

SURFACES	
TUBES	2400
FIREBOX TOP & SIDES	180
BACK	95
TUBE PLATE	63
FURNACES	180
TOTAL HEATING SURFACE	2918
GRATE AREA (5" O' BARS)	59.75
TUBE AREA	15.82
WATER	178.5
STEAM SPACE	406
GRATE AREA HEATING SURFACE	1:48.8
" " " TUBE	1:40.2
" " " WATER	3:76:1
" " " STEAM SPACE	1:10.15
% BOILER ABOVE FIREBOX	31.55
WEIGHT OF WATER	33 TONS

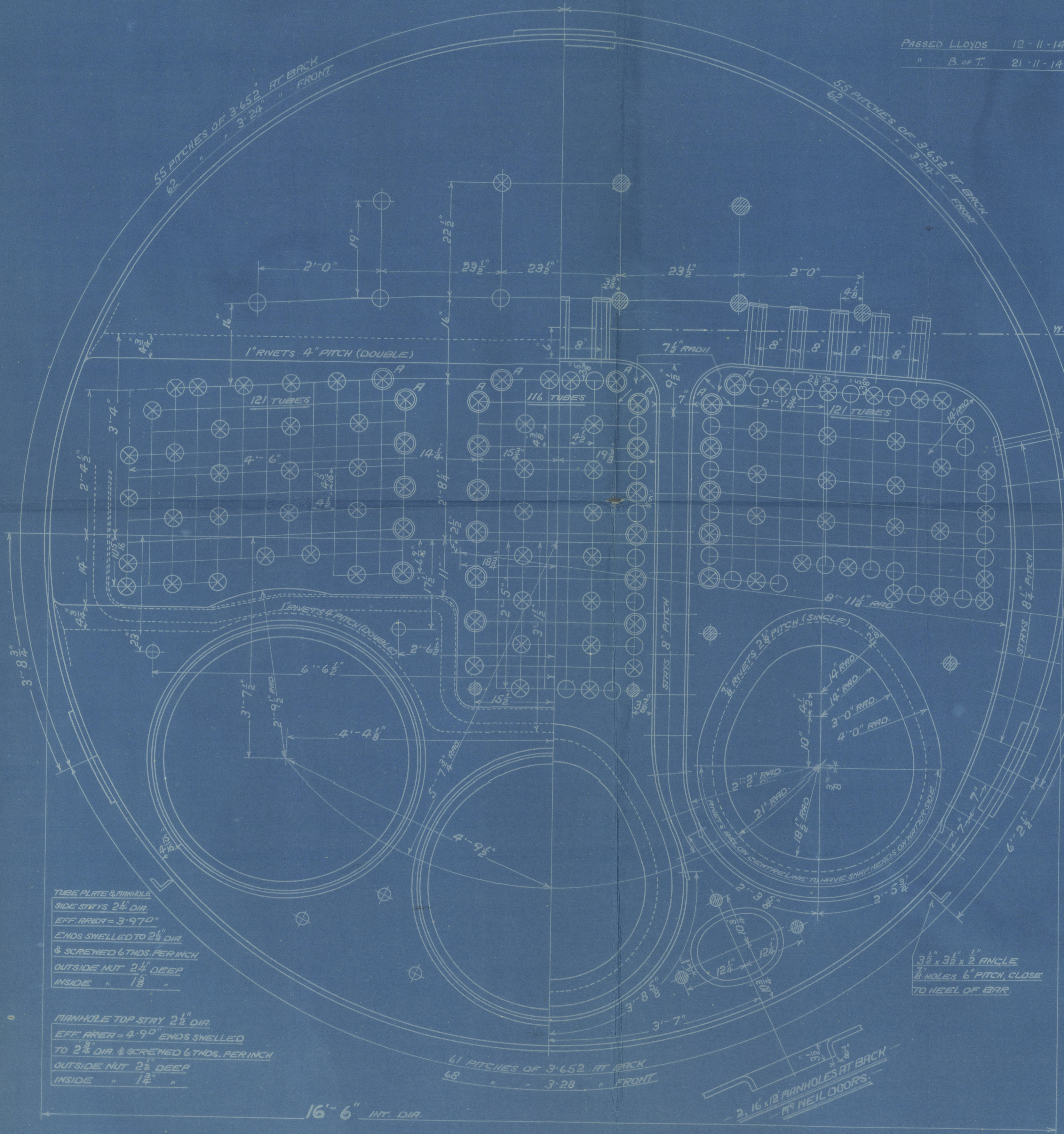
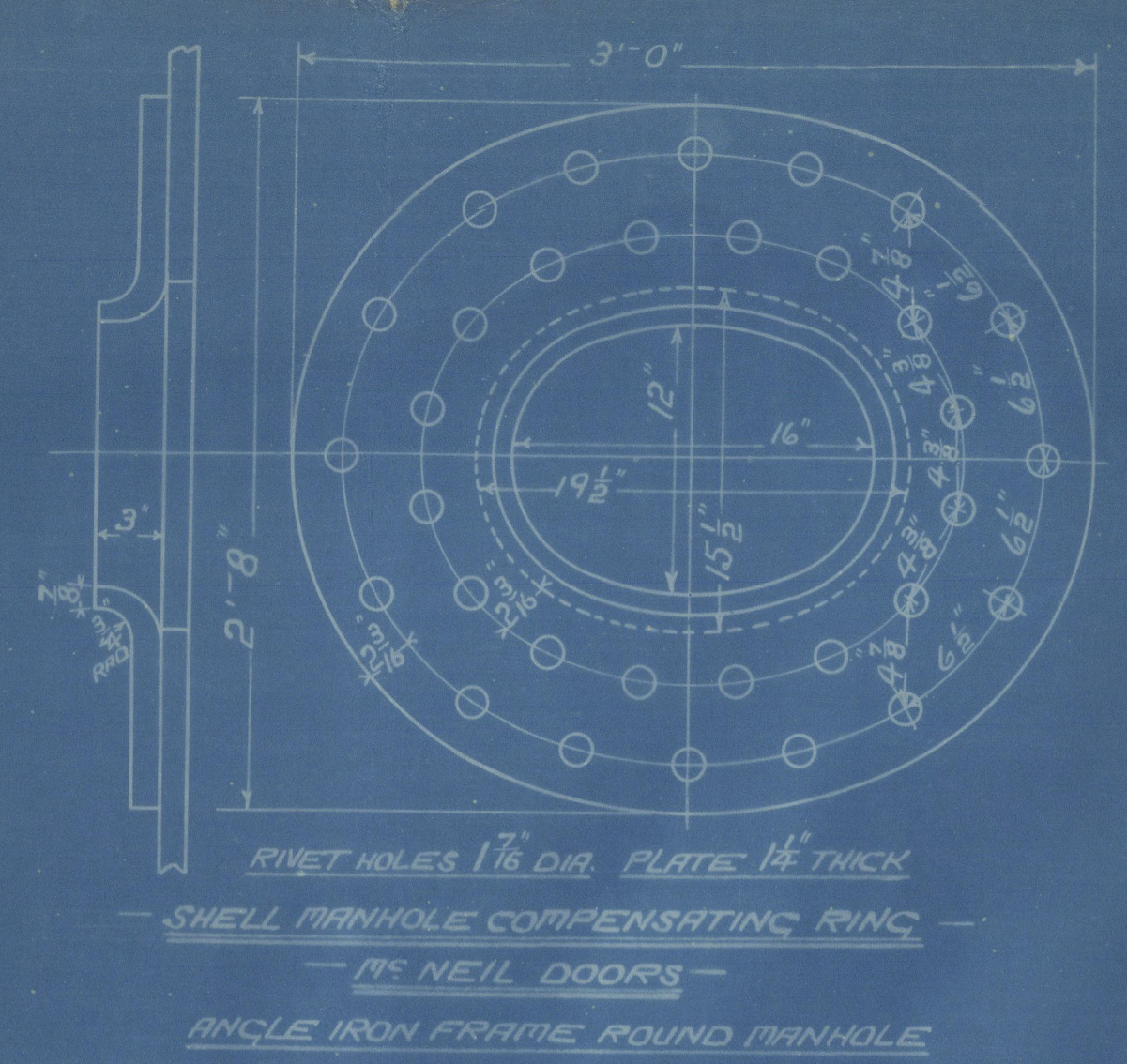
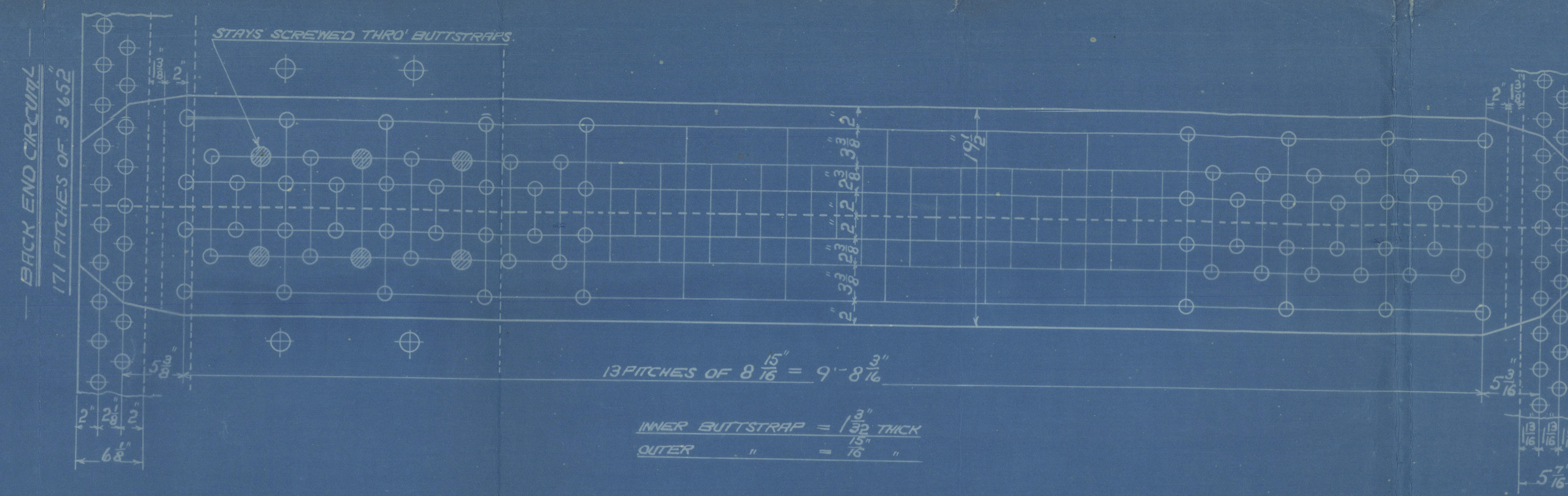
HEATING SURFACE CALCULATED TO 3" BELOW FURNACE CENTRE LINES.

RIVETING	
LONG ^L	BACK END CIRCUM ^L
RIVET HOLE DIA	1 1/8
PITCH	8 1/2
1/4 PLATE	6 1/2
% RIVET	90

LIMITS OF TENSILE STRENGTH & MATERIAL	
SHELL, BUTTSTRAPS AND GIRDER	28 TO 32 TONS
OTHER PLATES	26 TO 30
FURNACES	26 TO 30
MAIN STAYS	28 TO 32
SCREENED STAYS	
RIVET BARS	26 TO 30 TONS

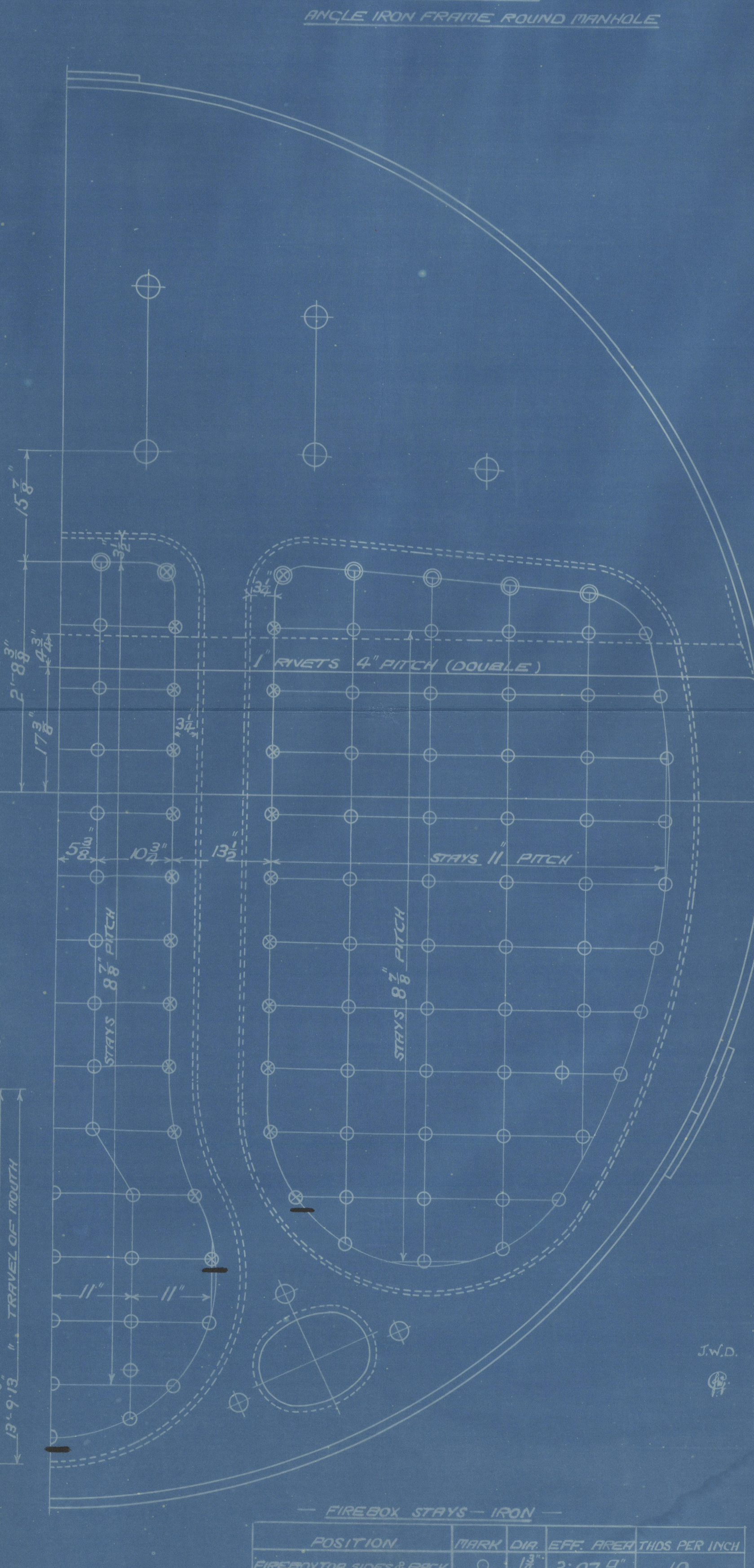
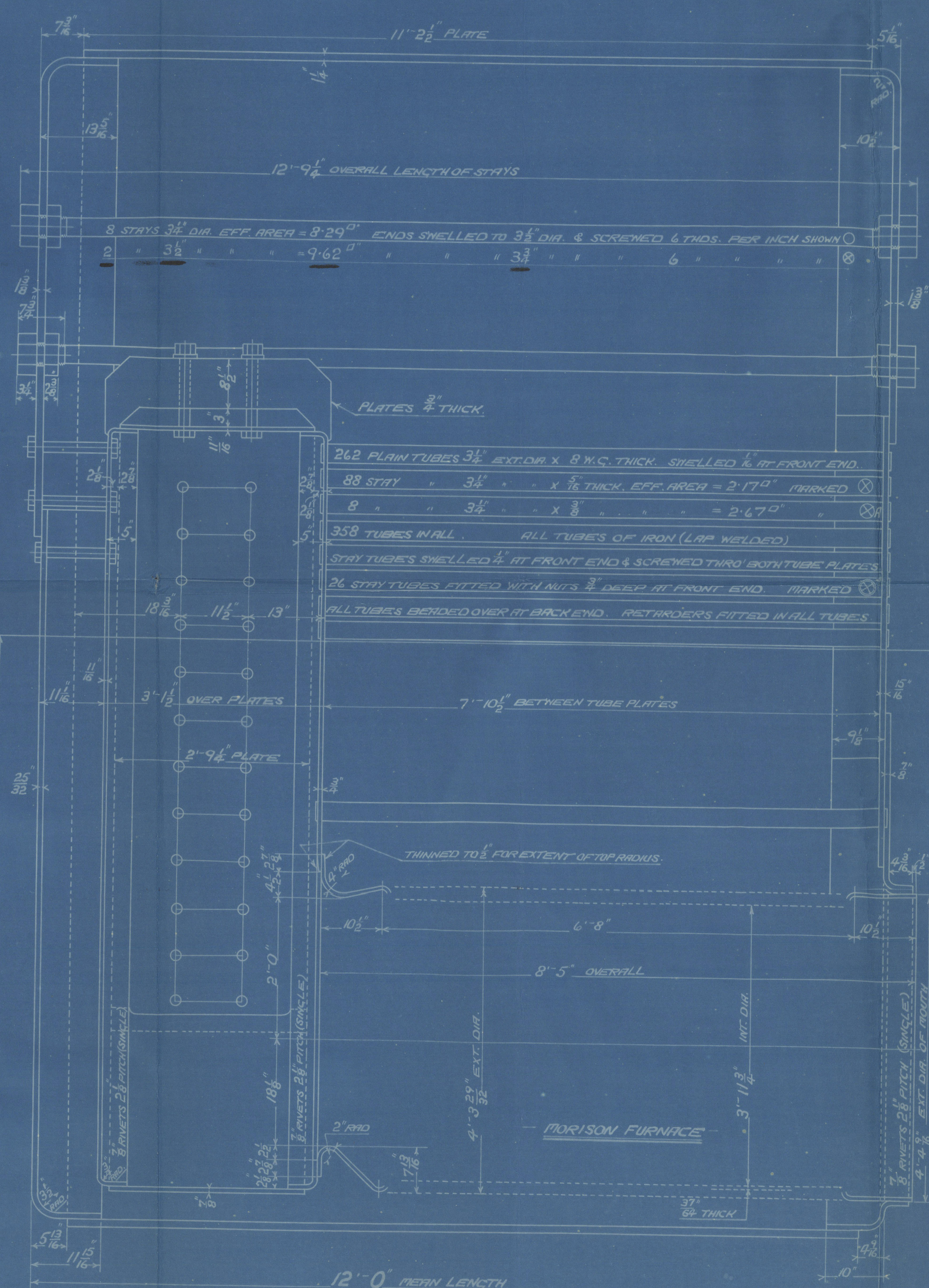
ALL RIVET HOLES DRILLED IN PLACE MAIN STAYS SHELLLED AT ENDS BY HYDRAULIC PRESSURE & ANNEALED

PASSED LLOYD'S 12-11-14
" B. or T. 21-11-14



TUBE PLATE MANHOLE
SIDE STAYS 2 1/2" DIA.
EFF. AREA = 3.970"
ENDS SHELLLED TO 2 1/2" DIA.
& SCREENED 6 THOS. PER INCH
OUTSIDE NUT 2 1/2" DEEP
INSIDE " 1 1/2"

MANHOLE TOP STAY 2 1/2" DIA.
EFF. AREA = 4.99"
ENDS SHELLLED TO 2 1/2" DIA. & SCREENED 6 THOS. PER INCH
OUTSIDE NUT 2 1/2" DEEP
INSIDE " 1 1/2"



FIREBOX STAYS - IRON			
POSITION	MARK	DIA	EFF. AREA THOS. PER INCH
FIREBOX TOP SIDES & BACK	○	1 1/8	2.07 1/2
" BACK WIDESPACES	○	1 1/8	2.39 5/8
" TOP ROW	○	2"	2.75 0"
" CORNER	○	2 1/2"	3.49 0"

ALL FIREBOX STAYS SCREENED THRU BOTH PLATES AND NOT FITTED AT EACH END EXCEPT STAYS FROM WING FIREBOX TO SHELL WHICH PROJECT 3 THRU SHELL AND ARE CRUILED.

ALL 1 1/8" NUTS 1" DEEP EXCEPT ON GIRDER TOPS WHERE THE OUTSIDE NUTS ARE 1 1/2" DEEP.

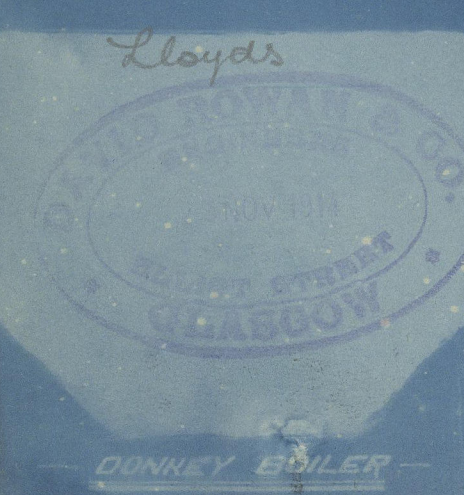
ALL 1 1/8" NUTS 1 1/2" DEEP.

ALL 2" & 2 1/2" NUTS 1 1/2" DEEP.

AUXILIARY BOILER
ONE OFF FOR EACH NUMBER
CON. NOS 634-635

TO PASS LLOYD'S SURVEY FOR 160 LBS PER SQ. INCH WORKING PRESSURE
TO PASS BOARD OF TRADE SURVEY FOR 150 LBS PER SQ. INCH WORKING PRESSURE
TO HAVE BOARD OF TRADE SPECIAL CERTIFICATE

SCALE 1/8" = 1' - ONE FOOT



OT 19087A
LLOYD'S REGISTER FOUNDATION

D. Rowan & Co
Auxiliary Boiler No 635 Duplicate of 612/634



RETAIN



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Lloyd's Register
Foundation

W843-0129