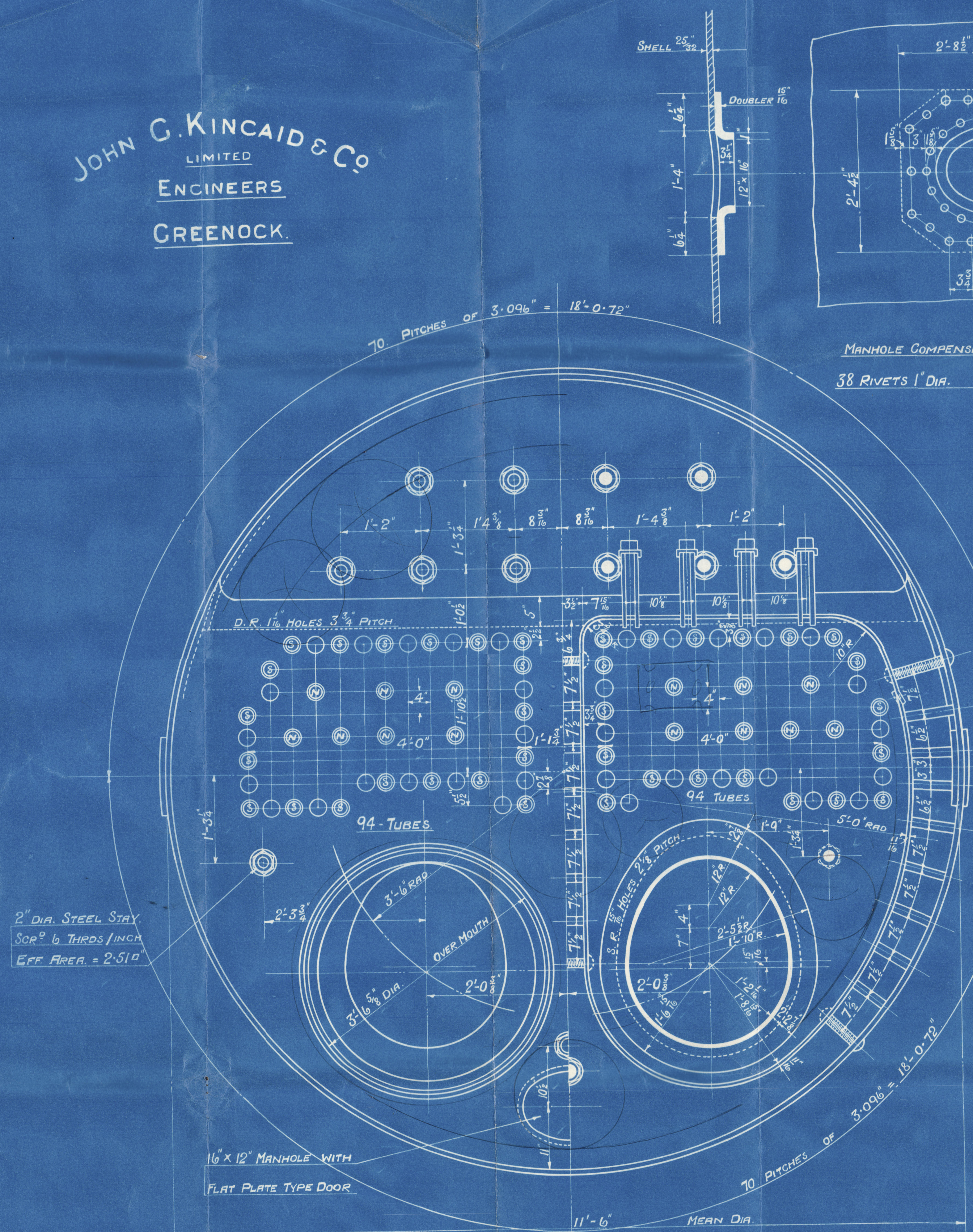


JOHN G. KINCAID & CO.
LIMITED
ENGINEERS
GREENOCK.



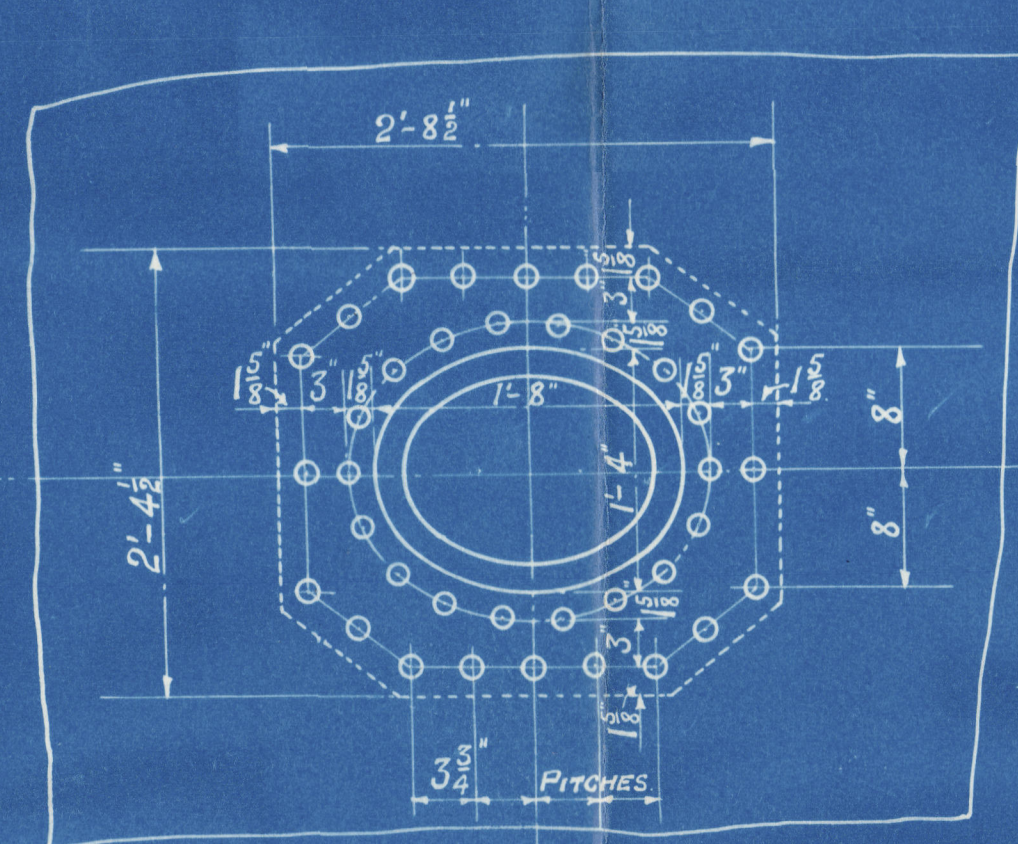
ALL PLATES, STAYS & RIVETS OF SIEMENS MARTIN MILD STEEL
TUBES OF LAP WELDED WROUGHT IRON
LONGITUDINAL SEAMS, DOUBLE BUTT STRAPS, TREBLE RIVETED
CIRCUMFERENTIAL SEAM, DOUBLE RIVETED LAP.
WORKING PRESSURE 150 LBS./SQ.
TEST PRESSURE 275 LBS./SQ.
ALL RIVET HOLES DRILLED AFTER PLATES ARE BENT
THEN PLATES TAKEN APART & BURRS REMOVED
RIVETING BY HYDRAULIC PRESSURE WHERE PRACTICABLE

7431
A.M.M.
J.H.M.
A.M.M.
5-4-30

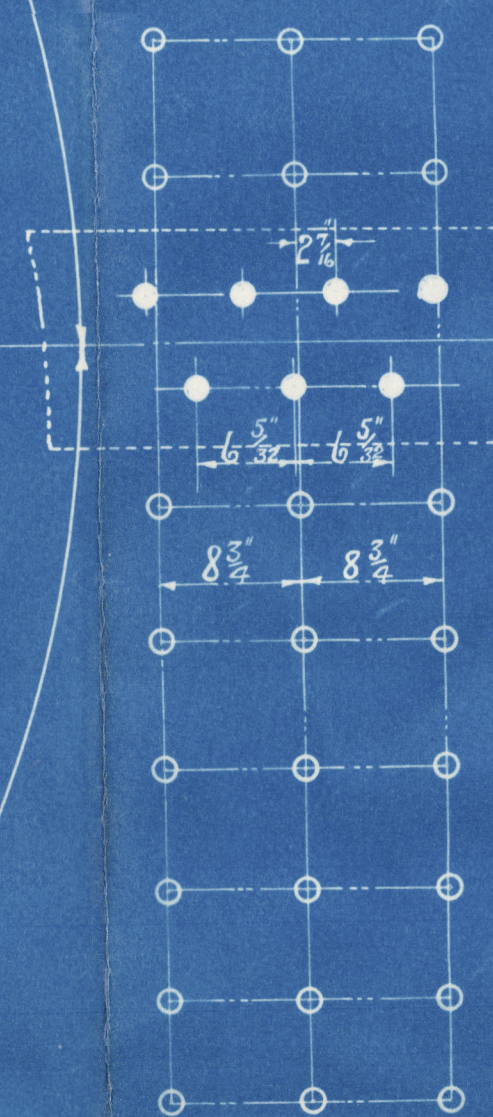
STRENGTH OF MATERIALS		
	THICKNESS	TENSILE LIMITS
SHELL PLATES	3/32	29-33 TONS/SQ.
INNER BUTT STRAP	3/4	" " " "
OUTER " "	5/8	" " " "
GIRDER PLATES	3/4	" " " "
BACK TUBE PLATES	1/4	26-30 " "
C.C. BACKS	1/10	" " " "
WRAPPERS	1/16	" " " "
FURNACES	7/16	" " " "
COMPENSATING RING	1/32	" " " "
TOP ENDS	15/32	" " " "
FRONT BOTTOM ENDS	29/32	" " " "
BACK " "	7/8	" " " "
COVER PLATE	7/8	" " " "
COMBUSTION STAYS	-	" " " "
RIVET BARS	-	" " " "
LONGITUDINAL STAYS	-	28-32 " "

HEATING SURFACE	SQ. FT.
188 TUBES 2 1/2" EXT. DIA	1037
FURNACES	185
COMBUSTION CHAMBERS	167
TOTAL HEATING SURFACE	1389
AREA THRO' TUBES	598

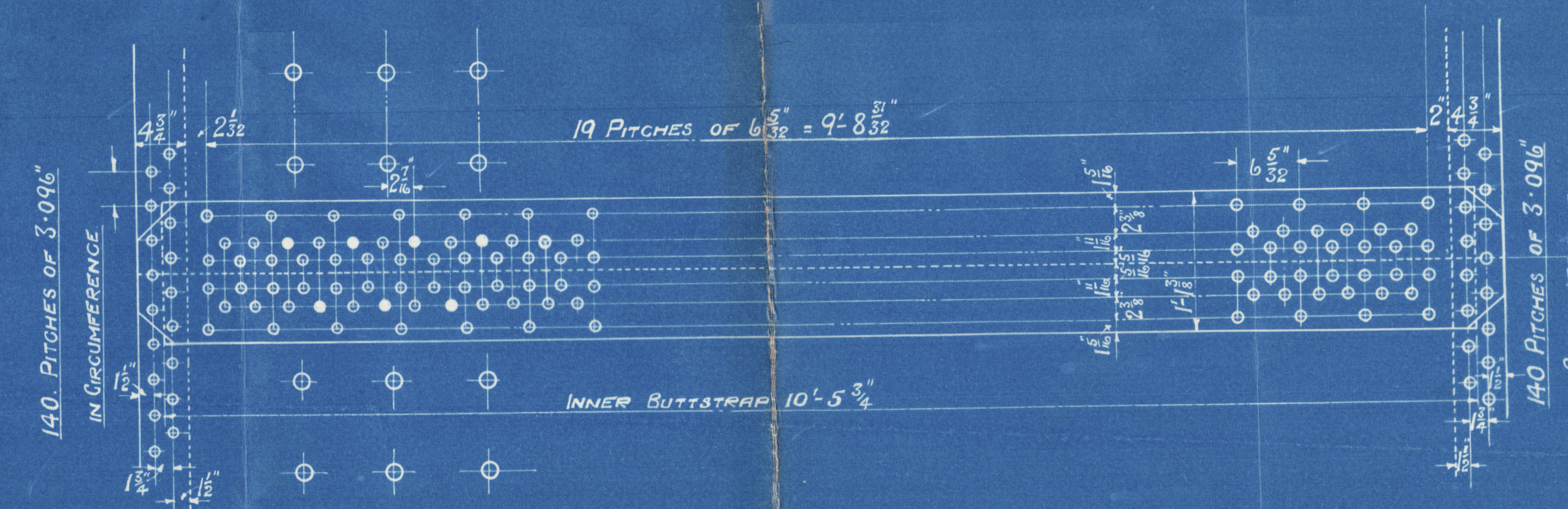
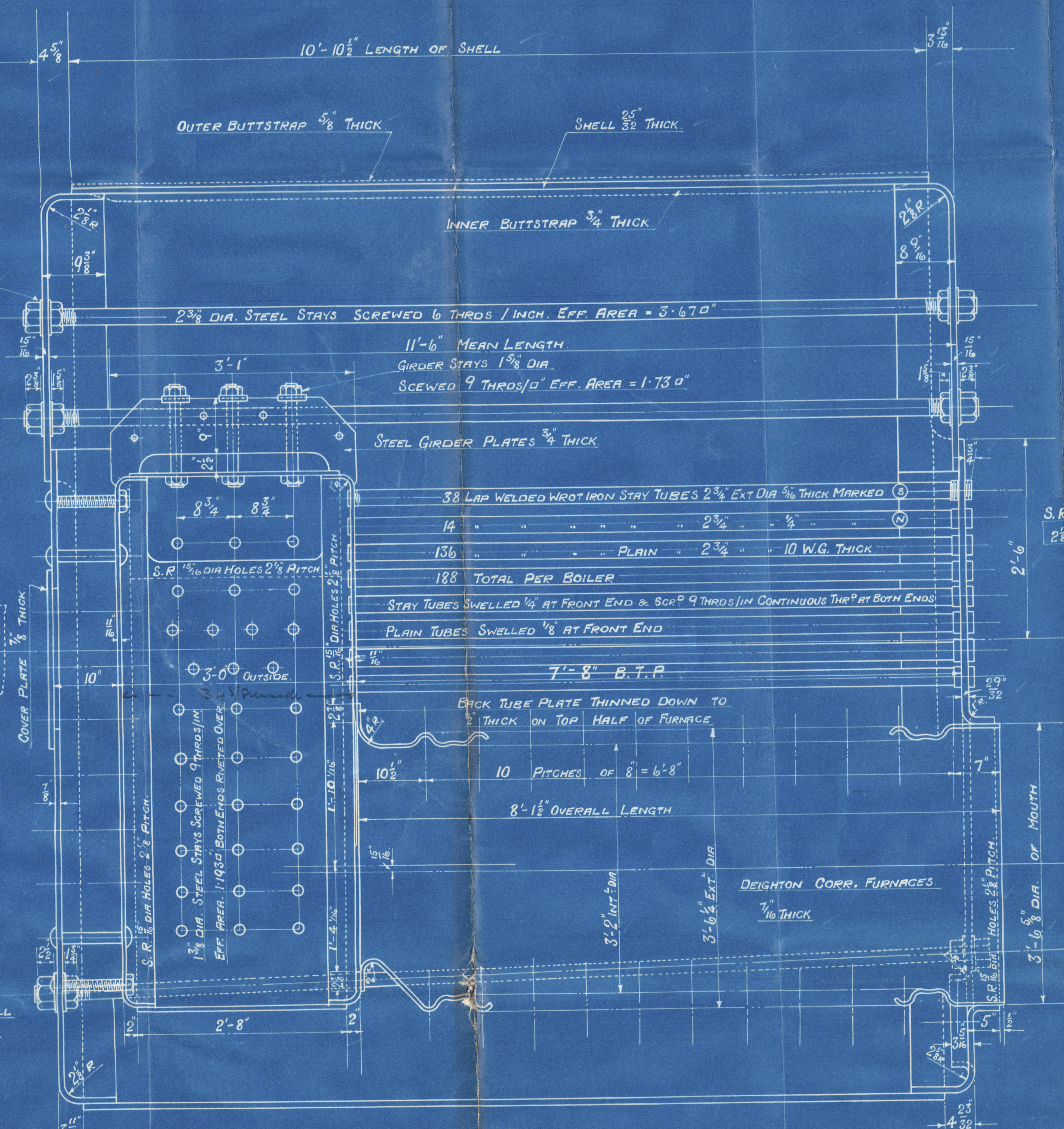
BOILER TO BE OIL BURNING
WITH FORCED DRAUGHT



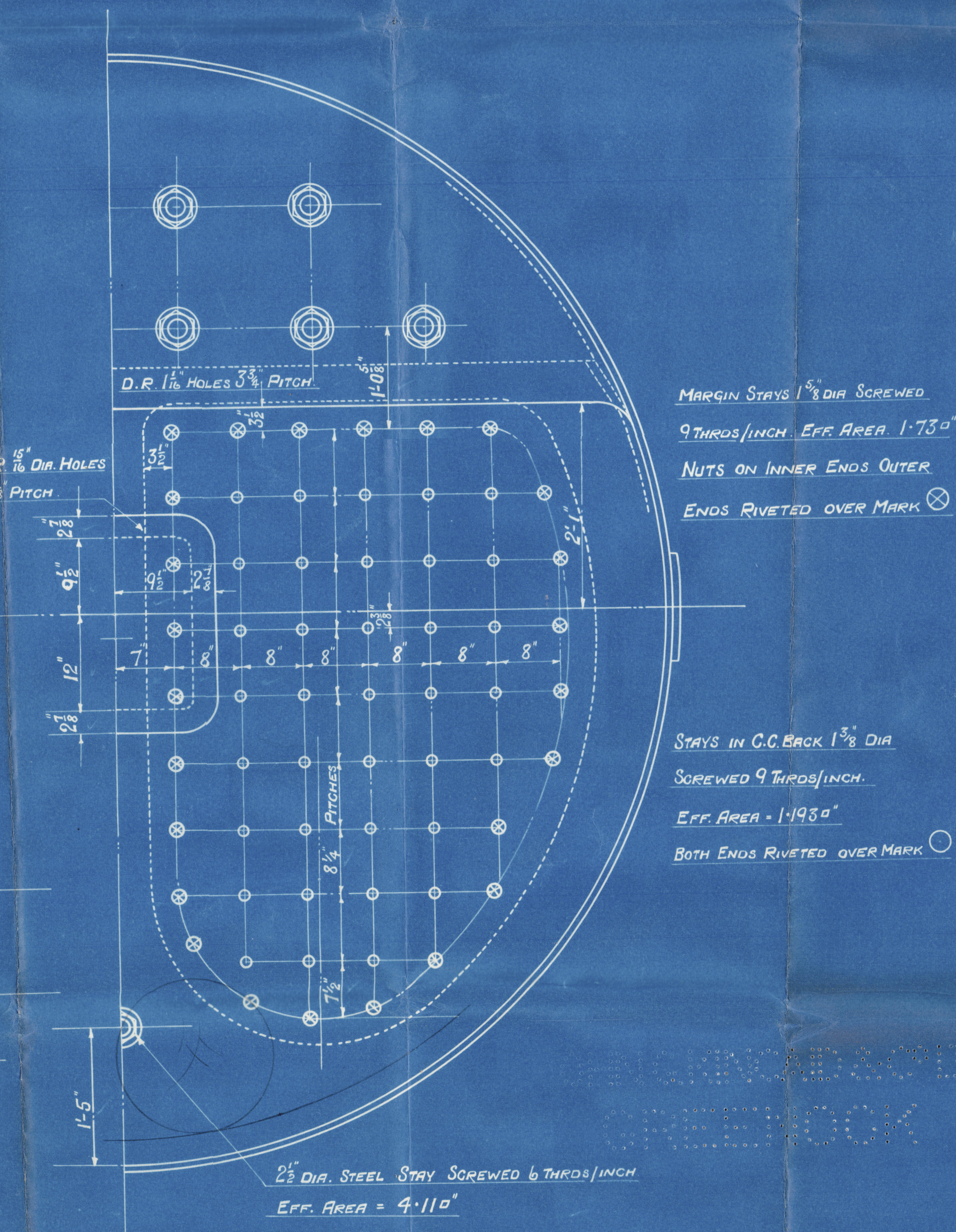
MANHOLE COMPENSATION PLATE
38 RIVETS 1" DIA. 1 1/8" DIA. HOLES



STAYS BETWEEN C.C. & SHELL
1 1/2" DIA. SCREWED 9 THRS/INCH
EFF. AREA 1.193 SQ.
BOTH ENDS RIVETED OVER



	DIA. OF RIVET	DIA. OF HOLE	PITCH	PLATE %	RIVET %	COMBINED % W.P. OF SHELL BY RULE
LONGITUDINAL SEAM	3/32	27/32	6 3/32	86.2	86.5	89.7
CIRCUMFERENTIAL	7/8	15/16	3.096	69.6	45.2	-



BOILER. DIESEL ENC. NOS K.G2-3-4-7/R.

11'-6" MEAN DIA X 11'-6" MEAN LENGTH 150 LBS/SQ. W.P.

TO PASS LLOYDS TESTS & REQUIREMENTS

ONE OFF THIS PER SHIP

SCALE:- 1"=1 FOOT.

1162. Liffymore 849
1163. Greenock Railway 121
1164. Liffymore 850
1165. Greenock Railway 122

JOHN G. KINCAID & CO. LTD.
(DRAWING OFFICE)
GREENOCK
ENGINEERS & SHIPBUILDERS

4TH APRIL 1930.

DRC. NO 7431.

W.S. 19

W1140-0116

Macaulay's Arch. Review P. 1762-3-4-5

N.P. 150

K.63.

W.S. 19

M.V. "British Resource" X

Arch. 1st Entry Report P. 19323

K.67

M.V. "British Energy"

Arch. 1st Entry Report P. 19324

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10 APR. 1930
ENGINEERS & BOILERMAKERS.
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