

HEATING SURFACE — SQ. FT.

2 1/4 TUBES 6'-9" LONG X 3 1/2" EXT. DIA. = 1229

2 FURNACES " " X 4 1/2" MEAN " = 90

FIREBOX TOPS & SIDES = 90

" BACKS = 48

BACK TUBE PLATES = 30

FRONT " = 20

TOTAL H.S. IN ONE BOILER = 1507

GRATE SURFACE —

TWO FURNACES 4 1/2" INSIDE DIA. X 5'-6" BARS = 41.25

HS = 36.48 TS = 29.7

QS = 36.48 QS = 29.7

STEAM SPACE FROM 9" ABOVE FIREBOX TOP = 230

WEIGHT OF WATER (FRESH) TO 9" ABOVE " = 17 TONS

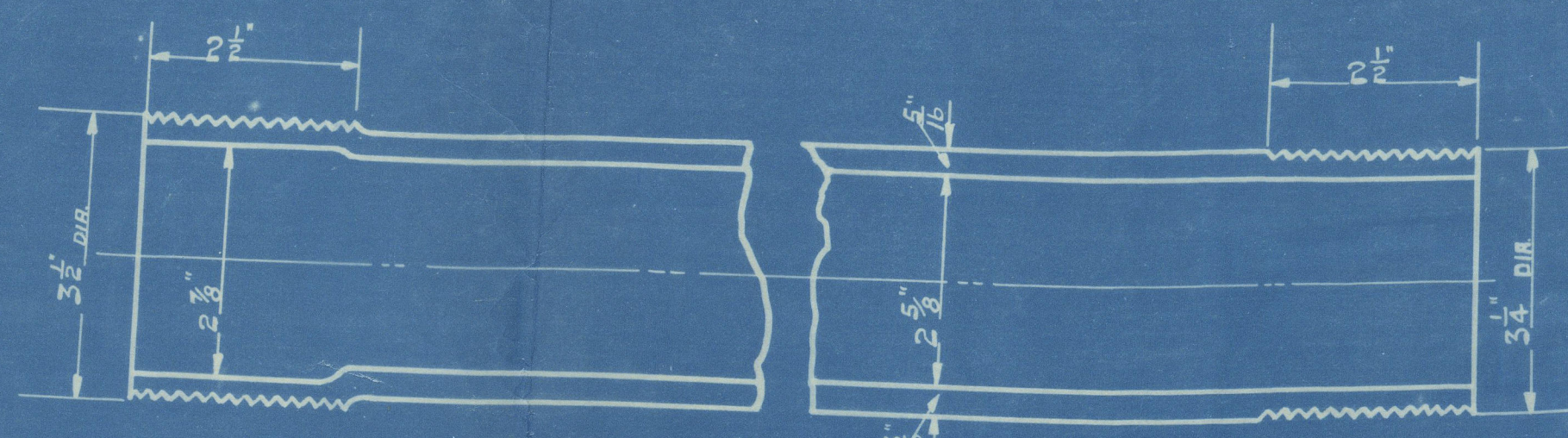
AREA THRO' TUBES 9.54

STEAM SPACE STAYS —

STEEL STAYS 2 1/2" DIA. BTHD. PER IN. EFF. AREA = 3.4519"

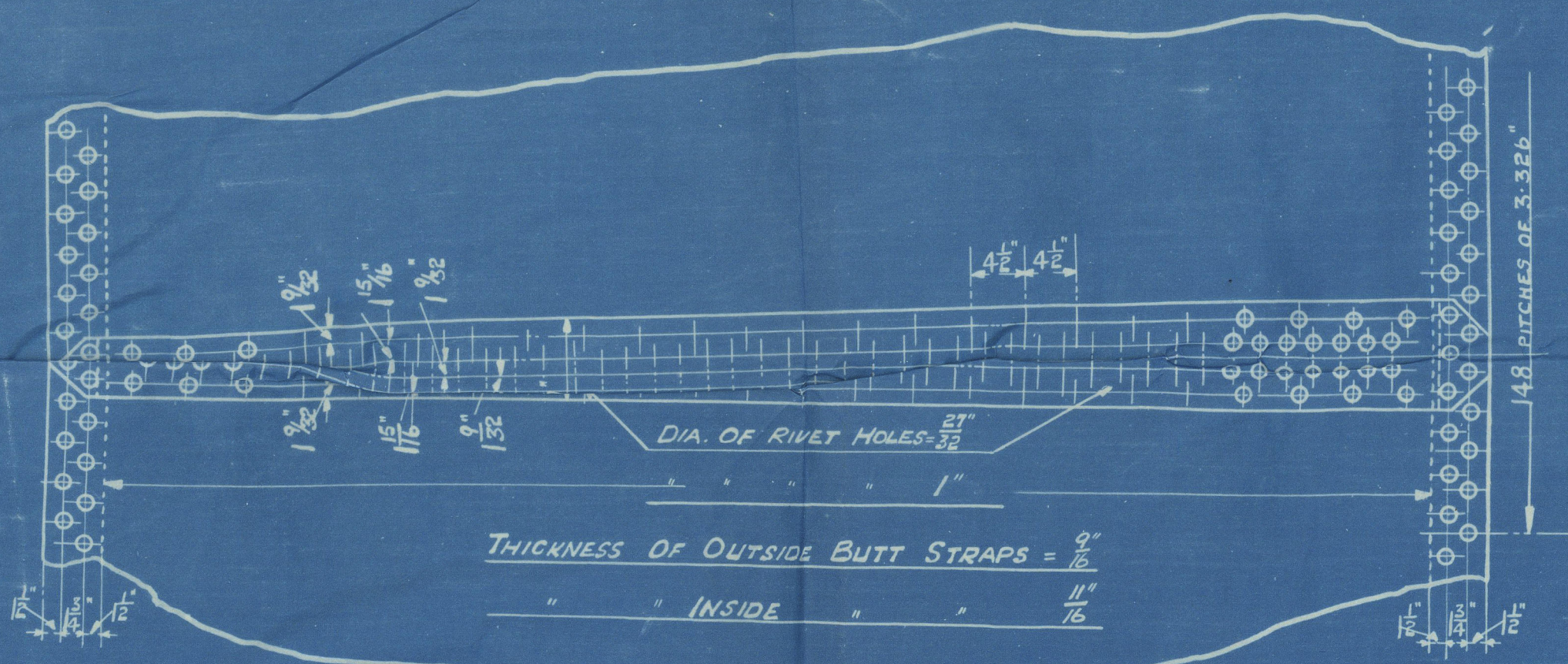
DEPTH OF OUTSIDE NUTS = 2 1/8"

" " INSIDE " = 1 1/2"



STAY TUBES MARKED (S) 11 THDS PER INCH

EFF. AREA = 2.3012"

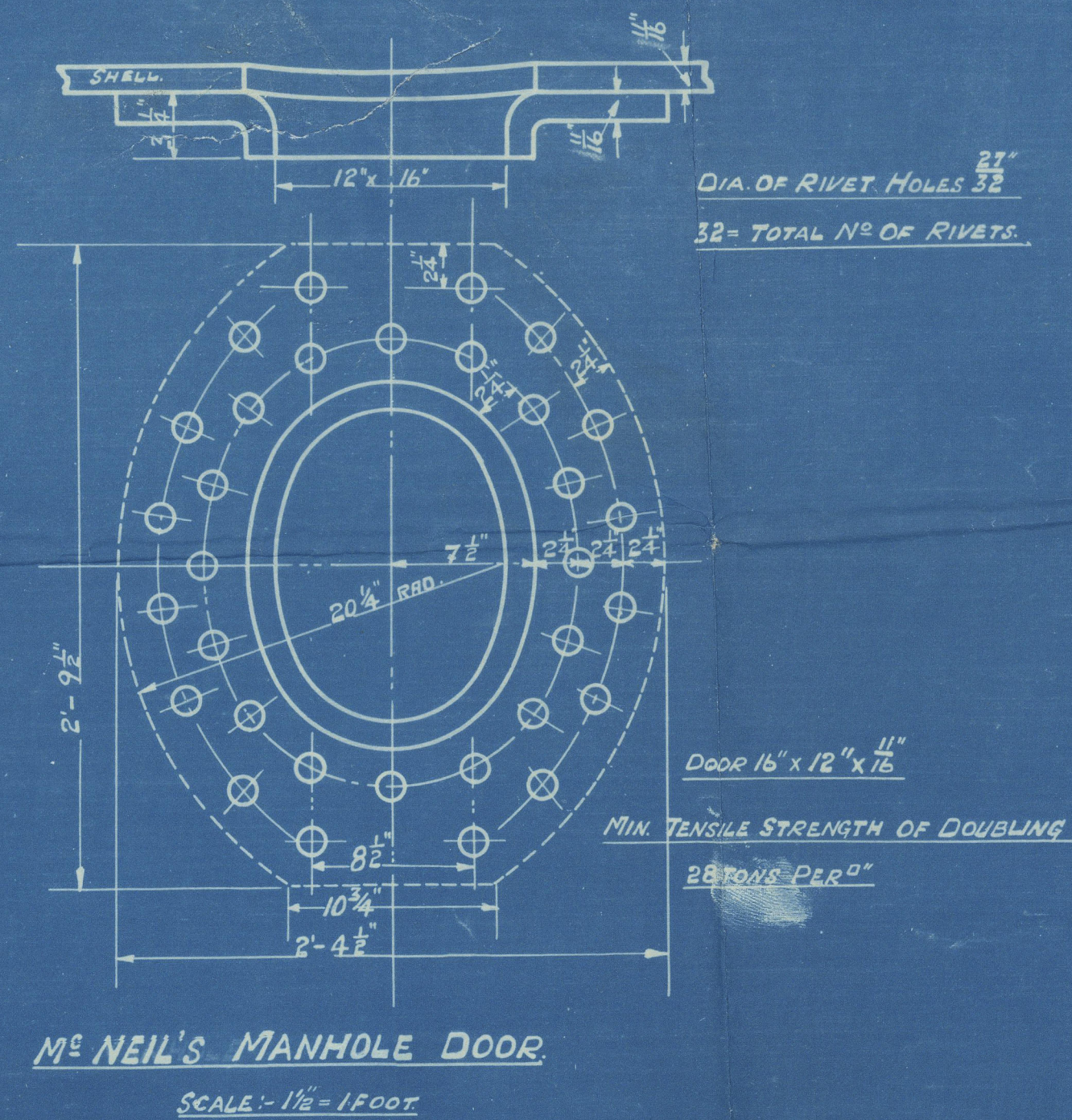


TENSILE STRENGTH OF SHELL PLATES & BUTT STRAPS 28 TO 32 TONS PER SQ. IN.

" " GIRDER PLATES 28 TO 32

" " ALL OTHER " 26 TO 30

ALL RIVET HOLES DRILLED TO PLACE.



M^{rs} NEIL'S MANHOLE DOOR

SCALE: 1 1/2" = 1 FOOT

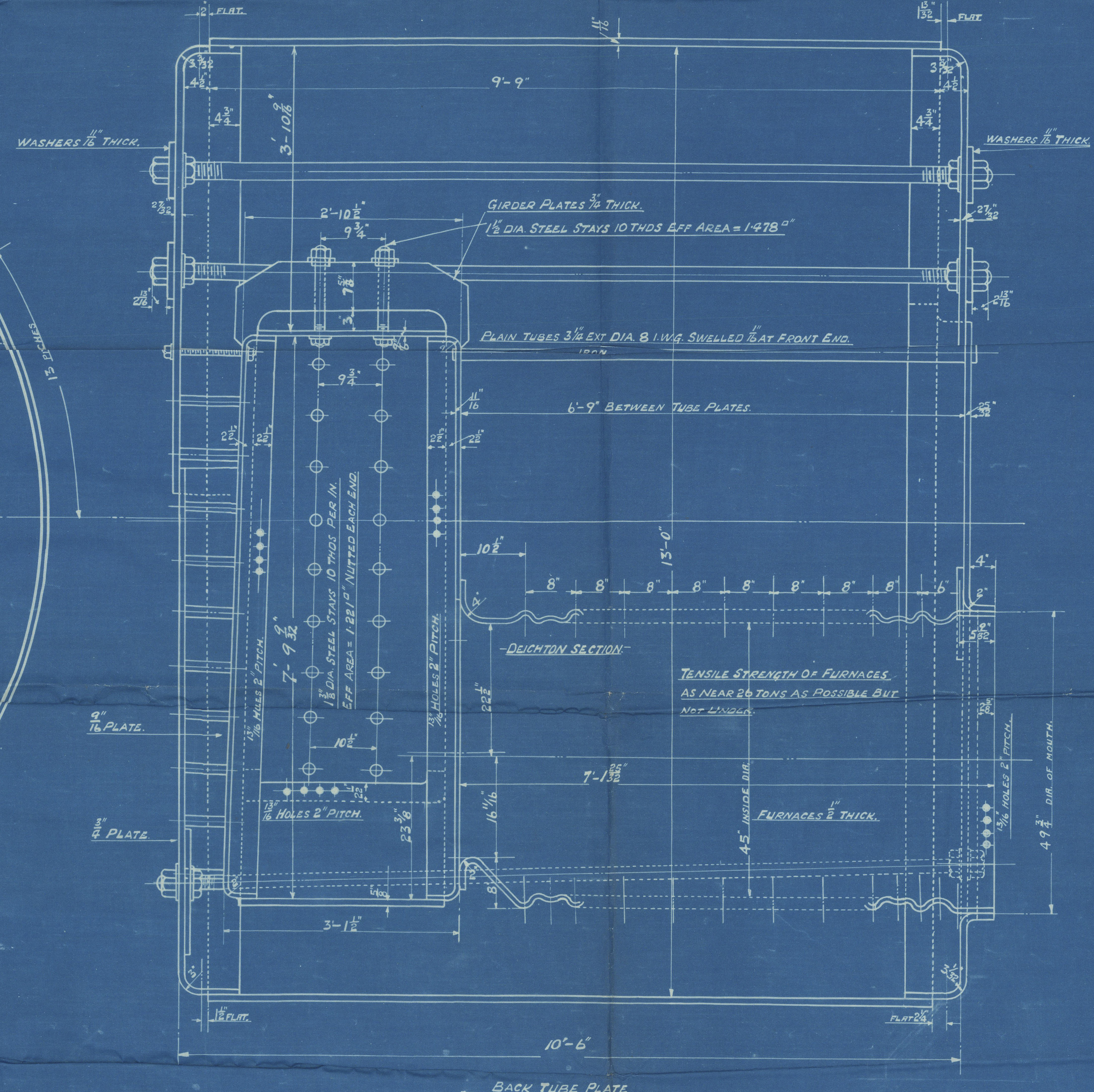
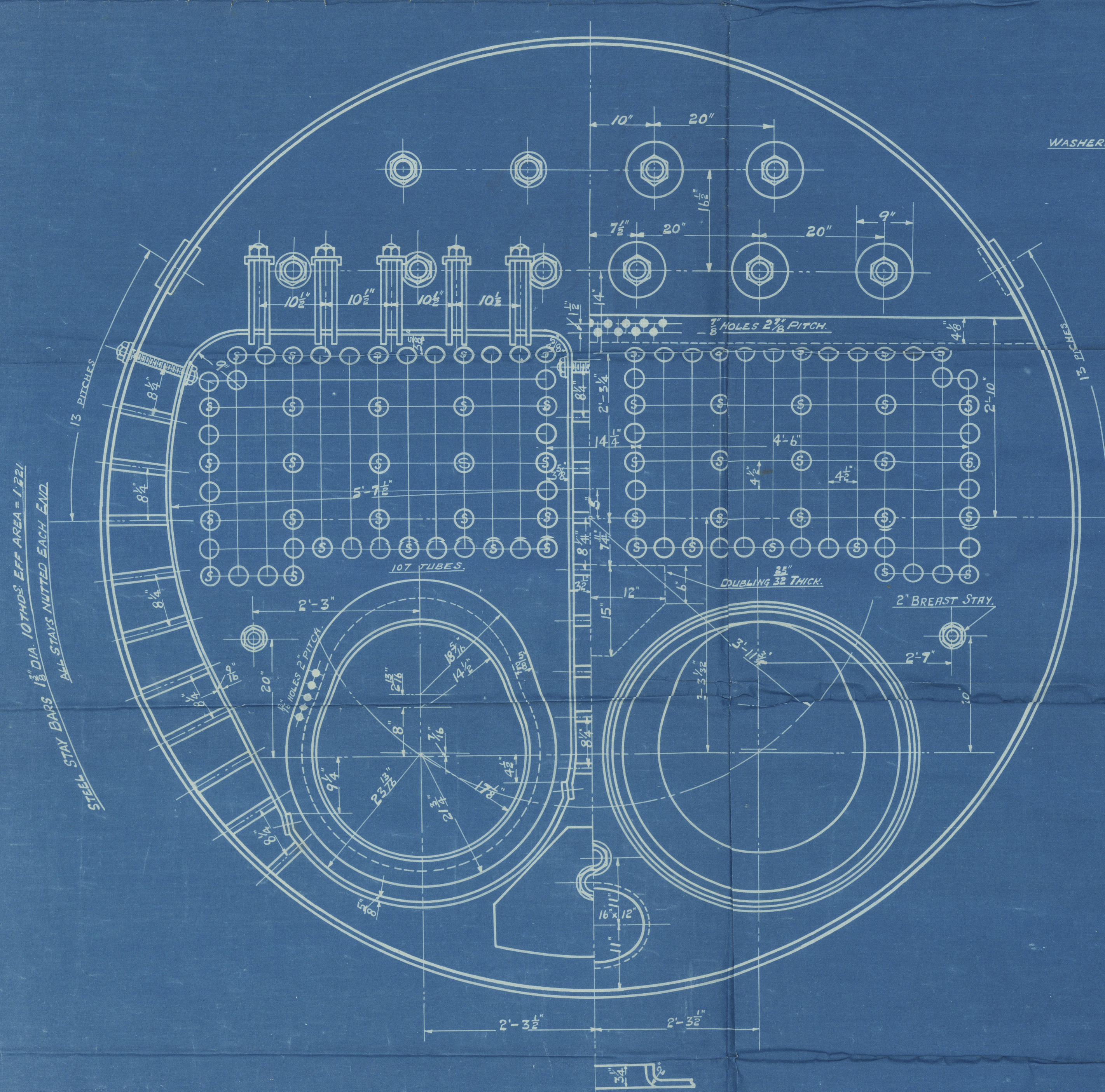
—PLATE LIST—

N ^o OFF.	STRAKE.	DESCRIPTION	LENGTH	BREADTH	THICK.
1.	A.	SHELL TOP.	13'-4 3/4"	117 1/2"	1/2"
1.	B.	" BOTTOM.	27'-9 1/2"	"	1/2"
2.	C.	OUTSIDE BUTT STRAPS.	9'-9 1/2"	10"	3/8"
2.	D.	INSIDE "	9'-1 1/2"	"	1/4"
2.	E.	GIRDERS.	8'-7 1/2"	3 1/2"	3/4"
1.	F.	TOP FRONT.	15'-5 1/2"	27"	3/8"
1.	G.	FURNACE FRONT.	15'-5 1/2"	27"	3/8"
1.	H.	TOP BACK.	15'-5 1/2"	27"	3/8"
1.	J.	BOT ^m BACK.	15'-5 1/2"	27"	3/8"
2.	K.	BACK TUBE PLATES.	8'-6 1/2"	75"	1/2"
2.	L.	FIREBOX BACKS.	8'-7"	75"	9/16"
2.	M.	" TOPS & SIDES.	18'-6"	32 1/2"	9/16"
2.	N.	" BOTTOMS.	5'-3 1/2"	33"	5/8"

DOUBLINGS & WASHERS FROM CUTTINGS.

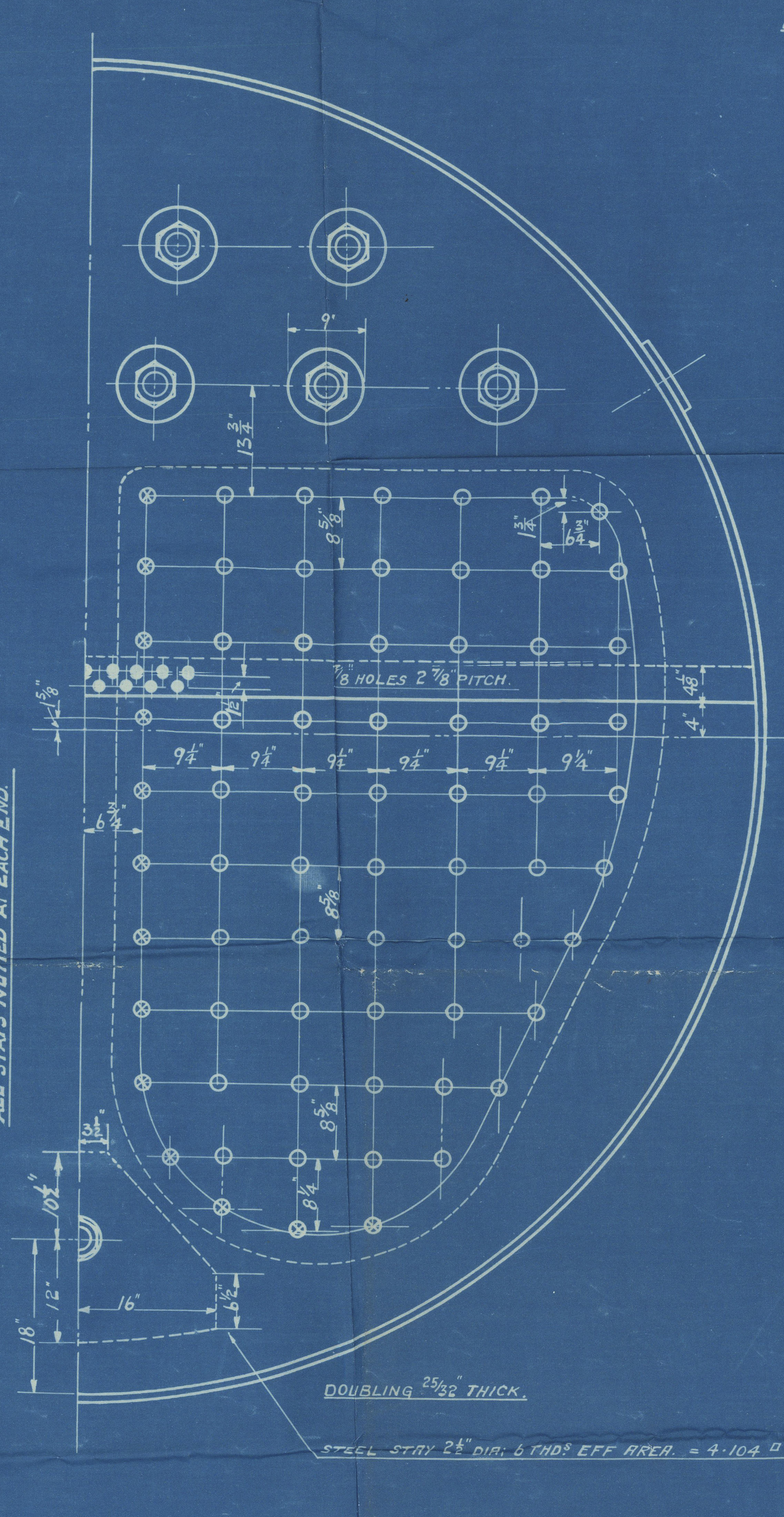
—STAY BAR LIST—

N ^o OFF.	DESCRIPTION	LENGTH	DIA.
10	STEAM SPACE.	11'-2 1/2"	2 1/2"
1	WATER "	11'-1"	2 1/2"
2	BREAST STAYS.	7'-3 1/2"	2"
4	SCREWED "	18'-0"	1 1/2"
13	" "	4 "	1 1/2"



STEEL STAYS MARKED (S) 1 1/2" DIA. 10 THDS. EFF. AREA = 1.4789"

ALL STAYS NUTTED AT EACH END.



WORKMAN, CLARK & CO. LTD

ENGINE DEPT. BELFAST.

DRAWING NO. 22886 DATE 14-4-19

DRAWN BY

CHECKED BY

TRACING CHECKED BY

TRACED BY M.R. D.C. FL.

BOILER 13'-0" INSIDE DIA. X 10'-6" LONG X 100 LBS. W. PRESS.

TO PASS BOARD OF TRADE & BRITISH CORPORATION SURVEYS.

No 440.

DONKEY BOILER

SCALE: 1" = 1 FOOT

2019

8 MAY 1923

RECEIVED

DONKEY BOILER

Kirkman Clark & Co. No 440

"Tacoma Star"
S. Wanzaratta

100 lbs. W.



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Lloyd's Register
W223-0110
Foundation