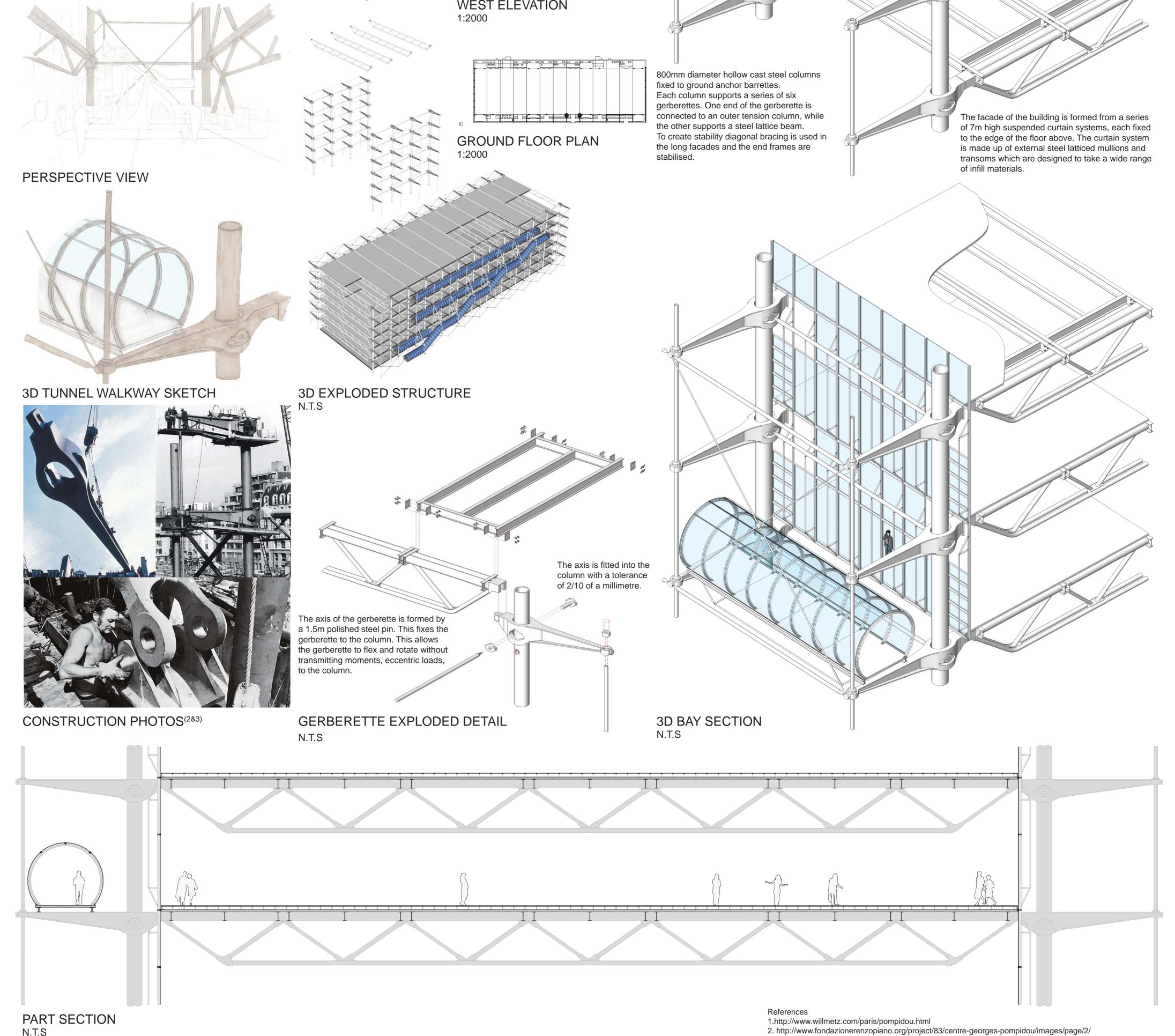
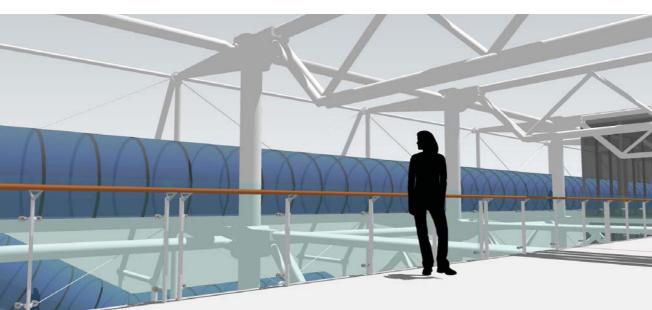
POMPIDOU CENTRE **RICHARD ROGERS, RENZO PIANO** PETER RICE

"Structurally expressionist in style, the Pompidou Centre, Paris is a gargantuan multi-function complex-housing the Public Archives, National Museum of Art, centre for research, auditoriums, galleries and more; all under one roof.

Designed by structural engineer Peter Rice in collaboration with architects Renzo Piano and Richard Rogers, the Pompidou Centre is constructed inside-out exposing its structural skeleton for all to see.

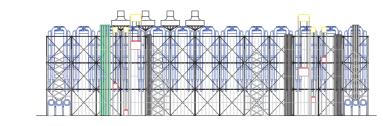
The detailed design and structural resolution was undertaken as an interdisciplinary exercise in teamwork. The structural concept for the facades was a system with a system that hinged on six elegantly tapered cast steel rocker beams known as gerberettes. The structure forms a permanent steel grid providing a stable framework, into which the moveable parts including walls and floors can be inserted, dismantled and re-positioned as necessary. The components and connections are of scale rarely seen in the construction industry-massive steel elements were fabricated off-site foundries and delivered by truck to the site during the night."⁽¹⁾



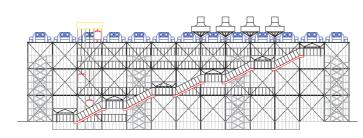


The 2.8m deep truss girders spanning 44.8m have a continuous double-tube compression chord, each being 450mm in diameter, and a continuous double solid round **1971-1977** for the bottom tension chord (225mm diameter in the centre and 160mm diameter at the anda). These are welded into and 160mm diameter at the ends). These are welded into cast steel nodes (coupling) which lie between double compression or double tension members.

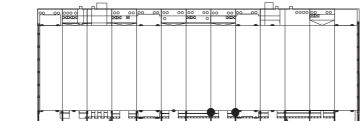
> The main truss takes a grip on the inside brackets of the gerberettes. The pressure of the beam on the gerberettes is balanced by the tension ties. Between the trusses prefabricated floor sections made of 500mm deep I beams spanning 12.8m



EAST ELEVATION 1:2000



WEST ELEVATION





CONNECTION & COLLABORATION: LESSONS FROM PETER RICE $D \cdot I \cdot T$ 3rd & 4th YEAR ARCHITECTURAL TECHNOLOGY 2013

Students: MiloBashford, GerardBennett, RossBoyce, PatrickBrady, RobertABurns, RobertGBurns, SeanCasey, AndrewCleary, CarlCorcoran, AnnaCullen, ChrisDaly, AdamDarby, BernardDeay, MarkDenneny, VincentDoherty, MarkDoyle, DeanFarrell, CiaranFord, ShaneHall, RossHarrell, BenHarrison, 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 Mac Loughlin, James Maguire, Peter Mahon, Brian Malone, Michael Malone, Jason McElroy, Kevin McFeely, Karl McGarry, PauricMcGill, MarcusMcGuire, JoeMcNally, KevinMcNulty, BryanMenton, DarraghMoore, StephenMorris, NiallMurphy, OwenO'Flaherty, RuairiO'Neill, JohnO'Sullivan, DarylPhelan, MartinPhilip, IanPlunkett, RobertQuinn, StephenRalph, DavidReilly, JonathanRogers, AnitaSalako, AndreiTriffo, 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

Dublin School of Architecture

3. http://www.richardrogers.co.uk/render.aspx?siteID=1&navIDs=1,4,23,374,377&showImages=detail&imageID=53