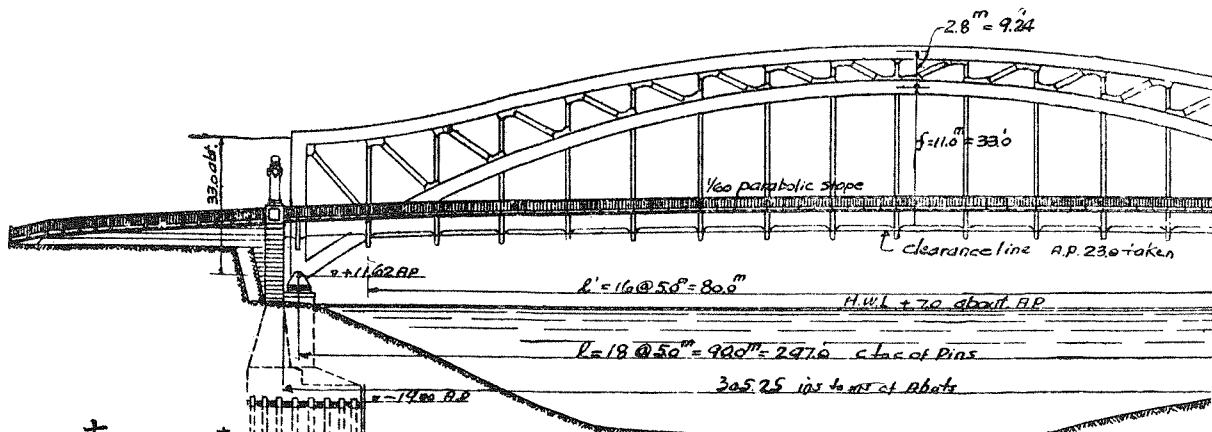


GENERAL ELEVATION



南千住町側

東口八寸毛竹尺二六八本打込

Radius of Arch

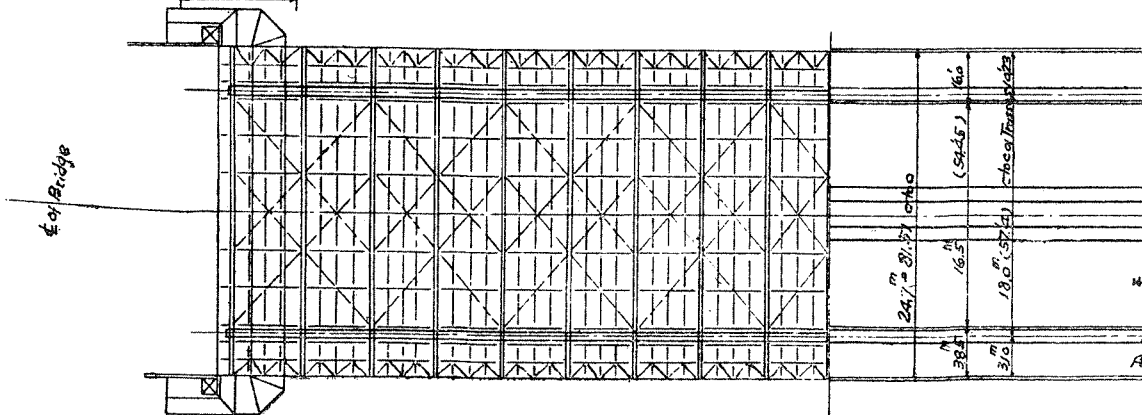
For Top Chord  $R = 114.5^m = 378.0$  abt.  
 For Lower chord  $R = 78.227^m = 258.0$  abt.

Proportion of Rise to Span  
 Height of Truss at center =  
 Span Length  
 or  
 Rise of Lower chord =  
 Span Length

HALF PLAN OF DECK FRAMING

☿ of Bridge

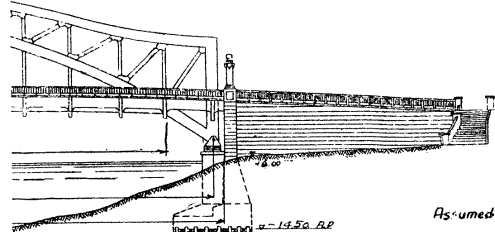
GENERAL PLAN



General drawing showing the new Senju-Ohashi bridge design.

土木建築 工事畫報第四卷第二號(昭和三年二月)附圖

# 大橋設計說明概略



Length, etc  
 $\frac{28}{80} = \frac{1}{2.86}$   
 $\frac{28}{90} = \frac{1}{3.21}$   
 $\frac{48}{30} = \frac{1}{.73}$   
 $\frac{48.24}{40} = \frac{1}{.83}$

千住町側

### Assumed Loadings on Bridge

Uniform load on Road way,  $w = \frac{120,000}{70 \times 6} \approx 600 \text{ kg/m}^2$   
 on Sidewalk  $w = \frac{180,000}{70 \times 6} \approx 500 \text{ kg/m}^2$   
 Motor Truck Loading 12.0 ton  
 Road Roller 14.0 ton  
 Electric car loading 30.0-ton cars coupled  
 Max impact limited to 20% No impact for uniform Live Load and Road Roller

### Misc Data

Total Steel Weight 1600 ton about  
 Reaction on one pin  $6500 \text{ ton} \times 0.2 = 1300 \text{ ton}$   
 Dia of pin  $11" \times 9$  2800 t.L Total 930. ton

### Maximum sections of chord members

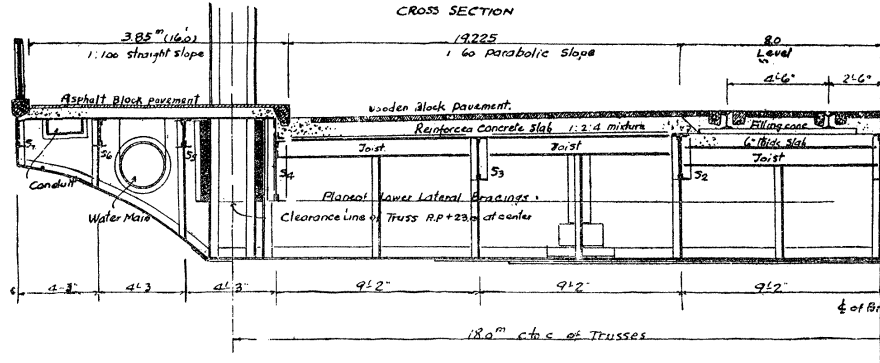
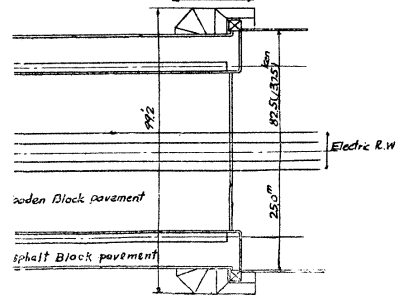
Top chord  
 1 cov. pl  $42" \times \frac{3}{8}$   
 1 cov. pl  $42" \times \frac{3}{8}$   
 2 web pls  $33" \times \frac{3}{8}$   
 2 side pls  $27" \times \frac{3}{8}$   
 2 side pls  $21" \times \frac{3}{8}$   
 2 side pls  $31" \times \frac{3}{8}$   
 266"

Lower chord  
 4 web pls  $30" \times \frac{3}{8}$   
 4 Ls  $6" \times \frac{3}{8}$   
 2 side pls  $18" \times \frac{3}{8}$   
 2 side pls  $28" \times \frac{3}{8}$   
 4 side pls  $6" \times \frac{3}{8}$   
 202"

Tie  
 5 web pls  $36" \times \frac{3}{8}$   
 5 web pls  $36" \times \frac{3}{8}$   
 2 Ls  $6" \times \frac{3}{8}$   
 2700"

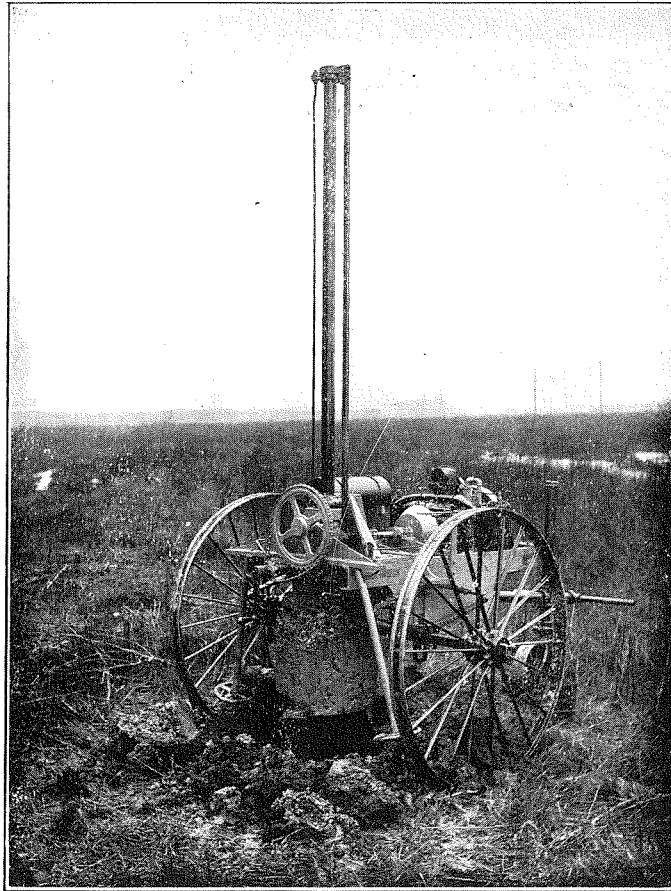
End Post  
 4 web pls  $38" \times \frac{3}{8}$   
 4 Ls  $6" \times \frac{3}{8}$   
 2 side pls  $21" \times \frac{3}{8}$   
 2 side pls  $31" \times \frac{3}{8}$   
 2100"

Diagonal  
 2 web pls  $27" \times \frac{3}{8}$   
 2 Ls  $6" \times \frac{3}{8}$   
 2 side pls  $15" \times \frac{3}{8}$   
 778.0"



Max W of one piece 18. ton about  
 max. plate  $42 \times \frac{3}{8} = 15.75"$  (大鋼板)  
 Volume of concrete 630  $\text{m}^3$   
 Weight of Reinforcement 65 ton  
 Max grip of Rivet 6" of Rivet used.

# BUDA-HUBRON EARTH DRILL



詳細四一—四二頁御参照

瞬間に直径 22 吋深さ 6 尺の孔を穿掘する至便なるアース・ドリルで孔掘り能率の増進と経費節減は本機の使命であります。

*The Buda Company*

東洋總代理店

株式會社 **アンドリュウス商會**

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名古屋・小倉・札幌・京城・大連・紐育

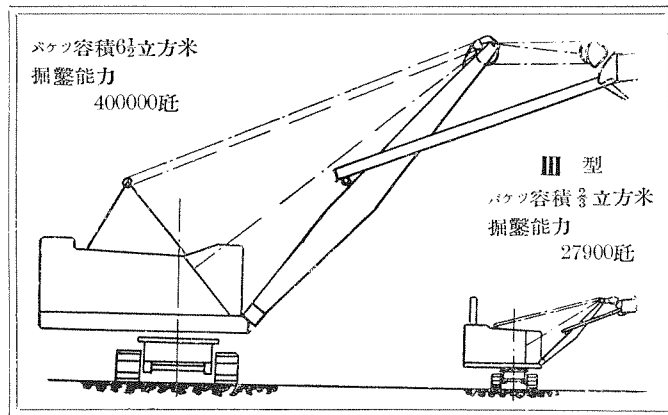


メンク ウンド ハンプロツク會社製

カタピラ附

# 特許メンク掘鑿機

各型共動力  
蒸氣・潤滑油・電氣



總代理店



シーメンス、シュツケルト電氣株式會社

鐵材部

東京—大阪

目下宣傳ノ目的ヲ以てメンク、ウンド、ハンプロツク會社ヨリ専門  
技師弊社ニ派遣セラレ居候間御遠慮ナク御利用被下度候