CORSO TEORICO PRATICO

SULLA

COSTRUZIONE DEI PONTI METALLICI

AD USO

DEGLI INGEGNERI E COSTRUTTORI

E

DEGLI ALLIEVI DELLE SCUOLE D'APPLICAZIONE

PER L'INGEGNERE

PIO D.r CHICCHI

PROFESSORE DI PONTI, STRADE E FERROVIE NELLA R. SCUOLA DI APPLICAZIONE
ANNESSA ALL'UNIVERSITÀ DI PADOVA

SECONDA EDIZIONE
RIORDINATA CON MOLTE AGGIUNTE

L'opera si compone di un Volume di testo, di un Atlante di 60 Tavole in folio
e di un Atlante di 45 Tavole in 4.°

ATLANTE
DI 60 TAVOLE IN FOLIO

EDITORI
AUG. FED. NEGRO — Via Alfieri, N. 4. — Torino
ANGELO DRAGHI — Via Morsari, N. 384 — Padova

1886

Sei Ponti vedi Scienze per Tutto 1/1/1922

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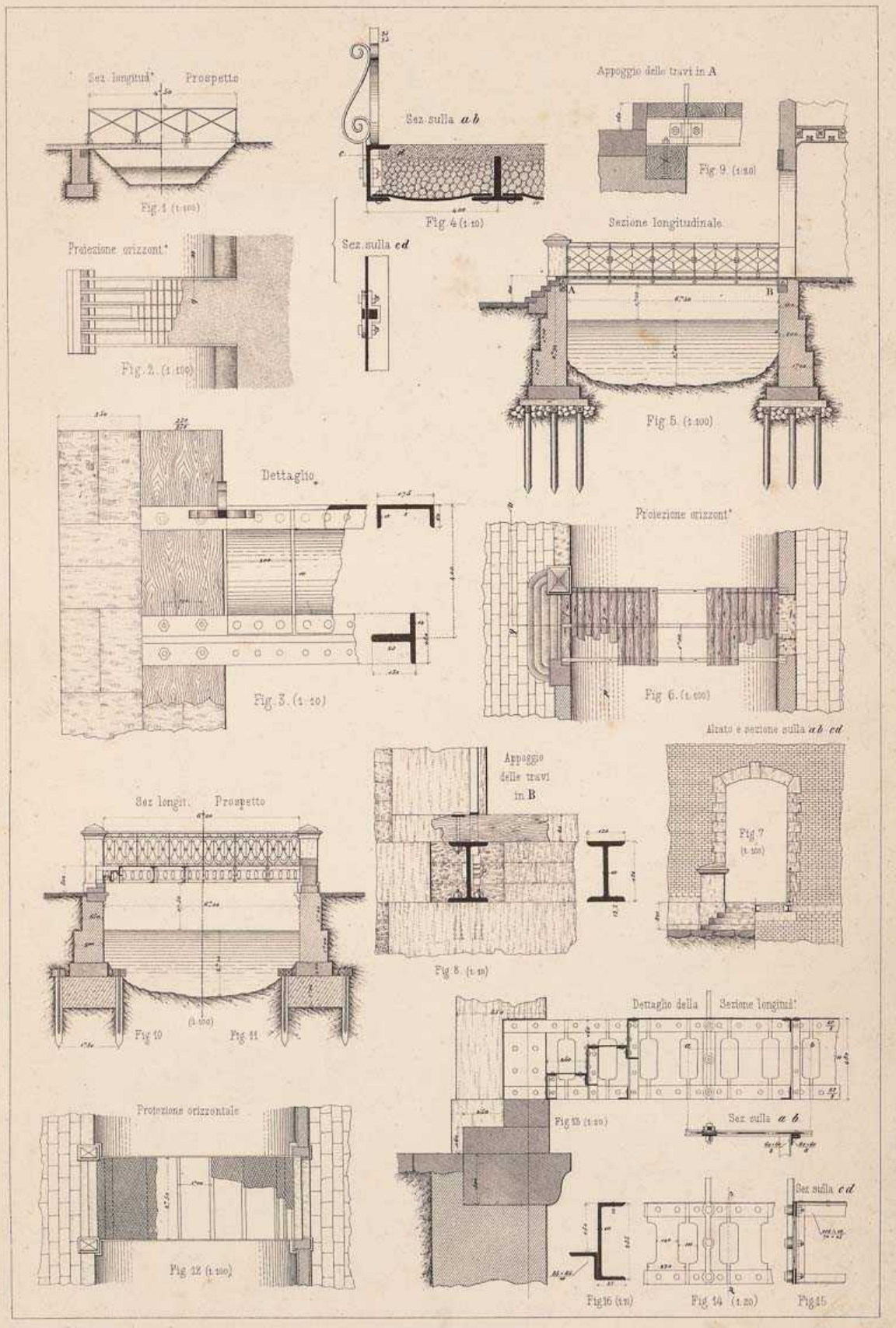
1886.

PONTI A TRAVATA RETTILINEA

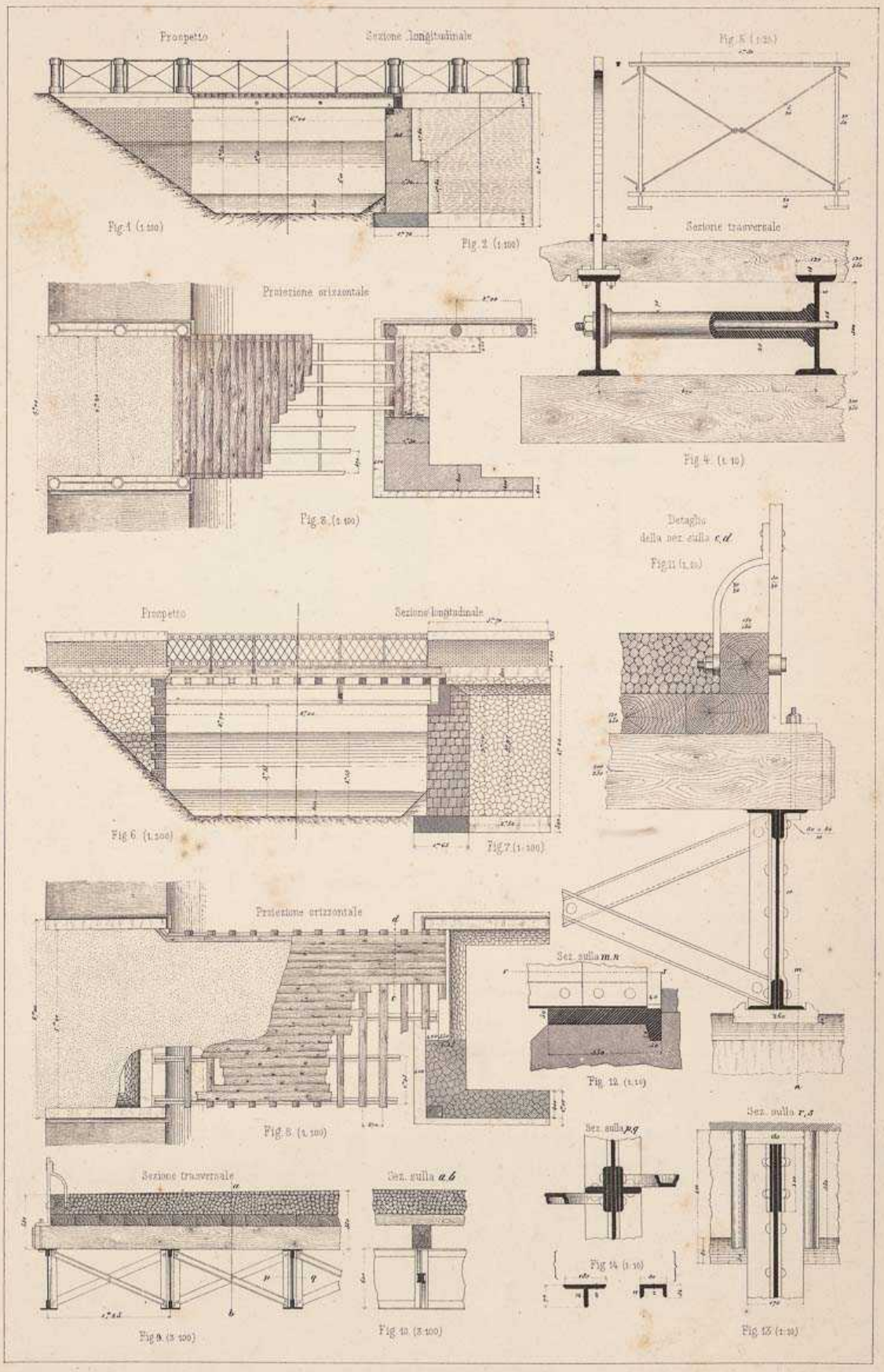
PICCOLA PORTATA — PEDONALI (PASSERELLE)



PONTI A TRAVATA RETTILINEA

PICCOLA PORTATA

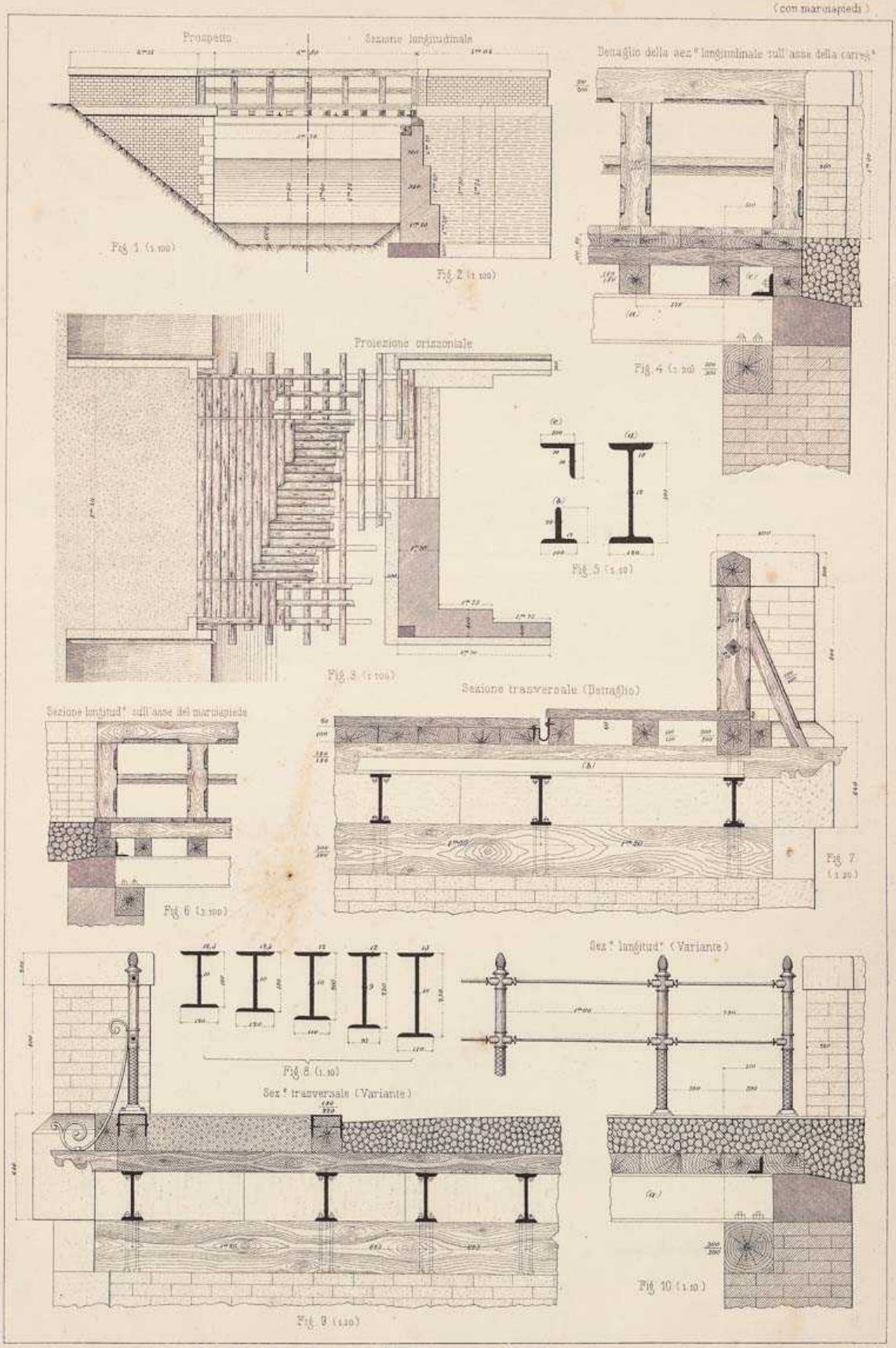
PER STRADA ORDINARIA



PONTI A TRAVATA RETTILINEA

DI PICCOLA PORTATA

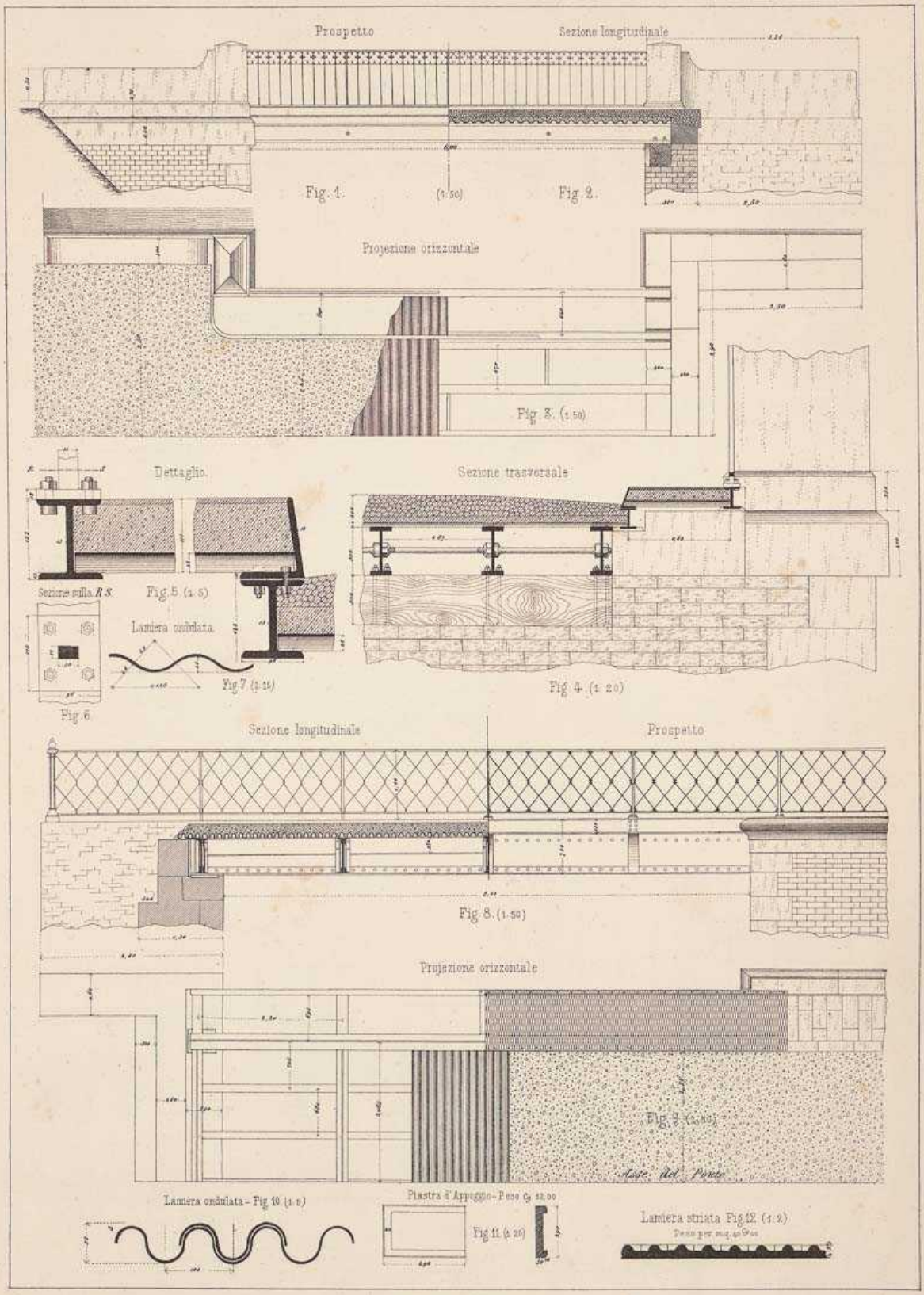
PER STRADA ORDINARIA
(con marciapiedi)



PONTI A TRAVATA RETTILINEA

PICCOLA PORTATA

PER STRADA ORDINARIA
(con marciapiedi)



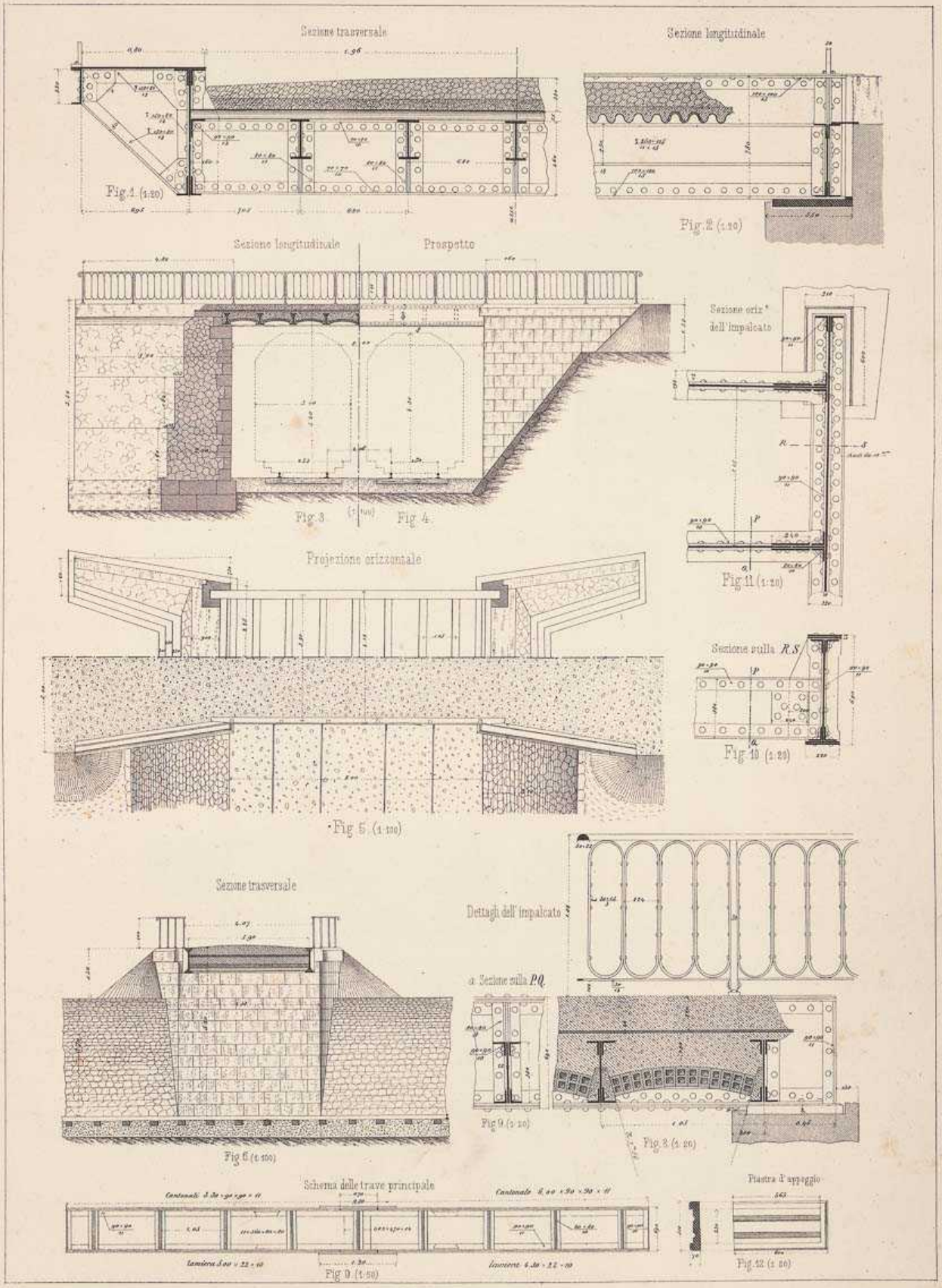
STAB. PROSPERINI

CHICCHI - PONTI METALLICI

C. STROBL INC.

PONTI A TRAVATA RETTILINEA

PICCOLA PORTATA — PER STRADA ORDINARIA



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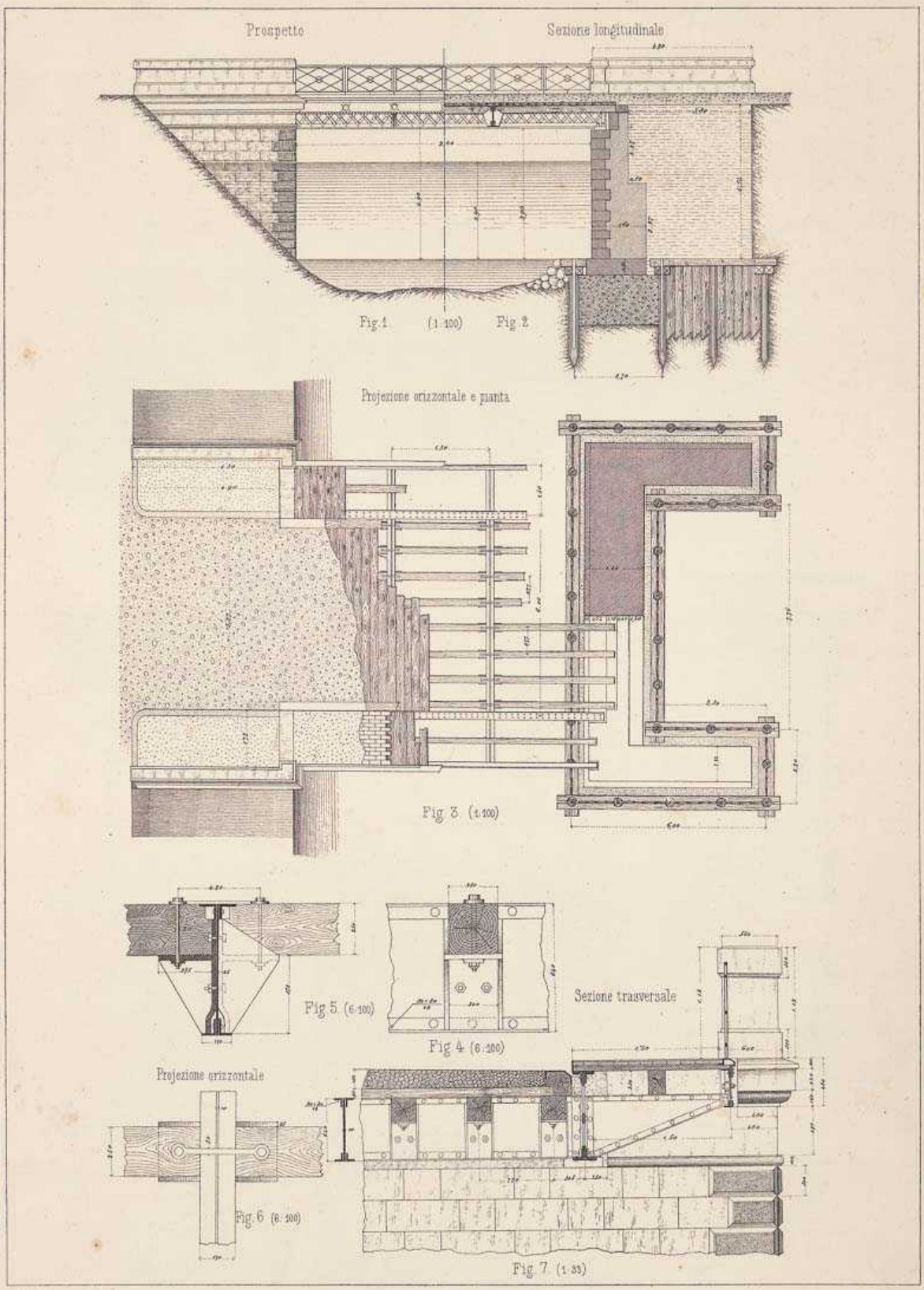
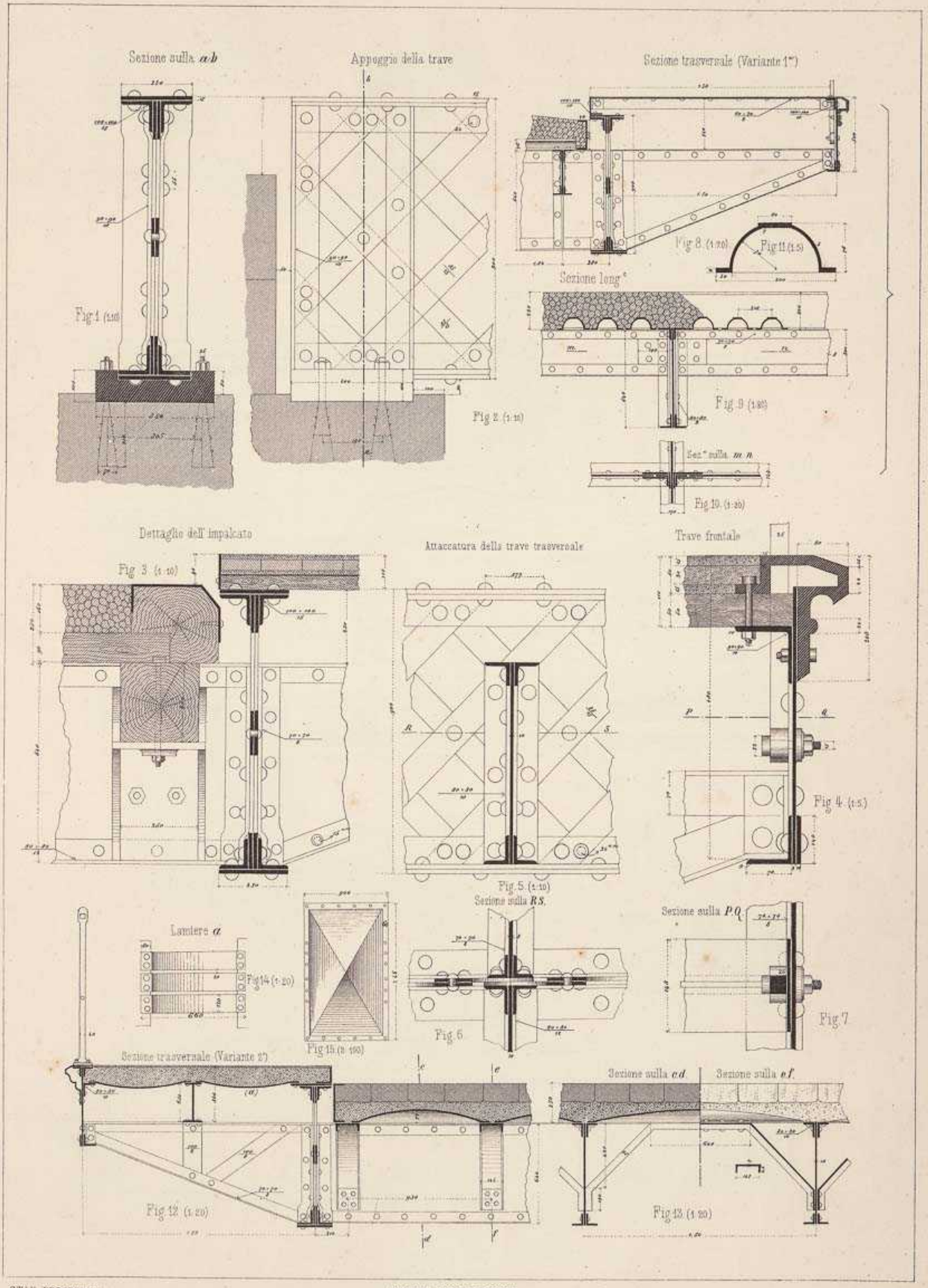
PICCOLA PORTATA — PER STRADA ORDINARIA



PONTI A TRAVATA RETTILINEA

PICCOLA PORTATA

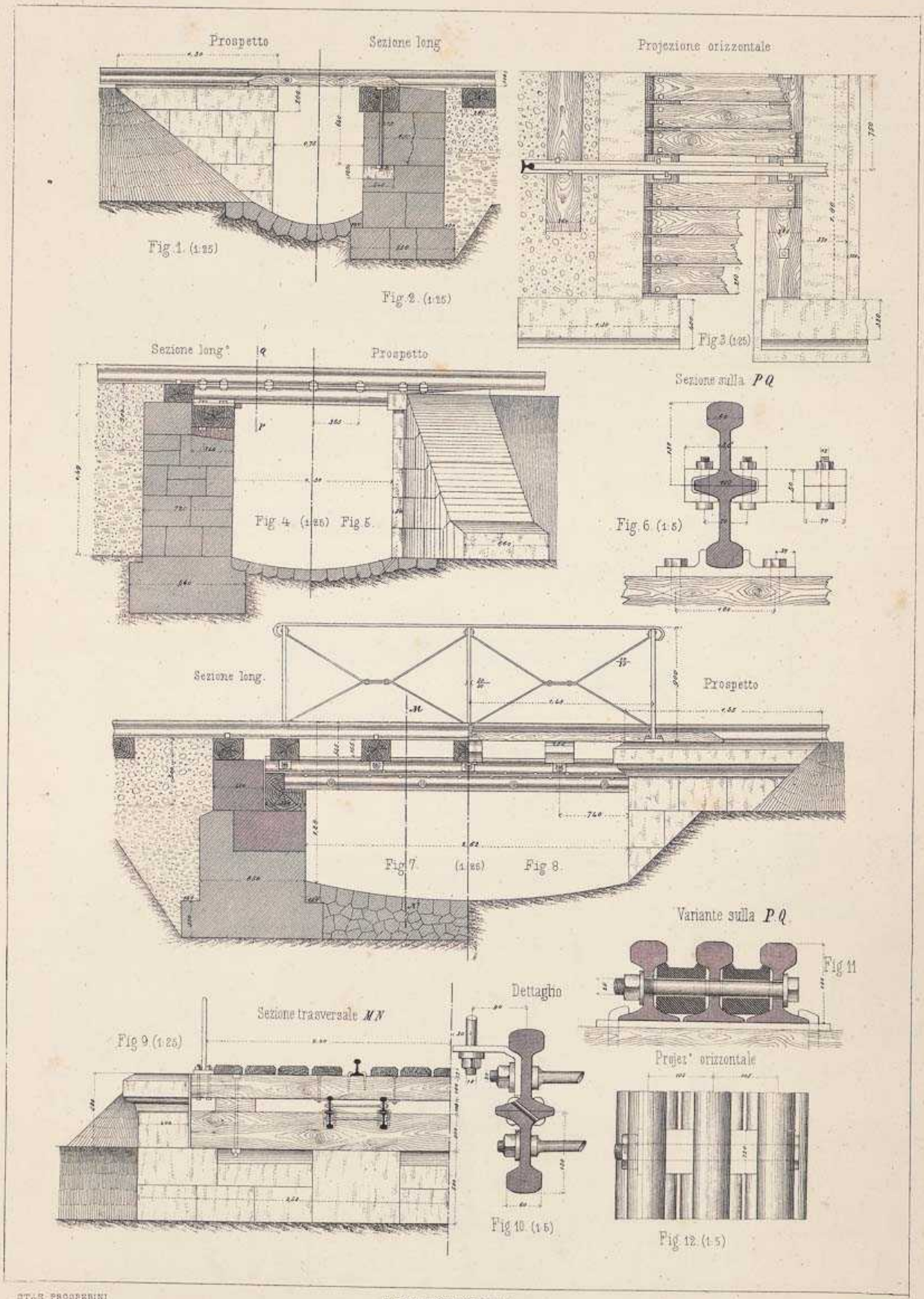
PER STRADA ORDINARIA



PONTI A TRAVATA RETTILINEA

PICCOLA PORTATA

PER FERROVIA



STAB. PROSPERINI

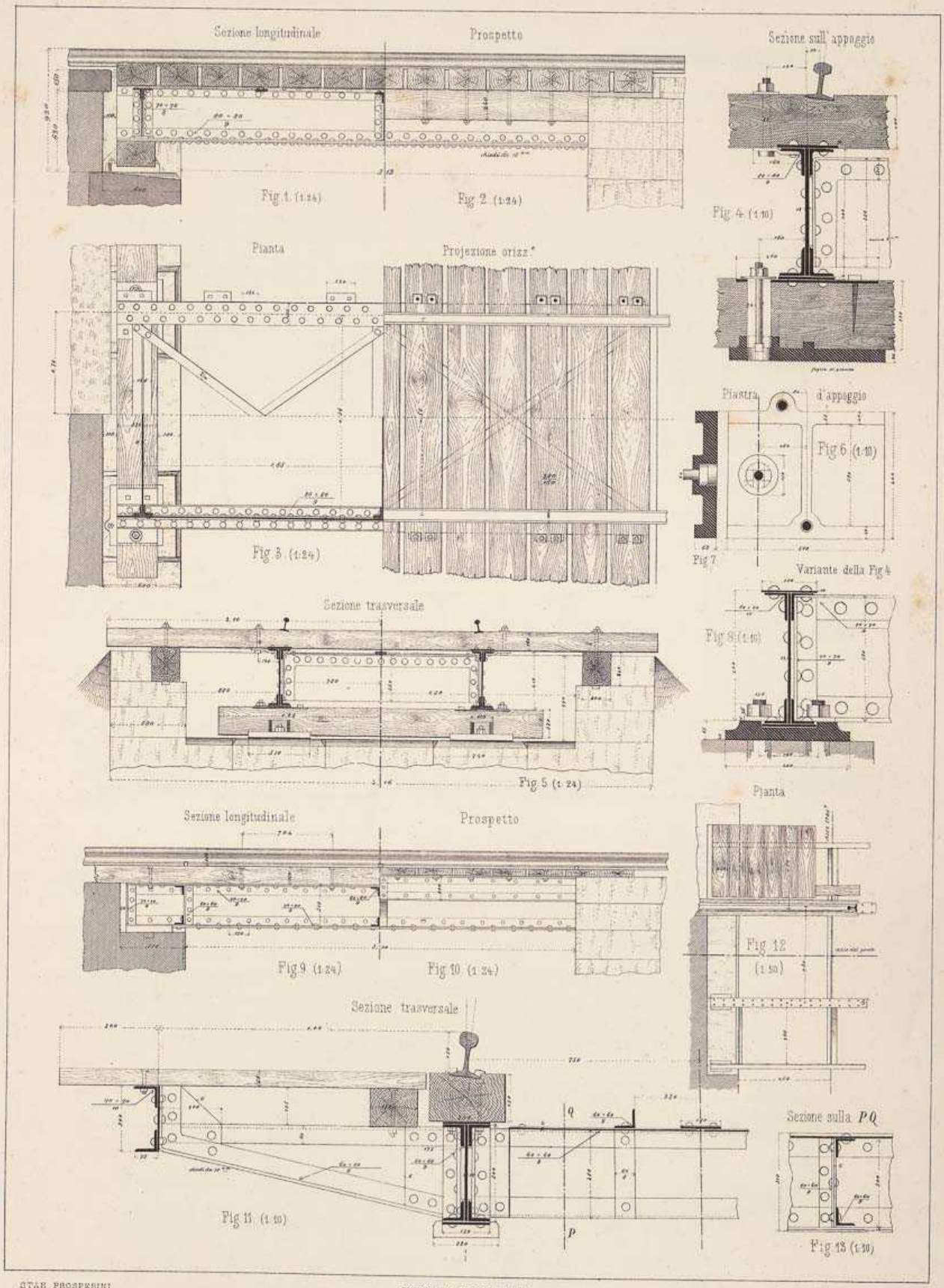
CHICCHI - PONTI METALLICI

G. STROBL INC.

PONTI A TRAVATA RETTILINEA

PICCOLA PORTATA

PER FERROVIA



STAB. PROSPERINI

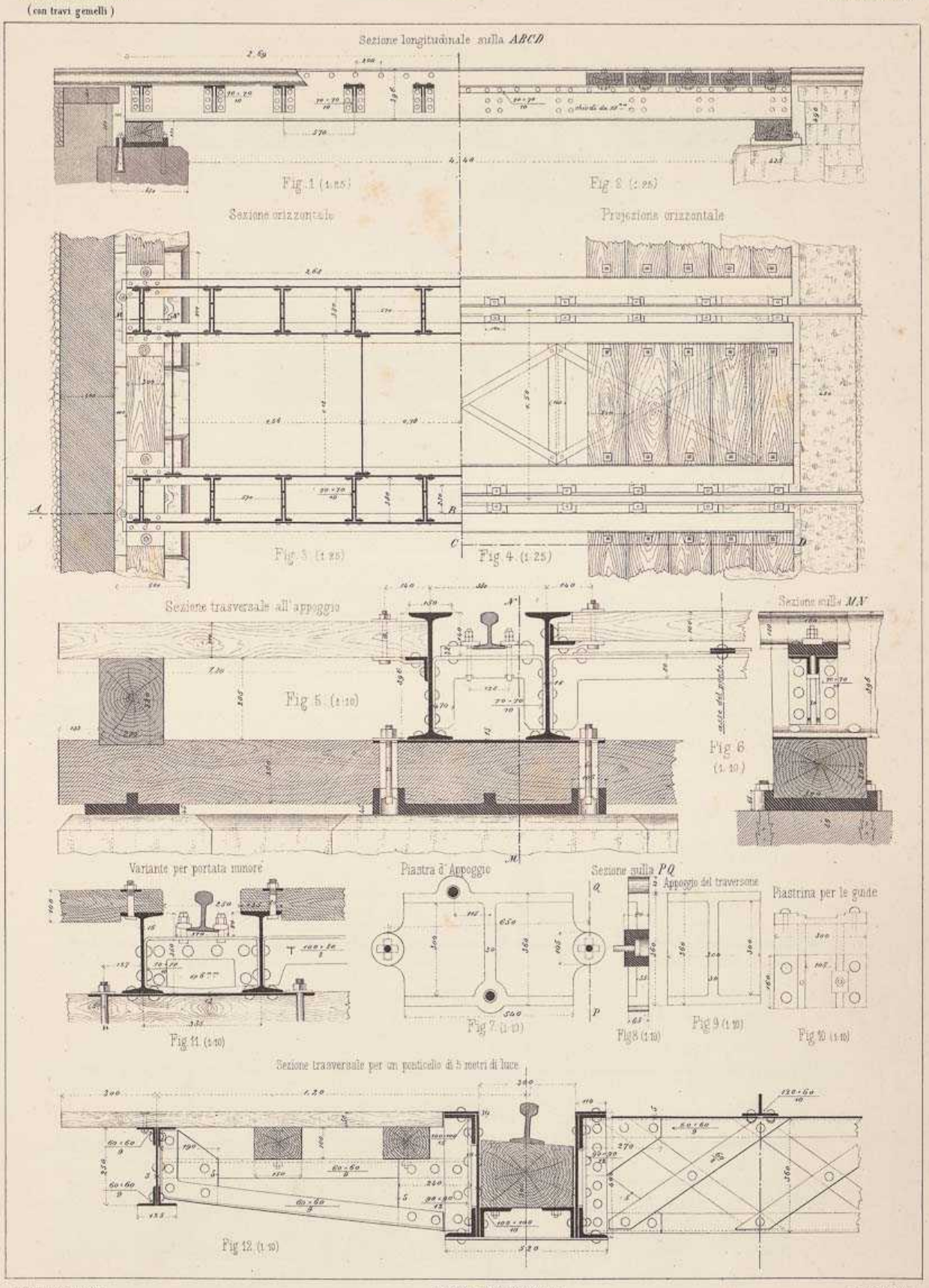
CHICCHI - PONTI METALLICI

C. STROBL INC.

PONTI A TRAVATA RETTILINEA

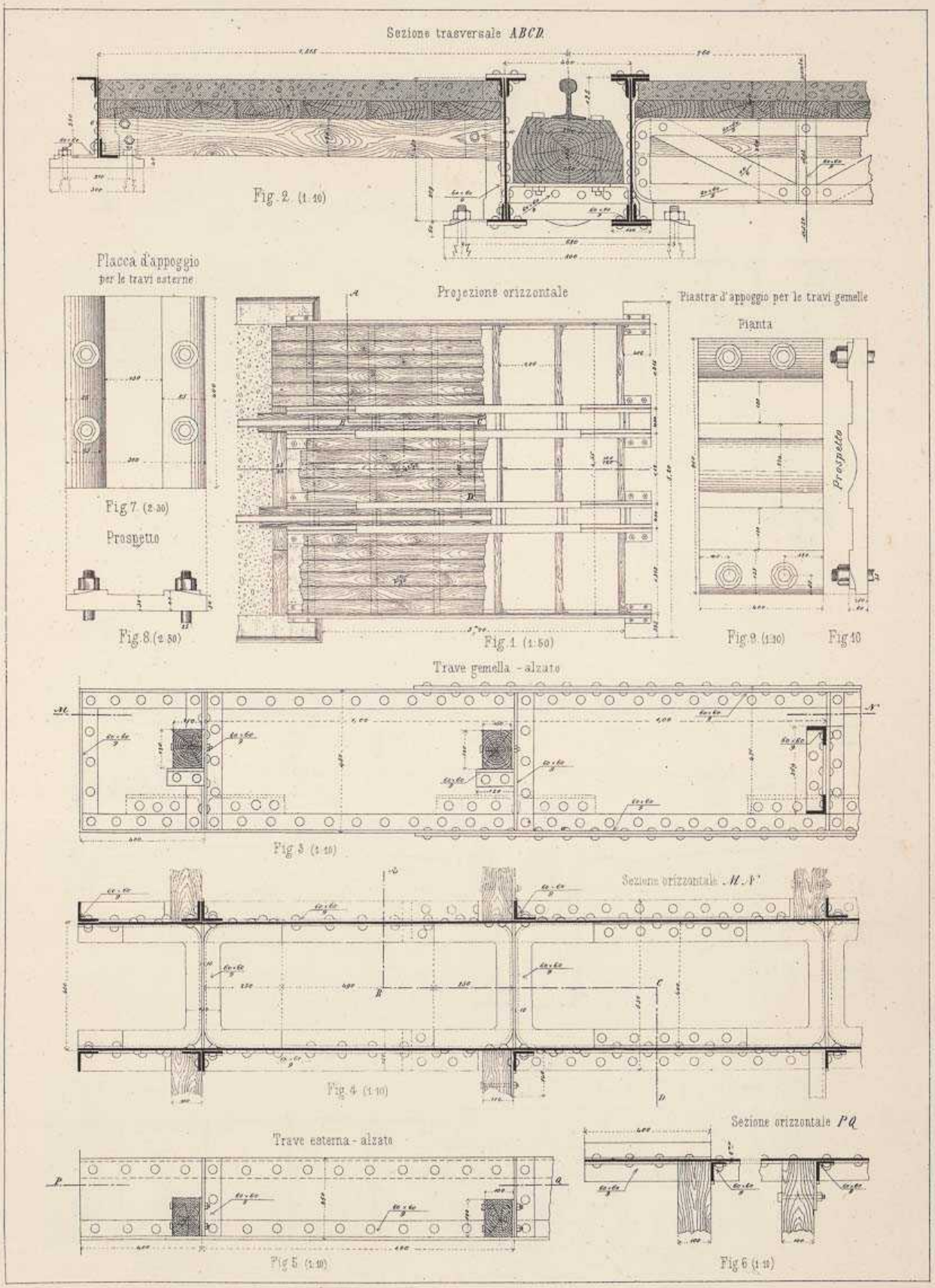
PICCOLA PORTATA
(con travi gemelli)

PER FERROVIA



PONTI A TRAVATA RETTILINEA

PICCOLA PORTATA — PER FERROVIA



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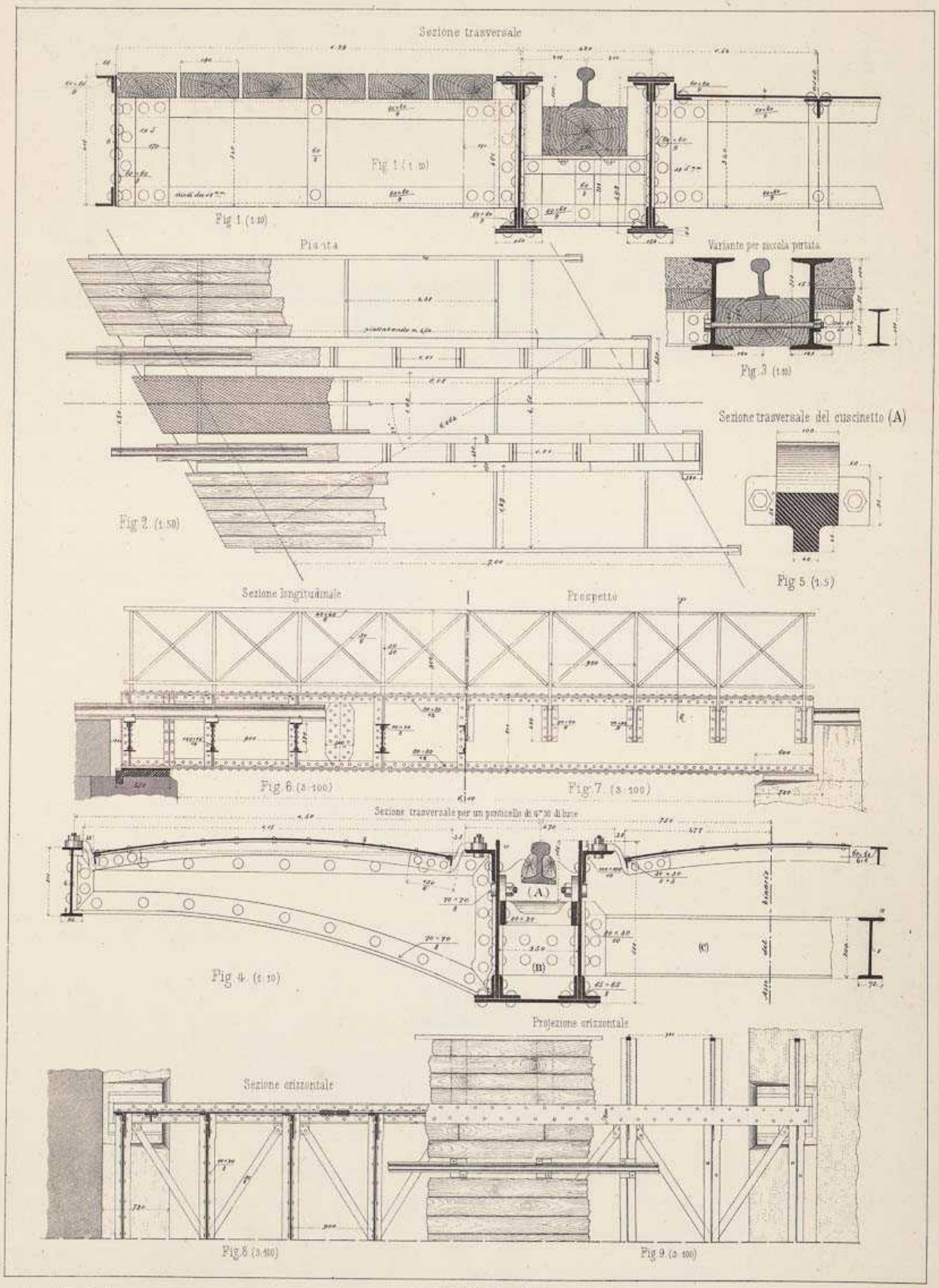
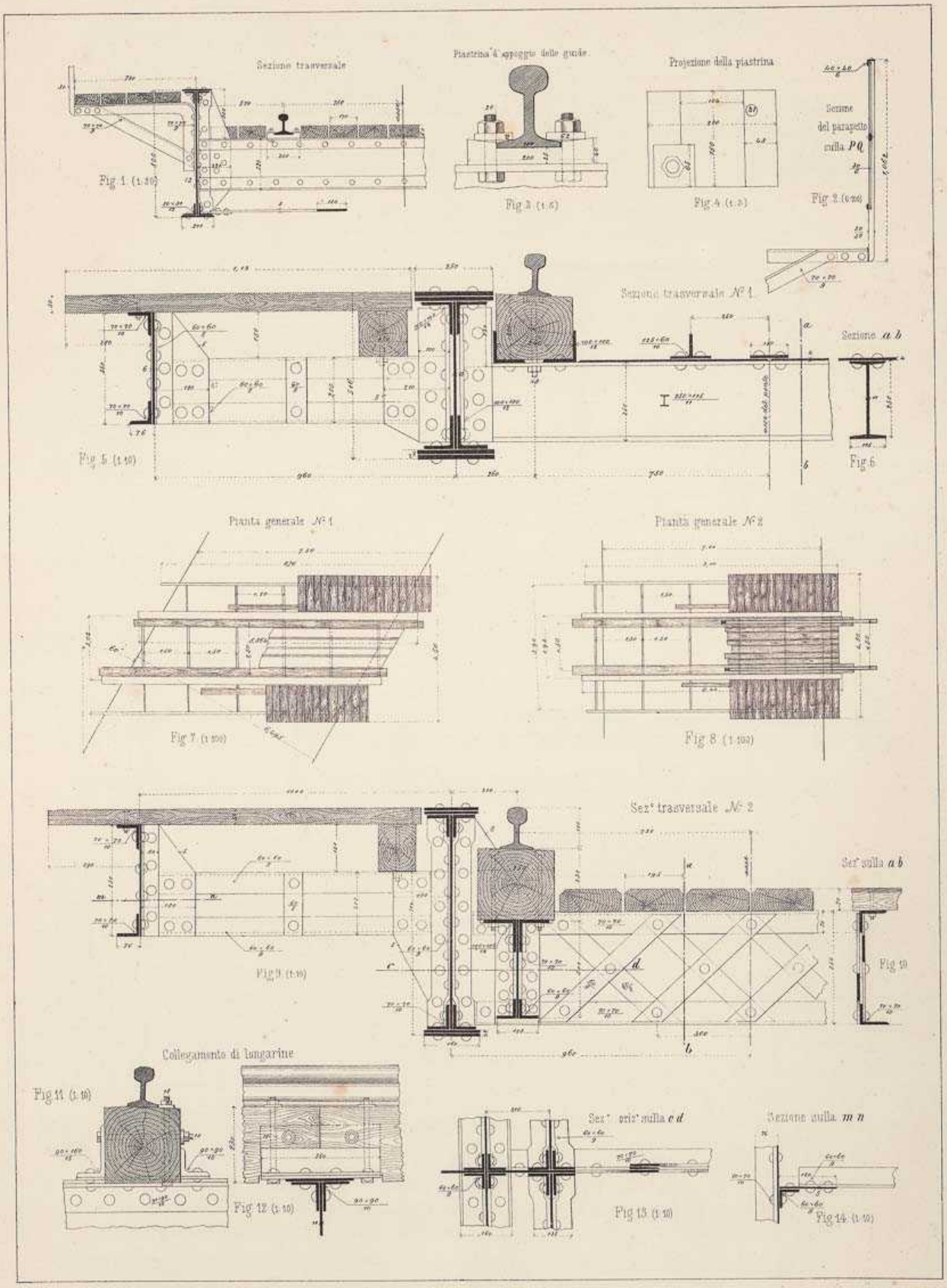
PICCOLA PORTATA — PER FERROVIA



PONTI A TRAVATA RETTILINEA

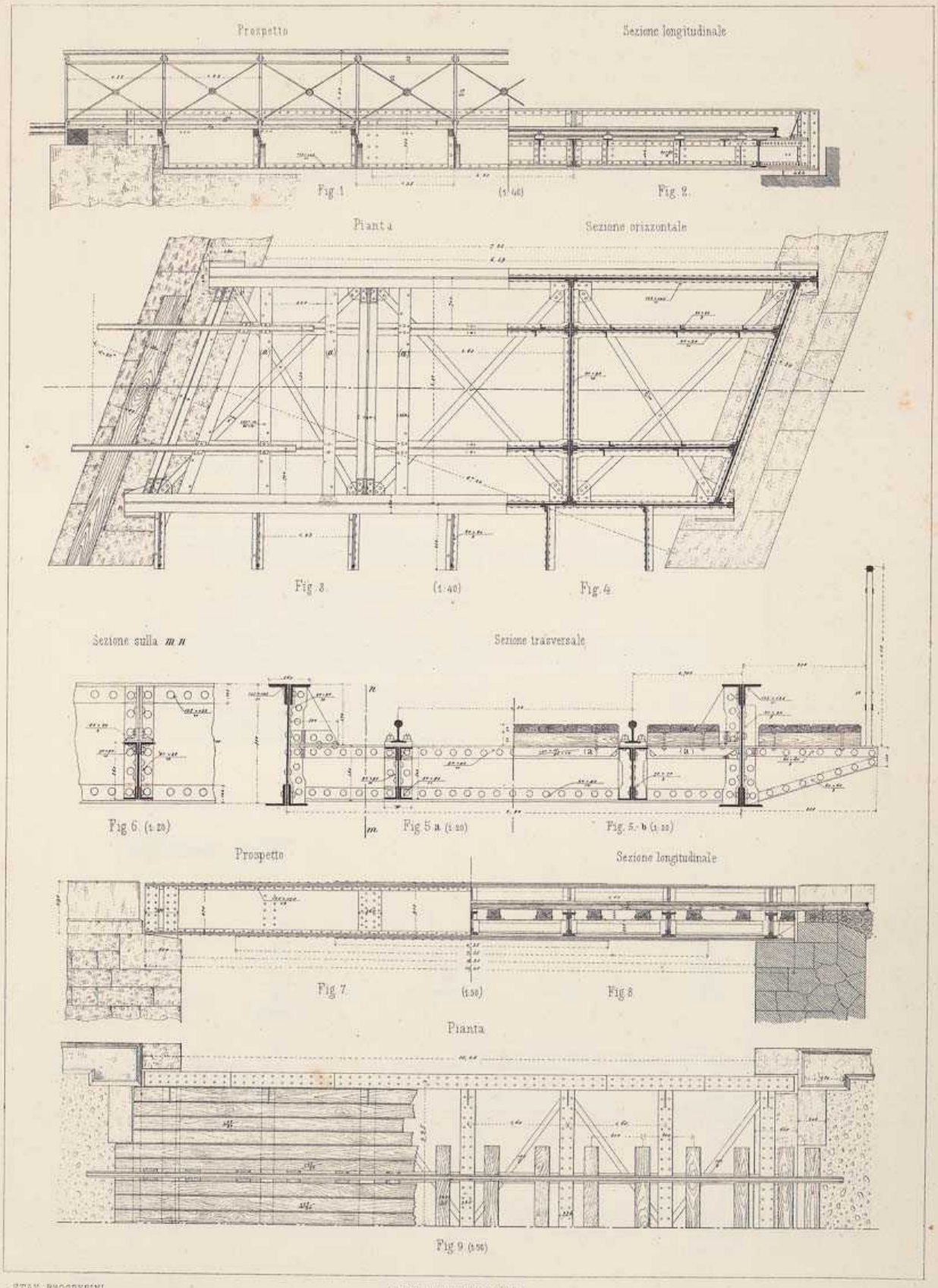
PICCOLA PORTATA — PER FERROVIA



STAB. PROSPERINI — CHICCHI - PONTI METALLICI — C. STROBEL INC.

PONTI A TRAVATA RETTILINEA

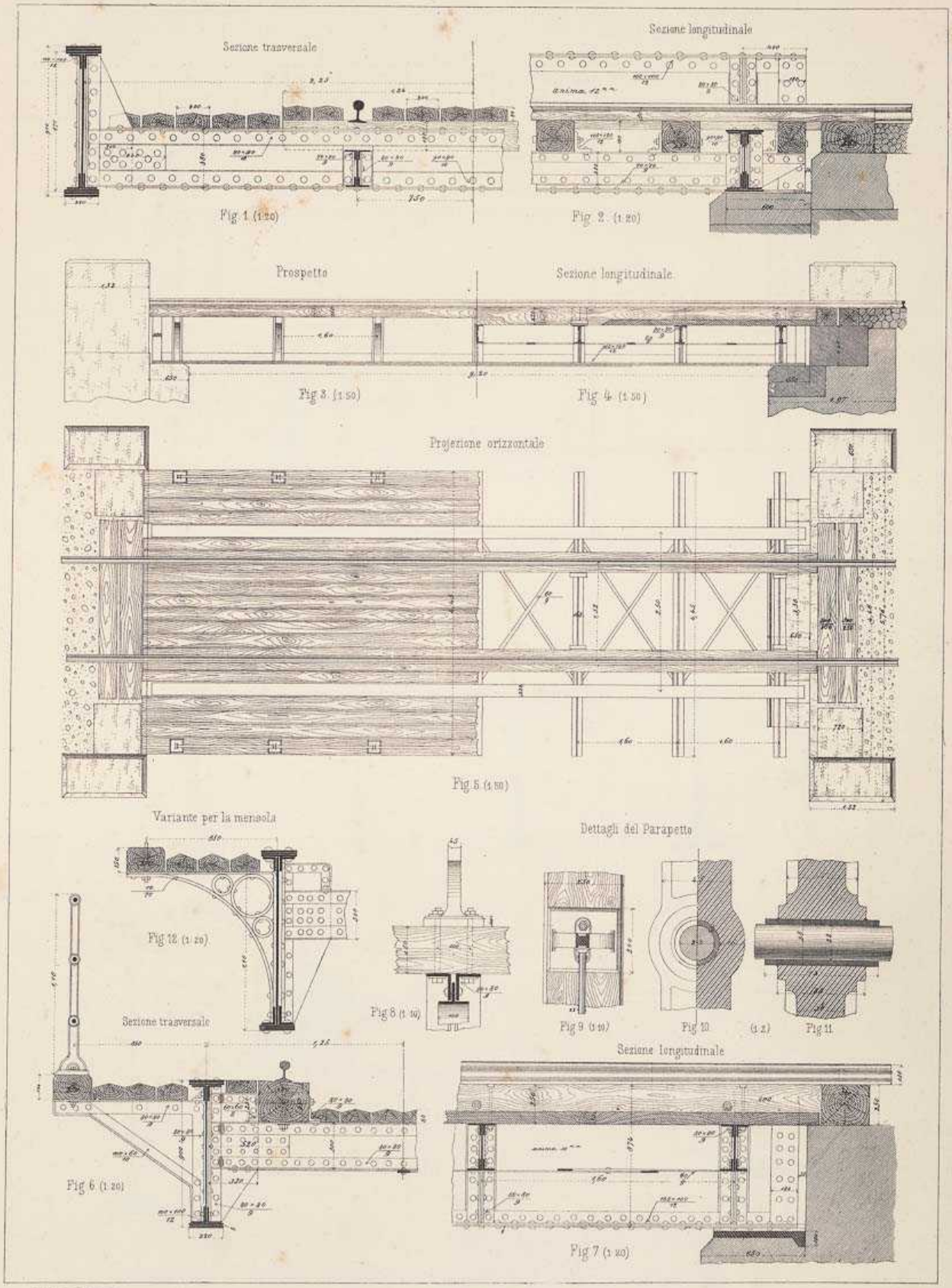
PICCOLA PORTATA — PER FERROVIA



STAB. PROSPERINI — CHICCHI - PONTI METALLICI — G. STROBL INC.

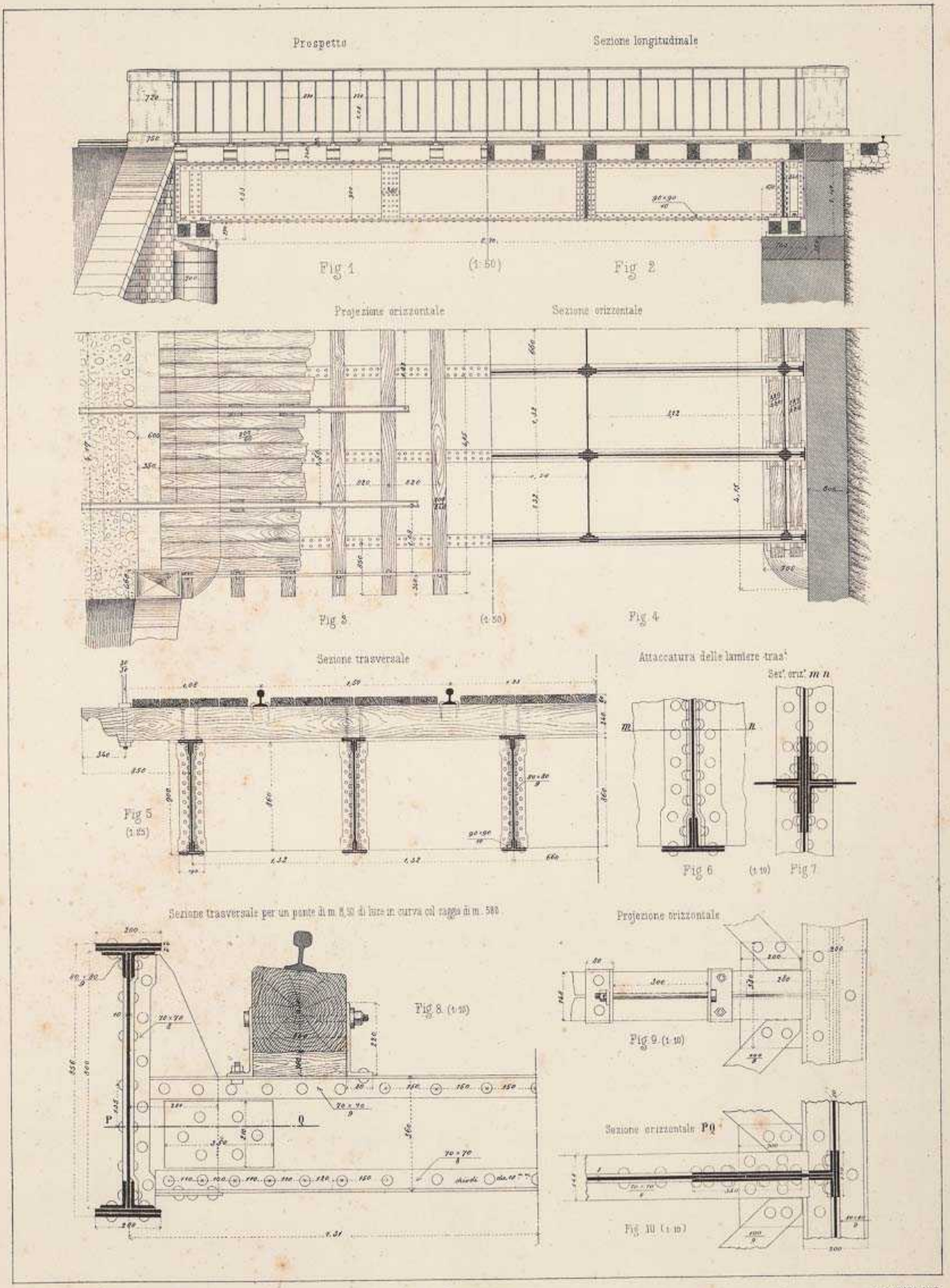
PONTI A TRAVATA RETTILINEA

PICCOLA PORTATA — PER FERROVIA



PONTI A TRAVATA RETTILINEA

PICCOLA PORTATA — PER FERROVIA

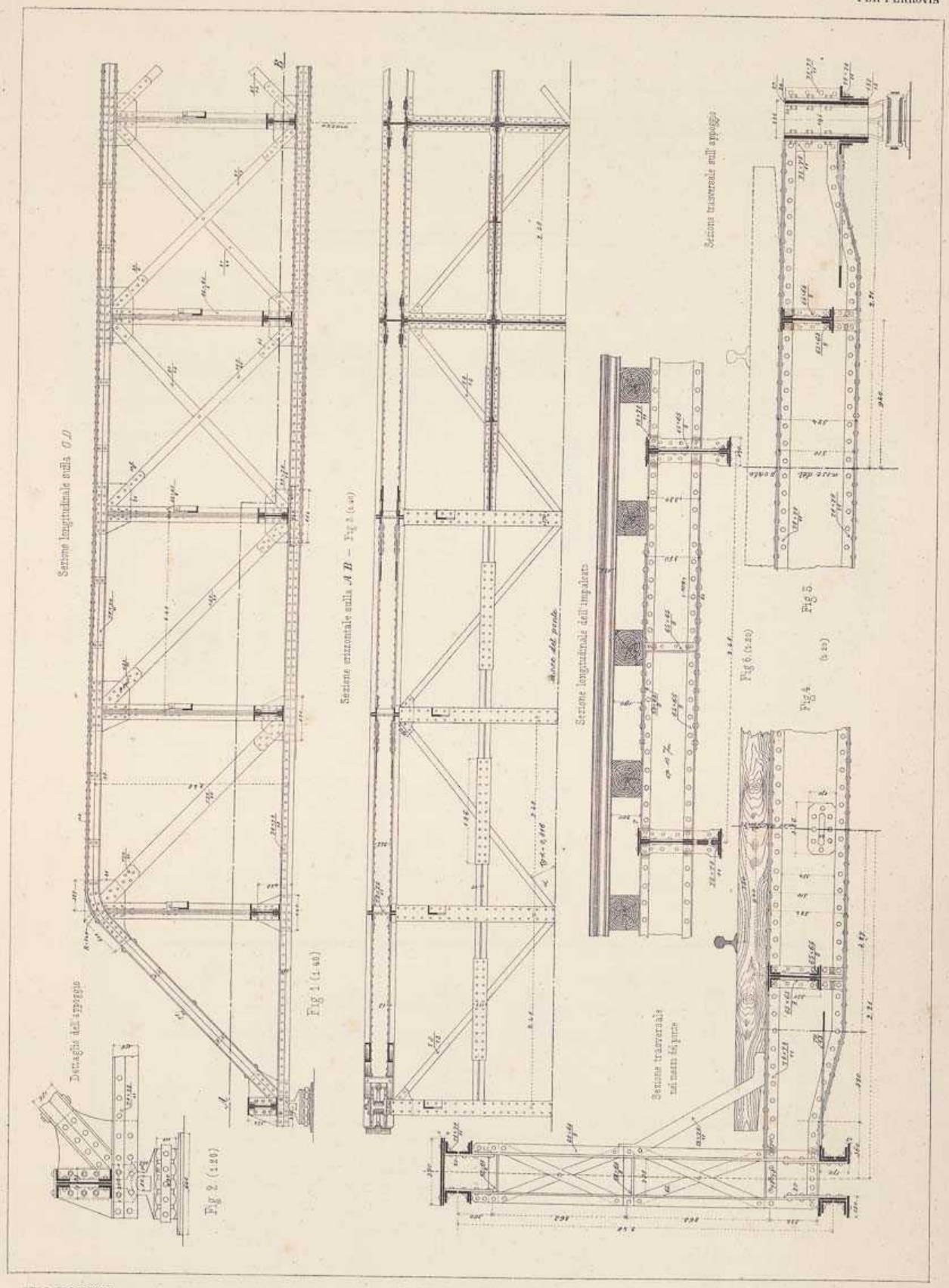


PONTI A TRAVATA RETTILINEA

Ponte sul Lippe con tre campate di m. 48.58 di luce (Ferrovia Venlo-Amburgo)

GRANDE PORTATA

PER FERROVIA



STAB. PROSPERINI

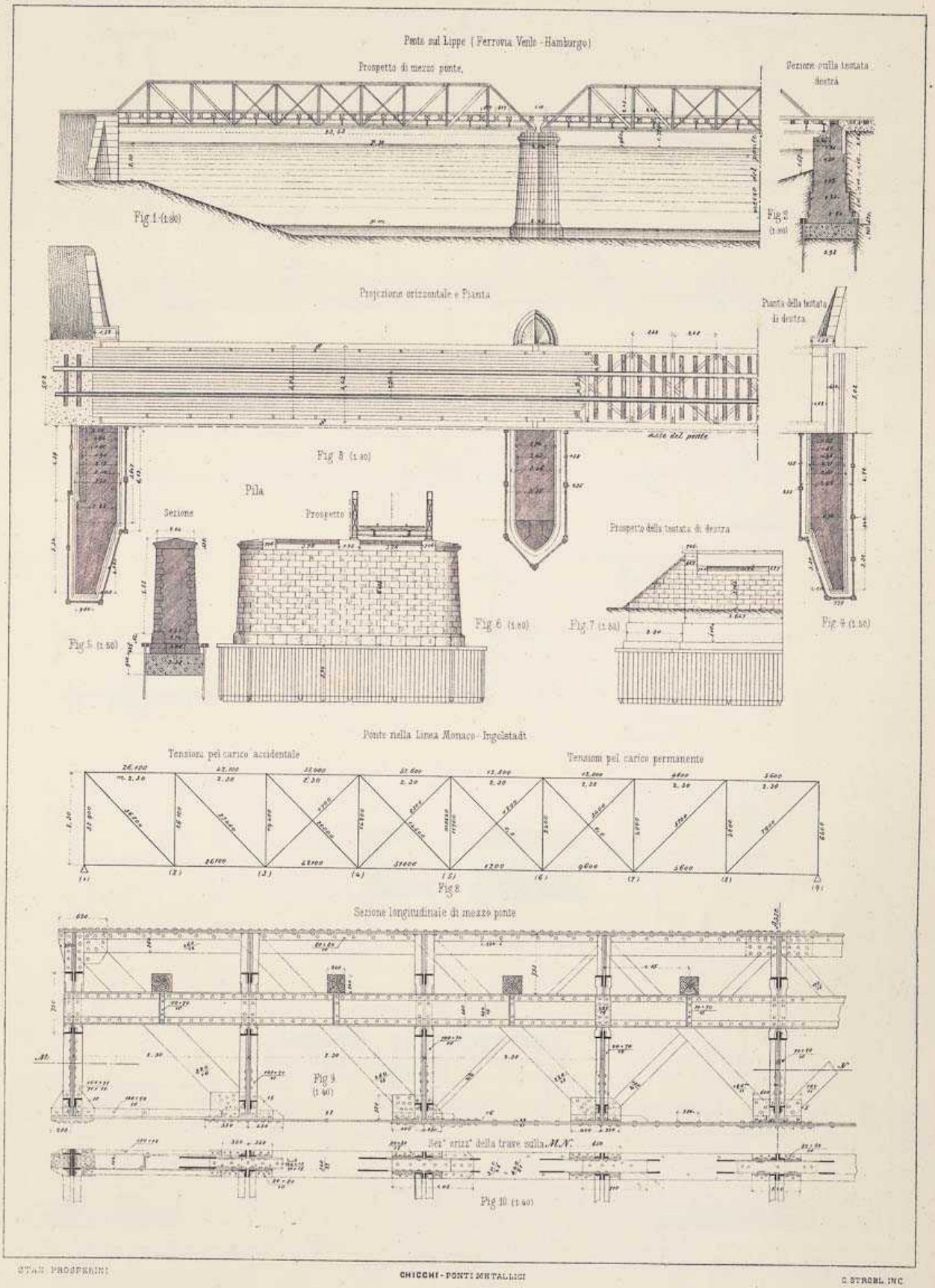
CHIGGNI - PONTI METALLICI

C. STROBL INC.

PONTI A TRAVATA RETTILINEA

GRANDE PORTATA

PER FERROVIA



STAB. PROSPERINI

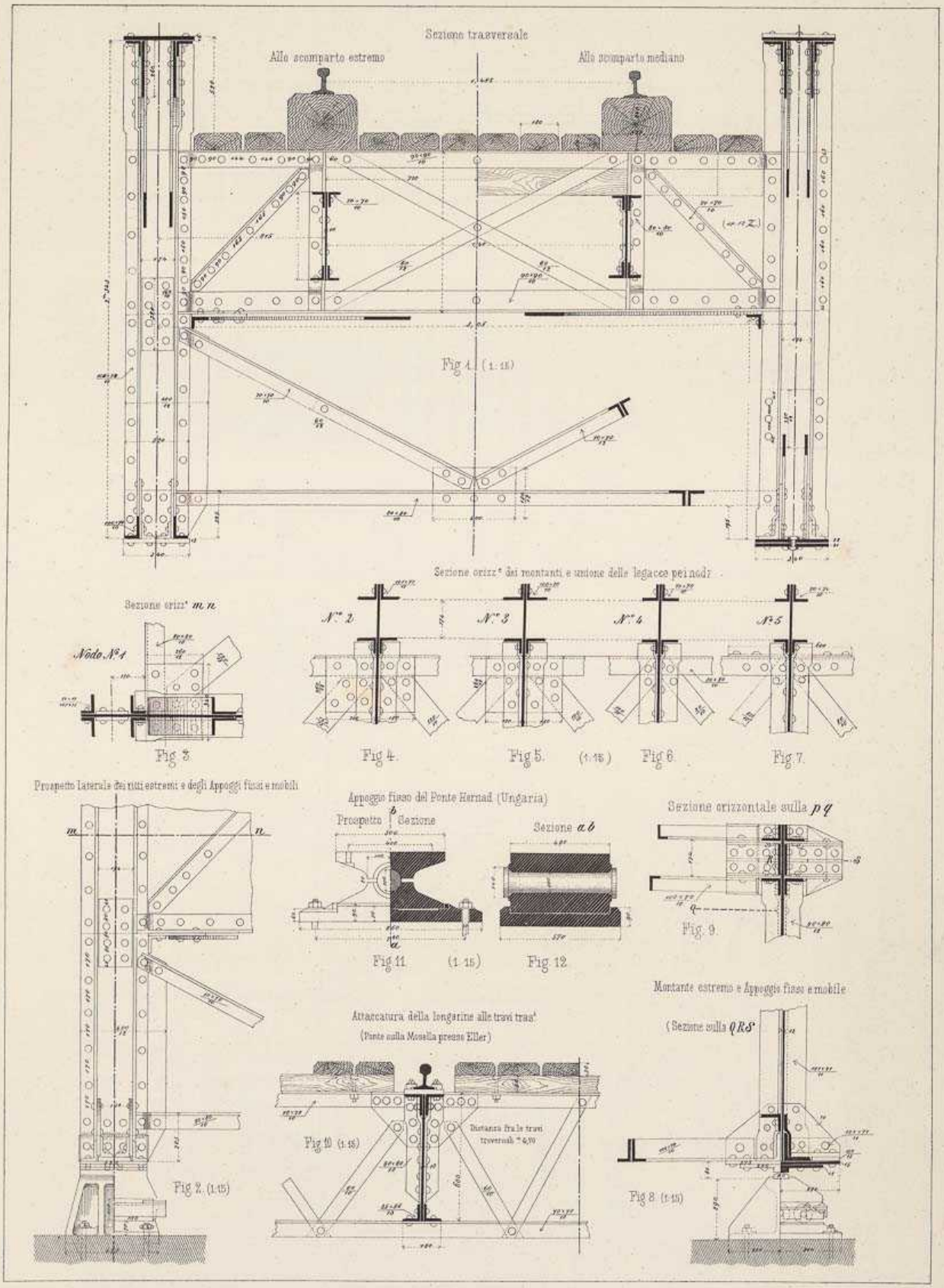
CHICCHI - PONTI METALLICI

C. STROBEL INC.

PONTI A TRAVATA RETTILINEA

(Ponte sulla Linea Monaco-Ingolstadt)

GRANDE PORTATA — PER FERROVIA



PONTI A TRAVATA RETTILINEA

GRANDE PORTATA — PER FERROVIA

Ponte sulla Saale presso Bernburg (in 4 travate indipendenti)

Dettagli di una travata

Prospetto longitudinale

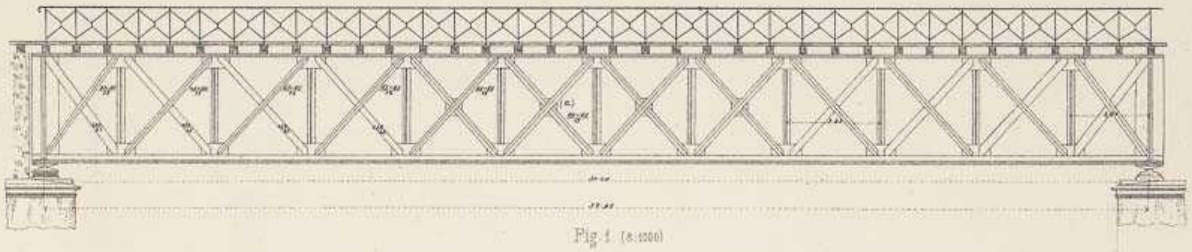


Fig. 1. (1:1000)

Projezione orizzontale

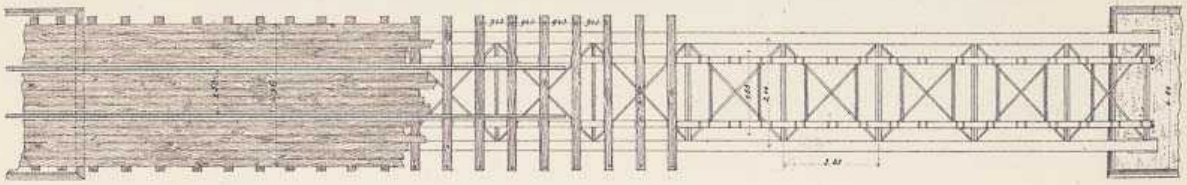


Fig. 2 (1:1000)

Dettaglio del prospetto agli appoggi

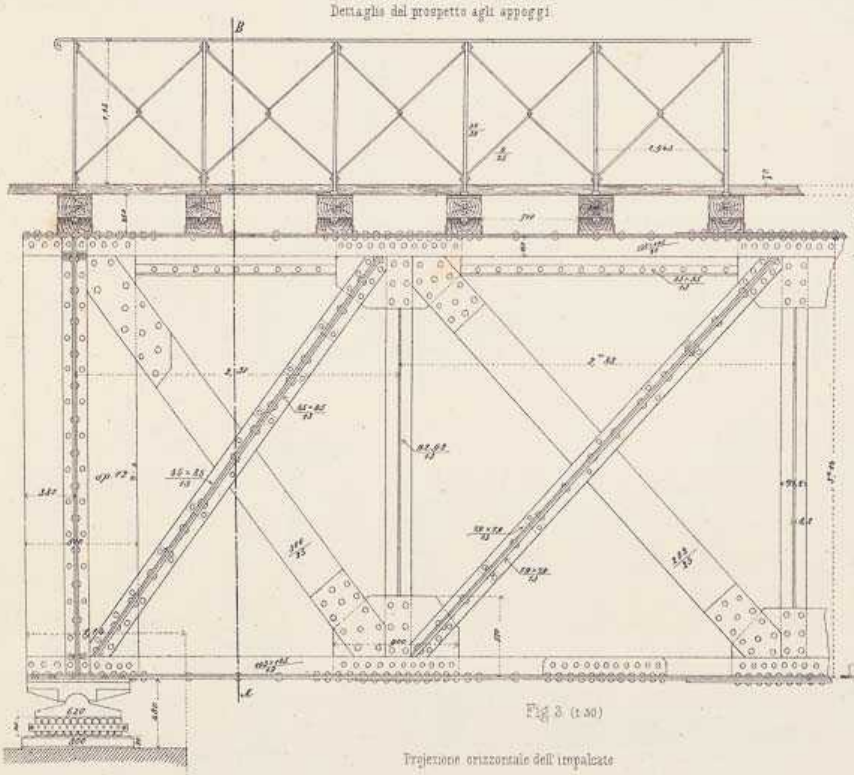


Fig. 3 (1:30)

Sezione trasversale A B

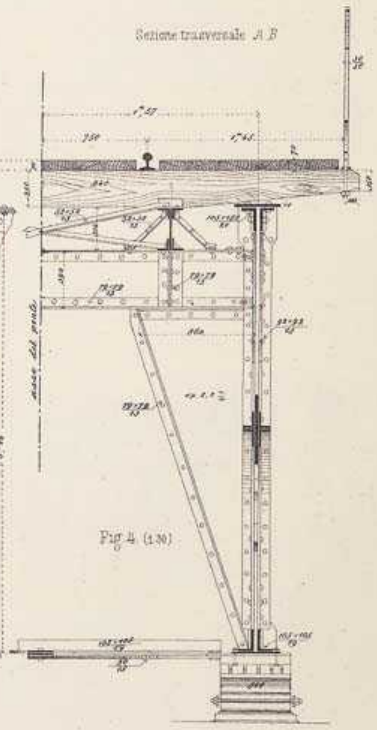


Fig. 4 (1:30)

Projezione orizzontale dell'impalcato

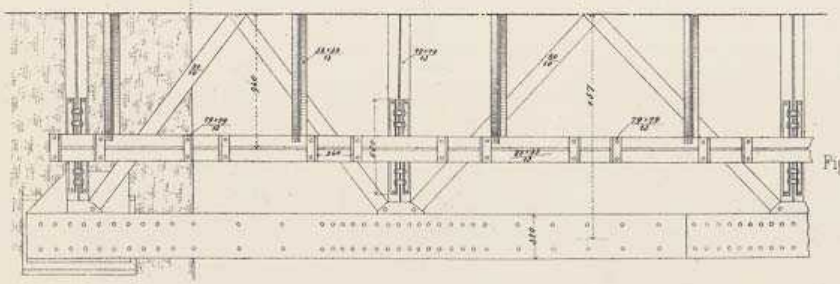


Fig. 5 (1:30)

(a) Collegamento delle sbarre negli scompartì centrali

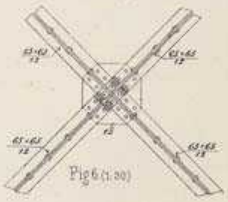
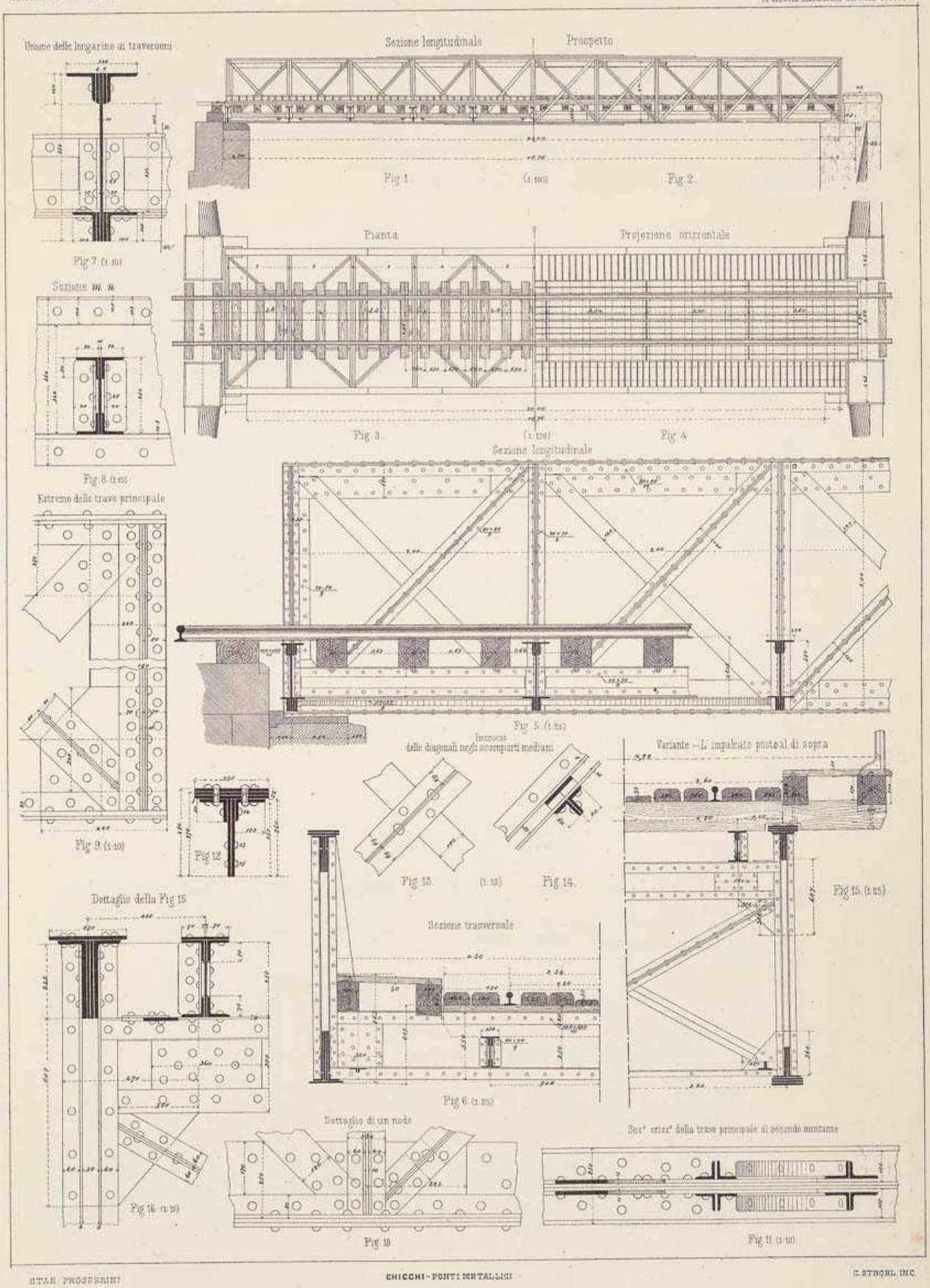


Fig. 6 (1:30)

PONTI A TRAVATA RETTILINEA

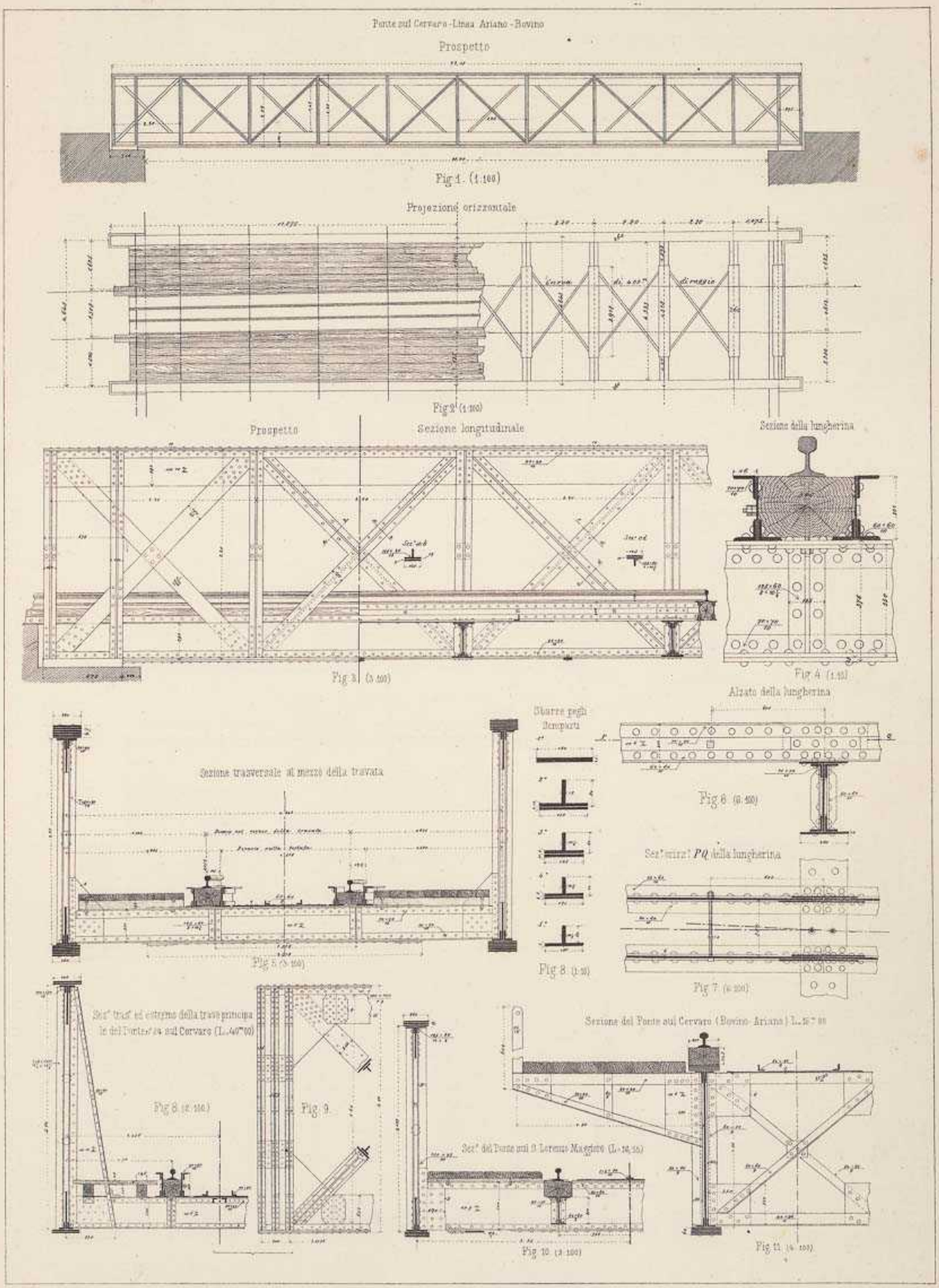
GRANDE PORTATA

PER FERROVIA
(Ferrovie Austriache del Nord-Ovest.)



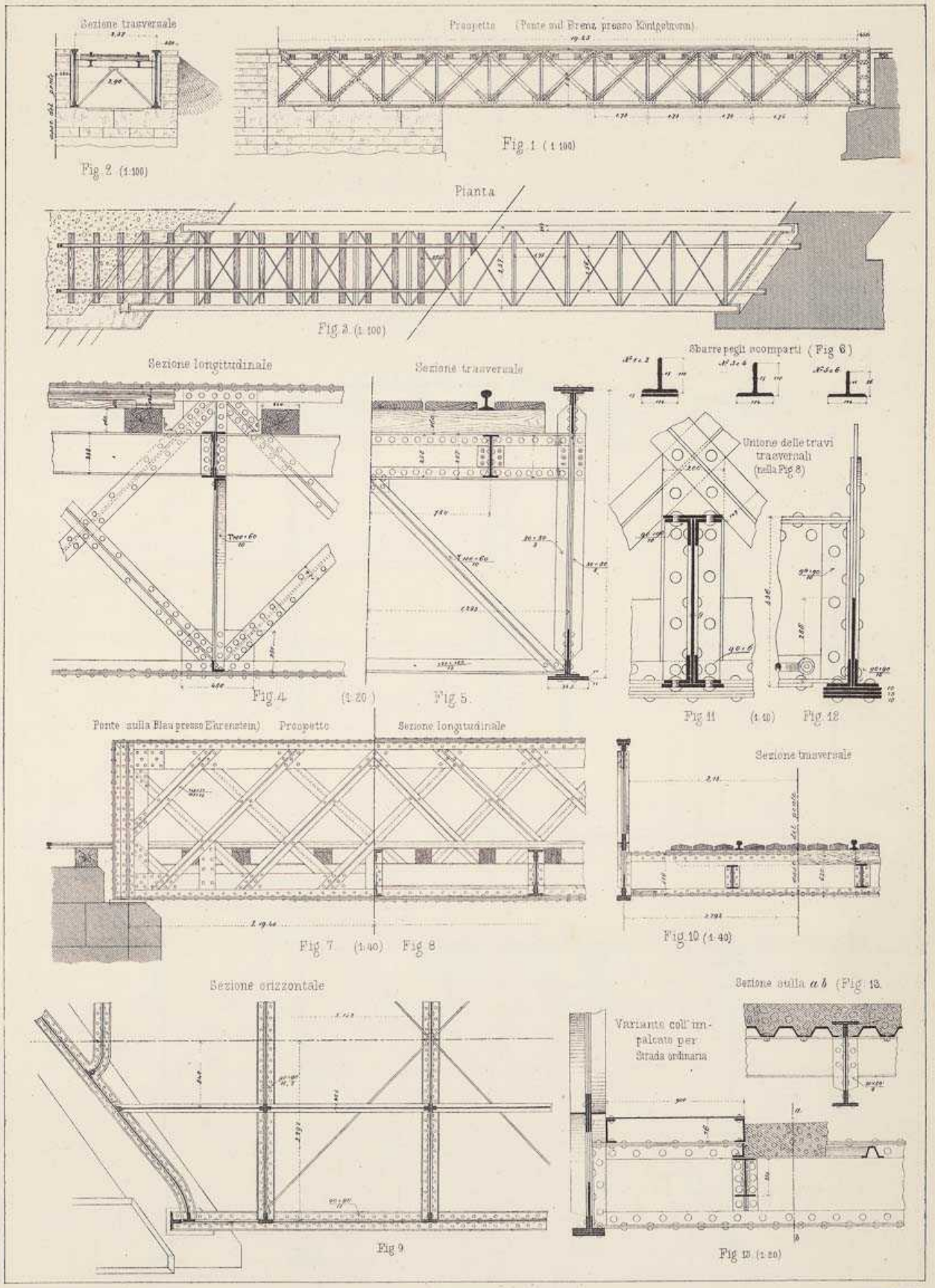
PONTI A TRAVATA RETTILINEA

GRANDE PORTATA — PER FERROVIA



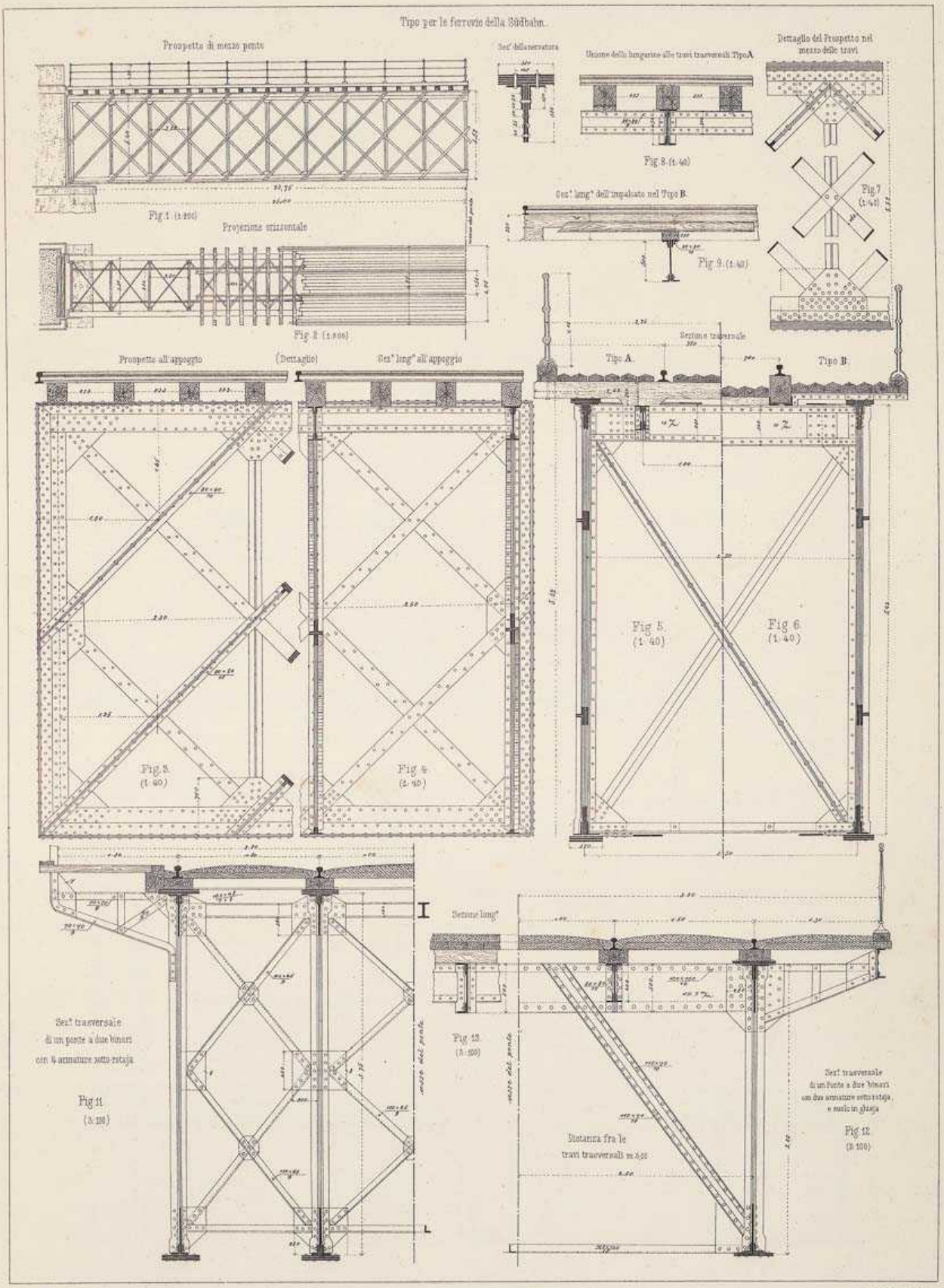
PONTI A TRAVATA RETTILINEA

GRANDE PORTATA — PER FERROVIA



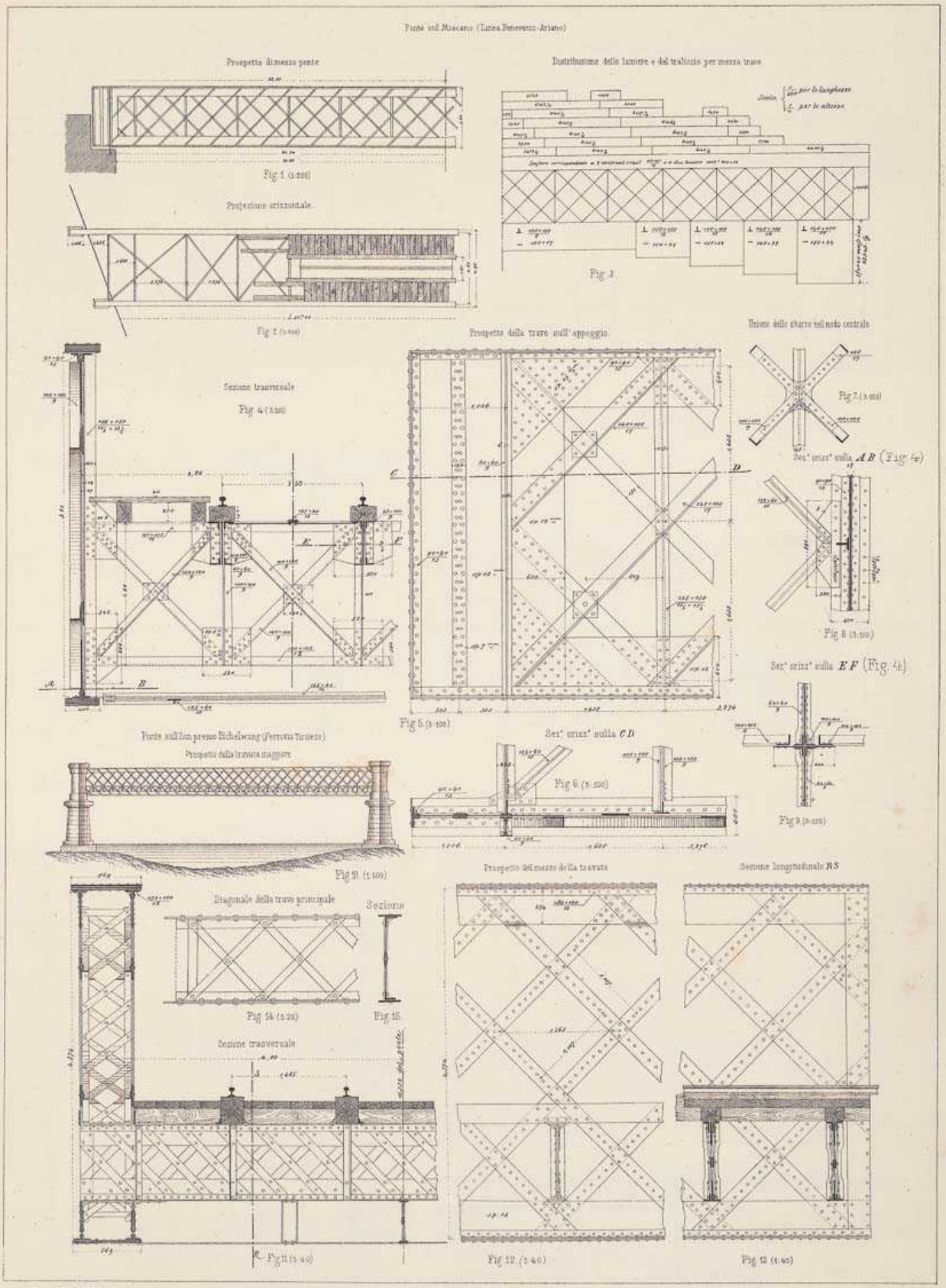
PONTI A TRAVATA RETTILINEA

GRANDE PORTATA — PER FERROVIA



PONTI A TRAVATA RETTILINEA

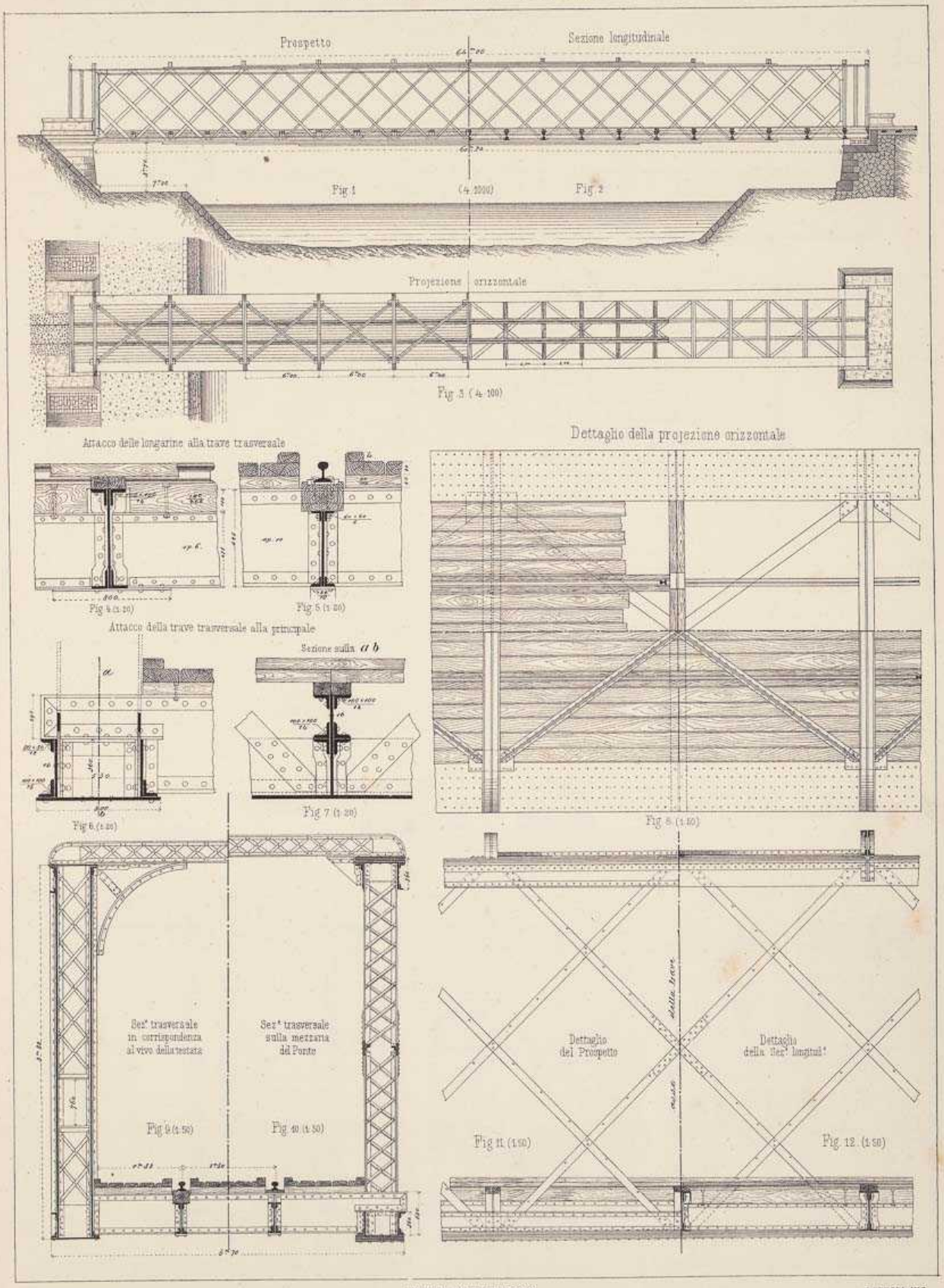
GRANDE PORTATA — PER FERROVIA



PONTI A TRAVATA RETTILINEA

GRANDE PORTATA — PER FERROVIA

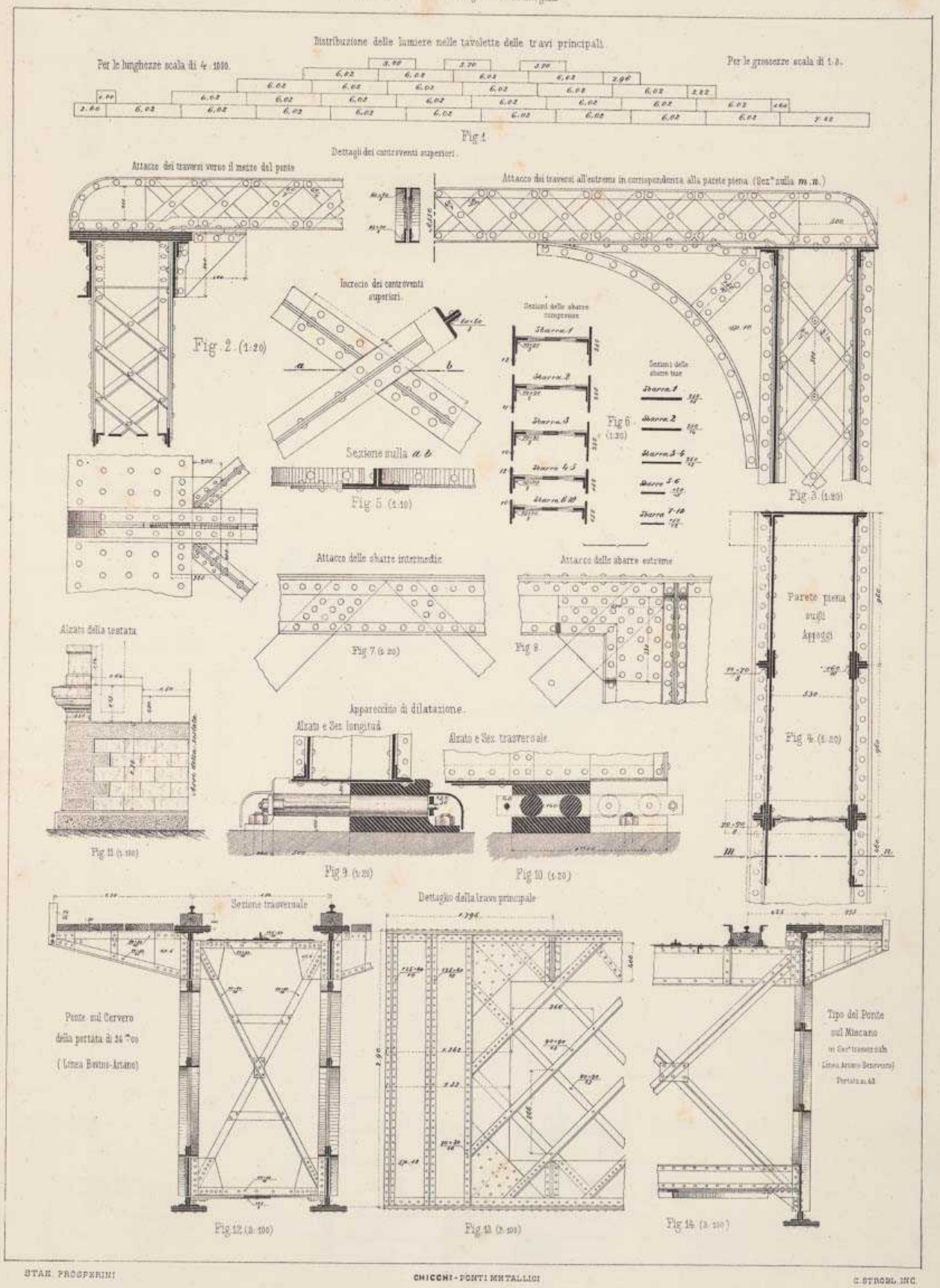
Ponte sul Bacchiglione a Brusegana (Linea Padova-Rovigo)



PONTI A TRAVATA RETTILINEA

GRANDE PORTATA — PER FERROVIA

Dettagli del Ponte sul Bacchiglione a Brusegana

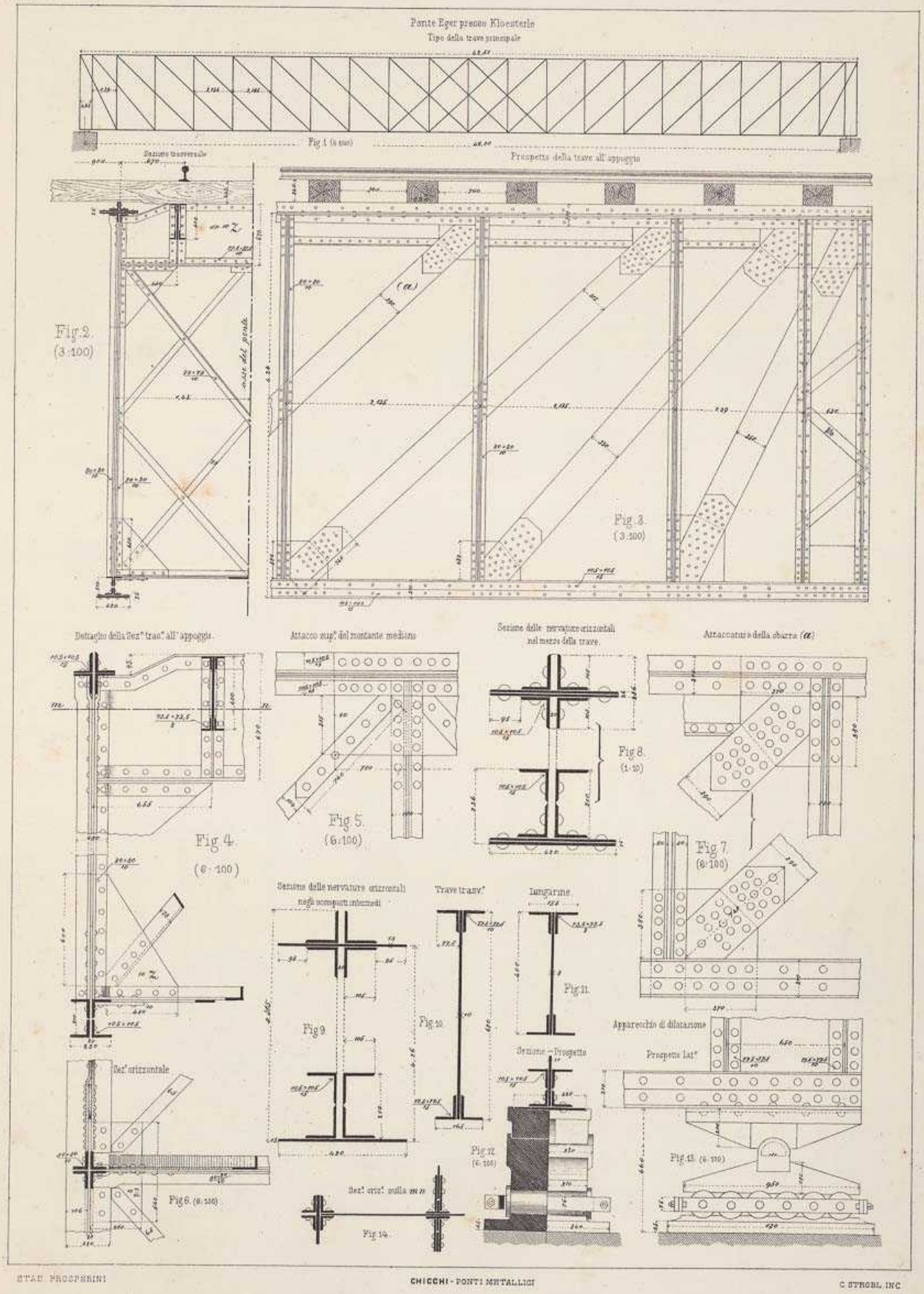


STAB. PROSPERINI — CHICCHI - PONTI METALLICI — C. STROBEL INC.

PONTI A TRAVATA RETTILINEA

GRANDE PORTATA

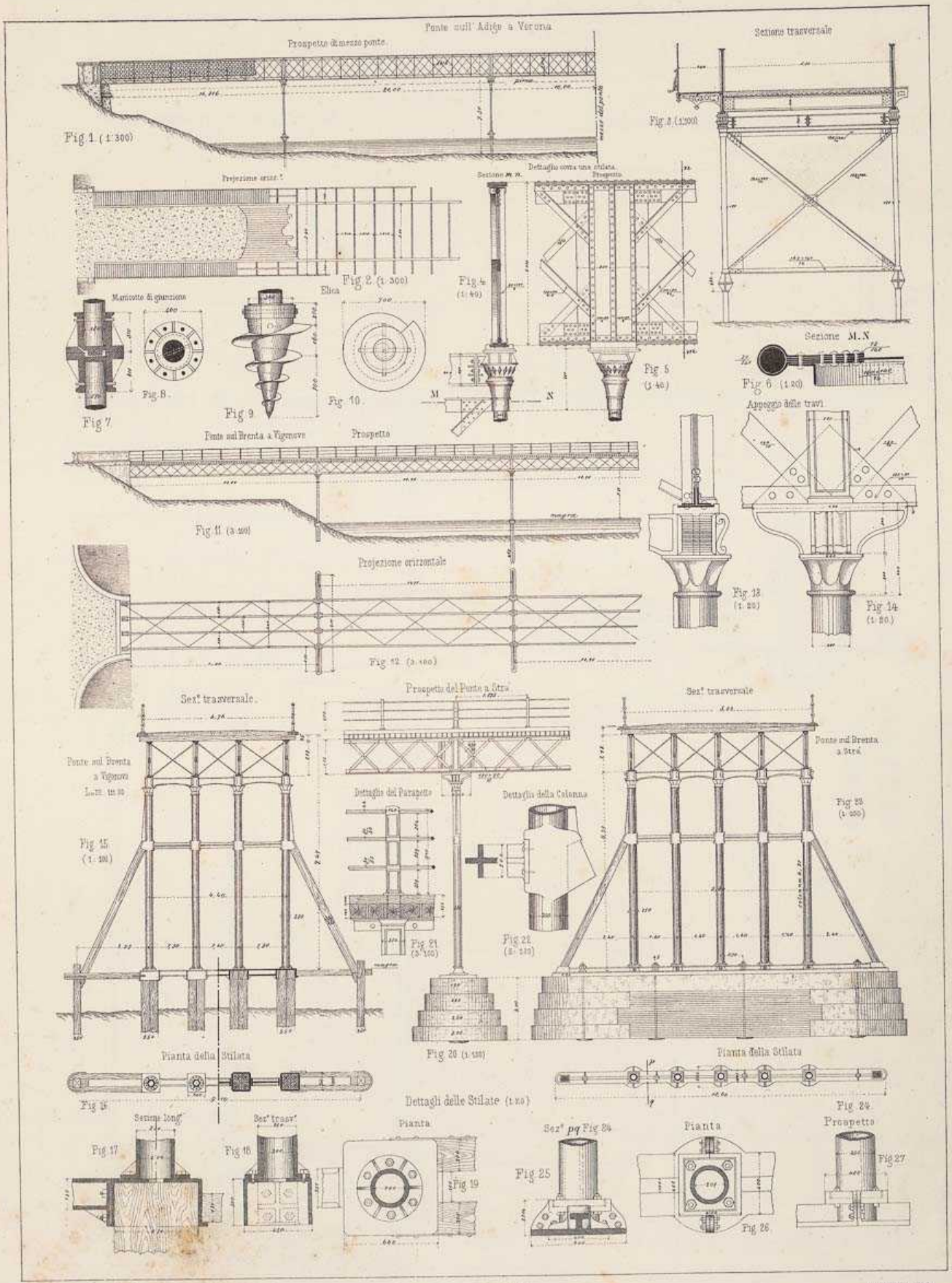
PER FERROVIA



PONTI A TRAVATA RETTILINEA

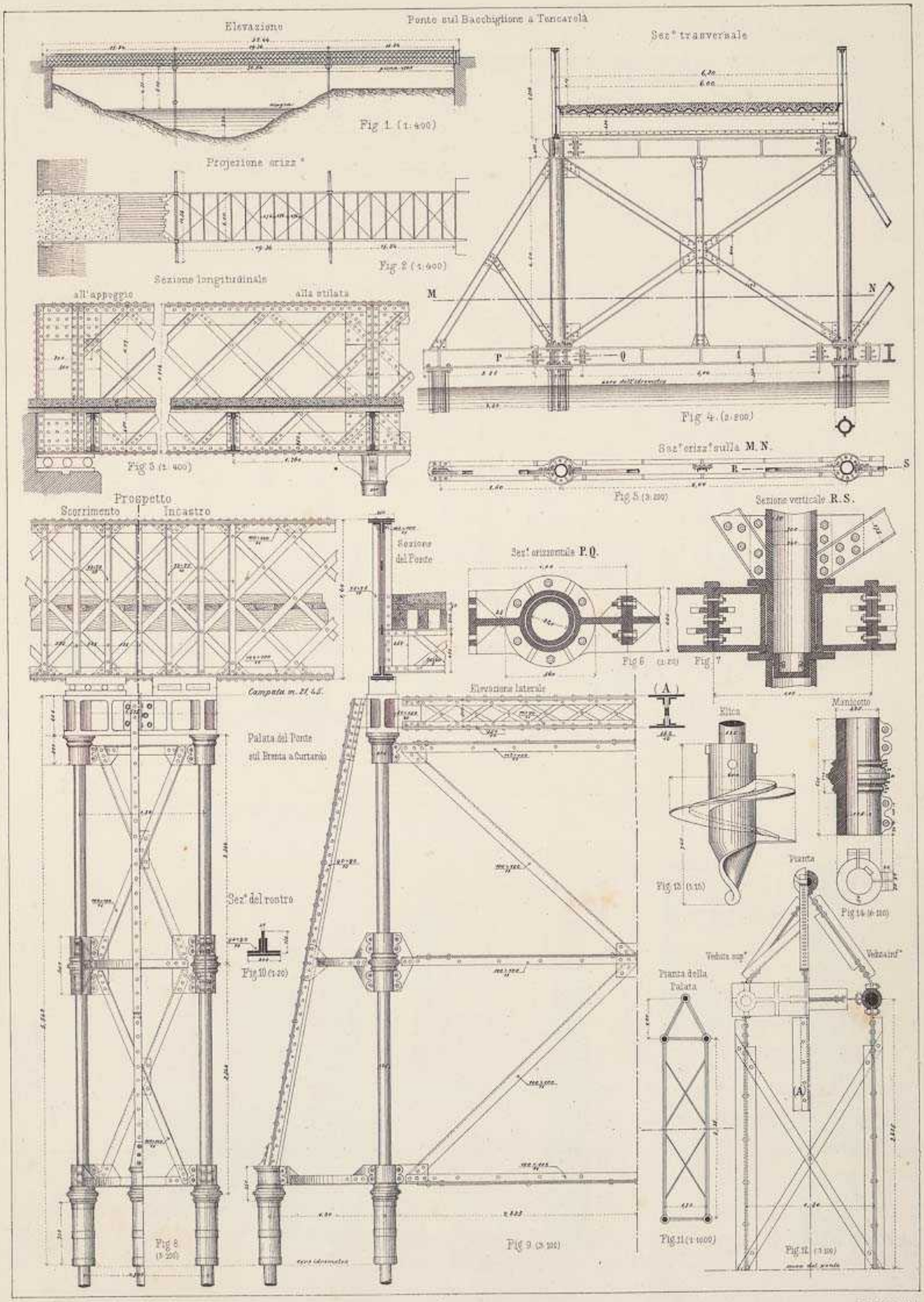
A PIU' CAMPATE

PER STRADA ORDINARIA



PONTI A TRAVATA RETTILINEA

A PIU' CAMPATE — PER STRADA ORDINARIA

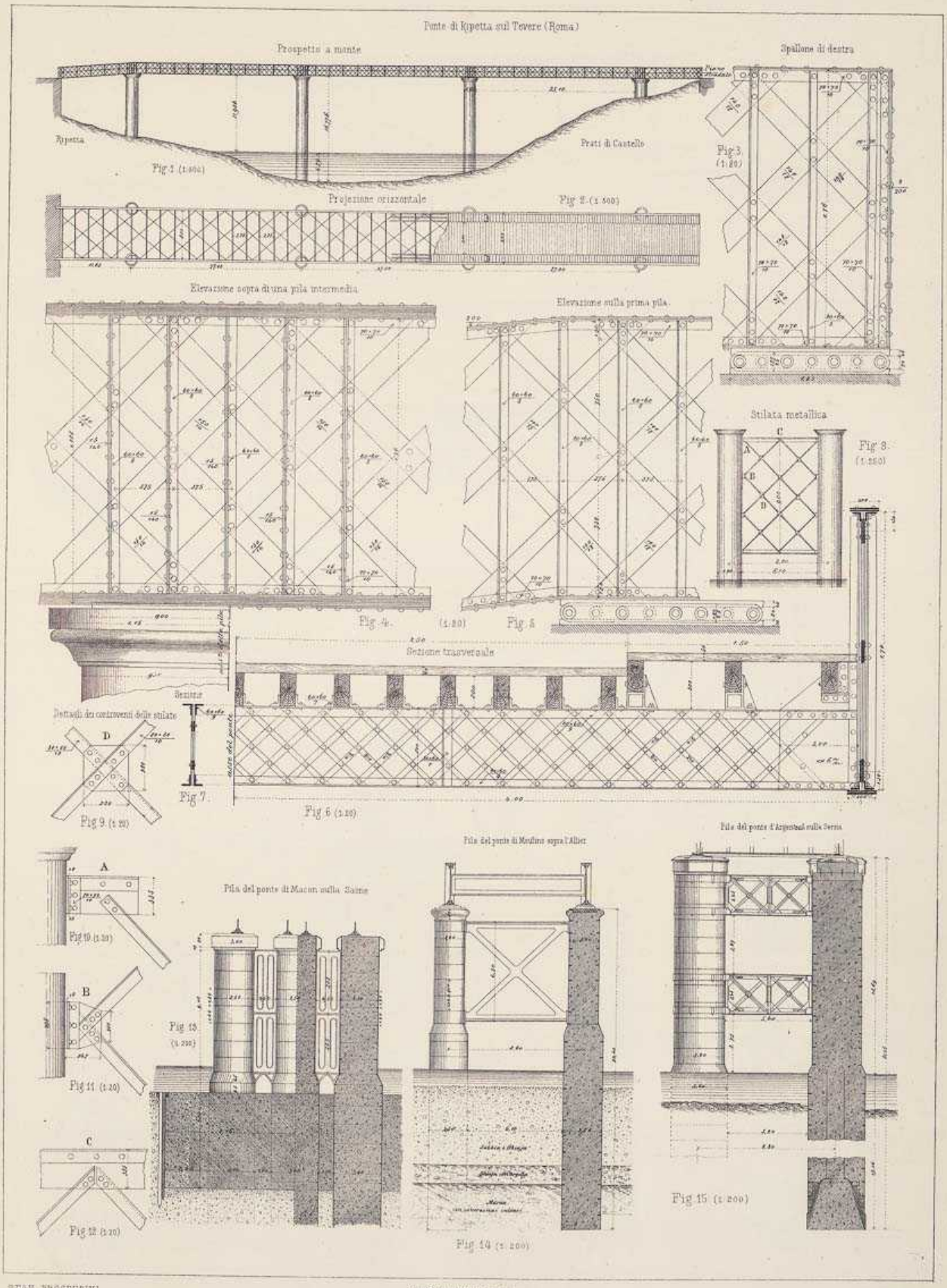


STAB. PROSPERINI — CHICCHI - PONTI METALLICI — G. STROBL, INC.

PONTI A TRAVATA RETTILINEA

A PIU' CAMPATE

PER STRADA ORDINARIA



STAB. PROSPERINI

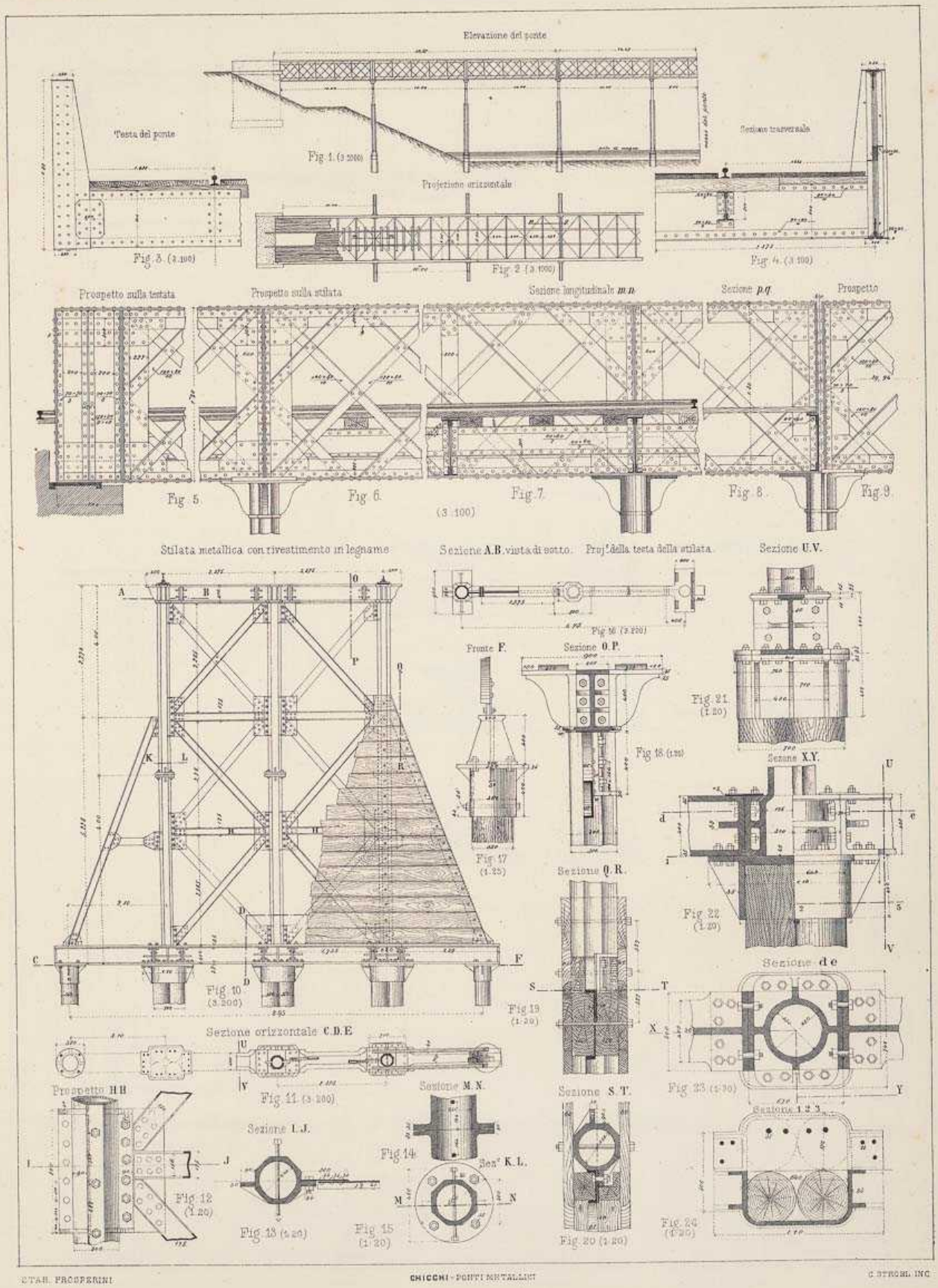
CHICCHI - PONTI METALLICI

C. STROBL INC.

PONTI A TRAVATA RETTILINEA

Ponte sul Brenta (Linea Padova-Bassano)

A PIU CAMPATE — PER FERROVIA



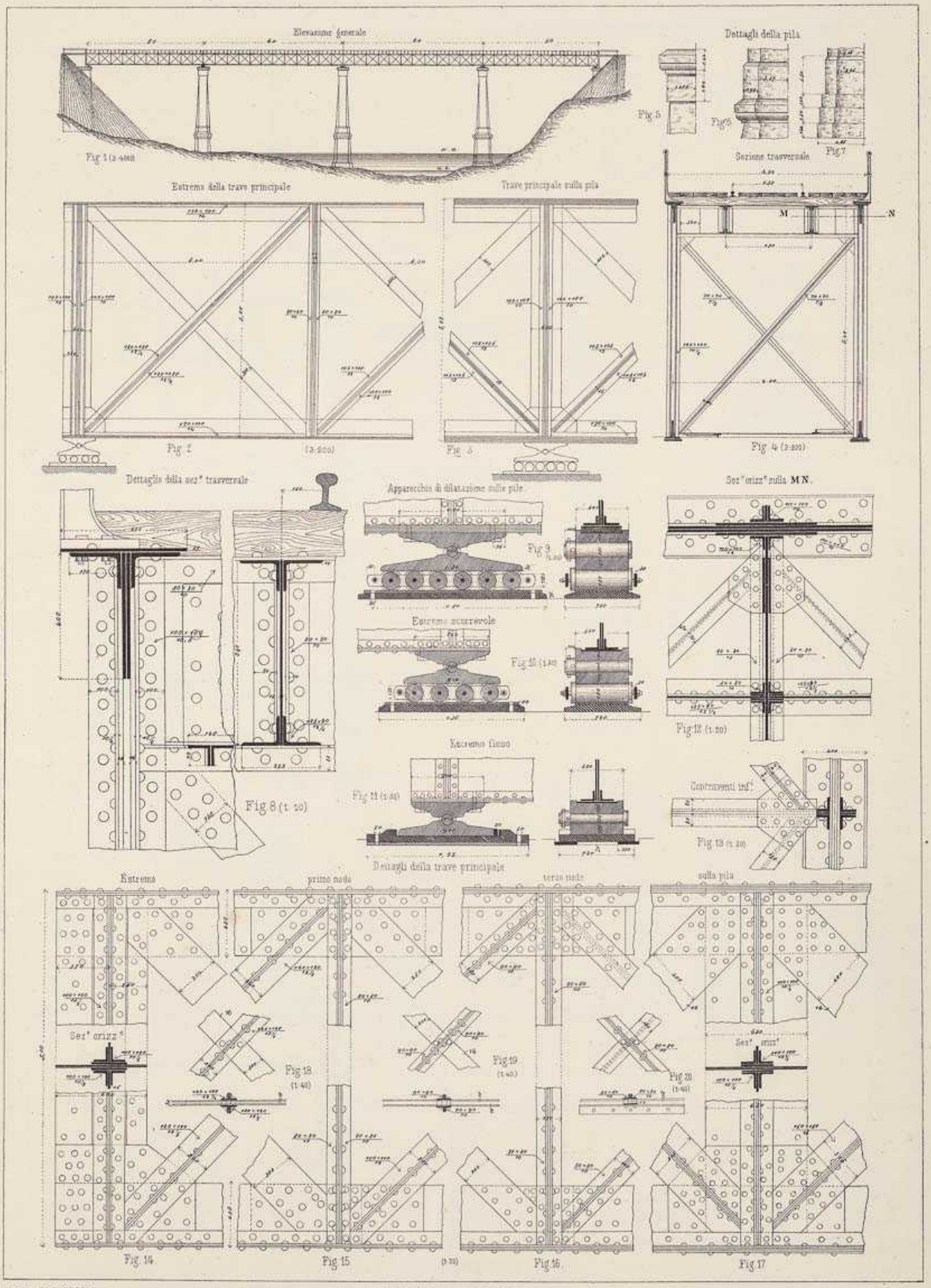
STAB. PROSPERINI — CHICCHI - PONTI METALLICI — G. STROBL INC.

PONTI A TRAVATA RETTILINEA

Ponte Thaya presso Znaim

A PIU' CAMPATE

PER FERROVIA



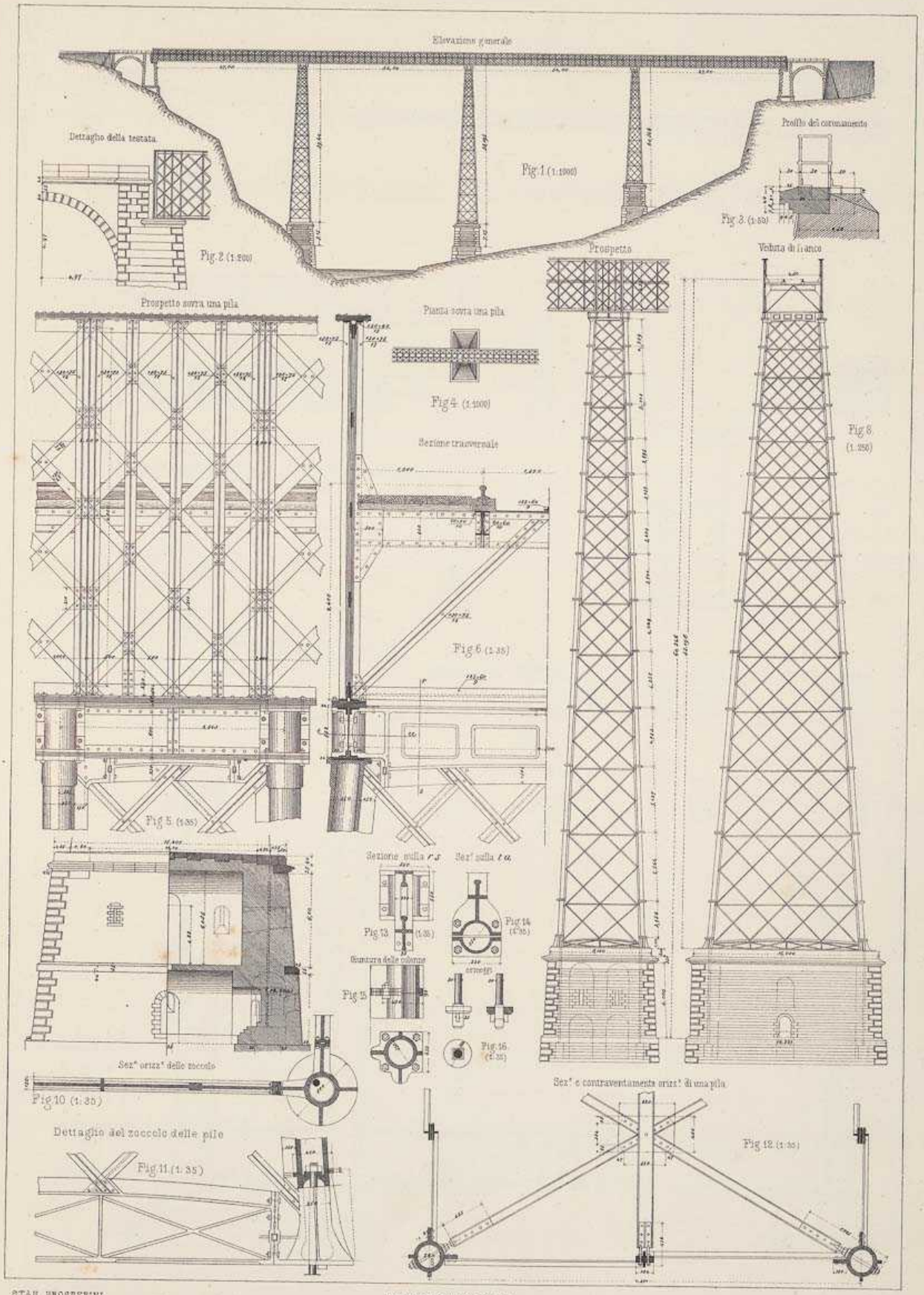
STAB. PROSPERINI

CHICCHI - PONTI METALLICI

C. STROBL, INC.

PONTI A TRAVATA RETTILINEA

A PIU CAMPATE — Viadotto sulla Gravina (Linea Bari - Taranto) — PER FERROVIA



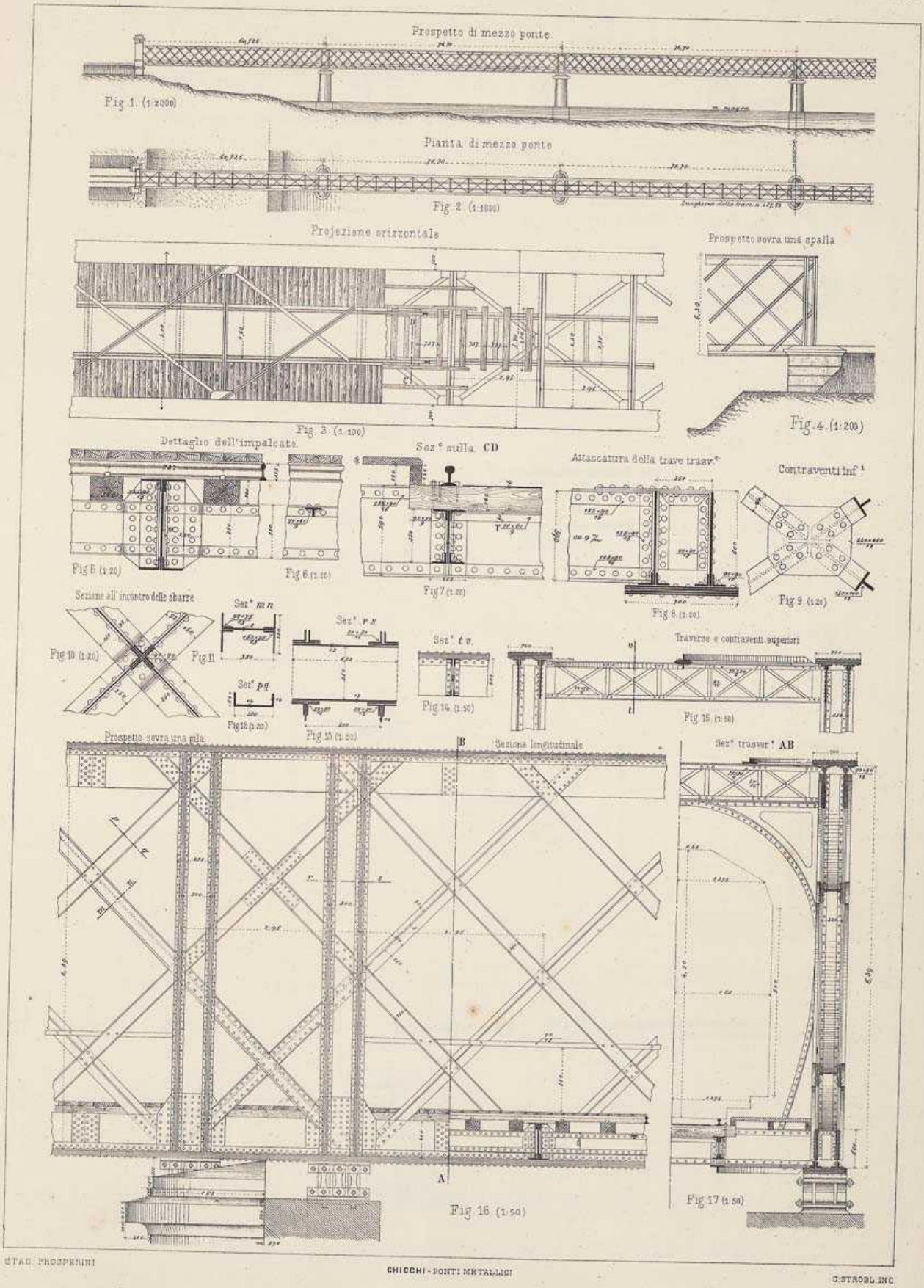
STAB. PROSPERINI — CHICCHI - PONTI METALLICI — C. STROBL INC.

A PIU' CAMPATE

PONTI A TRAVATA RETTILINEA

Ponte sul Po a Pontelagoscuro

PER FERROVIA



STAB. PROSPERINI

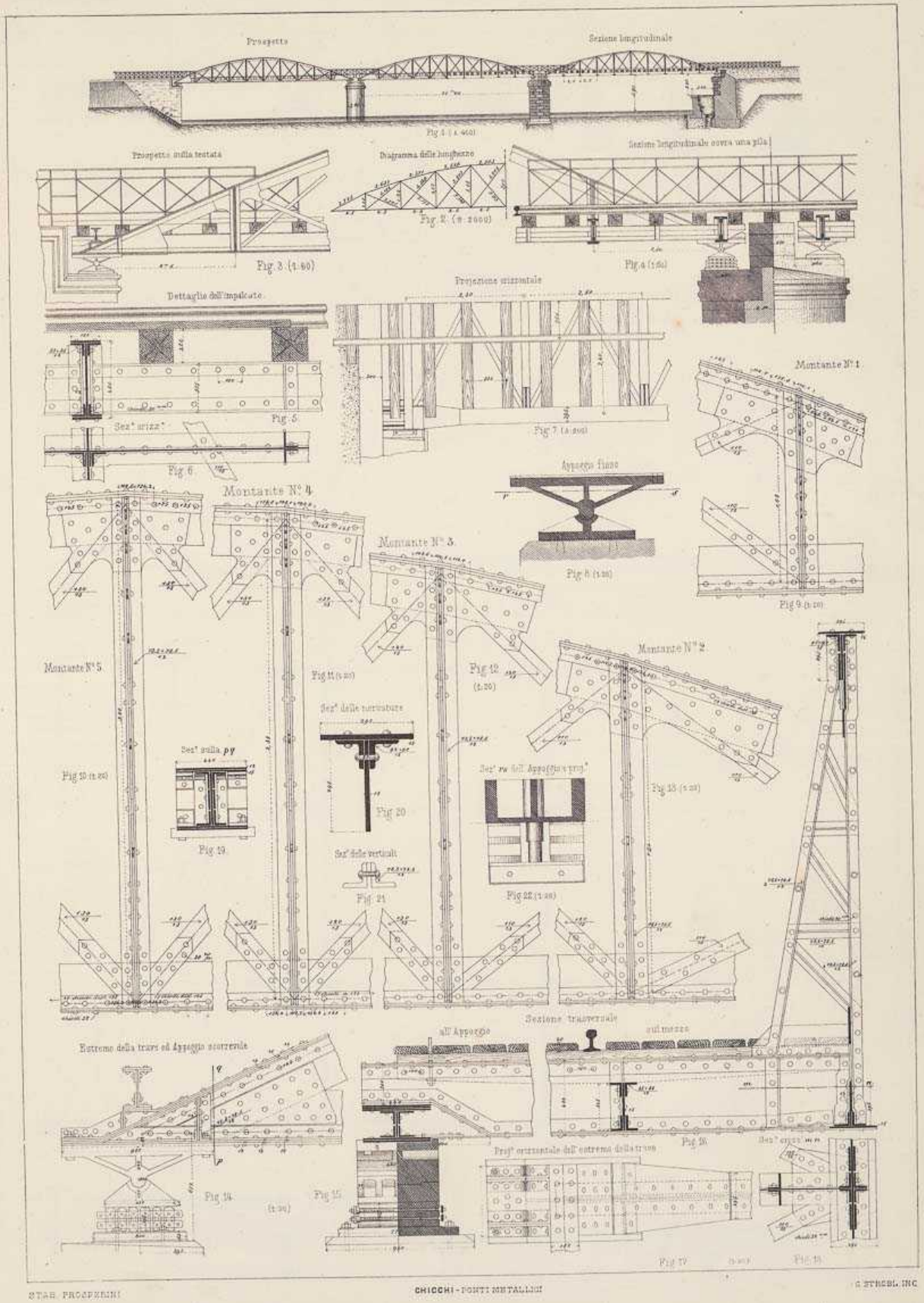
CHICCHI - PONTI METALLICI

G. STROBL INC.

PONTI A TRAVATA POLIGONALE

TRAVI PARABOLICHE

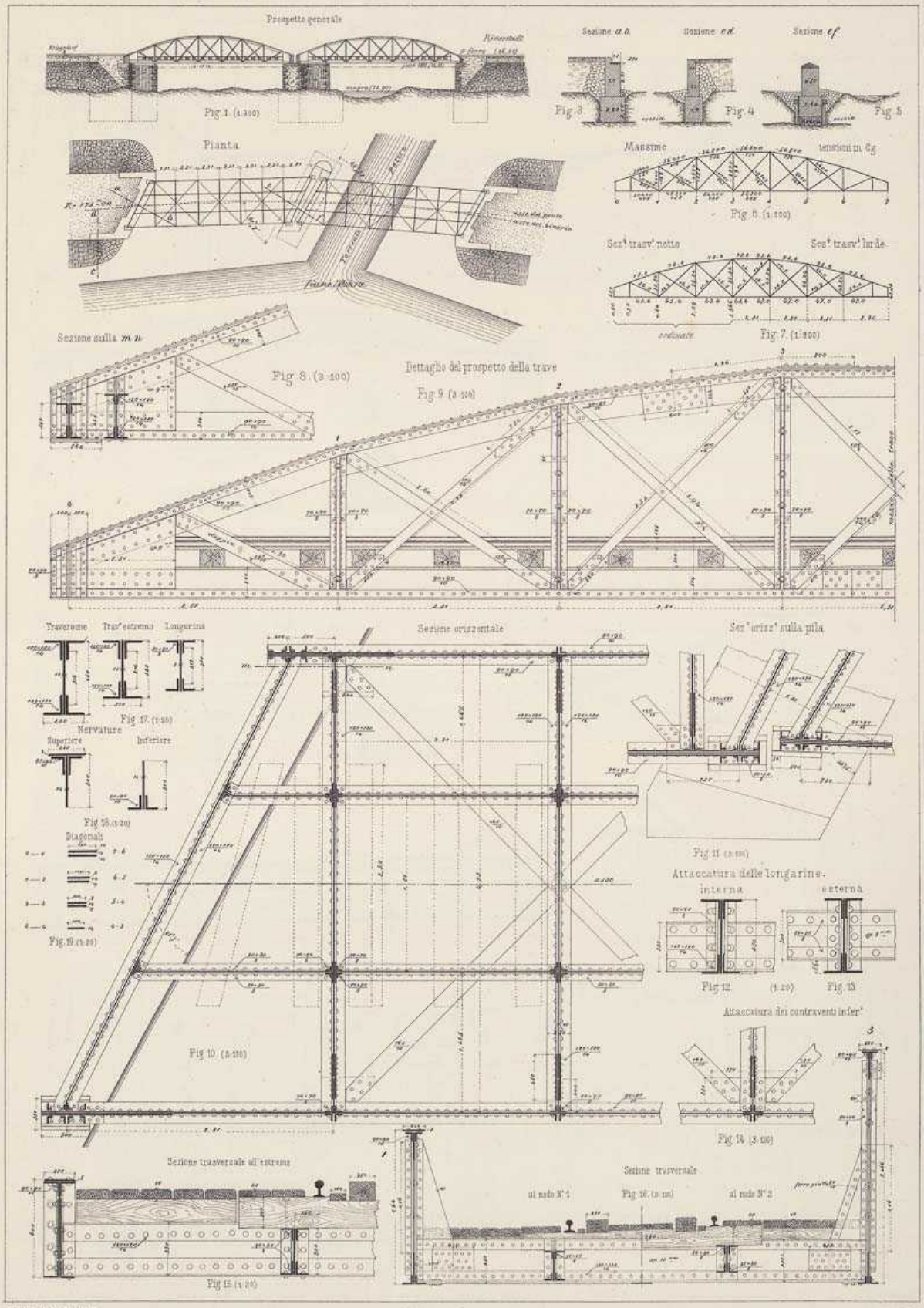
PER FERROVIA



PONTI A TRAVATA POLIGONALE

Ponte sul torrente Pohrz

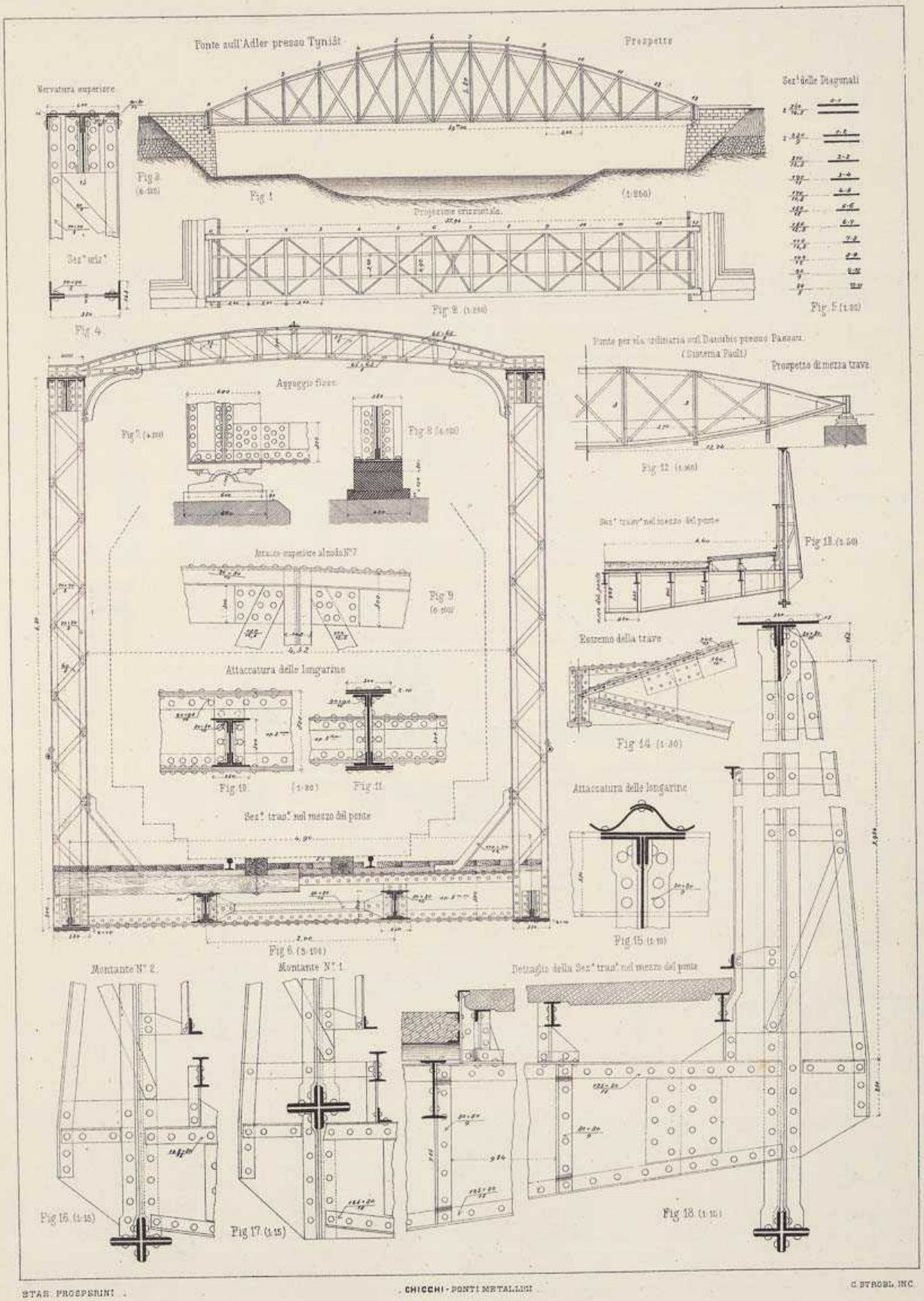
TRAVI PARABOLICHE — PER FERROVIA



PONTI A TRAVATA POLIGONALE

TRAVI PARABOLICHE E PAULI

PER FERROVIA E PER VIA ORDINARIA



STAB. PROSPERINI

CHICCHI - PONTI METALLICI

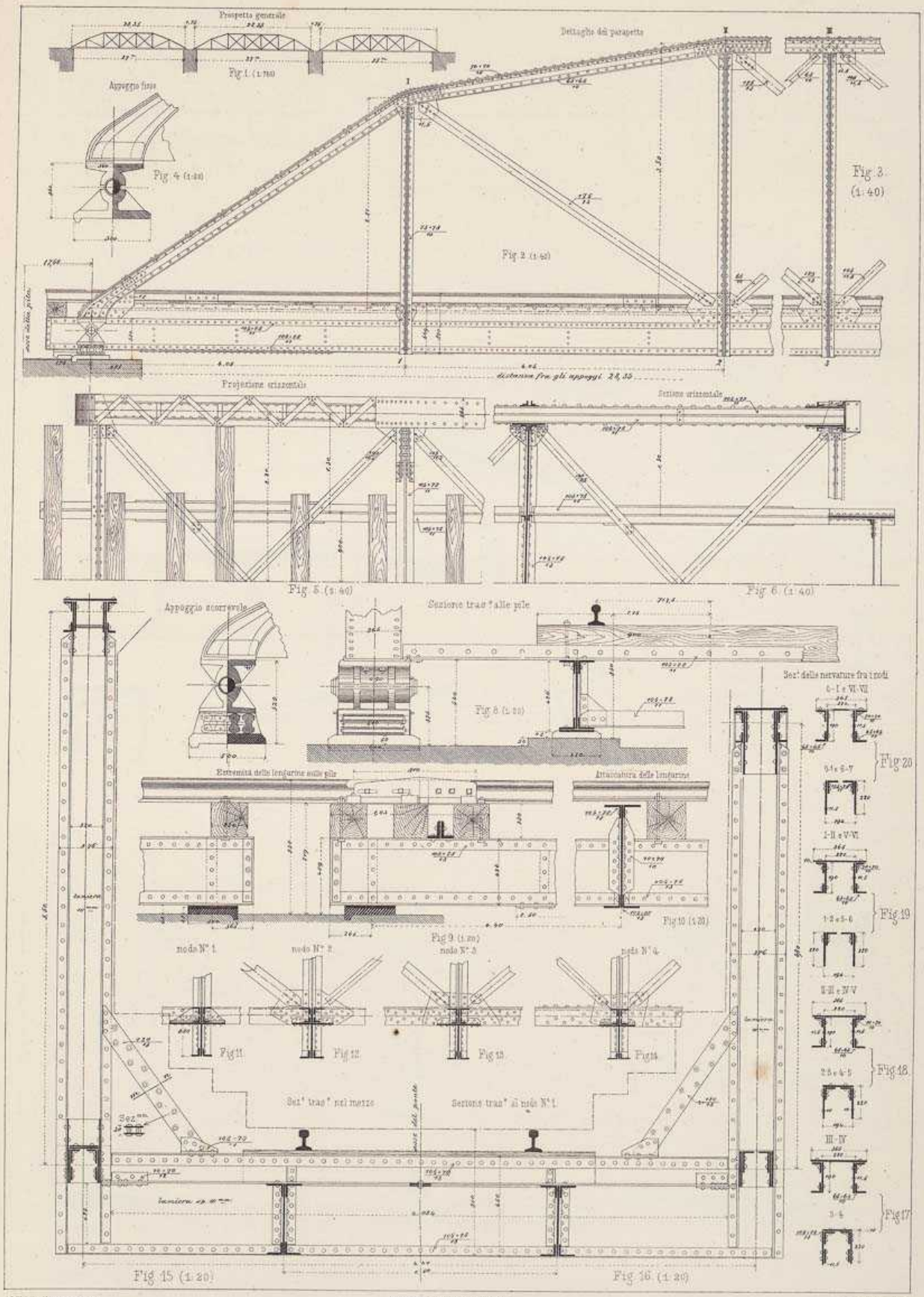
C. STROBL, INC.

PONTI A TRAVATA POLIGONALE

Ponte della ferrovia Breslavia-Friburgo

TRAVI SCHWEDLER

PER FERROVIA



STAB. PROSPERINI

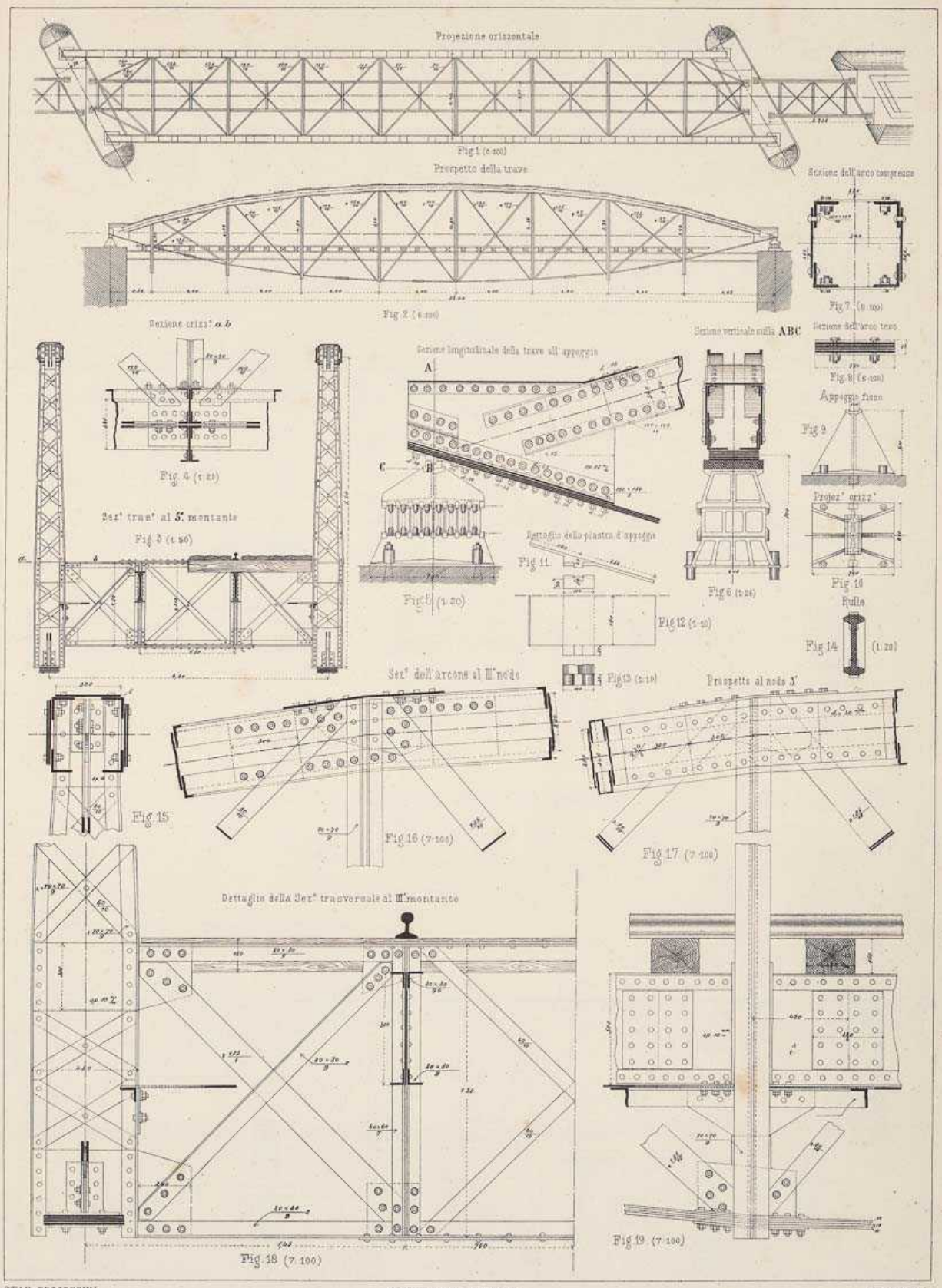
CHICCHI - PONTI METALLICI

C. STROBL INC.

PONTI A TRAVATA POLIGONALE

Ponte sul Rodach (Linea Hochstadt-Stockheim)

TRAVI PAULI — PER FERROVIA

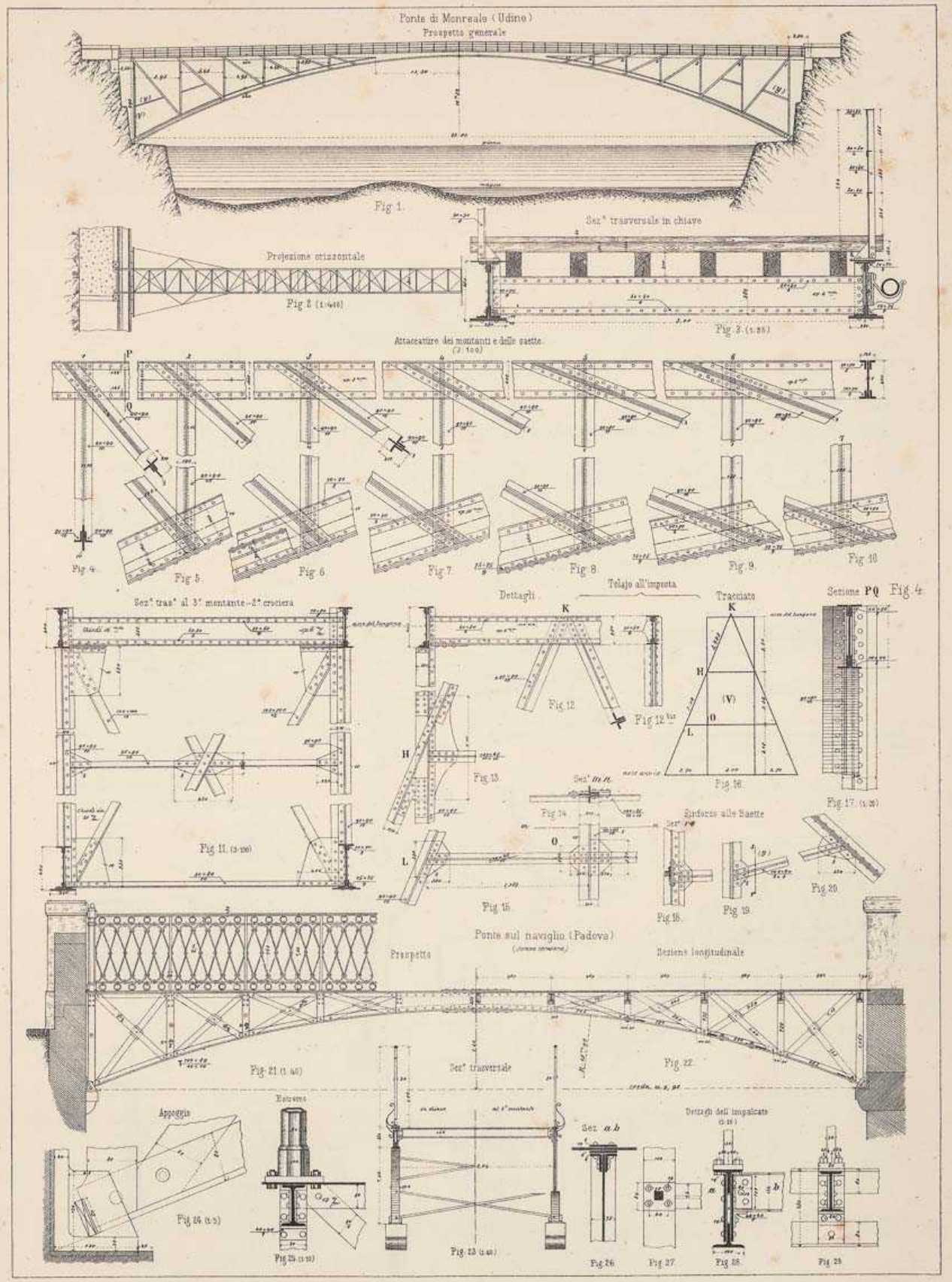


STAB. PROSPERINI — CHICCHI - PONTI METALLICI — C. STROBEL INC.

PONTI AD ARCO

CON E SENZA CERNIERE

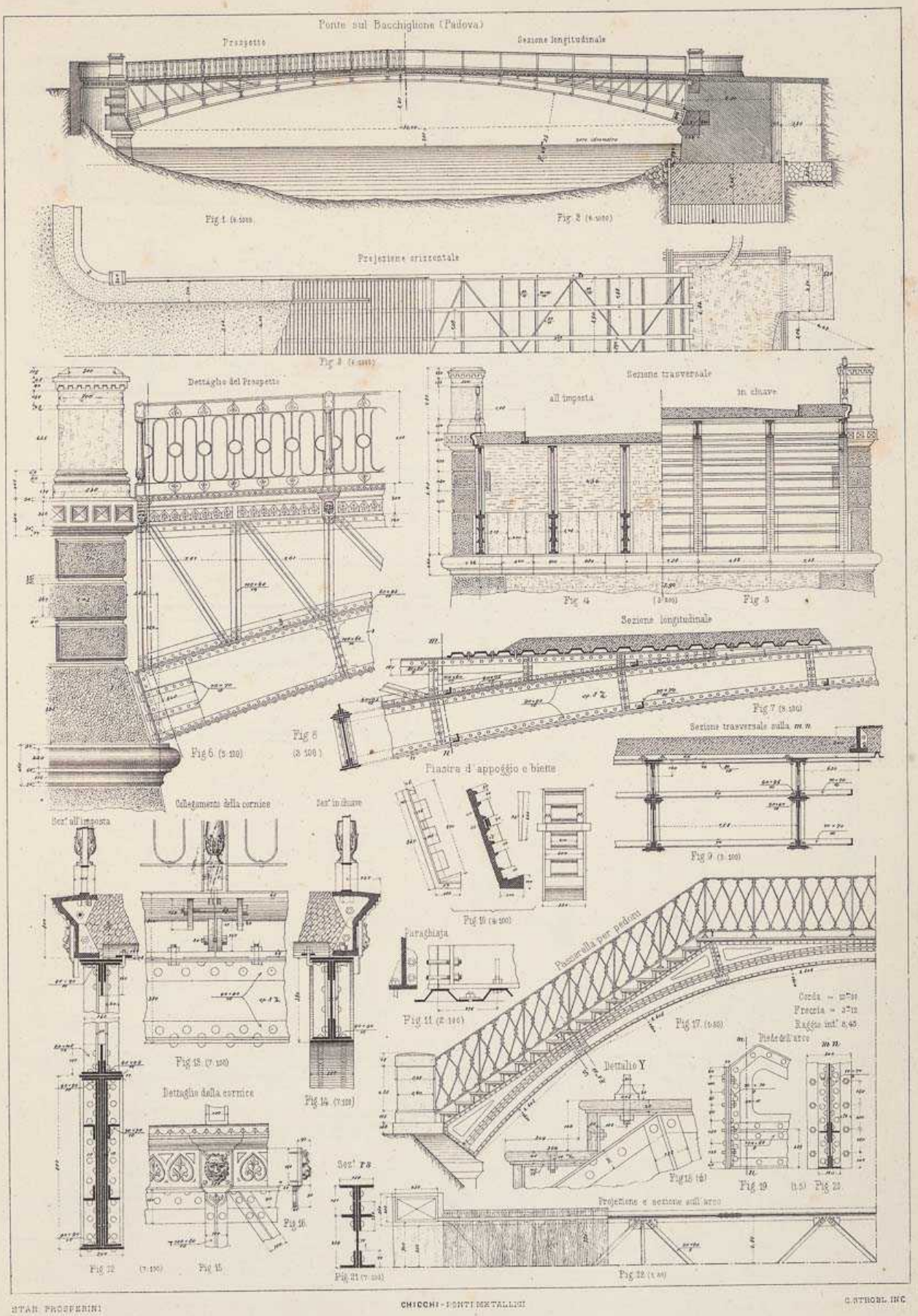
PER PEDONI



PONTI AD ARCO

SENZA CERNIERE

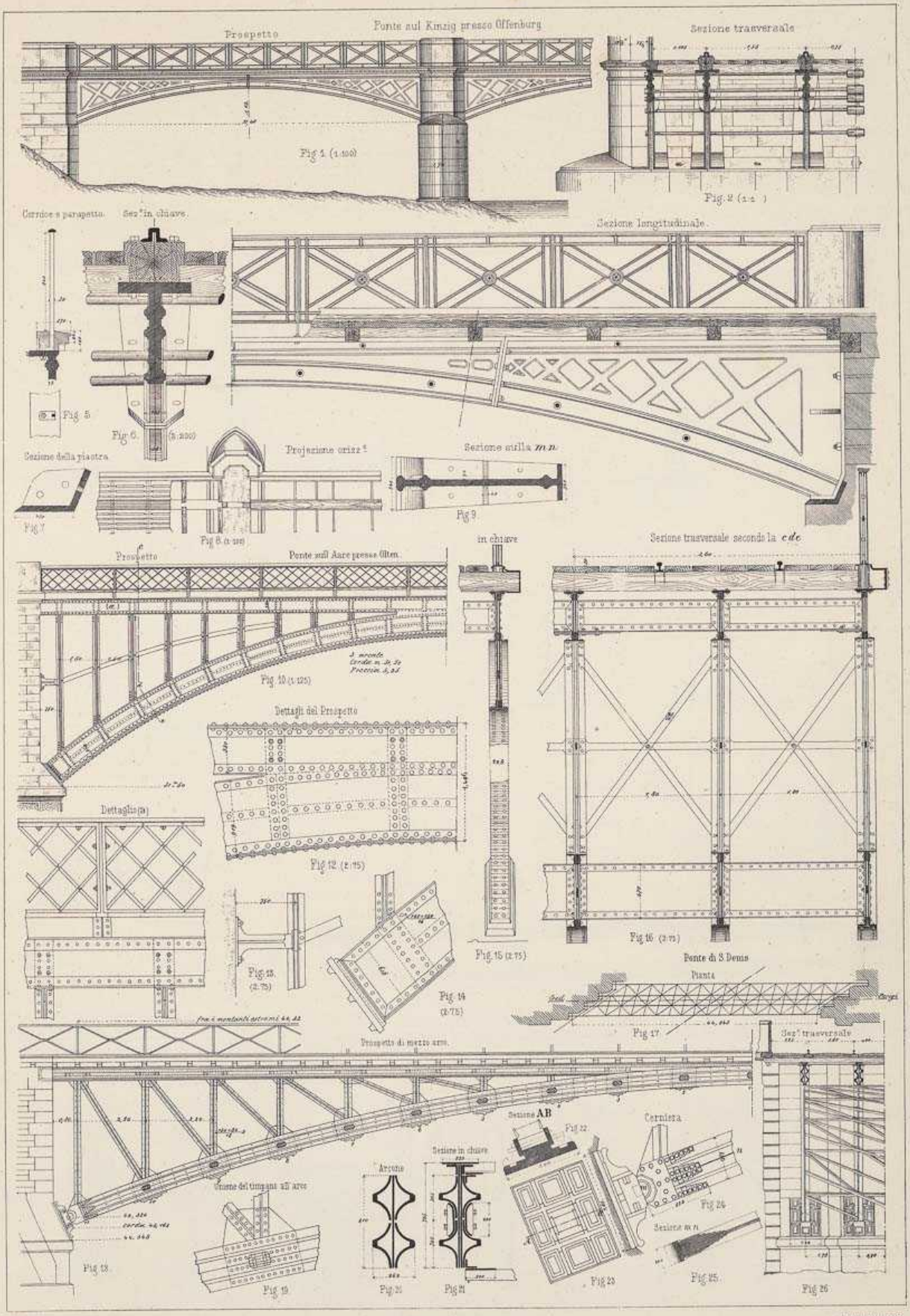
PER VIA ORDINARIA E PEDONALE



PONTI AD ARCO

CON E SENZA CERNIERE

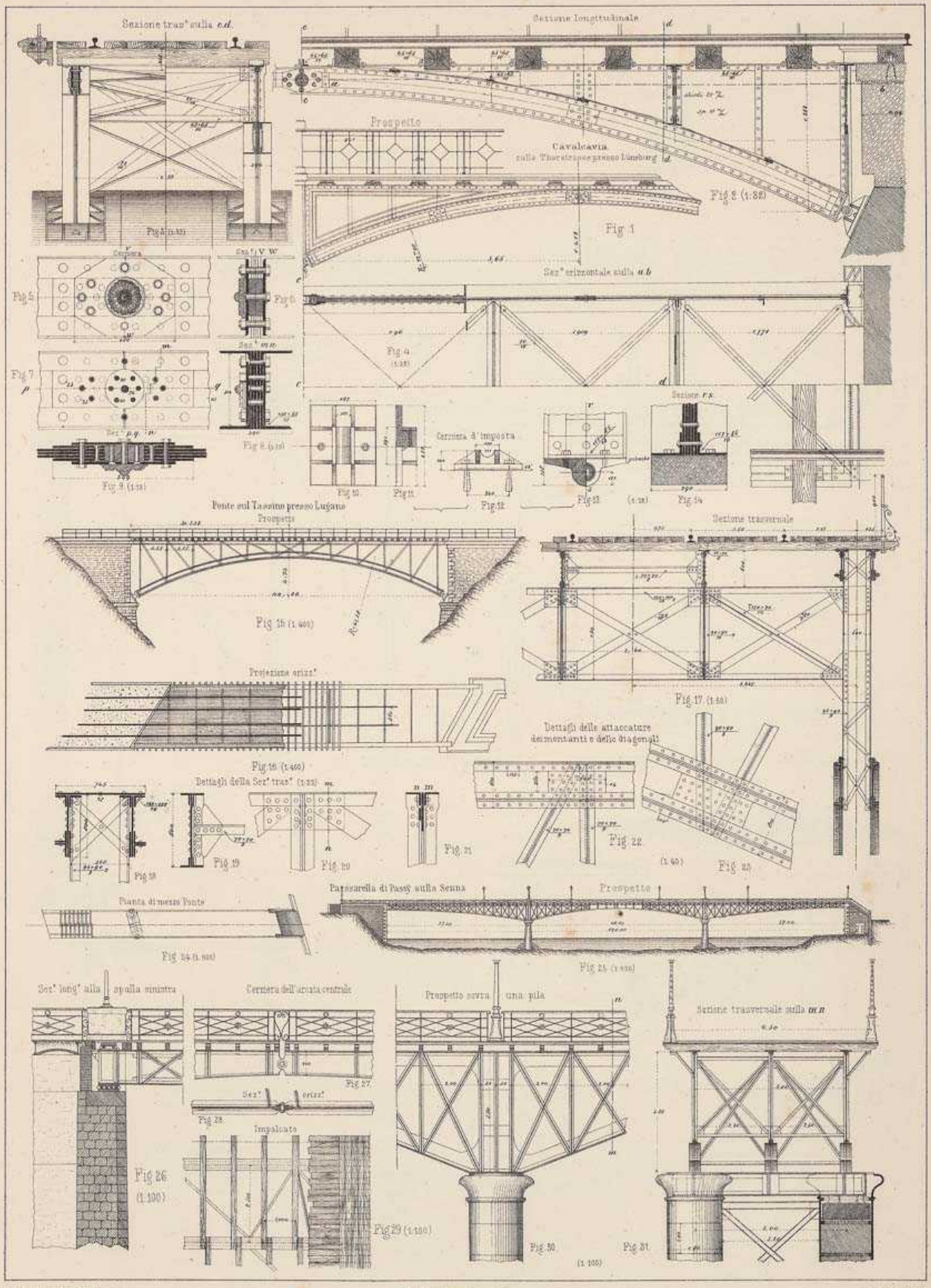
PER FERROVIA



PONTI AD ARCO

CON CERNERE

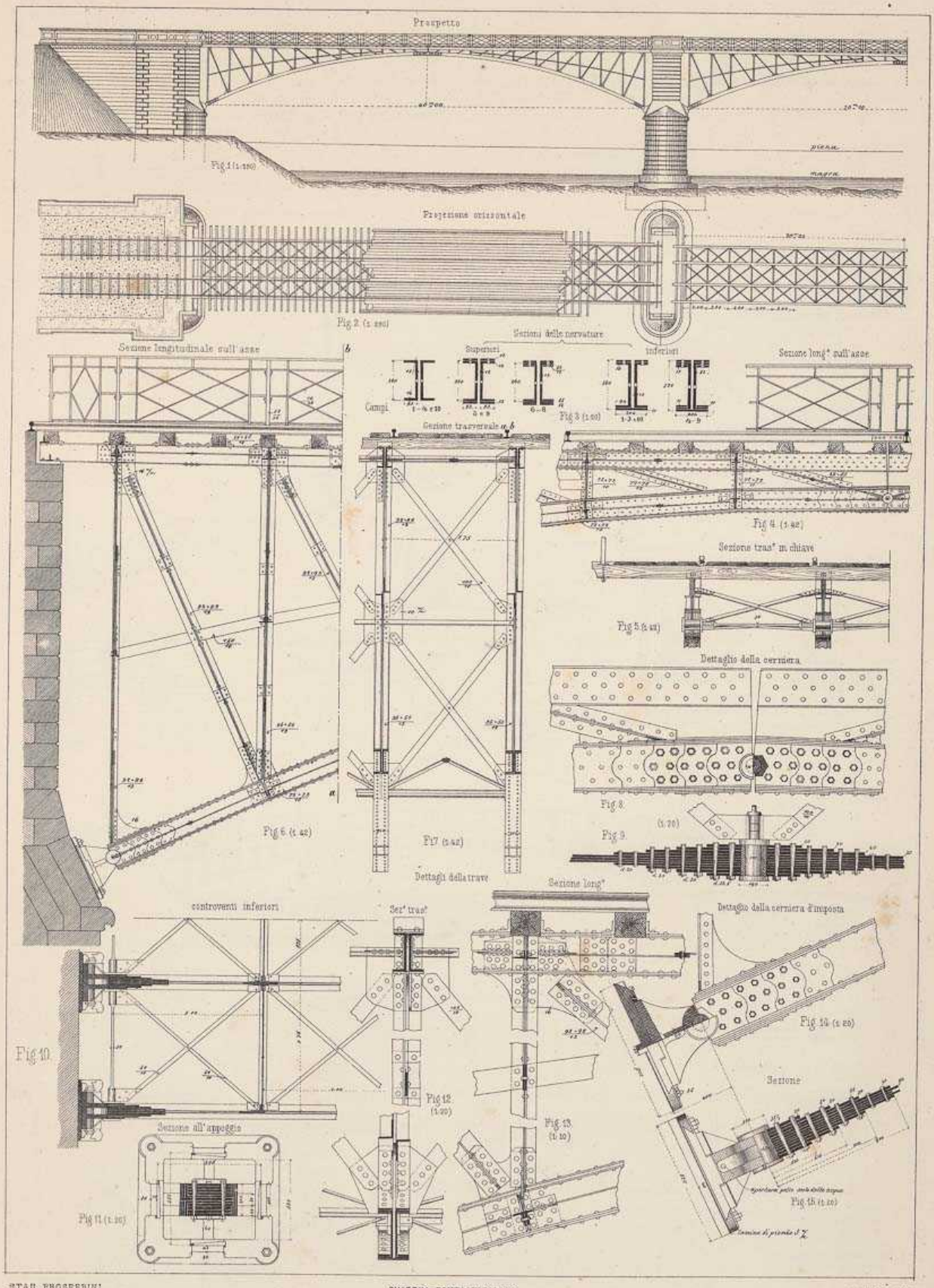
PER FERROVIA E PEDONI



PONTI AD ARCO

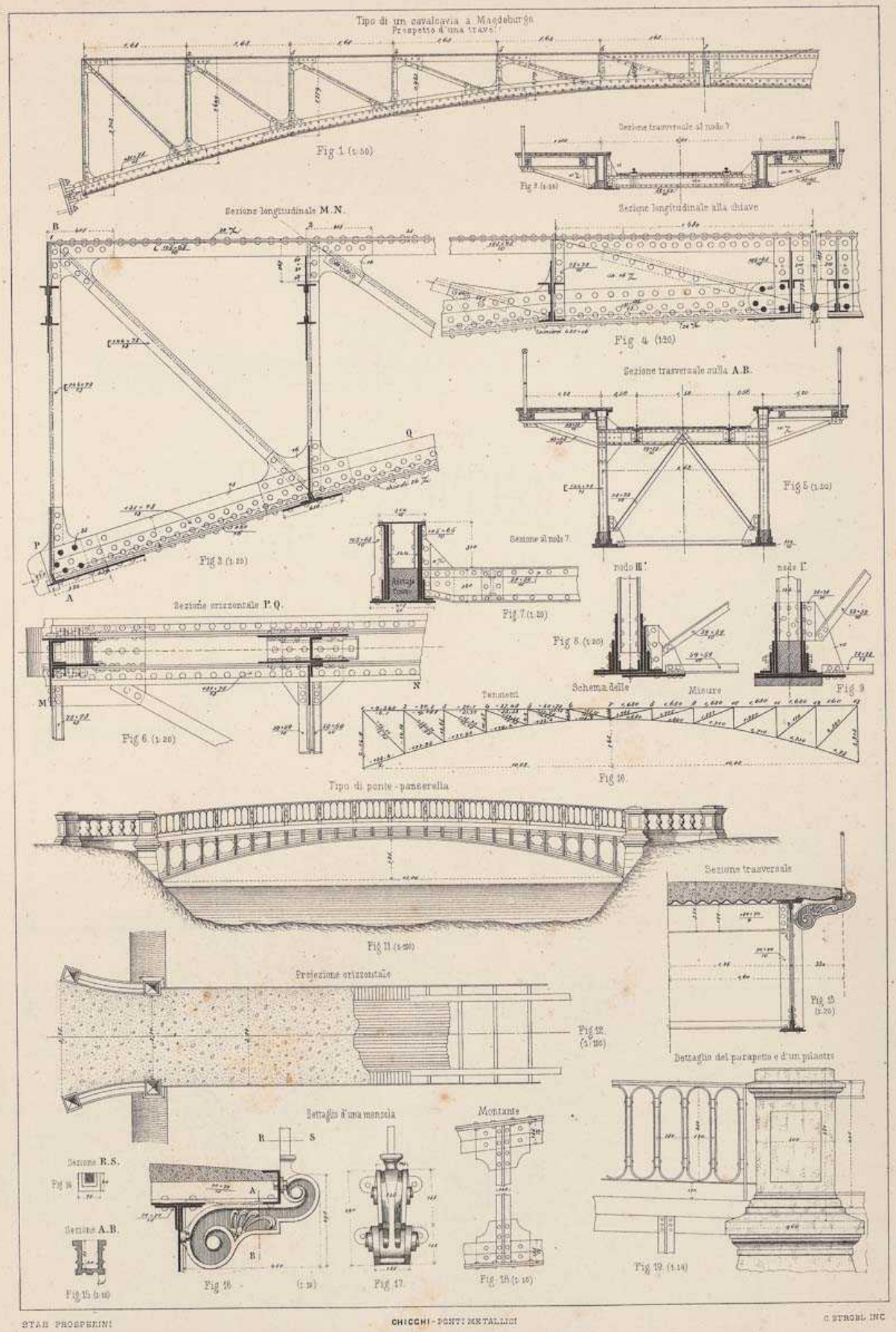
CON CERNERE

PER FERROVIA



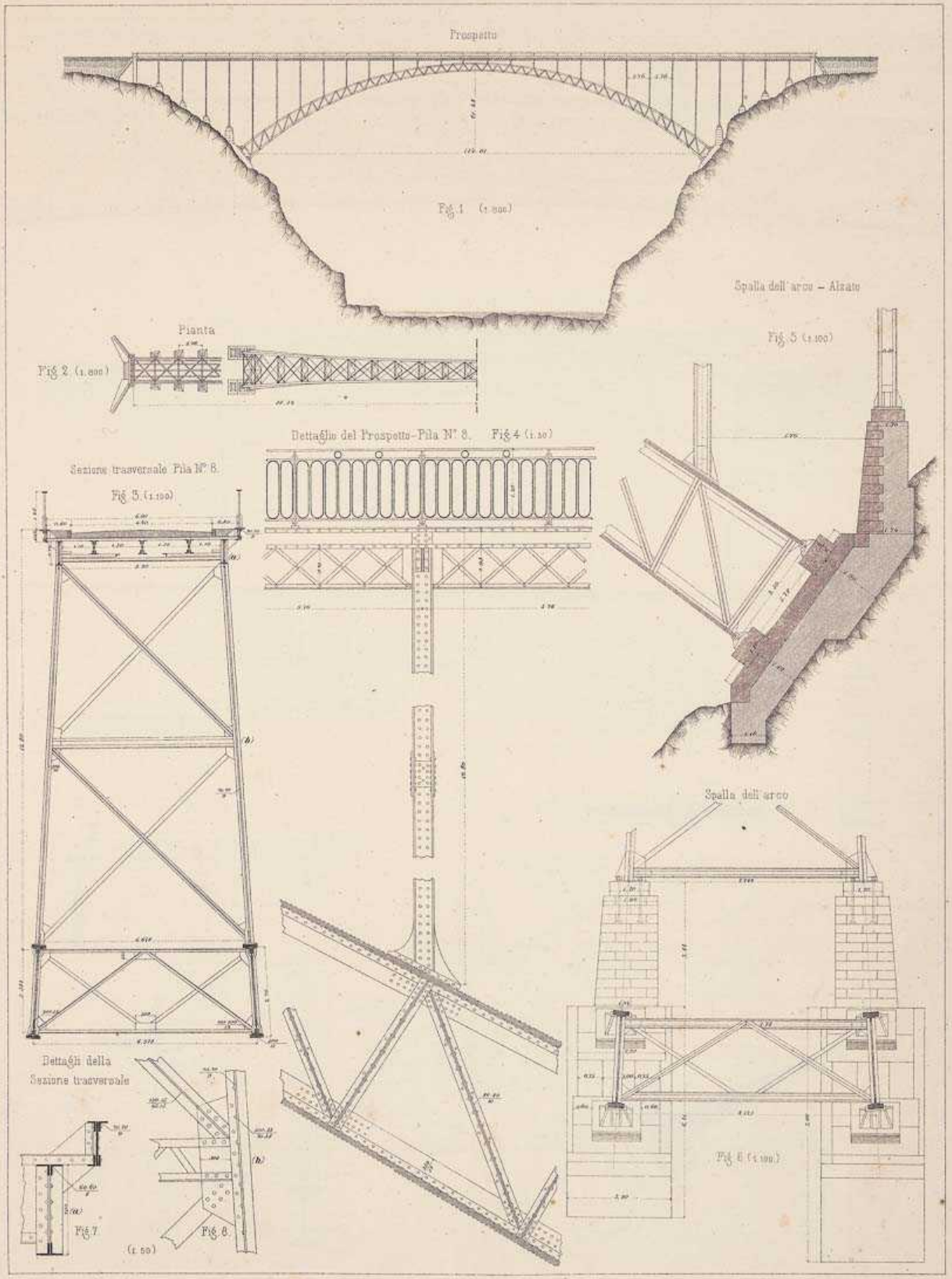
PONTI AD ARCO

CON E SENZA CERNIERE — PER FERROVIA E PER VIA ORDINARIA



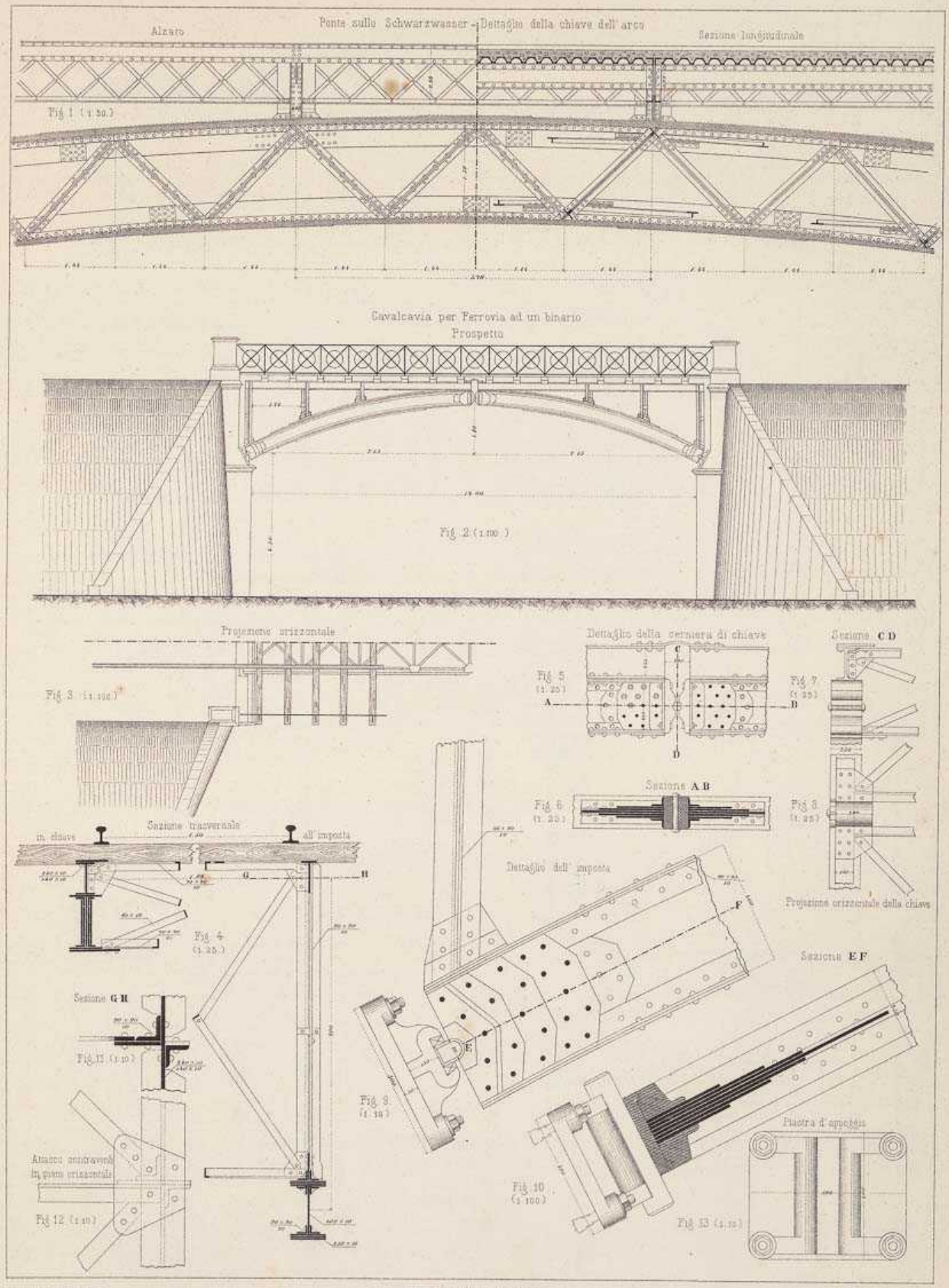
PONTI AD ARCO

SENZA CERNIERE — Ponte sullo Schwarzwasser — PER STRADA ORDINARIA



PONTI AD ARCO

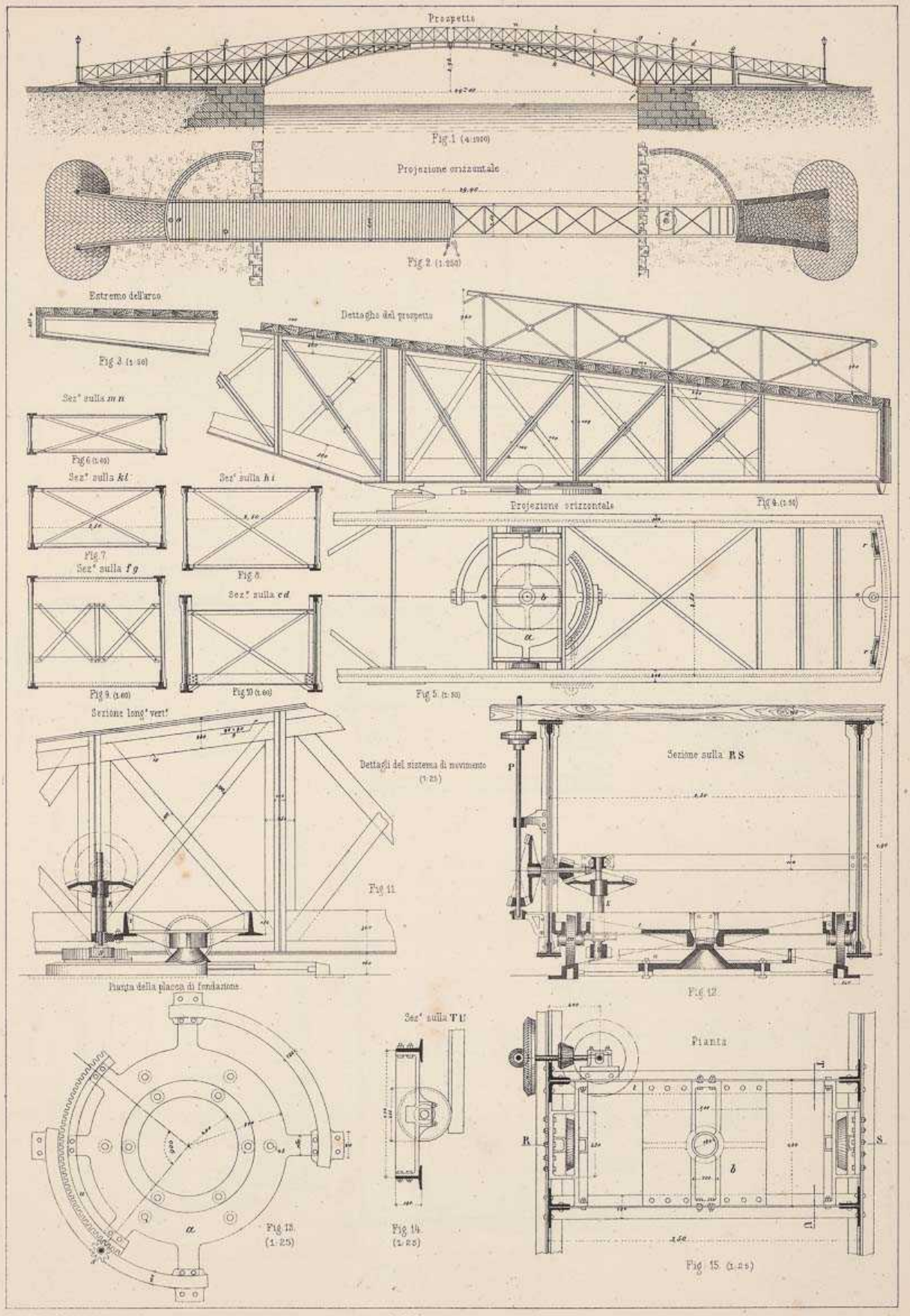
CON TRE CERNIERE — PER FERROVIA



PONTI GIREVOLI

Ponte nell' Arsenale di Spezia

AD ARCO — PER PEDONI

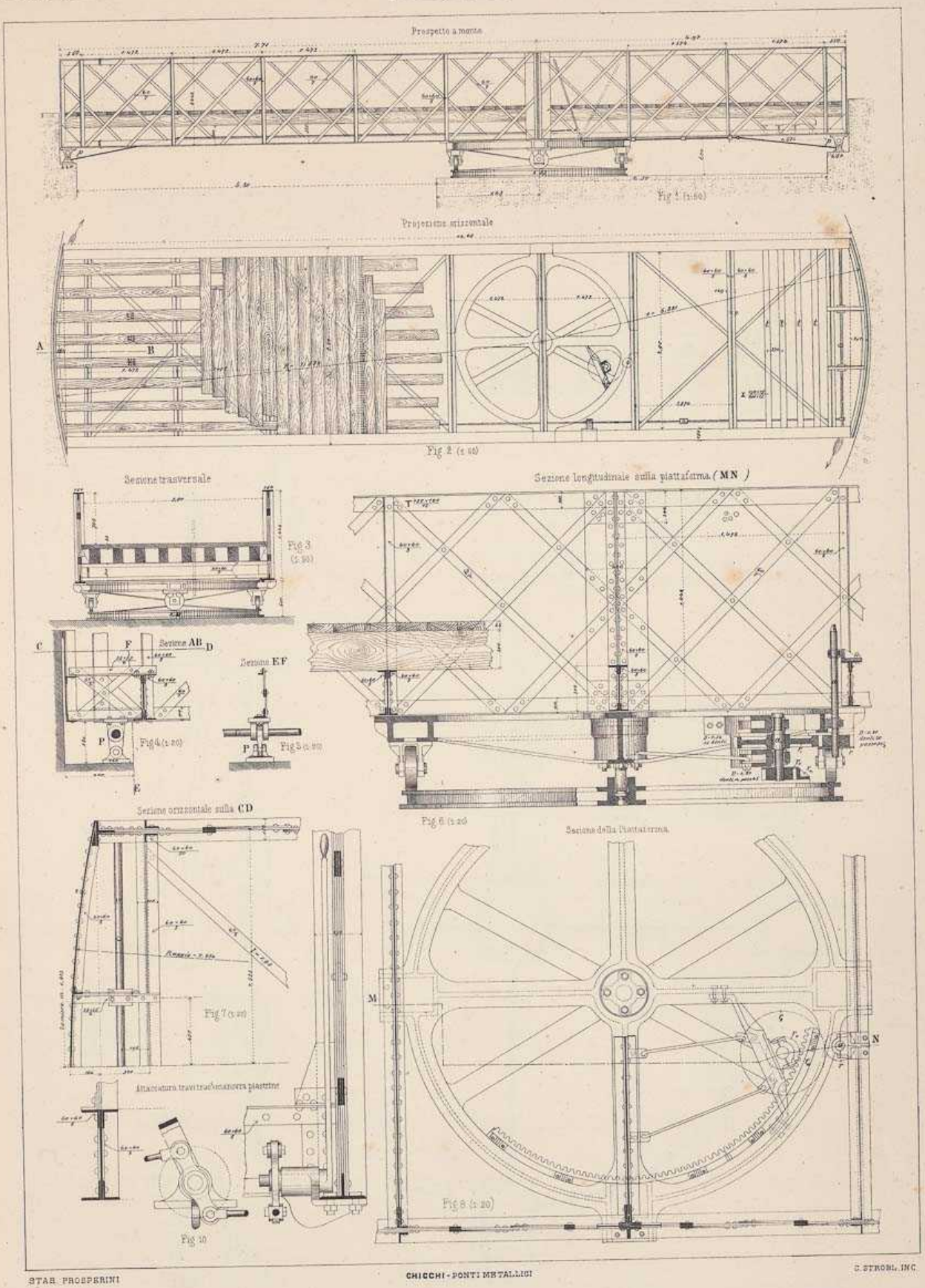


PONTI GIREVOLI

Ponte sul naviglio Mira

A TRAVE RETTILINEA

PER VIA ORDINARIA

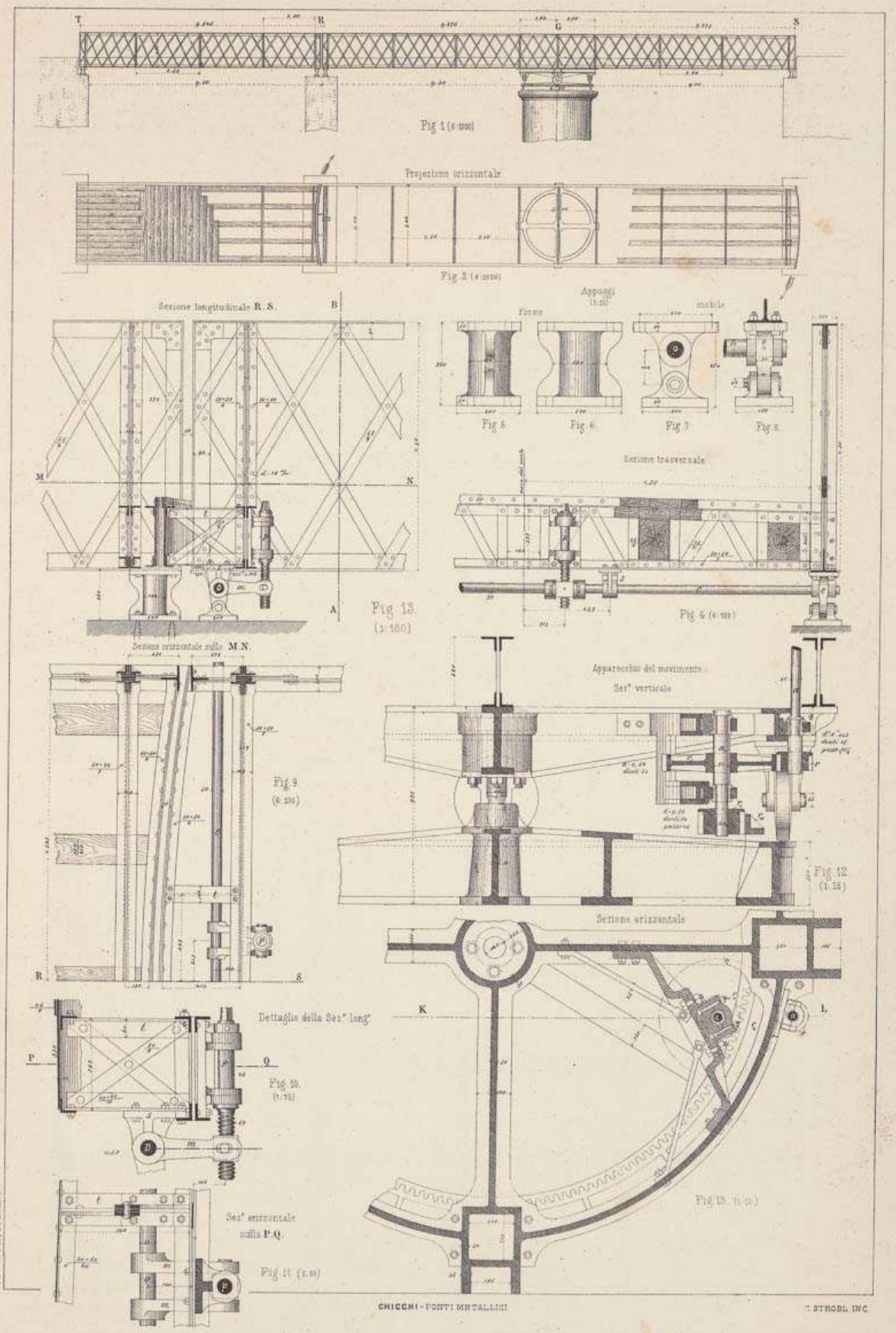


PONTI GIREVOLI

Novissimo a Passo Metal.

A TRAVE RETTILINEA

PER VIA ORDINARIA



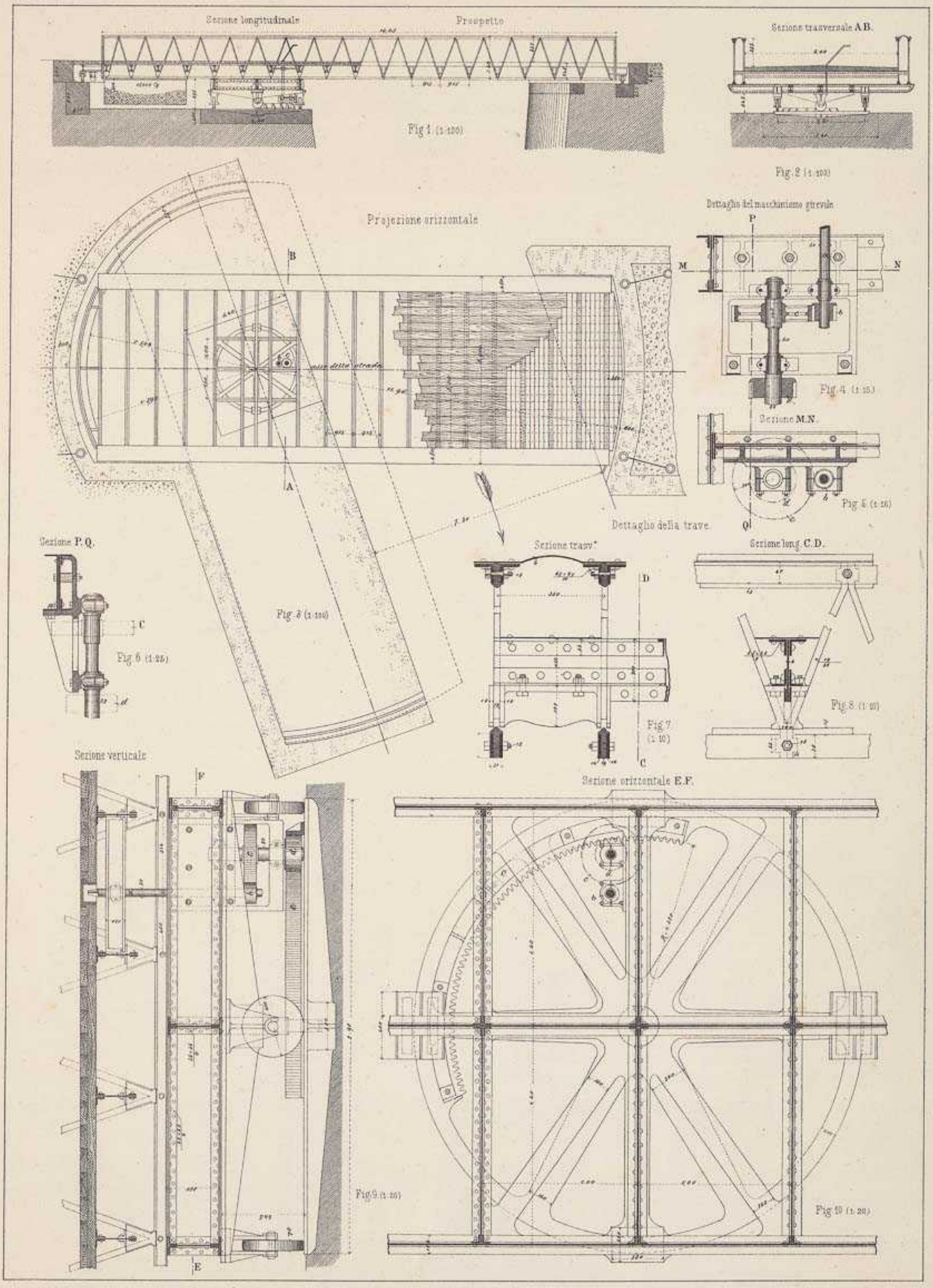
C. STROBEL INC.

A TRAVE RETTILINEA

PONTI GIREVOLI

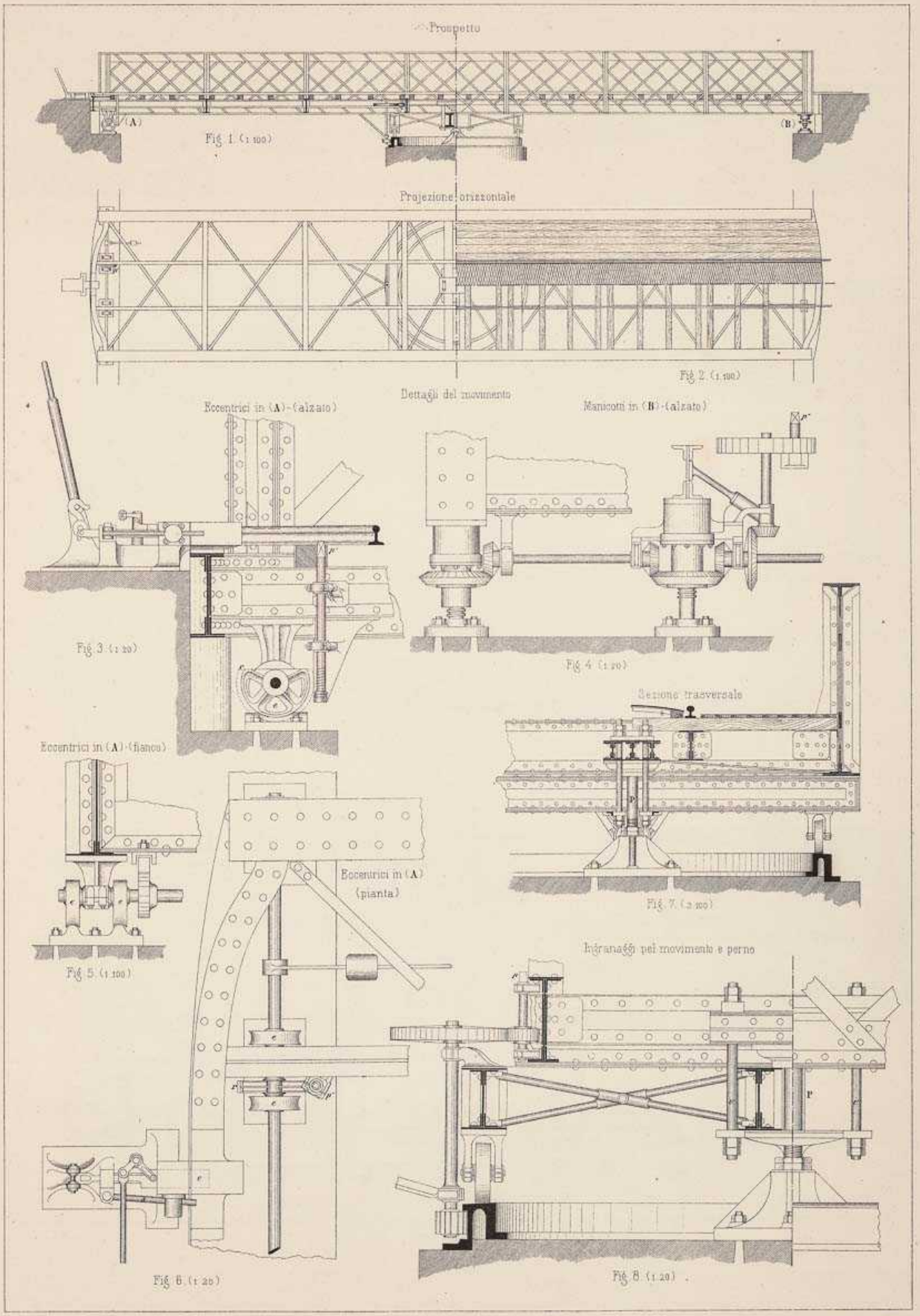
Ponte sul naviglio Strà-Dolo

PER VIA ORDINARIA



PONTI GIREVOLI

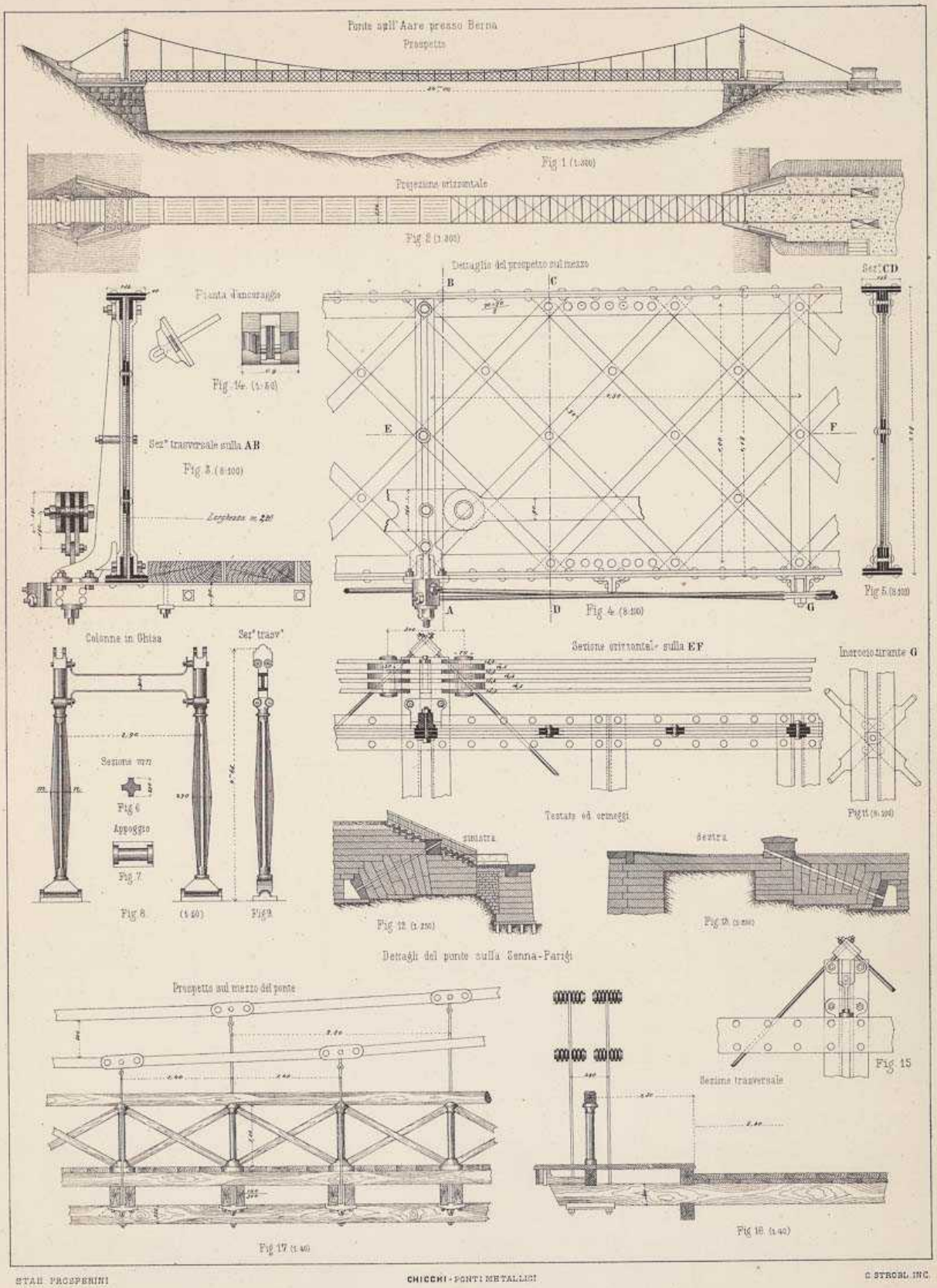
A TRAVATA — Ponte di Loreo (Linea Adria-Chioggia) — PER FERROVIA



PONTI SOSPESI

AD UNA CAMPATA

PER VIA ORDINARIA



STAB. PROSPERINI

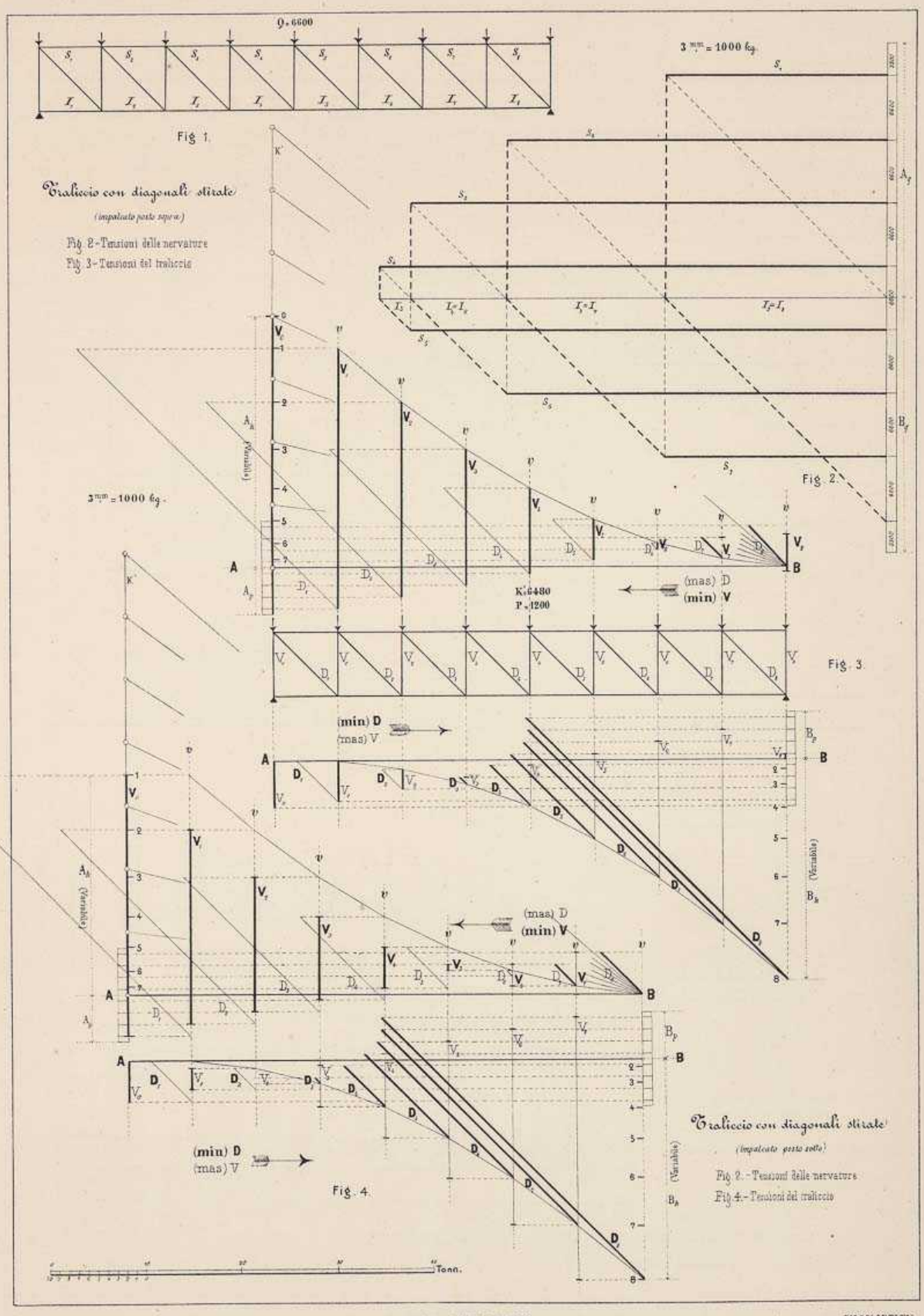
CHICCHI - PONTI METALLICI

C. STROBL INC.

COSTRUZIONI GRAFICHE PER IL CALCOLO DELLE TENSIONI

TRAVATE RETTILINEE

TRALICCIO DISSIMETRICO



LIT. P. ZANGROSSI

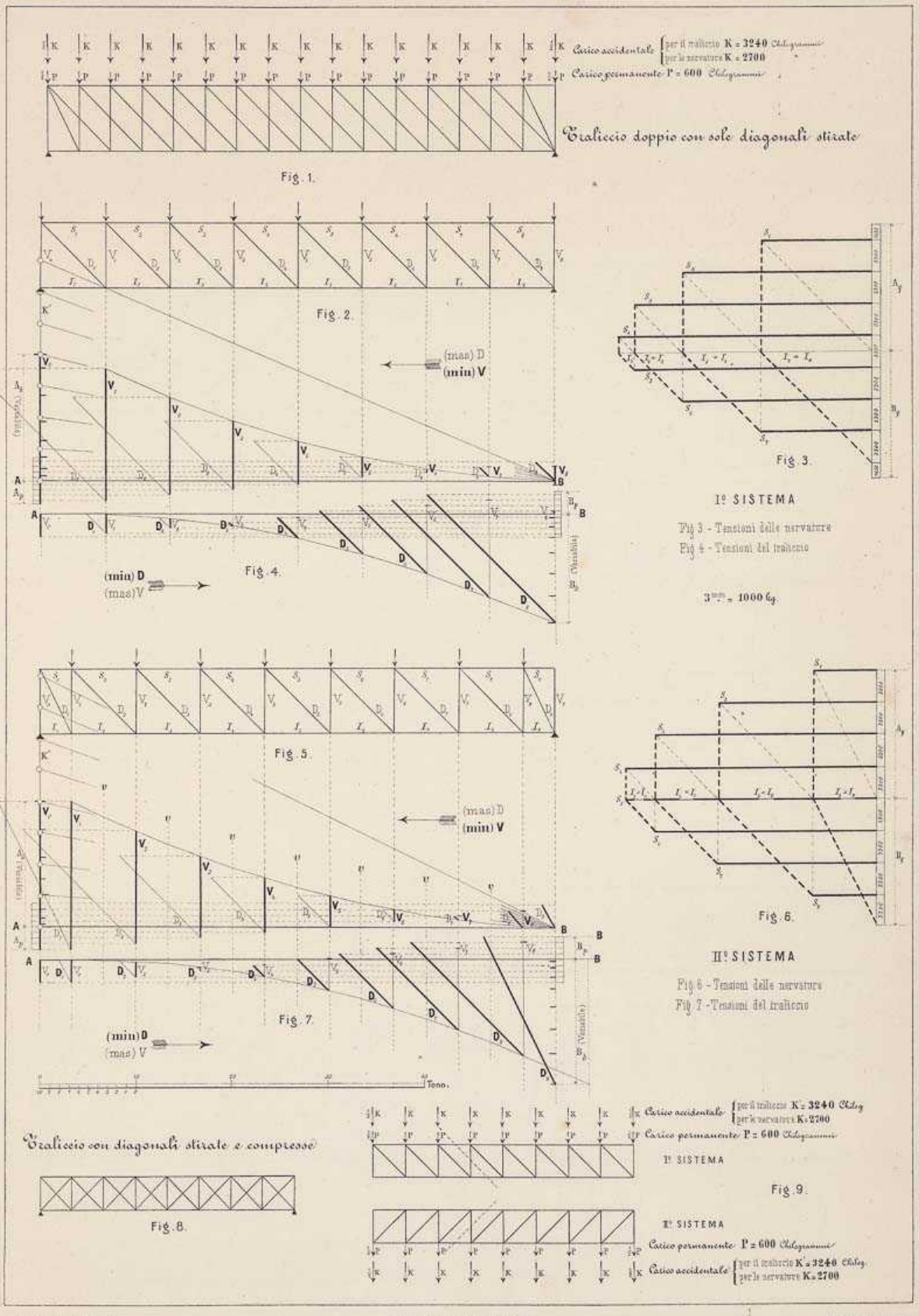
SMICCHI - PONTI METALLICI

TIPOLITOGRAFIA

COSTRUZIONI GRAFICHE PER IL CALCOLO DELLE TENSIONI

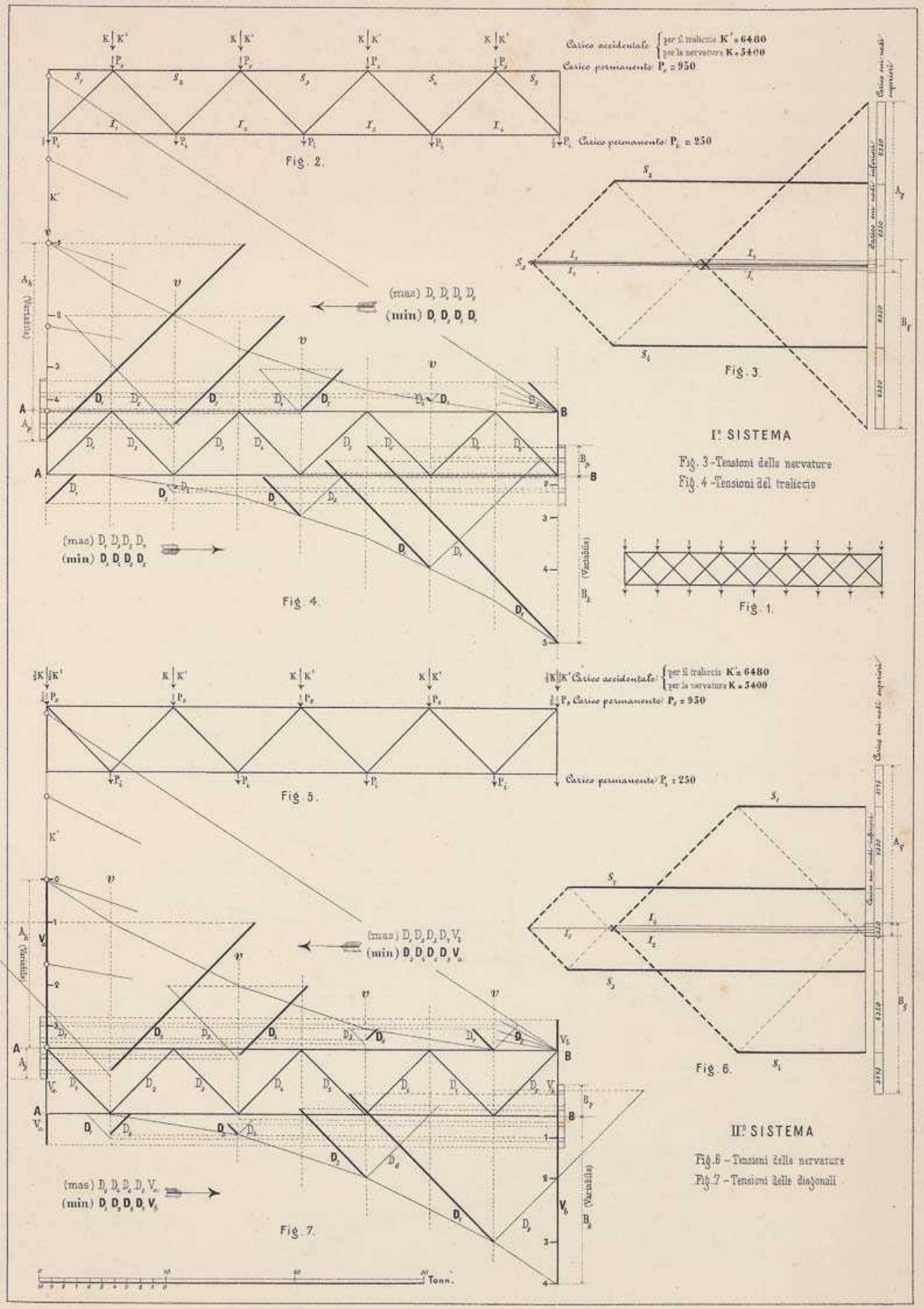
TRAVATE RETTILINEE

TRALICCIO DISSIMETRICO
(multiplo) e (sincronato)



COSTRUZIONI GRAFICHE PER IL CALCOLO DELLE TENSIONI

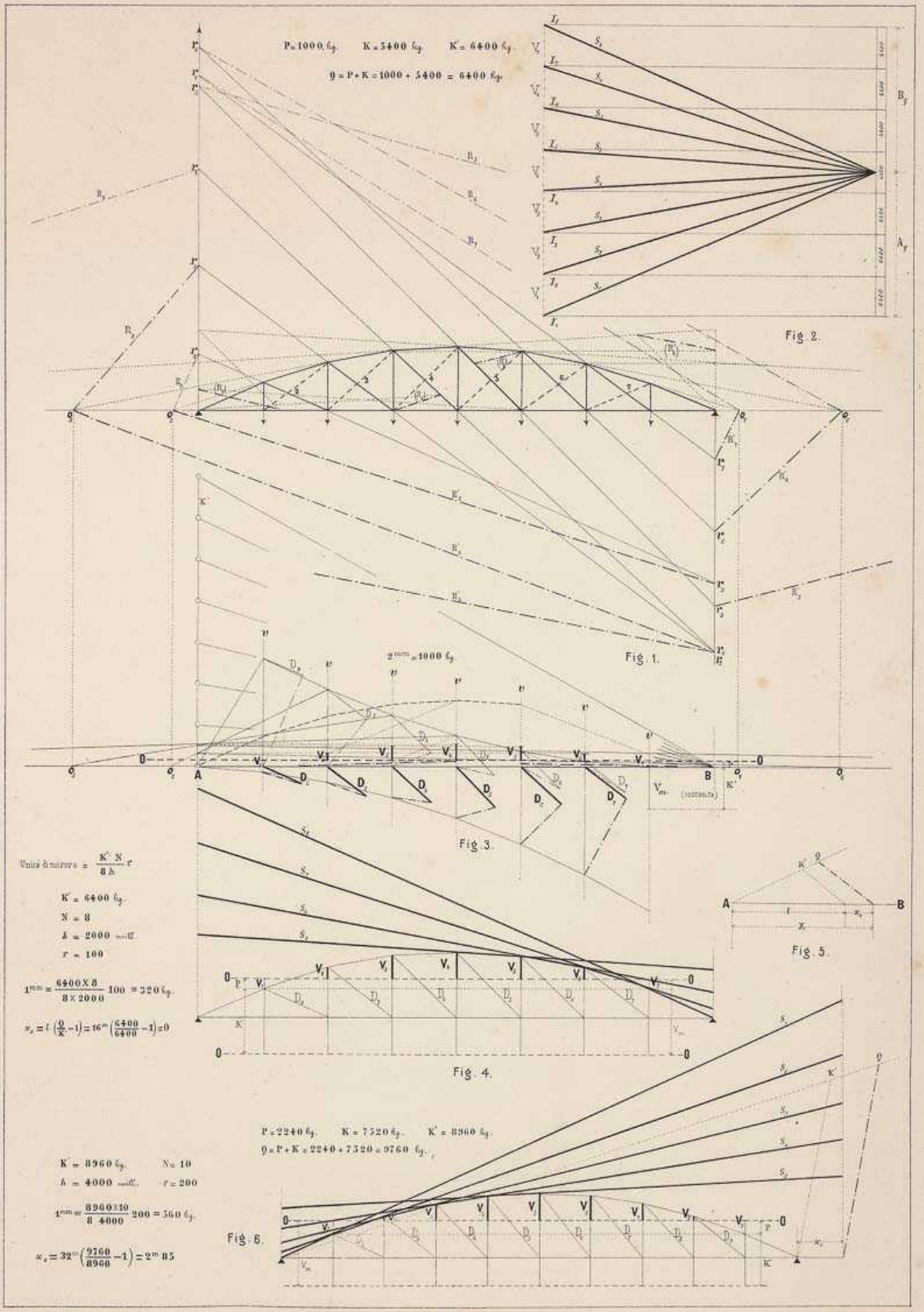
TRAVATE RETTILINEE — TRALICCIO SIMETRICO



COSTRUZIONI GRAFICHE PER IL CALCOLO DELLE TENSIONI

TRAVATE POLIGONALI

TRAVI PARABOLICHE

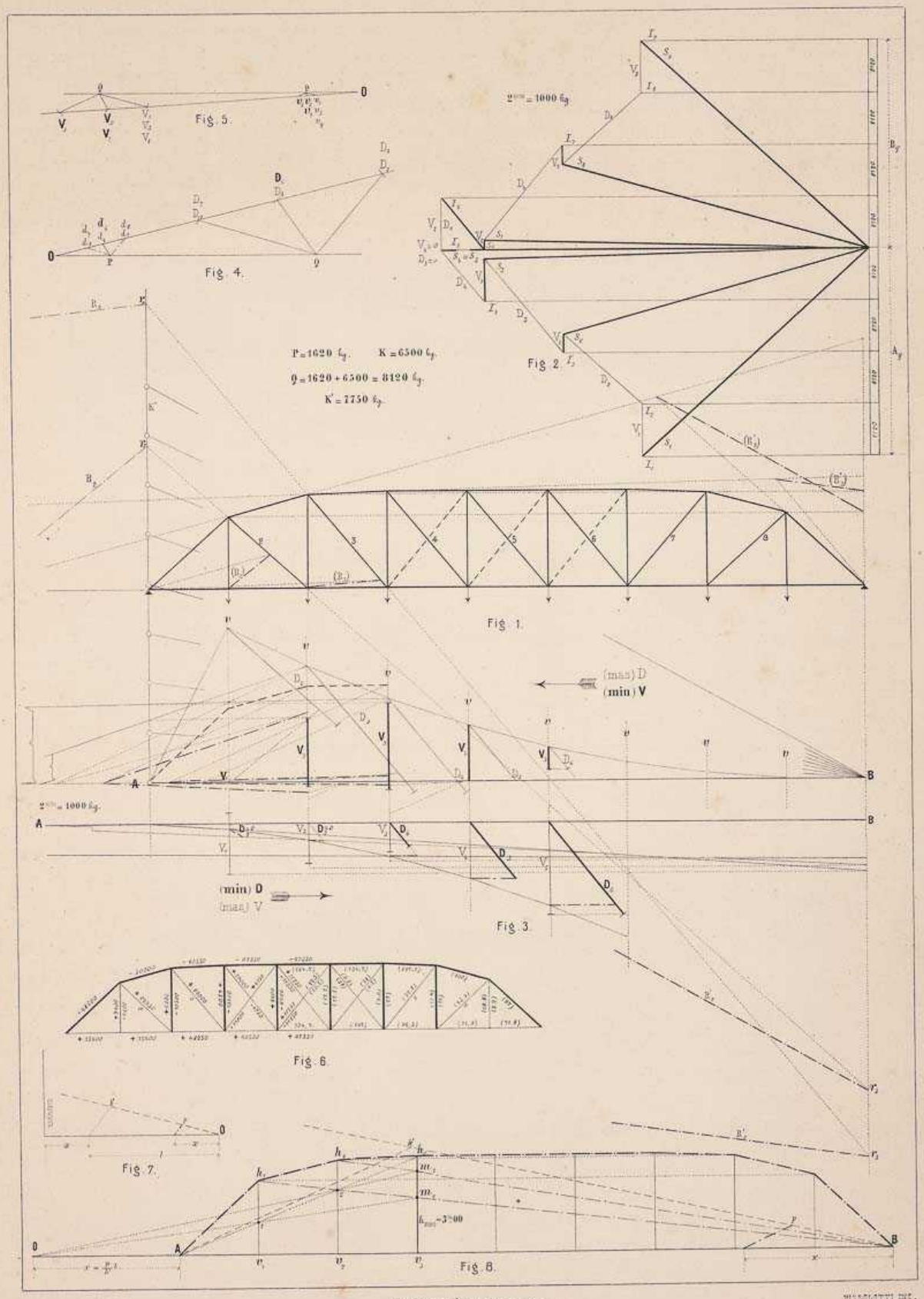


LIT. P. RANGHOSSI CHICCHI-PONTI METALLICI PIRELLOTTI DIS.

COSTRUZIONI GRAFICHE PER IL CALCOLO DELLE TENSIONI

TRAVATE POLIGONALI

TRAVI SCHWEDLER
(iperboliche)



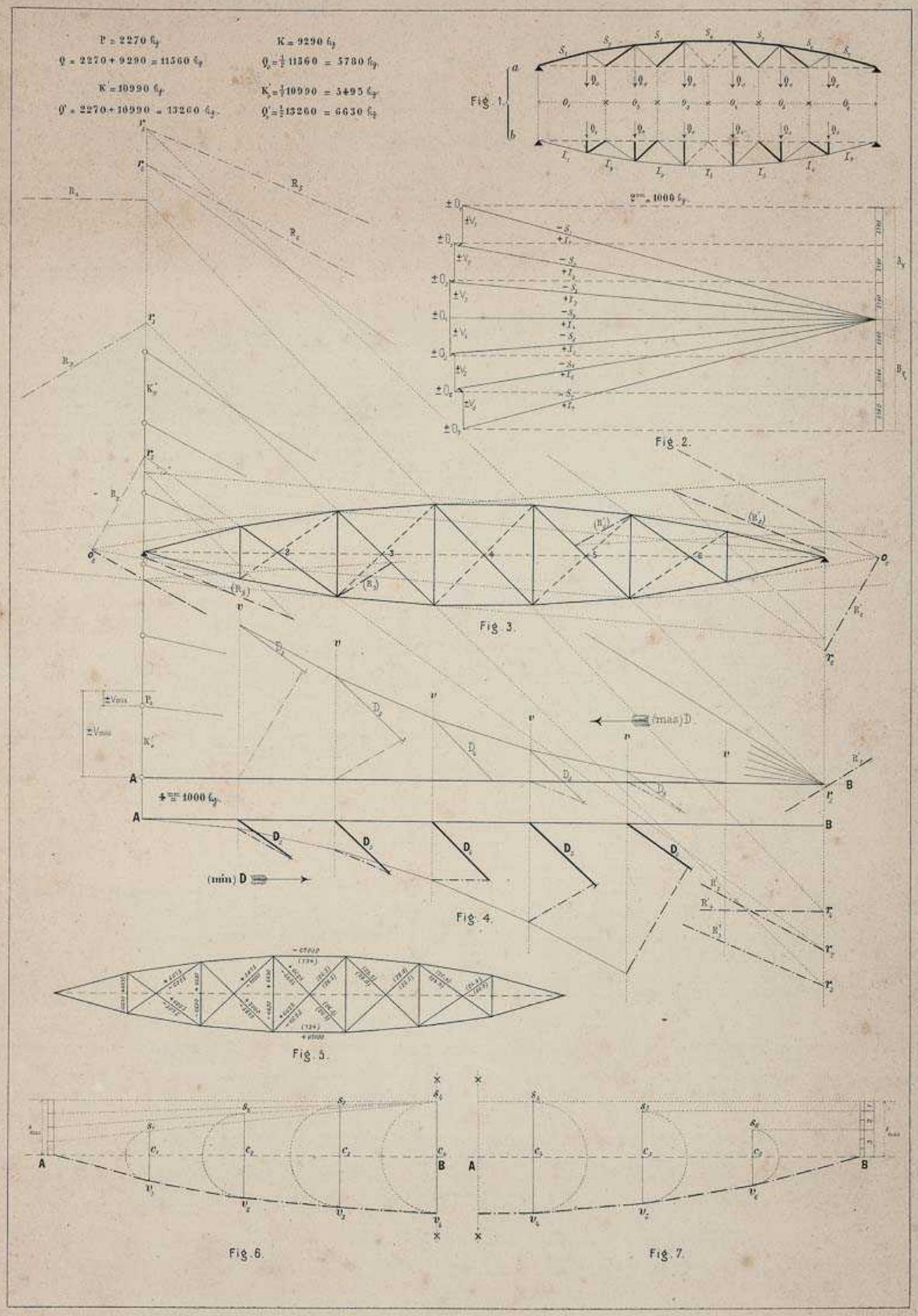
LIT. F. LANGROSSI

CHICCHI - PONTI METALLICI

TIRALOTTI DIS.

COSTRUZIONI GRAFICHE PER IL CALCOLO DELLE TENSIONI

TRAVATE POLIGONALI — TRAVI PAULI



INDICE DELL' ATLANTE

I. PONTI A TRAVATA CON TRAVI DIRITTE.

α) di piccola portata.

1) Pedonali.

2) Per strada ordinaria.

3) Per ferrovia.

β) di grande portata.

NB. *Si prende in considerazione soltanto la forma delle travi principali e la posizione dell'impalcato.*

A) Ad una travata (*per ferrovia*).

B) A più travate con travi continue.

1) Per strada ordinaria.

2) Per ferrovia.

II. PONTI A TRAVATA CON TRAVI POLIGONALI.

α) Con travi paraboliche.

β) Con travi Schwedler (iperboliche).

γ) Con travi Pauli.

III. PONTI AD ARCHI.

1) Pedonali.

2) Per strada ordinaria.

3) Per ferrovia.

IV. PONTI GIREVOLI.

1) Ponti pedonali.

2) Per strada ordinaria.

3) Per ferrovia.

V. PONTI SOSPESI.

VI. COSTRUZIONI GRAFICHE PER IL CALCOLO DELLE TENSIONI NELLE TRAVI RETICOLARI.