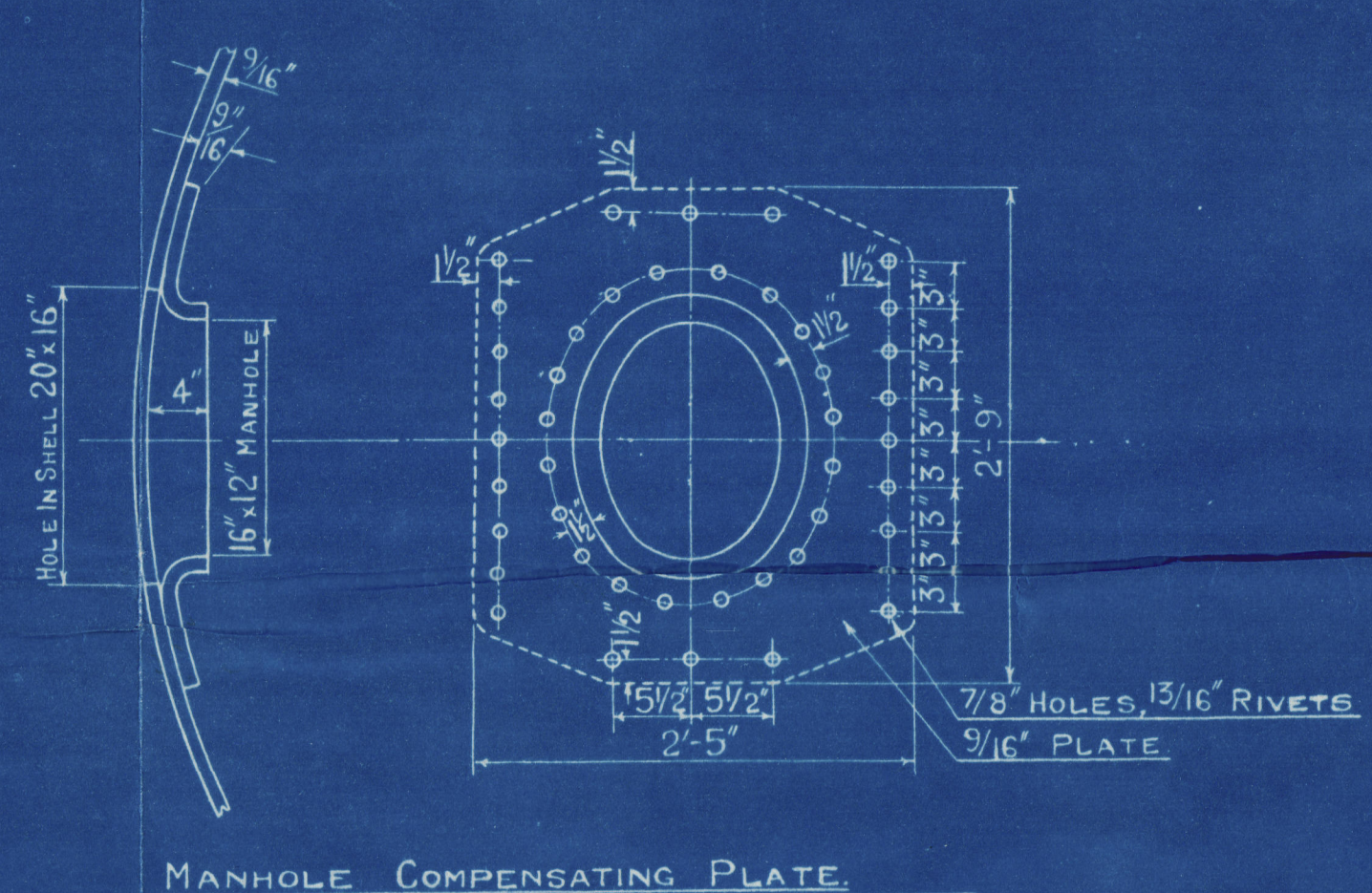
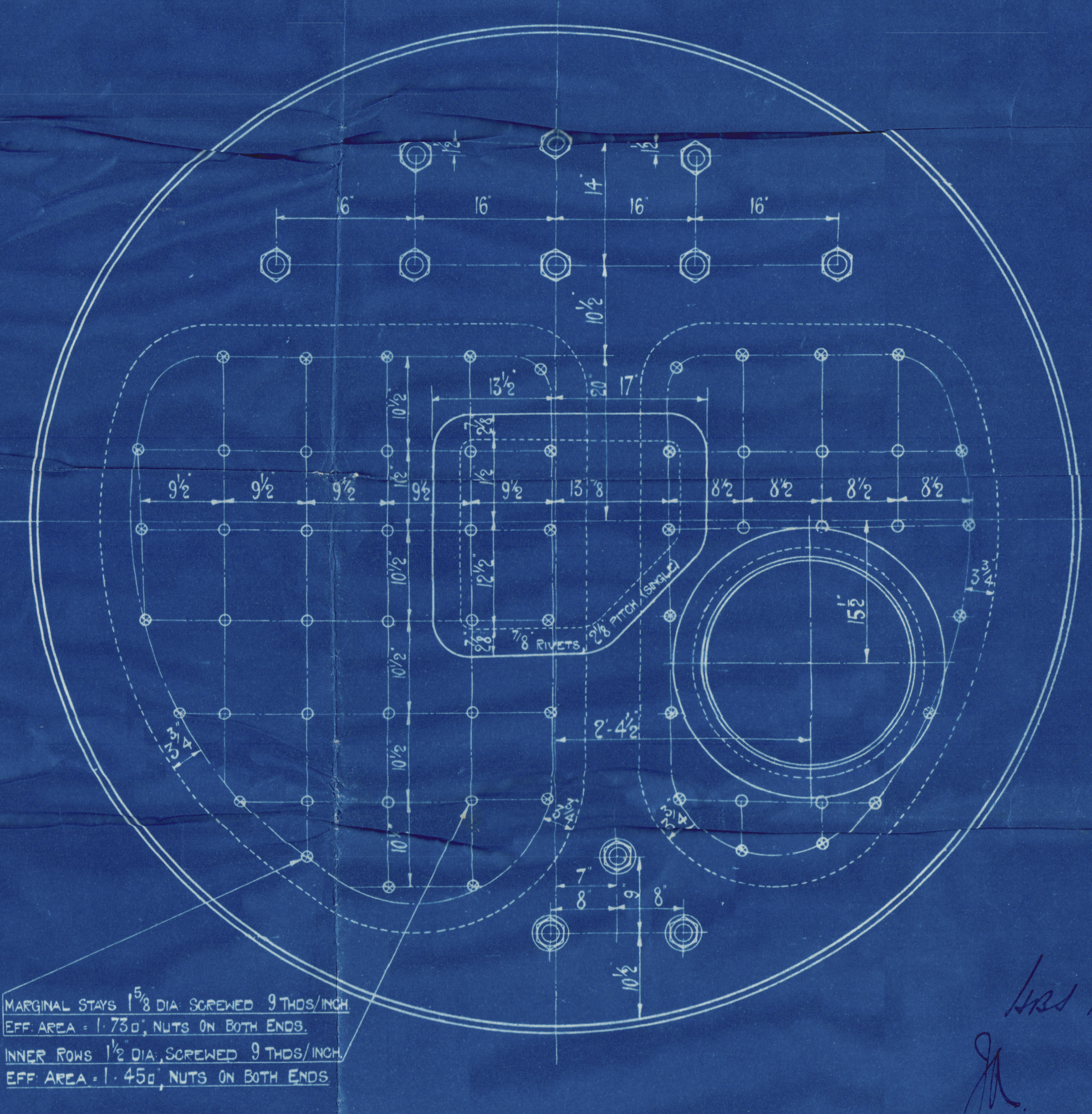
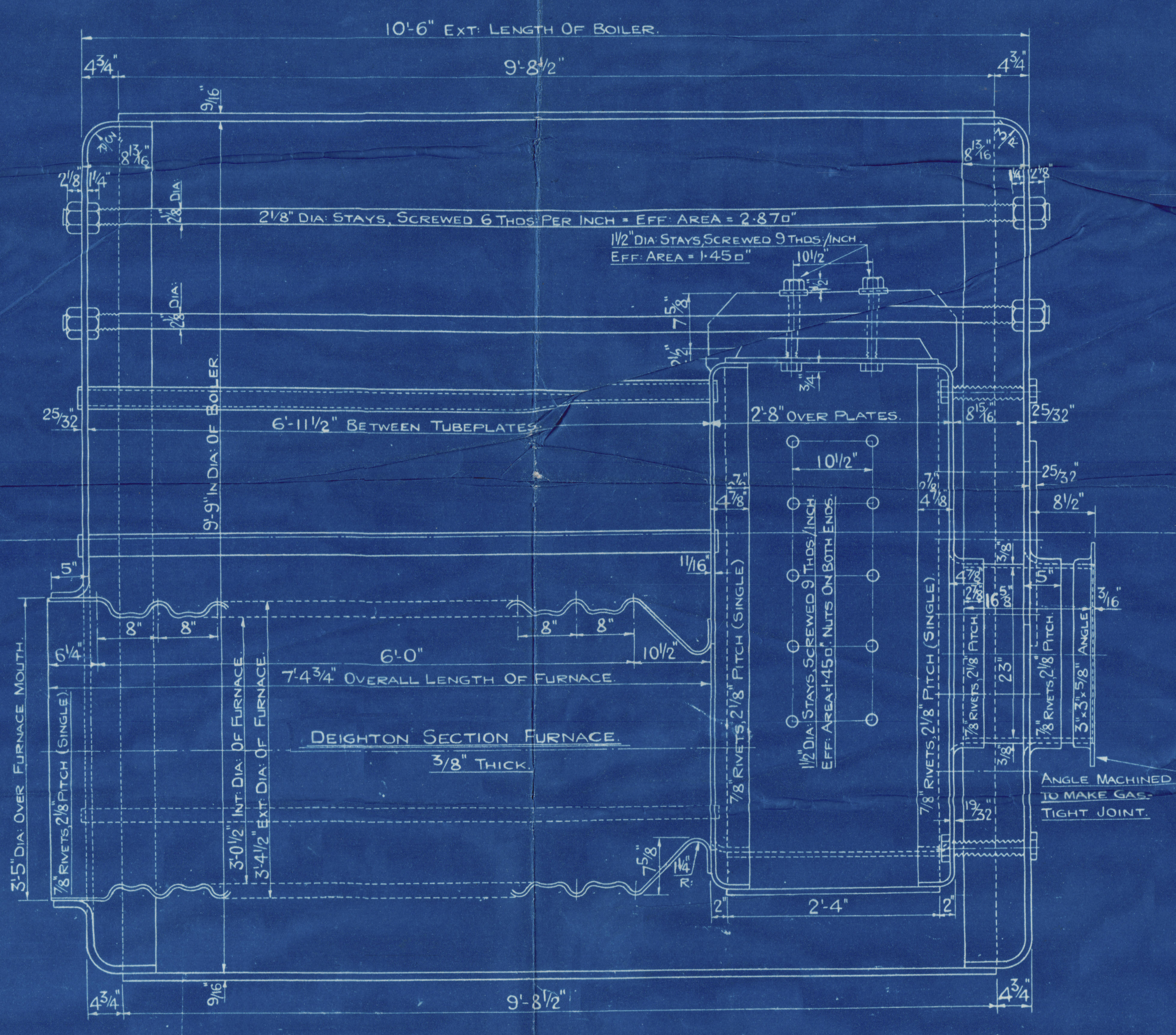
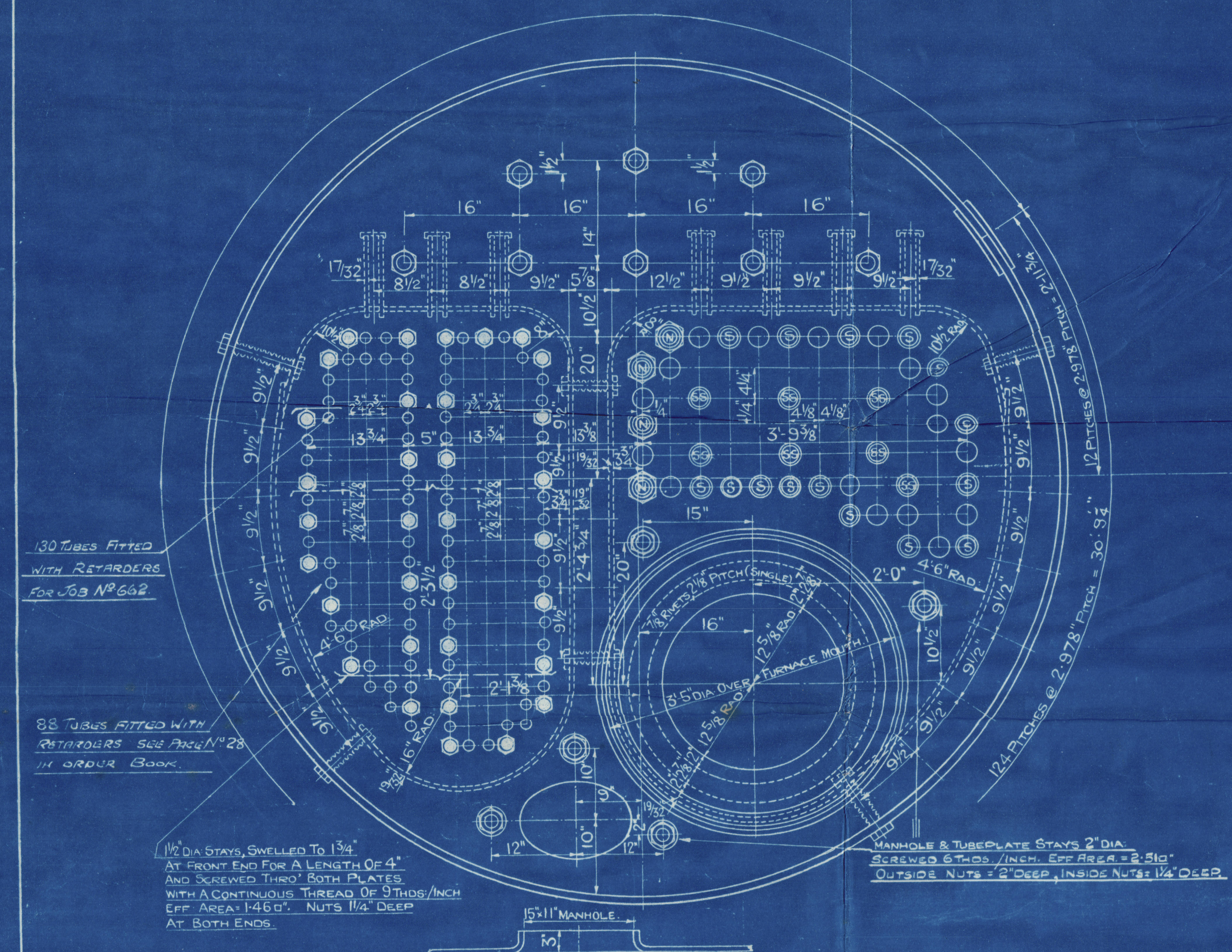


17 MAR 1937



- LIST OF TUBES REQUIRED.
- 49 PLAIN TUBES, 3' EXT. DIA. x 10 WG. THICK, SWELLED 1/16" AT FRONT END.
 - 4 STAY TUBES, 3' EXT. DIA. x 3/8" THICK, SWELLED 1/4" AT FRONT END & SCREWED THRO' BOTH PLATES. NUTS ON FRONT END MARK "N".
 - 15 STAY TUBES, 3' EXT. DIA. x 3/16" THICK, SWELLED 1/4" AT FRONT END & SCREWED THRO' BOTH PLATES. NUTS ON FRONT END MARK "S".
 - 7 STAY TUBES, 3' EXT. DIA. x 1/4" THICK, SWELLED 1/4" AT FRONT END & SCREWED THRO' BOTH PLATES. MARK "SS".
 - 75 = TOTAL NO. OF TUBES IN OIL FIRED PART.
- NOTE:- ALL STAY TUBES SCREWED WITH A CONTINUOUS THREAD OF 9 THRS/INCH. EXHAUST HEAT PART:-
- 185 PLAIN TUBES 1 3/4" EXT. DIA. x 11 WG. THICK, SWELLED 1/16" AT FRONT END.



SURFACES	
OIL BURNING PART:-	
HEATING SURFACE OF TUBES	413 sq. Ft.
" " " FURNACES	41 " "
" " " C.C. TOP & SIDES	36 " "
" " " C.C. BACKS	19 " "
" " " C.C. TUBEPLATES	11 " "
TOTAL HEATING SURFACE	520 sq. Ft.
EXHAUST HEAT PART:-	
HEATING SURFACE OF TUBES	594 sq. Ft.
" " " INLET	7 " "
" " " C.C. TOP & SIDES	34 " "
" " " C.C. BACKS	18 " "
" " " C.C. TUBEPLATES	10 " "
TOTAL HEATING SURFACE	663 sq. Ft.
TOTAL HEATING SURFACE	1183 sq. Ft.
AREA THRO' TUBES	309 sq. ins.
AREA THRO' INLET	415 sq. ins.
AREA THRO' EXHAUST PIPES	254 sq. ins.

	TENSILE STRENGTH	
SHELL PLATE	20-33 TONS/D	SIEMENS MARTIN STEEL.
BUTTSTRAPS	29-33 " "	
GIRDER PLATES	28-32 " "	
MANHOLE COMP. PLATE	28-30 " "	
ALL OTHER PLATES	26-30 " "	
FURNACES	26-30 " "	
LONGSTAY STAY BARS	28-32 " "	
SCREWED STAY BARS	26-30 " "	
RIVET BARS	26-30 " "	

TUBES OF HOT ROLLED WELDLESS STEEL.

	PITCH	DIA. OF HOLES	NO. OF RIVETS	PLATE %	RIVET %	COMBINED %	W. OF SHELL BY RULES
LENGTH SEAM	5-0"	3/4"	1/16"	85-0	98-05	89-61	122 LBS/D"
CIRCUM. SEAM	2-9 7/8"	1 3/16"	3/4"	72-71	49-05	-	-

INSIDE BUTTSTRAP 3/16" THICK. OUTSIDE BUTTSTRAP 7/16" THICK.

TEST PRESSURE = 230 LBS/D"

S.S. ENGINES N° EW 113.

OIL FIRED AND EXHAUST HEAT BOILER.

9'-9" INT. DIA. x 10'-6" MEAN LENGTH, TO PASS LLOYD'S LATEST TESTS & REQUIREMENTS FOR A WORKING PRESSURE OF 120 LBS/D"

ONE OFF REQUIRED TO EACH N°

SCALE:- 1" = 1 FOOT.

DATE	DRAWN BY	TRACED BY	CHECKED BY	ISSUE TO	DRAWING N°
4.12.35	SGR & EWG.		B.S. DB DE		31

last 17/3/37

11 MAR 1937

~~10~~ Barclay

TPS. EW. 113

oil fired and
Exhaust Gas

Bcr

Chas Connells

Yard 425

Appd plan

EW 113

Nº 20222

Kloyd's Test

230th

WP 120th

GA 5-8-38

W169-0161