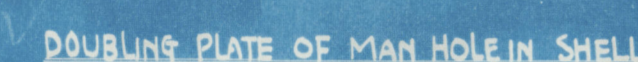


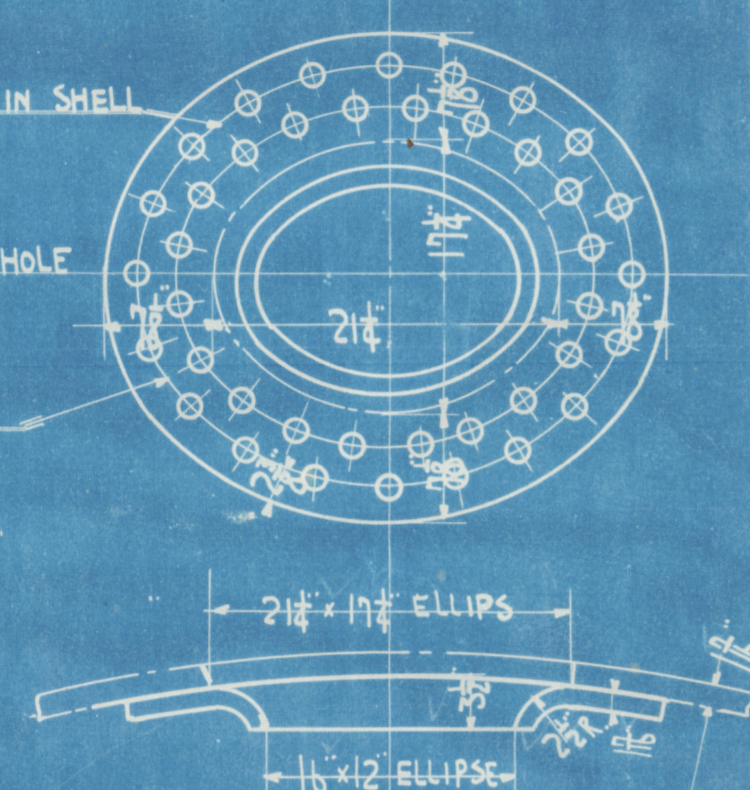
PARTICULARS		
INTERNAL DIAMETER		15 FT. 6"
MEAN LENGTH		11 FT. 9"
WORKING PRESSURE		200 LBS.
TEST PRESSURE		400 "
LENGTH OF FIRE BARS		5 FT. 7 1/2"
AREA OF FIRE GRATE		64 SQ. FT.
HEATING SURFACE OF FURNACES		199 "
" " " COMBUSTION CHAMBERS		283 "
" " " TUBES		2220 "
TOTAL HEATING SURFACE		2412 "
RATIO OF H.S. TO GRATE AREA		41.69
AREA THROUGH TUBES		13.94 SQ. FT.
TOTAL NUMBER OF TUBES		338
NUMBER OF PLAIN TUBES NO 2 L.S.G. THICK		280
" " STAY TUBES 5/16 THICK MARK (5)		46
" " 3/8 THICK MARK (A)		72

ALL PLATES RIVETS & STAY BARS TO BE OF SIEMENS MARTIN STEEL
ALL RIVET HOLES TO BE DRILLED IN PLACE AFTER THE PLATE ARE BENT.
ALL FLANGED PLATES TO BE ANNEALED AFTER FLANGING.
THE SCREW STAYS IN C.G. BACKS ARE $2\frac{1}{8} \times 1\frac{1}{2}$ EFFECTIVE DIA. SCREWED INTO
BOTH PLATES & NUTTED AS SHOWN (ALL SCREWED 11 THREADS PER INCH.)
A MAN HOLE IN SHELL 16×12 WITH SHORTER AXIS LONGITUDINALLY AND
A DOUBLING PLATE $22\frac{1}{2} \times 15 \times 2\frac{1}{2}$ FITTED INSIDE ON SHELL PLATE



16" x 12" M'CNELL'S PATENT MAN HOLE
DOOR FITTED

40-12" RIVETS 1 9/16" HOLE 7 1/8" LAP.


$$W.P. = 22 \times (T-2) \times B = 210.053 \text{ LBS PER SQ INCH "FOR SHELL"}$$

$$B_1 = P - d = 84.567\%$$

$$B_2 = \frac{P}{n \times a \times F} = 90.299\%$$

$$B_3 = \frac{P \times t}{P} \times (P - 2d) + \frac{B_2}{n} = 87.196\%$$

RIVETED HEADS OF
C C SIDE SCREW ST

BUTT STRAP RIVETING:- $\frac{1}{2}$ " RIVET $1\frac{1}{8}$ " HOLE $10\frac{1}{8}$ " PITCH TRIPLE RIVETED

ATCH DOUBLE RIVETED

10 FT 11 1/2

TOTAL LENGTH = 12 FT. 7 1/2" ABOUT

14- LONGITUDINAL STEEL STAYS 3/5" DIA. IN BODY, 8.2960" EFFECTIVE AREA
SCREWED AT ENDS 8 THREADS PER INCH

4-1" RIVET 8 $\frac{1}{4}$ " PITCH

IRON ORDINARY TUBES 3" E.T.D. 1/2" X 10' 3" THICK 1/2" I.D. 11' LONG SWELLED
FRONT END UP TO 3" DIA FOR A LENGTH OF 3" AND EXPANDED INTO BOTH TUBE PLATES
IRON STAY TUBES MARKED "3" E.T.D. 1/2" X 10' 3" THICK 1/2" I.D. SWELLED AT
FRONT END UP TO 3" DIA FOR A LENGTH OF 3" AND SCREWED INTO BOTH TUBE PLATES
IRON STAY TUBES MARKED "3" E.T.D. 1/2" X 10' 3" THICK IN BODY "11' LONG SWELLED AT
FRONT END UP TO 3" DIA FOR A LENGTH OF 3" AND SCREWED INTO BOTH TUBE PLATES
ALL STAY TUBES SCREWED AT ENDS 11 THREADS PER INCH
ALL ORDINARY AND STAY TUBES TO BE BEADED OVER AT BACK END

BETWEEN TUBE PLATES

3-MORISON'S SECTION FURNACES

b- LONGITUDINAL STEEL STAYS 2³/₈" DIA. IN BODY. 4430" EFFECTIVE AREA

1. $\frac{15}{16}$ 2. $\frac{3}{4}$ 3. $\frac{1}{2}$

2 - SETS

[illegible]

16"x12" M'NEIL'S
MAN HOLE DOOR FITTED

3-SETS. { 2-THUS. 1-OTHER HAND. FOR A SHIP

MARKED 2 1/2 EXT. DIA. SCREW STAYS 6
 " 2 " " " " 72
 " 1 3/4 " " " " 276
 ALL SCREW STAYS SCREWED 11 THREADS PER INCH