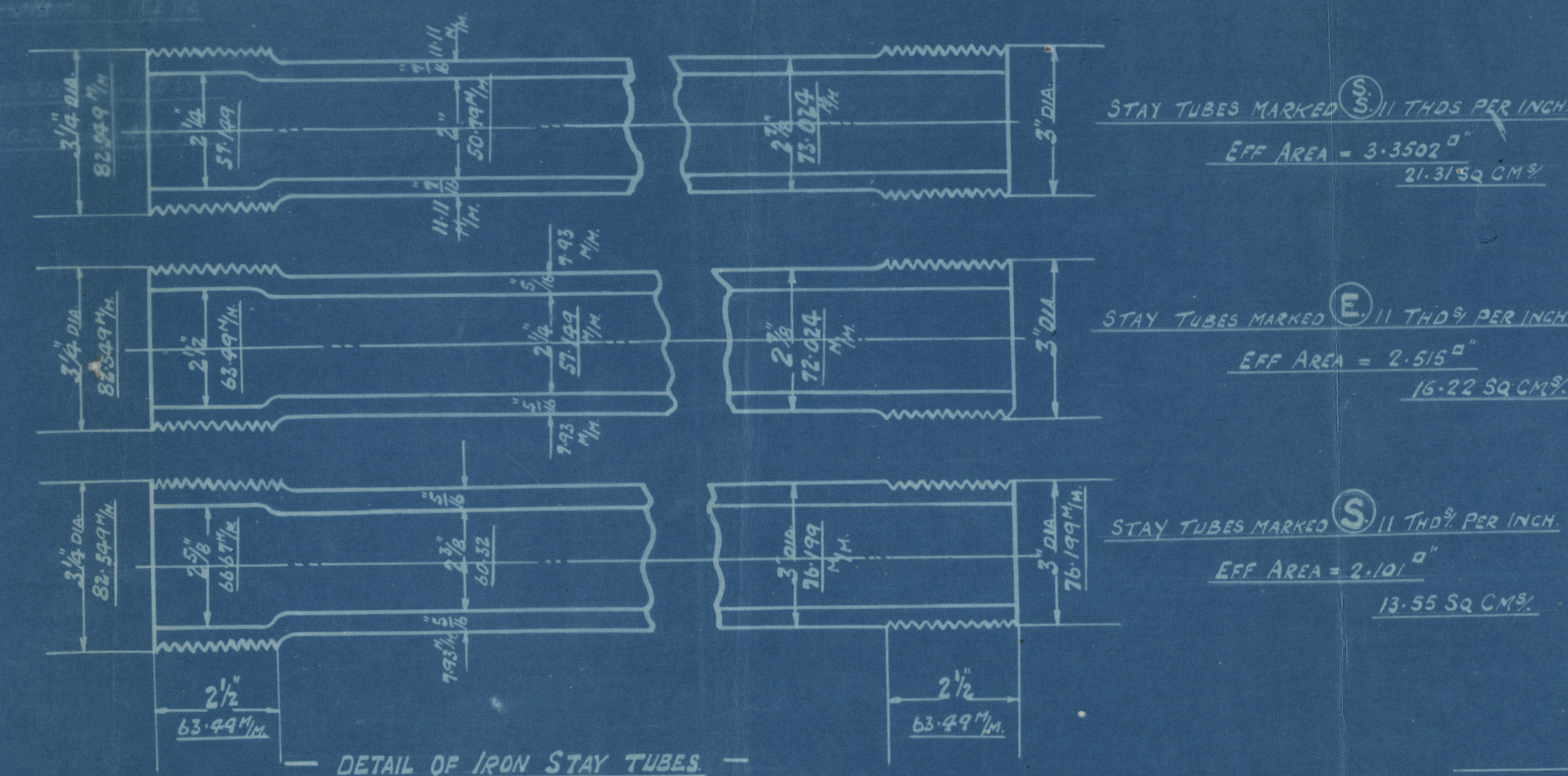


HEATING SURFACE	Sq Ft	Sq METRES
376 TUBES 7'-9" LONG X 3" EXT DIA 22.88		21.510
6 FURNACES X 4 1/2" MEAN 188		17.510
FIREBOX TOPS & SIDES 208		19.322
BACKS 73		6.689
BACK TUBE PLATES 50		4.695
FRONT 45		4.180
TOTAL H.S. IN ONE BOILER = 2851		264.556
FOR 2 BOILERS = 5702		529.112
TOTAL H.S. IN TWO D.E. & TWO S.E. BOILERS = 16504 Sq. Ft.		1538.74 Sq. METRES

GRATE SURFACE	Sq Ft	Sq METRES
6 FURNACES 40" INSIDE DIA X 5'-3" BARS 70		6.503
TOTAL G.S. IN TWO S.E. BOILERS = 130.6		12.118
H.S. = 40.47	T.S. = 32.49	FOR S.E. BOILERS
G.S. = 130.6	T.S. = 106.98	FOR D.E. BOILERS
TOTAL G.S. IN TWO D.E. & TWO S.E. BOILERS = 620.56		Sq. Ft.

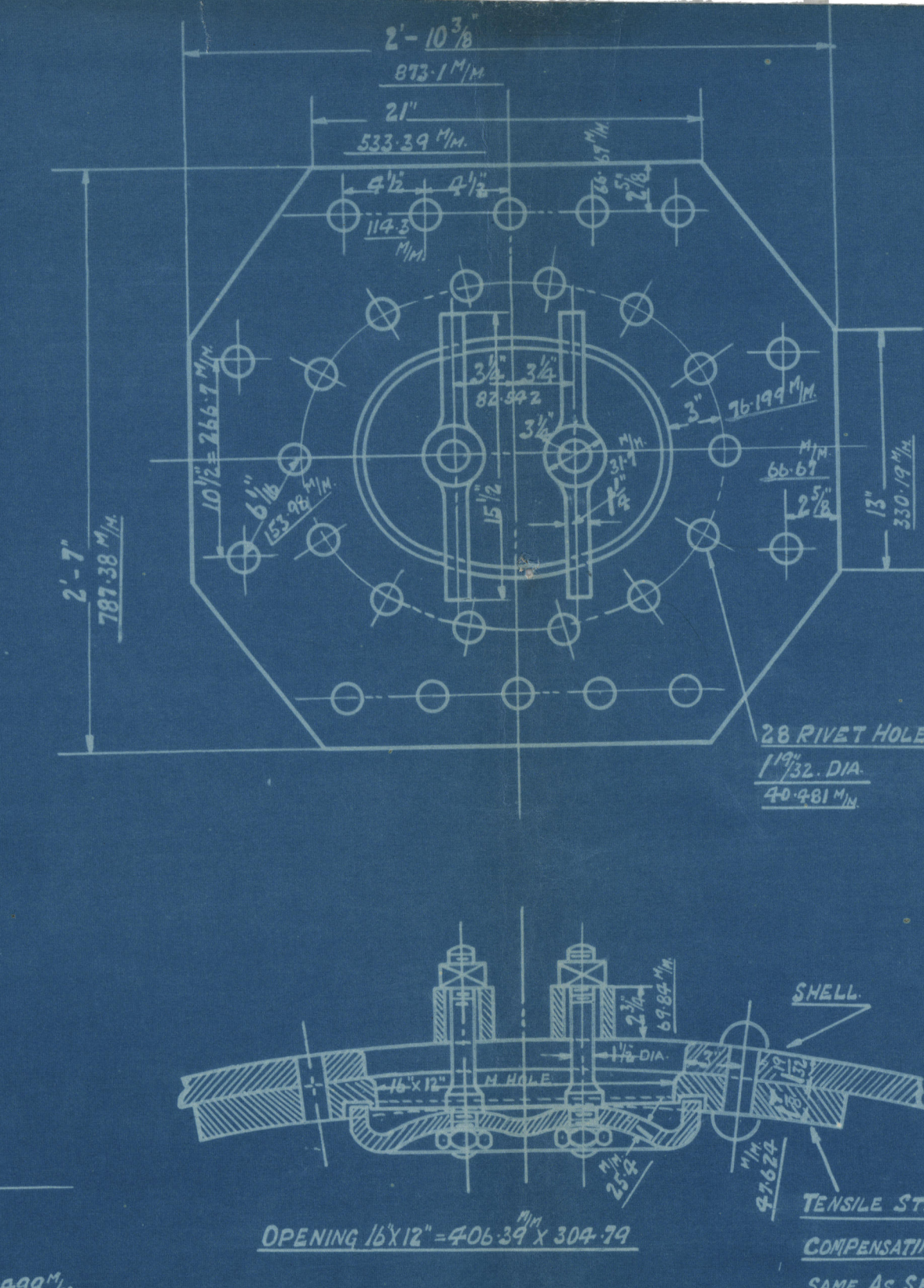
STEAM SPACE FROM 9" ABOVE FIREBOX TOP = 640 CUBIC FT.	13.01 CUBIC METRES
WEIGHT OF FRESH WATER VAPOR = 29 TONS	26646 KILOGRAMS
DAUGHT AREA TWO TUBES 13.65 Sq. Ft.	1.268 Sq. METRES

HEATING SURFACE  
TO DUTCH GOVERNMENT RULE, 45 METRES  
TUBES 7'-9" LONG X 3" EXT DIA = 1744 = 102.44  
IN OTHER PARTS TAKEN  
2" BELOW FURNACE CENTRE = 4.18 = 38.64  
TOTAL H.S. IN 1 BOILER = 2180.05 S.F. 211.1

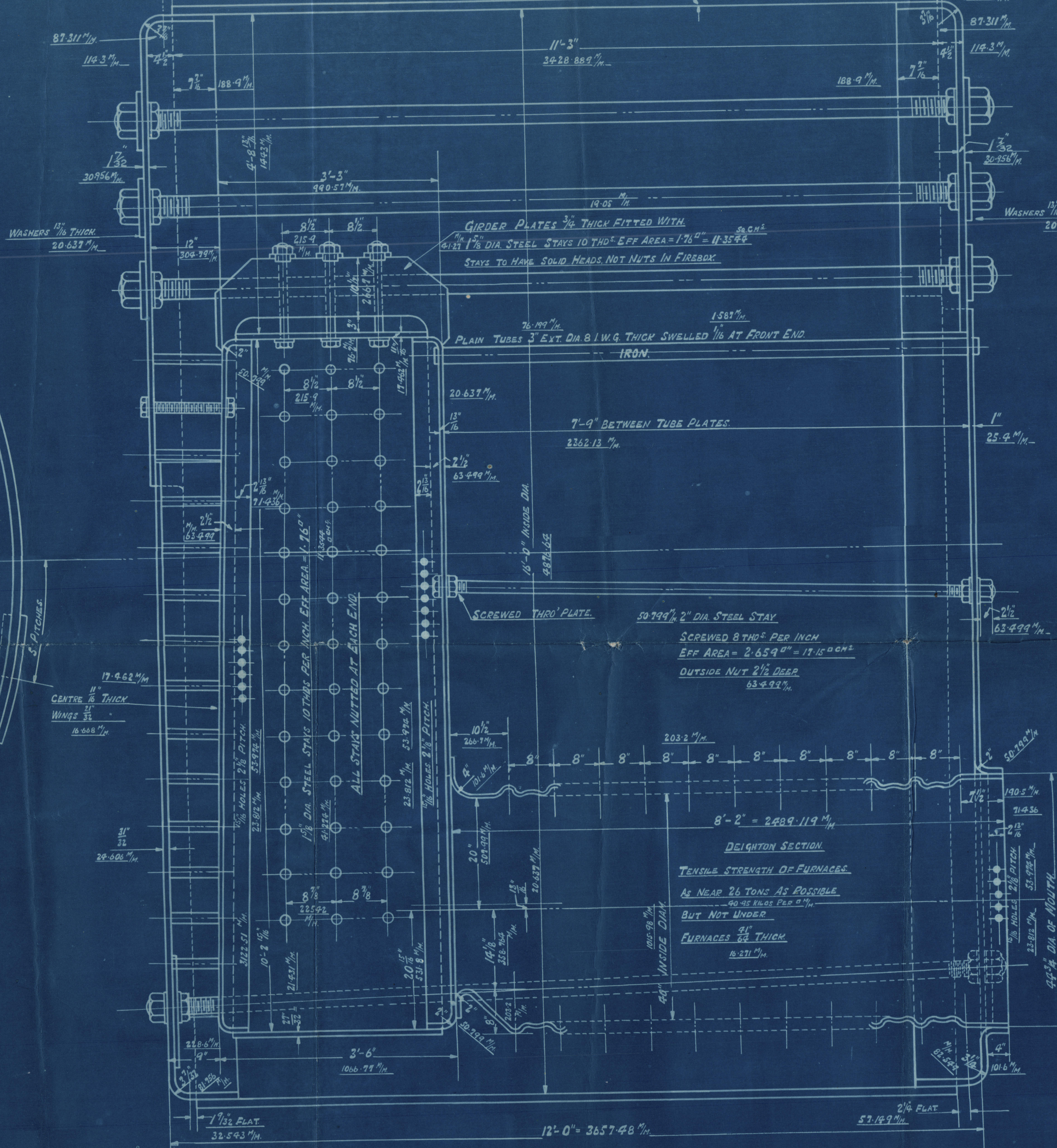
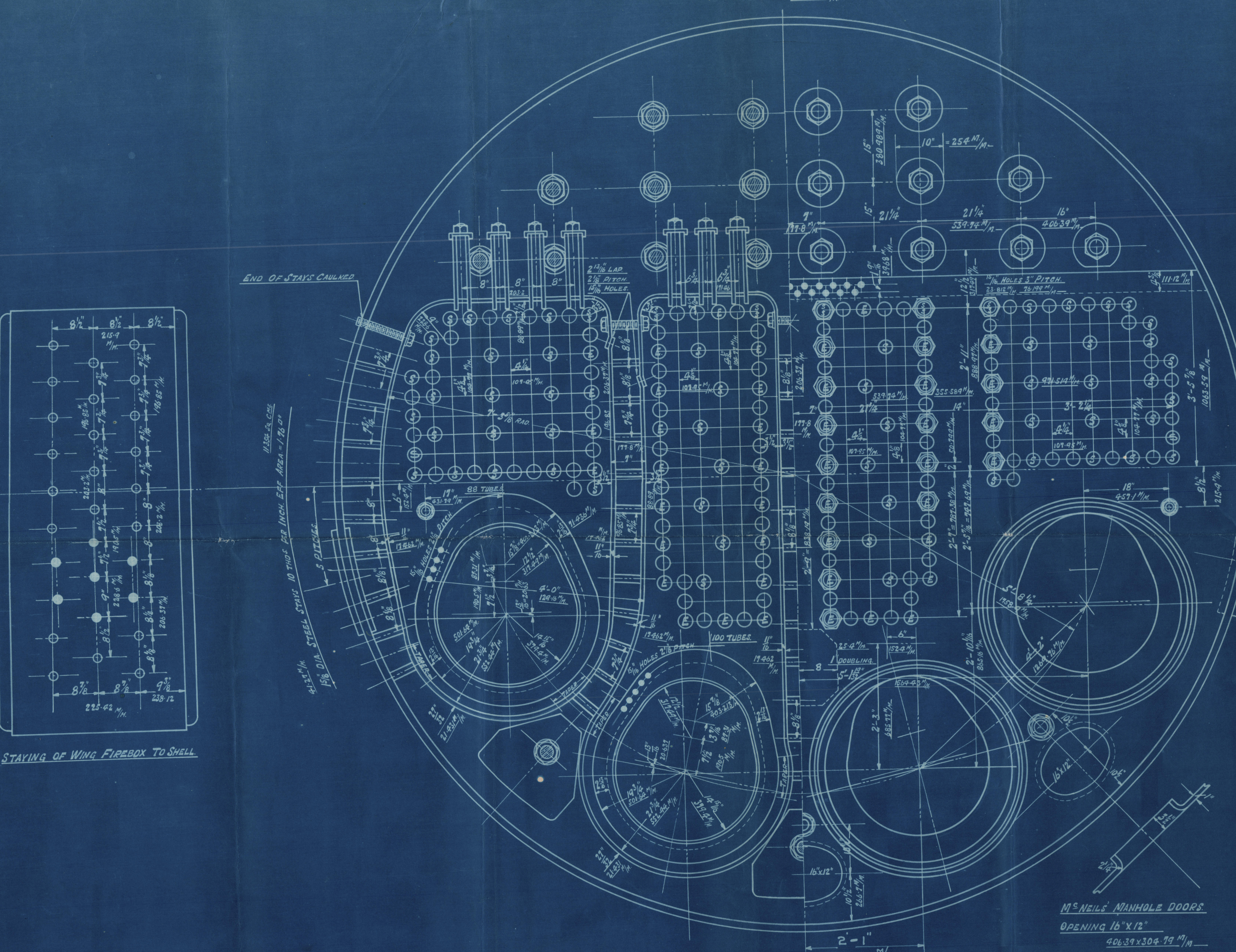


STEEL STEAM SPACE STAYS  
MINIMUM TENSILE STRENGTH OF STAY BARS 28 TONS PER SQ. IN. = 44.1 KILOGS PER CM<sup>2</sup>  
STEEL STAYS 3/8" DIA. 6 TUBES EFF. AREA = 6.66" = 79.37 CM<sup>2</sup> DIA EFF. AREA = 42.967 CM<sup>2</sup>  
DEPTH OF OUTSIDE NUTS = DIA OF STAY  
INSIDE = 1 1/2"  
38.049" IN

TENSILE STRENGTH OF SHELL PLATES & BUTTSTRAPS 28 TONS PER SQ. INCH. = 44.1 TO 50.4 KILOGS PER CM<sup>2</sup>  
GIRDER PLATES 28 TO 32 = 44.1 TO 50.4  
ALL OTHER PLATES 28 TO 30 = 44.1 TO 50.4  
ALL RIVET HOLES DRILLED IN PLACE  
OUTER BUTTSTRAPS 1/8" THICK INNER 1/4" THICK

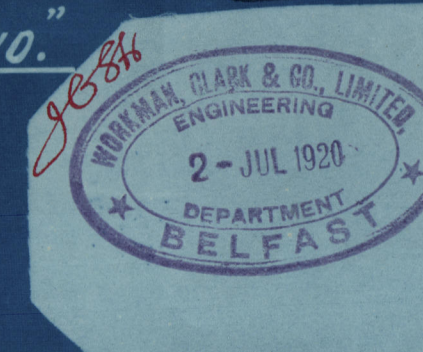


NO	STAKE	DESCRIPTION	LENGTH	BREADTH	THICK
2	A	SHELL TOP		15 1/2"	1 1/2"
2	B	BOTTOM			
4	C	BUTTSTRAPS OUTER	11' - 3"	23 1/2"	1 1/2"
4	D	INNER	10' - 3 1/2"		1 1/2"
4	E	GIRDERS	15' - 9"	41"	3 1/2"
2	F	TOP FRONTS			1 1/2"
2	G	FURNACE FRONTS			1"
2	H	TOP BACKS			1 1/2"
2	J	BOTH BACKS			3 1/2"
2	K	CS BACK TUBE PLATES			1 1/2"
4	L	WING			1 1/2"
2	M	CS FIREBOX BACKS			1 1/2"
4	N	WING			3 1/2"



WORKMAN, CLARK & CO. LTD  
ENGINE DEPT. BELFAST.  
DRAWING NO. E4014 DATE 30-6-20  
DRAWN BY  
CHECKED BY  
TRACING CHECKED BY

TO PASS "BOARD OF TRADE" LLOYDS 'REGISTRO ITALIANO'.  
(B.C.) & DUTCH GOVERNMENT SURVEYS  
No 379.  
S. E. MAIN BOILERS.  
SCALE: 1" = 1 FOOT  
2 1/2" = 300.79 MM





Belfast

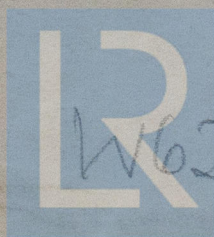
Wor Kinnaird Clark & Coys

SS. 379

P. End. Ballers

T.S.S. Orania

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