

SKETCH SHEWING ARRST OF GEAR WHEEL, PINIONS & ROTORS.
ONE SET COMPLETE AS DRAWN.

SERVICE SHP = 6600 @ 92 R.P.M. FOR GEAR WHEEL, 1814 R.P.M. FOR ALL PINIONS.

OVERLOAD SHP = 7260 @ 95 " " " " 1872 " " " "

MAX. AST^N SHP = 4650

H.P., I.P. & L.P. AHEAD TURBINES ARE ALL DESIGNED TO DEVELOP EQUAL POWERS, I.E. 2200 SHP, ON SERVICE.

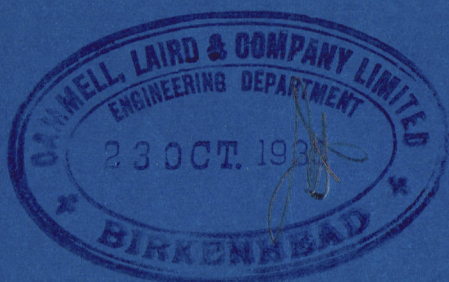
MATERIALS:- ROTOR SHAFTS: FORGED STEEL. U.T.S. 34-38 TONS/IN². ELONG^T 23%. BENDING ANGLE 180°.

PINIONS: OIL HARDENED & TEMPERED NICKEL STEEL. NICKEL 3.25% TO 3.75%, CARBON .27% TO .35%. U.T.S. 40 TO 45 TONS/IN². ELONG^T 23% LONGITUDINAL & 16% TRANSVERSE. BENDING ANGLE 180°.

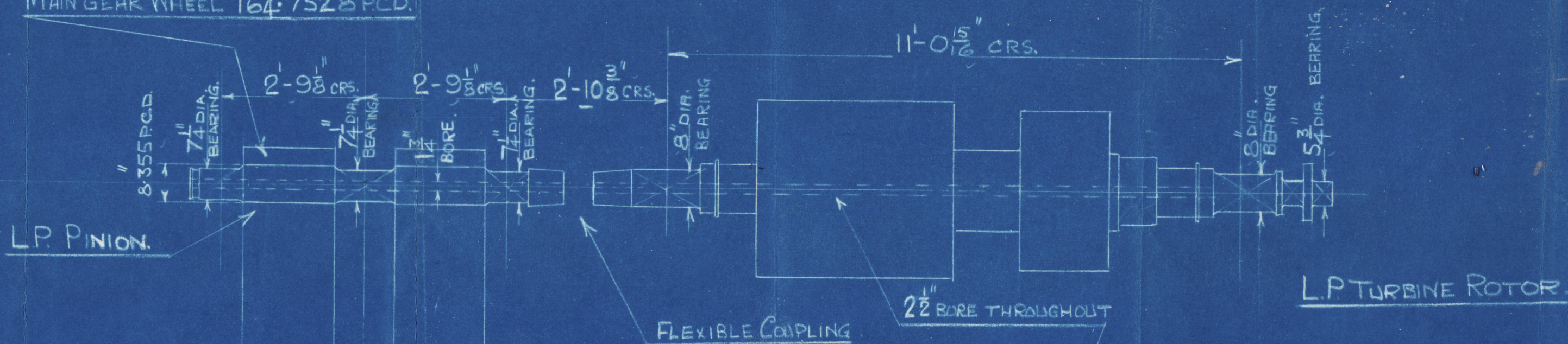
GEAR WHEEL SHAFT & RIMS: FORGED STEEL. U.T.S. 31-35 TONS/IN². ELONG^T 26%. BENDING ANGLE 180°.

THE MATERIAL IN ALL RESPECTS TO BE EQUAL TO B.O.T. & LLOYDS REQUIREMENTS.

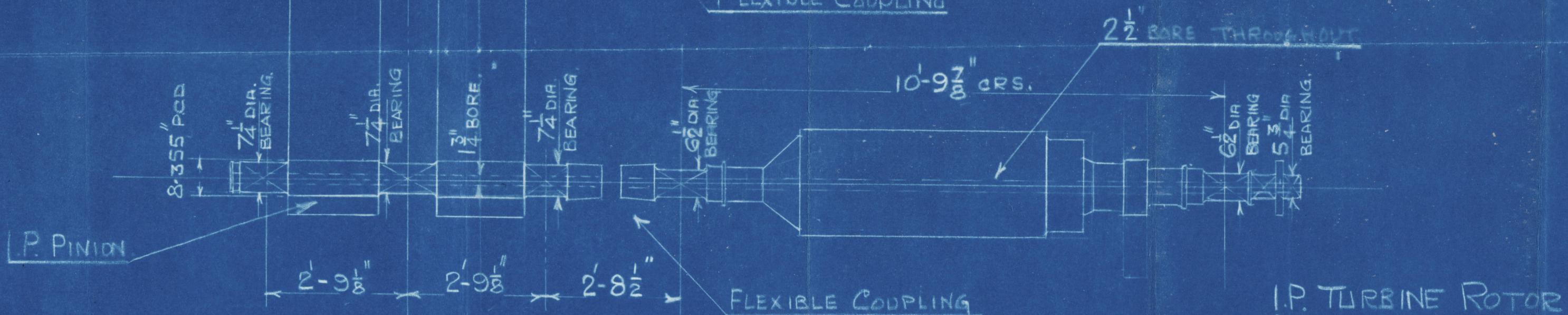
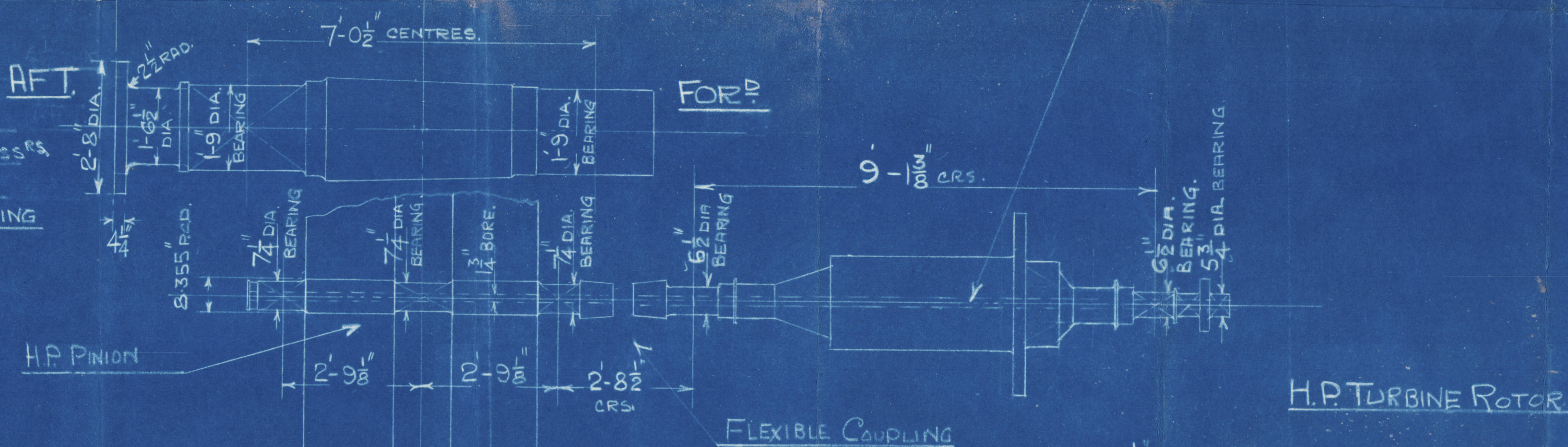
B9533



MAIN GEAR WHEEL 164.7528 PCD.



BOLTING WILL BE
SUBMITTED BY MESSRS.
BARCLAY CURLE
FOR ALL SHAFTING

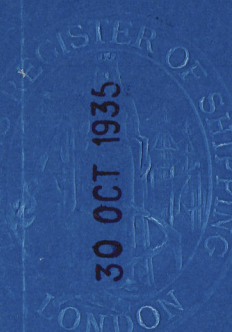


DRAWN BY R.M. 21-10-35
CHECKED BY. QHR 22-10-35

SCALE: 1/2" = 1 FOOT

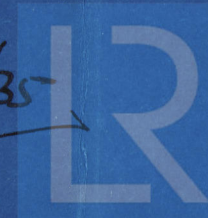
ENGINES N° 2193

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W.J.F.
29/10/35

J.M.
24/10/35



Lloyd's Register
Foundation
0369-0124

Lammell Laird & Co's
Engines 2193

Arrangement of Gear Wheel,
Pinions & Rotors

S. S. "City of Benares"

LIVERPOOL

Report No. 107460

RETAIN



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Foundation
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