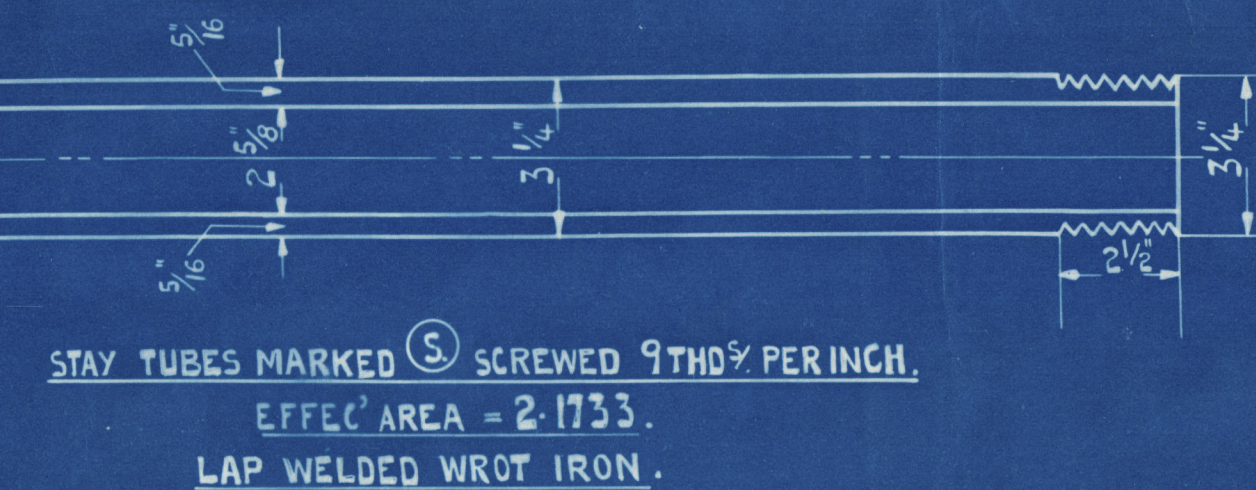
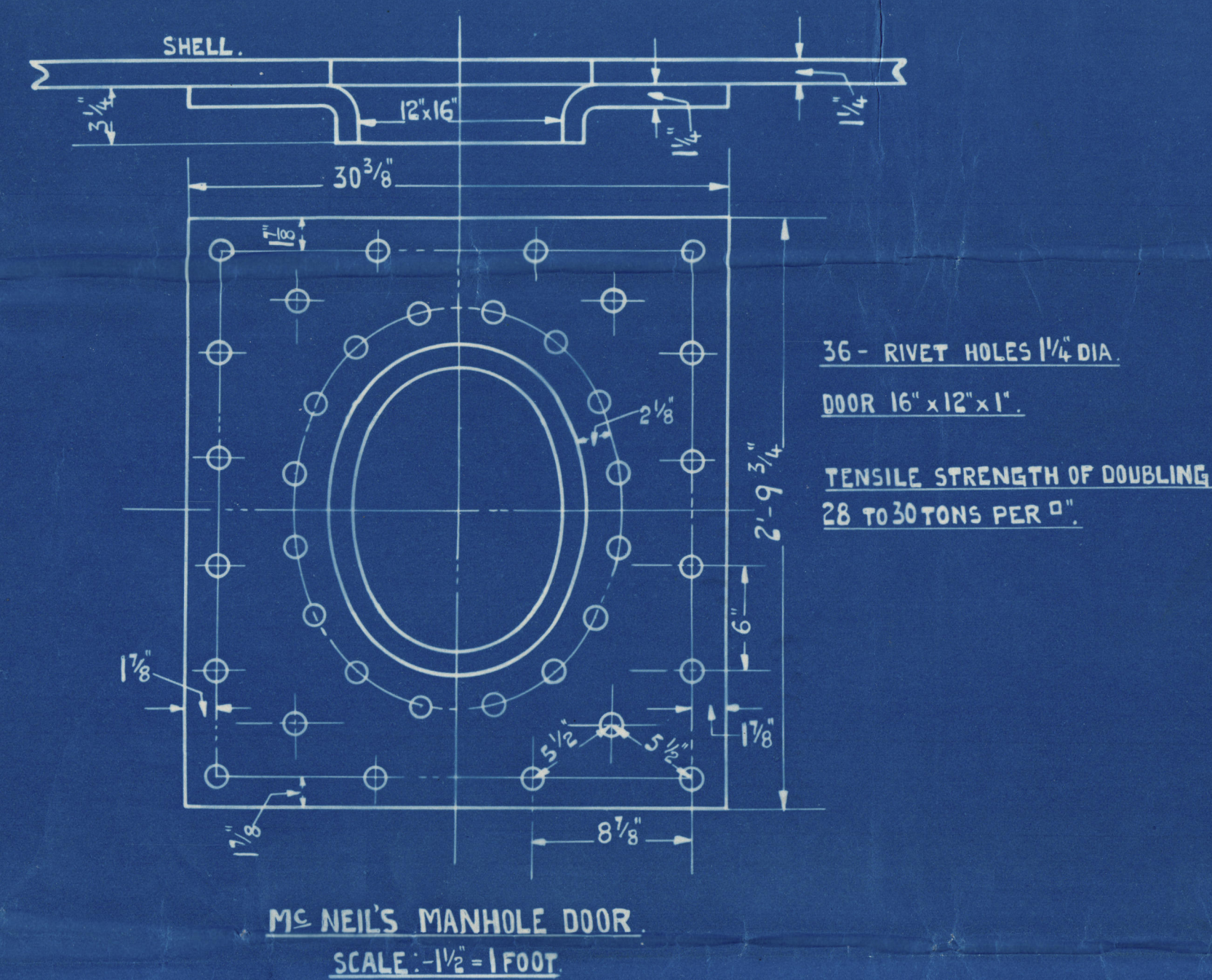


<u>HEATING SURFACE</u>		<u>SQ. FT.</u>
298 TUBES 7" 6 1/2" OVER TUBE PLATES x 3 1/2" EXT. DIA.		1919
3 FURNACES 45" INTERNAL DIA.		169
BACK TUBE PLATES		47
COMBUSTION CHAMBER BACKS		82
WRAPPER PLATES (32 x 3 25)		165
TOTAL H.S. IN ONE BOILER		2332
THREE BOILERS		7146

GRATE SURFACE.	SQ. FT.
3 FURNACES 45' x 1' DIA. x 5'-6" BARS. =	63.25
TOTAL G.S. IN THREE BOILERS =	189.75

H.S.	—	<u>37.6</u>	T.S.		
G.S.			G.S.	=	<u>30.3</u>
STEAM SPACE FROM 9" ABOVE C.C. TOP =			4.09 CUBIC FT.		
WEIGHT OF COLD WATER TO 9" ABOVE C.C. TOP. =			27. TONS		
AREA THRO. BOILER TUBES. =			13.06 SQ. FT.		

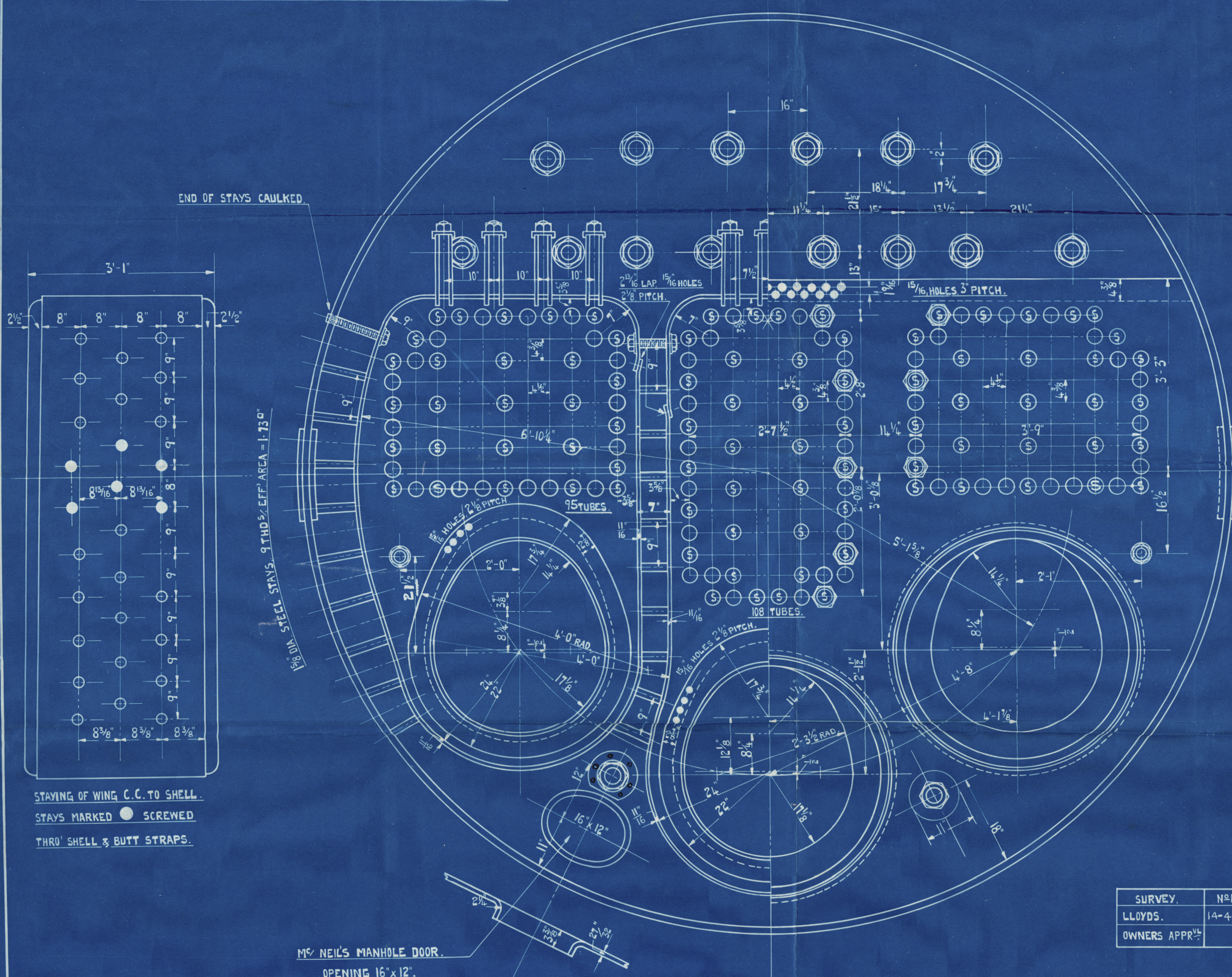
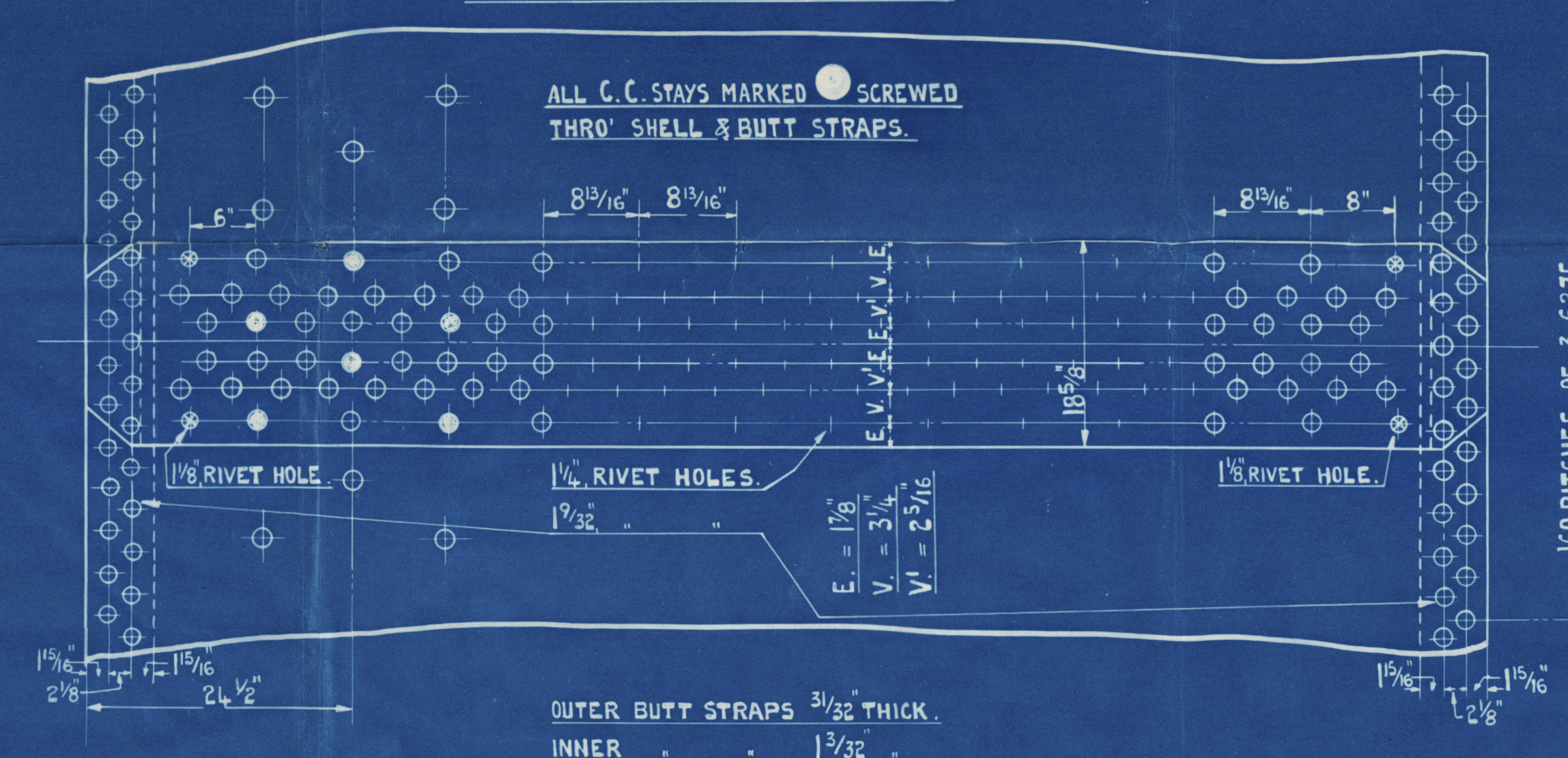
— STEEL STEAM SPACE STAYS. —
TENSILE STRENGTH OF BARS 28 TO 32 TONS PER SQ. INCH.
ALL STAYS $3\frac{1}{8}$ " DIA. 6 THOS. EFF. AREA = 6.66"²
DEPTH OF OUTSIDE NUTS = $2\frac{1}{8}$ "
" " INSIDE " " = $1\frac{1}{2}$ "



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

"	"	GIRDER	28 TO 32	"	"	"
"	"	ALL OTHER PLATES	26 TO 30	"	"	"

ALL RIVET HOLES DRILLED IN PLACE.



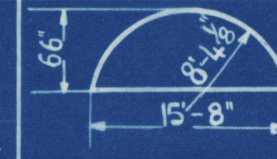
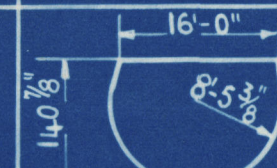
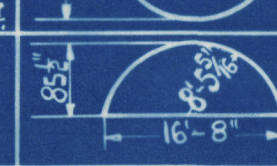
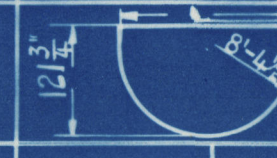
SURVEY.	Nº 175.	
LLOYDS.	14-4-25	
OWNERS APPR ^{VAL} .		

-THREE BOILERS THUS.-

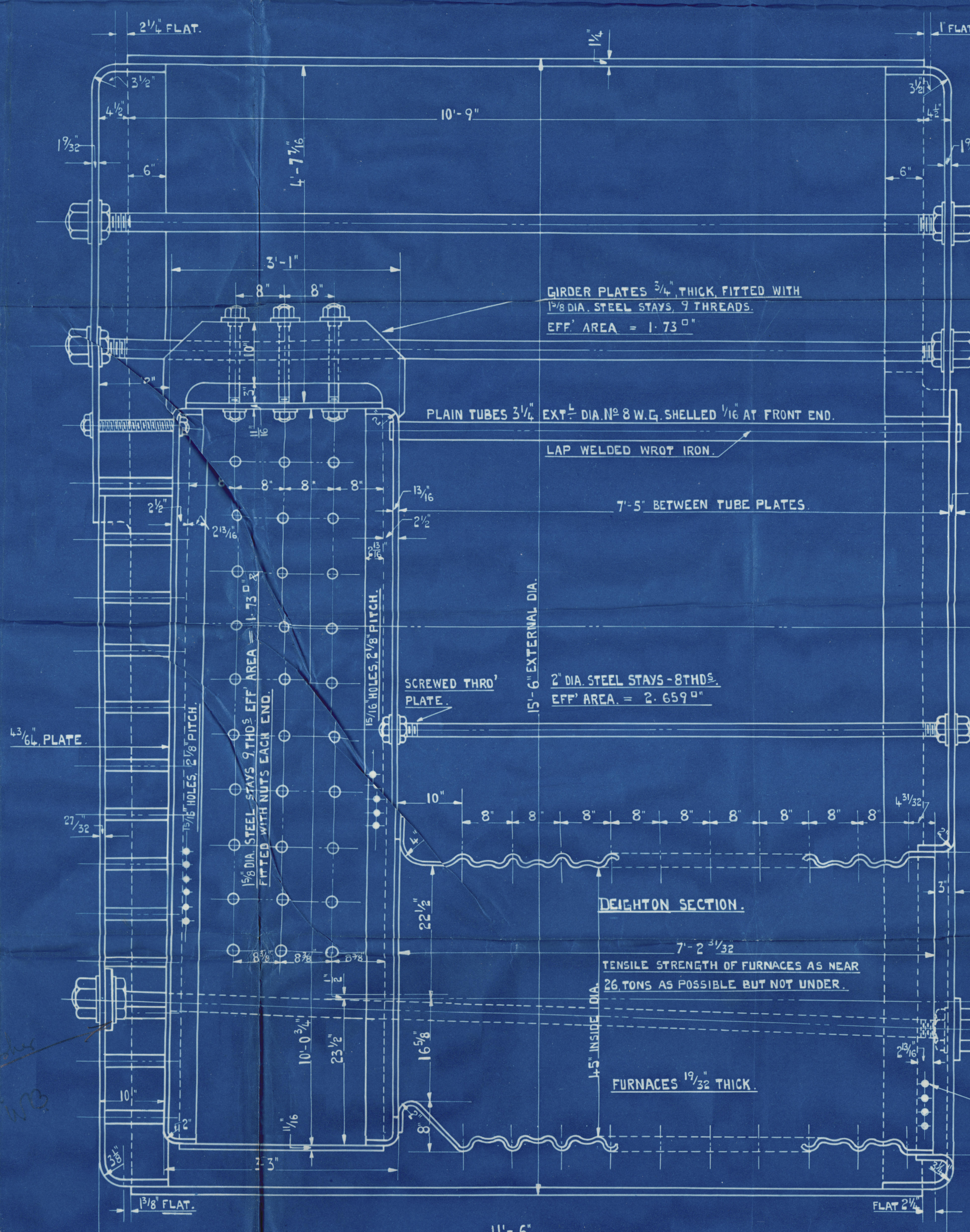
ALL MATERIAL STEEL EXCEPT TUBES WHICH ARE IRON.

WORKING PRESSURE = 180 LBS.PER SQ. INCH.

HYDRAULIC TEST " = 320 " " " "

PLATE LIST.					
№.	STRAKE.	DESCRIPTION.	LENGTH.	BREADTH.	THICK.
6.	A.	SHELL TOP & BOTTOM.	24'-2 3/4"	129 1/4"	1 1/4"
6.	B.	BUFF STRAPS OUTER.	10' - 9"	18 5/8"	3 1/32"
6.	C.	" INNER.	9' - 1"	17 1/2"	1 1/2"
6.	D.	GIRDERS.	10' - 1 1/2"	39"	3 1/4"
3.	E.	TOP FRONTS.	66-5 5/4 FT.		1 1/2"
3.	F.	FURNACE FRONTS.	166-5 5/4 FT.		3 1/4"
3.	G.	TOP BACKS.	90-50 FT.		1 1/2"
3.	H.	BOTTOM BACKS.	110-50 FT.		2 1/2"
3.	J.	C.B. BACK TUBE PLATES.	10' - 9 1/4"	57"	13 1/4"
3.	K.	WING	8' - 8 1/4"	65 3/8"	13 1/8"
3.	L.	C.B. C.G. BACKS.	10' - 9 1/4"	57"	13 1/4"
3.	M.	WING	8' - 8 1/4"	65 3/8"	13 1/8"
3.	N.	C.B. WRAPPER PLATES.	26' - 1"	34 1/2"	1 1/8"
6.	P.	WING	22' - 7"	34 1/2"	1 1/8"
1.	-	COMPENSATING RINGS.	8' - 6"	31"	1 1/4"

STAY BAR LIST.			
NO.	DESCRIPTION.	LENGTH	DIA.
62	STEAM SPACE STEEL.	12'-2 1/2"	3 3/8"
6	WATER " "	12'-4"	3"
6.	BREAST STAYS " "	7'-11"	2"
16.	SCREWED " IRON.	18'-0"	1 7/8"
12.	" " "	"	1 3/4"
53	" " "	"	1 3/8"



STEEL STAYS ON C.C. BACK

STEEL STAYS MARKED	1 1/8" DIA.	9 THDS. EFF. AREA.	= 2.36 SQ. INCHES.
"	⊗ 1 3/4"	9	= 2.03
"	⊙ 1 5/8"	9	= 1.73

ALL STAYS FITTED WITH NUTS AT EACH END.

STEEL STAY 3" DIA. 6 THDS
EFF. AREA = 6.096 IN².

WORKMAN, CLARK & CO LTD
ENGINE DEPT BELFAST.
DRAWING NO 26245 DATE 31.3.1924
DRAWN BY _____
CHECKED BY 485
TRACING CHECKED BY no R

15'-6" EXT¹/₂ DIA. x 11'-6" LONG x 180 LBS. W.P.
TO PASS LLOYDS SURVEY.

No. 475.
MAIN BOILERS
SCALE:- 1" = 1 FOOT.

WORKMAN CLARKE & CO

S.S. NO 435

MAIN BOILERS

3 OFF

WORKING PRESSURE 180 LBS \square "

(AMENDED PLAN).

"Lillesden"

Bel. 9260.

W135-0224



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BEAUFORT

Lloyd's Register
Foundation