

DONKEY BOILER №49

WORK PRESS 100 LBS

BRITISH LLOYD'S TEST

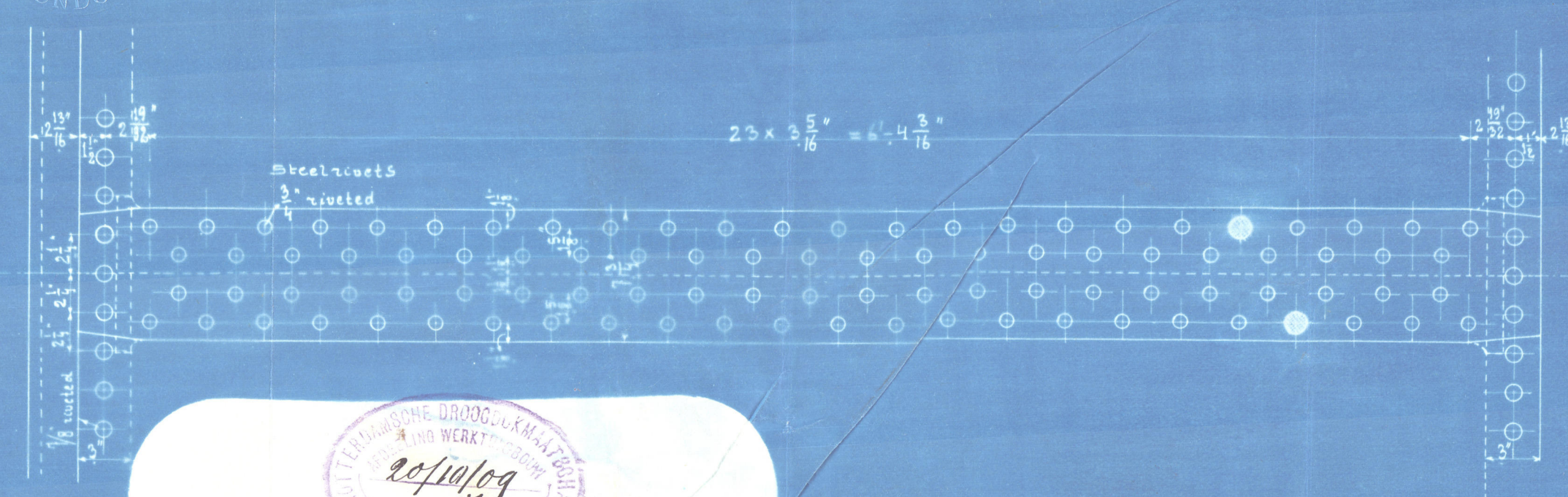
25/10/09

SCHAAL 1'S

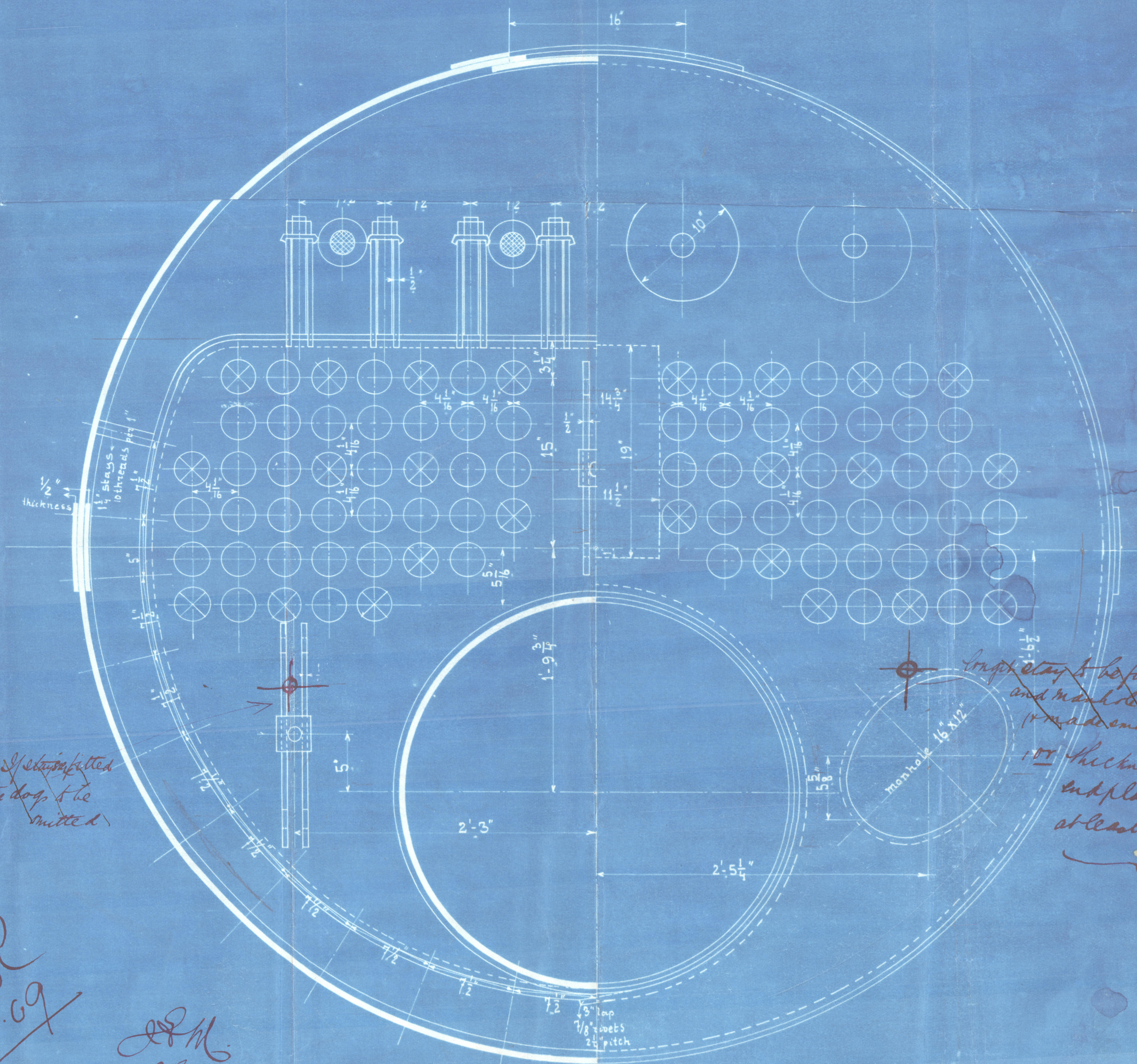
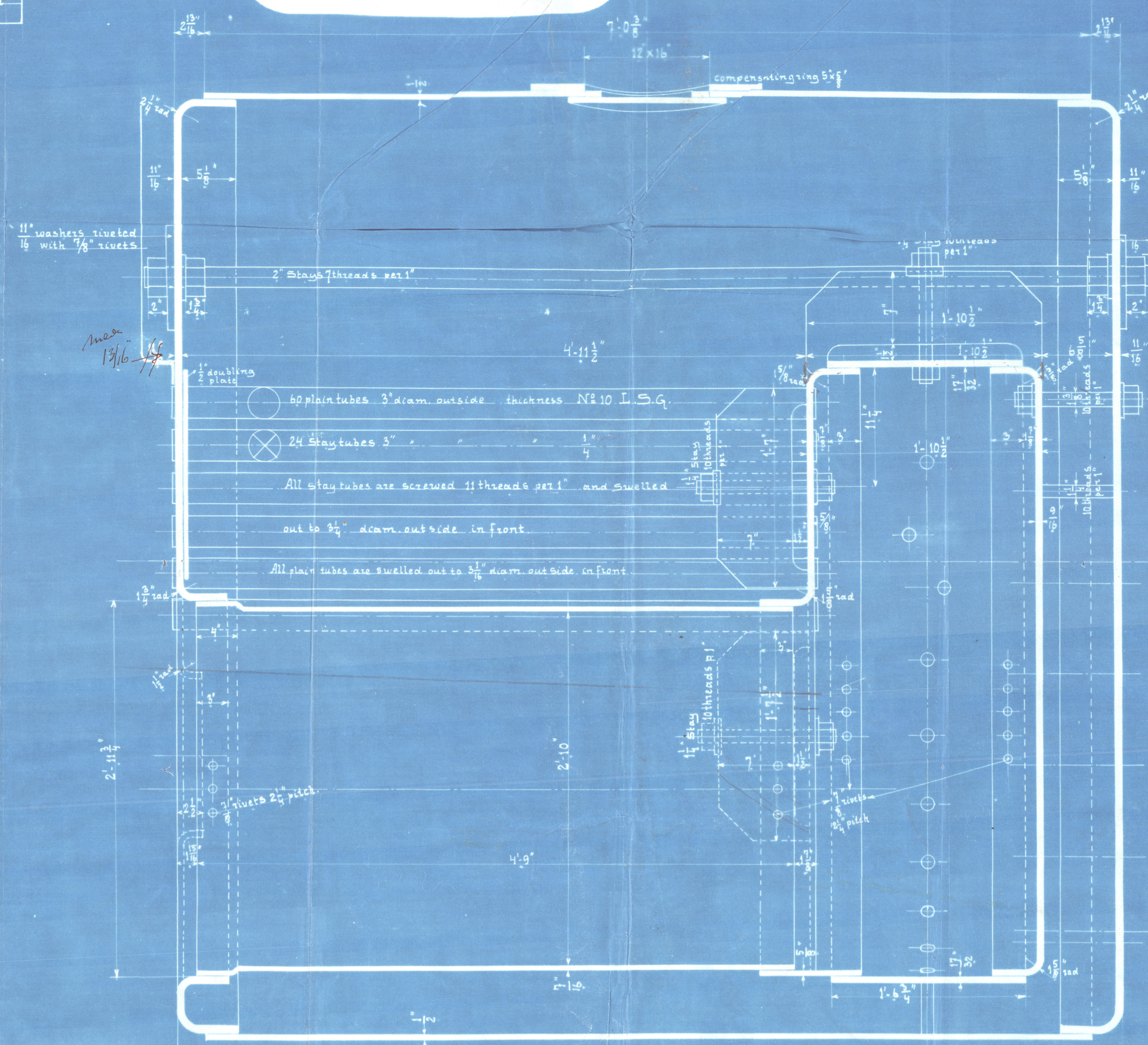
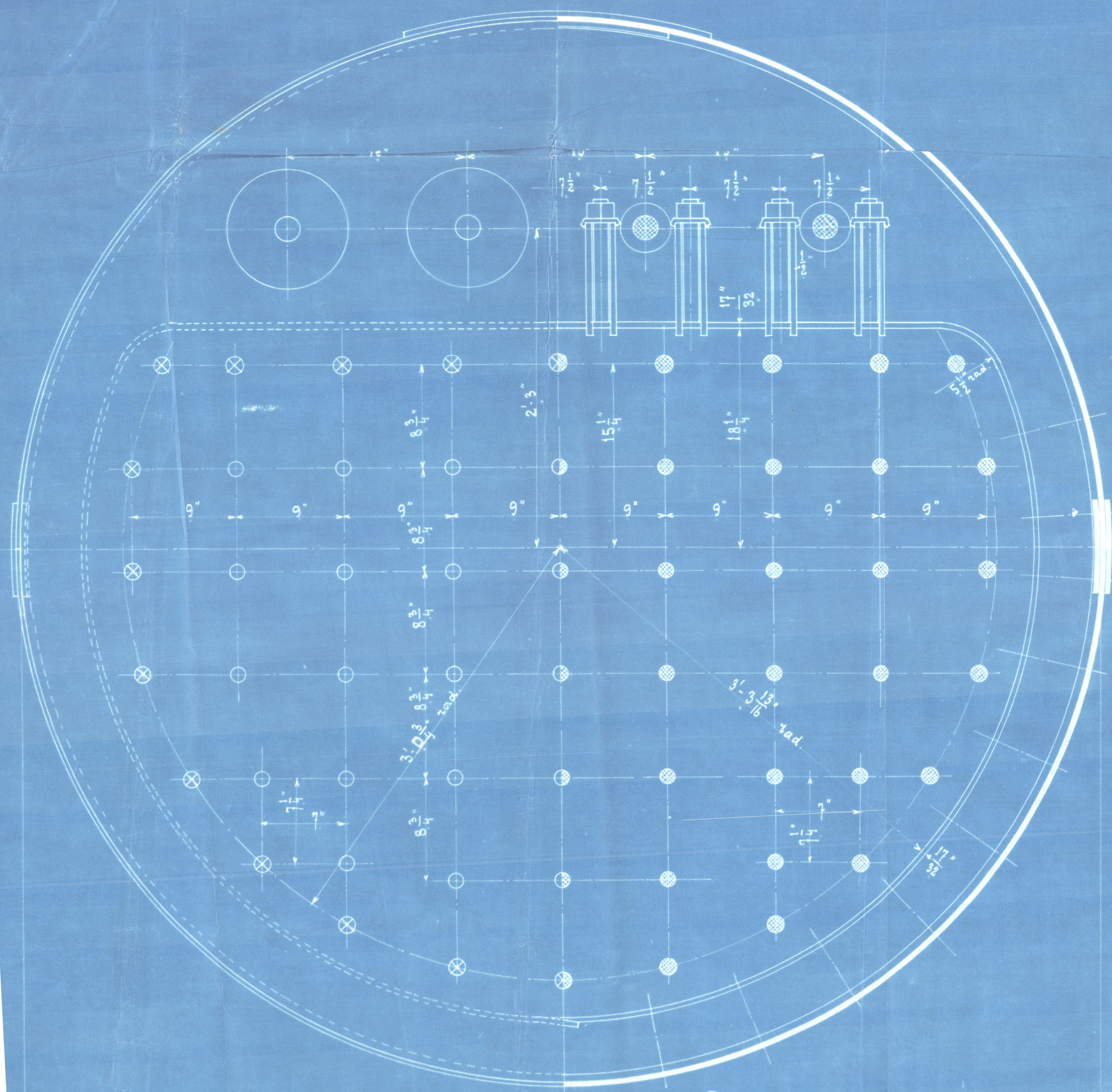
19-10-09

Thickness of Plates		
Shell	1 1/2"	Steel
Inset butt straps	1 1/2"	"
Over	1 1/2"	"
Top front and back	1 1/2"	"
Front tube plate	1 1/2"	"
Back tube plate	1 1/2"	"
Bottom back	1 1/2"	"
Furnace	1 1/2"	"
Top, sides and bottom of furnace	1 1/2"	"
Back	1 1/2"	"
Quads on	1 1/2"	"
Doubling front	1 1/2"	"

Surfaces		
84 Tubes 3" out diam. x 4' 11 1/2"	327 #	
1 Furnace	22 #	
1 Firebox	54 #	
Total	404 #	
Grate 2' 10" x 4' 3"	12 #	
Water surface with 8" on top furnace	45 #	
Steam space	48.6 cu. ft.	
Area through tubes	327 #	
Ratio grate to H.S.	1: 33.7	
" to tube surface	1: 27.25	
" to water surface	1: 3.75	
" to area through tubes	1: 0.272	
Weight of Boiler (base)		
" water per boiler	5000 KG.	
Ratio H.S. to tube surface	1: 0.808	



Material of Shell, straps and girders	28-32 tons p. a. 20% elongation on 8" length. S.M. Steel.
" furnace	26-30 " " 23 % " 8" " " "
" rest of plates	26-30 " " 23 % " 8" " " "
" tubes	26-30 " " 25 % " 8 diameters " " "
" combustion chamber stays	26-30 " " 23 % " 8 " " "
" longitudinal stays	28-32 " " 20 % " 8 " " "



APR 25-10-09

25/10/09

EXP 511

W1101-0109

S. S. Moordrecht
Donkey Boiler
Port. Rotterdam
Report No. 6655 ¹/₂



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Lloyd's Register
WIP 1-0109 1/2
Foundation

Rotterdamsche Droogdok-Maatschappij.

For Enclosure to

Lloyds Register

Rotterdam.

Date

20/10/09.

W1101-0109²/2