3/7/13

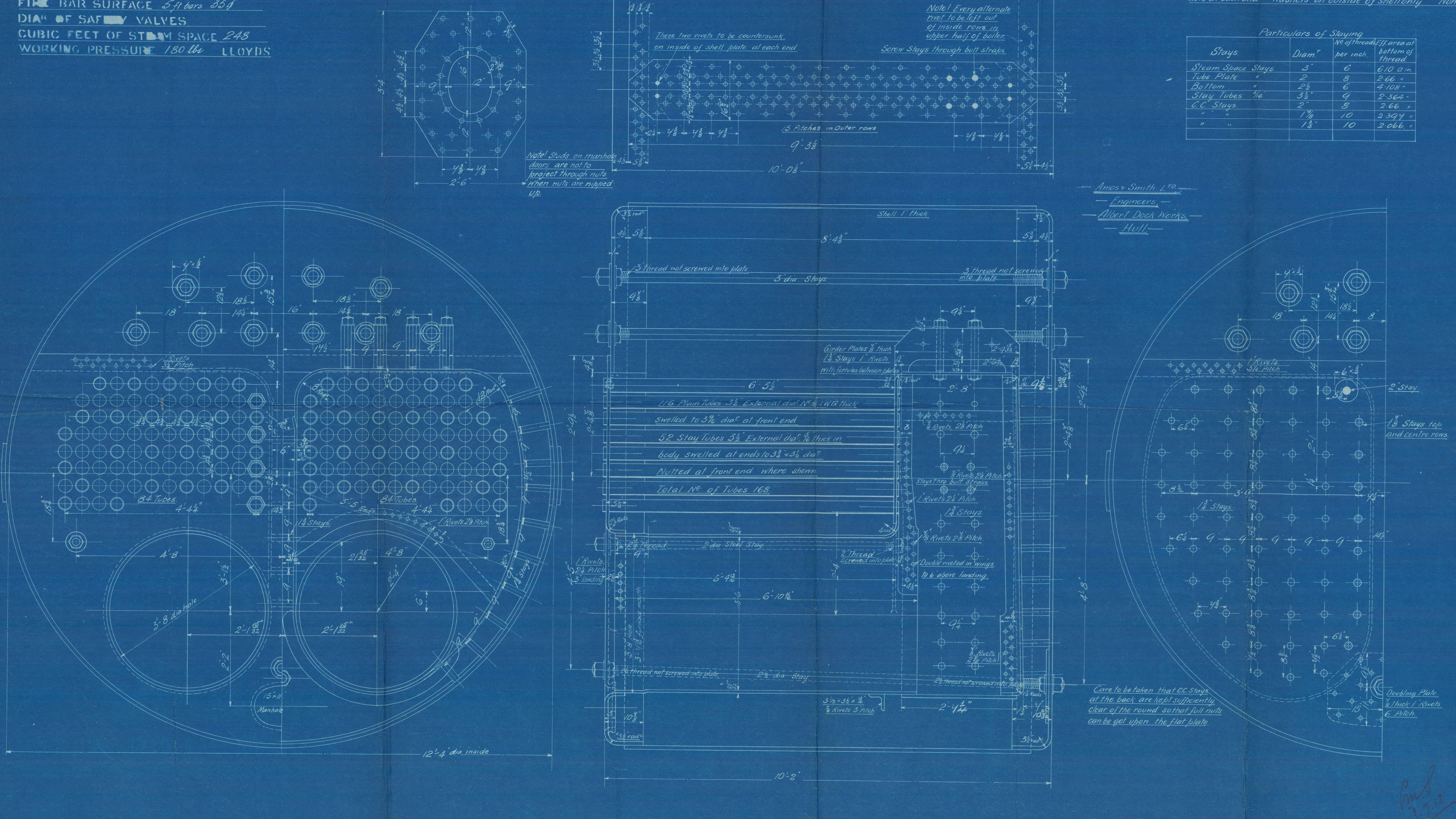
DIA^R OF BOILER	12'-4" inside
LENGH OF D^O	10'-2"
NUMBER OF TUBES	168
LENGTH OF D^O	6'-5½"
DIA^R OF D^O 3½	AREA THRO TUBES 8·44 □'
HEATING SURFACE IN TUBES	994 □'
TOTAL HEATING SURFACE	1256 □'
FIRE BAR SURFACE	5 ft bars 35 □'
DIA^R OF SAFETY VALVES	
CUBIC FEET OF STEAM SPACE	248
WORKING PRESSURE	180 lbs LLOYDS

Circumferential Seams 3½" Pitch
% Plate 68.
% Rivet 48·3.
Longitudinal Seams 4⅜" Pitch
% Plate 84·4
% Rivet 100
Double Butt Straps 1" thick outside, 15/16" inside.
All rivets in shell 1 3/32 dia^r. Holes 1⅛ dia^r.
Tensile strength of shell plates to be between 29–33 tons per □ inch

Note! The plates, rivets & stays of steel by the Siemens Martin process
All rivet holes drilled throughout the boiler, those in shell after plates are bent.
All flanged plates to be annealed after the plates are bent.
Stays are not to be welded. Tubes are of iron.
The tensile strength of shell plates and butt straps to be between 29 & 33 tons per square inch.
The combustion chamber stays are screwed into both plates, and are fitted with nuts at each end. Washers on outside of shell only. None inside C.C.

Particulars of Staying

Stays	Diam.^r	N^o of threads per inch.	Eff. area at bottom of thread.
Steam Space Stays	3"	6	6·10 □ in.
Tube Plate "	2	8	2·66 "
Bottom "	2½	6	4·108 "
Stay Tubes 5/16"	3½"	9	2·364 "
C.C. Stays.	2"	8	2·66 "
" "	1⅞	10	2·397 "
" "	1¾"	10	2·066 "



STEEL BOILER N^o 2423

10428

TITLE	Steel Boiler
[illegible]	A & S.
DATE	24/6/13
ORDER	2343.
IF MADE	Yes.
[illegible]	1" = 1 foot.

W807-0117 1/2

From AMOS & SMITH, Ltd., HULL.

Enclosure for

Lloyds Surveyors

Hull

ANOS & SMITH'S

AMENDED BOILER

PLAN.

No 2423

S/S Okino
Hull Rpt No. 27166