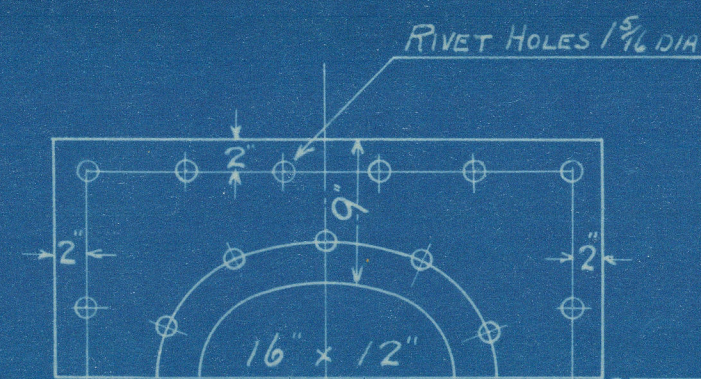


# TENSILE STRENGTH OF MATERIALS.

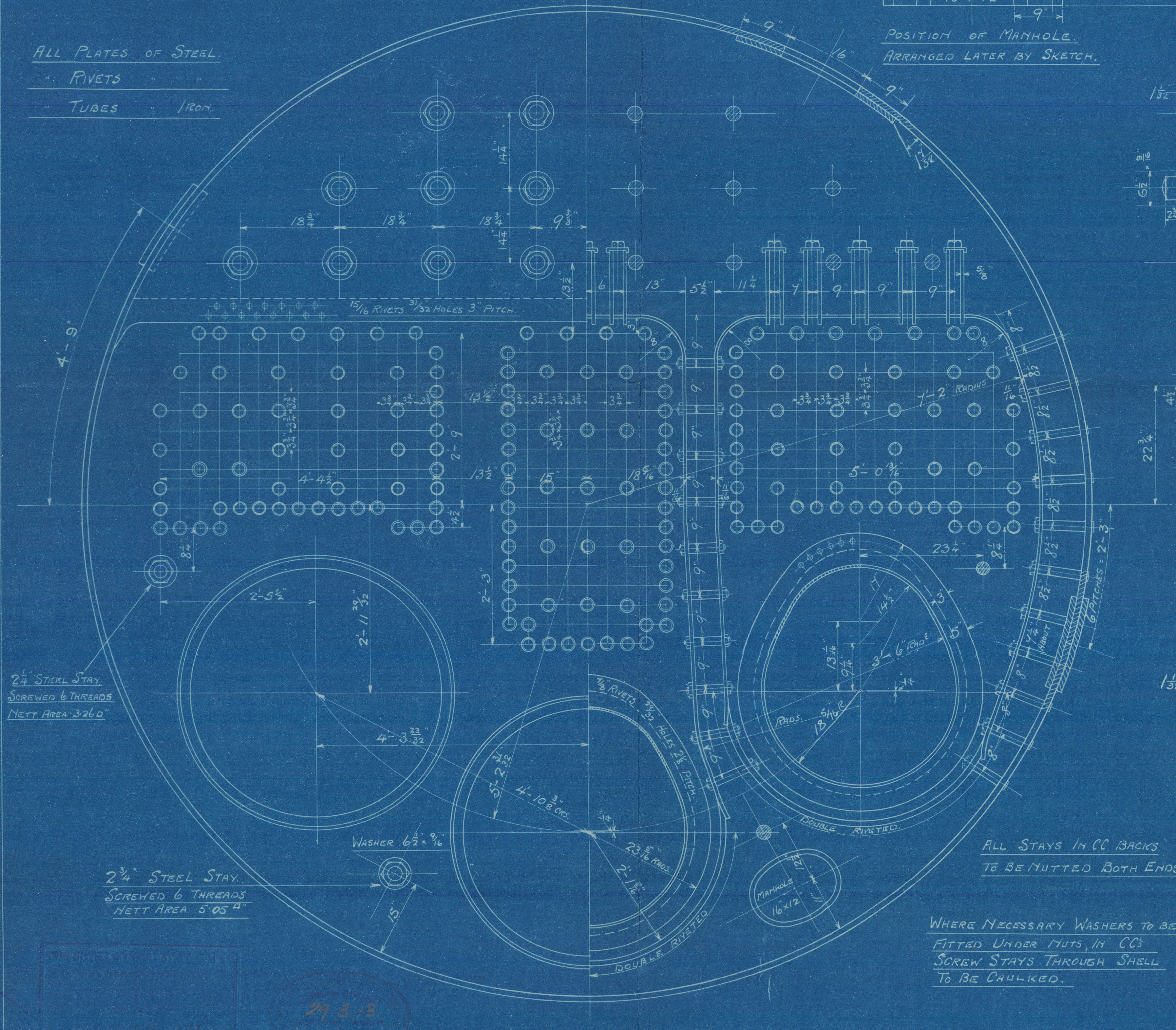
CIRC <sup>l</sup> SHELL PLATES, BUTTSTRAPS, & MANHOLE DOUBLING	= 29 <sup>3</sup> / <sub>4</sub> " TO 33 TONS.
GIRDER PLATES	= 28 TO 32 "
ALL OTHER PLATES & FURNACES	= 26 TO 30 "
LONGITUDINAL STEEL STAYS.	= 28 TO 32 "
STEEL RIVET BARS.	= 26 TO 30 "

WORKING PRESSURE 180 LBS PER SQUARE INCH  
TEST 360 " " " "

ALL PLATES OF STEEL.  
" RIVETS " "  
" TUBES " IRON.



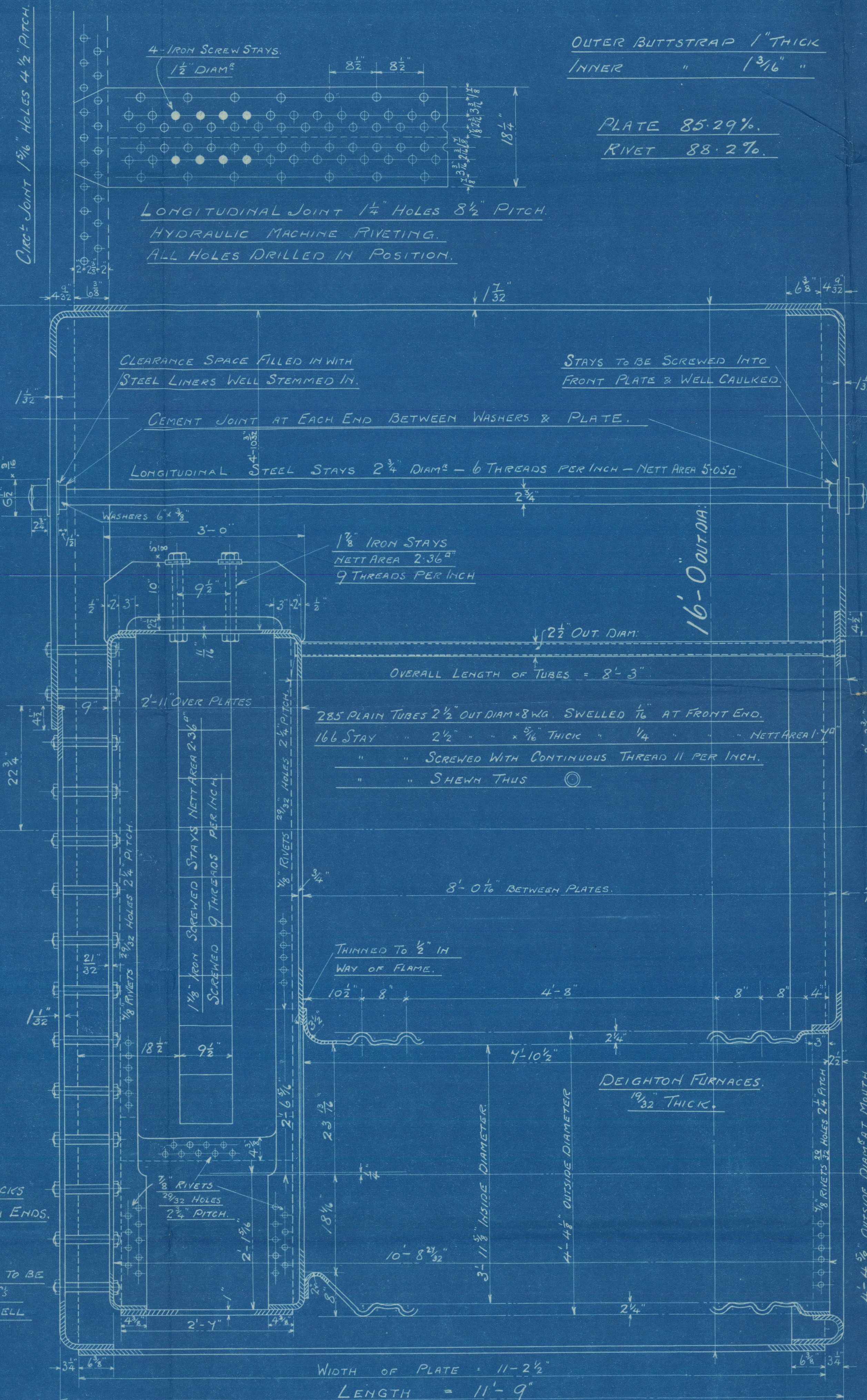
POSITION OF MANHOLE.  
ARRANGED LATER BY SKETCH.



ALL STAYS IN CC BACKS  
TO BE BUTTED BOTH ENDS.

WHERE NECESSARY WASHERS TO BE  
FITTED UNDER NUTS, IN CC'S  
SCREW STAYS THROUGH SHELL  
TO BE CAULKED.

Circ<sup>l</sup> Joint 1 3/4" Holes 4 1/2" Pitch.



WIDTH OF PLATE 11'-2 1/2"  
LENGTH 11'-9"

OUTER BUTTSTRAP 1" THICK  
INNER " 1 3/16 "

PLATE 85.29%.  
RIVET 88.2%.

LONGITUDINAL JOINT 1 1/4" HOLES 8 1/2" PITCH.  
HYDRAULIC MACHINE RIVETING.  
ALL HOLES DRILLED IN POSITION.

CLEARANCE SPACE FILLED IN WITH  
STEEL LINERS WELL STEMMED IN.

STAYS TO BE SCREWED INTO  
FRONT PLATE & WELL CAULKED.

CEMENT JOINT AT EACH END BETWEEN WASHERS & PLATE.

LONGITUDINAL STEEL STAYS 2 1/4" DIAM<sup>2</sup> - 6 THREADS PER INCH - NETT AREA 5.050"

WASHERS 6" x 3/4"

1 1/2" IRON STAYS  
NETT AREA 2.36"  
9 THREADS PER INCH

OVERALL LENGTH OF TUBES = 8'-3"

285 PLAIN TUBES 2 1/2" OUT DIAM<sup>2</sup> 8 W.G. SWELLED 1/8" AT FRONT END.  
166 STAY " 2 1/4" " 3/16" THICK " 1/4" " NETT AREA 1.40"  
" " SCREWED WITH CONTINUOUS THREAD 11 PER INCH.  
" " SHOWN THIS

8'-0 1/8" BETWEEN PLATES.

THINNED TO 8" IN  
WAY OF FLAME.

DEIGHTON FURNACES.  
1 1/2" THICK.

1 1/2" RIVETS  
3/32" HOLES  
2 1/4" PITCH.

2 OFF  
MAIN BOILERS

SCALE - 1" = 1 FOOT.

TOTAL HEATING SURFACE (2 BLRS) 5720<sup>sq</sup>  
" GRATE " ( " ) 137<sup>sq</sup>  
FIREBARS 5'-8" LONG.

SURVEY - LLOYDS.

11/4/13

STAYS MARKED ARE 2 1/4" DIAM.  
NETT AREA 3.09" - 9 THREADS

15/16" RIVETS 3/32" HOLES 3" PITCH.

BACK STAYS MARKED ARE 2" DIAM. NETT AREA 2.41"  
" " " 1 1/8" " " 2.36"

REMAINDER OF STAYS 1 3/4" " 2.03"  
ALL OF IRON SCREWED 9 THREADS PER INCH.

MANHOLE  
16' x 12'

FLANGE 3/4" DEEP

N<sup>o</sup> 926.



Messrs Swan Hunter & Wigham  
Richardson Ltd No 926.

2 Main Boilers 16-0 180 lbs



SS. "MYBER"

NEWCASTLE-ON-TYNE.

Report No 65734

RETAIN

W1338-0066



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Foundation