

31:1:01

J. H. DICKINSON & SONS, LIMITED
ENGINEERS
TRAACING NO. 4499
DATE 20.1.01
SUNDERLAND

Heating Surface in 2 Boilers
H. H. F.

[illegible]

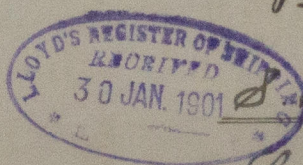
Material	Die	Eff die	Eff Area
Thompson	13	173	2.355
"	2	1857	2.64
Steel	28	22868	4.13
"	28	2.6618	5.57

Hand-drawn diagram of a rectangular structure, possibly a culvert or tunnel, showing dimensions and labels. The diagram is oriented vertically with a dashed centerline.

- Top Section:**
 - Overall width: 3' 6"
 - Overall height: 3'
 - Internal width: 2' 6"
 - Internal height: 1' 8" Long
 - Label: 1st off
- Middle Section:**
 - Overall width: 3'
 - Overall height: 3'
 - Internal width: 2' 6"
 - Internal height: 1' 4"
 - Label: Plain Tubes $N \approx 8$ WE
- Bottom Section:**
 - Overall width: 3' 6"
 - Overall height: 3'
 - Internal width: 2' 6"
 - Internal height: 1' 8" Long
 - Label: 3rd off
- Bottom Section Details:**
 - Label: 1st 2' 4' "
 - Label: 5' 10" thick
 - Label: Efff Area 2.255 \square
 - Label: screwed 10 threads per inch.

Manhole in Shell $16" \times 12"$
Stiffening Ring $8\frac{5}{8} \times 1\frac{3}{16}$ 32
rivet holes $\frac{5}{16}"$ dia.

Pickersills & Sons S/s 133
Main Boiler 180 lbs Wt
J. Dickinson & Sons
Engine No 545



S. S. "Tonbridge"

Sunderland. N^o 20597.



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Foundation

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