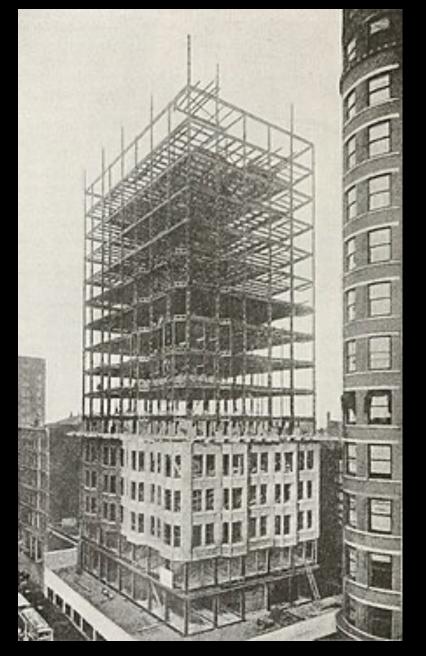
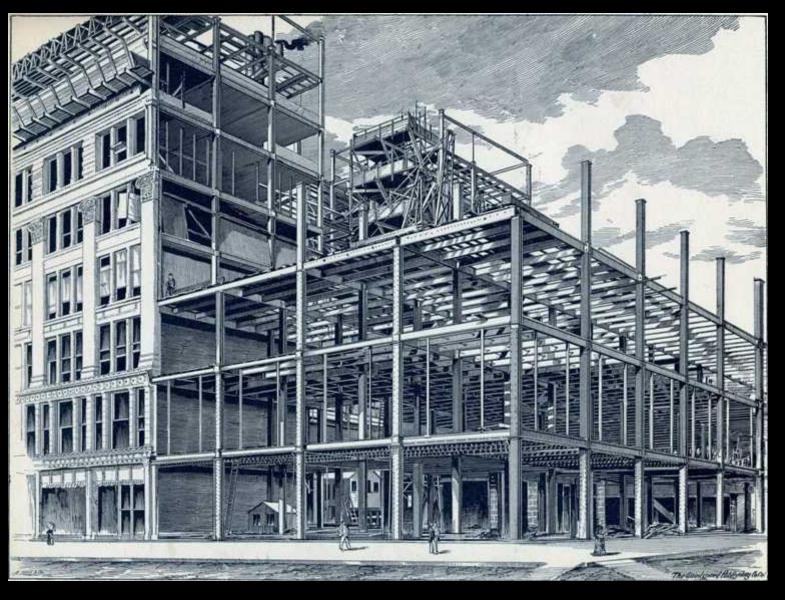
AHST 3322-001 (29089) History of Modern Architecture Dr. Charissa N. Terranova University of Texas at Dallas Spring 2022 M-W 1:00-2:15

02/02/22

Chicago Loop and Skyscraper



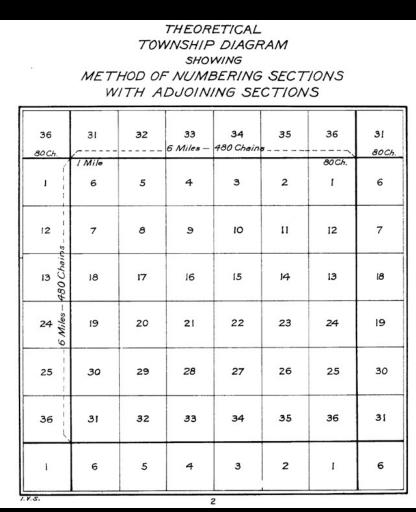
Daniel Burnham & Co., Fisher Building, 1895-96 with tripartite Chicago Window



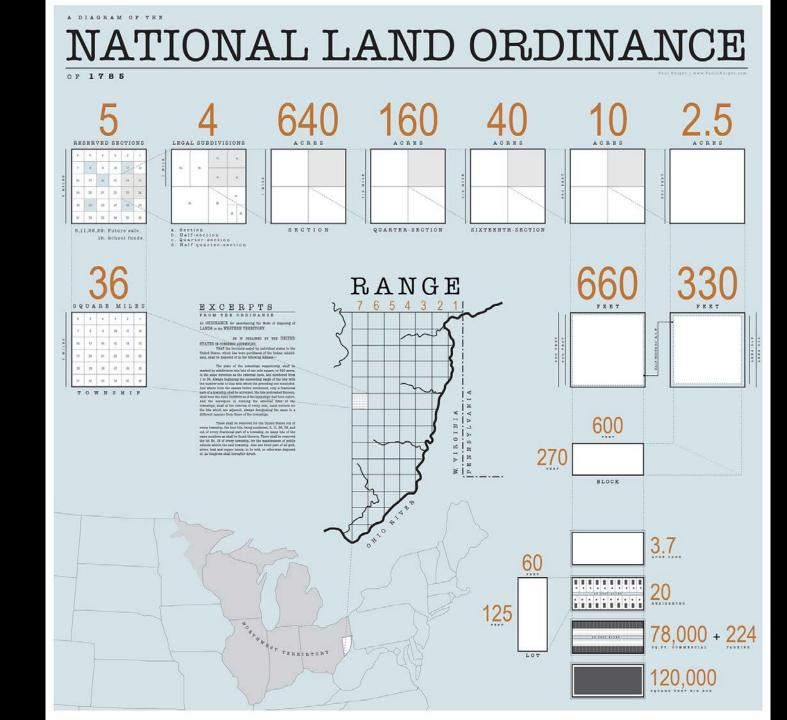
William Le Baron Jenney's The Fair Store(1892-1986) under construction showing the steel skeleton Colin Rowe, "The Chicago Frame," (1956) *Mathematics of the Ideal Villa* (1976)



# The Logic of the Grid

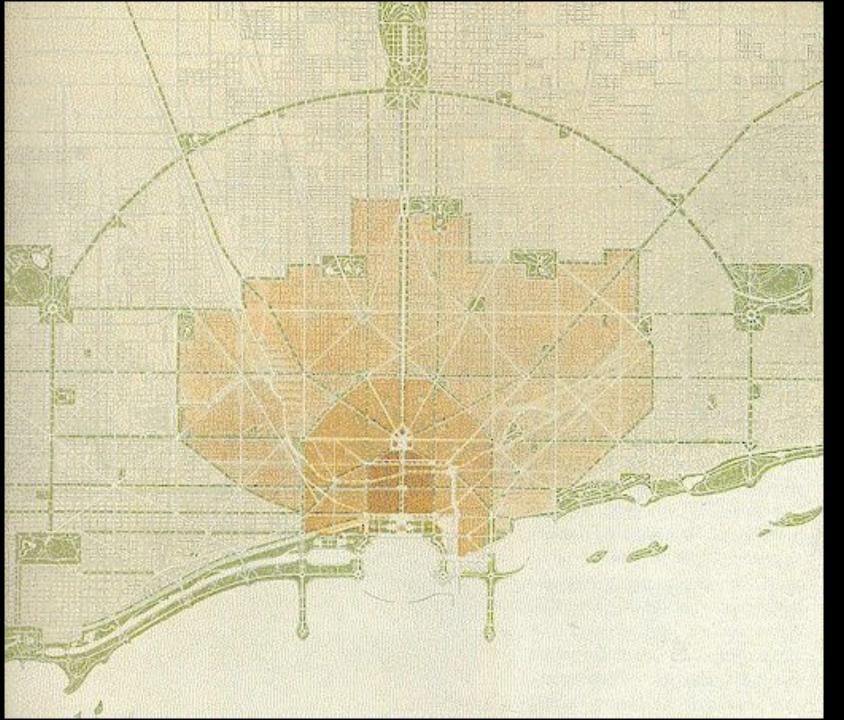


Above: General Land Office plan for numbering sections of a standard survey township adopted May 18, 1796 Right: Logic of Land Ordinance of 1785 by Thomas Jefferson; showing how the method of subdivision can be applied from the scale of the country down to the scale of a single lot

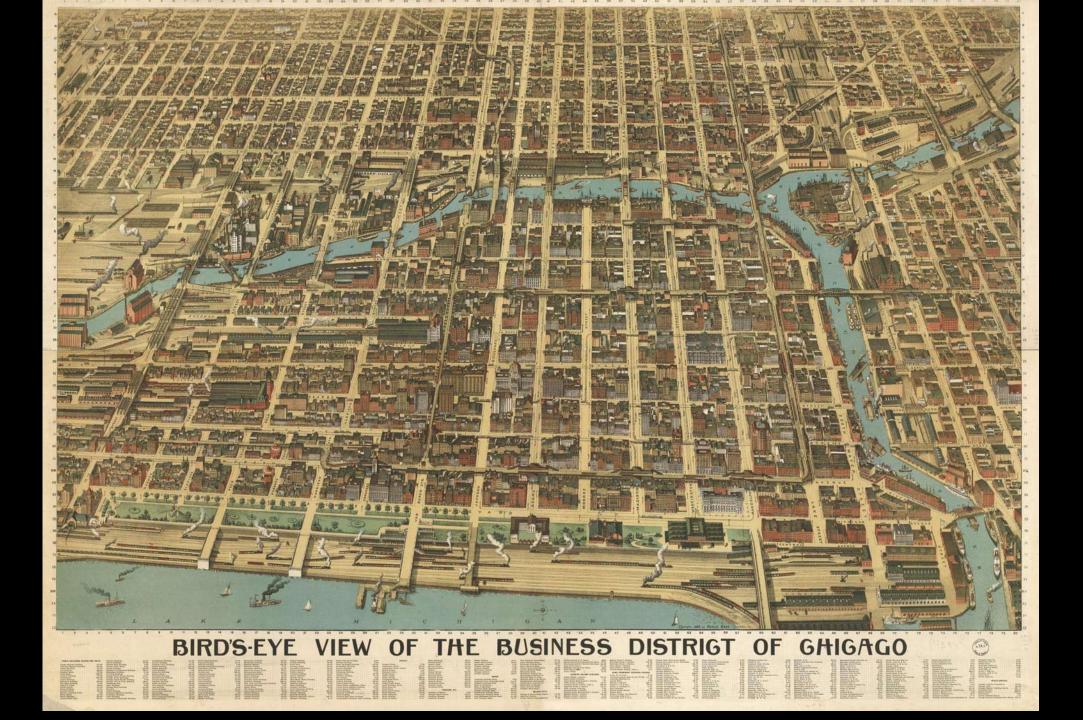




Daniel Burnham with Frederick Law Olmsted, Master Plan of Columbian Exposition, 1893



Daniel Burnham, Plan for Chicago, 1909







Aftermath of Great Chicago Fire, 1871





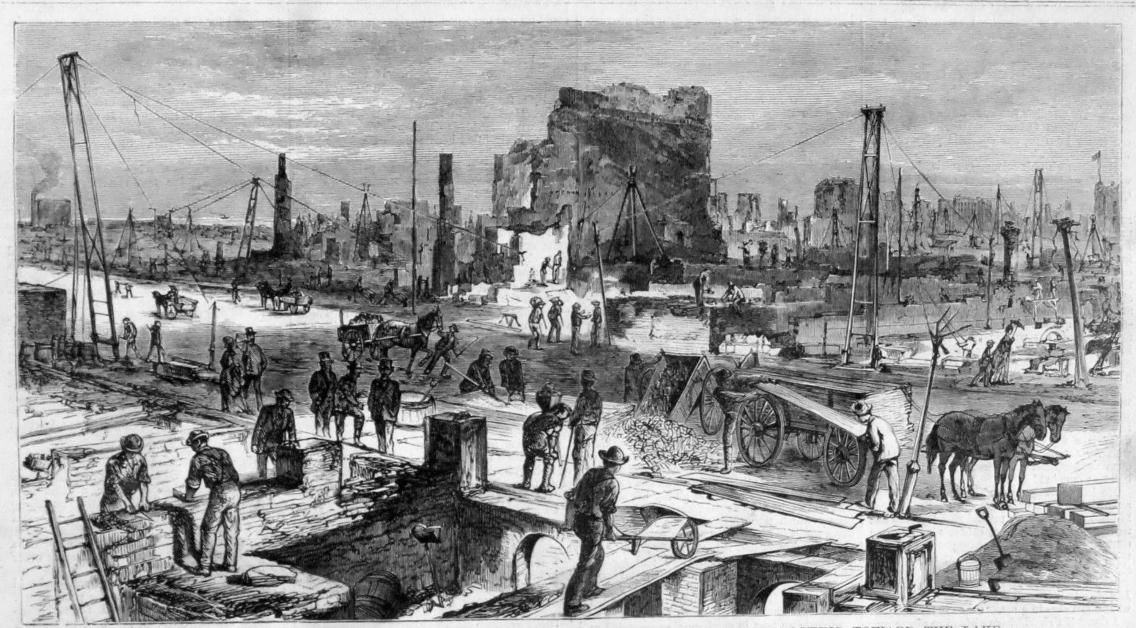
SHEPARD'S BUILDING, DEARBORN AND MONROE STS., BEFORE AND AFTER THE FIRE OF 1871.



MICHIGAN AVE. NORTH FROM MADISON ST., BEFORE AND AFTER THE FIRE OF 1871.

### November 11, 1871.]

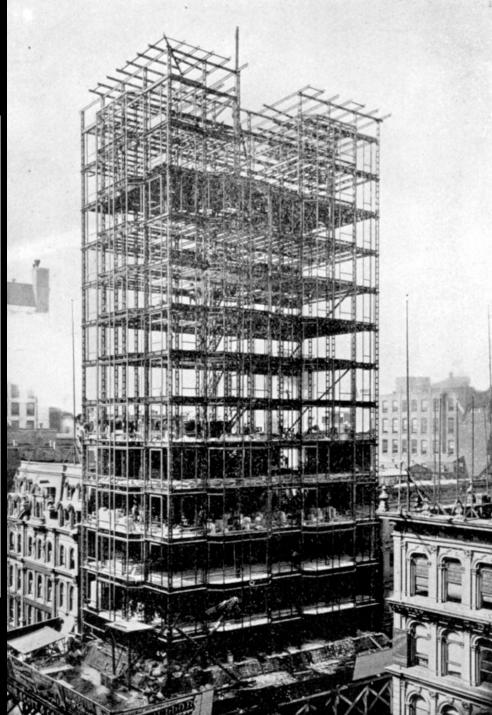
#### HARPER'S WEEKLY.



REBUILDING CHICAGO-VIEW AT THE CORNER OF LAKE AND LA SALLE STREETS, LOOKING TOWARD THE LAKE. FROM A SKETCH BY THEO. R. DAVIS.-[See Page 1058.]

## CHICAGO FRAME/CHICAGO SKELETON

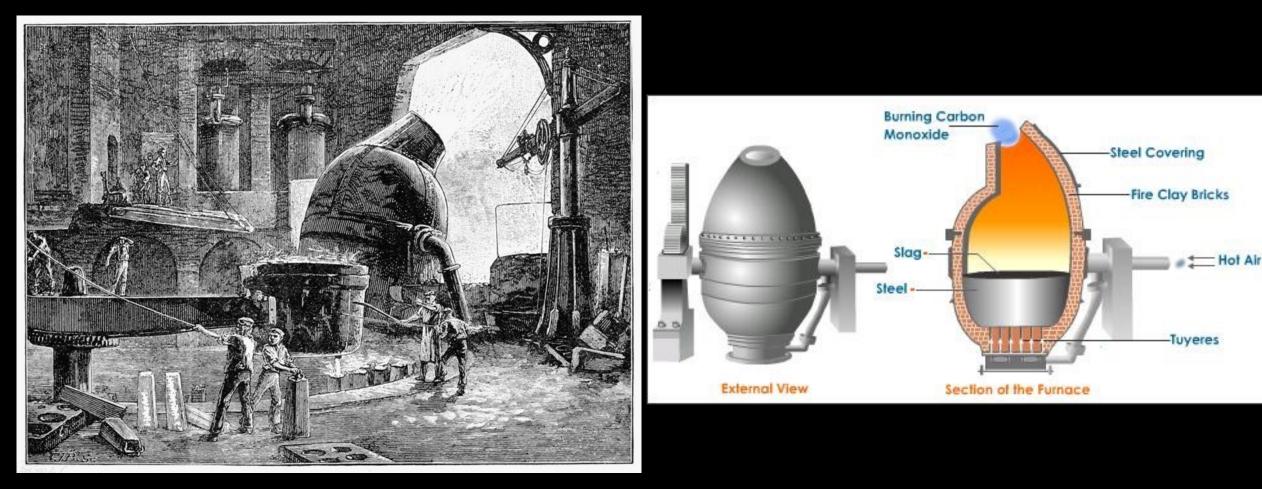






William le Baron Jenney, Home Insurance Building, Chicago, 1885





The Bessemer steel process is named for Sir Henry Bessemer of England. Invented / discovered in the 1850s, this process was the first inexpensive industrial process for the mass-production of steel from molten pig iron before the development of the open hearth furnace. Key to this process is the removal of impurities from the iron by oxidation with air being blown through the molten iron.



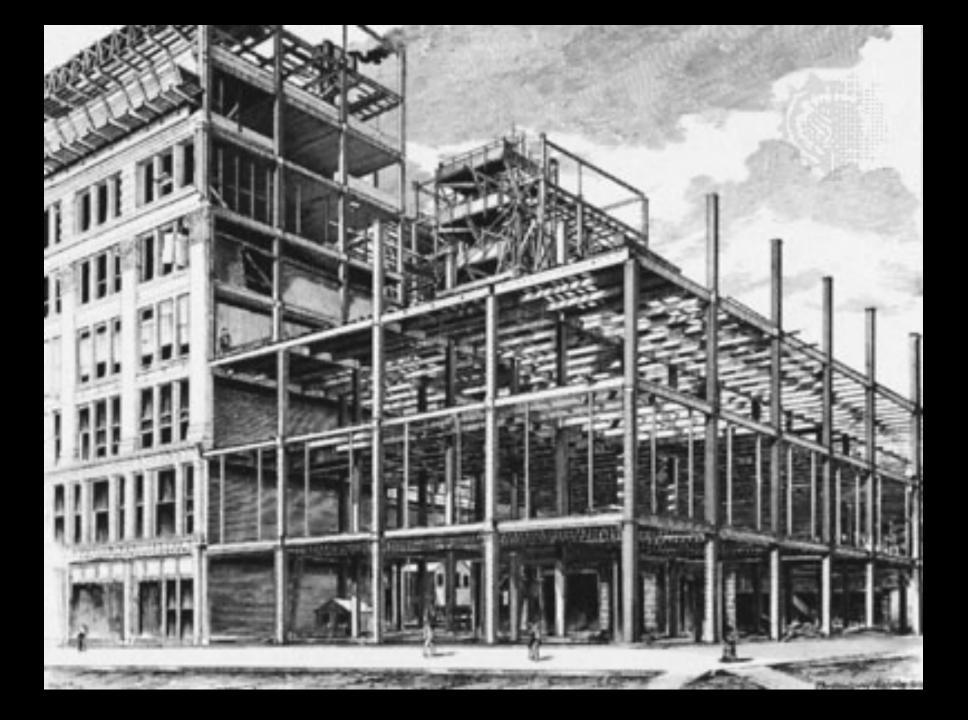


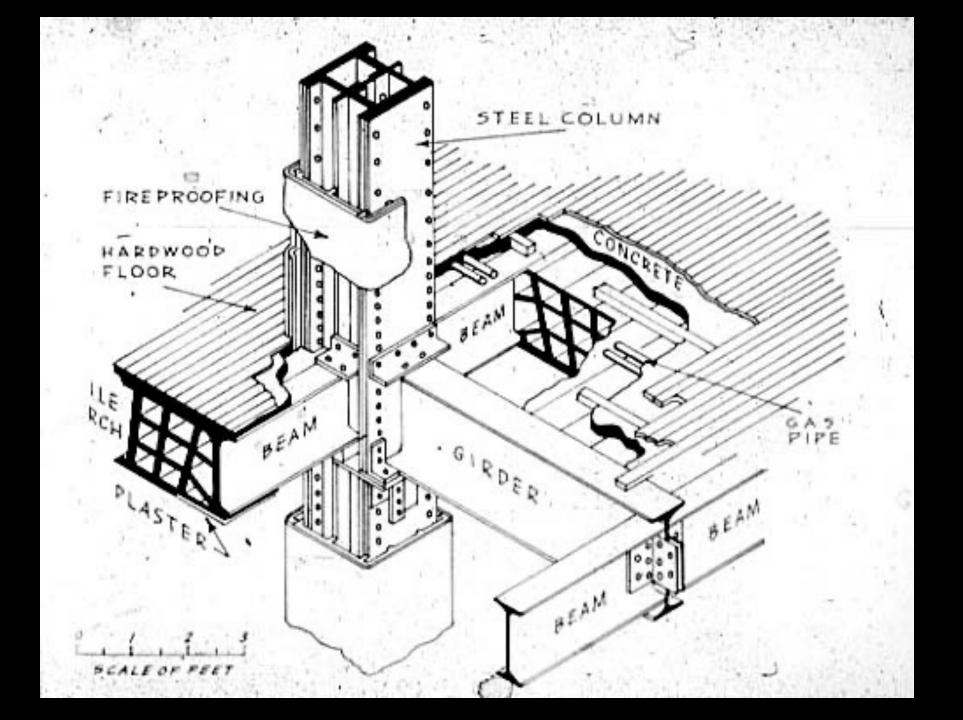
#### **Essential Characteristics:**

- 1. Great height
- Arrangement in stories
- Utmost space and light in each story
- 2. Necessary means
- Structural system skeletal construction
- Materials necessary to system, above all steel (iron, reinforced concrete), fireproofing, heat-resisting material
- Passenger elevators
- 3. Favoring conditions
- Economic such as high value of land; availability of labor and capital
- Social such as living in large groups [density]; enterprise; organization of work; publicity
- Technological such as suitable tools, processes, and sources of power, development of plumbing, heating; growth of engineering; development of craft of building to a certain point
- Psychological desires (conscious and unconscious) which a tall form can express
- Aesthetic liking for height; preference for the effect of towers related to lower buildings

The Fair, Department Store, Chicago State and Adams Streets

William le Baron Jenney, Fair Store, 1890-91



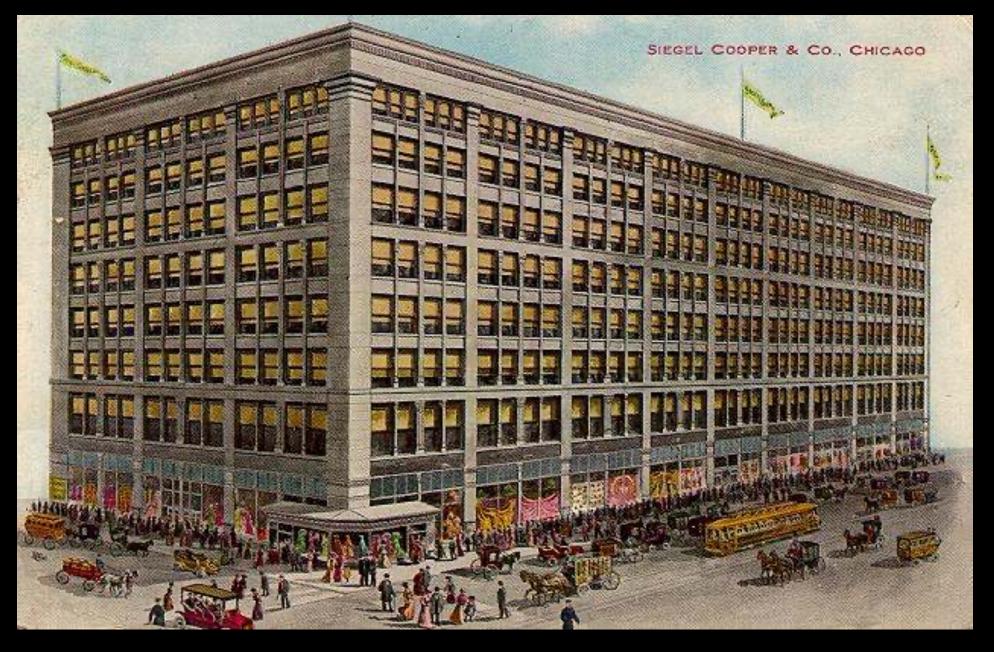




William le Baron Jenney, First Leiter Building, 1879



William le Baron Jenney, Second Leiter Building, 1890



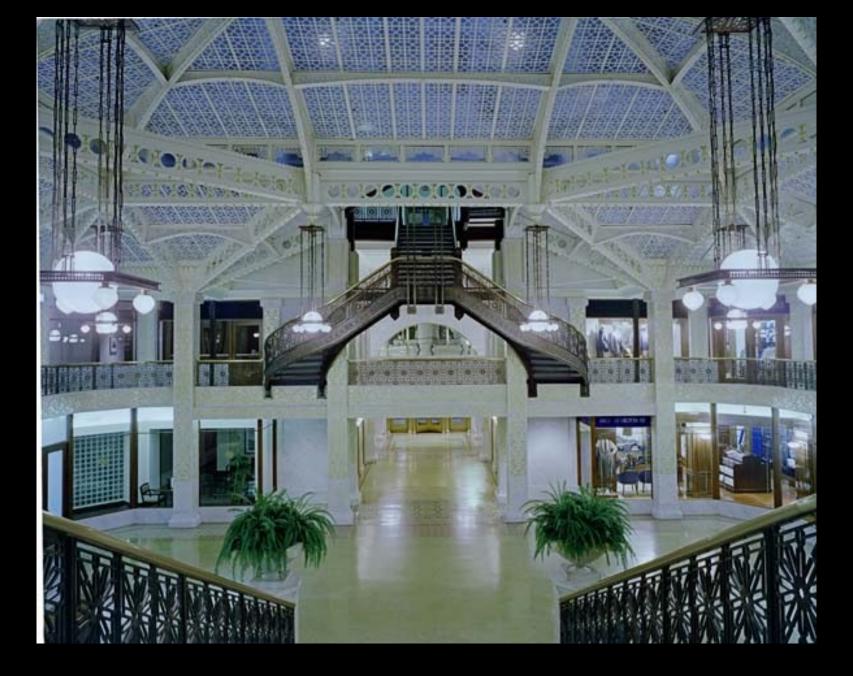
Second Leiter Building



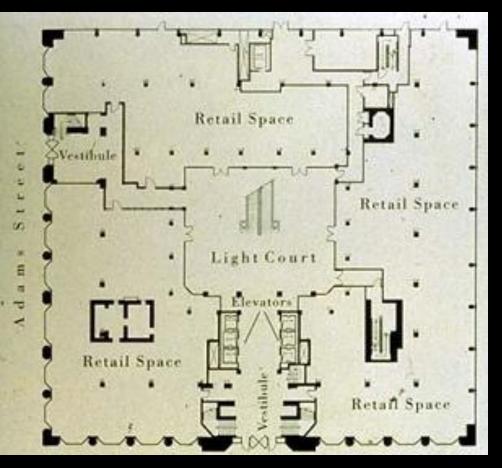


Burnham & Root, Rookery, 1886



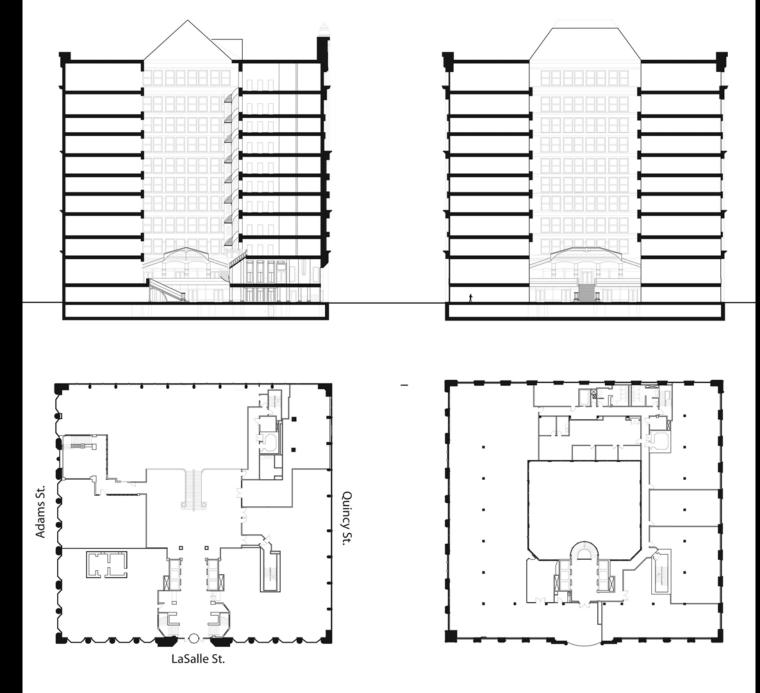


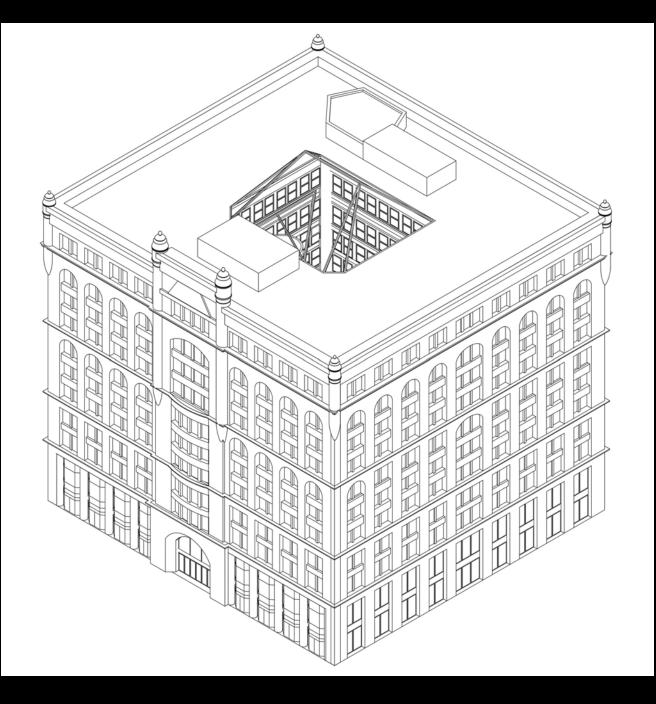
Frank Lloyd Wright, Remodeled Lobby of Rookery, 1905

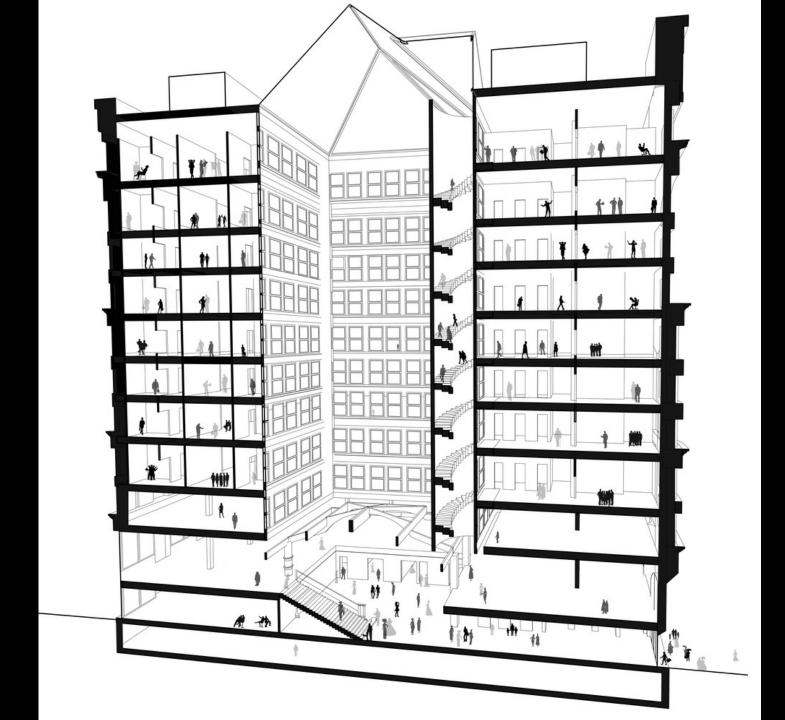




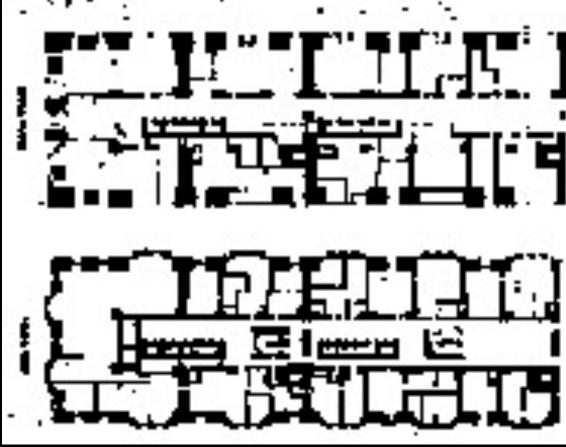












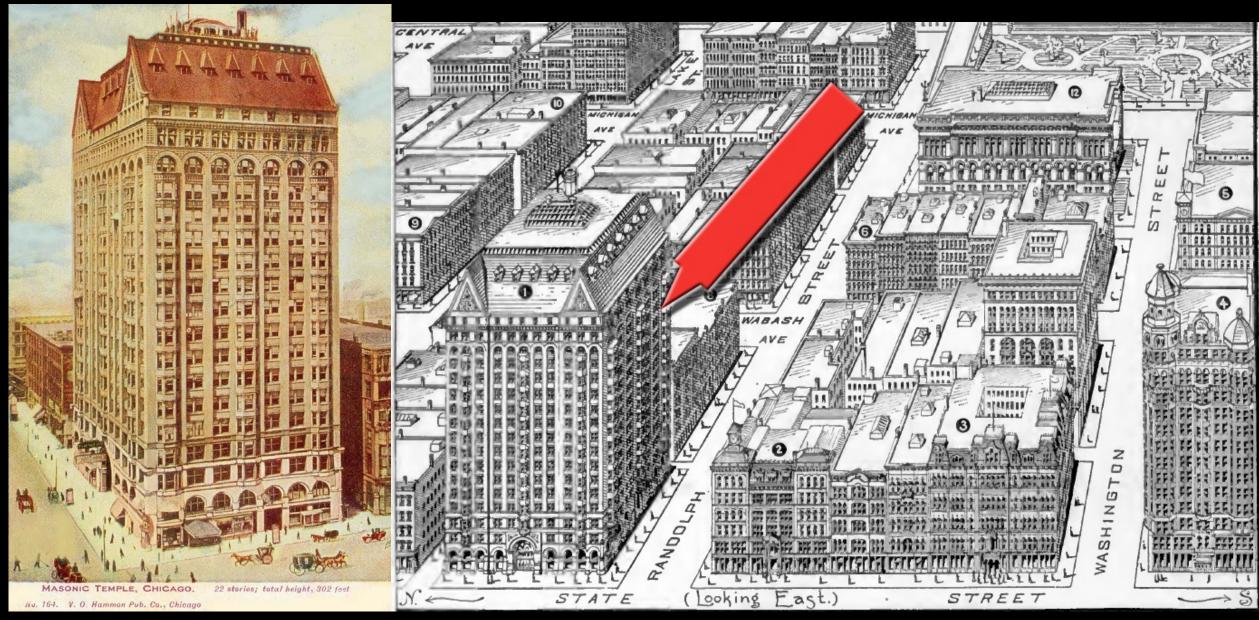
Burnham & Root, Monadnock, 1891











Burnham and Root, Masonic Temple, 1892 Masonic Temple Rand, McNally & Co.'s Bird's-eye Views and Guide to Chicago 1893





The Masonic Temple Building 1892-1939





Stairways and Galleries of the Masonic Temple, 1892



Light well/Light court



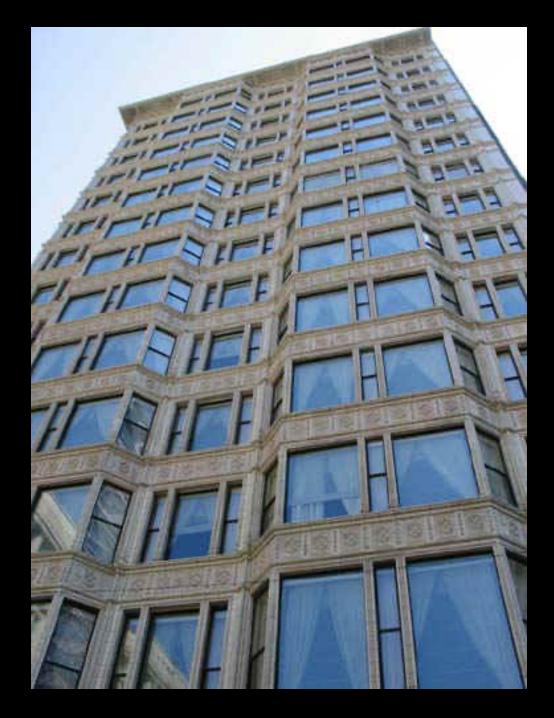
One of the many interior meeting rooms

## View of Randolph and State from the roof



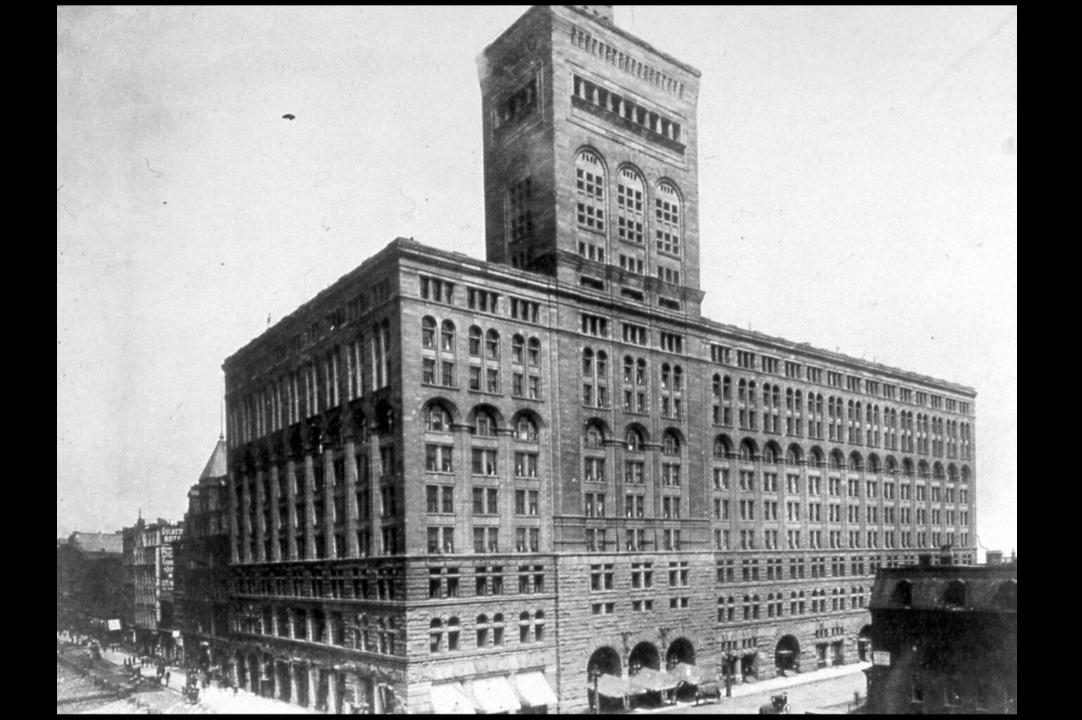
Burnham & Root, Reliance Building, 1890-95





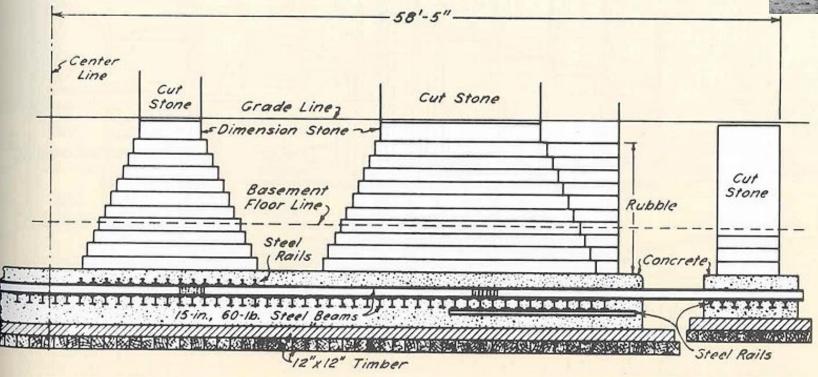


Dankmar Adler and Louis Sullivan, Auditorium Building, 1889



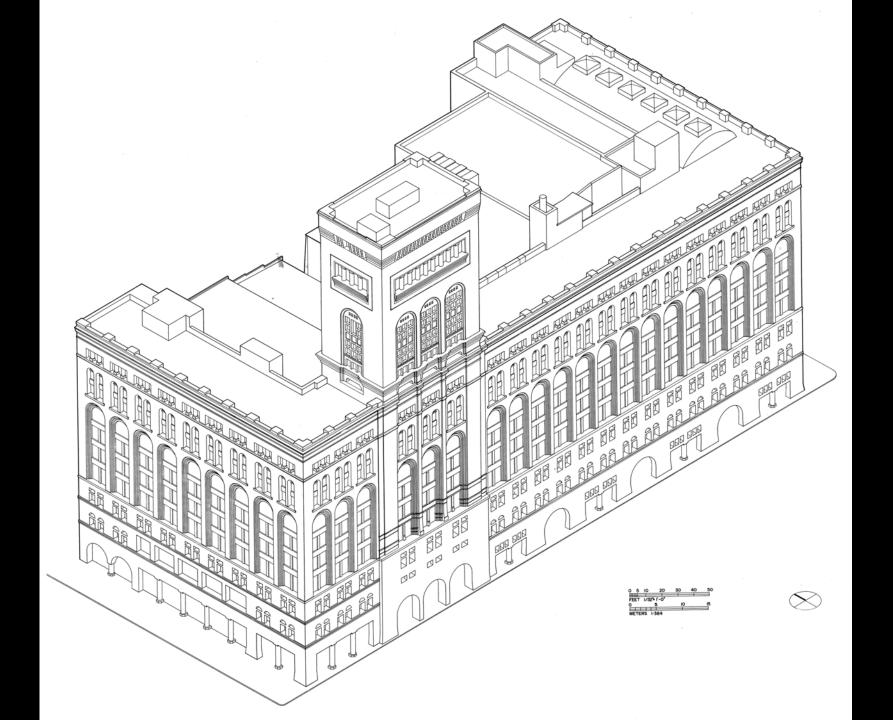
## Auditorium Building Foundations

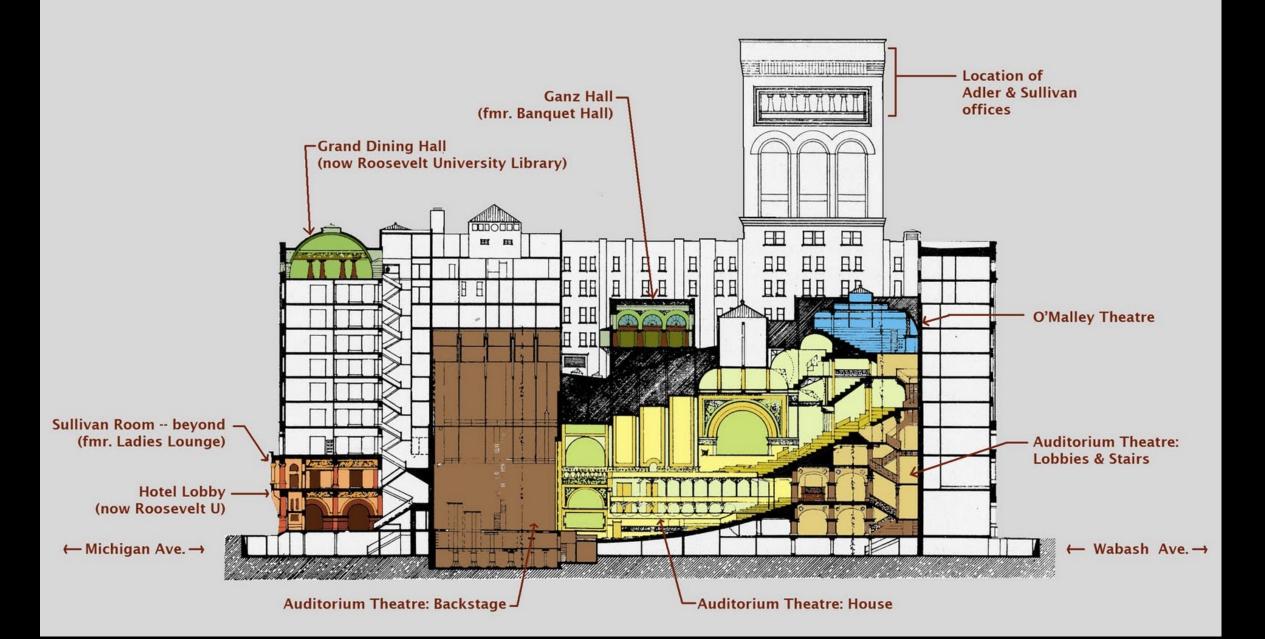


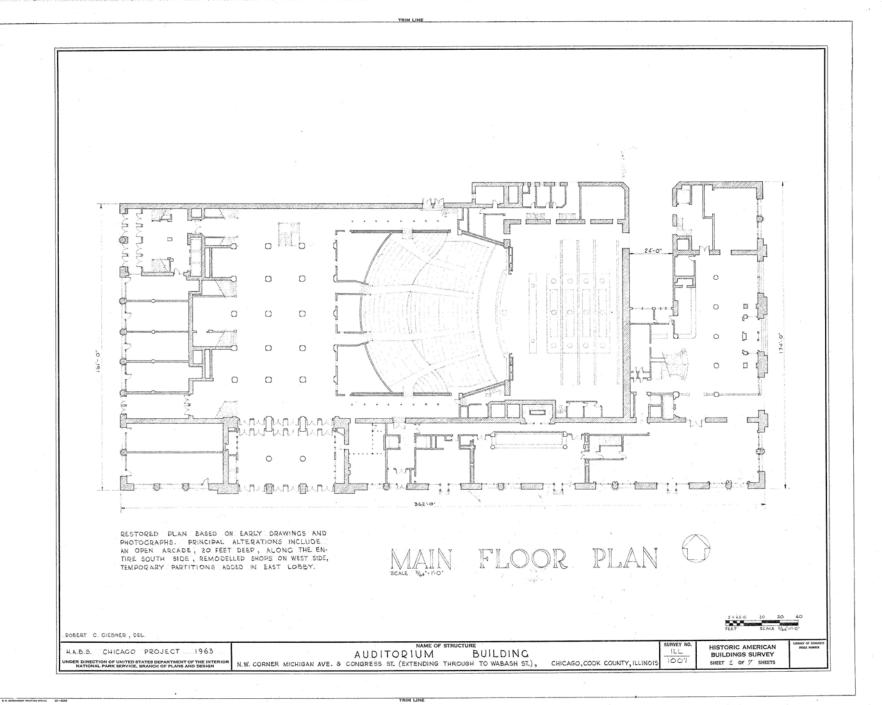






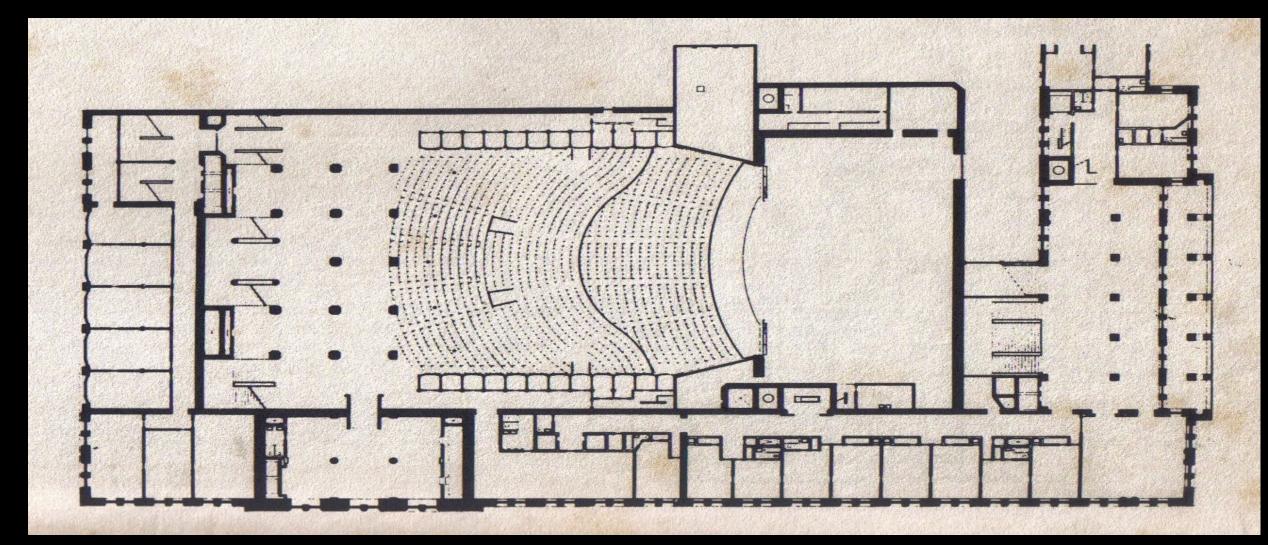


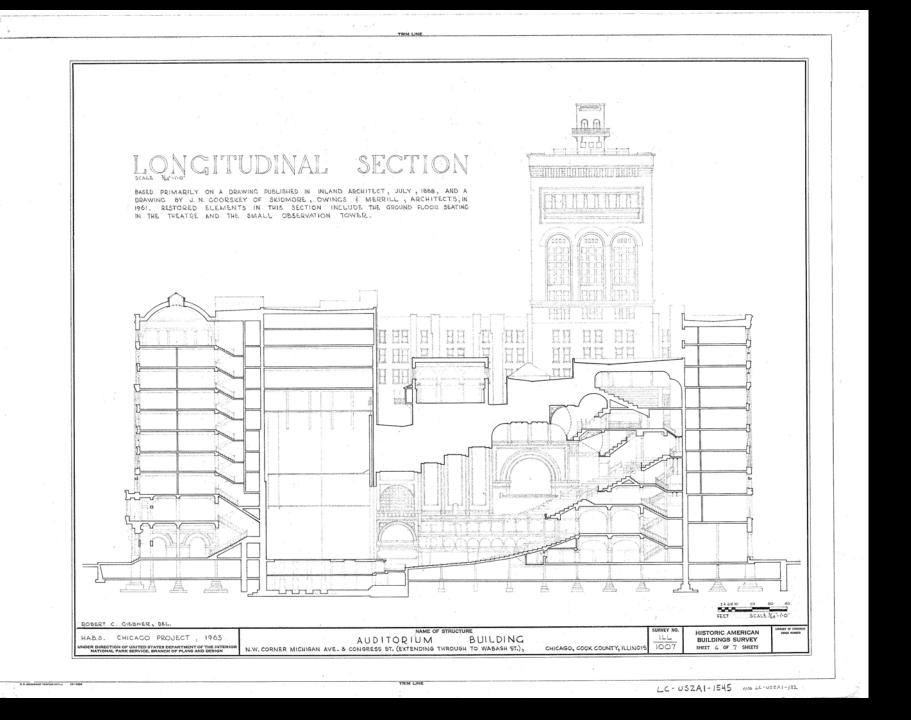


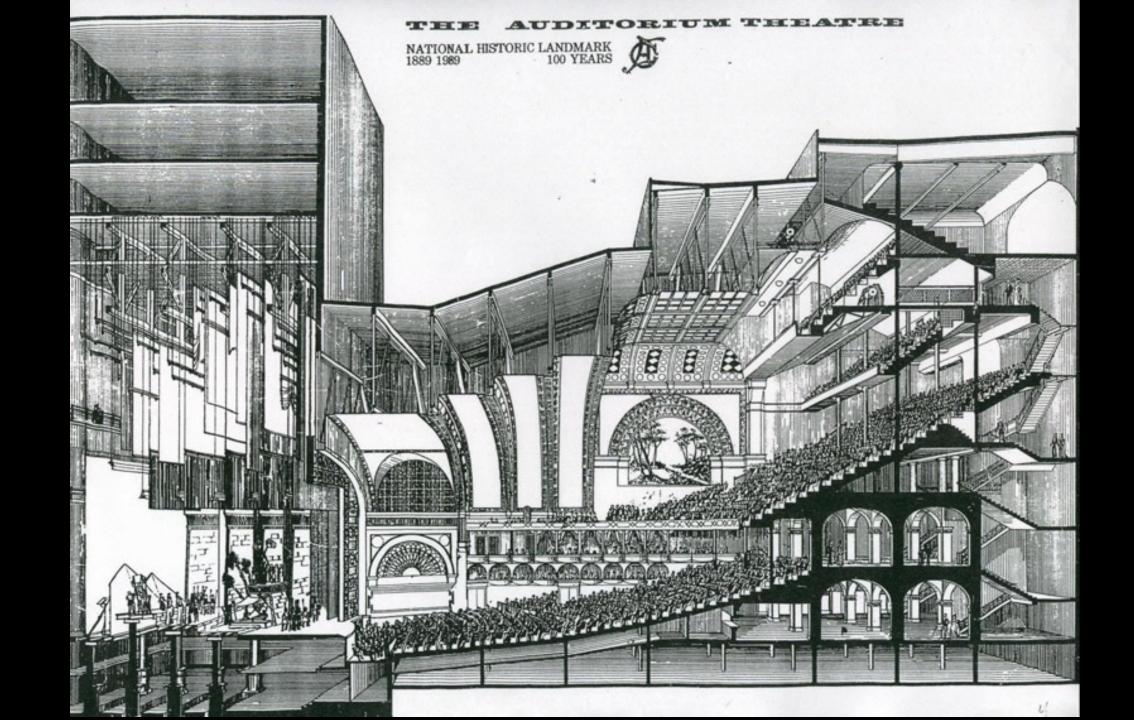


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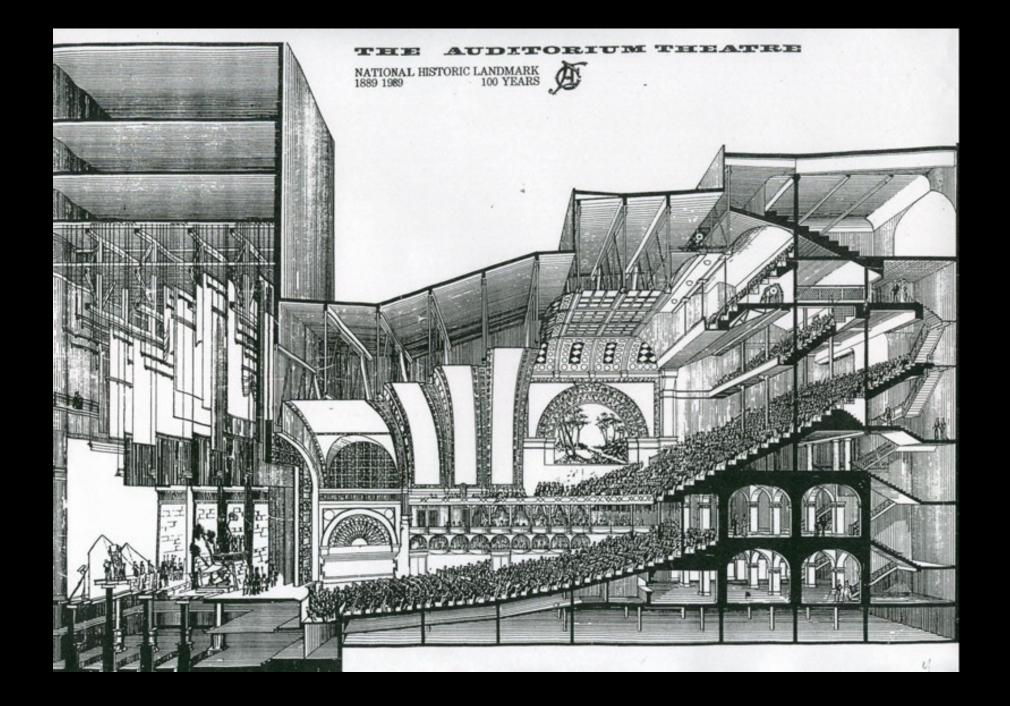


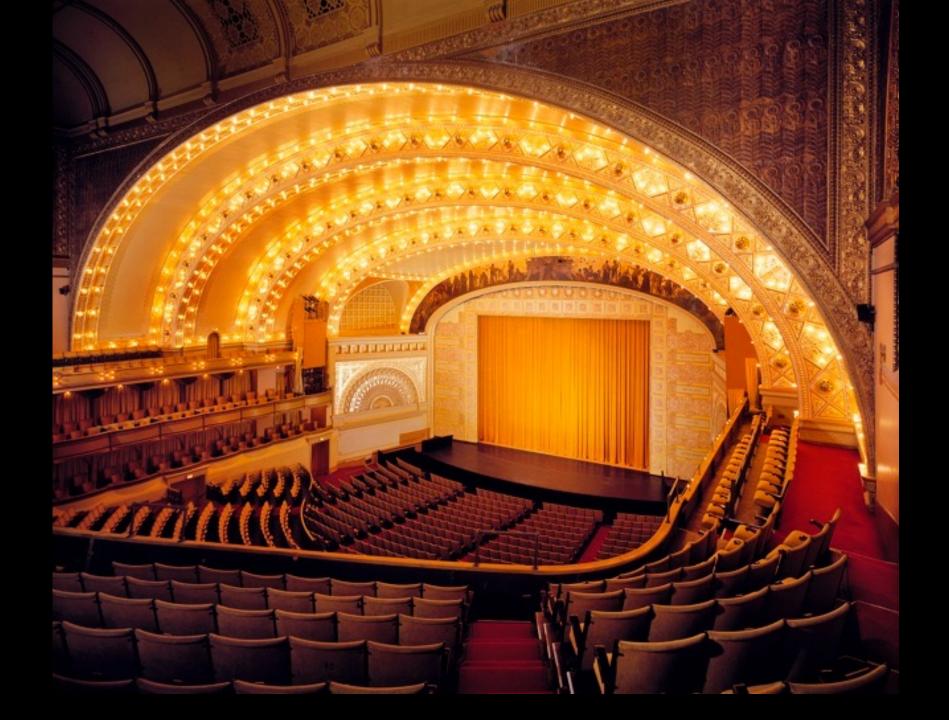






Adler & Sullivan, Transportation Building, Columbian Exposition, 1893





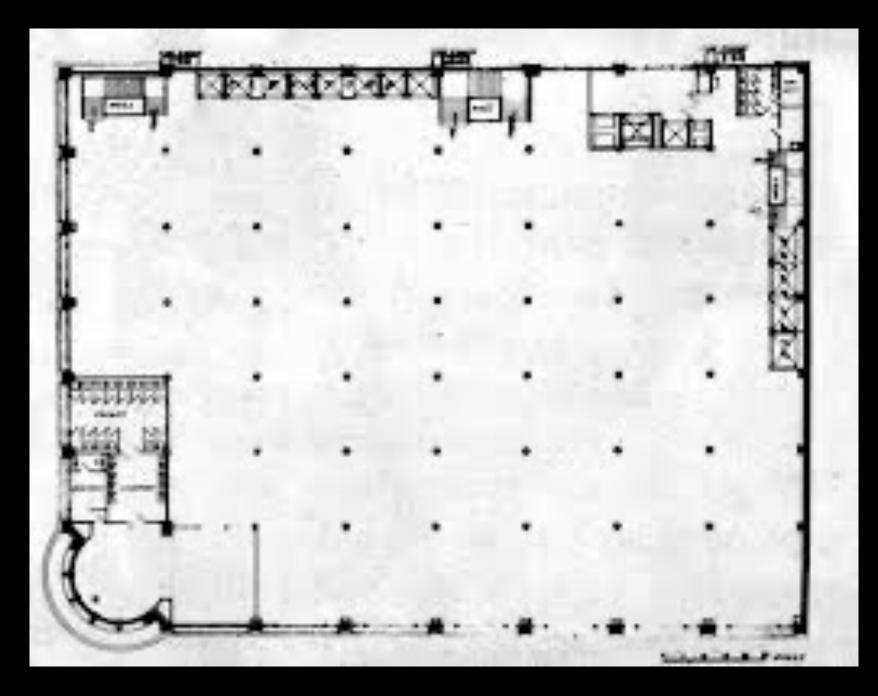


## "Form follows function." Louis Sullivan

Louis Sullivan, Carson, Pirie, Scott & Co., 1899-1904





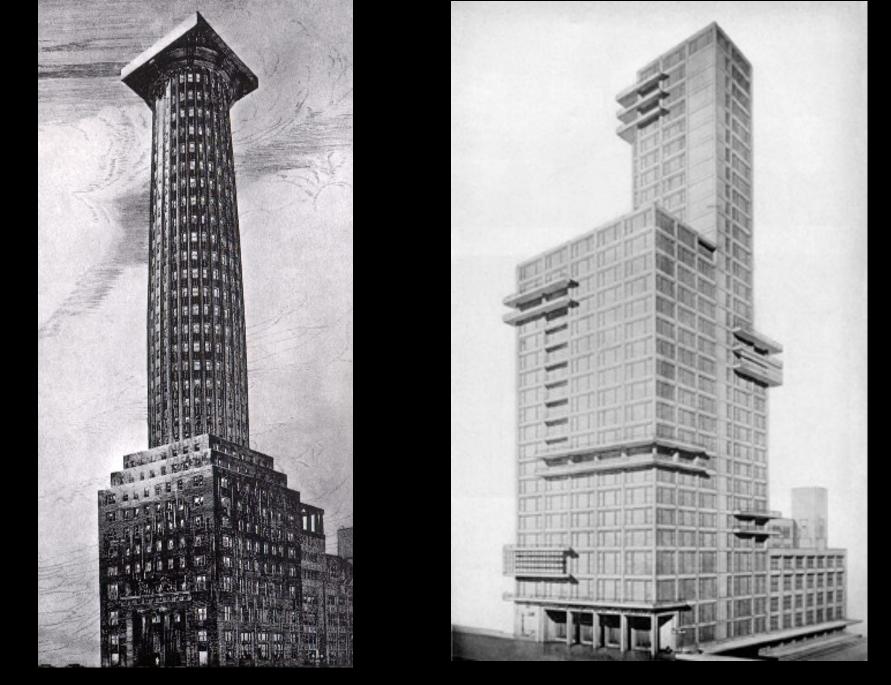




What was Louis Sullivan's position on architectural ornament?

I should say that it would be greatly for our aesthetic good if we should refrain entirely from the use of ornament for a period of years in order that our thought might concentrate acutely upon the production of buildings well formed and comely in the nude. We should thus perforce eschew many undesirable things, and learn by contrast how effective it is to think in a natural, favorous and wholesome way...We shall have learned, however, that ornament is mentally a luxury, not a necessity, for we shall have discerned the limitations as well as the great value of unadorned masses. We have in us romanticism, and feel a craving to express it. We feel intuitively that our strong, athletic, and simple forms will carry with natural ease the raiment of which we dream, and that our buildings thus clad in a garment of poetic imagery, half hid as it were in choice products of loom and mine, will appeal with redoubled power, like a sonorous melody overlaid with harmonious voices.

## Louis Sullivan, Ornament in Architecture, 1892



Adolf Loos, Tribune Tower Competition, 1922 Walter Gropius, Tribune Tower Competition, 1922



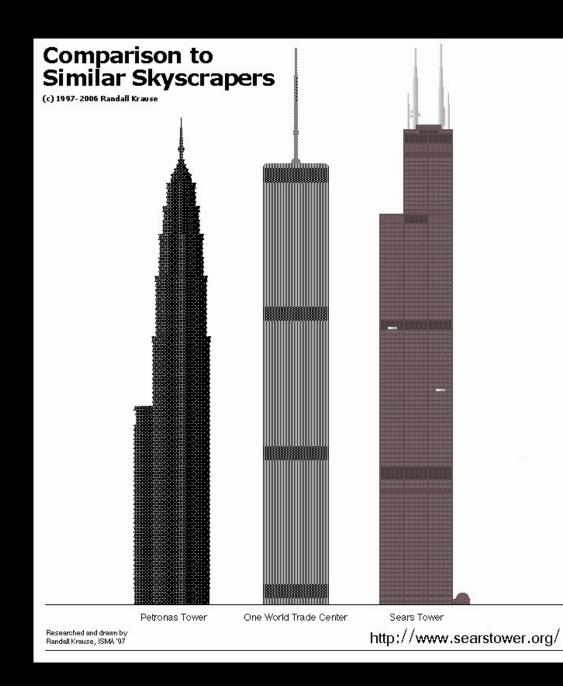


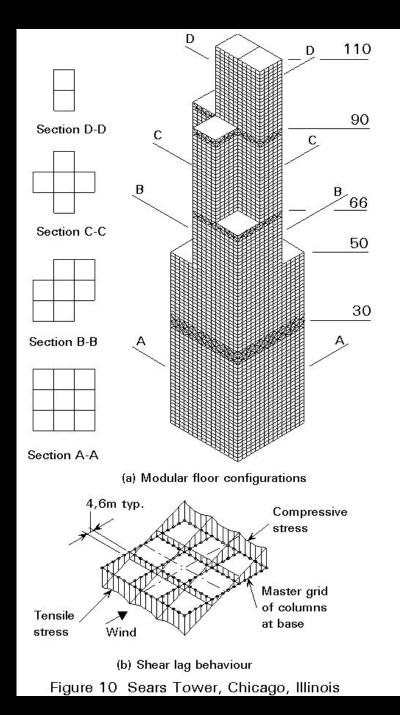
Raymond Hood and John M. Howells, Tribune Tower, 1924



Skidmore, Owings and Merrill, Fazlur Kahn and Bruce Graham, Willis Tower, formerly named Sears Tower, 1973







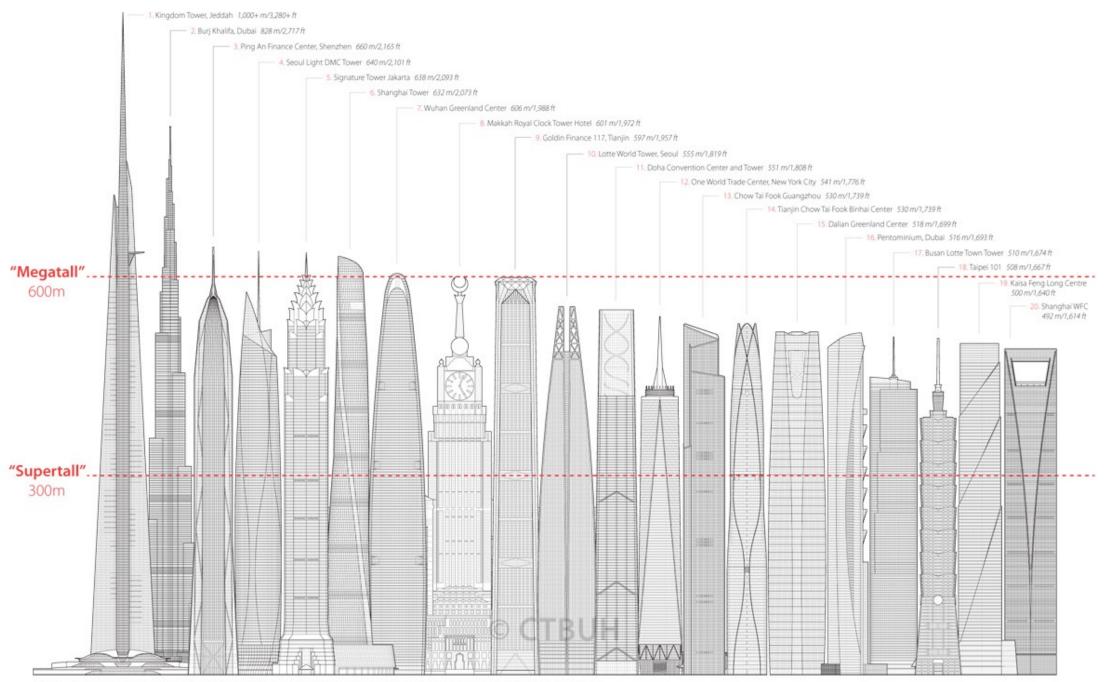


Diagram of the World's 20 Tallest in 2020 (estimated as of Dec 2011) © CTBUH

