

Notes sent ship  
allied by R.N.B.  
28.6.09.

THICKNESS OF PLATES

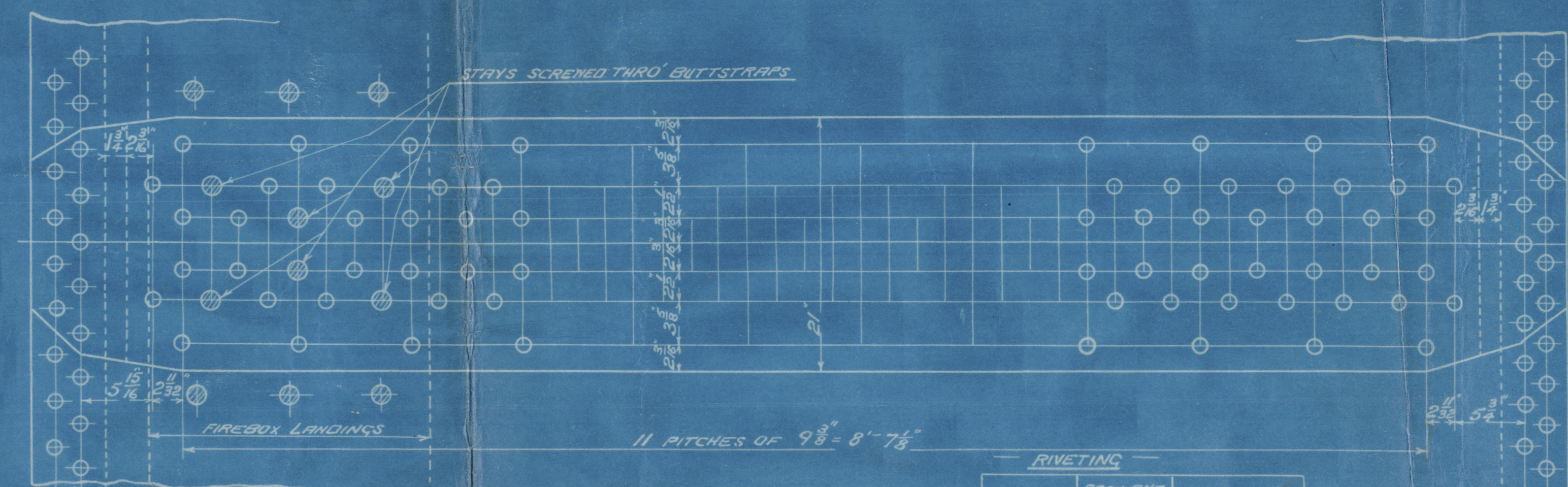
SHELL	1 1/2"
BUTTSTRAPS (INNER)	1"
" (OUTER)	1 1/2"
GIRDERS	1 1/2"
COMPENSATING RING	1 1/2"
TOP ENDS (FRONT & BACK)	1 1/2"
BOTTOM END (FRONT)	1 1/2"
" (BACK)	1 1/2"
FIREBOX TUBE PLATE	1 1/2"
" BACK	1 1/2"
" WRAPPER	1 1/2"
" BOTTOM	1 1/2"
FURNACES	1 1/2"

SURFACES

	ONE BOILER	3 BOILERS
TUBES	1970	5910
FIREBOX TOP & SIDES	138	414
" BACK	71	213
" TUBE PLATE	51	153
FURNACES	143	429
TOTAL HEATING SURFACE	2373	7119
GRATE AREA (5"6" BARS)	56.5	169.5
TUBE AREA	926	2778
WATER	145	435
STEAM SPACE	398	1194
GRATE AREA HEATING SURFACE	1 : 42	
" TUBE	1 : 34.9	
" WATER	1 : 2.56	
" STEAM SPACE	1 : 7.05	
1/2 BOILER ABOVE FIREBOX	31	
WEIGHT OF WATER	23 TONS	69 TONS

7/16/09  
TOMLON

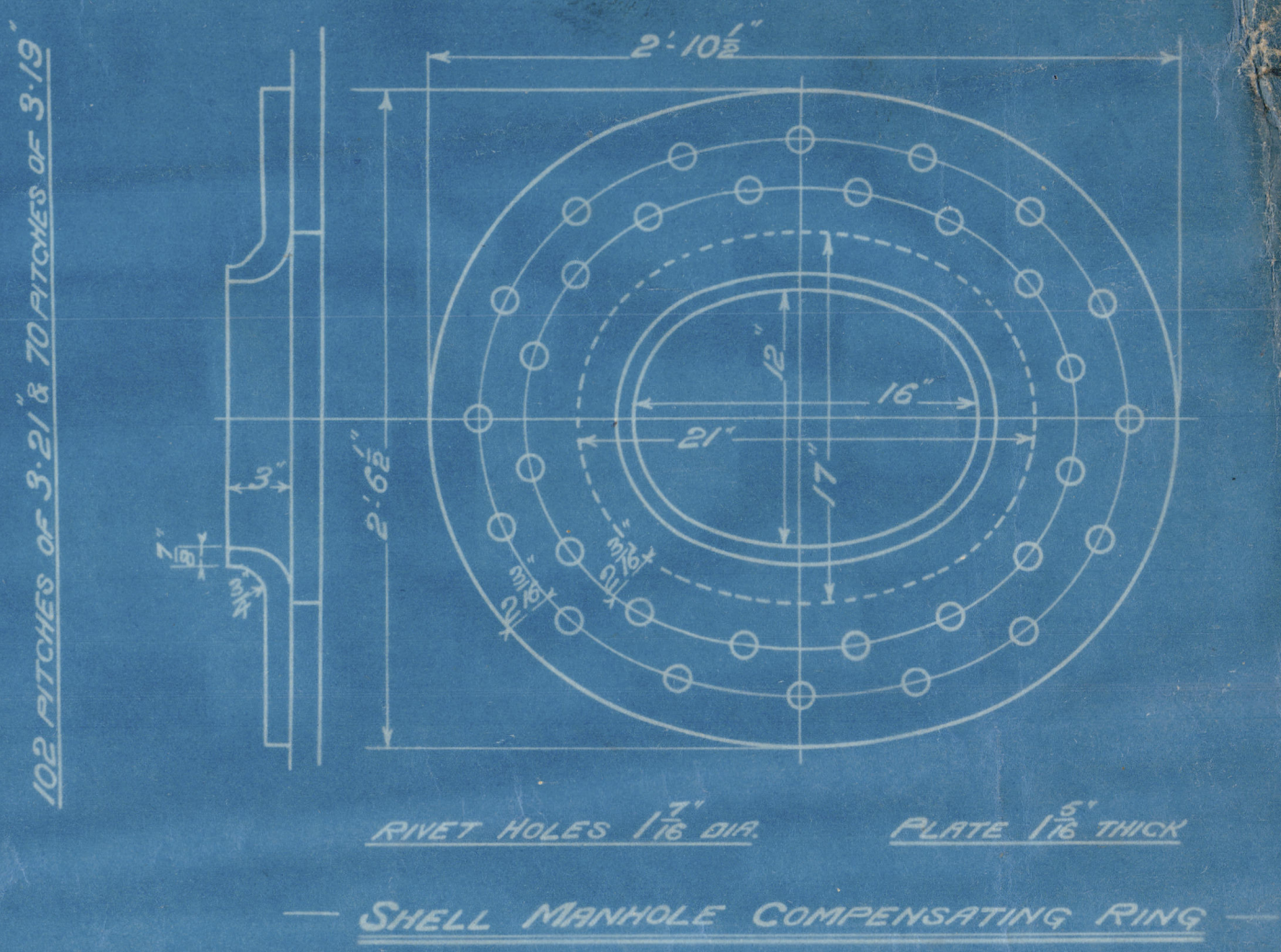
BACK END CIRC.  
148 PITCHES OF 3.72"



RIVETING

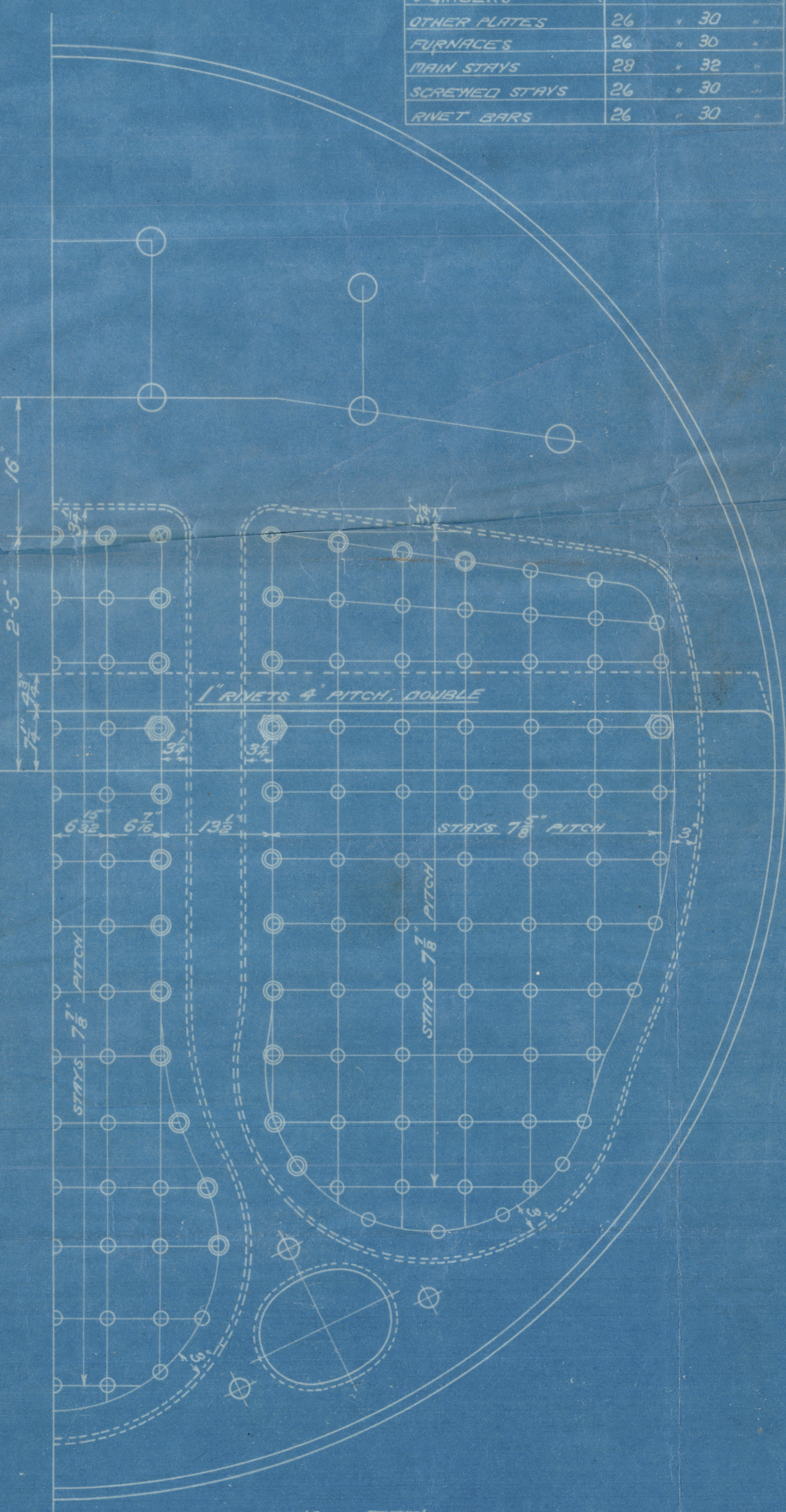
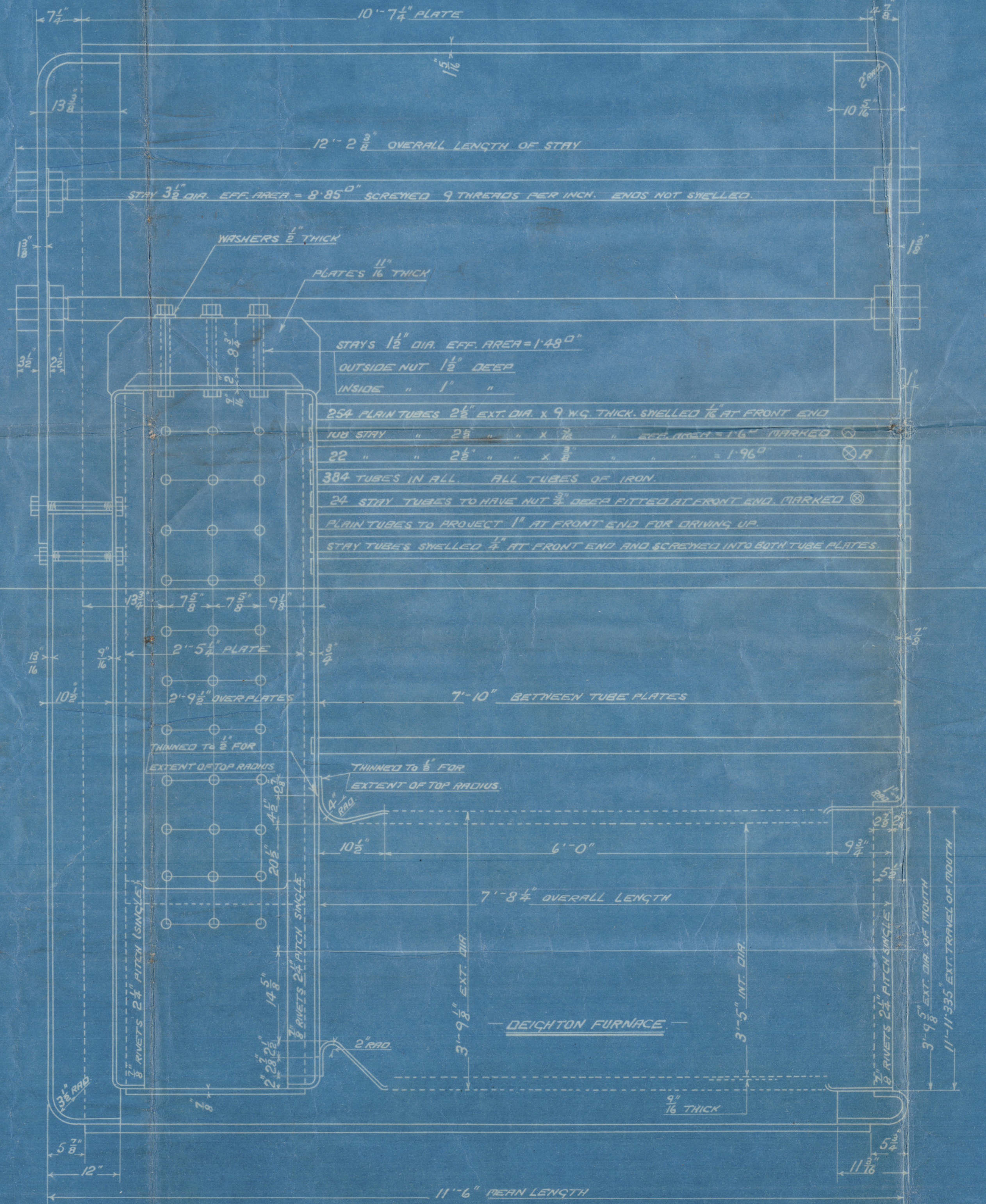
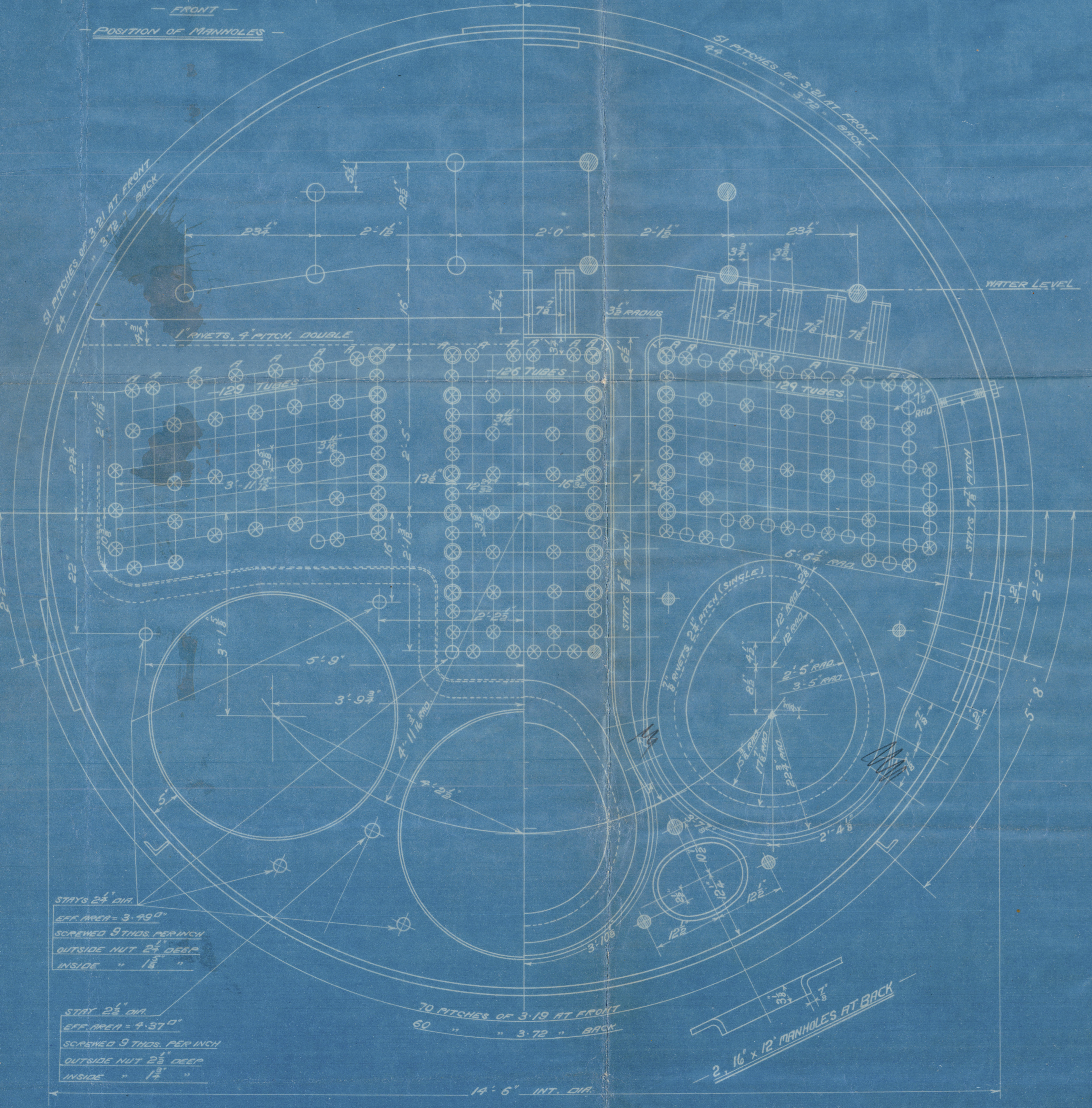
LONG L	BACK END CIRC L	FRONT END CIRC L
1 1/2"	1 1/2"	1 1/2"
PITCH	7 1/8"	3 21" & 3 19"
1/2 PLATE	82.6	63 & 62.7
1/2 RIVET	98	44 2 1/2 44 9 44 1/2 44 6 44 2 1/2

ALL PLATES & RIVETS OF SIEMENS-MARTIN STEEL  
ALL RIVET HOLES DRILLED IN PLACE



LIMITS OF TENSILE STRENGTH

SHELL BUTTSTRAPS & GIRDERS	28.4 to 32 TONS
OTHER PLATES	26 to 30
FURNACES	26 to 30
MAIN STAYS	28 to 30
SCREENED STAYS	26 to 30
RIVET BARS	26 to 30



FIREBOX STAYS - STEEL

POSITION	MARK	DIA	EFF AREA
FIREBOX TOP SIDES & BACK	○	1 1/2"	1.48 sq"
" BACK OUTER ROWS	○	1 1/2"	2.07 sq"
" TOP CORNER	○	2"	2.75 sq"

MAIN BOILER  
3 OFF  
CON<sup>2</sup> N<sup>o</sup> 513

WORKING PRESSURE = 180 LBS PER SQ. INCH  
TO PASS LLOYD'S & BOARD OF TRADE SURVEYS  
SCALES, 1" & 1/2" = ONE FOOT.

ALL STAYS SCREENED THRU BOTH PLATES & NOT FITTED AT EACH END  
ALL 1 1/2" & 1 1/2" NUTS 1" DEEP EXCEPT ON GIRDER TOPS  
ALL 2" NUTS 1 1/2" DEEP



N 573-0035

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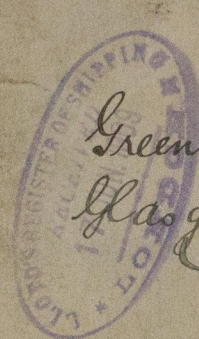
ENCLOSURE

FOR

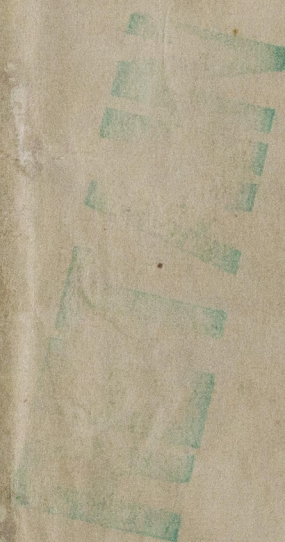
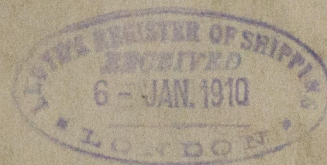
Messrs Lloyds Survey

2  
2  
500-005  
WS73-005  
315M

Boiler Plan  
D. Rawan to No. 513



S.S. "Kirkdale"  
Greenock Rht. N° 15699  
Glasgow " N° 28457



WS73-0035 1/2



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Lloyd's Register  
Foundation