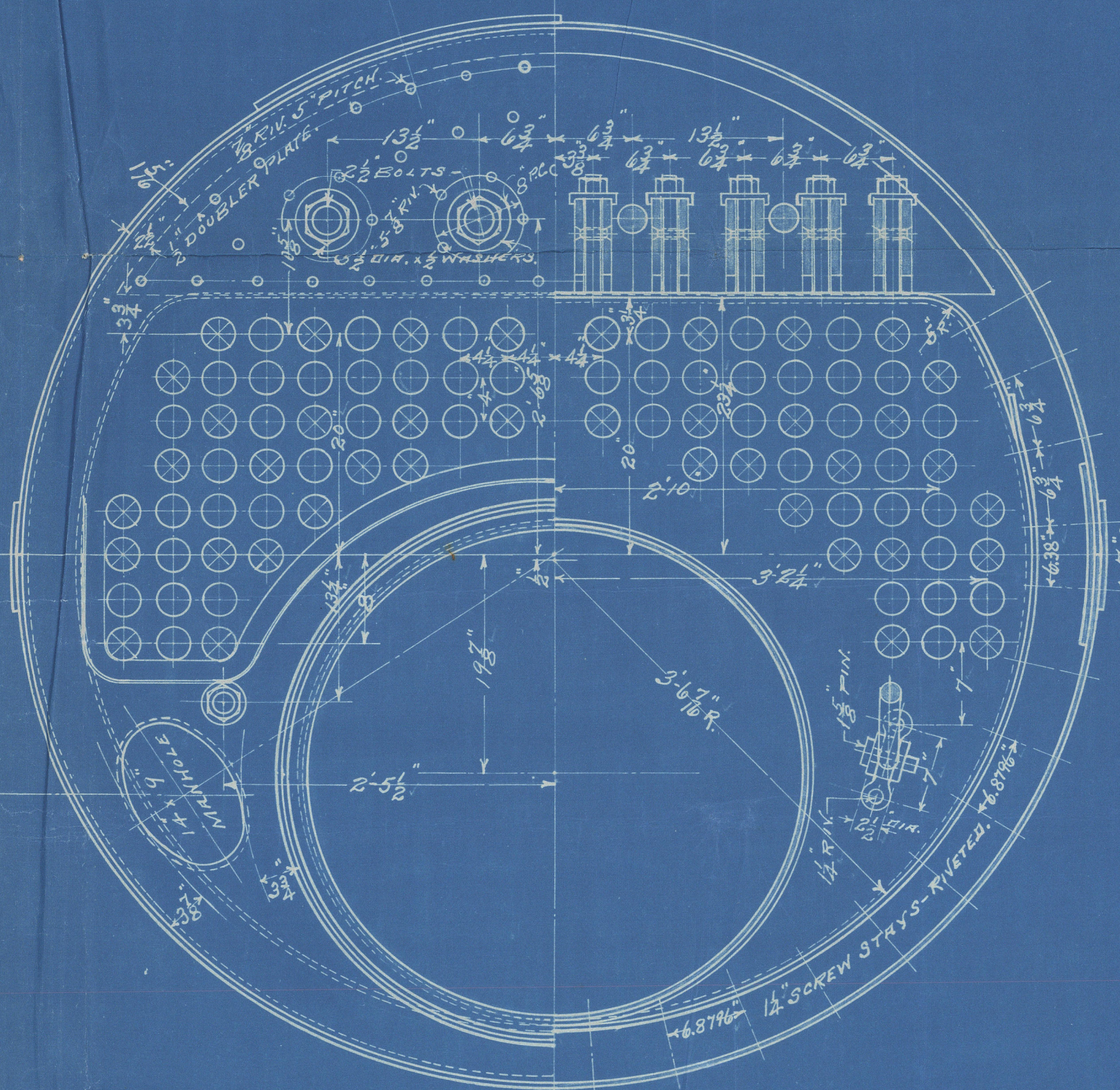


DETAIL OF STAY TUBE
40 THUS
SCALE 6"=1 FT.



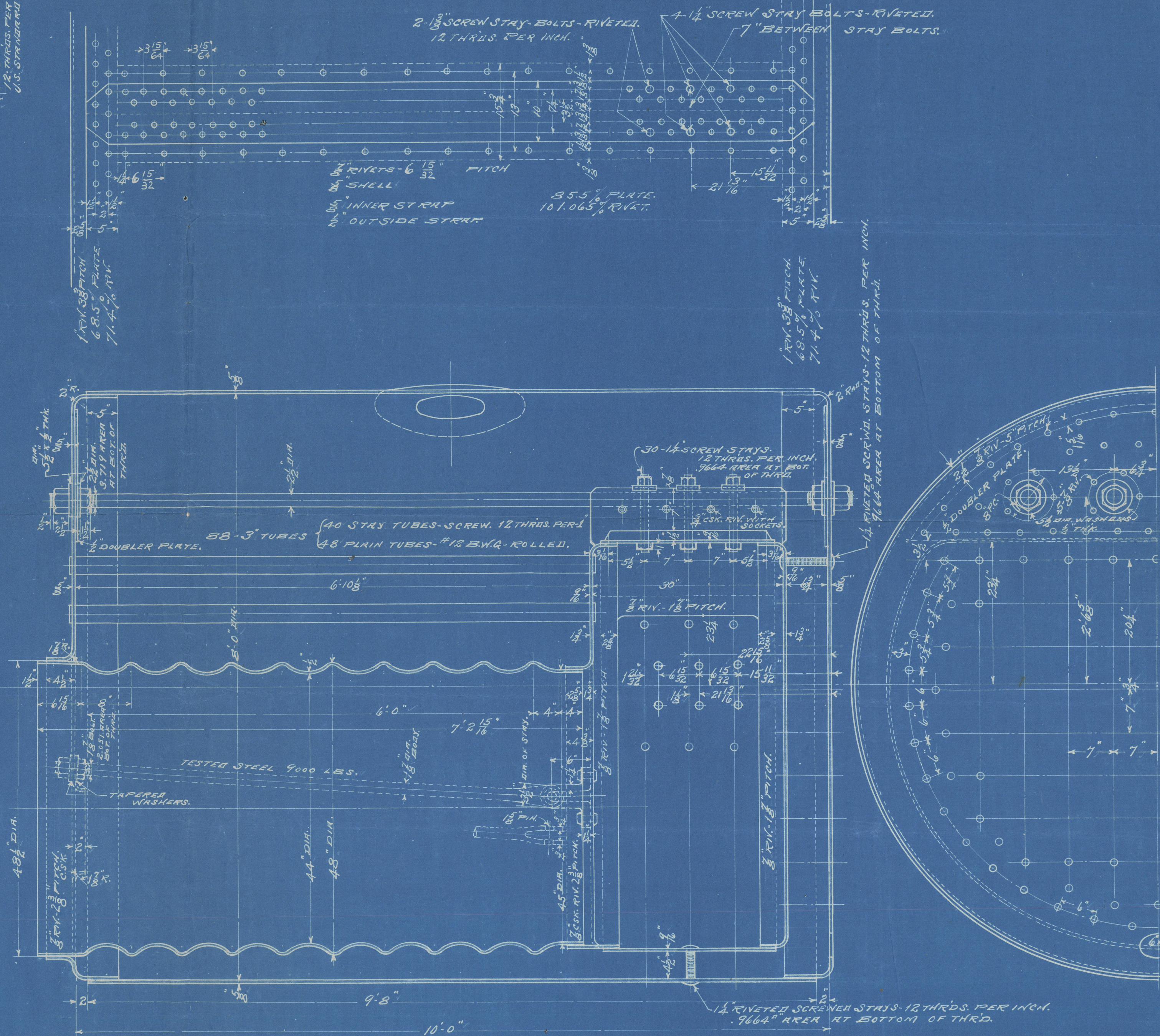
HEATING SURFACE.	
58-3" TUBES-6-10 1/2" LG.	471.91
1-44" FURNACE	67.25
COMBUSTION CHAMBER BACK	26.58
" WRAP	37.50
TUBE SHEET	15.59
TOTAL HEATING SURFACE.	618.83

SAFETY VALVE - OIL BURNING.

300 LBS. OF OIL PER HR. x 13 LBS. OF WATER
PER LB. OF OIL - 3900 LBS. OF WATER EVAPORATED.
EQUIVALENT GRATE SURFACE @ 180 LBS. OF
WATER PER SQ. FT. = 180 - 21.66 SQ. FT. OF GRATE.
GRATE PRESSURE - 150 LBS. EVAPORATION PER
SQ. FT. OF GRATE 180 LBS. OF WATER - 226 SQ. INCHES
AREA PER SQ. FT. OF GRATE.
AREA OF SAFETY VALVE - 21.66 x 226 = 4.895
SQ. INCHES. SAY 2 1/2" VALVE - 4.908 SQ. INCHES.

WORKING STEAM PRESS. - 150 LBS.
WATER TEST PRESS. - (225 LBS. U.S.) AND 225 LBS. FOR LLOYDS.
ALL HOLES FOR RIVETS + STAY-BOLTS IN SHELL
HEADS, AND FLANGES OF SAME, TO BE
FAIRLY DRILLED, AND NO PART OF SUCH
HOLE TO BE PUNCHED.
SHELL STEEL 25 TO 32 TONS T.S. 62720 LBS. TO 71680 LBS.
MAIN STAY BOLTS ALLOWED 9000 LBS. + SCREW STAYS 8000 LBS.
PER SQ. INCH OF AREA AT BOTTOM OF THREAD.
OR LEAST SECTIONAL AREA TO BE TESTED.
FLANGE STEEL 26 TO 30 TONS T.S. 55340 LBS. TO 67200 LBS.
ALL STEEL RIVETS.

NOTE -
BOILER TO PASS U.S.
AND LLOYDS INSPECTION.



NOTE -
TUBES MARKED ⊗ ARE STAY TUBES.
SCREW STAYS TO HAVE 1/8" HOLE DRILLED 1/2" BEYOND WATER SIDE
OF PLATE.

Original approved
8/3/16.
Sigsbee
E.M.S.

CONTRACT # 74	
Baltimore Dry Docks & Ship Building Co. BALTIMORE, MD.	
FOR 8'0" DIA. x 10'0" LONG 150 LBS. W.P. DONKEY BOILER.	
Drawn By J.M.G.	Chief Draftsman R.M.
Traced By J.M.G.	Approved
Checked By J.M.G.	Approved
Scale 1"=1 FT.	Date FEB. 15, 1916
DRG. NO. 25762	



Copy of Approved
Plan of Donkey Boiler
for Motor Vessel
"Baukegia"
"Holden Evans"

Baltimore & D. & S. B. Co.
Yard No 76.

Approved 8th March 1916

Baltimore Report
No 2055



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Foundation