Történeti szerkezettan

Örökségvédelem

XIV. Nagy szerkezetek
A vasút épületei

Pályaudvarok, állomások

Szempontok:

– szerkezet: nem éghető, átszellőző, bevilágított

– közlekedés: be és kimenő forgalom elválasztása

Egyoldalas

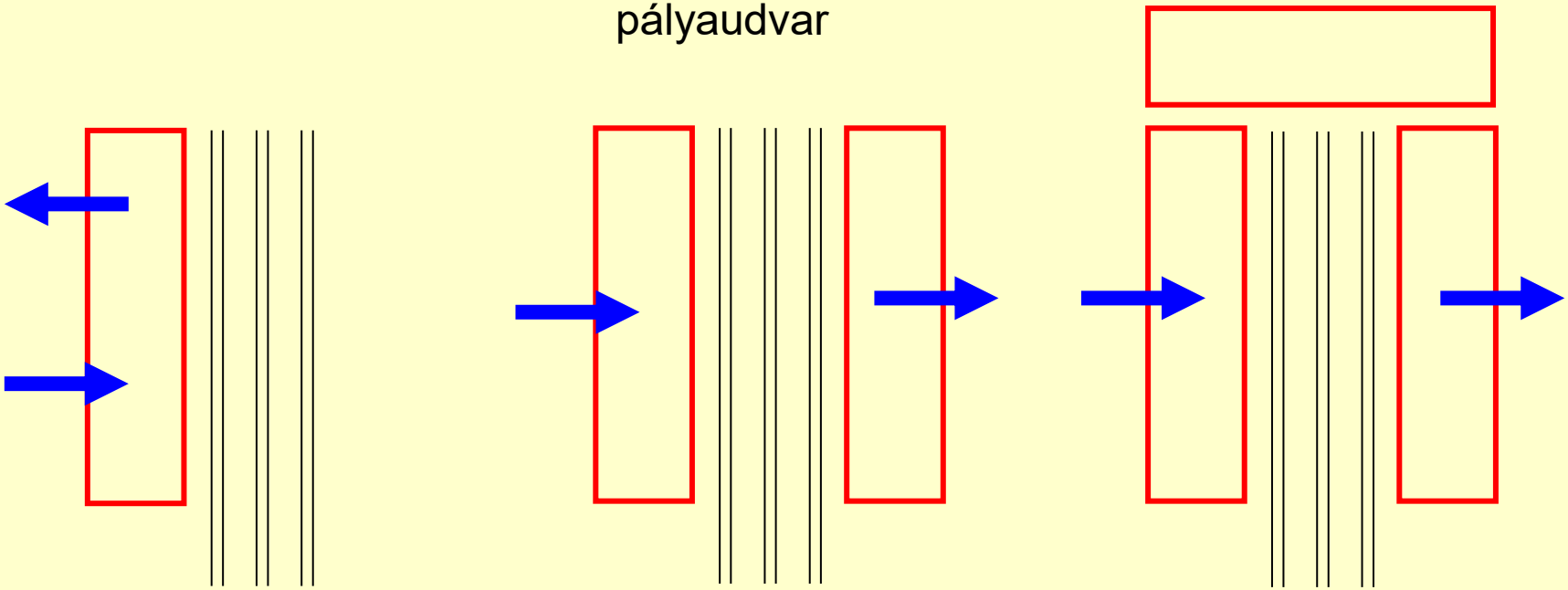
– állomás

Kétoldalas

– átmenő pályaudvar

Kétoldalas+vég

– fejpályaudvar



Pályaudvarok, állomások

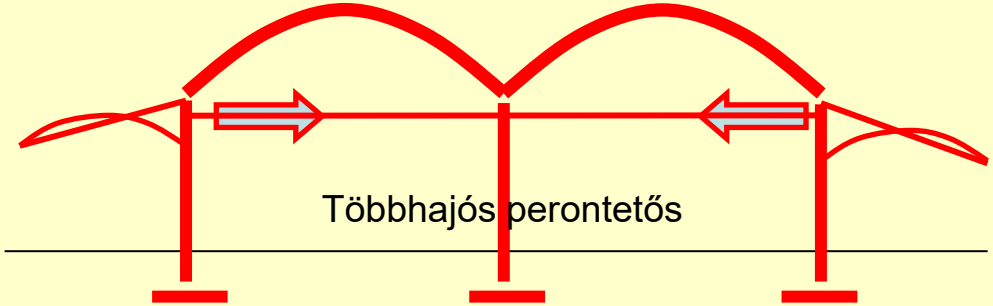
Szerkezet:

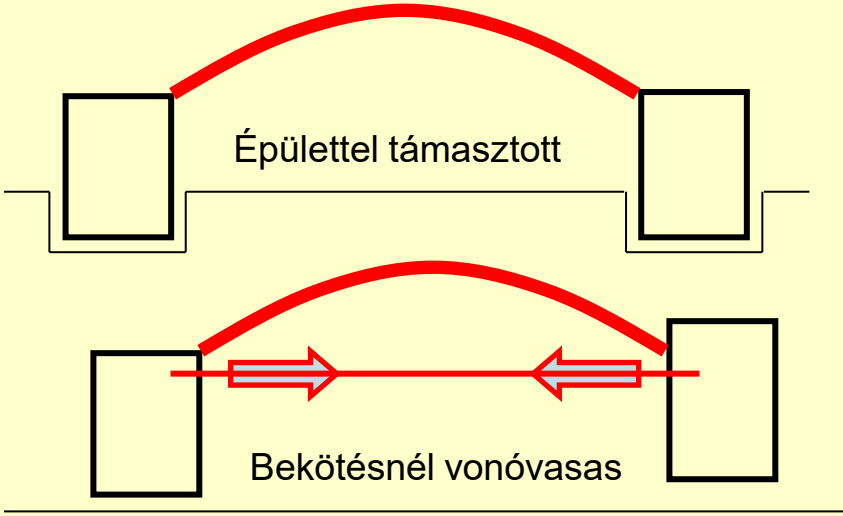
– egyenes vagy íves

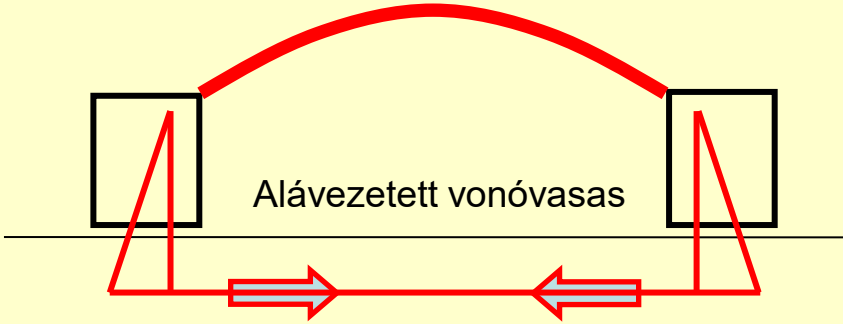
– egy- vagy többhajós

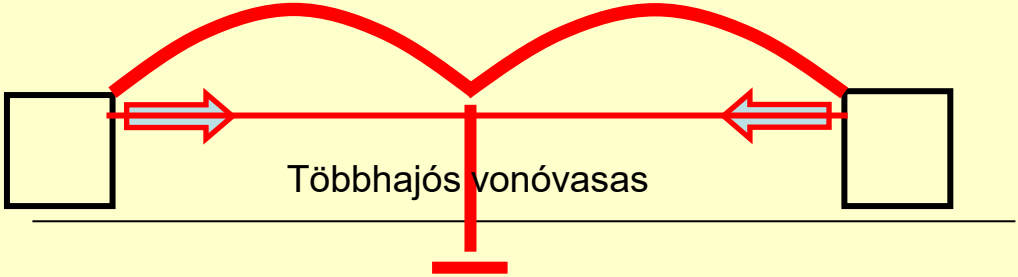
– hajók egy vagy több magasságban

– épület egy vagy több szintben









Pályaudvarok, állomások

Liverpool, Crown Street Station

?

1829

Pályaudvarok, állomások

London, Euston Station

Ph. Hardwick, R. Stephenson

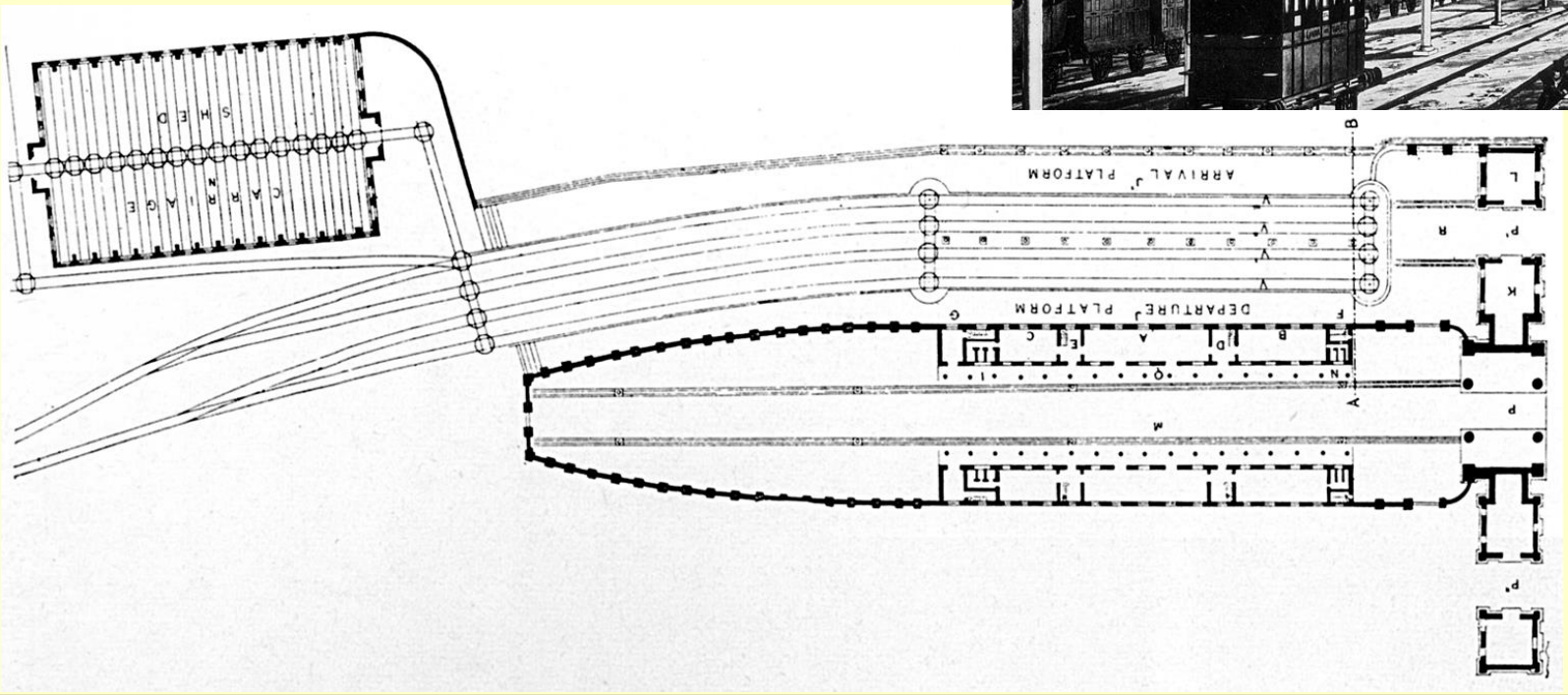
1835-1839

Pályaudvarok, állomások

London, Euston Station

Ph. Hardwick, R. Stephenson

1835-1839

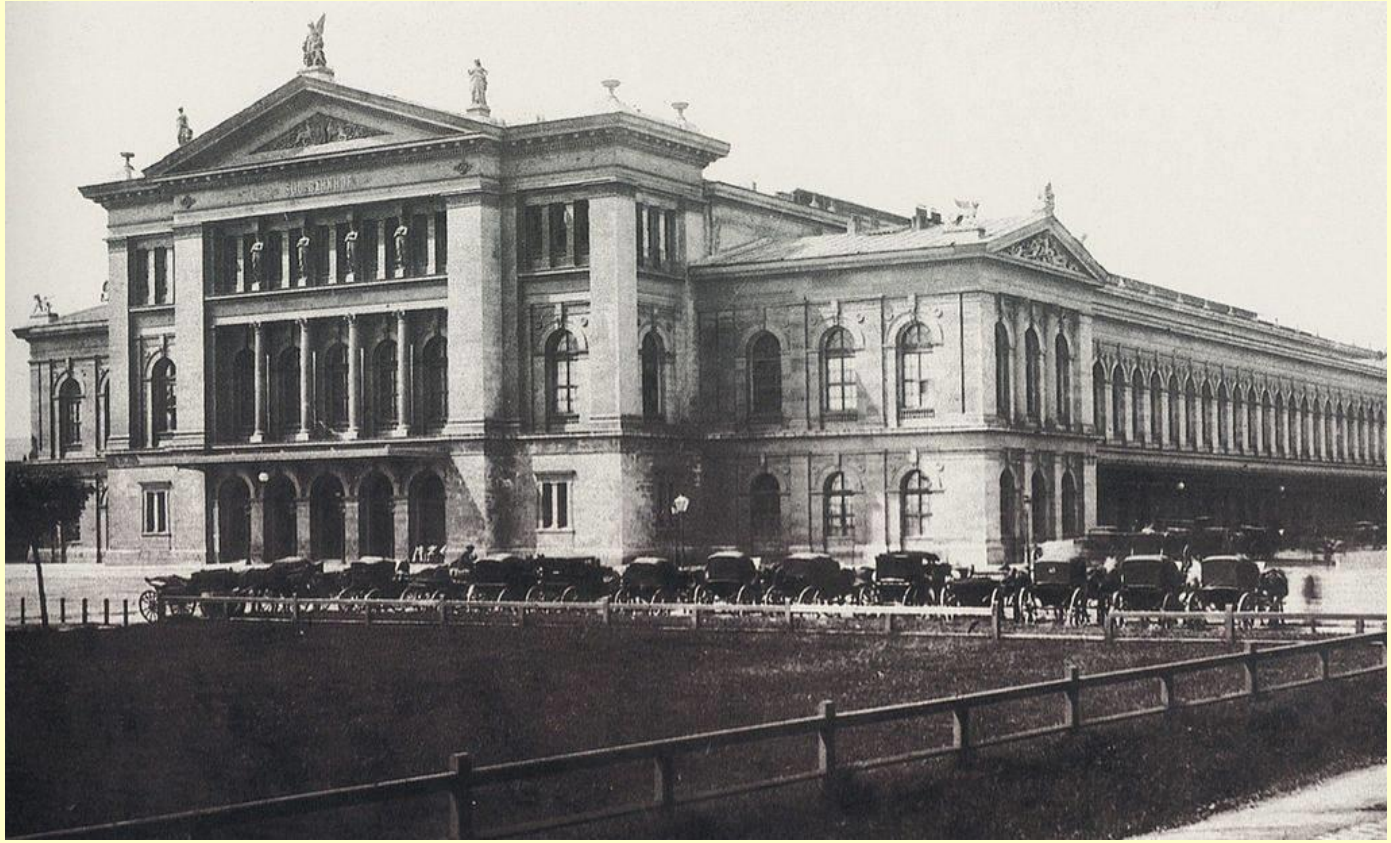


Pályaudvarok, állomások

Bécs, Südbahnhof

M. Schönerer

1841-1846

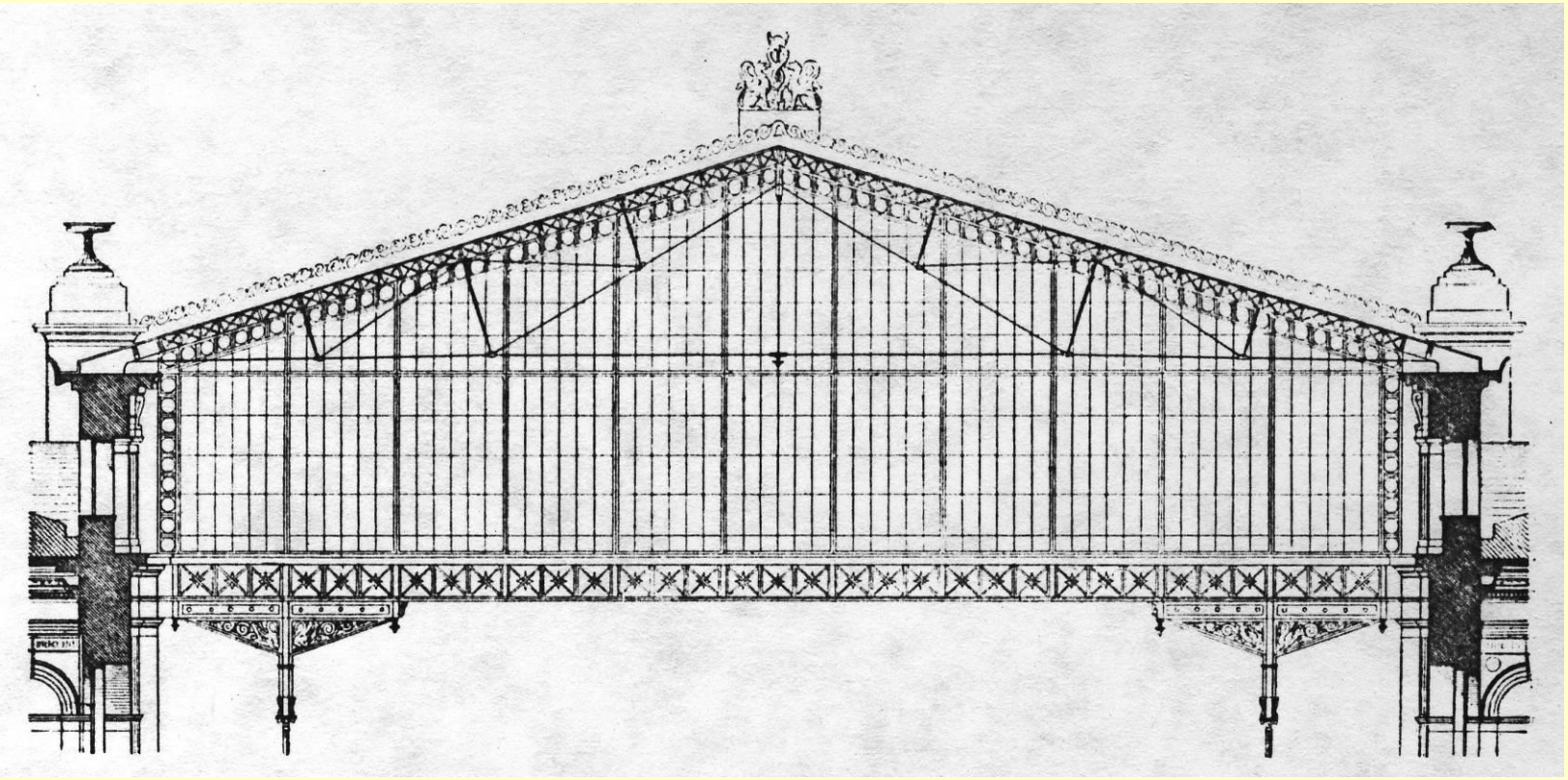


Pályaudvarok, állomások

Bécs, Südbahnhof

M. Schönerer

1841-1846

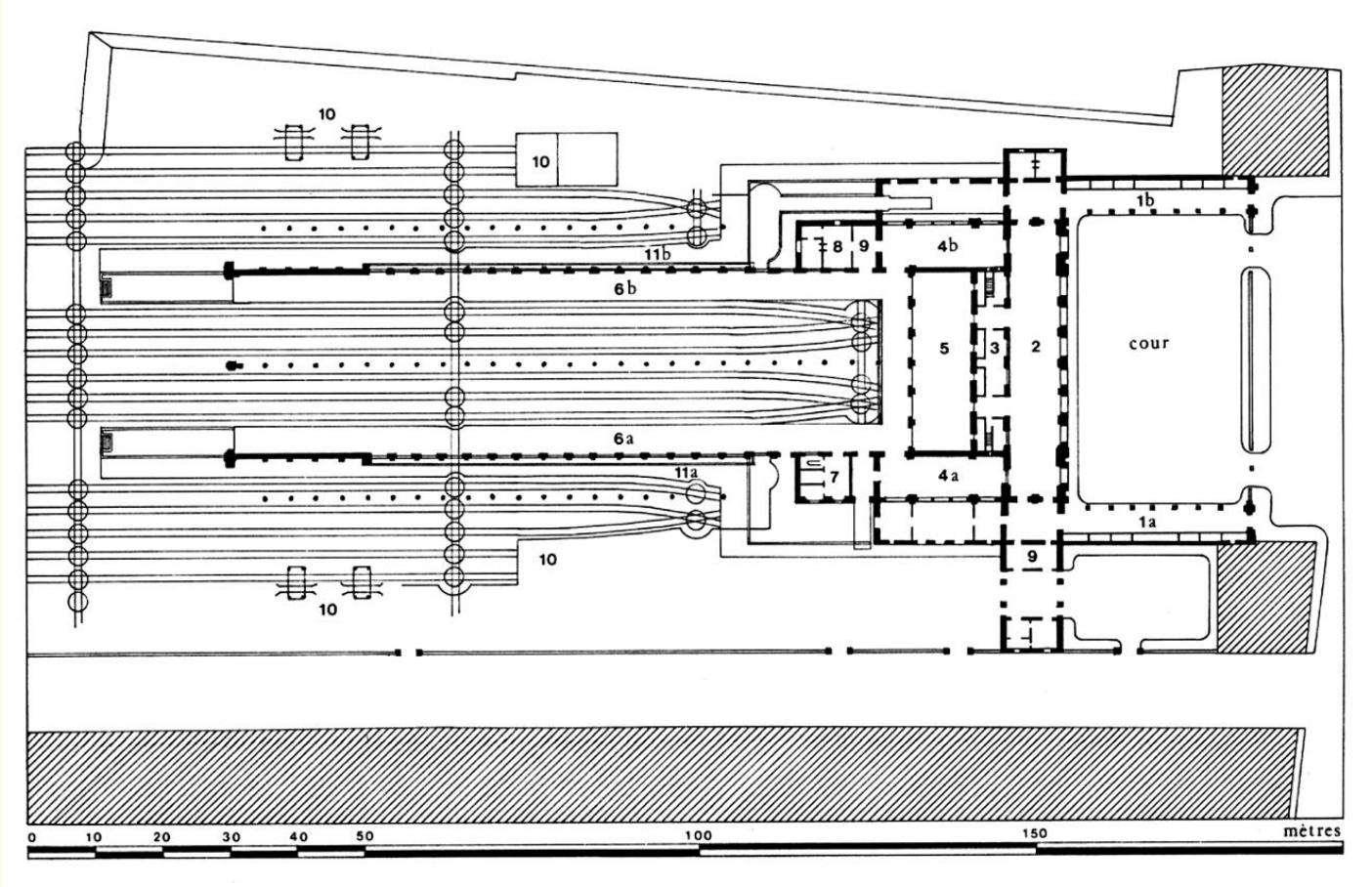


Pályaudvarok, állomások

Párizs, első Gare du Nord

L. Reynaud

1842-1846



Pályaudvarok, állomások

Párizs, első Gare du Nord

L. Reynaud

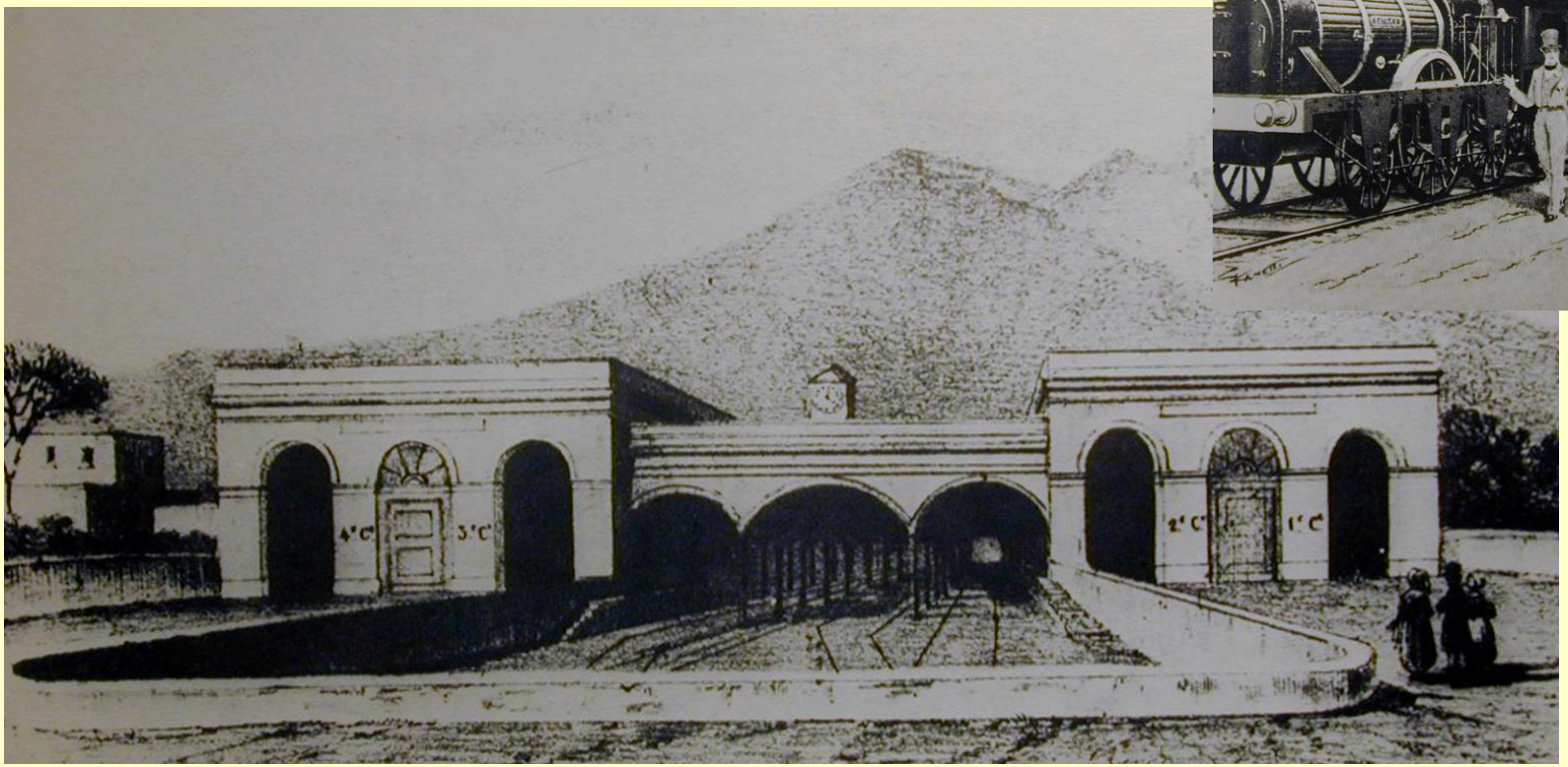
1842-1846

Pályaudvarok, állomások

Nápoly, Stazione al Carmine

?

1843



Pályaudvarok, állomások

Nápoly, Stazione al Carmine

?

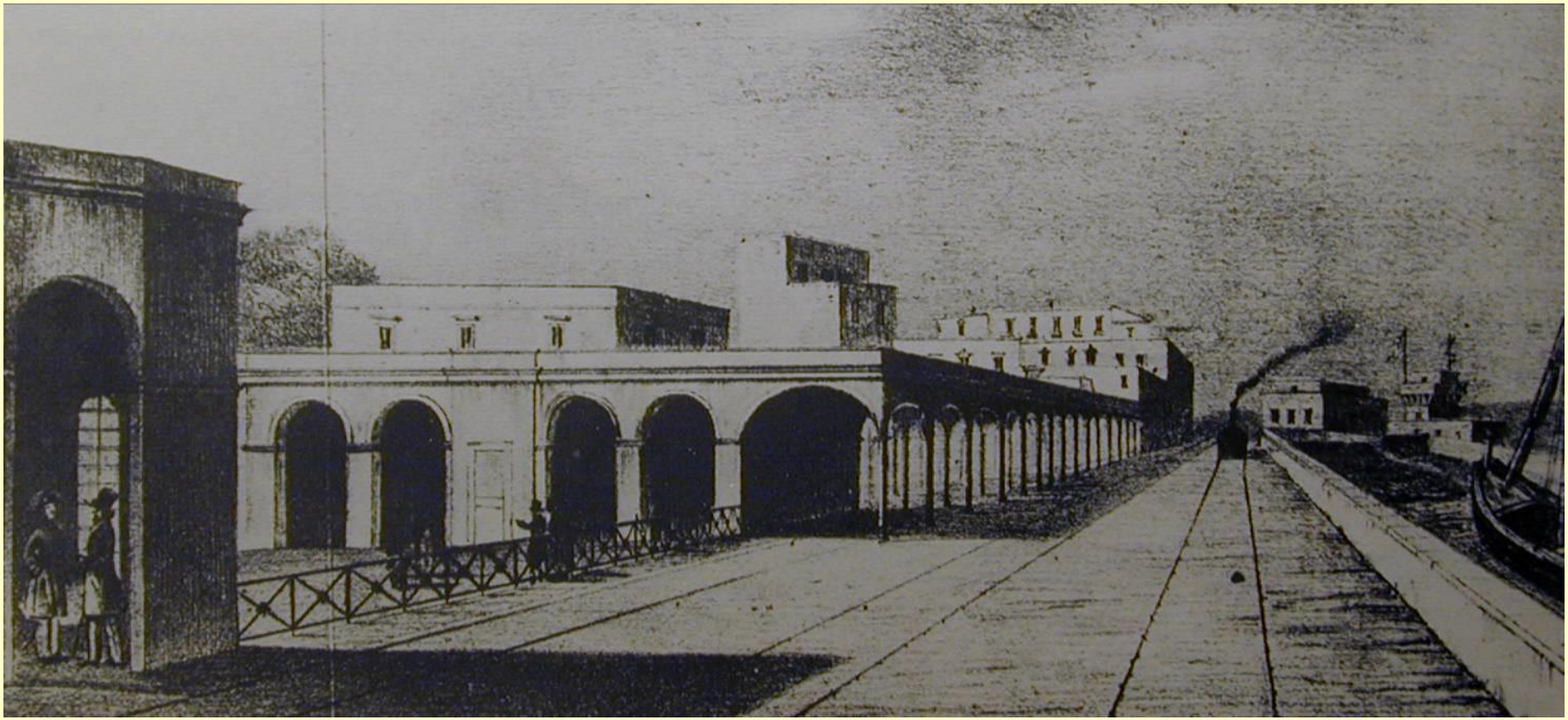
1843

Pályaudvarok, állomások

Nápoly, Stazione del Granatello

?

1845 k.



Pályaudvarok, állomások

London, Great Joint Station

H. Roberts

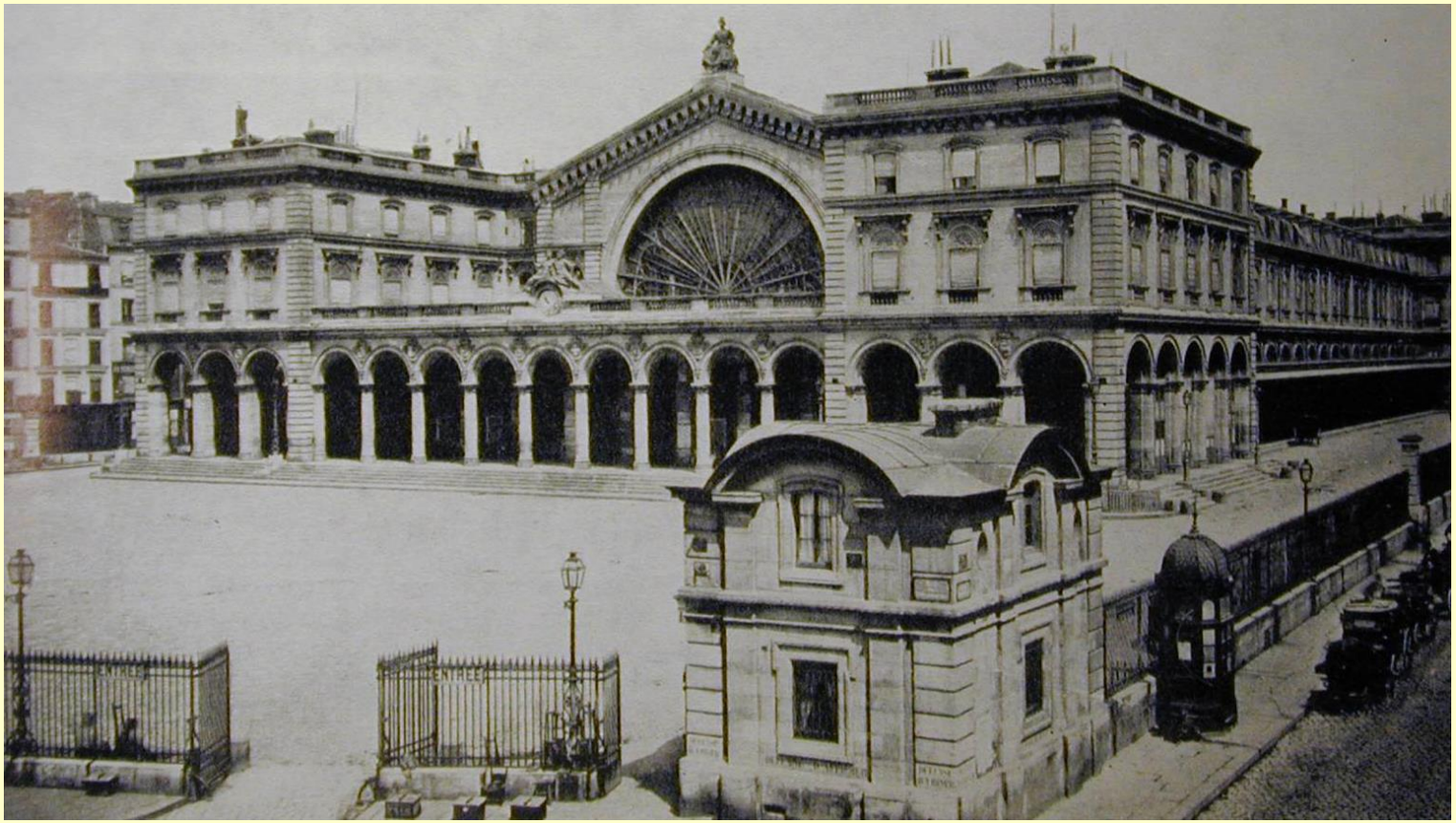
1844

Pályaudvarok, állomások

Párizs, Gare L'Est

F. A. Duquesney

1847-1852

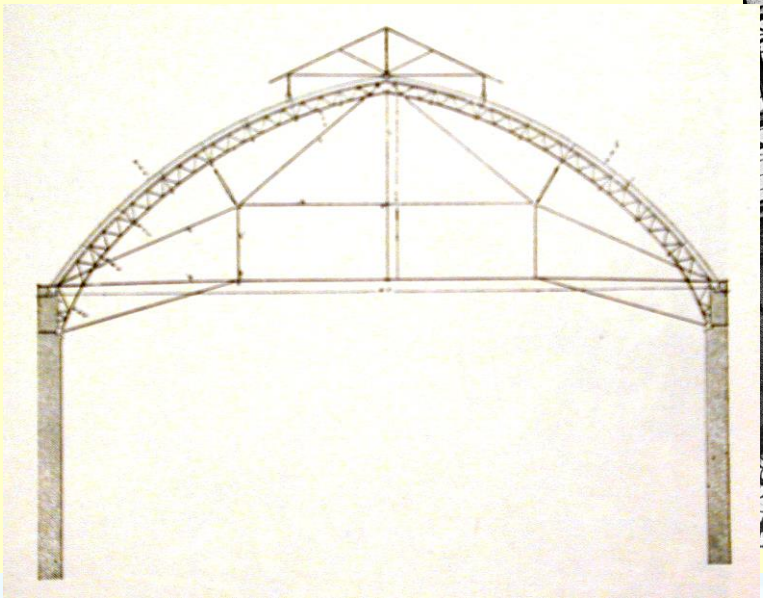


Pályaudvarok, állomások

Párizs, Gare L'Est

F. A. Duquesney

1847-1852

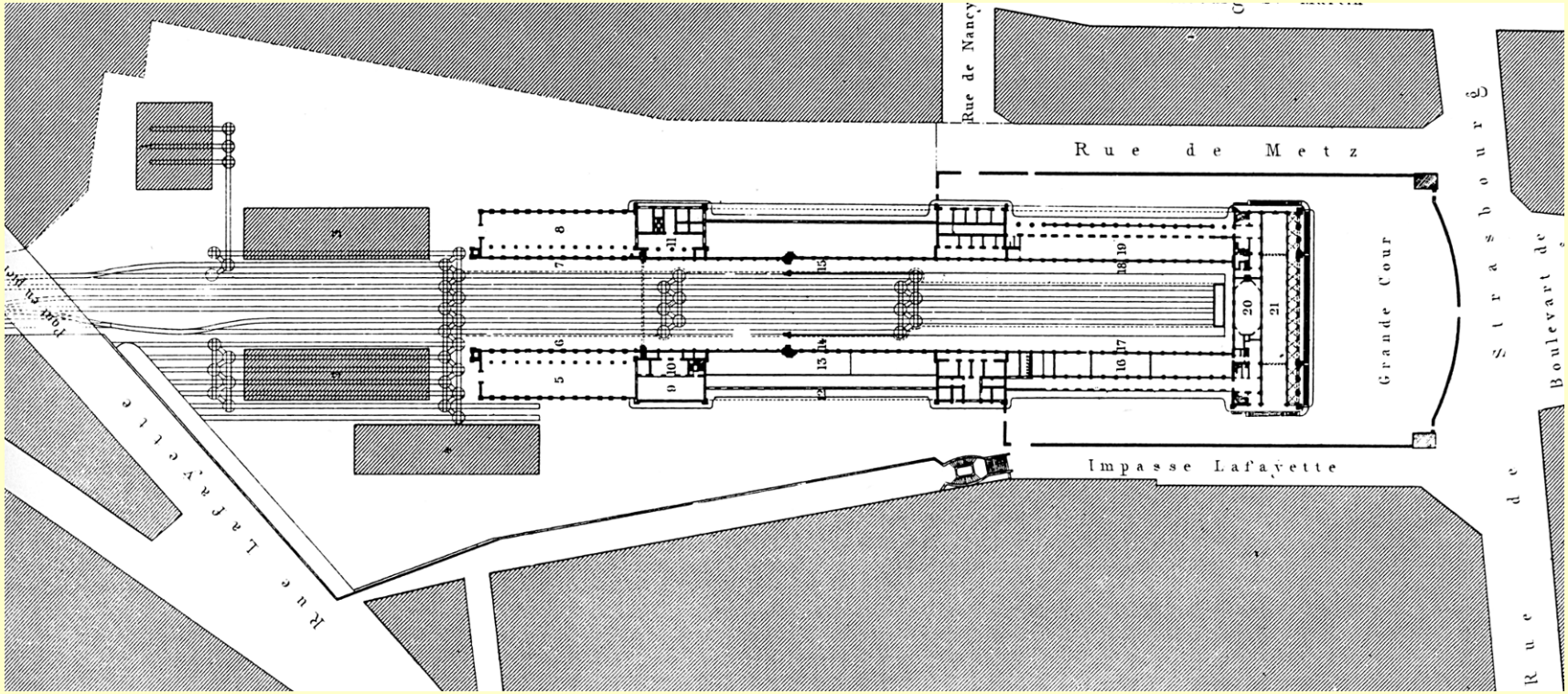


Pályaudvarok, állomások

Párizs, Gare L'Est

F. A. Duquesney

1847-1852

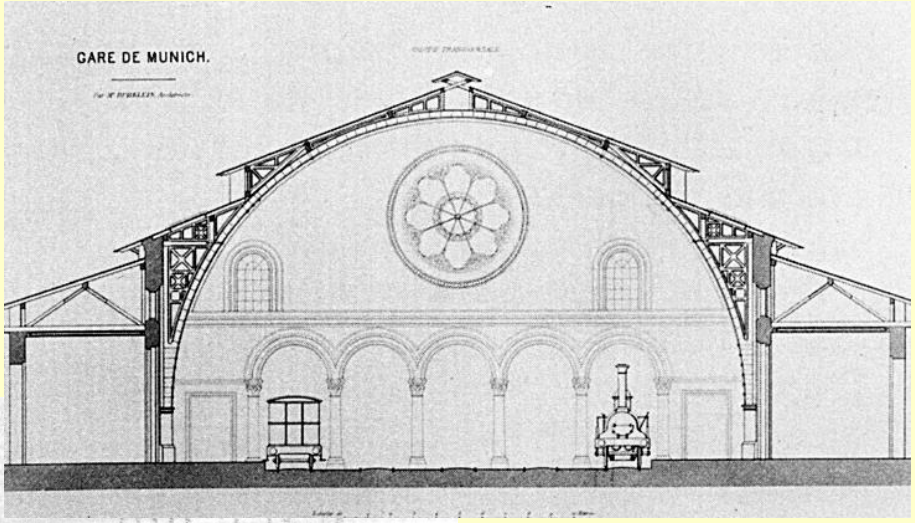


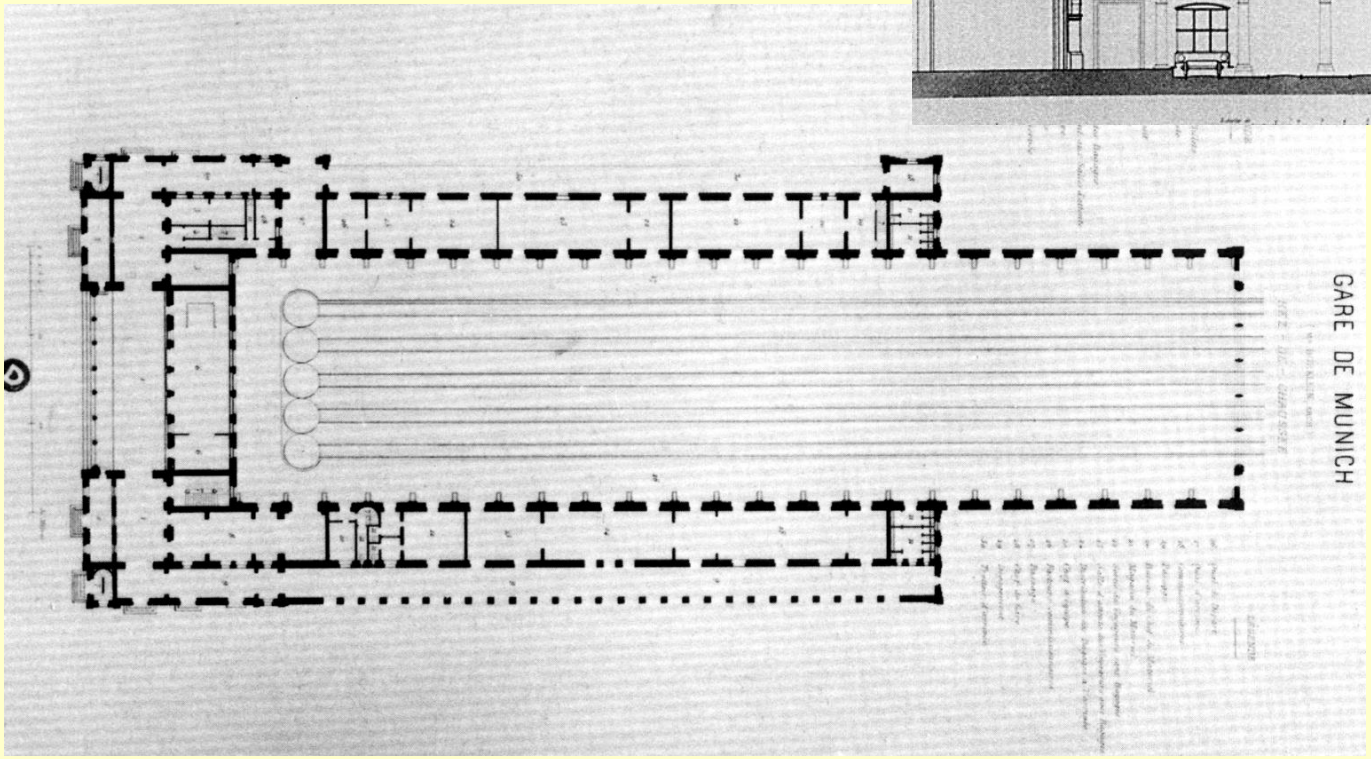
Pályaudvarok, állomások

München, Pályaudvar

Fr. Bürklein

1849





Pályaudvarok, állomások

London, King Cross Station

L. Cubbitt

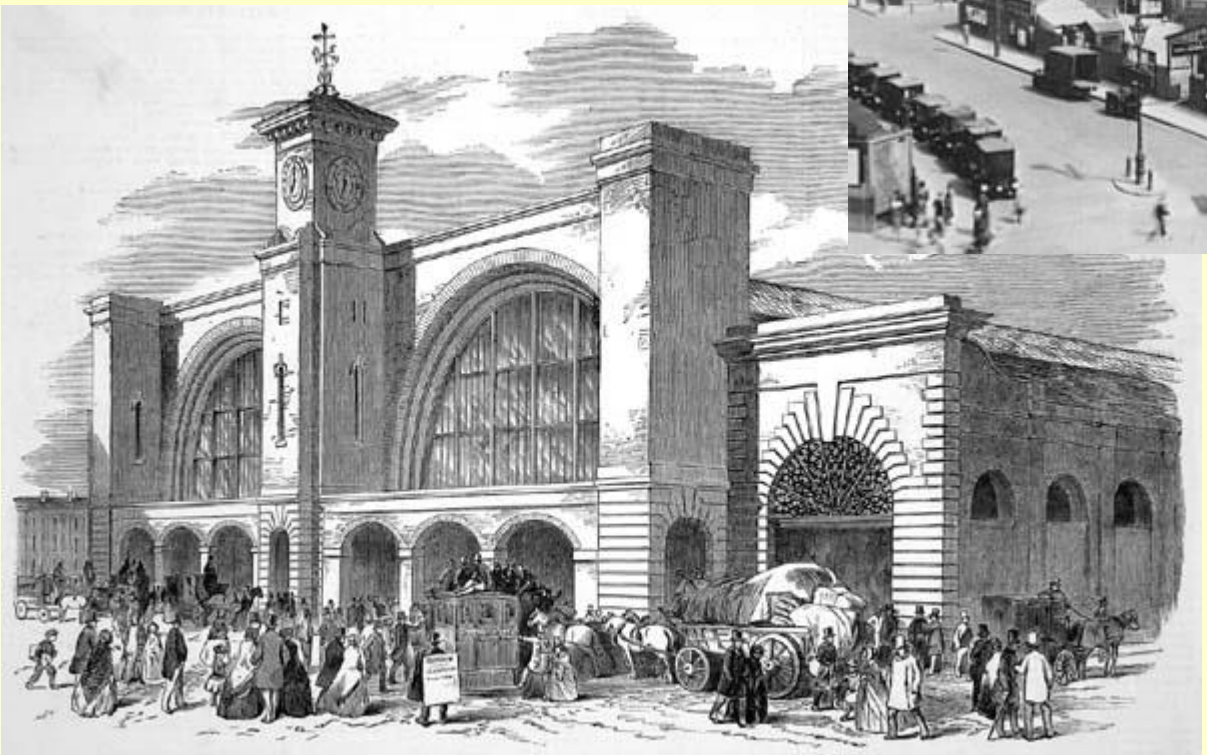
1851-1852

Pályaudvarok, állomások

London, King Cross Station

L. Cubbitt

1851-1852

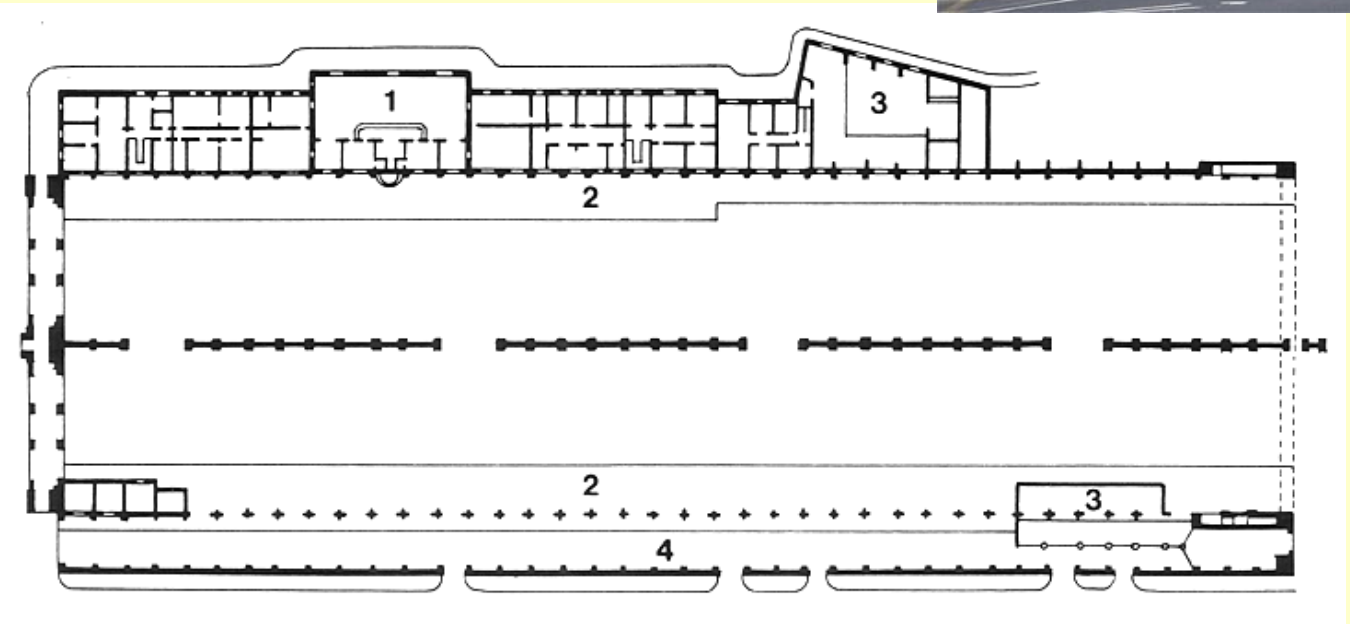


Pályaudvarok, állomások

London, King Cross Station

L. Cubbitt

1851-1852

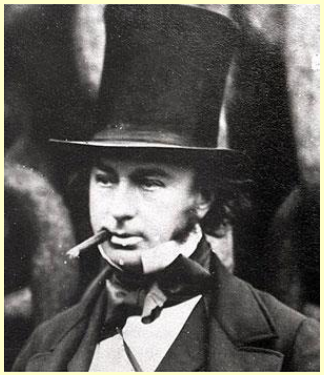


Pályaudvarok, állomások

London, Paddington Station

I. K. Brunel, M. Digby Watt

1852-1854



Pályaudvarok, állomások

London, Paddington Station

I. K. Brunel, M. Digby Watt

1852-1854

Pályaudvarok, állomások

Lyon, Gare de Lyon

F. A. Cendrier

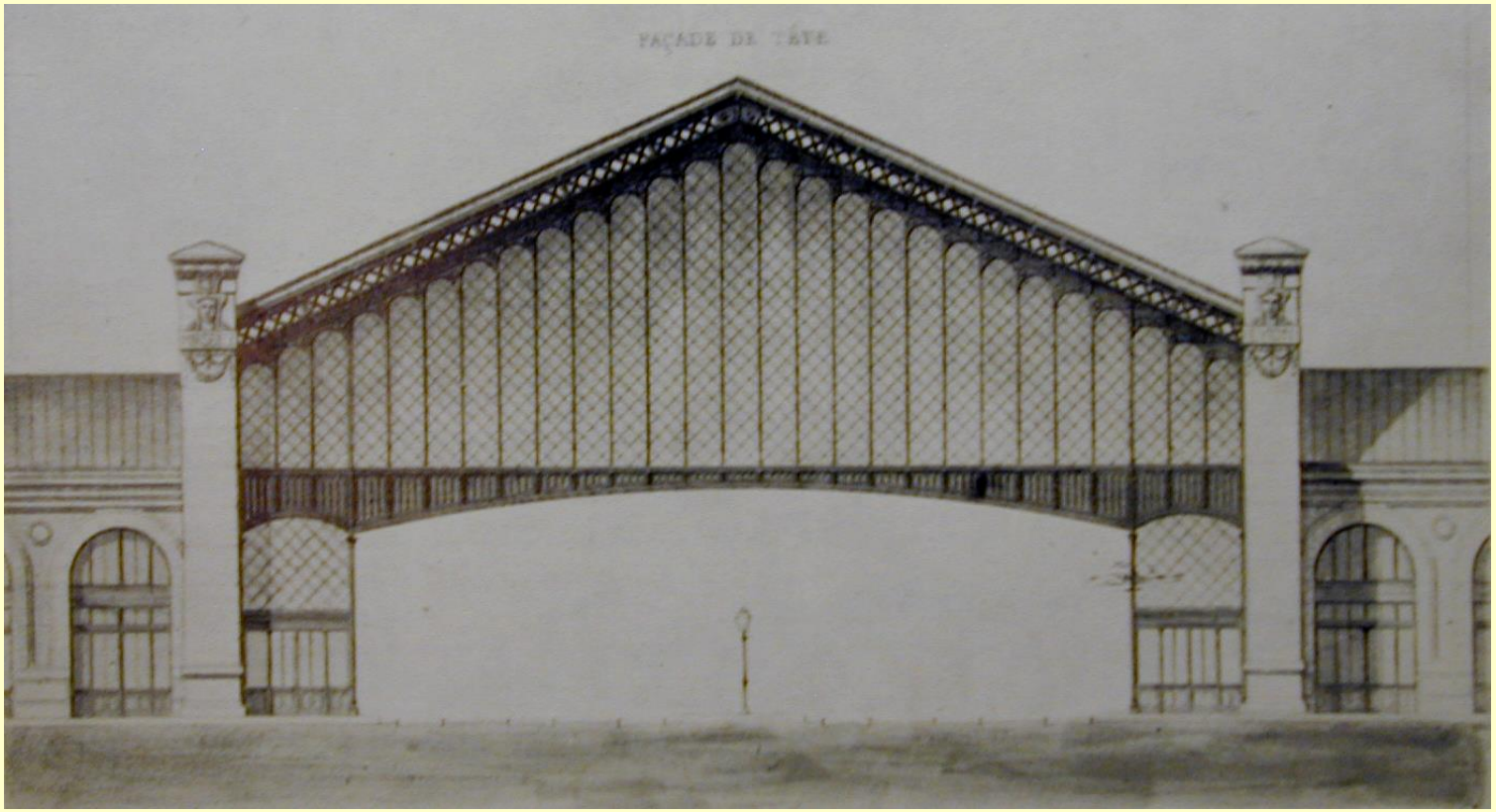
1855

Pályaudvarok, állomások

Lyon, Gare de Lyon

F. A. Cendrier

1855

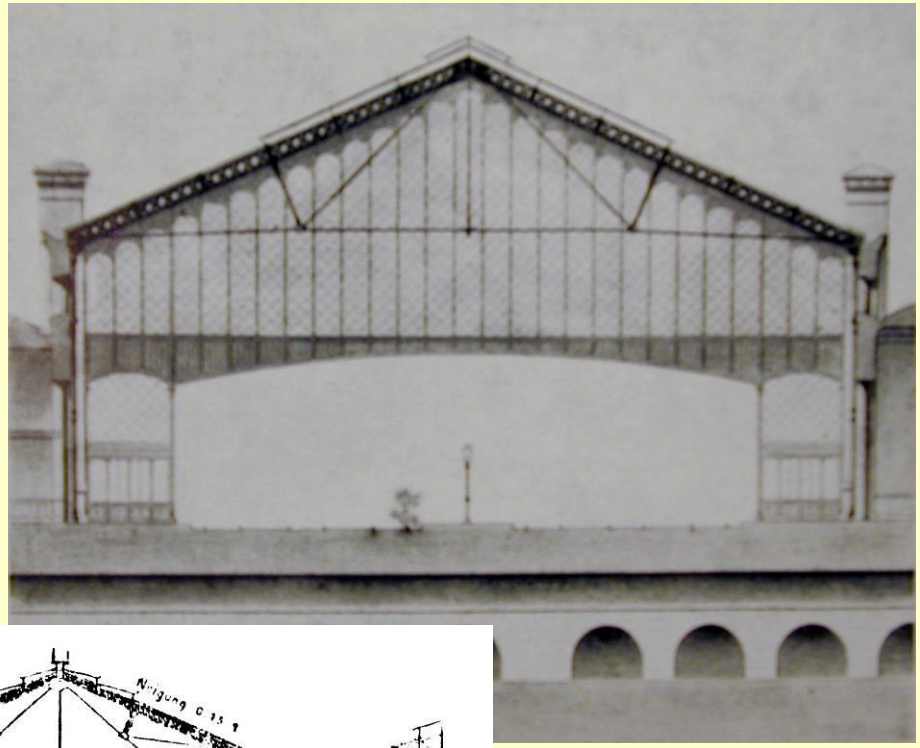


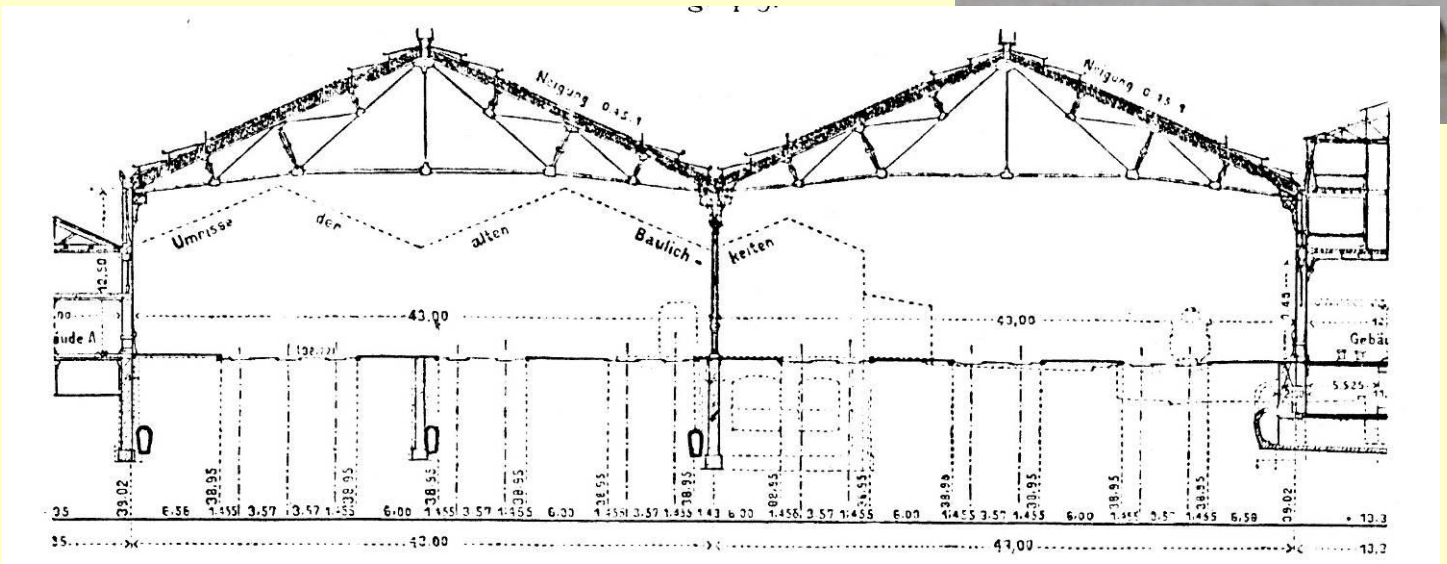
Pályaudvarok, állomások

Lyon, Gare de Lyon

F. A. Cendrier

1855

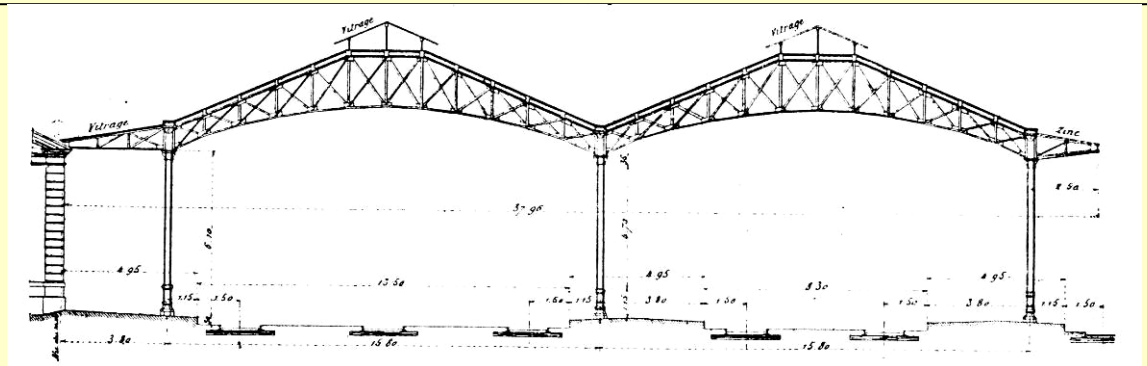




Pályaudvarok, állomások

A közepes szerkezet etalonja

Gray (Haute-Saône)

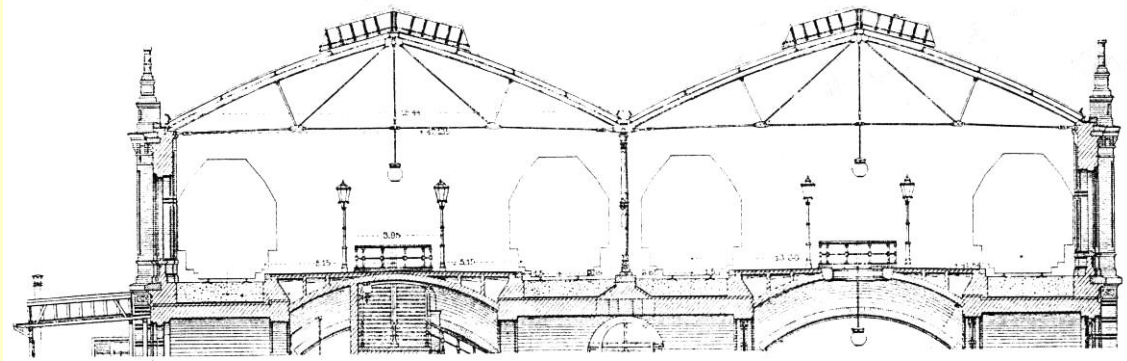


Befogás?

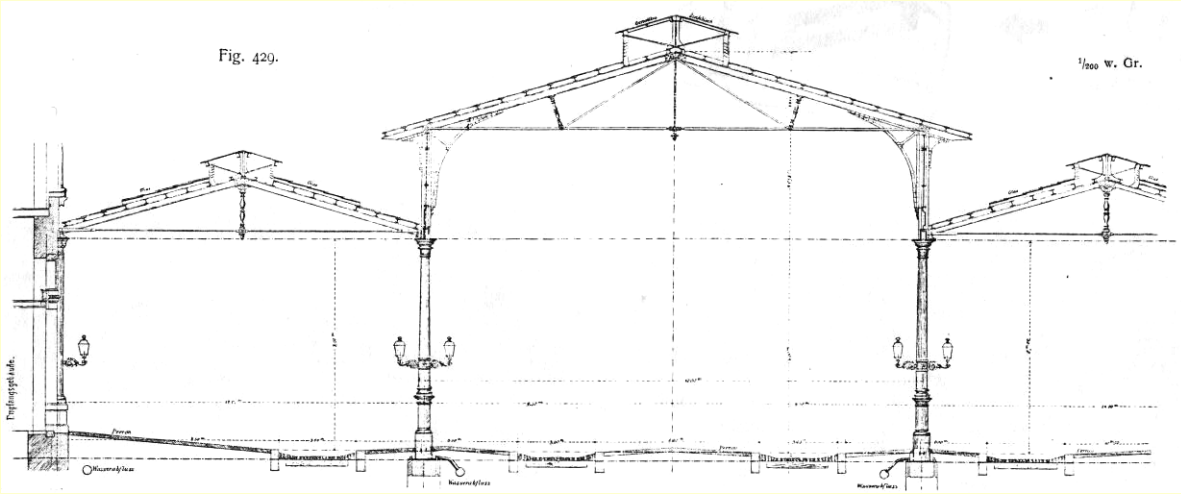
Csukló?

Sarokmerevség?

Berlin, Zoologischer Garten



Mannheim, Badische Stadtbahn

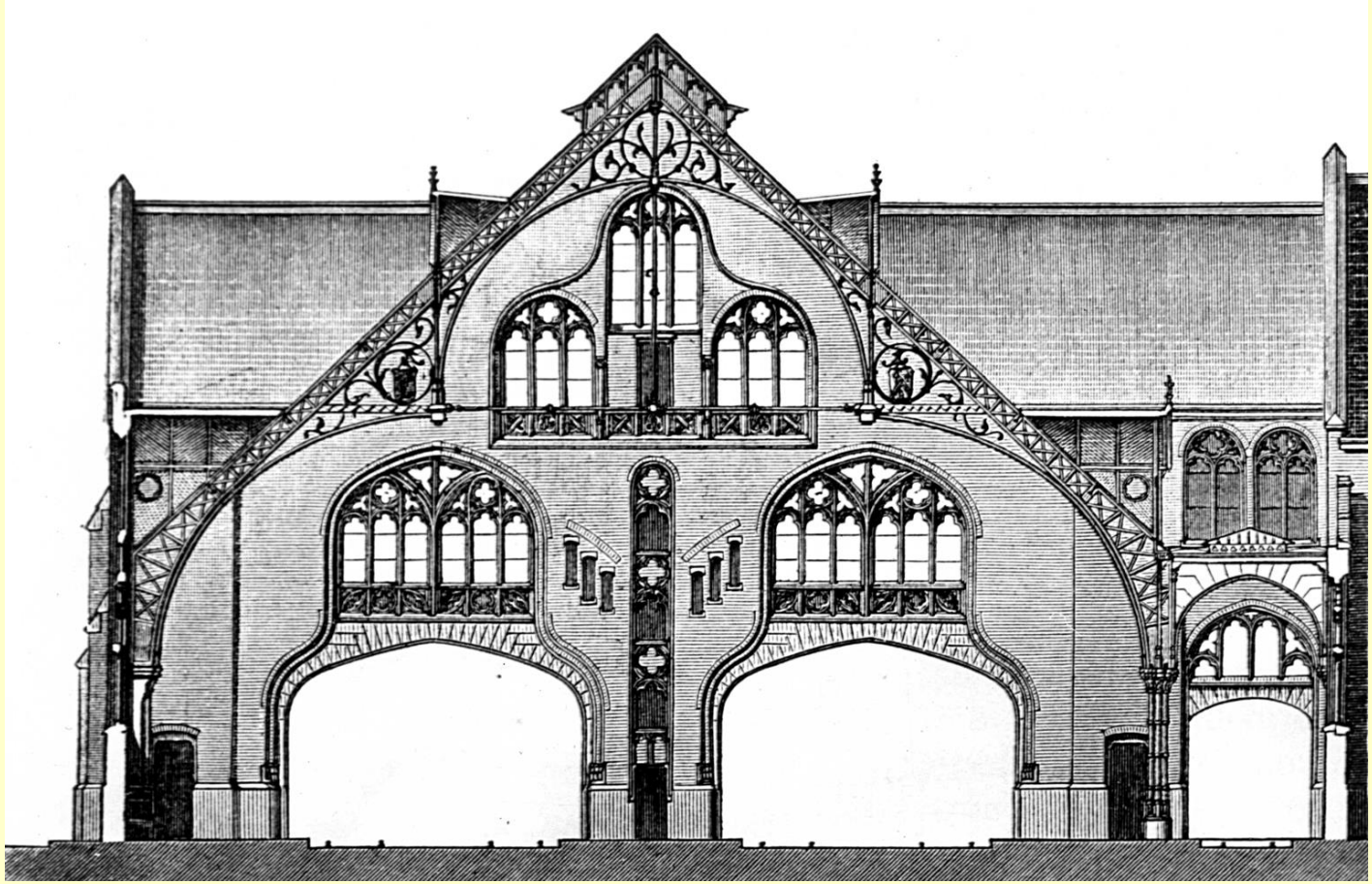


Pályaudvarok, állomások

Brugge, Pályaudvar

?

1860 k.

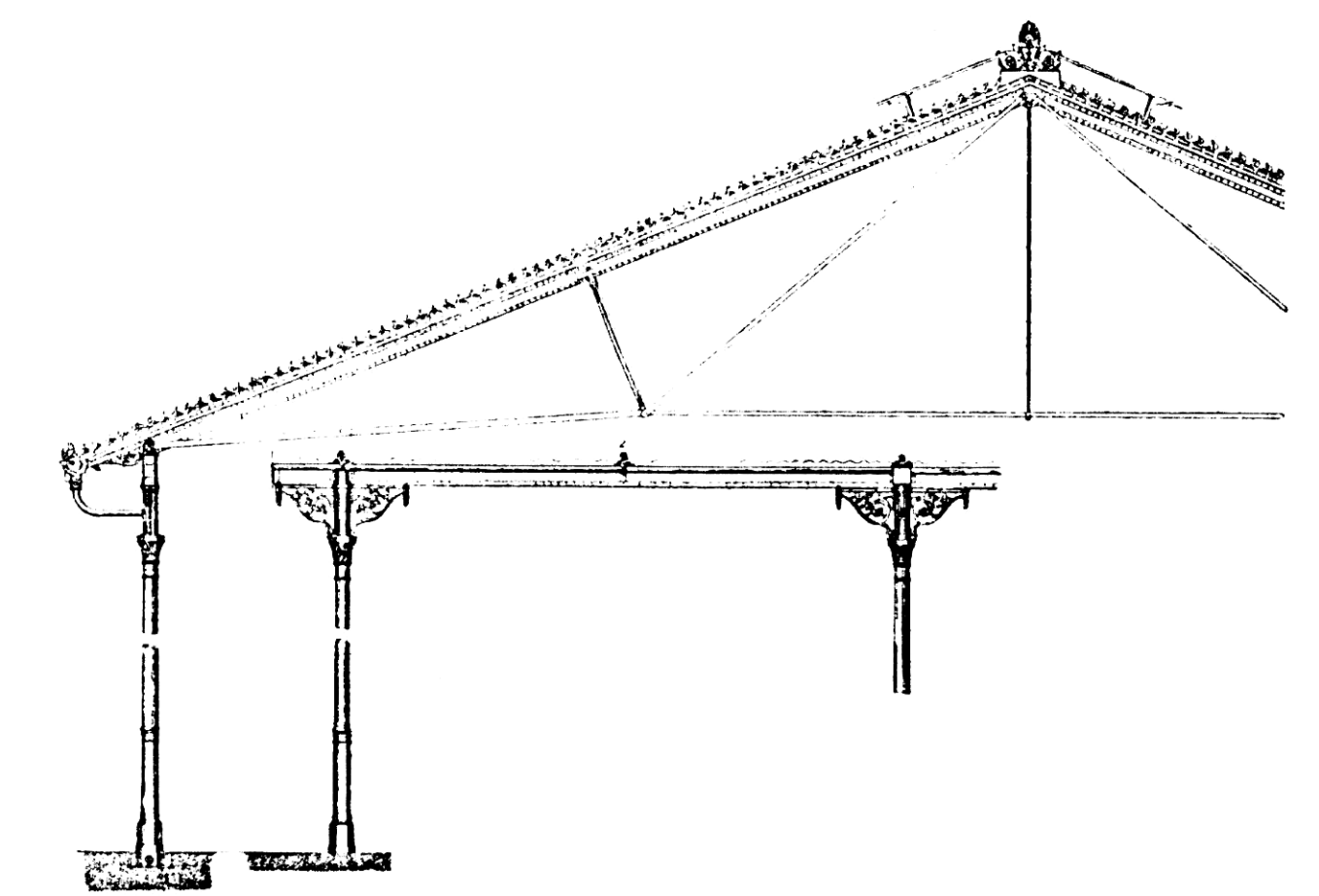


Pályaudvarok, állomások

Winterthur, Bahnhhof

J. Fr. Wanner

1860

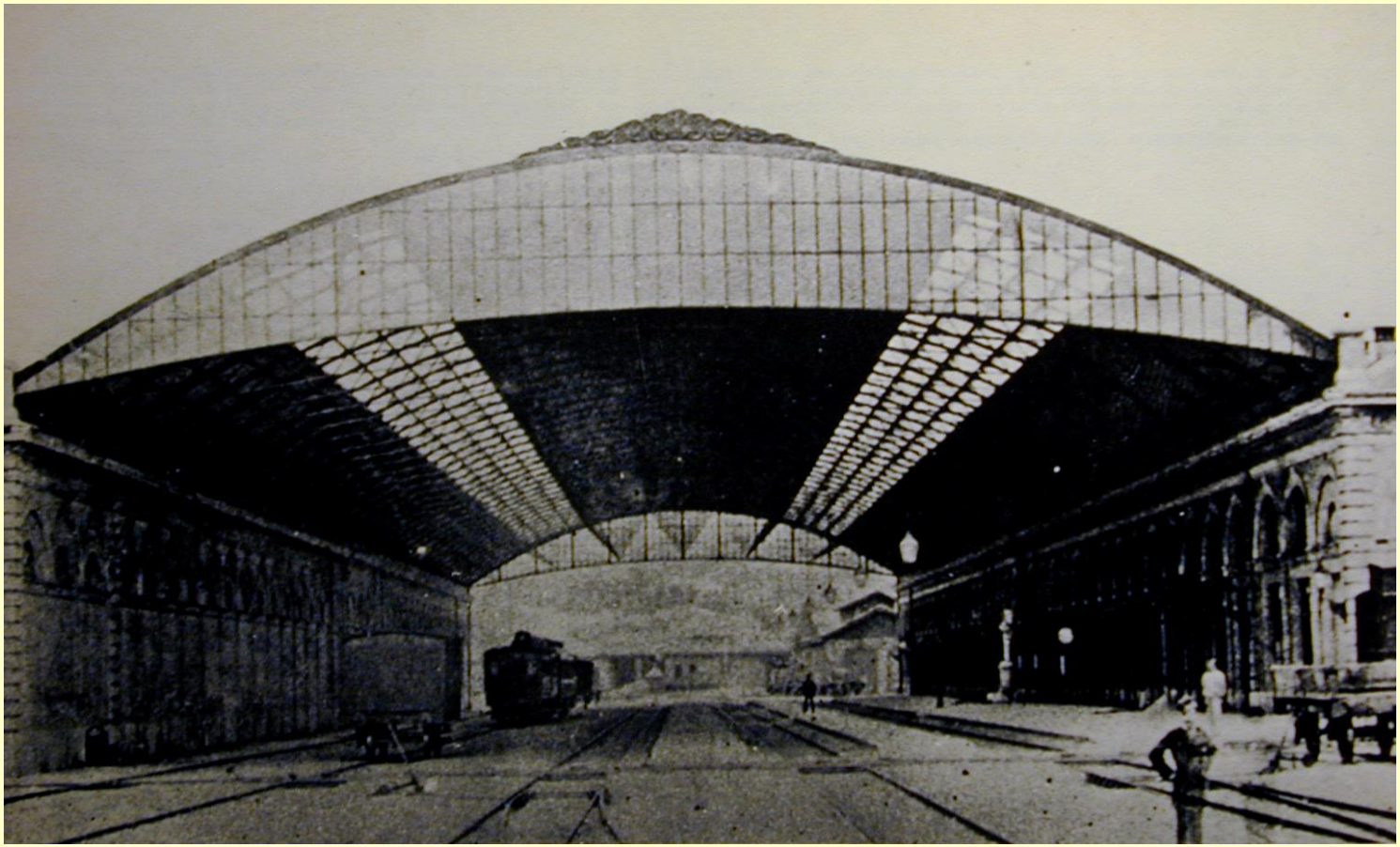


Pályaudvarok, állomások

Ancona, La Stazione

?

1861



Pályaudvarok, állomások

Berlin, Anhalter Bahnhof

Fr. Schwechten

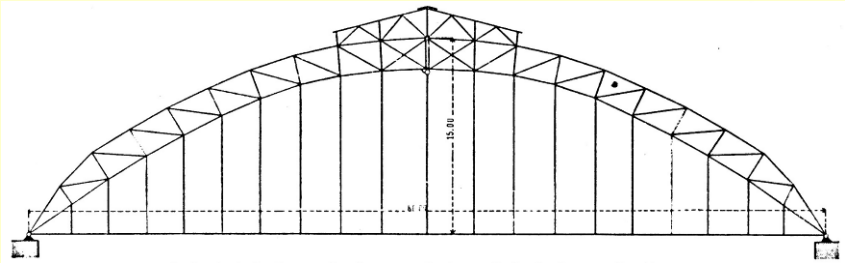
1861-1871

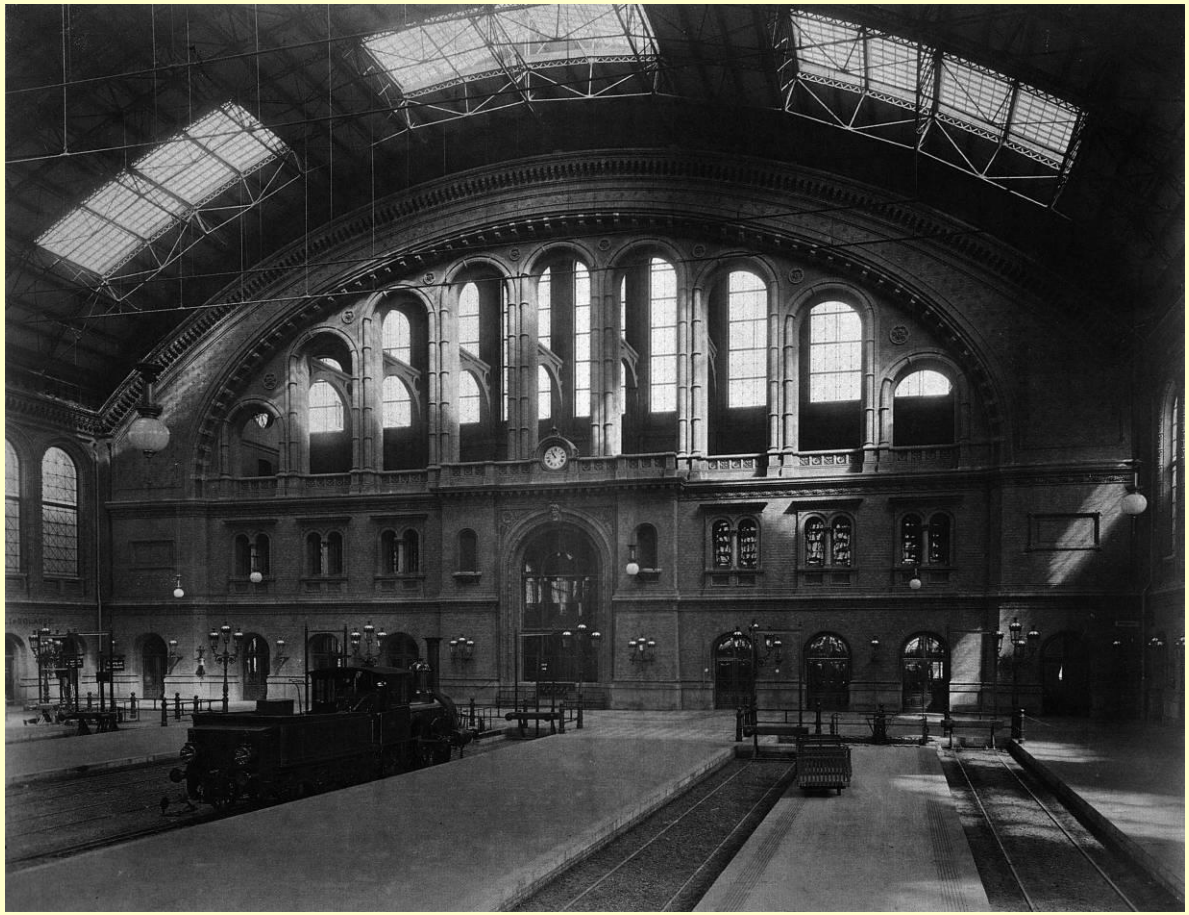
Pályaudvarok, állomások

Berlin, Anhalter Bahnhof

Fr. Schwechten

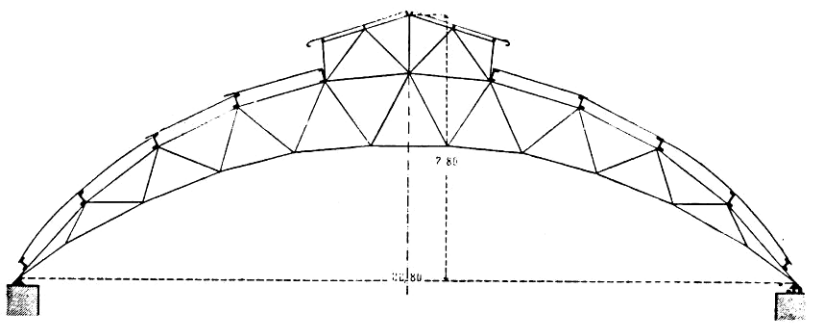
1861-1871





Pályaudvarok, állomások

Az íves szerkezet etalonja

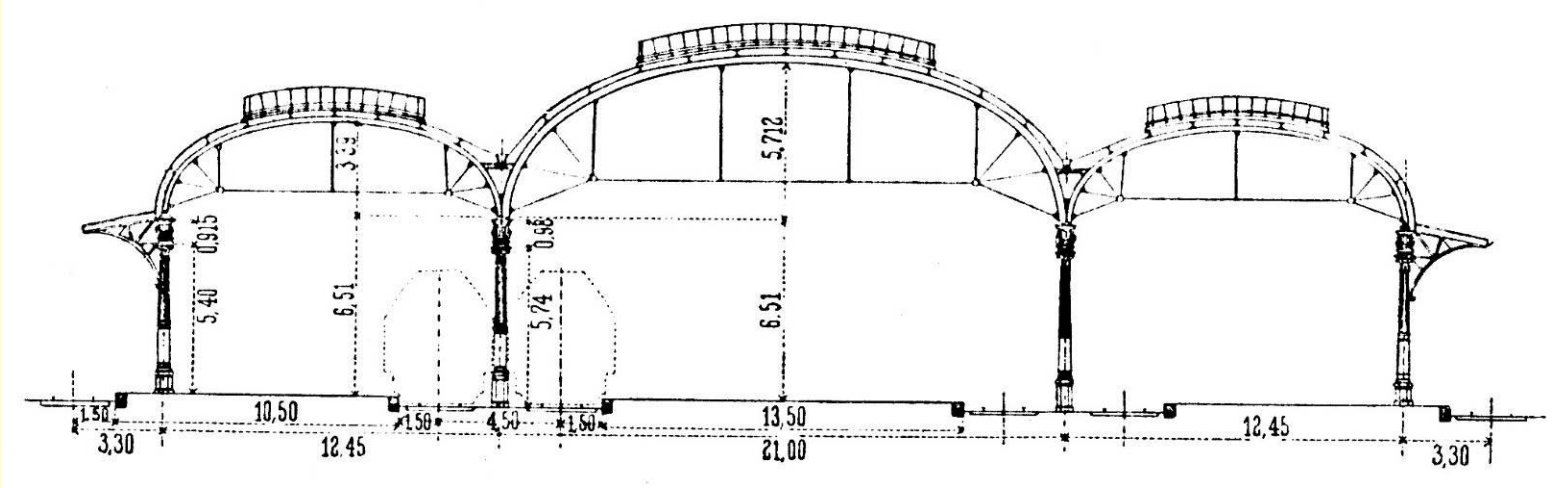


Eberfeld-Doeppersberg

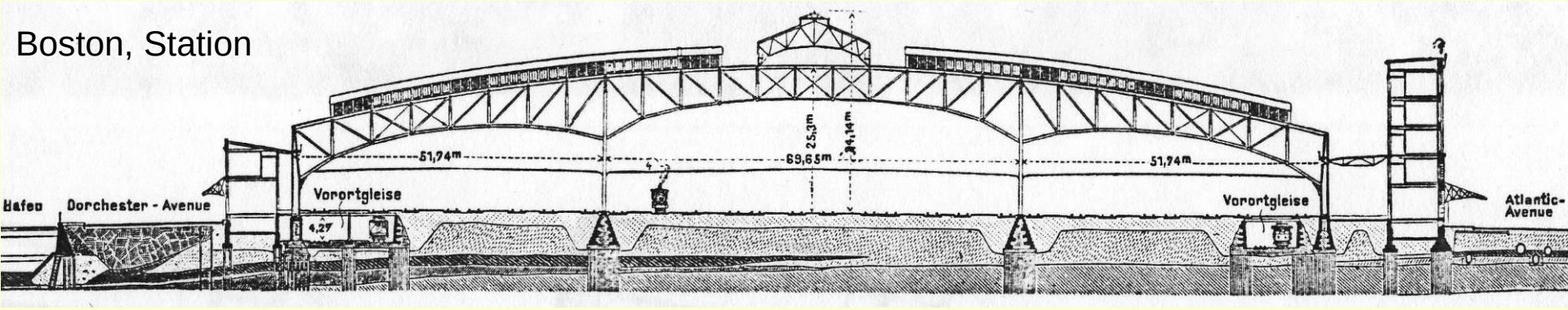
Hány hajó?

Merevítés?

Dilatáció?



Münster



Boston, Station

Pályaudvarok, állomások

Párizs, második Gare du Nord

J. I. Hittorff

1861-1865

Pályaudvarok, állomások

Párizs, második Gare du Nord

J. I. Hittorff

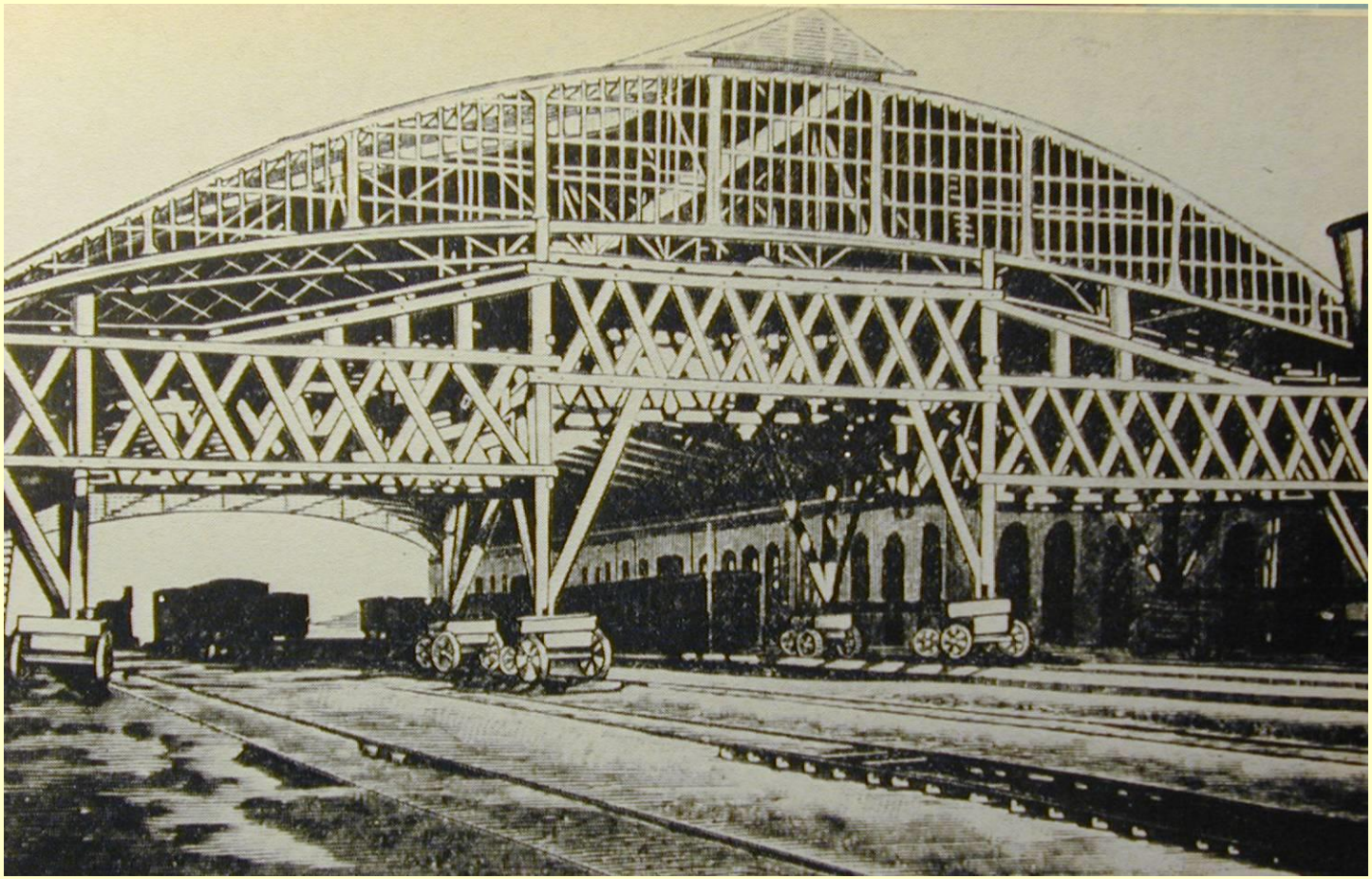
1861-1865

Pályaudvarok, állomások

Foggia, La Stazione

?

1864



Pályaudvarok, állomások

Torinó, Stazione di Porta Nouva

A Mazzuchetti

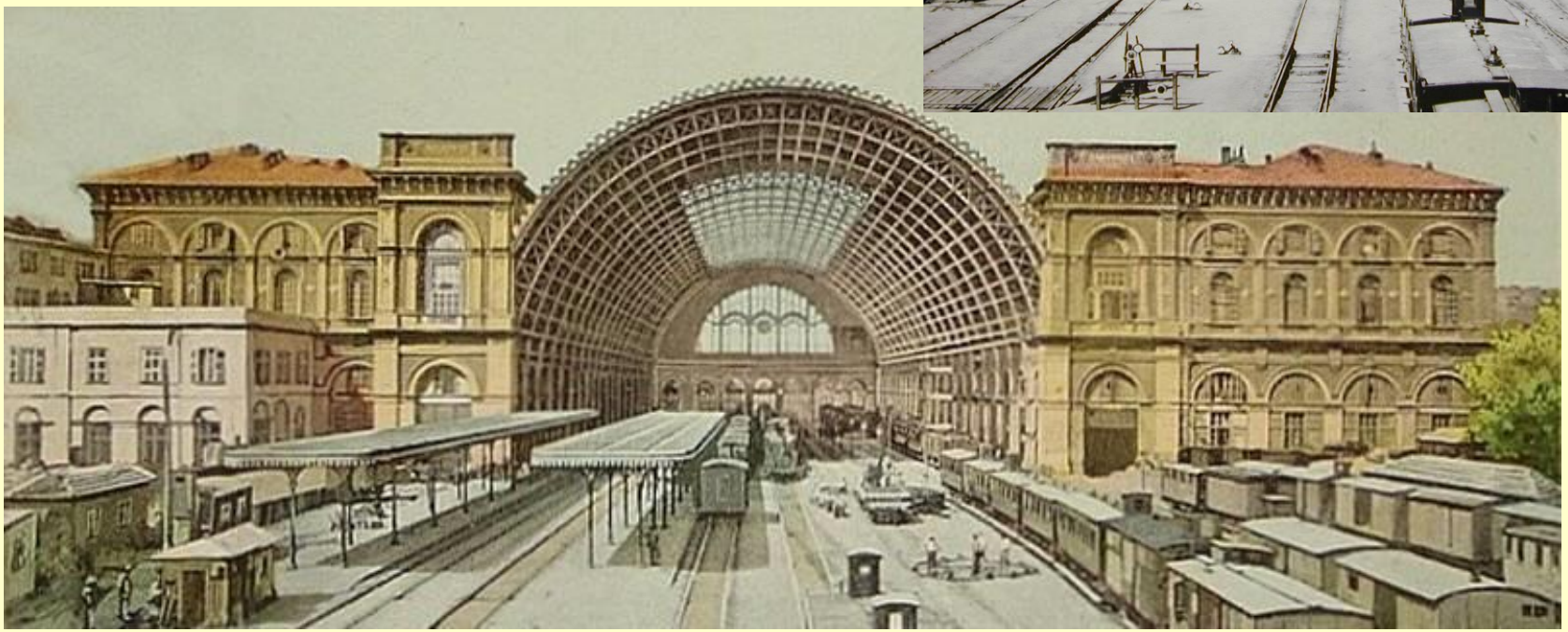
1865-1868

Pályaudvarok, állomások

Torinó, Stazione di Porta Nouva

A Mazzuchetti

1865-1868

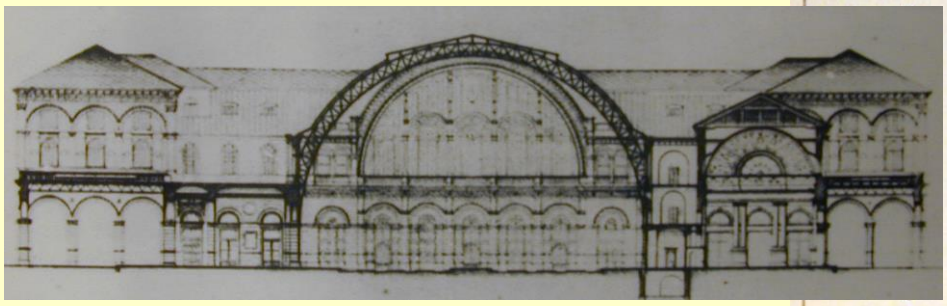


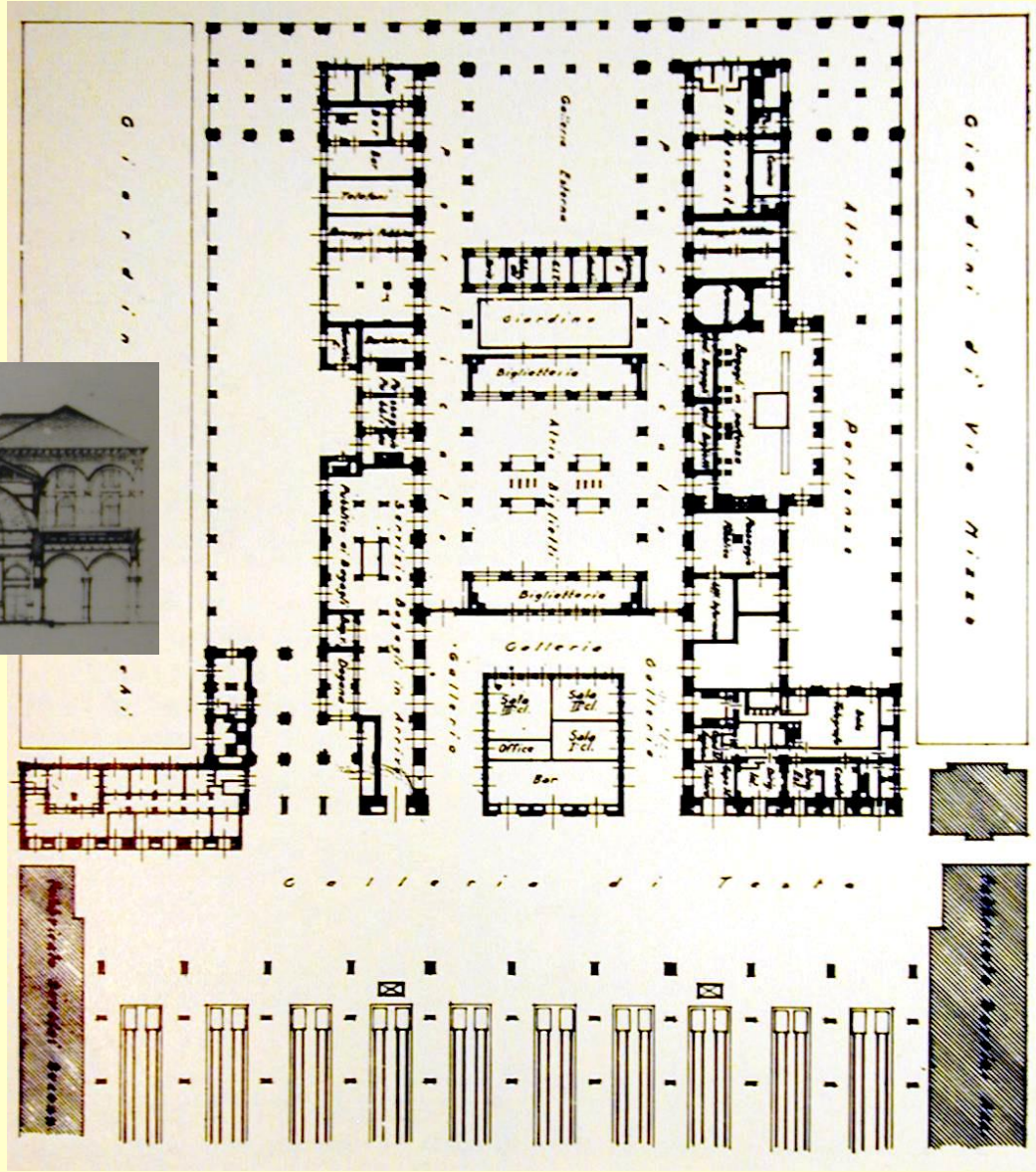
Pályaudvarok, állomások

Torinó, Stazione di Porta Nouva

A Mazzuchetti

1865-1868





Pályaudvarok, állomások

London, St. Pancras Station

Sir G. G. Scott

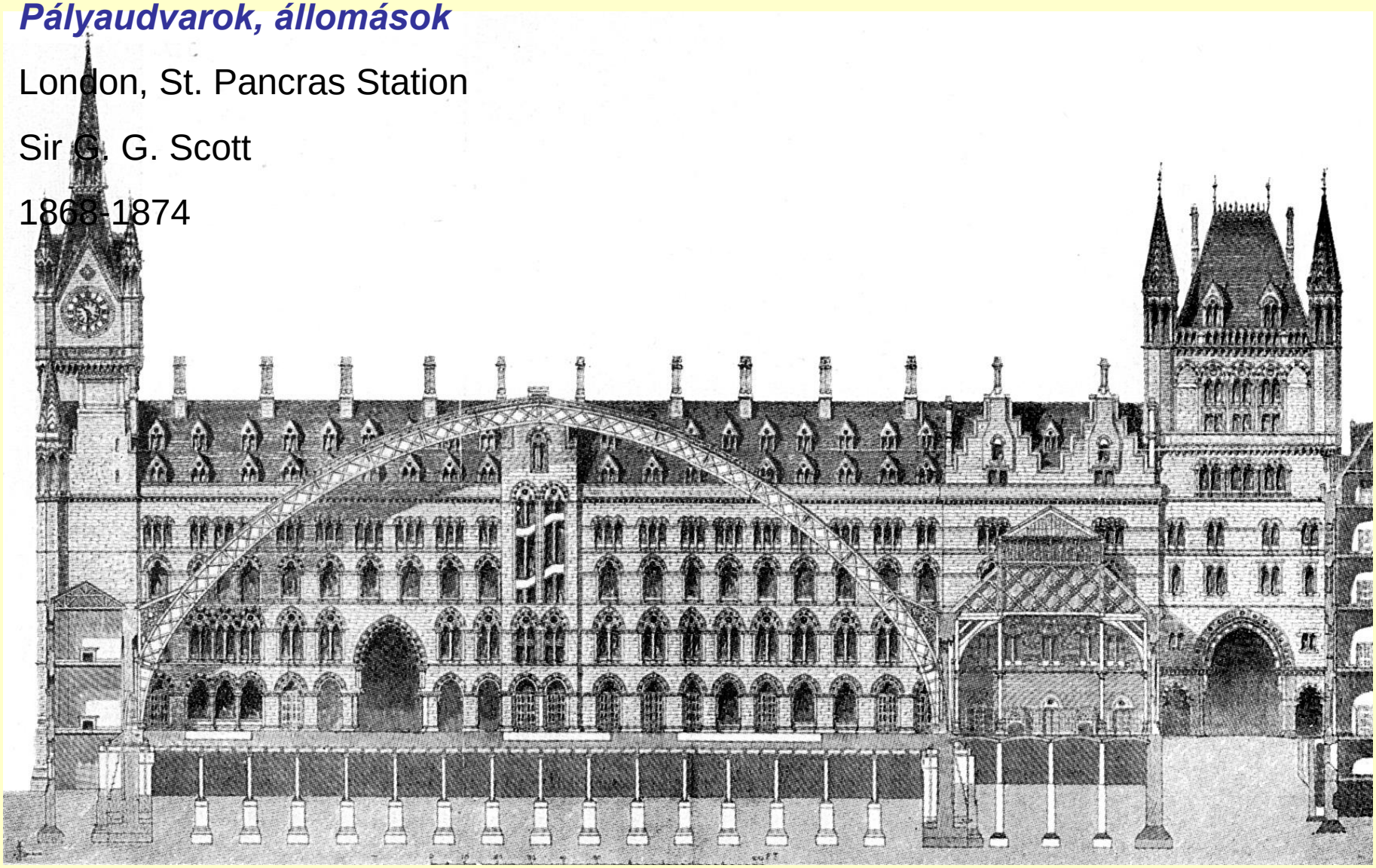
1868-1874

Pályaudvarok, állomások

London, St. Pancras Station

Sir G. G. Scott

1868-1874

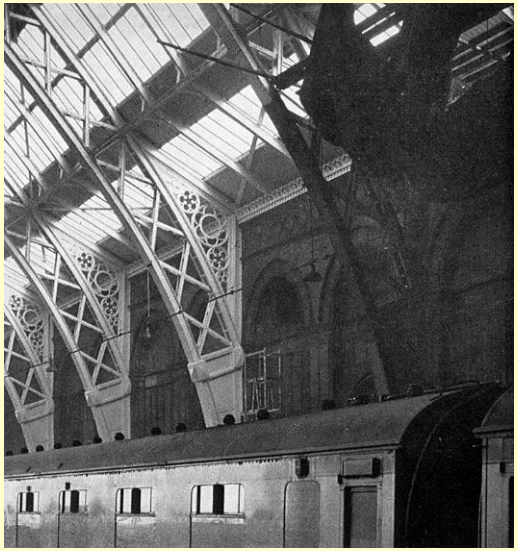


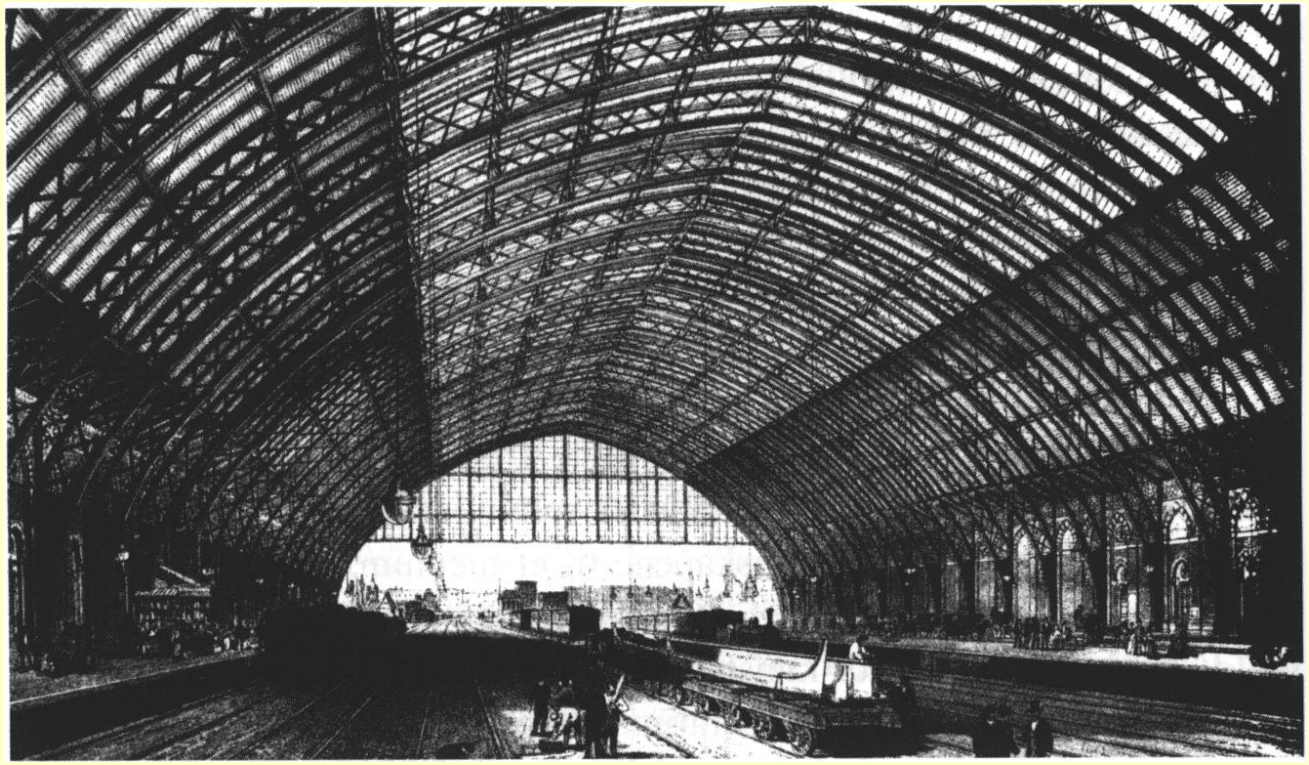
Pályaudvarok, állomások

London, St. Pancras Station

Sir G. G. Scott

1868-1874



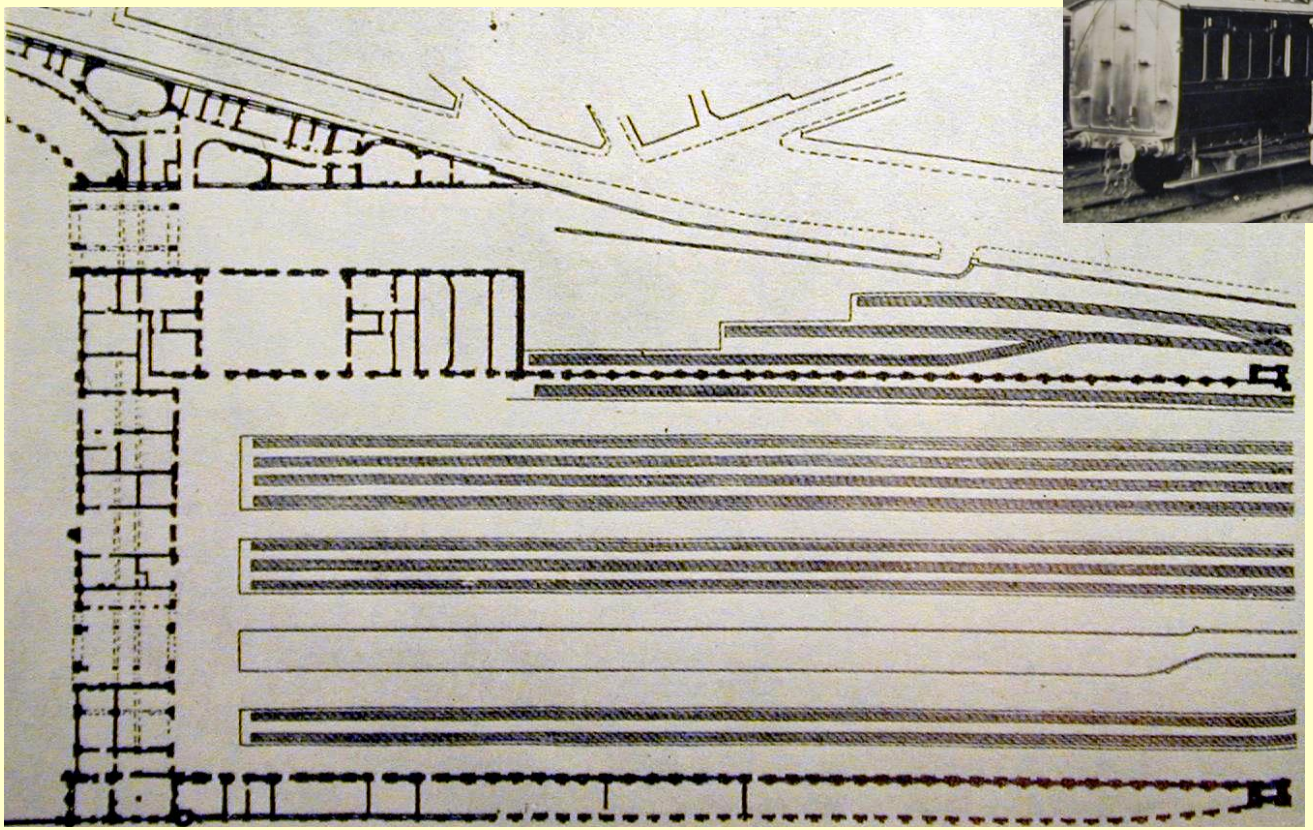


Pályaudvarok, állomások

London, St. Pancras Station

Sir G. G. Scott

1868-1874

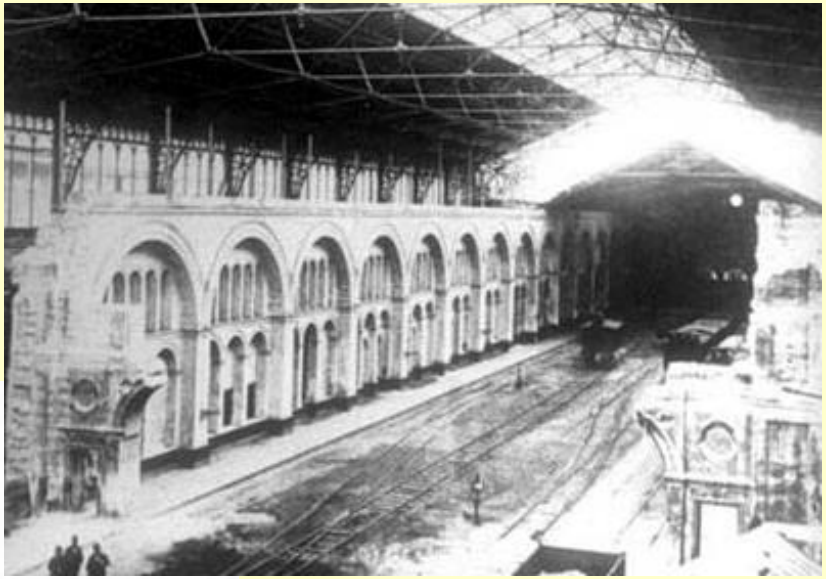


Pályaudvarok, állomások

Budapest, Nyugati pályaudvar

A. de Serres

1871-1877



Pályaudvarok, állomások

Budapest, Nyugati pályaudvar

A. de Serres

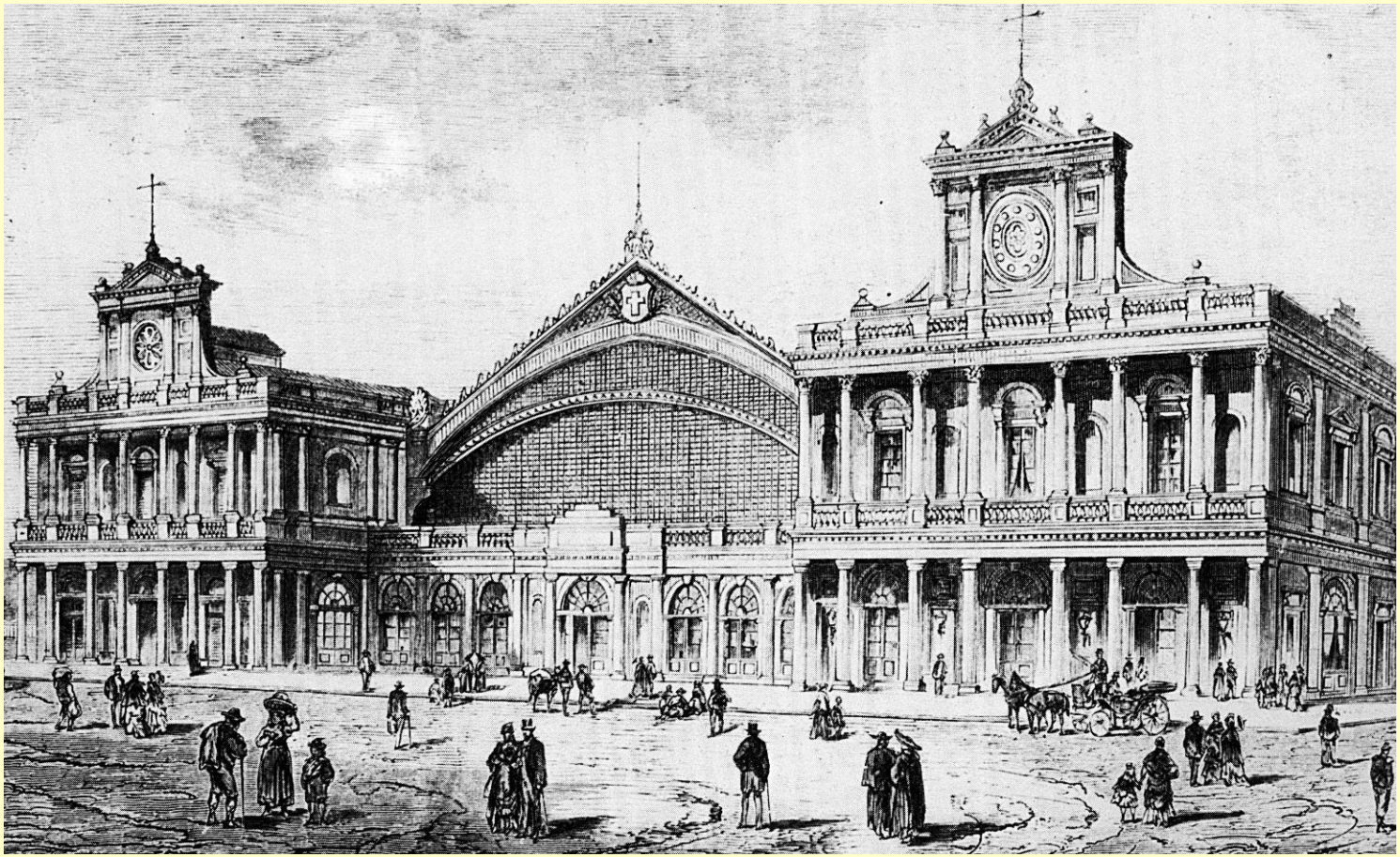
1871-1877

Pályaudvarok, állomások

Róma, első Termini pályaudvar

S. Bianchi

1874



Pályaudvarok, állomások

Róma, első Termini pályaudvar

S. Bianchi

1874

Pályaudvarok, állomások

Róma, első Termini pályaudvar

S. Bianchi

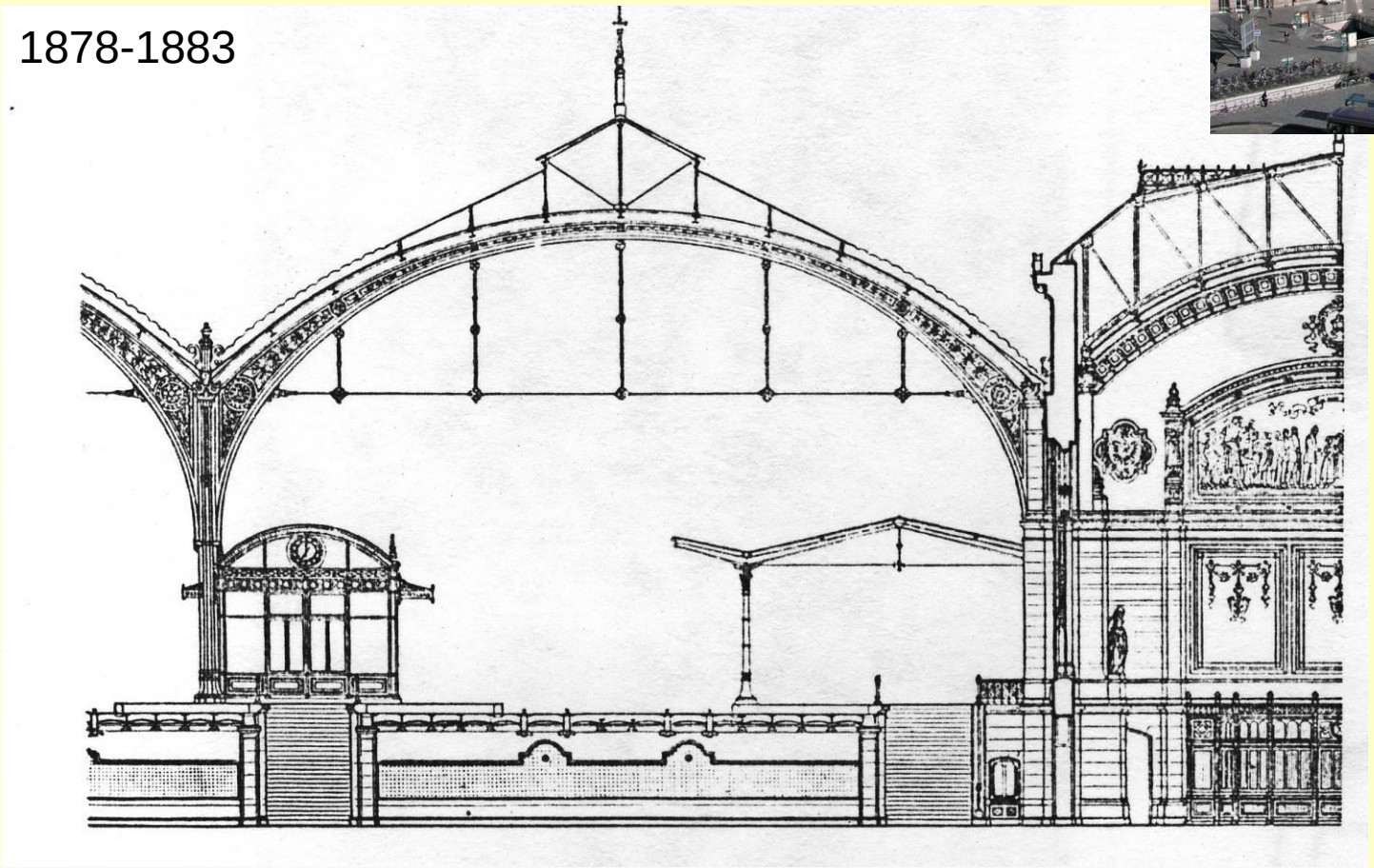
1874

Pályaudvarok, állomások

Strassbourg, Gare de Strassbourg

J. E. Jacobstahl

1878-1883

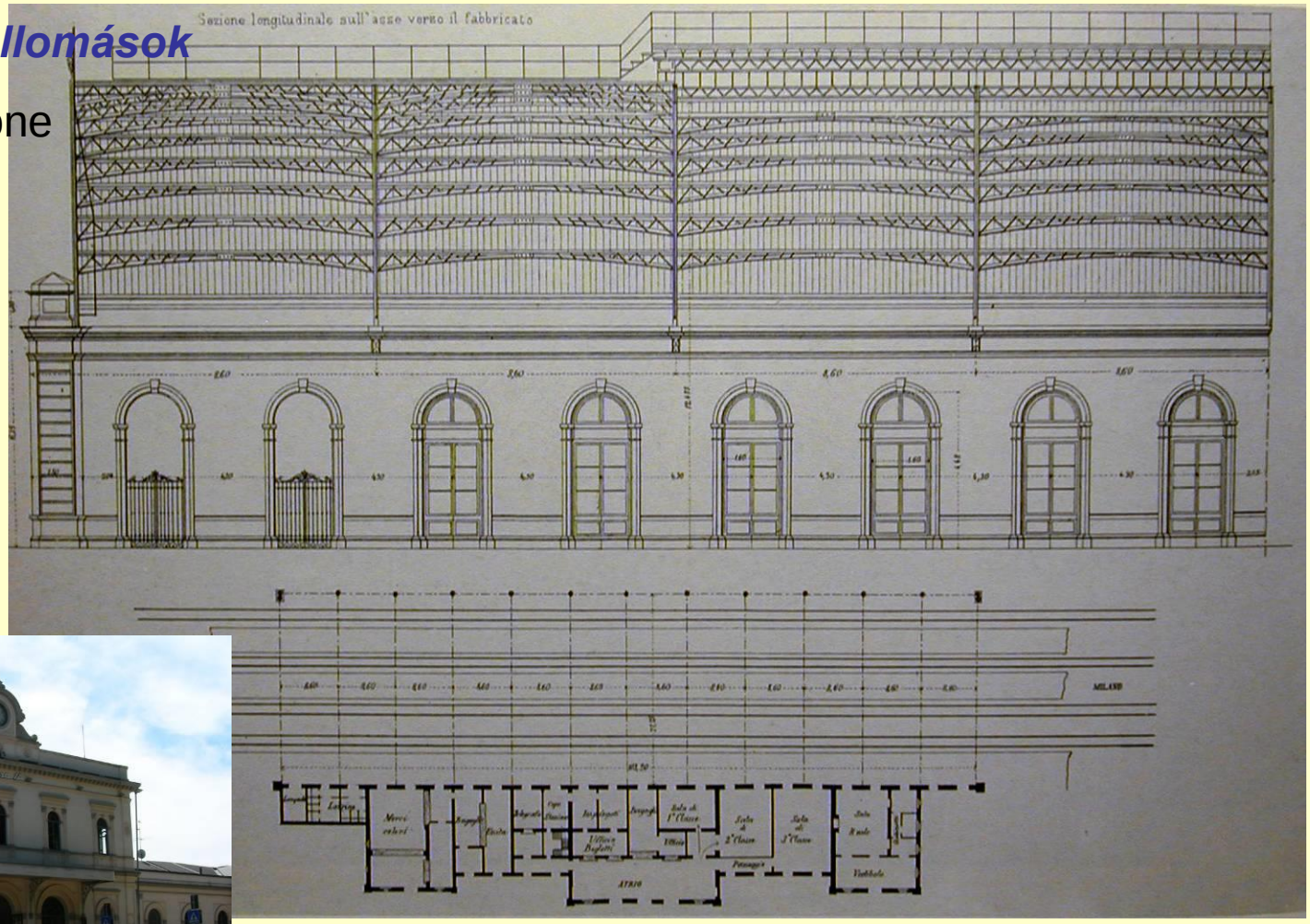


Pályaudvarok, állomások

Monza, La Stazione

?

1879

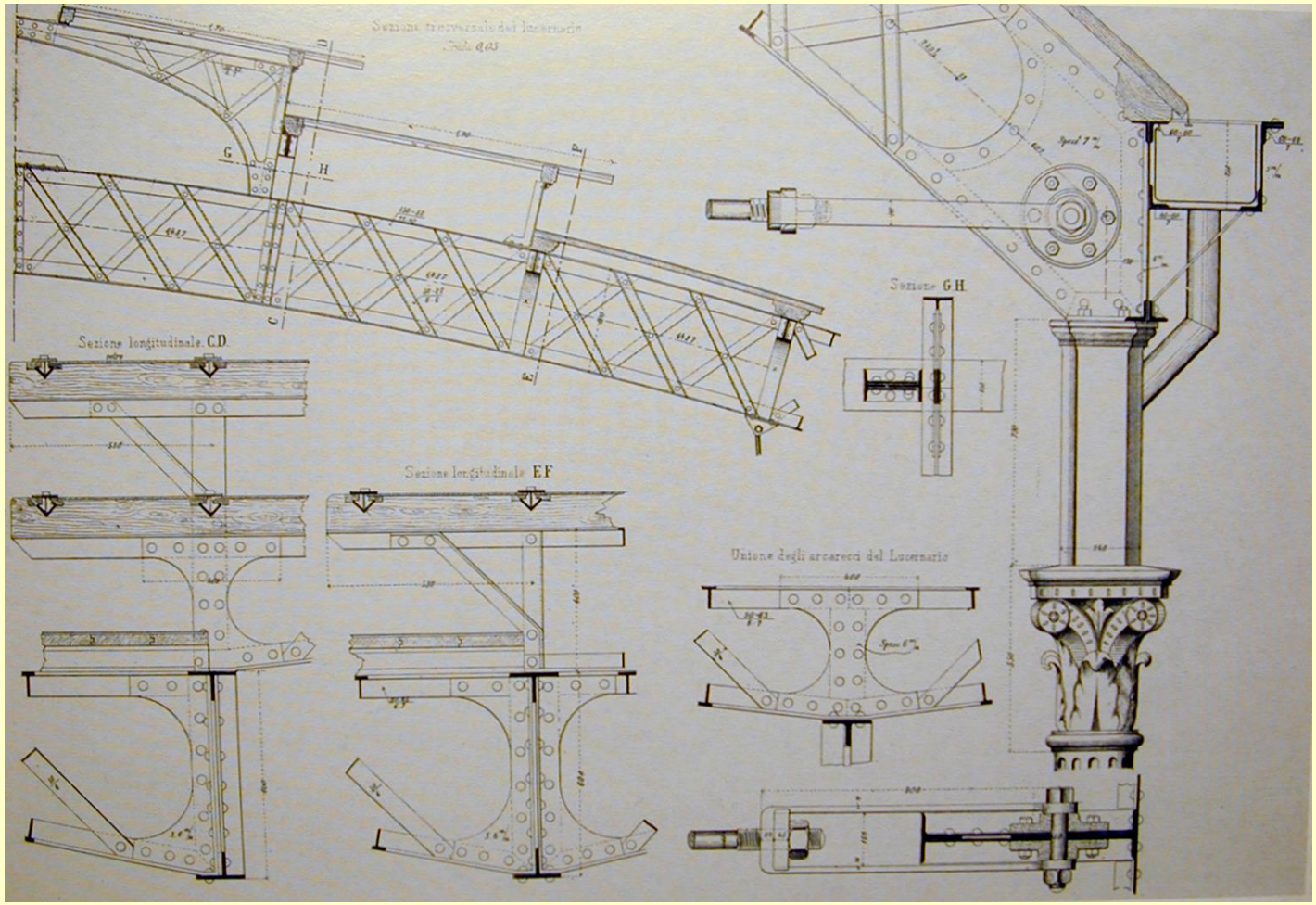


Pályaudvarok, állomások

Monza, La Stazione

?

1879

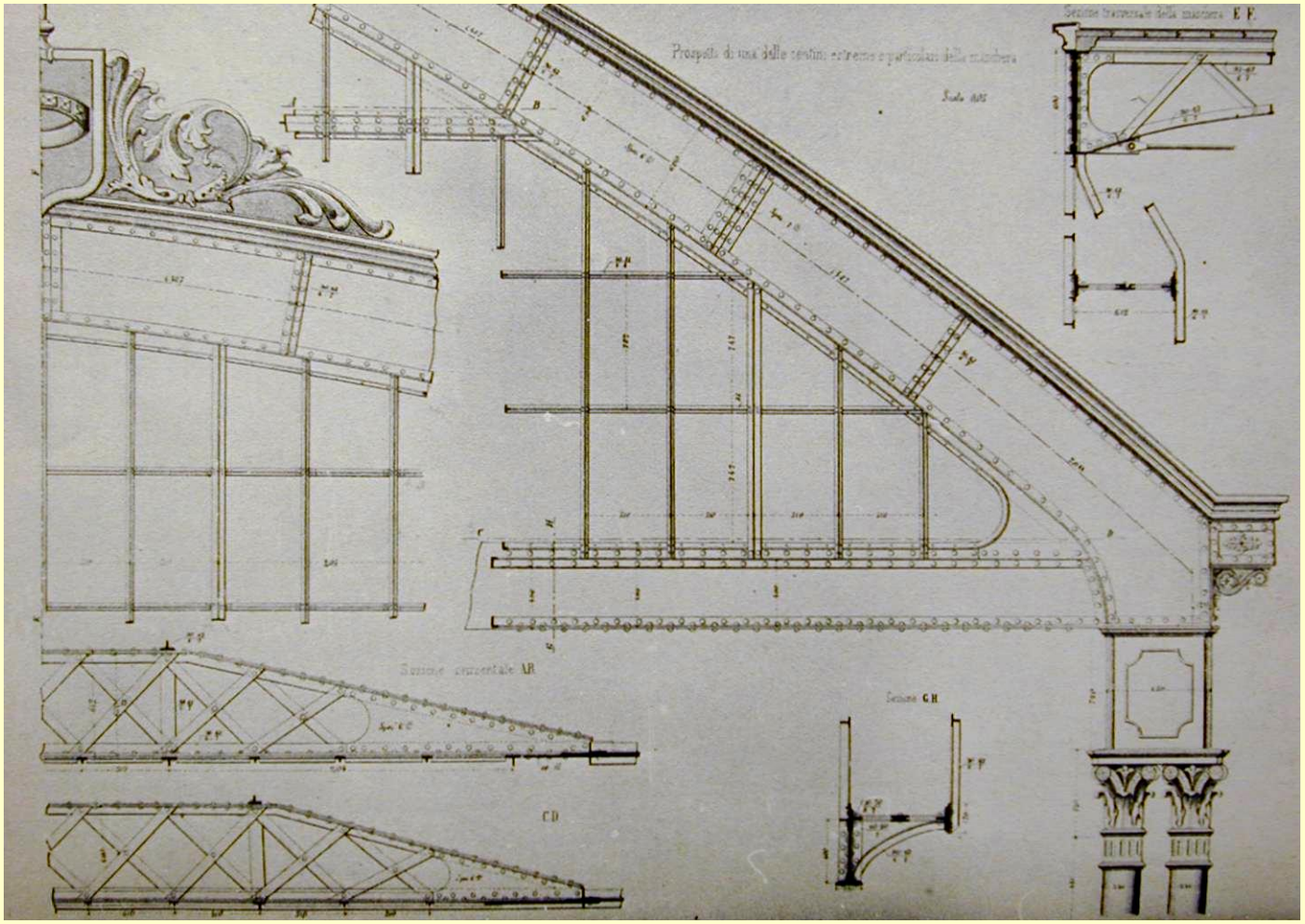


Pályaudvarok, állomások

Monza, La Stazione

?

1879

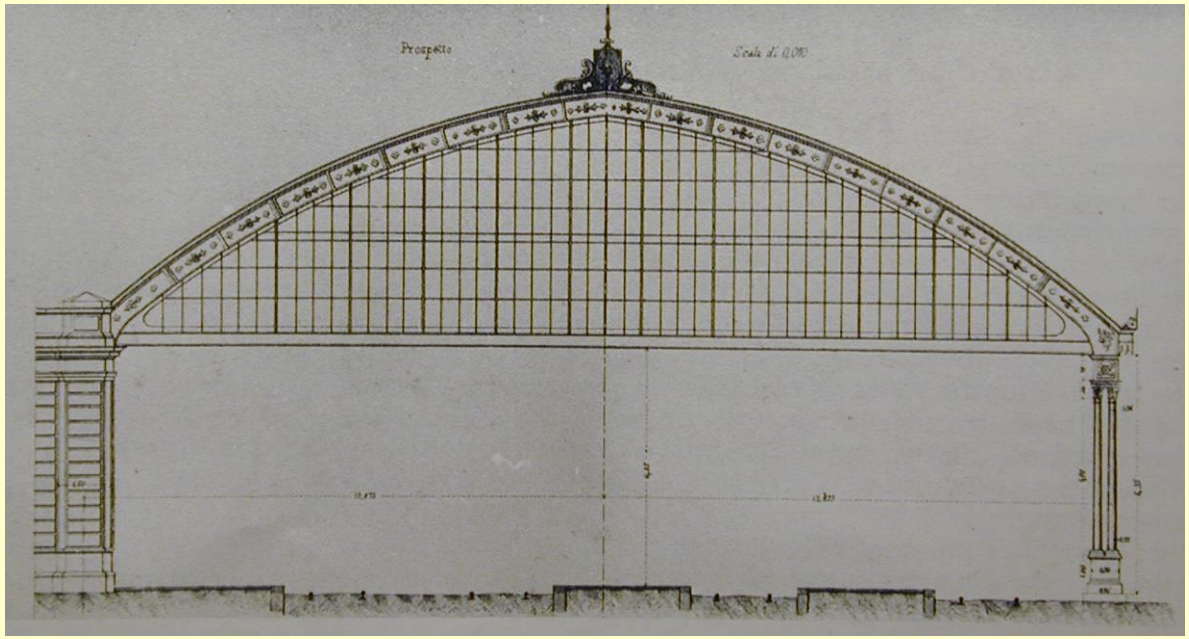


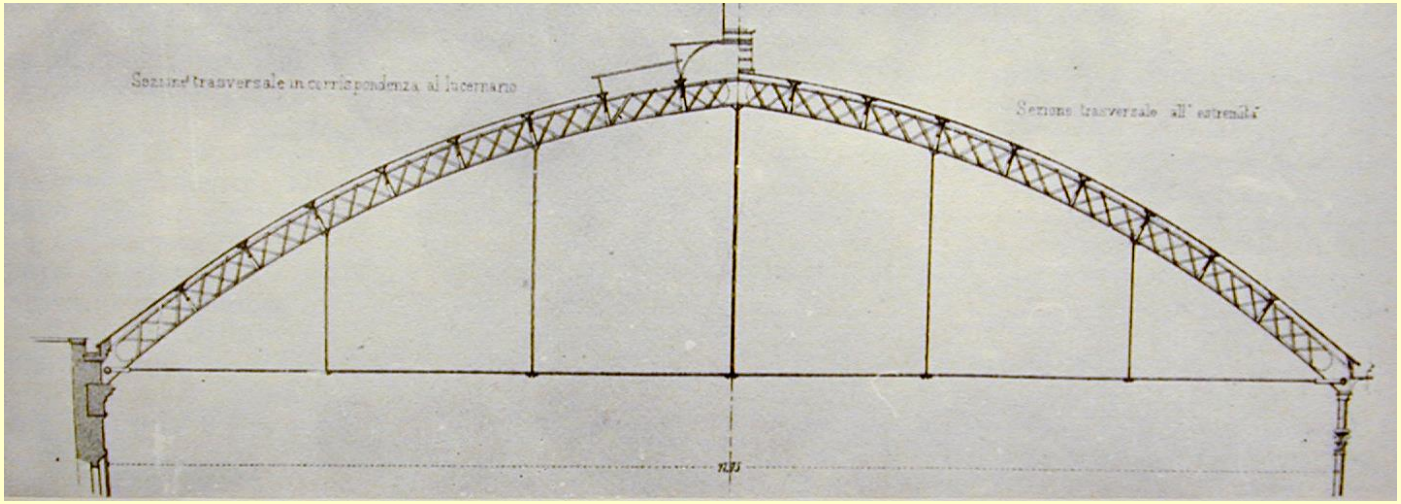
Pályaudvarok, állomások

Monza, La Stazione

?

1879





Pályaudvarok, állomások

Brescia, La Stazione

?

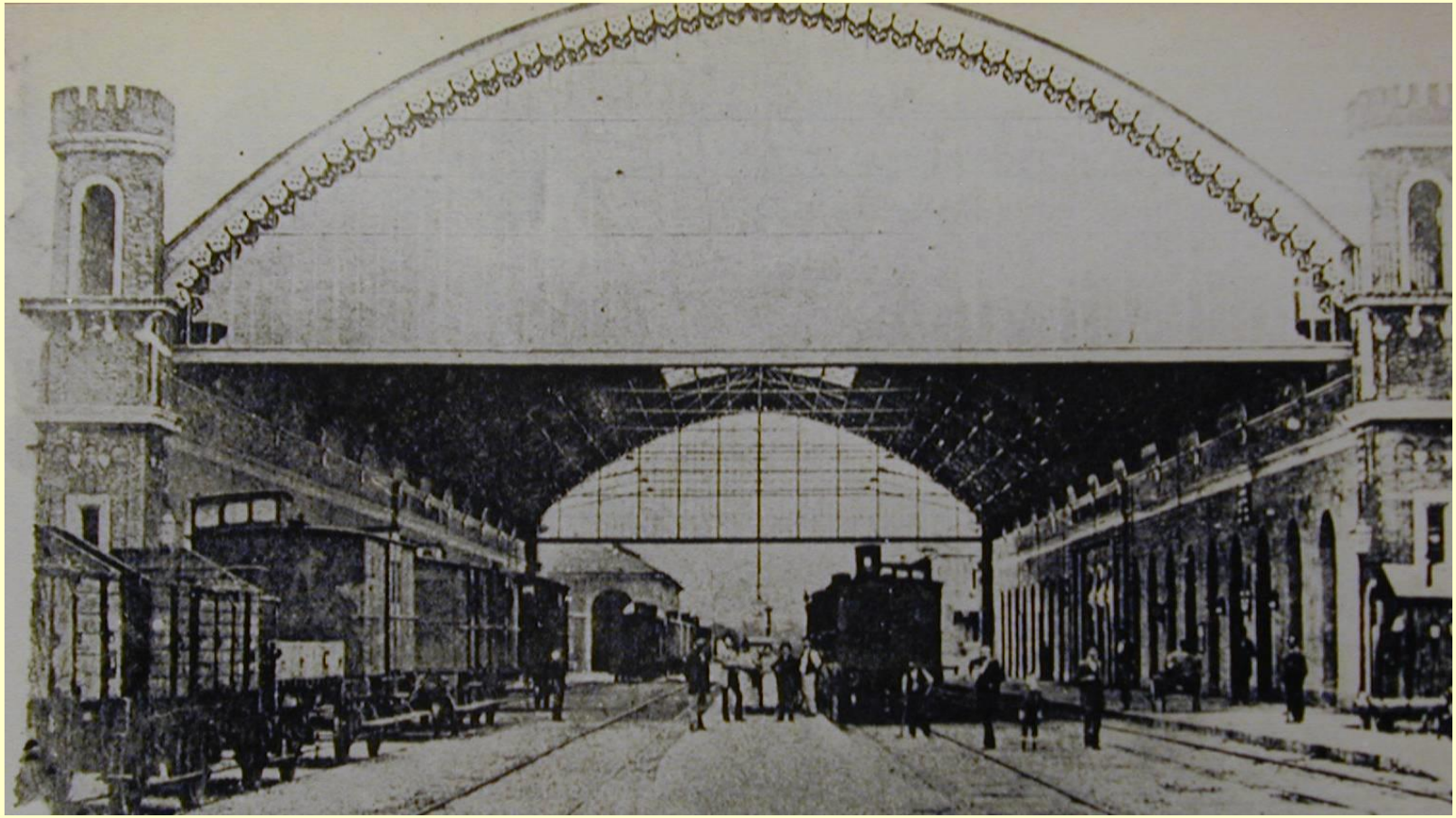
1879

Pályaudvarok, állomások

Brescia, La Stazione

?

1879



Pályaudvarok, állomások

Brescia, La Stazione

?

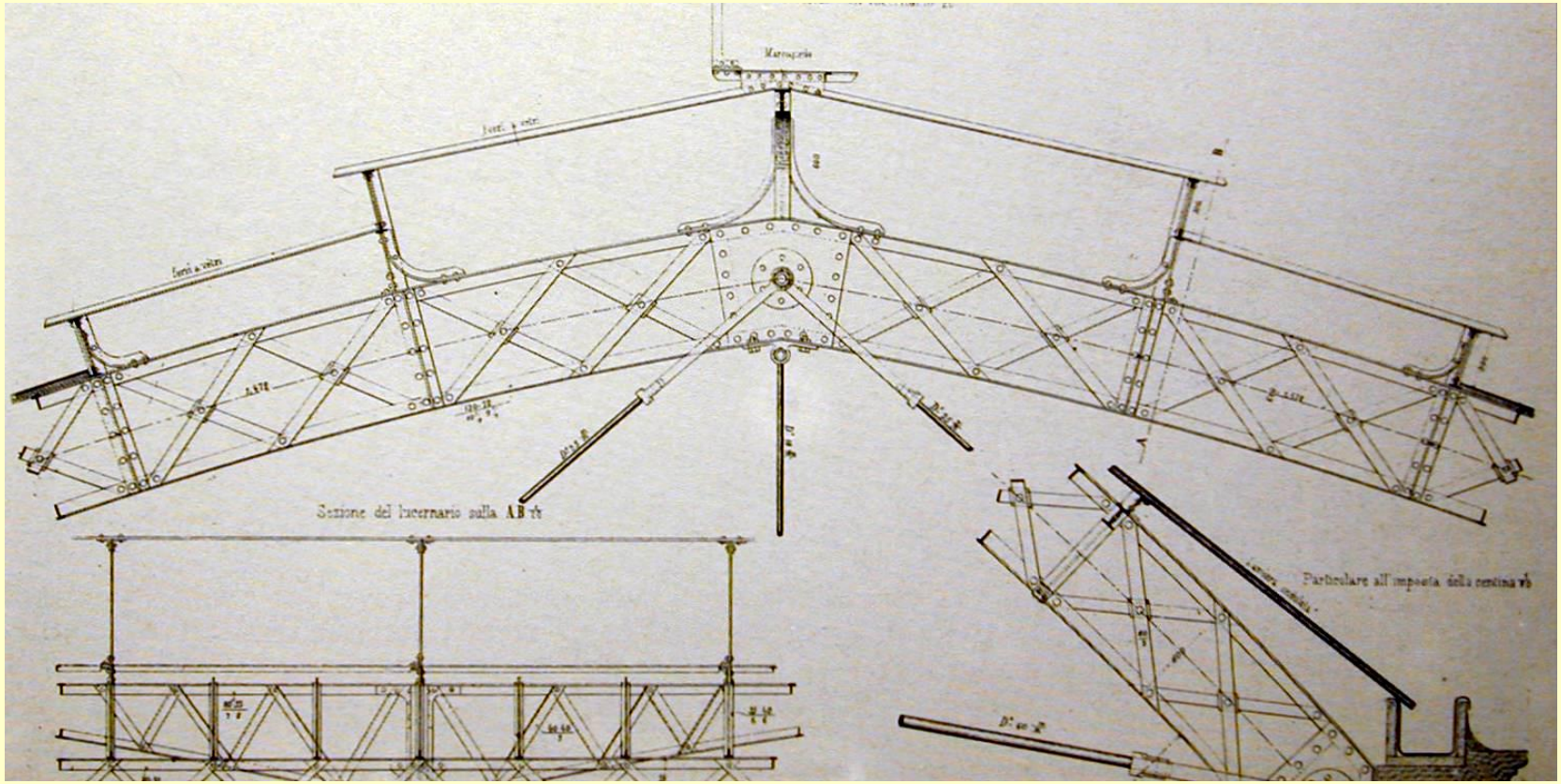
1879

Pályaudvarok, állomások

Brescia, La Stazione

?

1879



Pályaudvarok, állomások

Philadelphia, Broad Street Station

G. Bradshaw

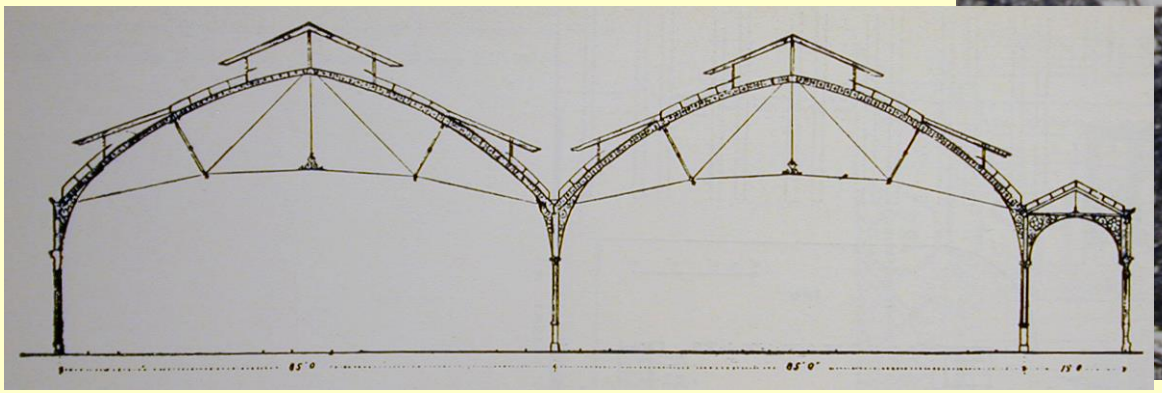
1880-1882

Pályaudvarok, állomások

Philadelphia, Broad Street Station

G. Bradshaw

1880-1882

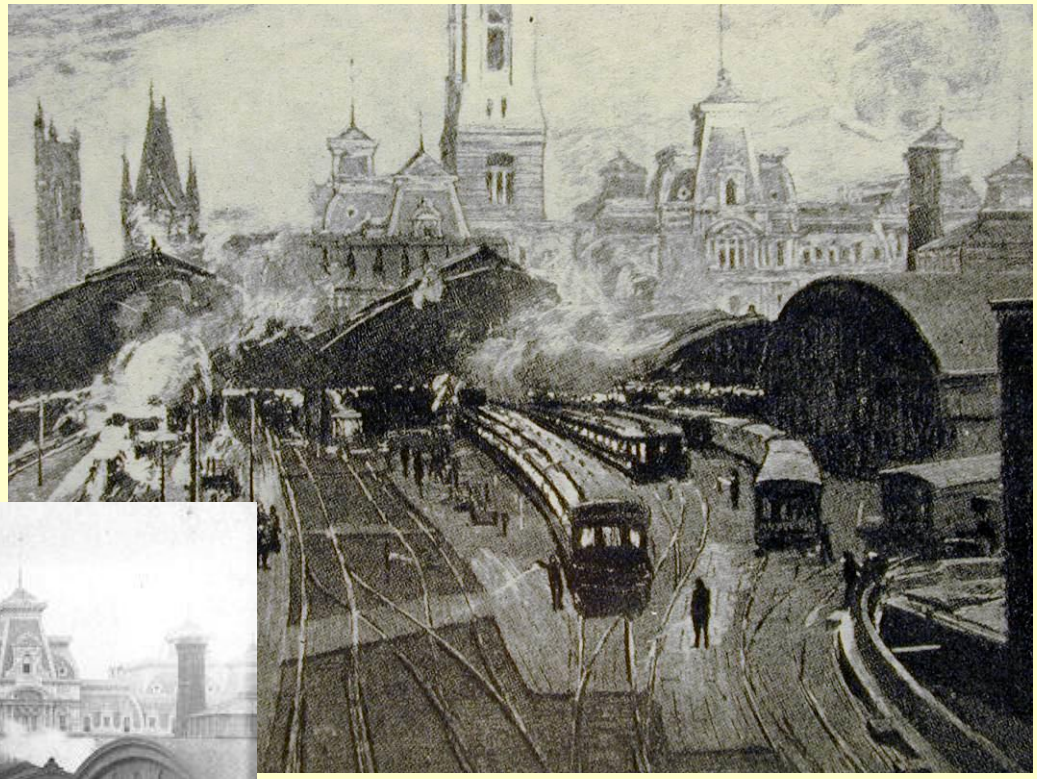


Pályaudvarok, állomások

Philadelphia, Broad Street Station

G. Bradshaw

1880-1882



Pályaudvarok, állomások

Berlin, Schlesischen Bahnhof

?

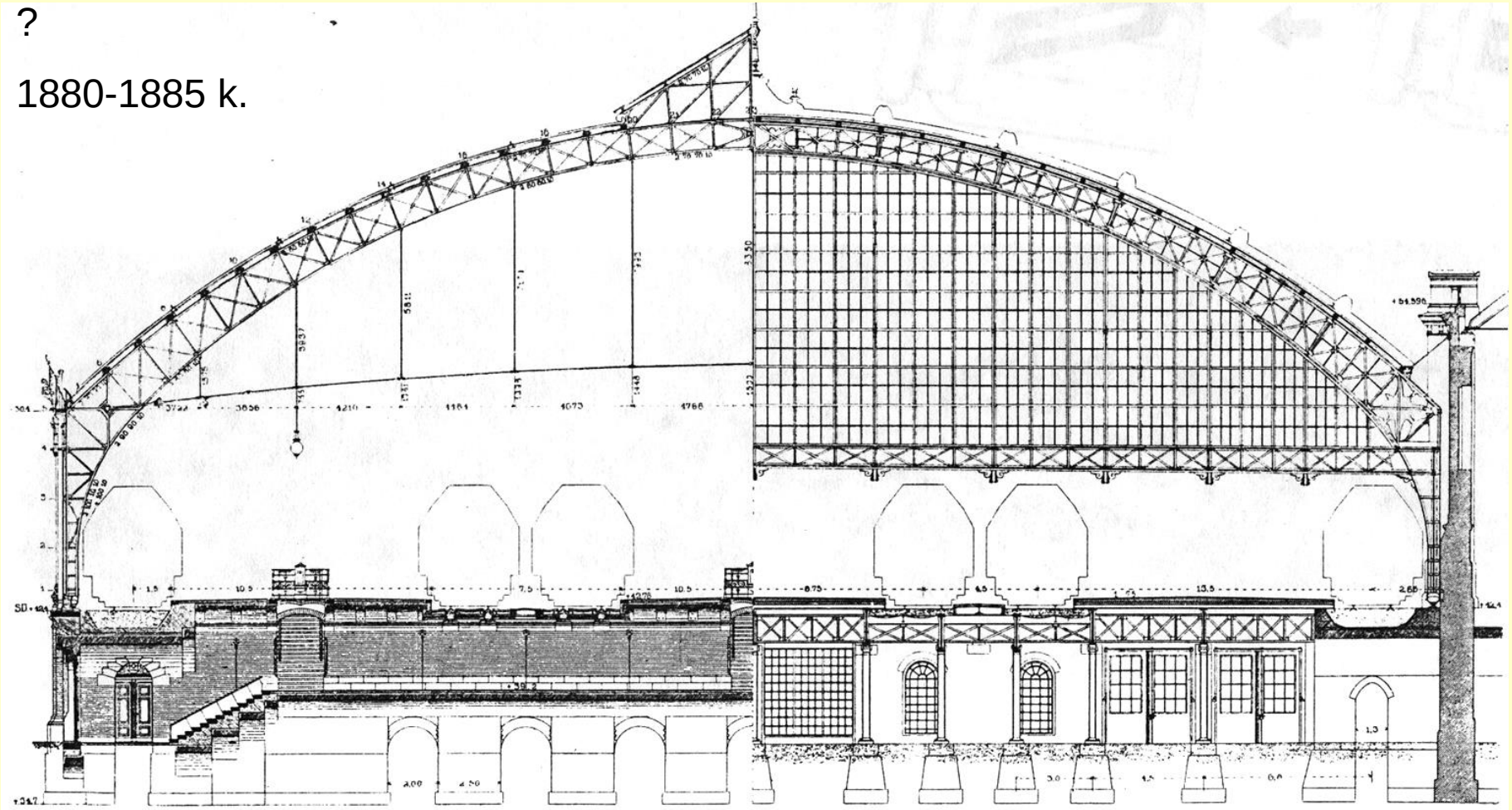
1880-1885 k.

Pályaudvarok, állomások

Berlin, Schlesischen Bahnhof

?

1880-1885 k.



Pályaudvarok, állomások

Berlin, Schlesischen Bahnhof

?

1880-1885 k.

Pályaudvarok, állomások

Berlin, Bahnhof Alexanderplatz

J. E. Jacobstahl

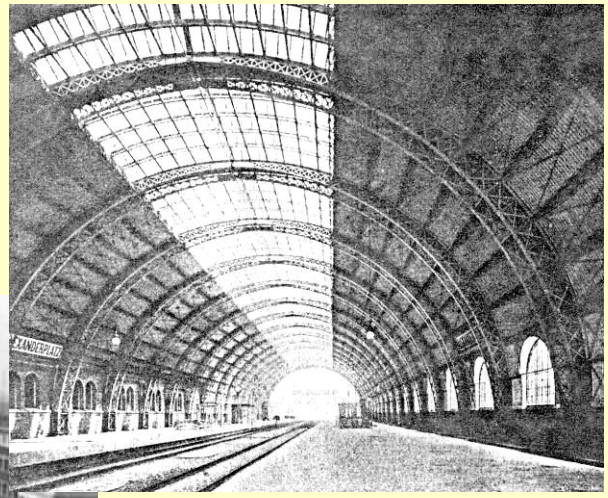
1881-1882

Pályaudvarok, állomások

Berlin, Bahnhof Alexanderplatz

J. E. Jacobstahl

1881-1882

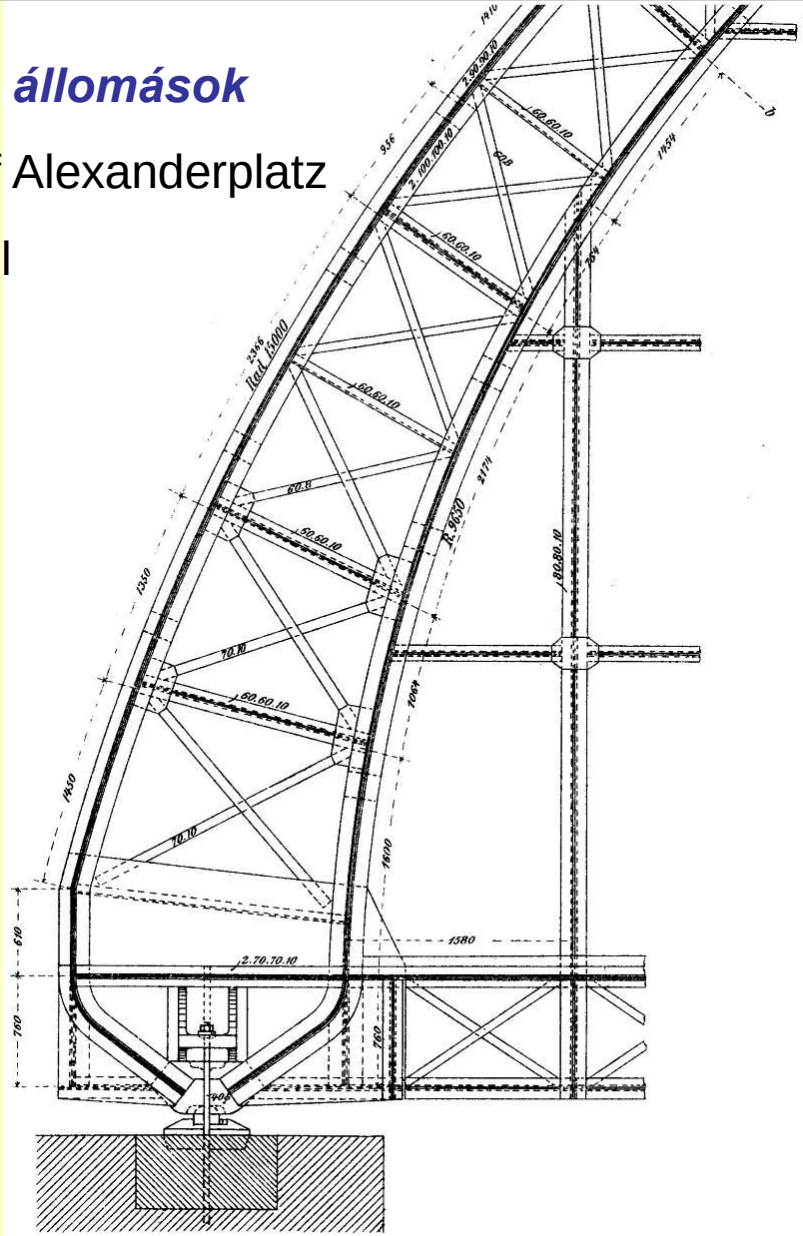


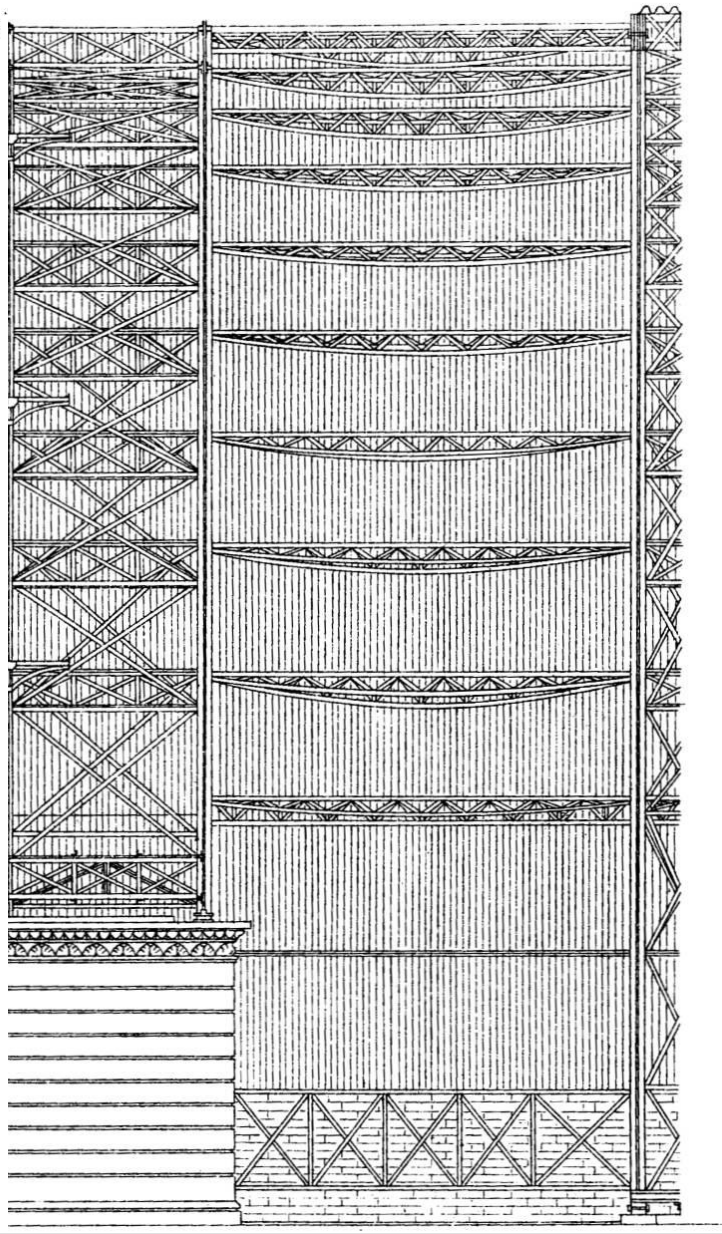
Pályaudvarok, állomások

Berlin, Bahnhof Alexanderplatz

J. E. Jacobstahl

1881-1882





Pályaudvarok, állomások

Budapest, Keleti pályaudvar

Rochlitz Gyula

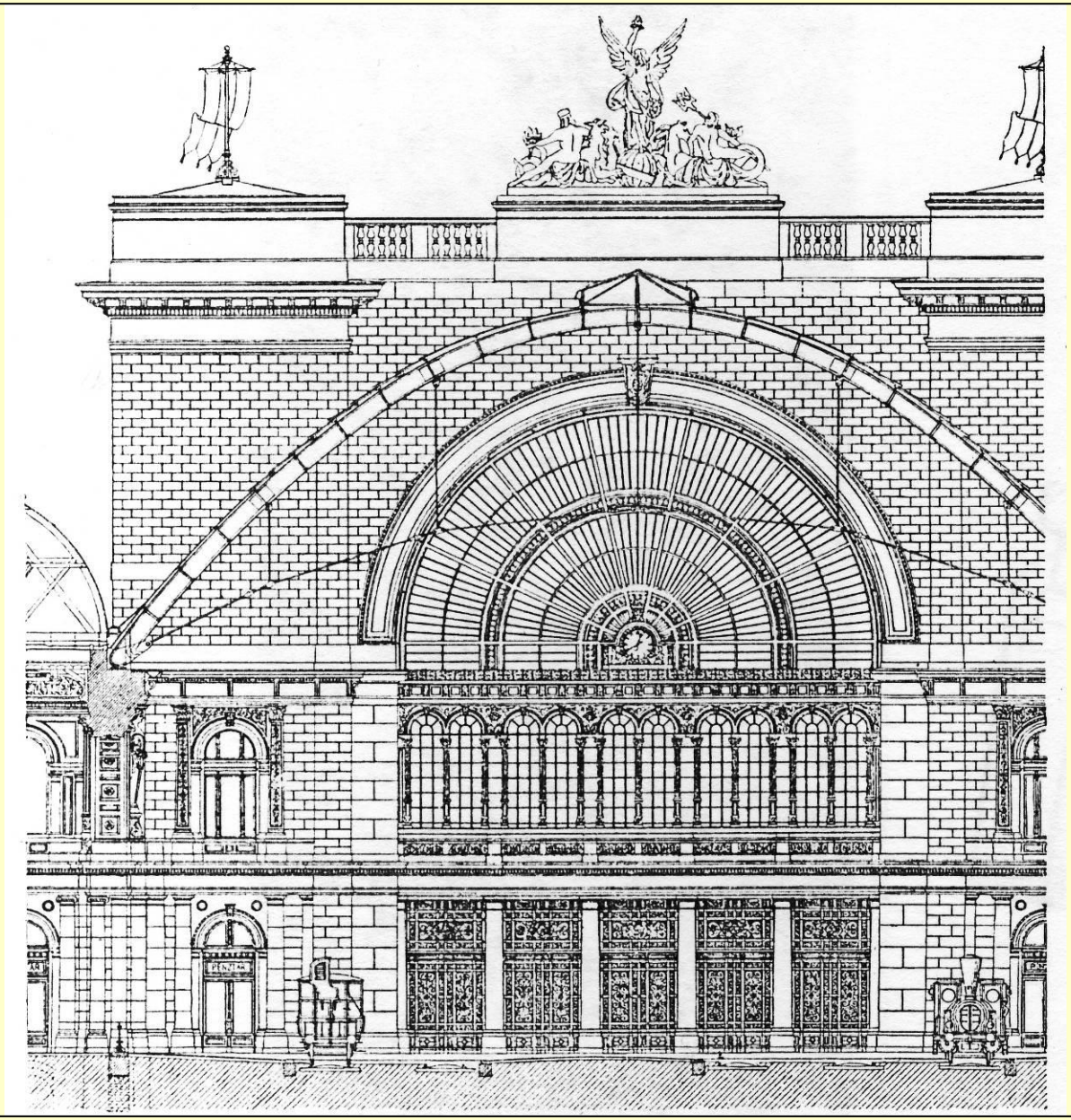
1882-1884

Pályaudvarok, állomások

Budapest, Keleti pályaudvar

Rochlitz Gyula

1882-1884

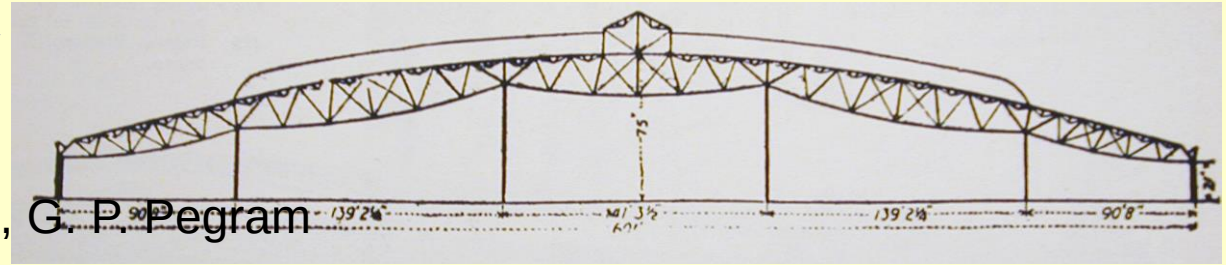


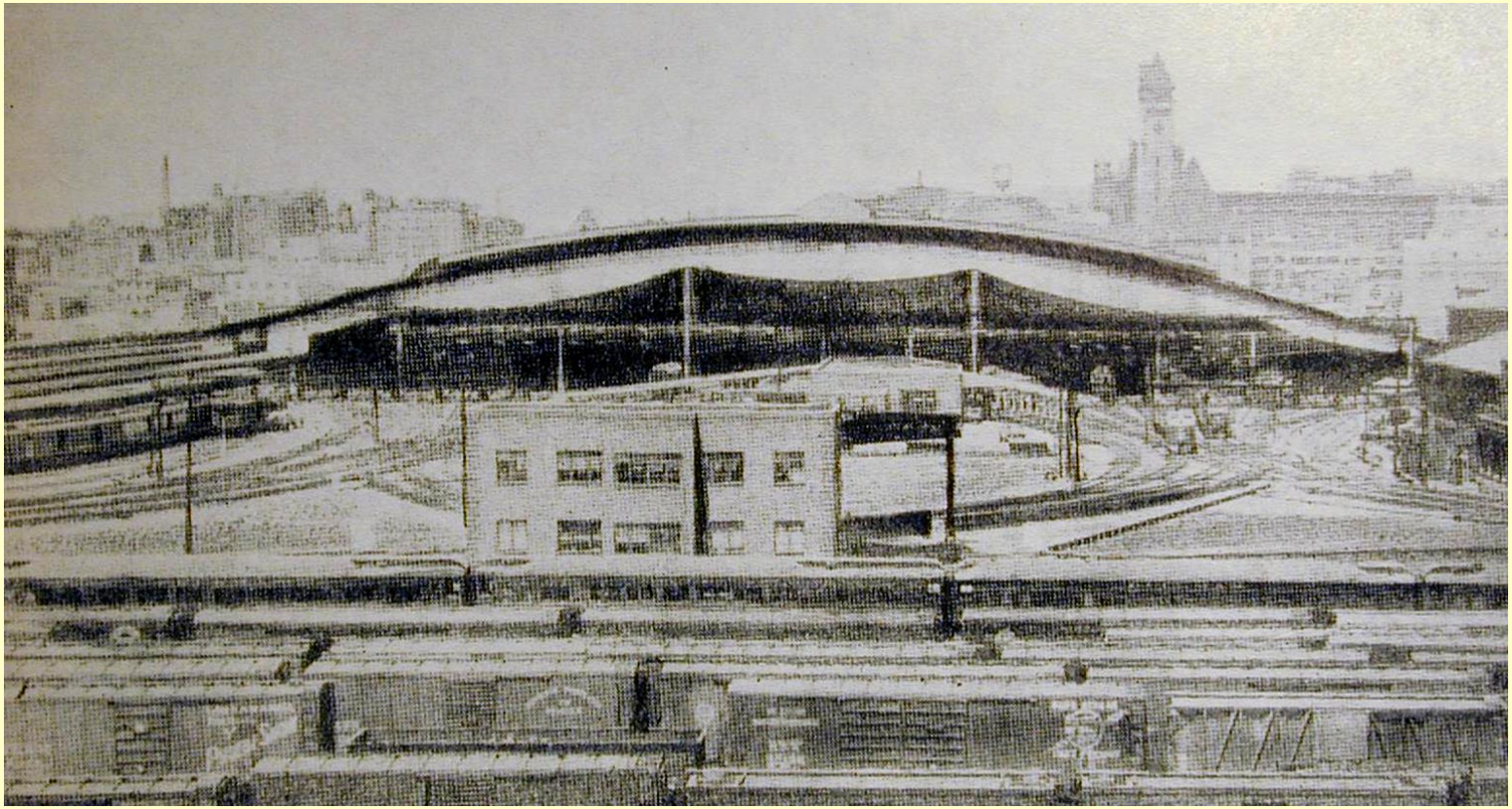
Pályaudvarok, állomások

St. Louis, Union Station

Th. C. Link, E. D. Cameron, G. P. Pegram

1891-1894



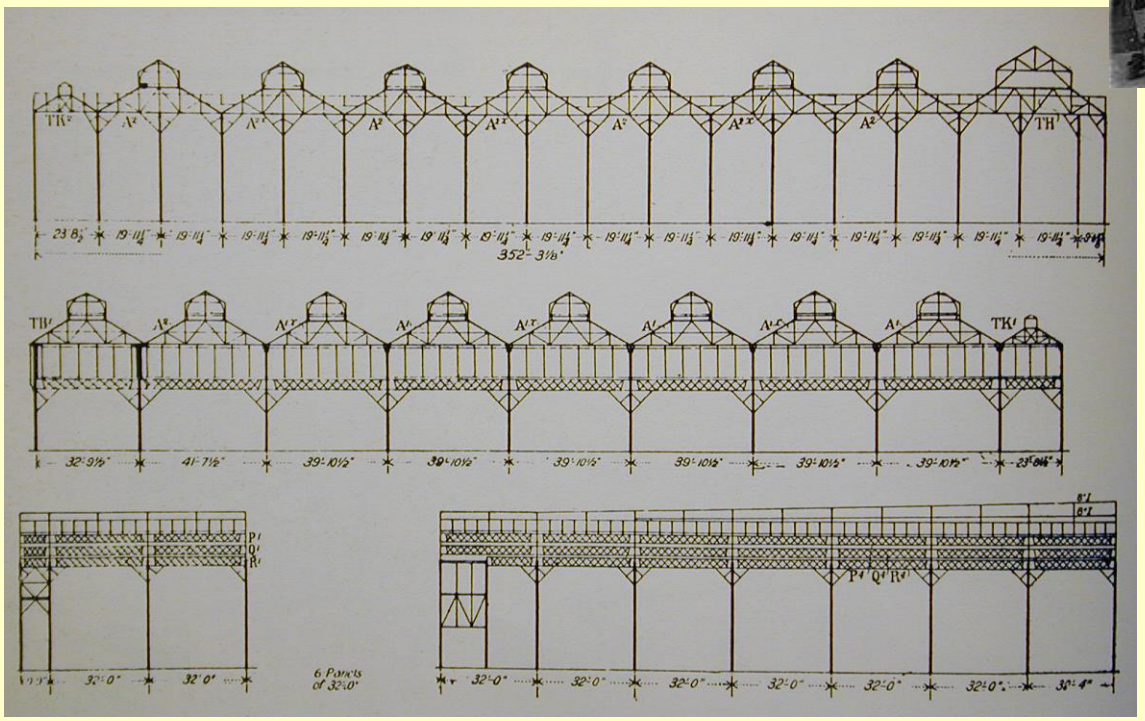


Pályaudvarok, állomások

Boston, North Station

Shepley, Rutan, Coolidge + E. S. Shaw

1891-1894

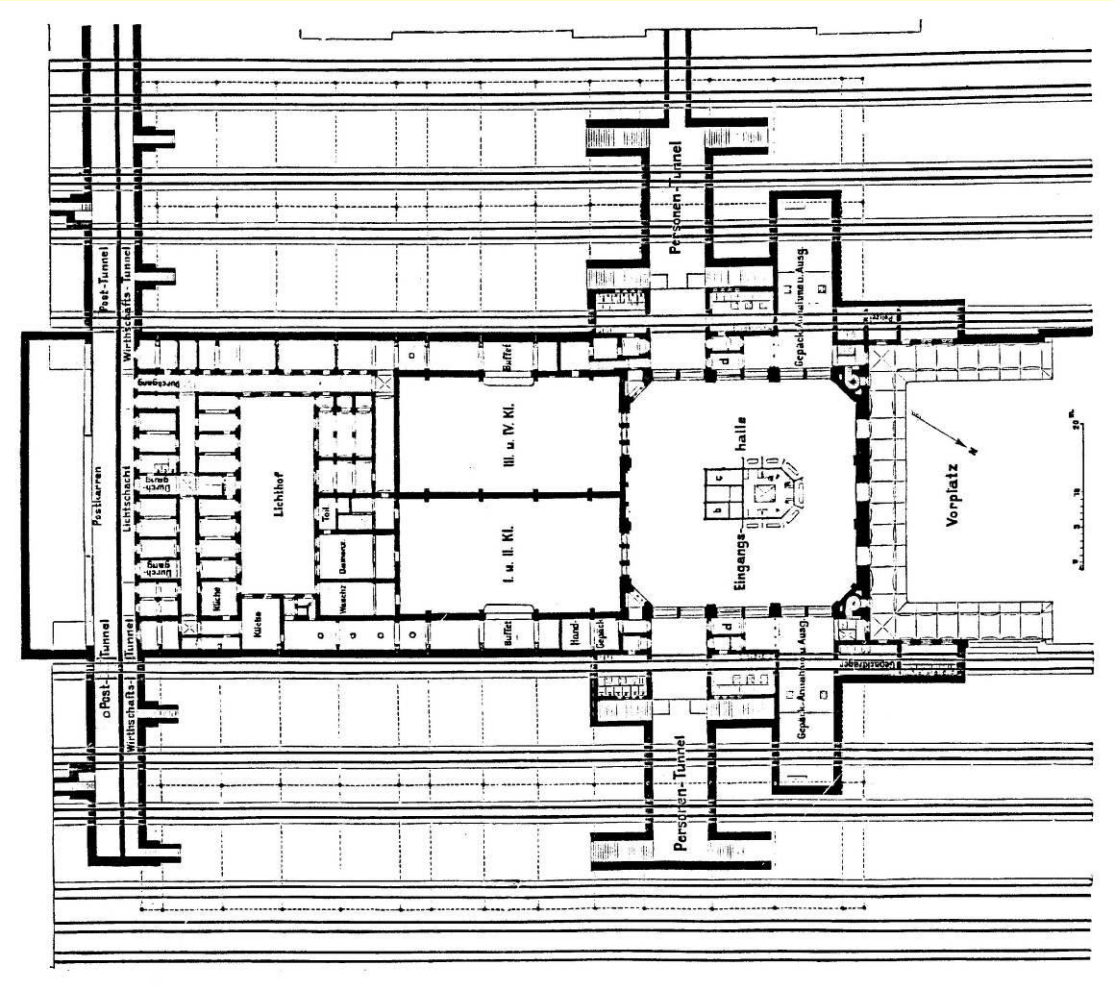


Pályaudvarok, állomások

Halle pályaudvar

Fr. Peltz

1847, 1890

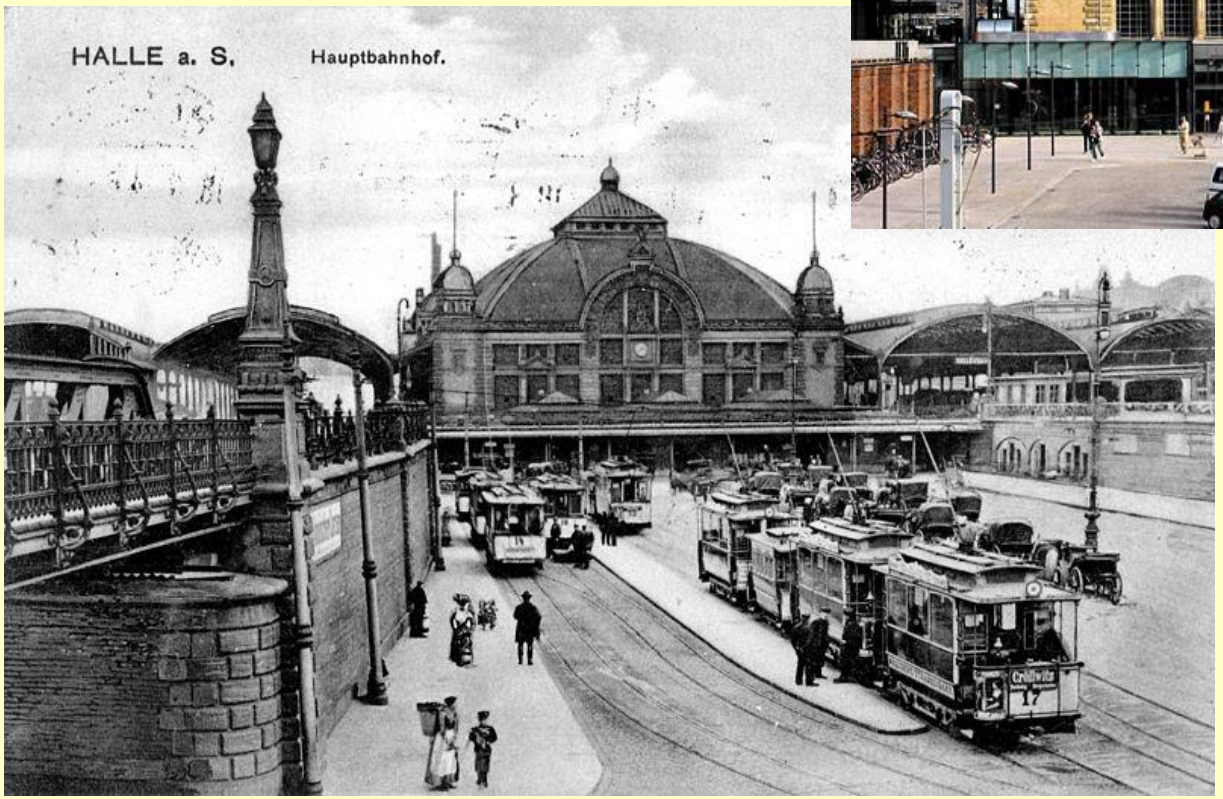


Pályaudvarok, állomások

Halle pályaudvar

Fr. Peltz

1847, 1890

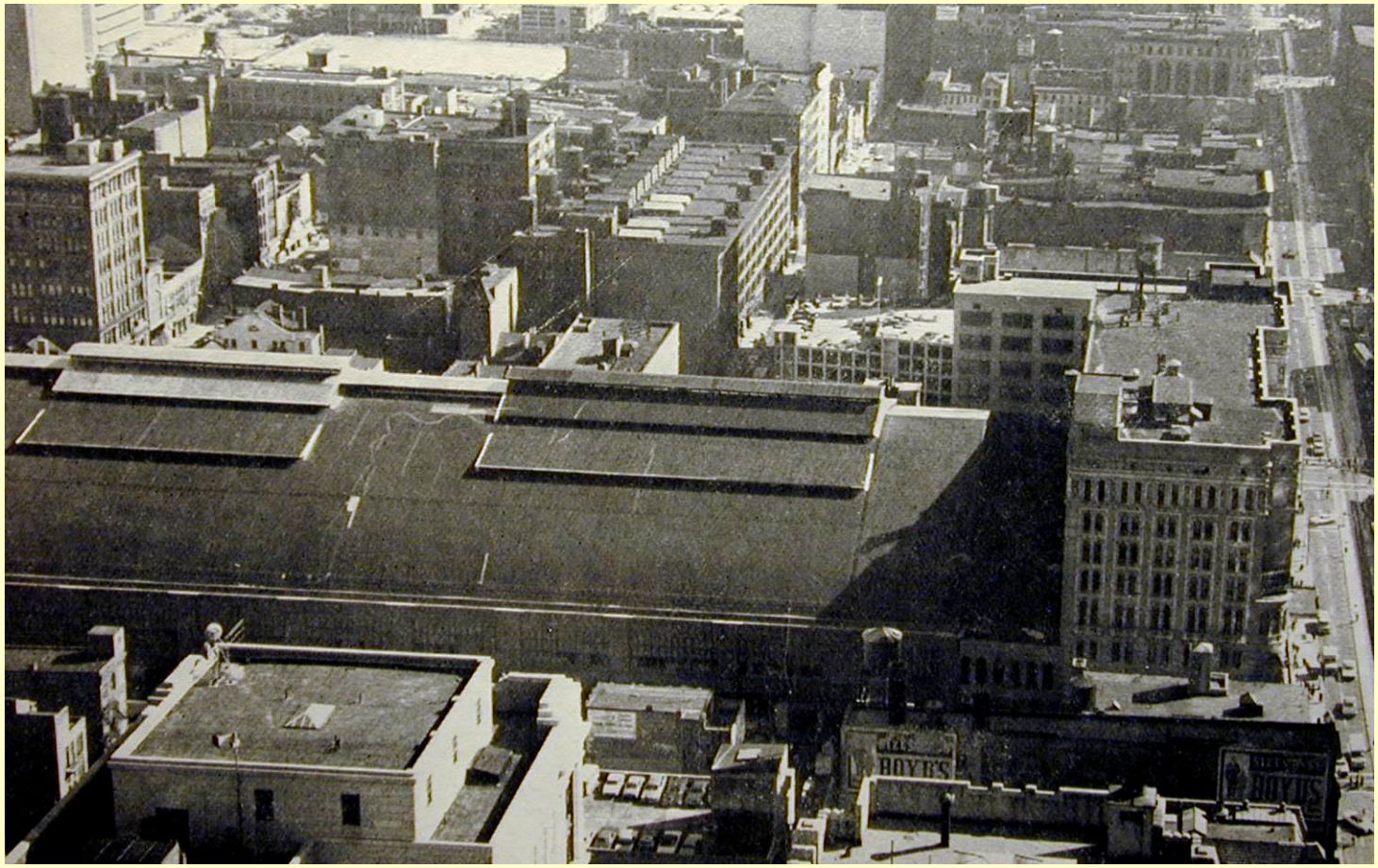


Pályaudvarok, állomások

Philadelphia, Reading Terminal

F. H. Kimball

1893

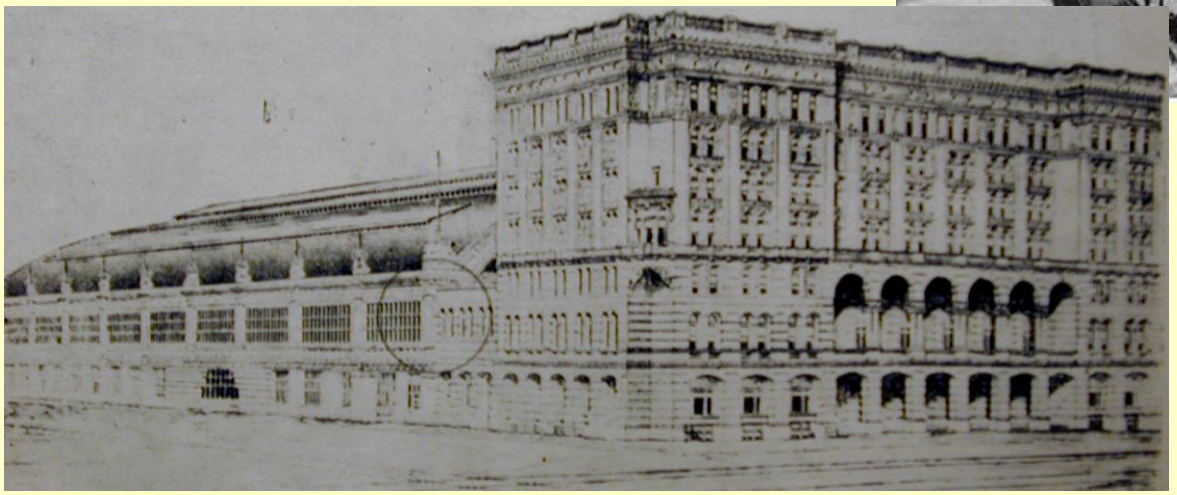


Pályaudvarok, állomások

Philadelphia, Reading Terminal

F. H. Kimball

1893



Pályaudvarok, állomások

Philadelphia, Reading Terminal

F. H. Kimball

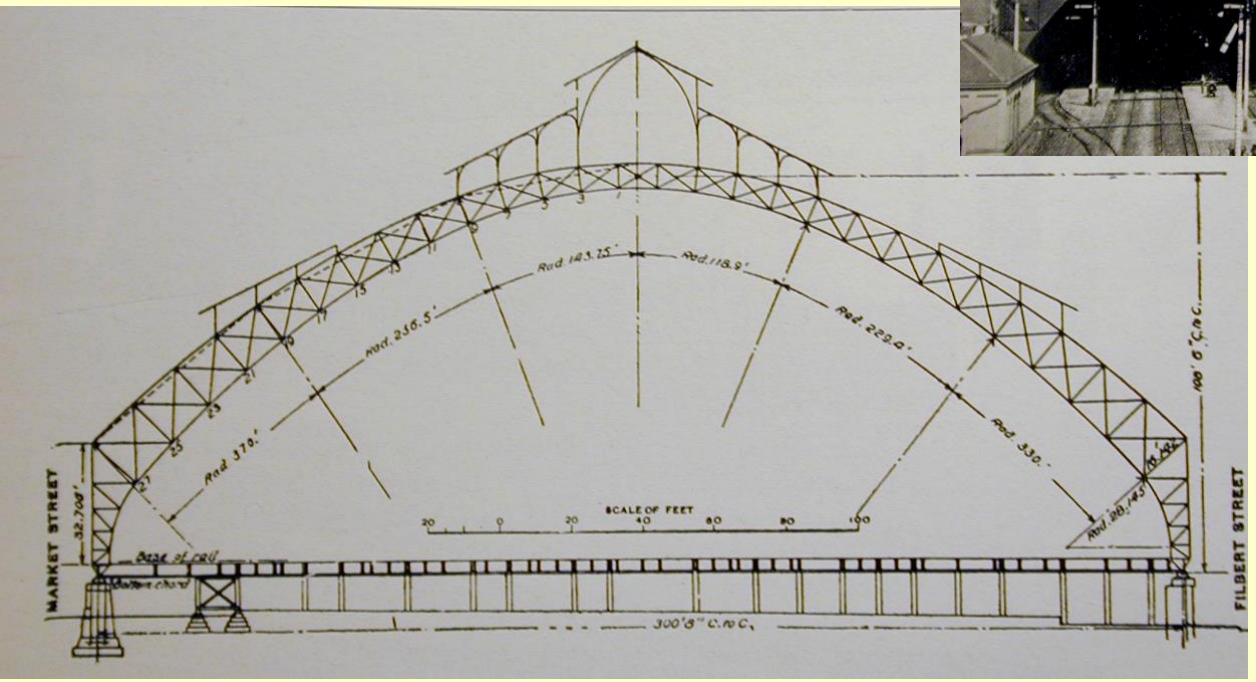
1893

Pályaudvarok, állomások

Philadelphia, Reading Terminal

F. H. Kimball

1893



Pályaudvarok, állomások

Bordeaux, Gare Saint Jean

D. és M. Toudoire

1899

Pályaudvarok, állomások

Bordeaux, Gare Saint Jean

D. és M. Toudoire

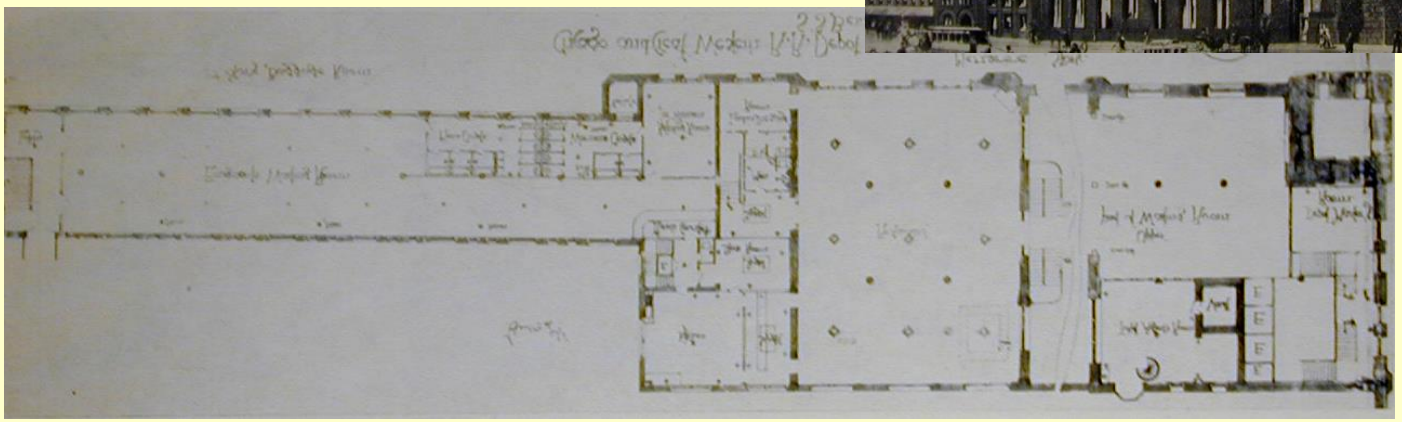
1899

Pályaudvarok, állomások

Chicago, Grand Central Station

S. S. Beman

1899-1900



Pályaudvarok, állomások

Chicago, Grand Central Station

S. S. Beman

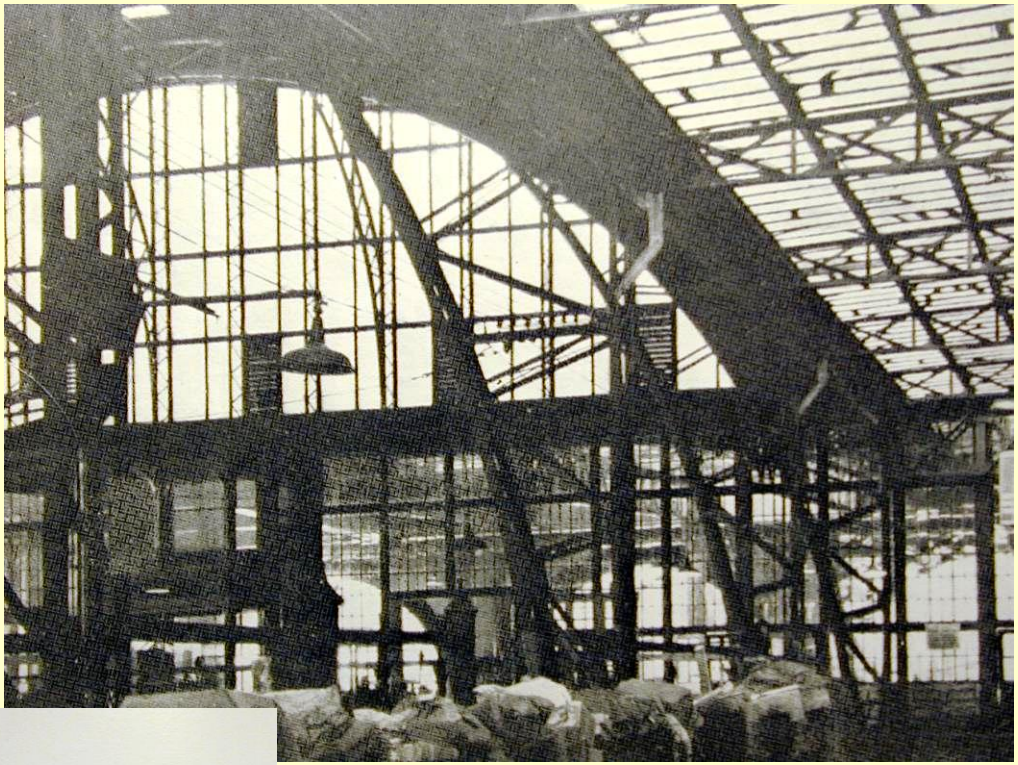
1899-1900

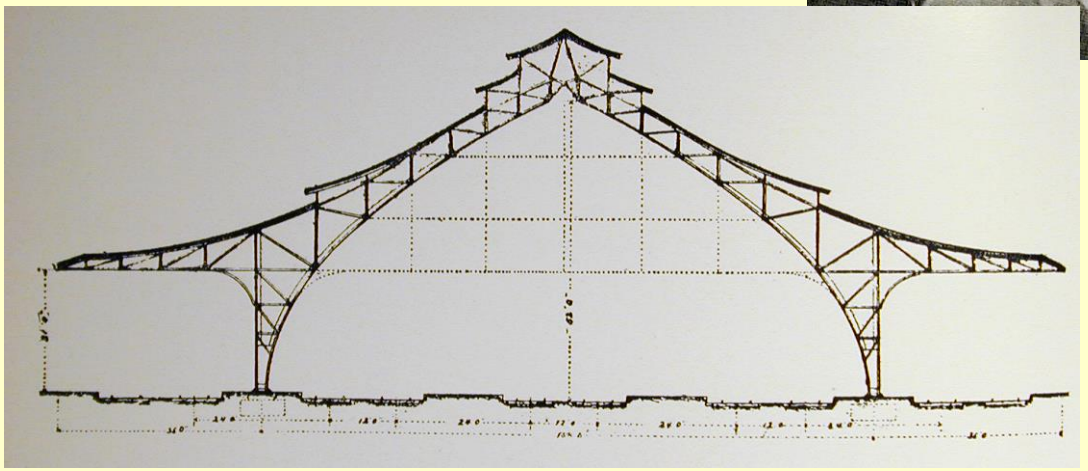
Pályaudvarok, állomások

Chicago, Grand Central Station

S. S. Beman

1899-1900



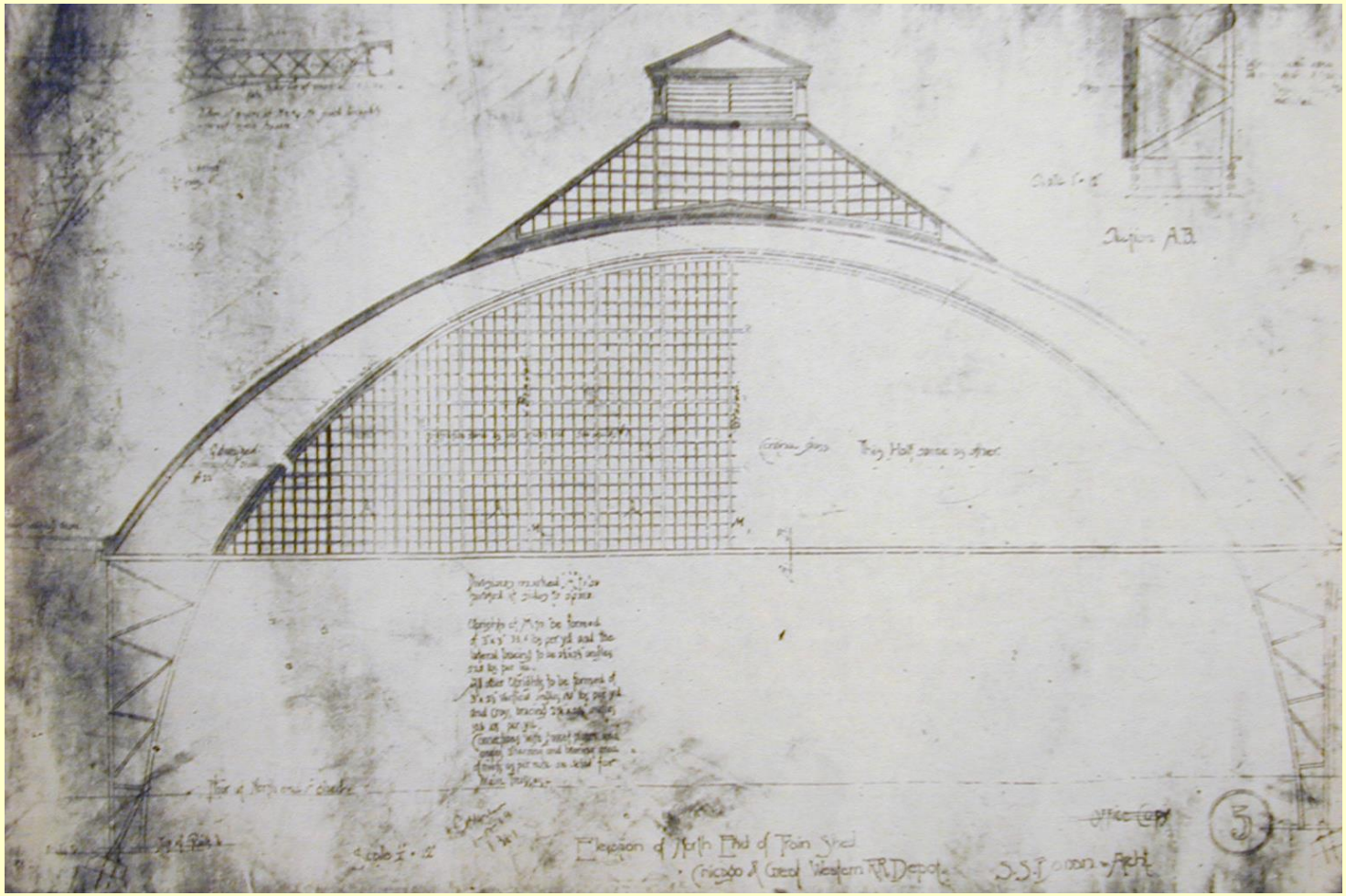


Pályaudvarok, állomások

Chicago, Grand Central Station

S. S. Beman

1899-1900



Pályaudvarok, állomások

Washington, Union Station

D. H. Burnham

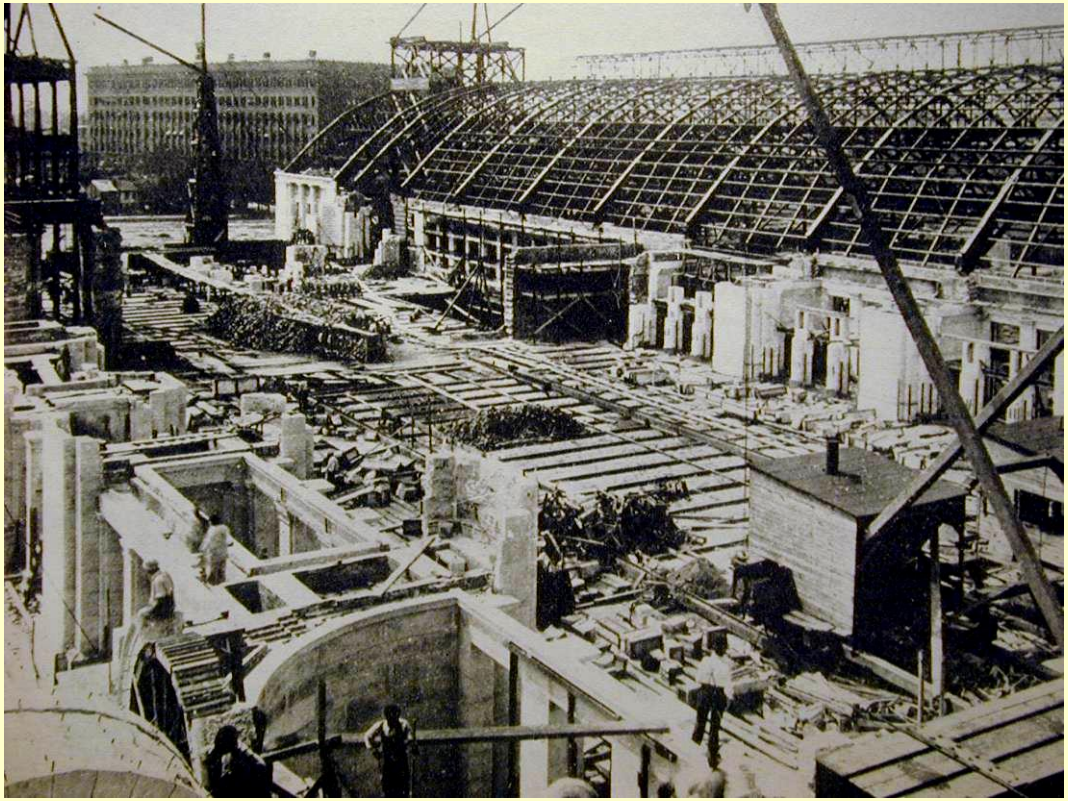
1903-1907

Pályaudvarok, állomások

Washington, Union Station

D. H. Burnham

1903-1907



Pályaudvarok, állomások

New York, Grand Central Terminal

C. A. Reed & A. Stem + Warren & Wetmore

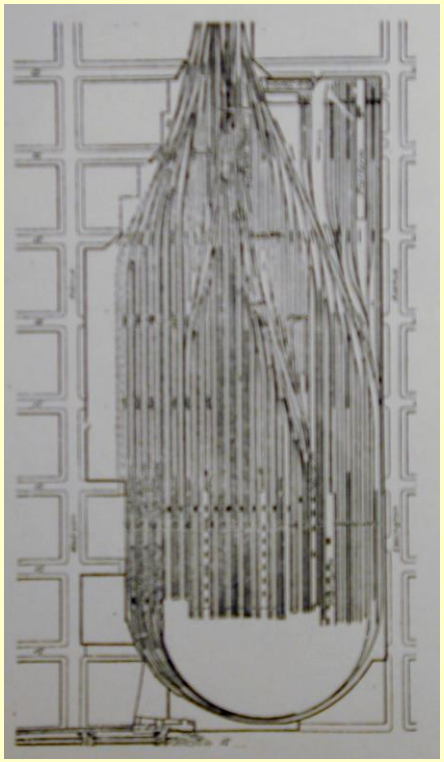
1903-1913

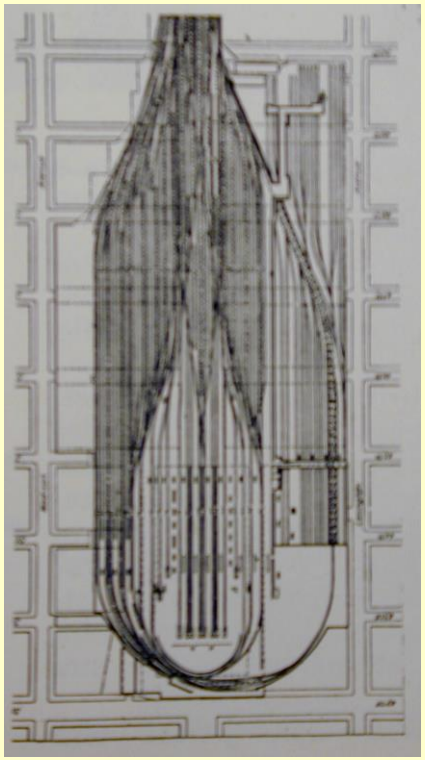
Pályaudvarok, állomások

New York, Grand Central Terminal

C. A. Reed & A. Stem + Warren & Wetmore

1903-1913



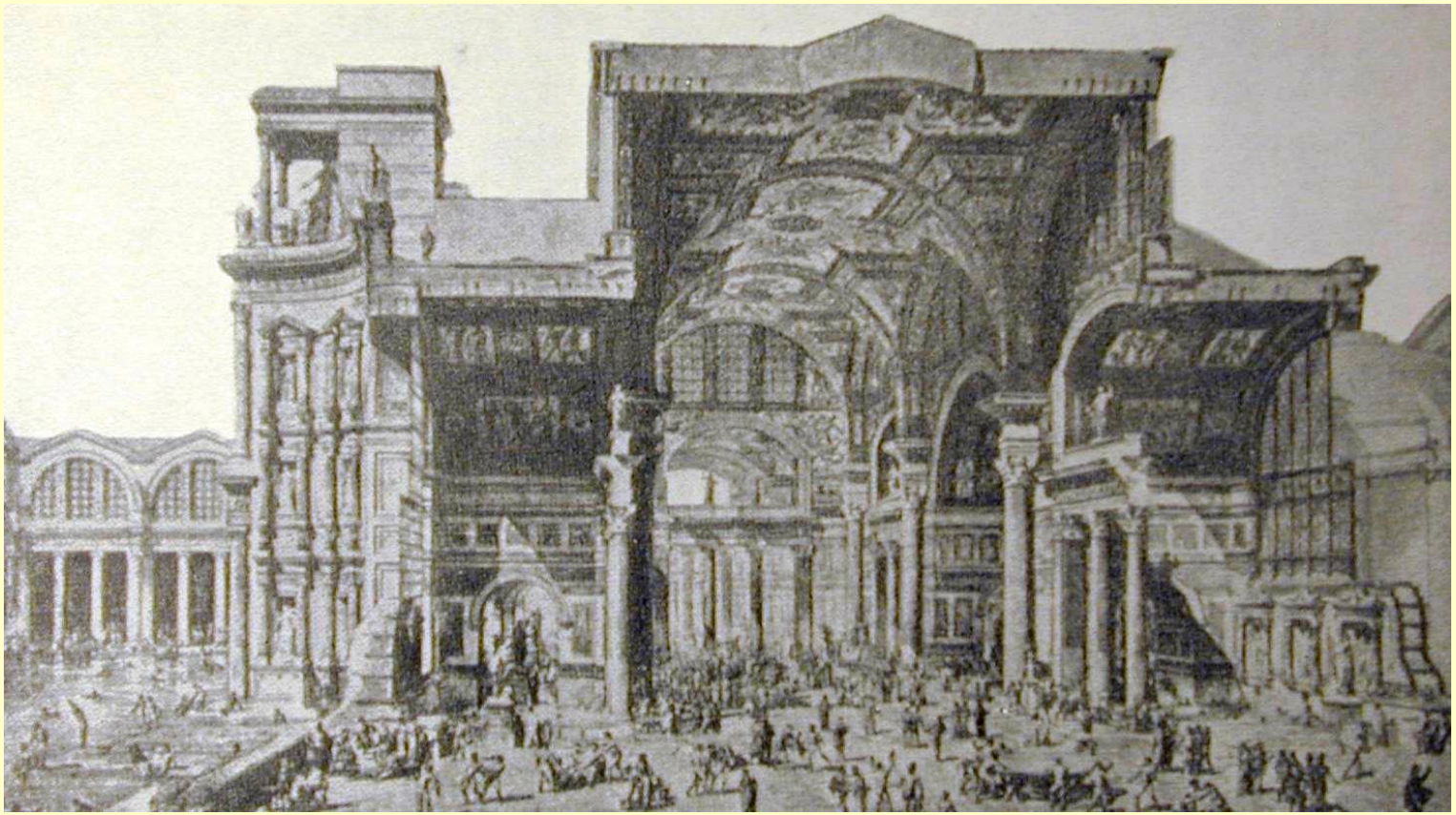


Pályaudvarok, állomások

New York, Grand Central Terminal

C. A. Reed & A. Stem + Warren & Wetmore

1903-1913

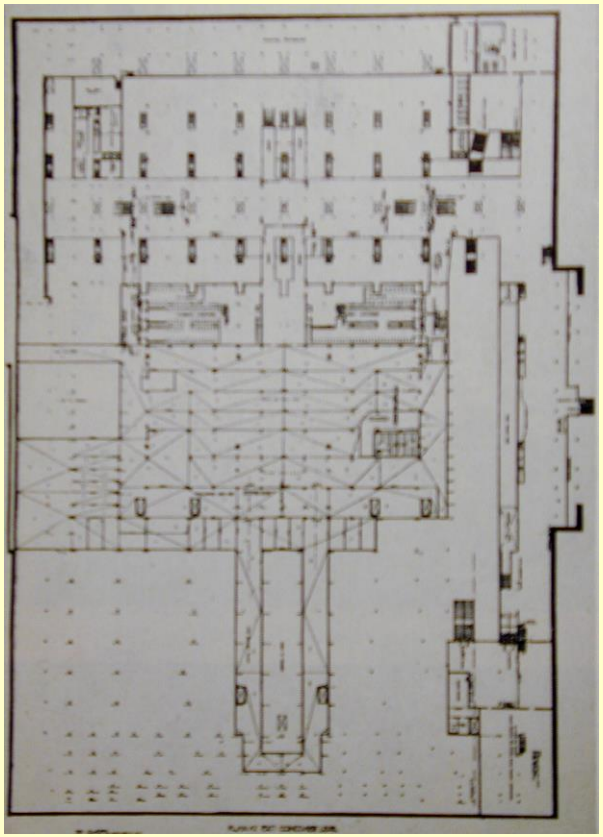


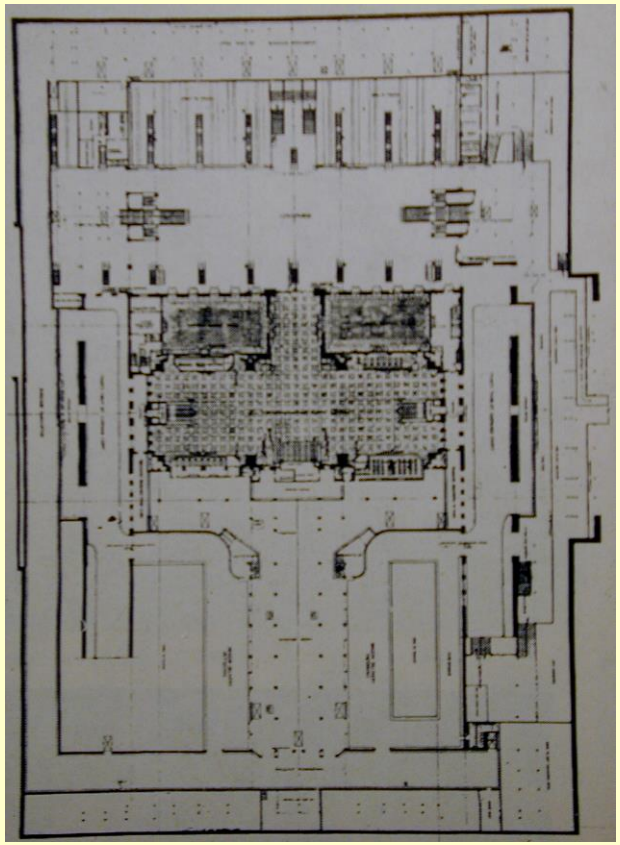
Pályaudvarok, állomások

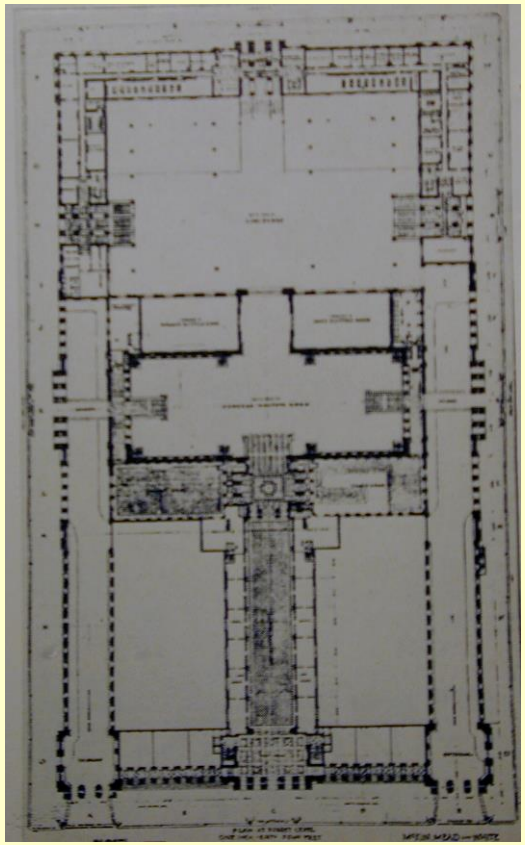
New York, Pennsylvania Station

McKim, Mead, White

1906-1910





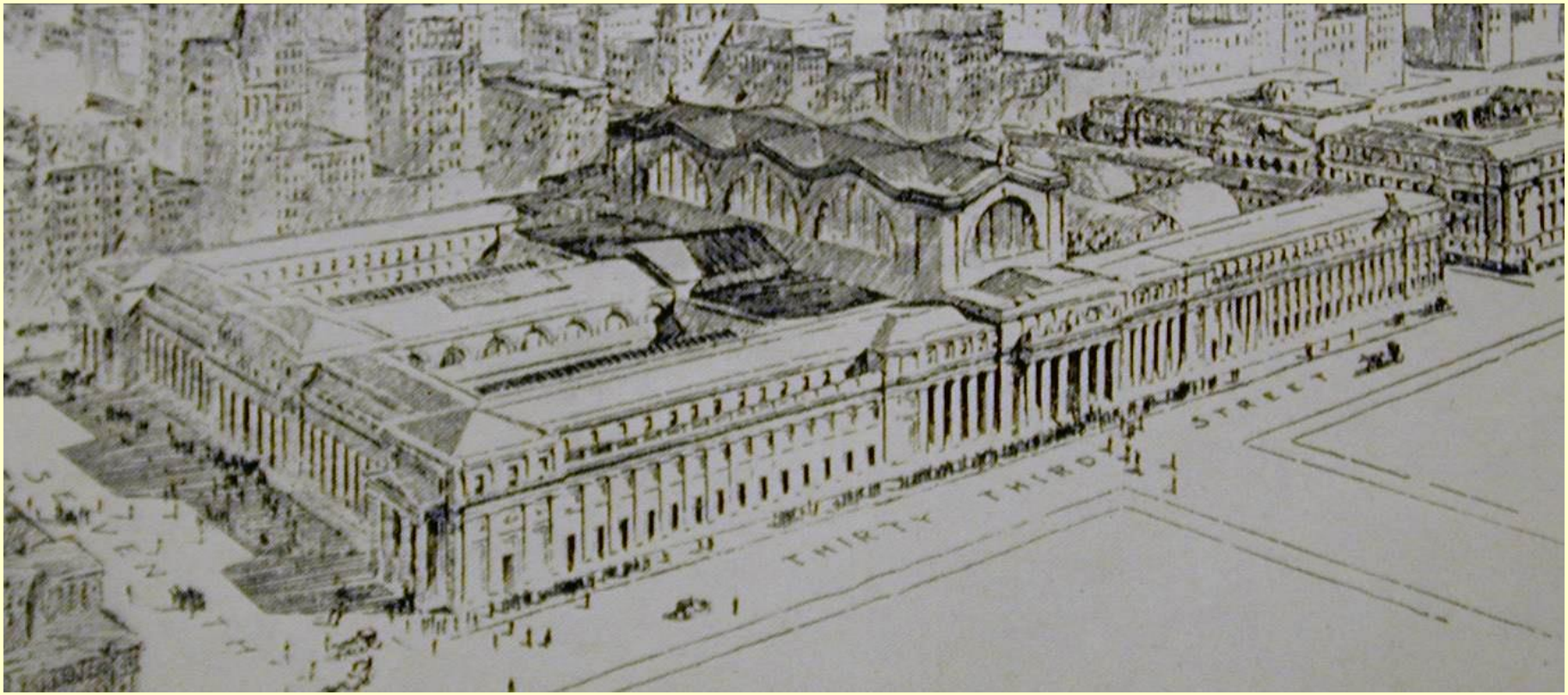


Pályaudvarok, állomások

New York, Pennsylvania Station

McKim, Mead, White

1906-1910



Pályaudvarok, állomások

New York, Pennsylvania Station

McKim, Mead, White

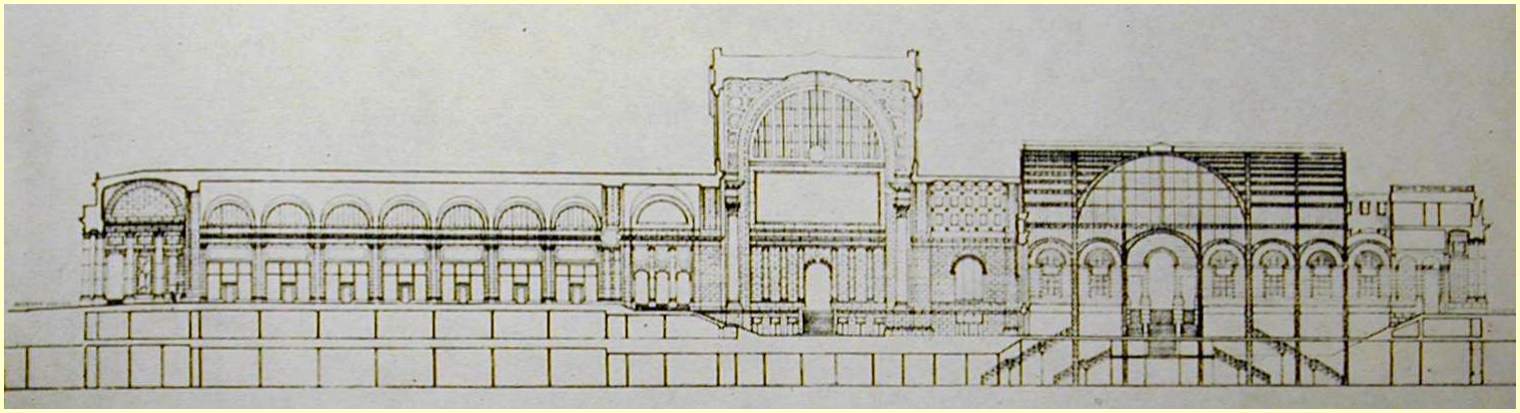
1906-1910

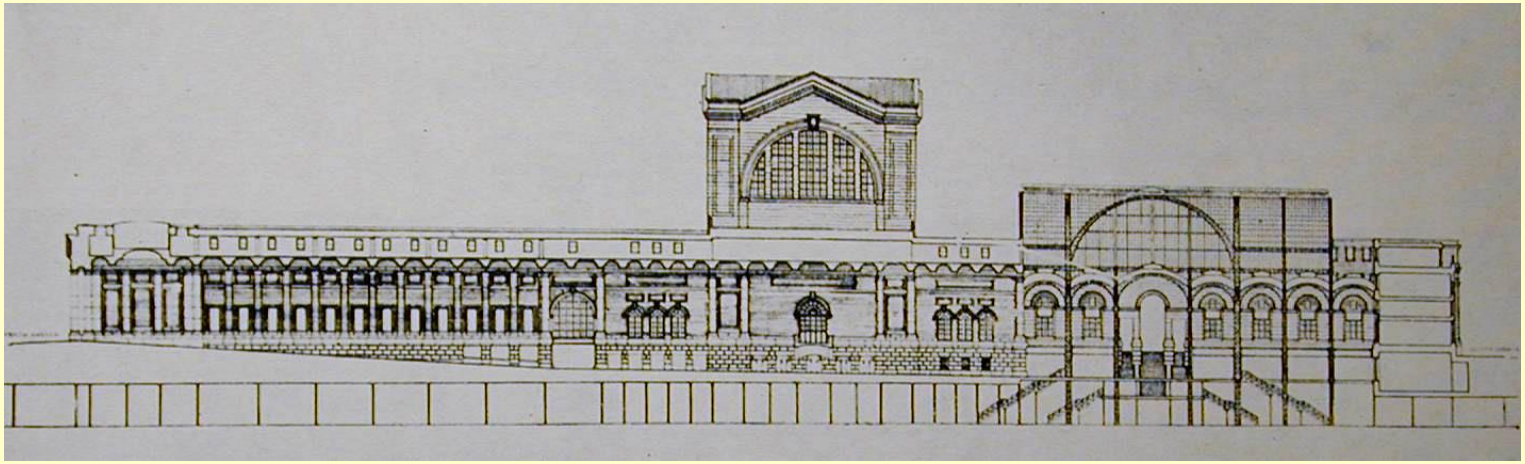
Pályaudvarok, állomások

New York, Pennsylvania Station

McKim, Mead, White

1906-1910



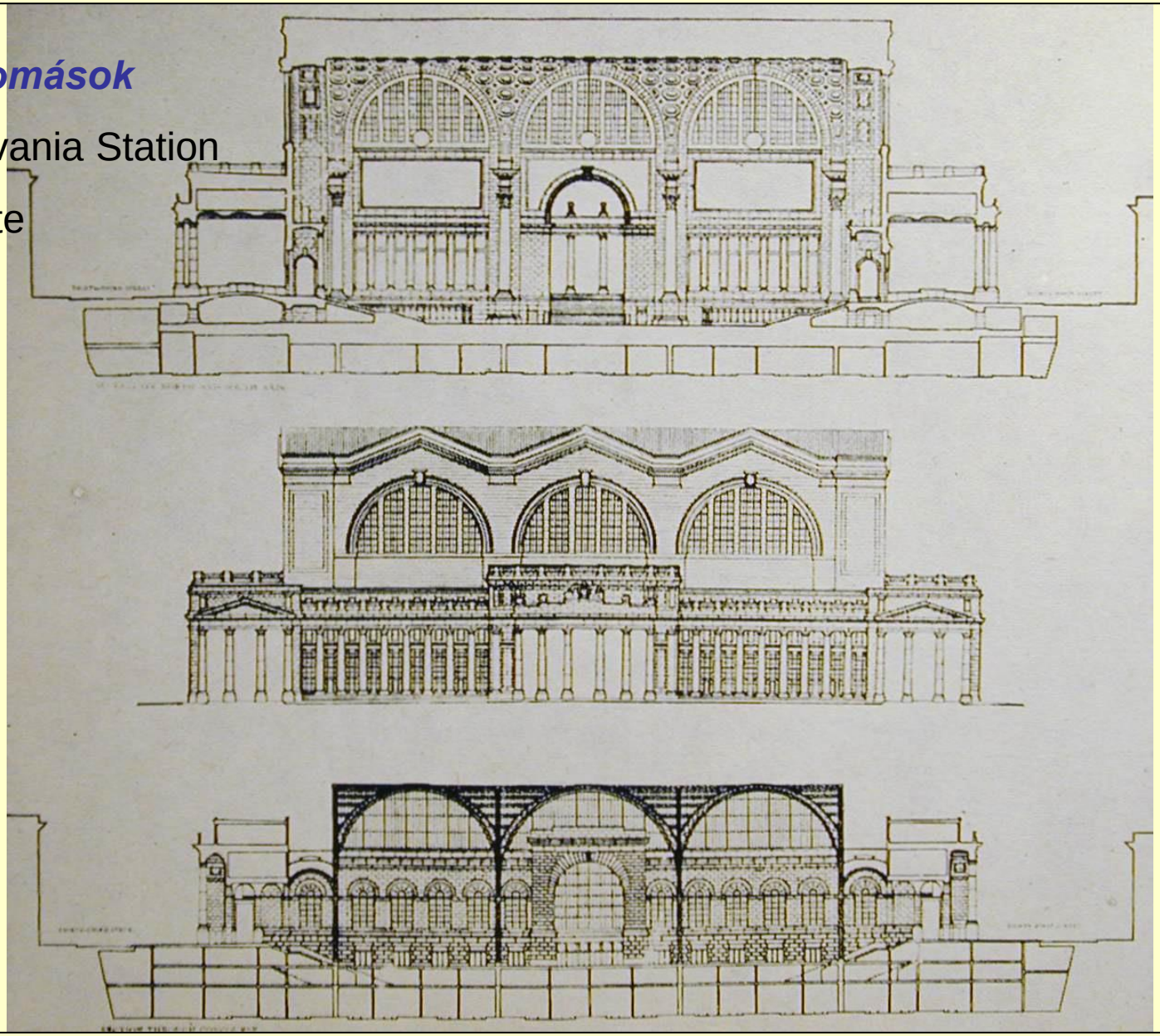


Pályaudvarok, állomások

New York, Pennsylvania Station

McKim, Mead, White

1906-1910

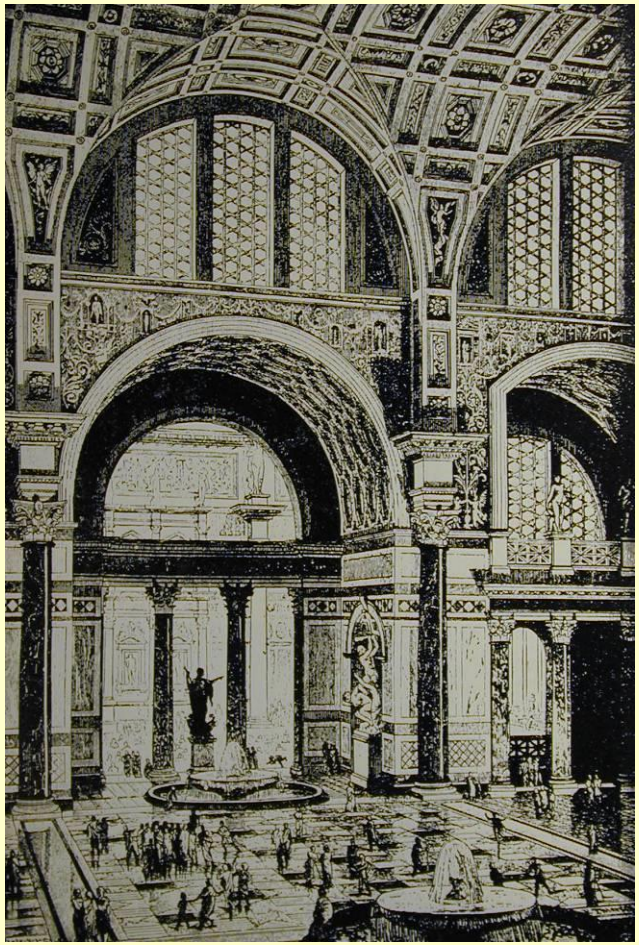


Pályaudvarok, állomások

New York, Pennsylvania Station

McKim, Mead, White

1906-1910



Pályaudvarok, állomások

New York, Pennsylvania Station

McKim, Mead, White

1906-1910