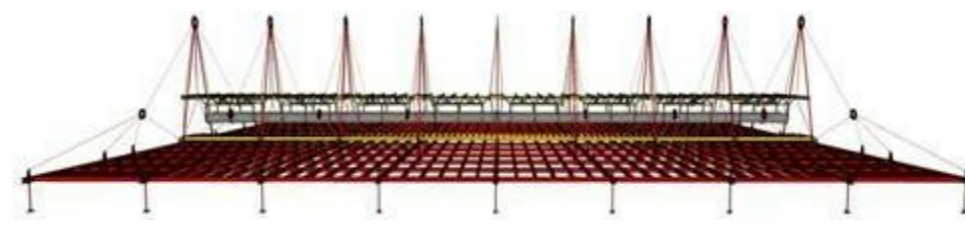
Pin Joint Connection Detail below Bi-Pod Mast



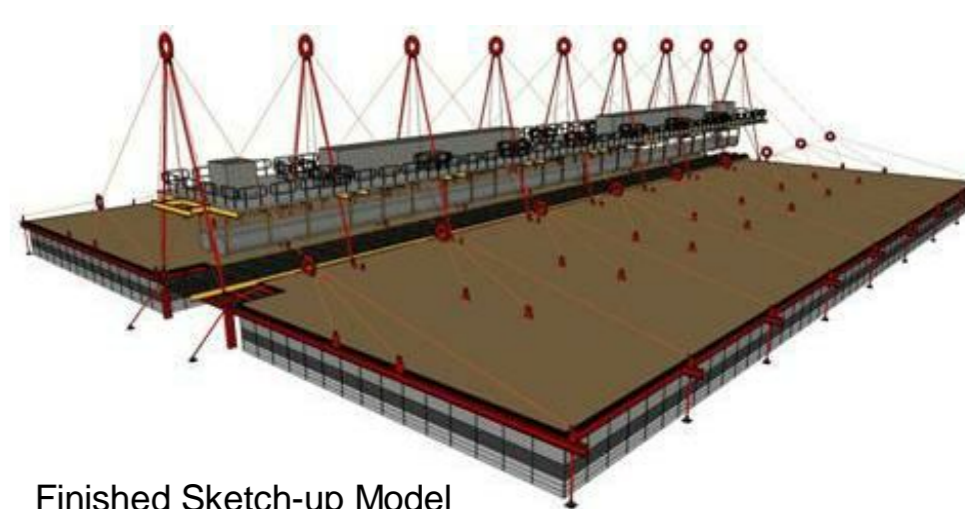
Section Through Structure to Show Pin Joint Plate Connections



Elevation and Section of the Pad Foundations used in the Building



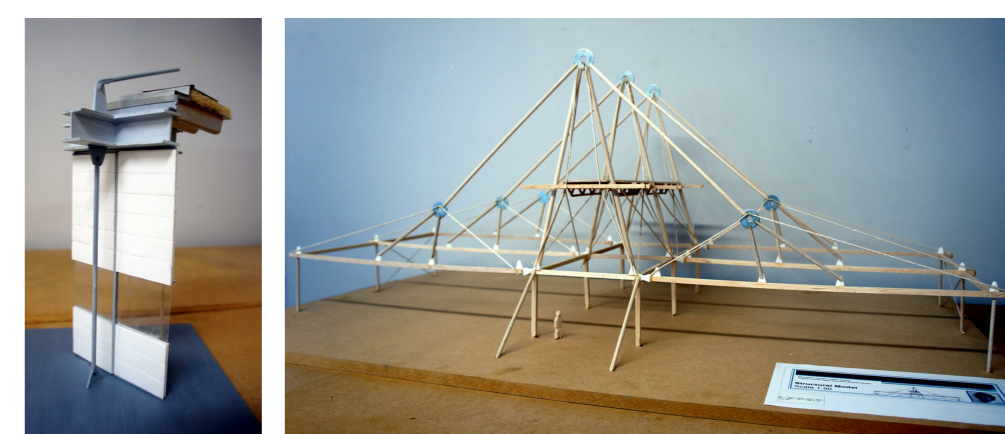
Perspective Side Elevation



Finished Sketch-up Model

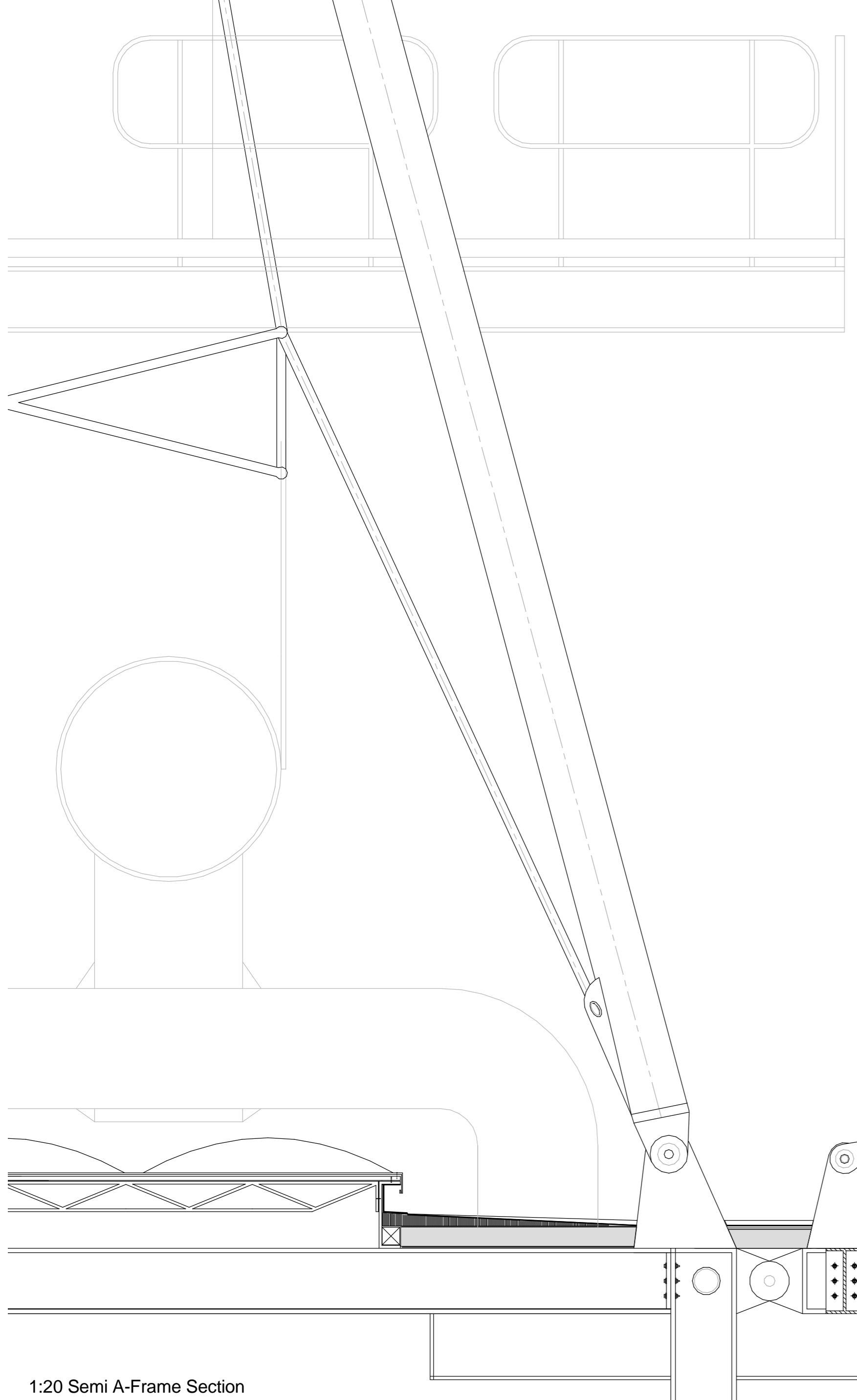
**Peter Rice**  
Rice born 1935 in Dundalk, County Louth. He studied at Queen University, Belfast where after ward he was taken on by Ove Arup & Partners, his first job being the Sydney Opera House. His Influence has shaped a new generation of architects and engineers, who renew their own work his exploration of materials, his commitment to the integrity of a structure, his refusal of precedent and his courage as a designer. After years of breathtaking and inovational work which has had a world of influence, Peter was tragically diagnosed with a brain tumour in 1991 at the age of just 57. In remembrance of peter he was awarded the RIBA Royal Gold Medal for Architecture.

**The Patscenter**  
Peter Rice wanted to create a hight tech research facility which would be aesthetically pleasing but more importantly modular. The result was a structurally expressed A-Framed building in a 9.0m x 4.5m grid, for the possibility of future extension. The Patscenter is in essence a series of plainer structures, repeated at intervals along the length of the building, the structural elements of the building were prefabricated off site and rapidly erected on site, bay by bay. By using flat plates for the joints on the mast and how the masts project up independantly of one and other draws the stecttion to the plainer quality both in the photographs and in reality. This has enabled the structure, when viewed from the side elevation, to appear relatively simple and uncluttered. Peter noted that rogers wanted to design the project in a way to make it easy to photograph.



Fabric Model 1:20

Structure Model 1:50



1:20 Semi A-Frame Section

## CONNECTION AND COLLABORATION: LESSONS FROM PETER RICE

3rd + 4th YEAR ARCHITECTURAL TECHNOLOGY 2013

Students: Michael Balliford, Brian Bennett, Ross Boyd, Paul Brady, Robert Byrne, Robert Burns, Sean Casey, Andrew Cleary, Cian Coyle, Anna Cullen, Chris Daly, John Deane, Gerard Deary, Mark Deary, Vincent Deary, Mark Dyle, 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, Aga Veltensone, David Veltom, John Wolfe-Flanagan, Dominika Zubiak. Staff: Cormac Allen, Eric Bates, Noel Brady, Mairin D'Alton, Pierce Fahy, Rory Greenan, Oma Harly, John Lauder, Tim O'Leary, Jim Roche, Sima Rouholamin, David Wright. Collaborators: Gerard Crowley, Peter Flynn, Declan McGonagle, Sean O'Laire.

