

The technical drawing consists of two views of a mechanical component.

- Side View (Left):** Shows a cross-section of the part. It has a total width of $7\frac{1}{2}$ " at the base, which tapers to $7\frac{1}{8}$ " at the top. The height is divided into three sections: $1\frac{1}{2}$ " at the bottom, $1\frac{1}{8}$ " in the middle, and $1\frac{1}{2}$ " at the top. A fillet with a radius of $R \cdot 0.4$ connects the bottom section to the middle one. A central hole is shown with a diameter of $\phi 1.6$ ".
- Top View (Right):** Shows the plan of the part. It is a square with overall dimensions of $9' \times 9'$. Inside the square are concentric circles and squares representing different features. Key dimensions include:
 - An outer square with side length $2\frac{1}{2}"$.
 - A circle with diameter $\phi 2\frac{1}{2}"$.
 - A square with side length $2"$.
 - A circle with diameter $\phi 1\frac{1}{2}"$.
 - A square with side length $1\frac{1}{2}"$.
 - A central circle with diameter $\phi 1\frac{1}{2}"$.
 - Various other circular features with diameters like $\phi 1\frac{1}{8}"$, $\phi 1\frac{1}{4}"$, and $\phi 1\frac{1}{2}"$.
 - Radial distances from the center to various points are labeled as $1\frac{1}{2}"$, $1\frac{1}{4}"$, $1\frac{1}{8}"$, and $1\frac{1}{2}"$.

MATERIAL	THK ^s	TENSILE STRENGTH	GRATE AND HEATING SURFACES	SQ. FT.
SHELL PLATES	1 3/8	28 - 32 TONS / P ²	HEATING SURFACE IN 386 TUBES	1998
INNER BUTTSTRAPS	1 1/8	" " "	" " " C.CHAMBERS	264
OUTER	1 5/8	" " "	" " " FURNACES	162
GIRDER PLATES	3 1/2	" " "	TOTAL H.S. IN ONE BOILER	2424
FRONT BOTTM ² END	3 1/2	26 - 30	" " " 3 BOILERS	7272
BACK	3 1/2	" " "		
TOP ENDS	1 1/4	" " "	FIREBARS 5'-6" LONG IN ONE LENGTH	
BACK TUBE PLATE	2 3/8	" " "	GRATE SURFACE IN ONE BOILER	591
C.C. BACKS	2 3/8	" " "	" " " 3 BOILERS	1773
C.C. TOPS & SIDES	2 3/8	" " "		
FURNACES	1 1/8	" " "	RATIO G.S. : H.S. :: 1:41	
COMPEN ² PLATE	1 1/8	" " "		
COVER PLATE	2 3/8	" " "	2'-3 1/2" DIA. SAFETY VALVES ON EACH BLR.	
SCREWED STAYS	3/8	" " "	TO BURN COAL OR OIL	
SOLID STEEL STAYS		28 - 32		

SEAM	RIVET DIA.	HOLE DIA.	PITCH	PLATE %	RIVET %	WORKING PRESS. BY RULE
LONGITUDINAL	$\frac{1}{2}$	$\frac{1}{4}$	$8\frac{1}{2}$	86.0	87.6	183 LBS/SQ IN.
CIRCUMFER.	$\frac{1}{4}$	$\frac{1}{16}$	3.883	66.1	47	100 LBS/SQ IN.

14'-10" MEAN DIA. 11'-9" MEAN LENGTH.

DRG. №1726

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ENCLOSURE
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180 lbs. W.P.

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GREENOOK Report No 17968.

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