

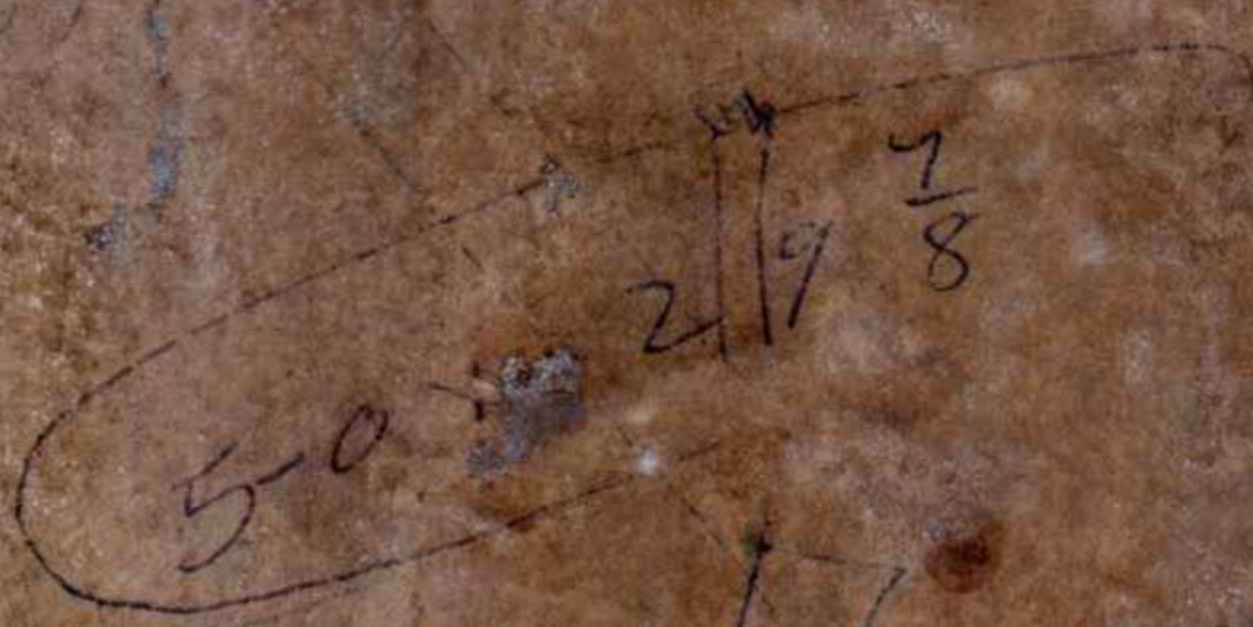
Will

Ref. No. 10298

SHERWIN & CO. (Hanley) LTD.
100, 102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130, 132, 134, 136, 138, 140, 142, 144, 146, 148, 150, 152, 154, 156, 158, 160, 162, 164, 166, 168, 170, 172, 174, 176, 178, 180, 182, 184, 186, 188, 190, 192, 194, 196, 198, 200, 202, 204, 206, 208, 210, 212, 214, 216, 218, 220, 222, 224, 226, 228, 230, 232, 234, 236, 238, 240, 242, 244, 246, 248, 250, 252, 254, 256, 258, 260, 262, 264, 266, 268, 270, 272, 274, 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 296, 298, 300, 302, 304, 306, 308, 310, 312, 314, 316, 318, 320, 322, 324, 326, 328, 330, 332, 334, 336, 338, 340, 342, 344, 346, 348, 350, 352, 354, 356, 358, 360, 362, 364, 366, 368, 370, 372, 374, 376, 378, 380, 382, 384, 386, 388, 390, 392, 394, 396, 398, 400, 402, 404, 406, 408, 410, 412, 414, 416, 418, 420, 422, 424, 426, 428, 430, 432, 434, 436, 438, 440, 442, 444, 446, 448, 450, 452, 454, 456, 458, 460, 462, 464, 466, 468, 470, 472, 474, 476, 478, 480, 482, 484, 486, 488, 490, 492, 494, 496, 498, 500, 502, 504, 506, 508, 510, 512, 514, 516, 518, 520, 522, 524, 526, 528, 530, 532, 534, 536, 538, 540, 542, 544, 546, 548, 550, 552, 554, 556, 558, 560, 562, 564, 566, 568, 570, 572, 574, 576, 578, 580, 582, 584, 586, 588, 590, 592, 594, 596, 598, 600, 602, 604, 606, 608, 610, 612, 614, 616, 618, 620, 622, 624, 626, 628, 630, 632, 634, 636, 638, 640, 642, 644, 646, 648, 650, 652, 654, 656, 658, 660, 662, 664, 666, 668, 670, 672, 674, 676, 678, 680, 682, 684, 686, 688, 690, 692, 694, 696, 698, 700, 702, 704, 706, 708, 710, 712, 714, 716, 718, 720, 722, 724, 726, 728, 730, 732, 734, 736, 738, 740, 742, 744, 746, 748, 750, 752, 754, 756, 758, 760, 762, 764, 766, 768, 770, 772, 774, 776, 778, 780, 782, 784, 786, 788, 790, 792, 794, 796, 798, 800, 802, 804, 806, 808, 810, 812, 814, 816, 818, 820, 822, 824, 826, 828, 830, 832, 834, 836, 838, 840, 842, 844, 846, 848, 850, 852, 854, 856, 858, 860, 862, 864, 866, 868, 870, 872, 874, 876, 878, 880, 882, 884, 886, 888, 890, 892, 894, 896, 898, 900, 902, 904, 906, 908, 910, 912, 914, 916, 918, 920, 922, 924, 926, 928, 930, 932, 934, 936, 938, 940, 942, 944, 946, 948, 950, 952, 954, 956, 958, 960, 962, 964, 966, 968, 970, 972, 974, 976, 978, 980, 982, 984, 986, 988, 990, 992, 994, 996, 998, 1000

Handwritten notes on the left side of the page.

4. 2. 8. 1. 2.



CW/ME/114

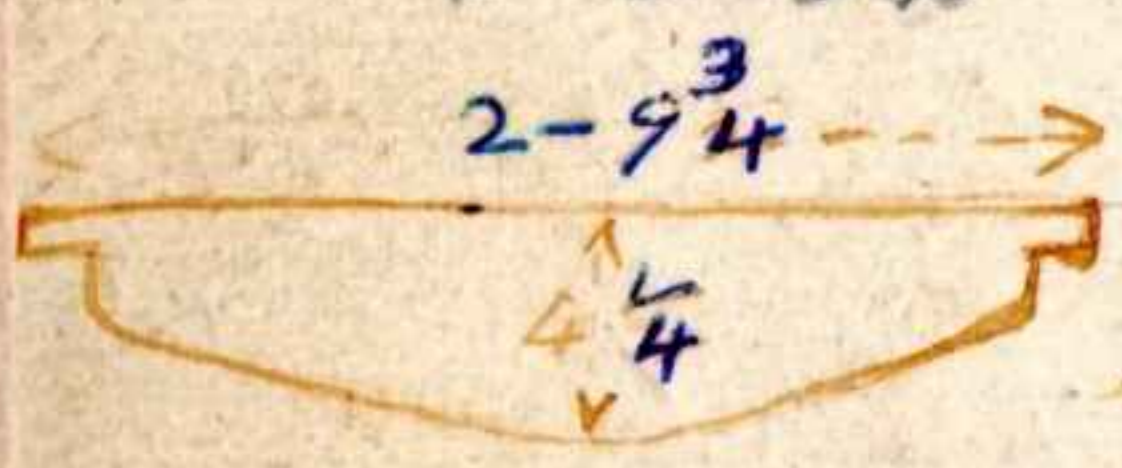
Roger Side Bar for Alice & Minnie 3577 ✓
 " " " " " " " " 3578 ✓
 Phoenix Side " " " " " " " " 3375 ✓
 " " " " " " " " 3376 ✓
 Alice & Minnie Side Bar for Alice & Minnie 3572 ✓

Side Bar for Spring Smith's furnace 4261 ✓
 Side Bar for Alexandra & Minnie 4589 ✓
 Side Bar for Alice Pollock & Kate 4520 ✓

Side Bar for Alexandra 4002

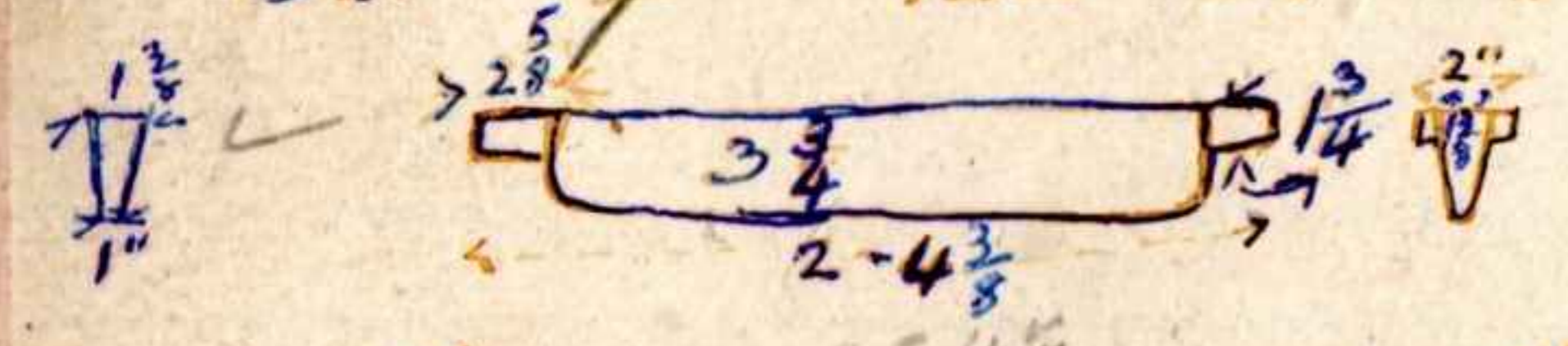
Dolly Side Bar for Alexandra 4237

Side fire Bar Double 2702 ✓
 Middle " " Iron Pattern 2110 ✓



Fire Bar for Alice Pollock & Kate New Patt 4520 ✓

Side Bar for Phoenix New Patt



4532

Side Bar for Brigette Plant 4574 *
 4454 *
 7/8



Side Fire Bar for Roger 3577

Side Fire Bar for Roger

finished with Patt at Dean & Lowry
 ...
 ...
 ...

Spudwell

Spudwell

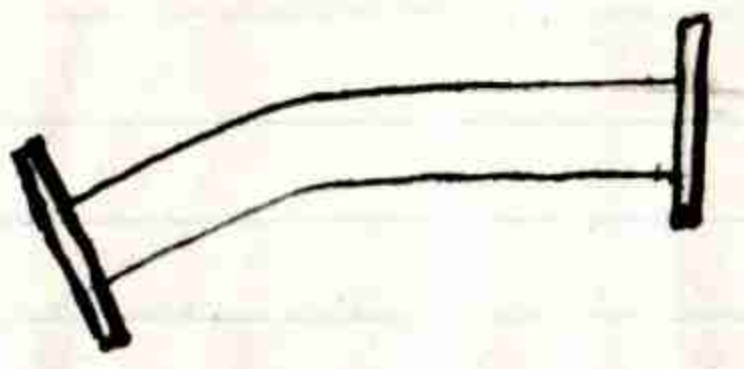
Dean & Lowry

New Boiler Plant

Date Sent

Spudwell

1 Steam Pipe for
Soco Alice
with Oval Slanges.



2528

11

2 1/4 Rod & Cap for Soco Alice
Hoisting Shaft

2527

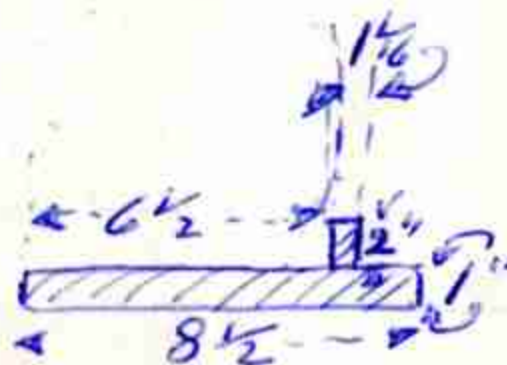
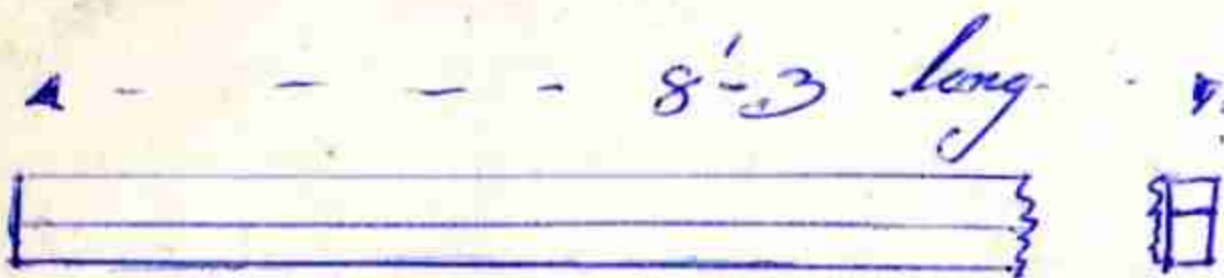
11

1 Check Box for loco Edward & Phoenix

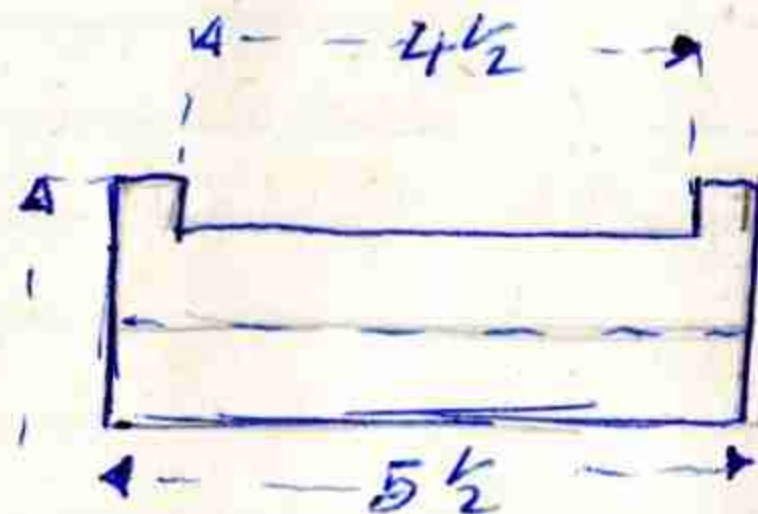
2385

11

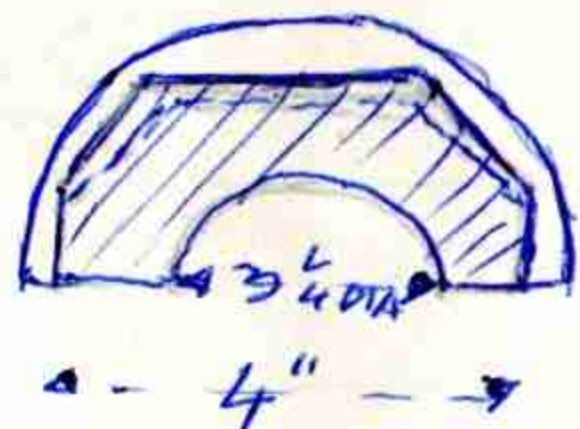




Supporter Pattern, for super heater header,
for Boiler Plant. Pat No - 4639 4689



5/2 DIA flanges.



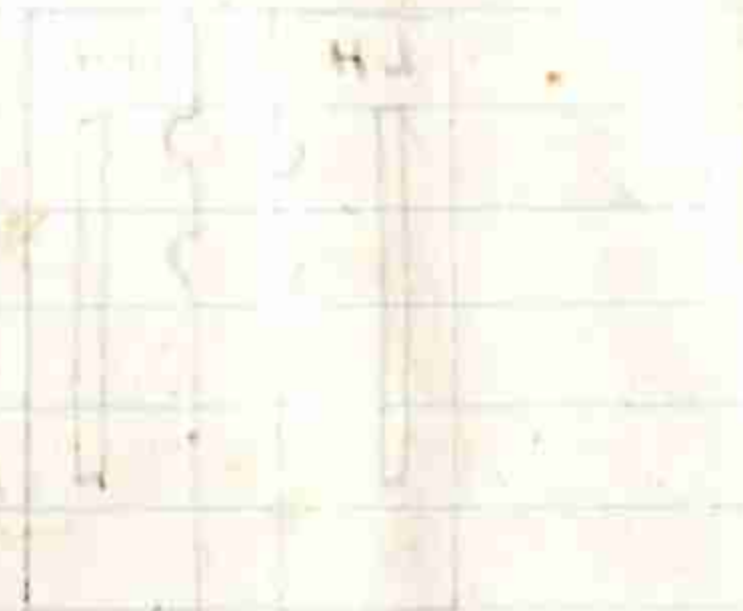
Bearing Pattern for Boiler plant Drags
Gear End.

4649

Pat No

Kensington Eng Co

5/9/61



2-0 1/2

Flange 11 1/8" x 2" THICK

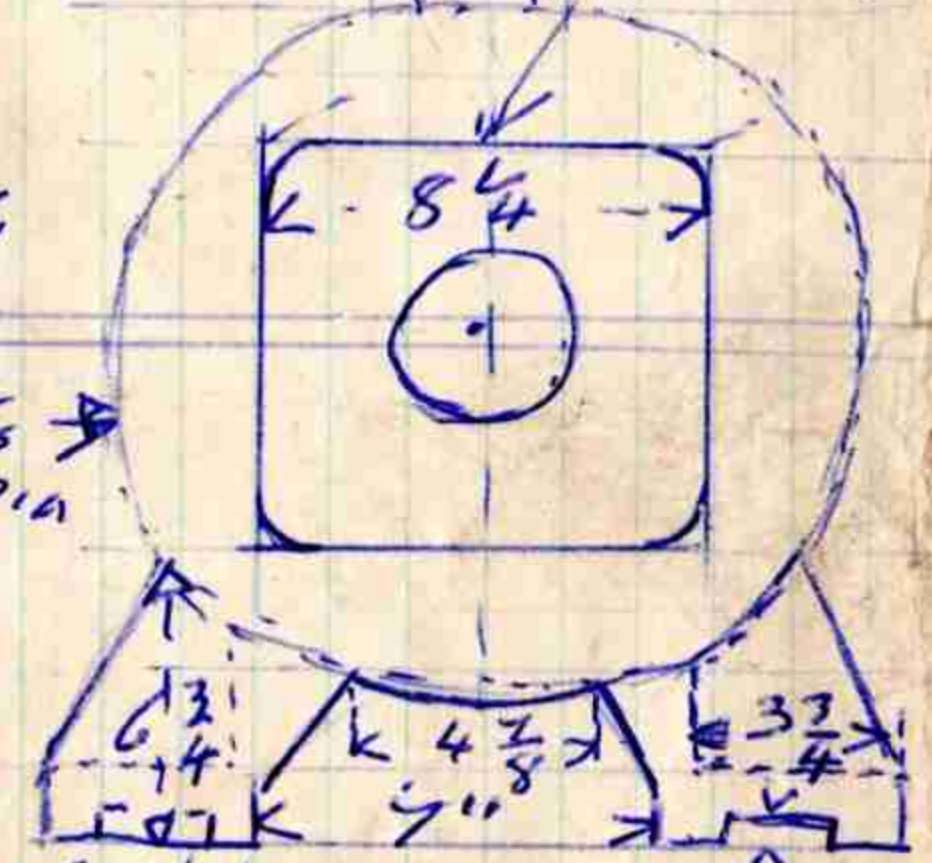
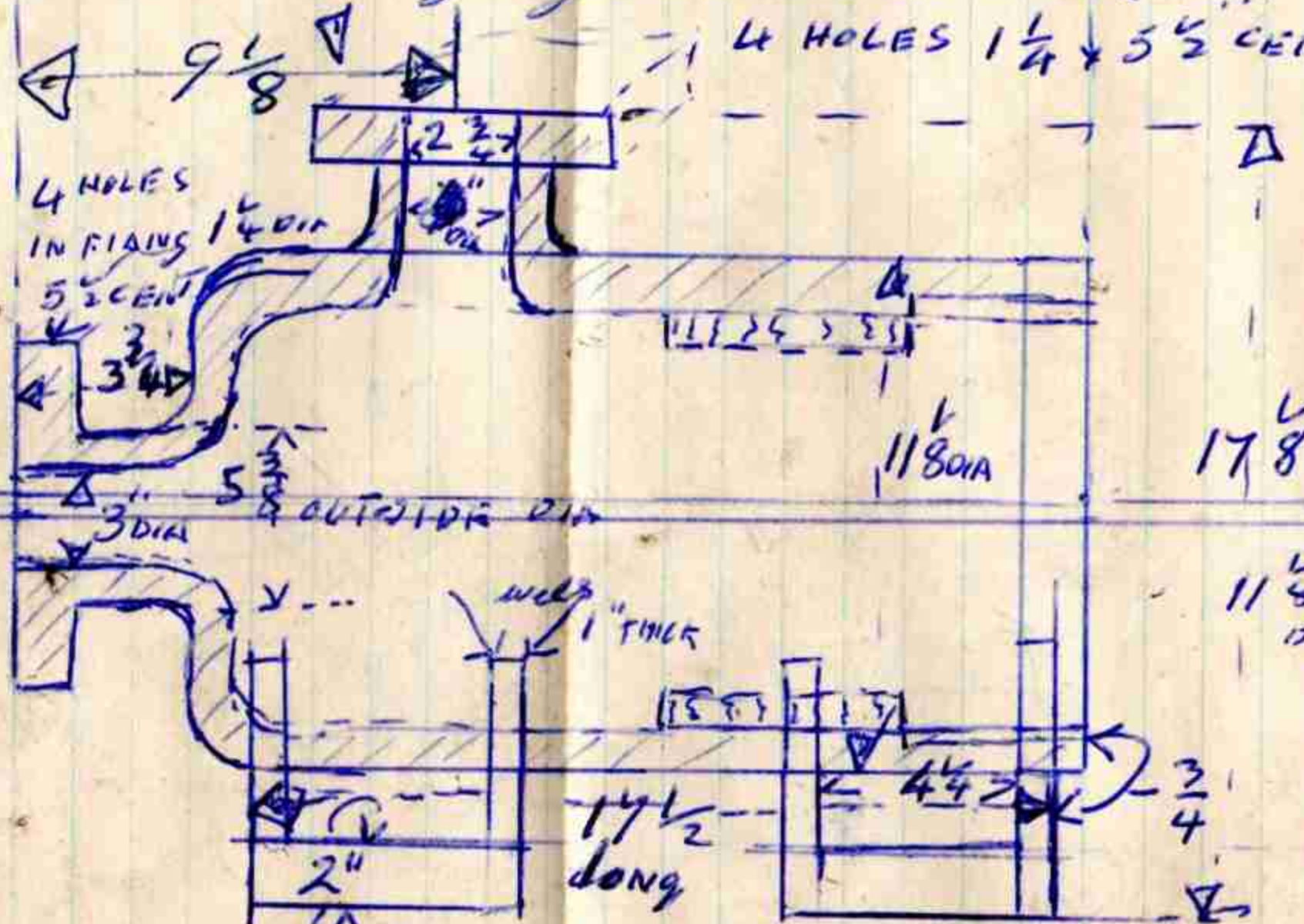
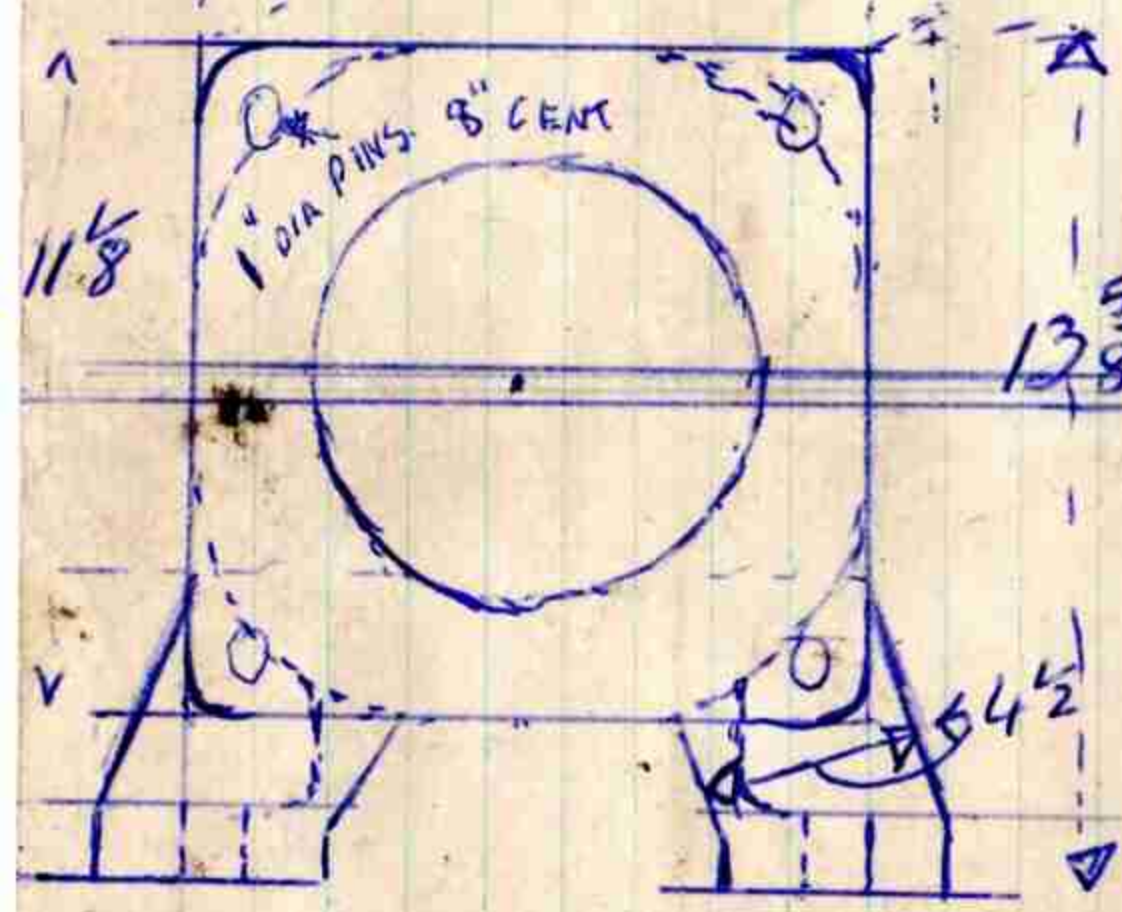
Flange 8 1/4" x 2" THICK

4 HOLES 1 1/4" x 5 1/2" CENT

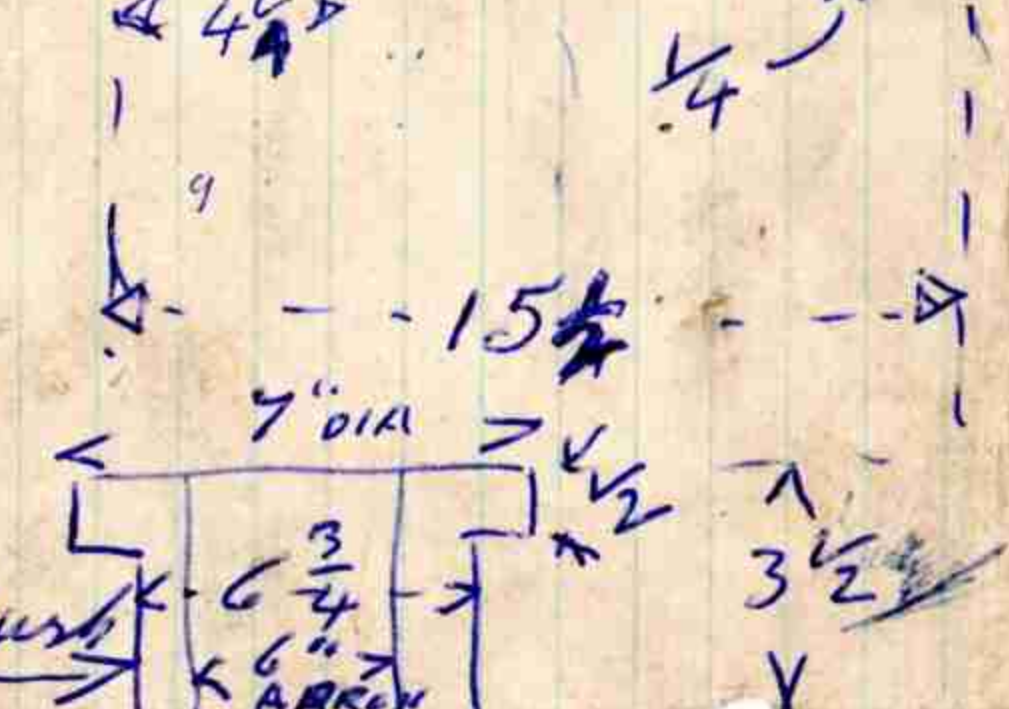
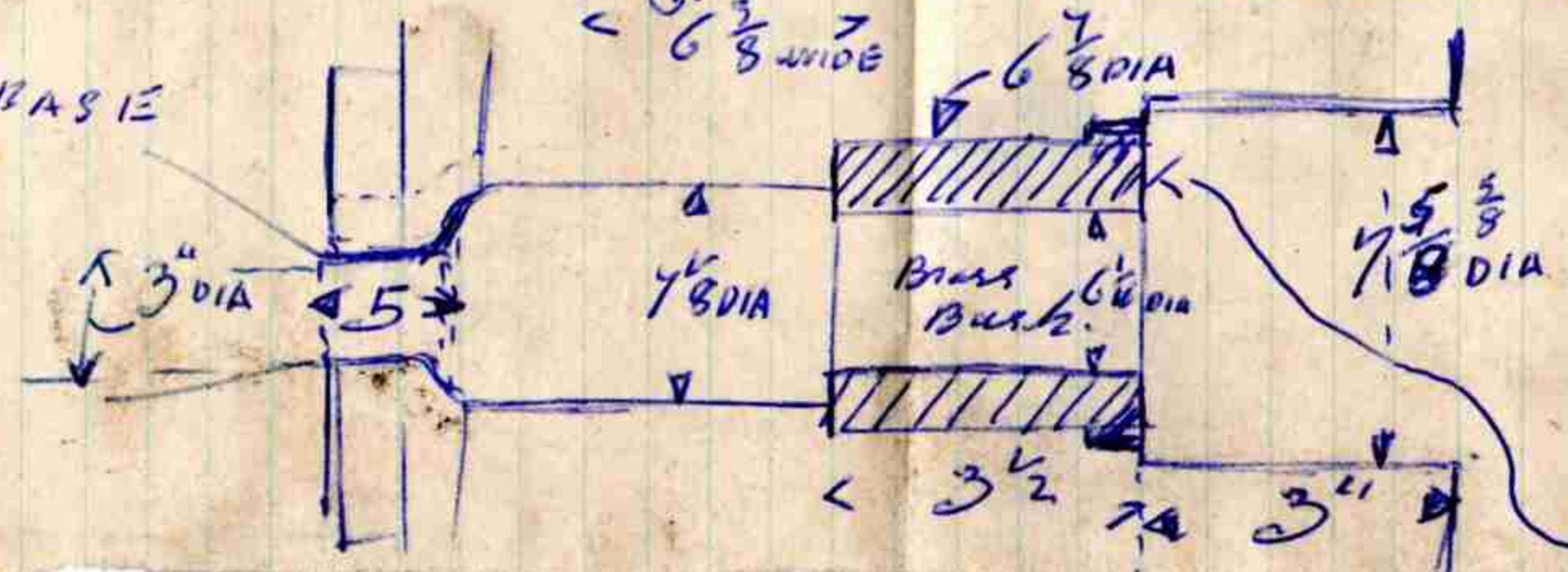
4 1" DIA PINS 8" CENTERS

Flange 8 1/4" x 2" THICK

11 1/8" square



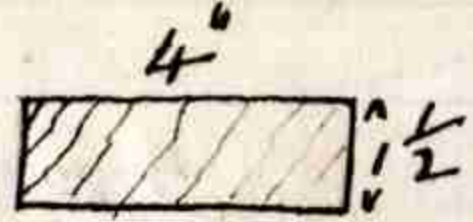
4 HOLES IN BASE
1 1/2" DIA
11 1/4" x 11 1/2"



11-61

MAHOGANY

Fire Bar 4-3 x 4 x 1 1/2

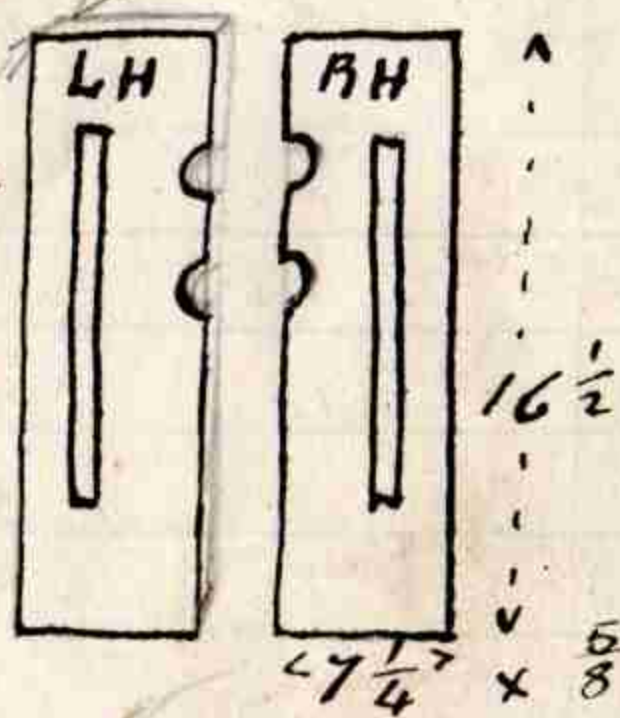


New Boiler Plant

4366

Supr Plates
New Boiler Plant

(1 each Per Set)

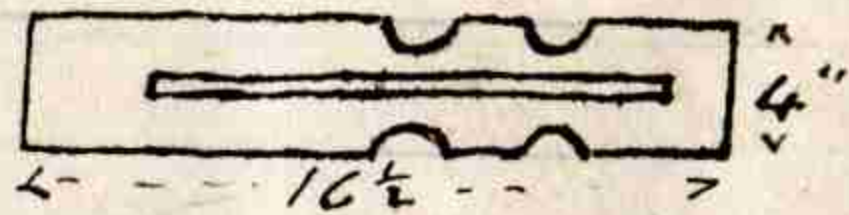


LH 4367

RH 4368

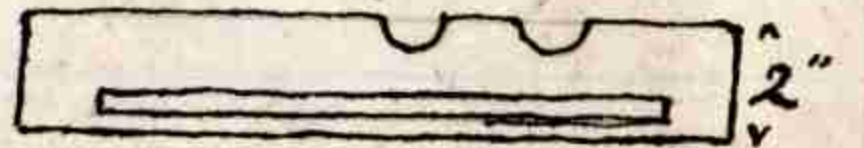
12" R. & L.H.

(18 Per Set)

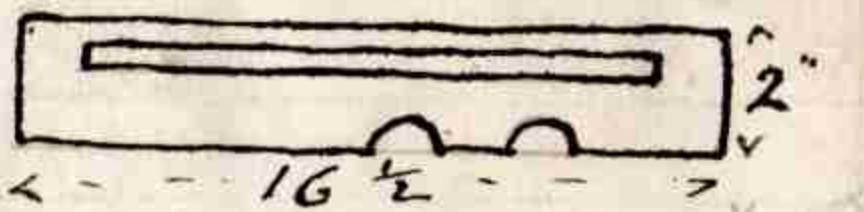


4369

1 each Per Set

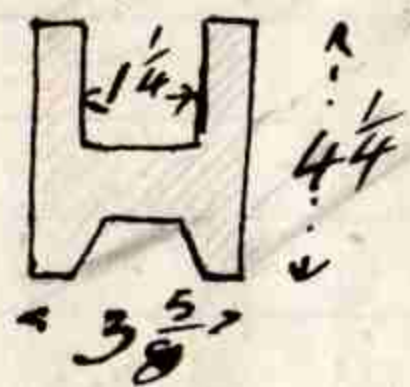
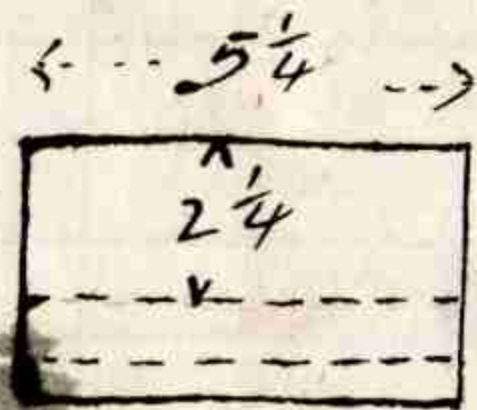


RH 4370



LH 4371

Saddle for
New Boiler Plant



4502

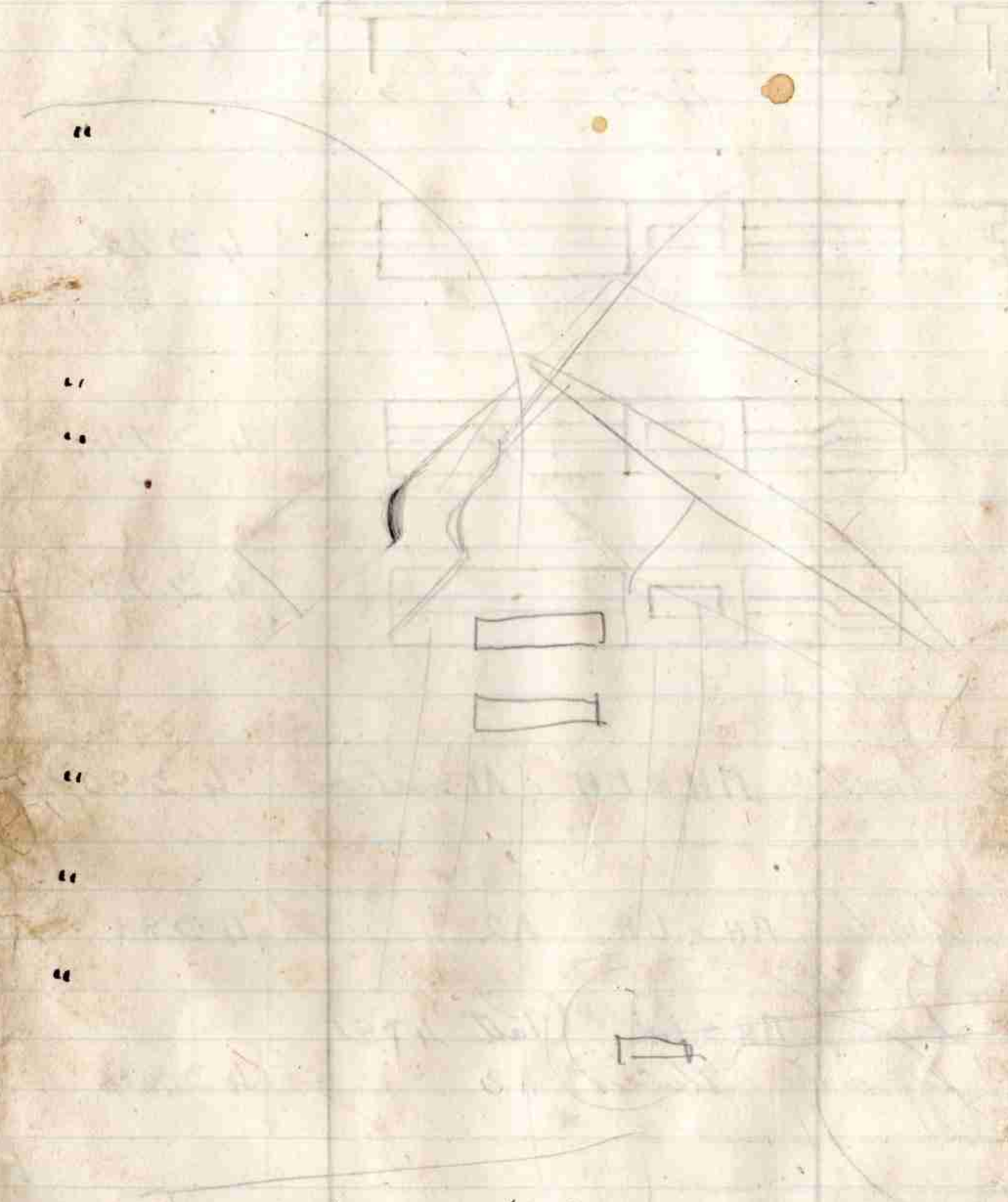
Gyudwell

12/2/42

New Boiler Plant

Returned

Success
for
New Boiler Plant

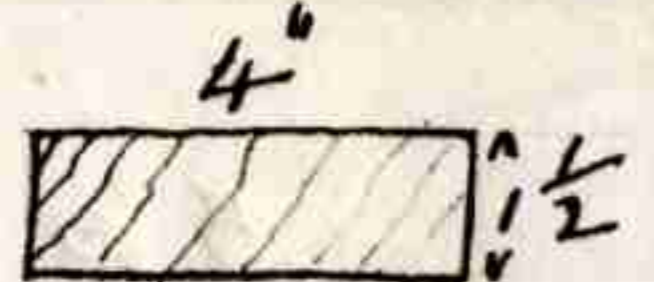


7/3/49

MAHOGANY

Returned

Fire Bar 4-3 x 4 x 1 1/2

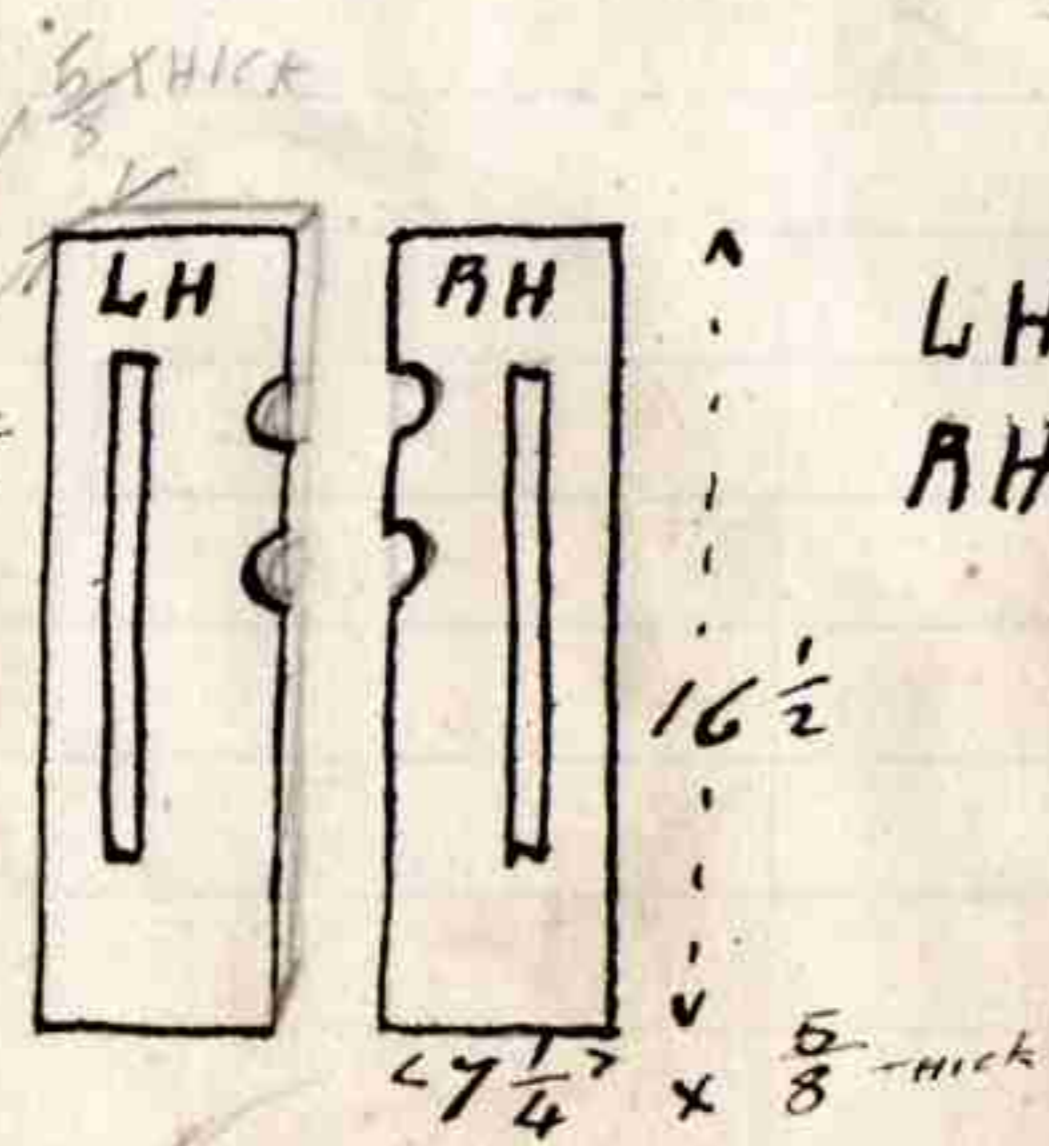


New Boiler Plant

4366

Size Plates
New Boiler Plant.

(1 each Per Set)

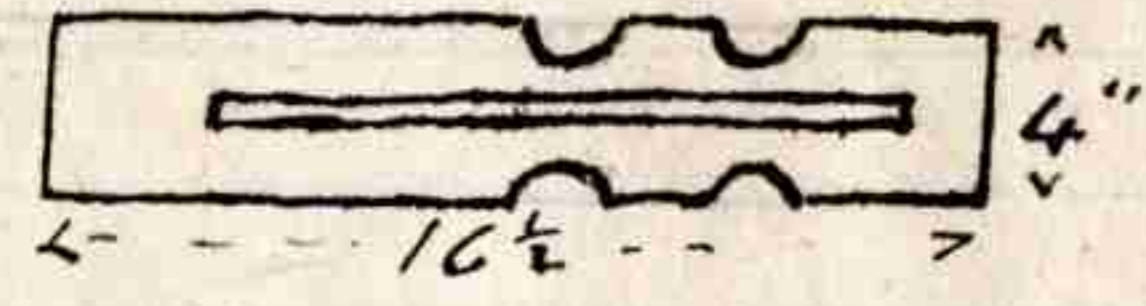


LH 4367

RH 4368

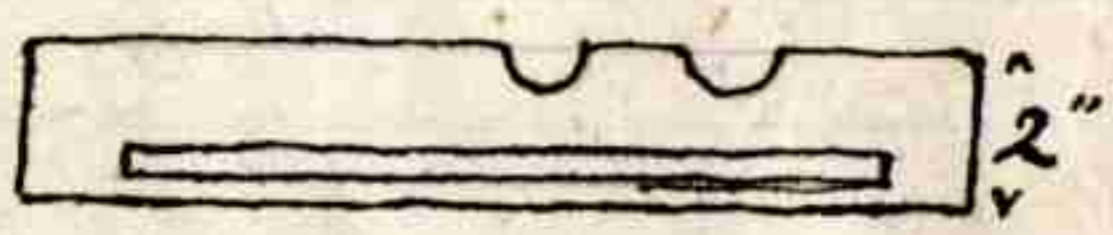
12" A.L.H.

(18 Per Set)

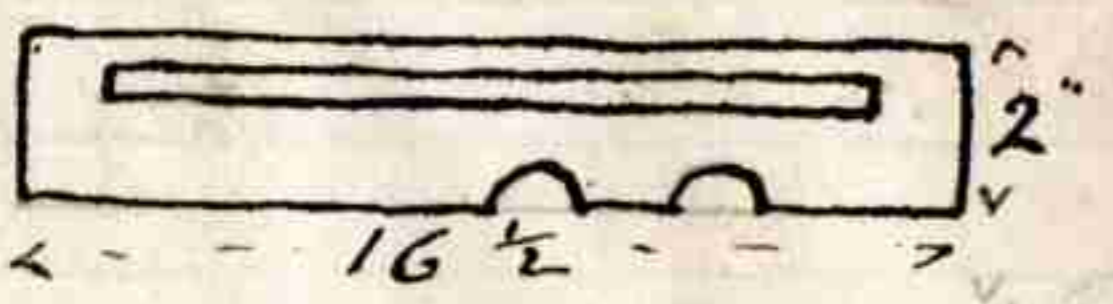


4369

1 each Per Set

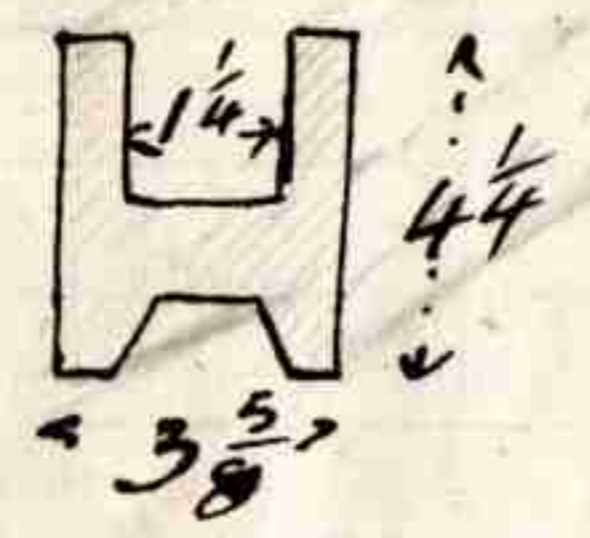
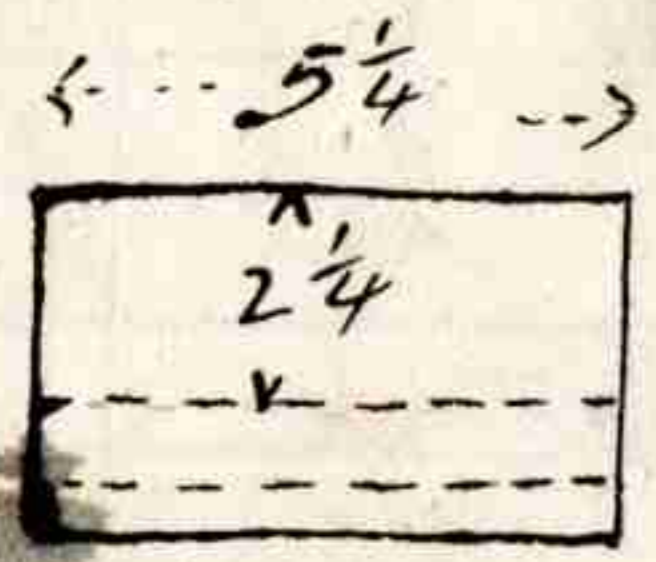


RH 4370

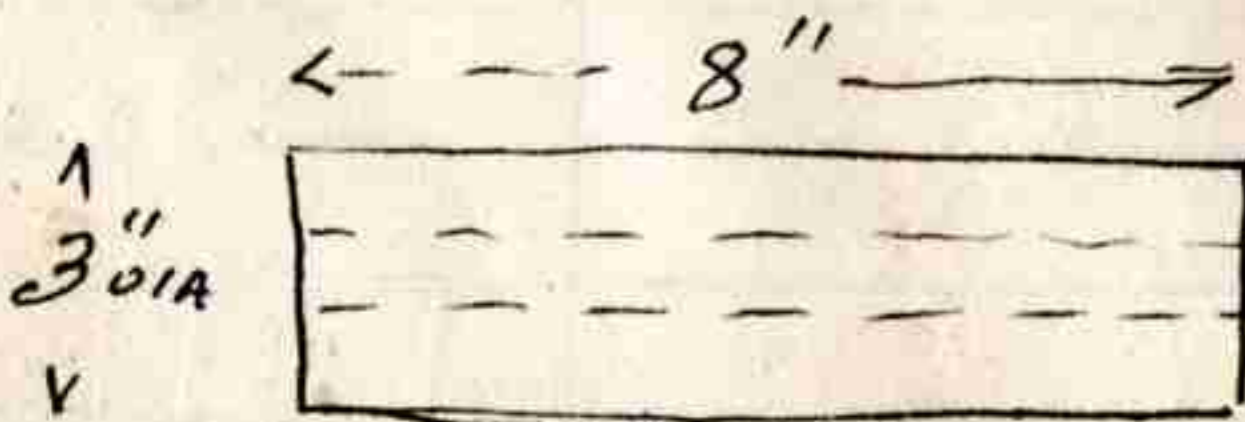


LH 4371

Saddle for
New Boiler Plant



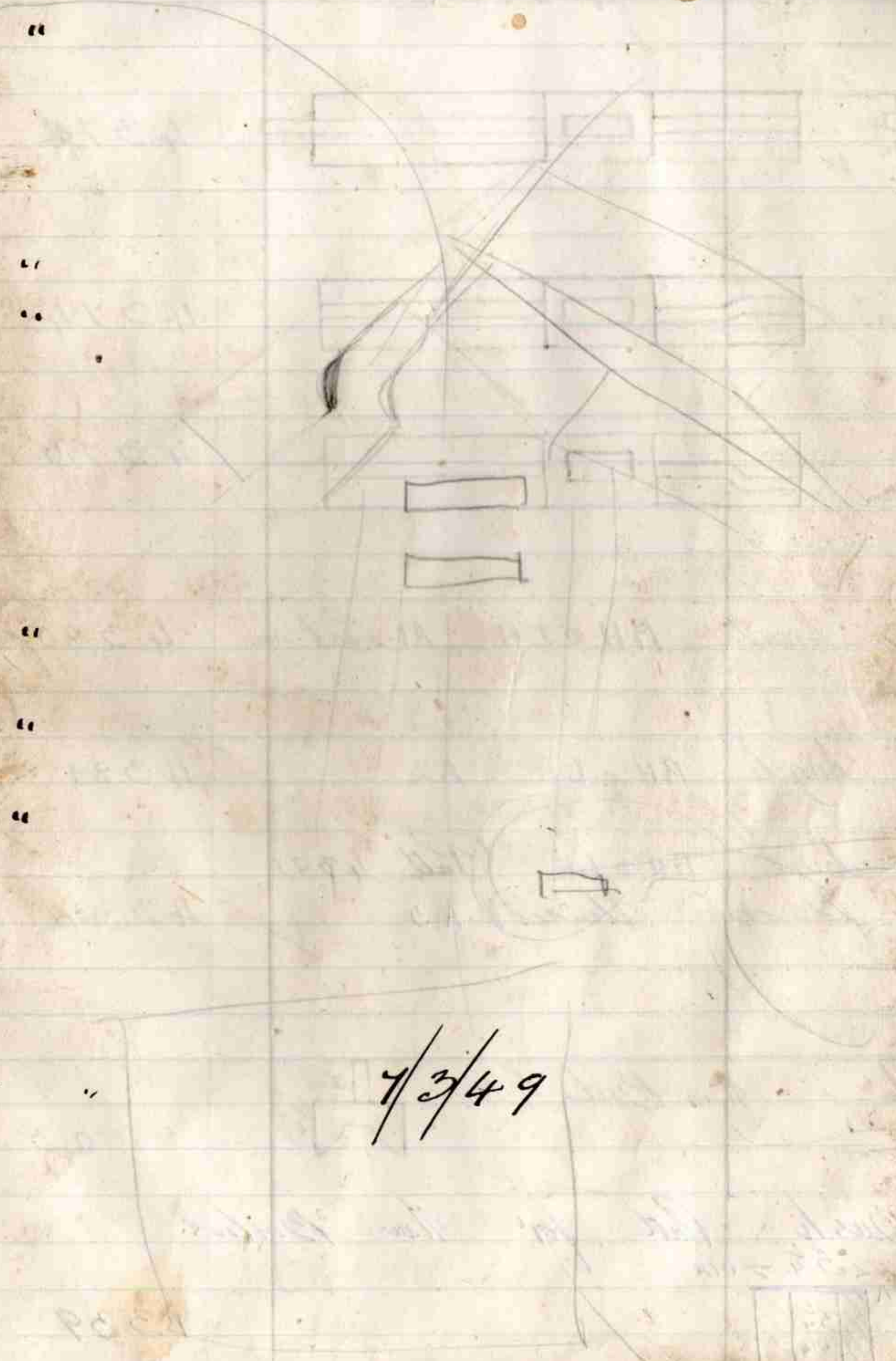
4502



1/4 Core

4586

Cast Iron Bush
for Sealring for Pump

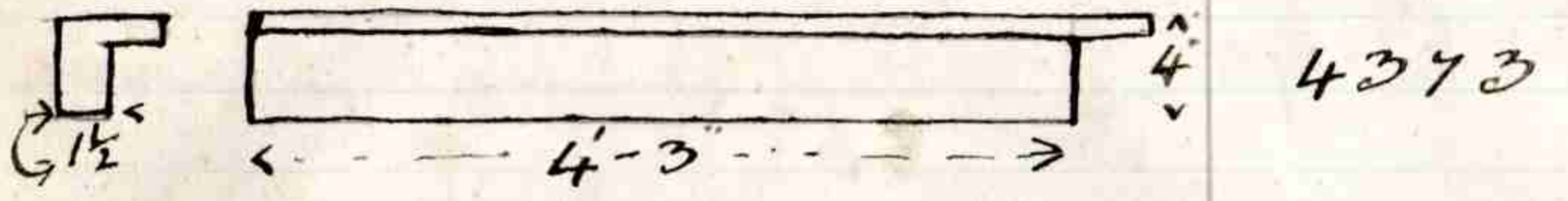


7/3/49

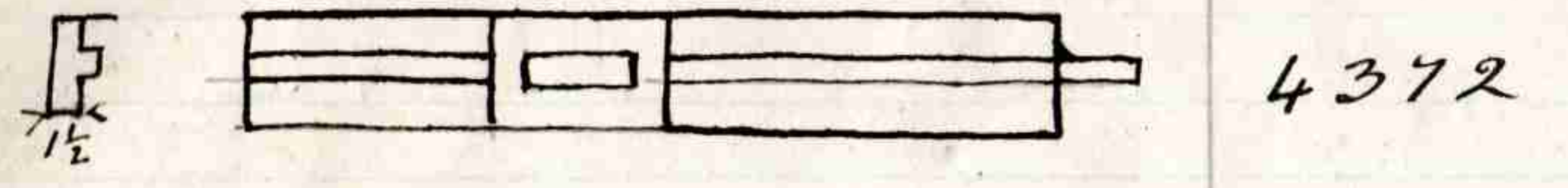
Gyusku

14/3/42

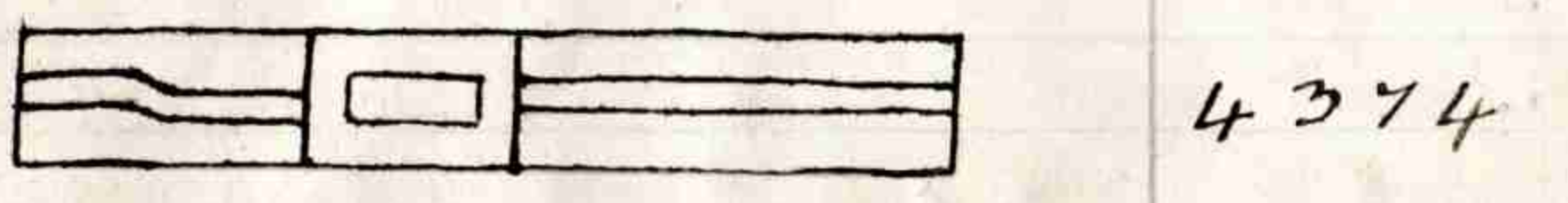
Bars for New Boiler Plant



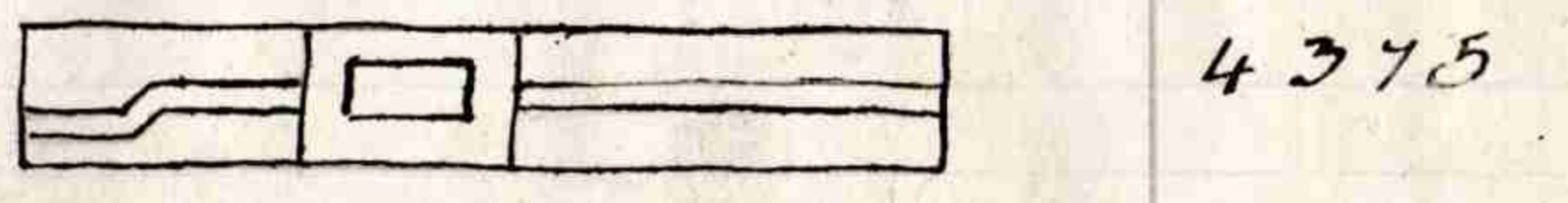
4373



4372



4374

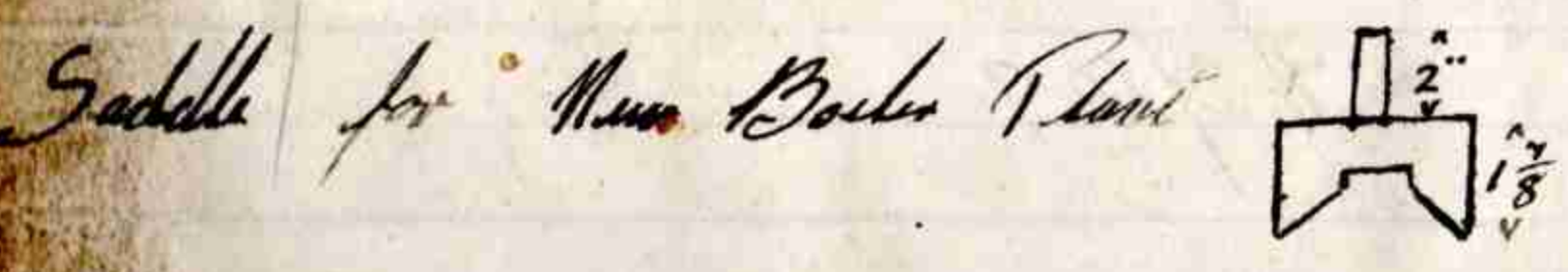


4375

3" x 3" Angle RH & LH A1 Cast on. 4380

3 x 3 Angle RH & LH A2 4381

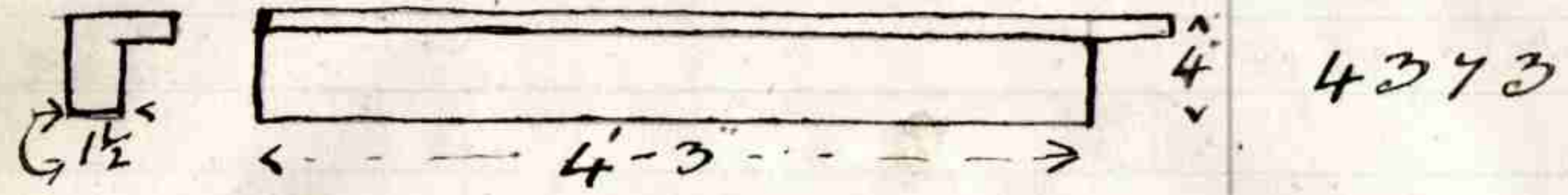
3 x 3 Angle RH & LH (Part 4381 altered to make these.) A3 4384



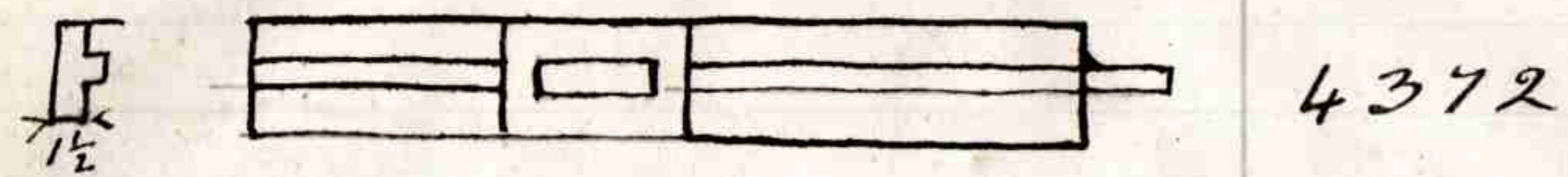
4403

1 Bush Part for New Boilers.

Bars for New Boiler Plant



4373



4372



4374

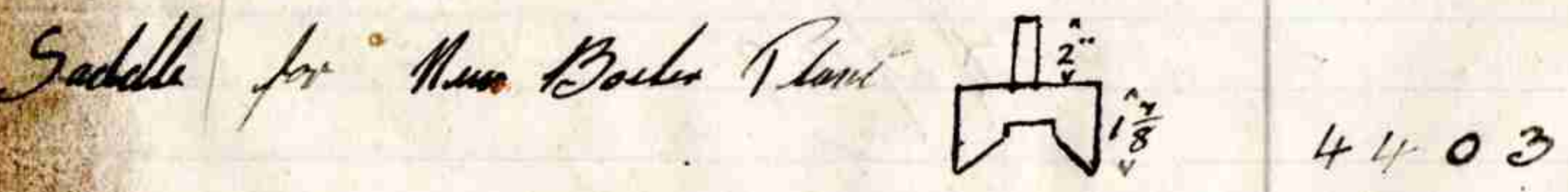


4375

3" x 3" Angle RH & LH A1 Cast on. 4380

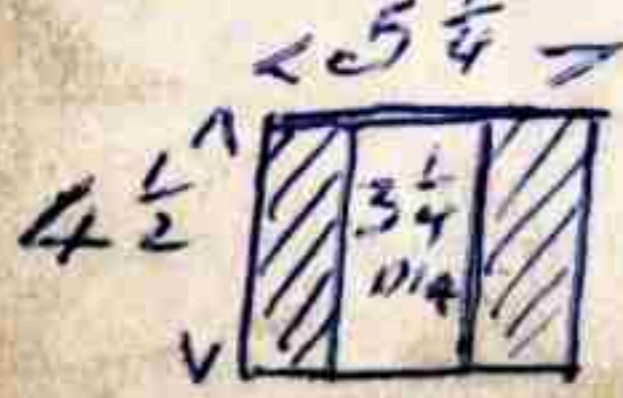
3 x 3 Angle RH & LH A2 4381

3 x 3 Angle RH & LH (Part 4381 altered to make these.) A3 4384

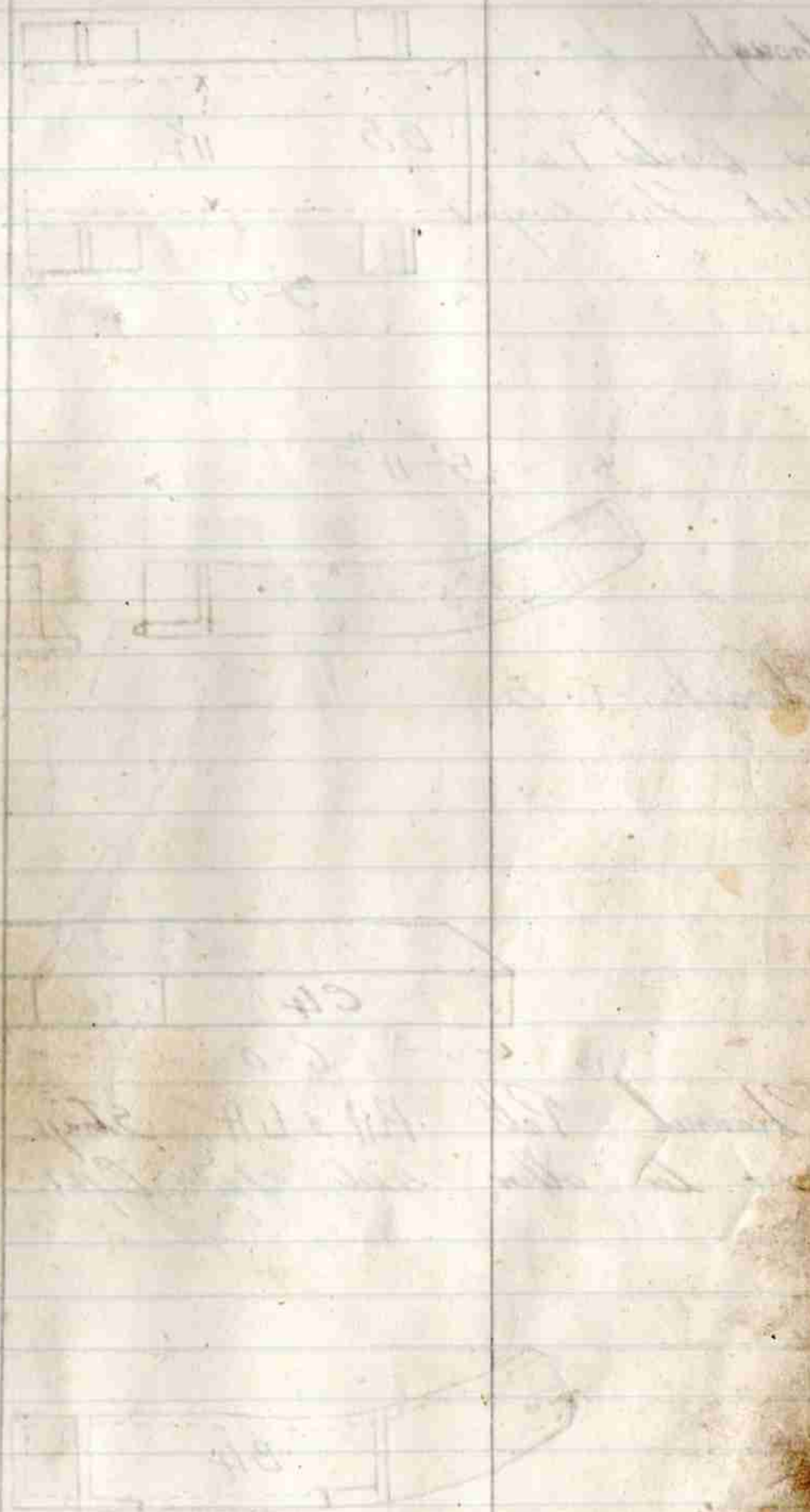


4403

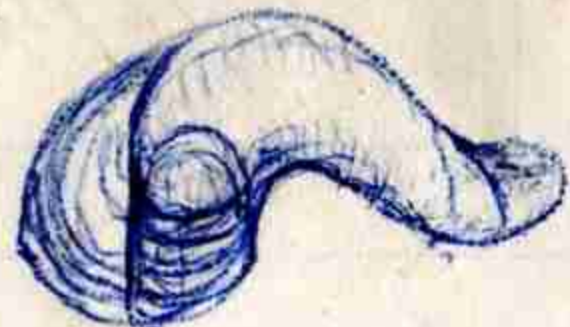
1 Bush Part for New Boilers.



4339



7/9/50



Trough with Slot in T2



T3 No Slot Cond in

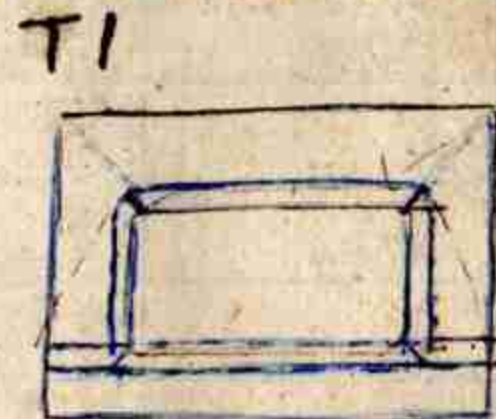
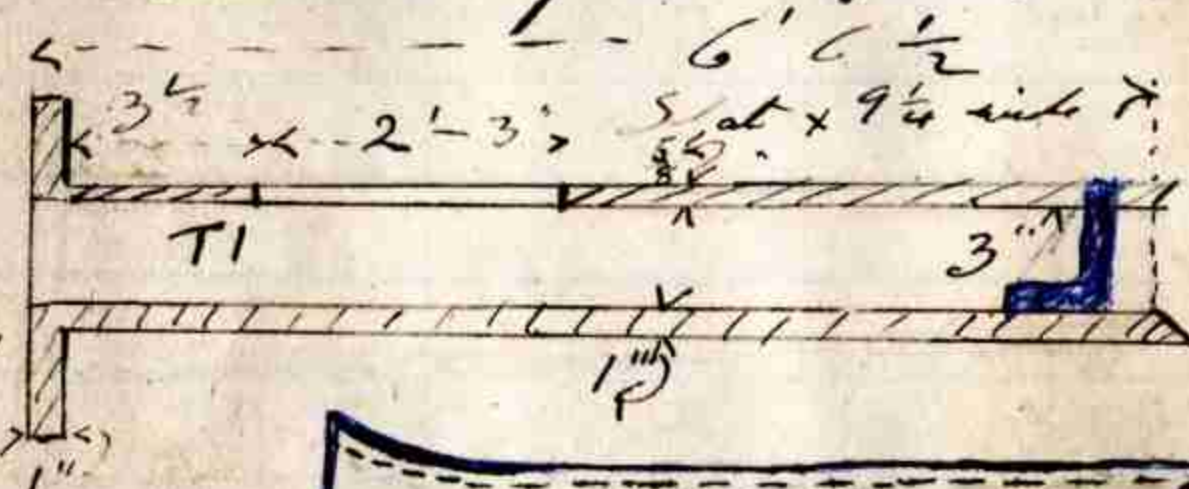
T4

3944

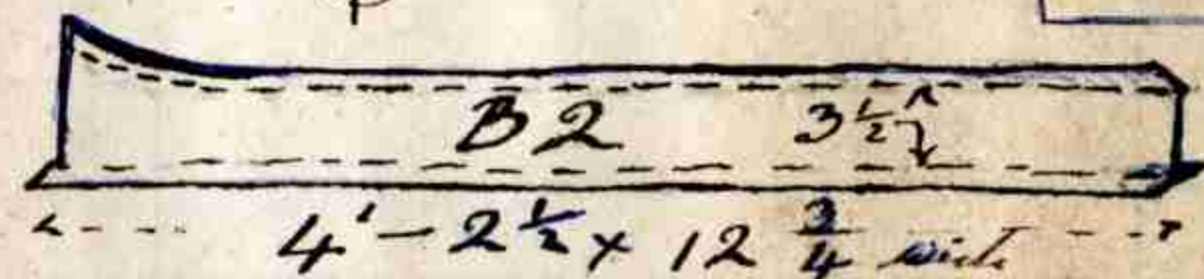
This Patt Makes T2.T3.T4
When Core is Altered



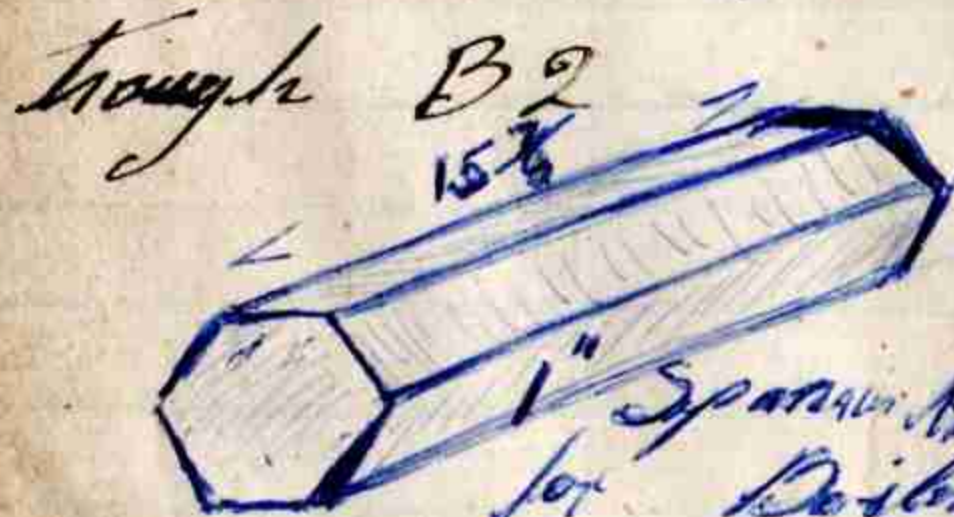
~~with Slot in T3~~
~~Patt taken from T1~~ T1 New Pattern



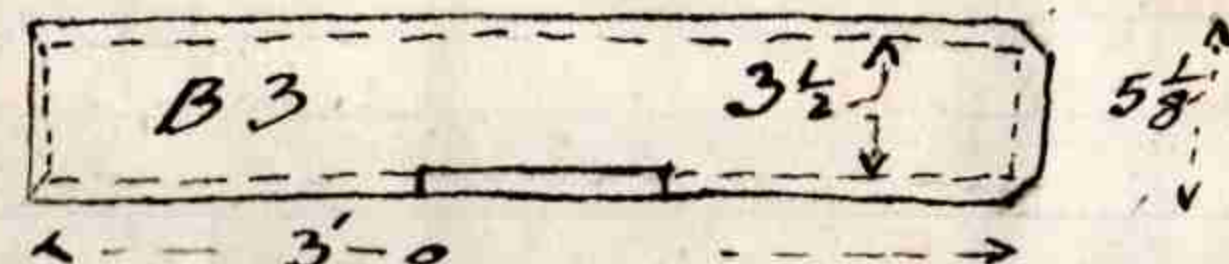
4394



4395



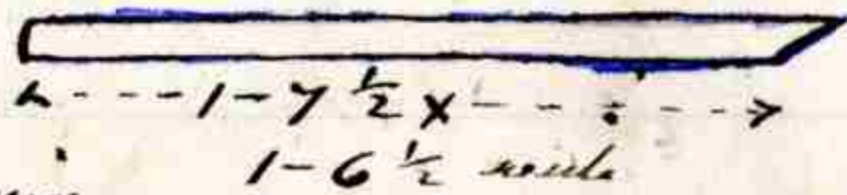
1" Spanner Hex Stick 15 7/8 long 4375
for Diesel Plant in Brass



4396

Trough B3

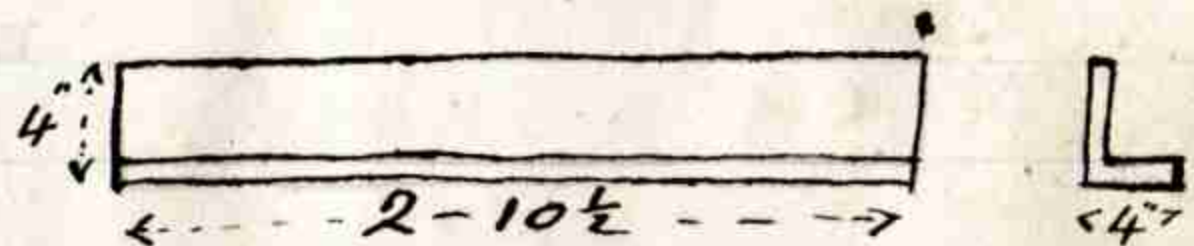
Plate Patt
(B1 Cast on)
Under Mt. Swayin
Trailer



4108

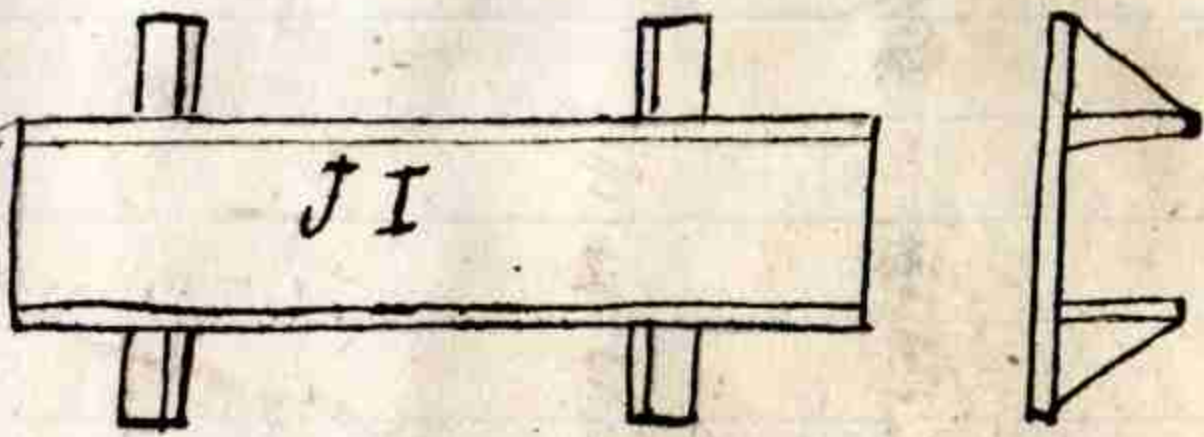
Dam & Lanes

4" x 4" x 5/8
Angle



4397

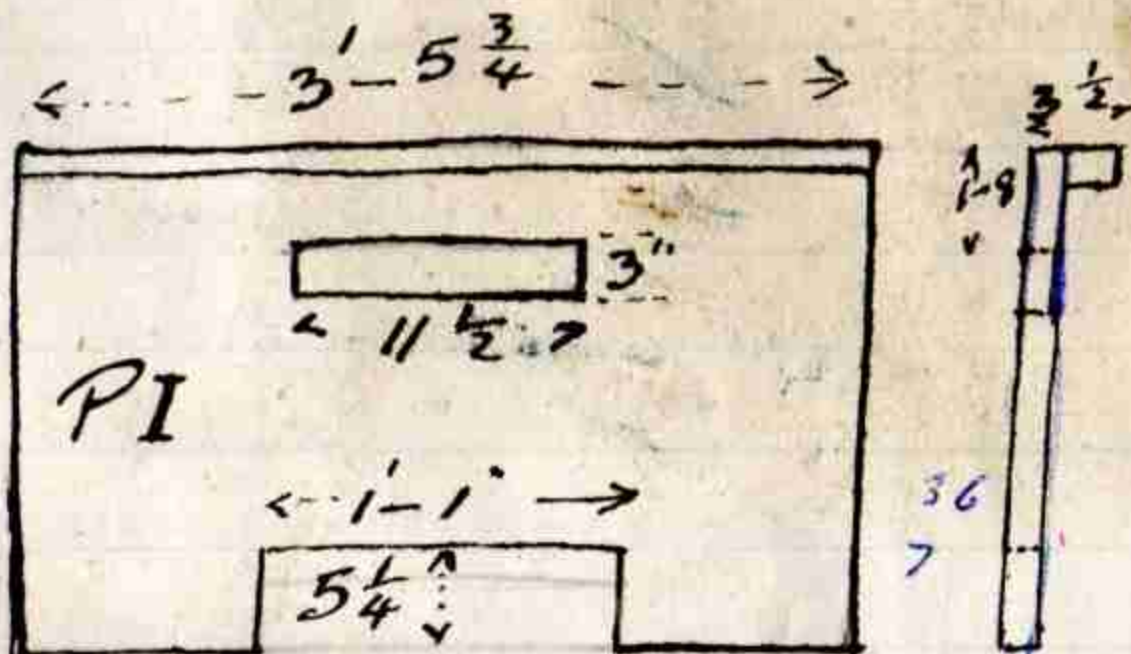
1 Order with
legs (No J1
Cast on)



4398

1 Without legs. (J2 Cast on)

Plate Patt
P1 Cast on 3'-0"



4399

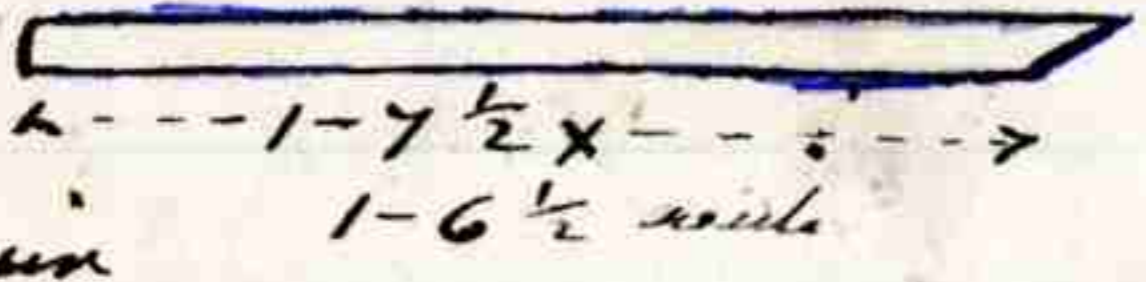
X Pipe for Primary air Pipe
Doubt Plant



899X

Plate Patt
(B1 Cast on)

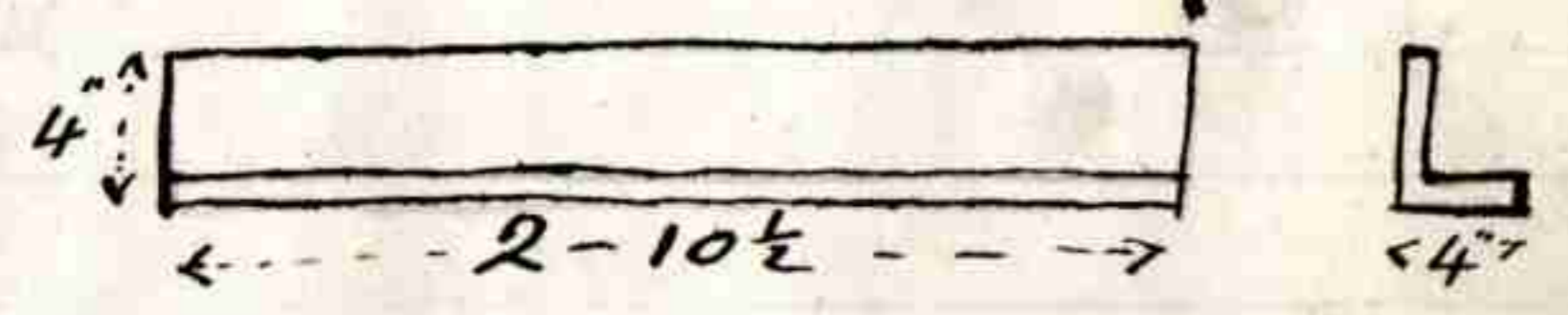
Under Wet Sump
Trailer



4108

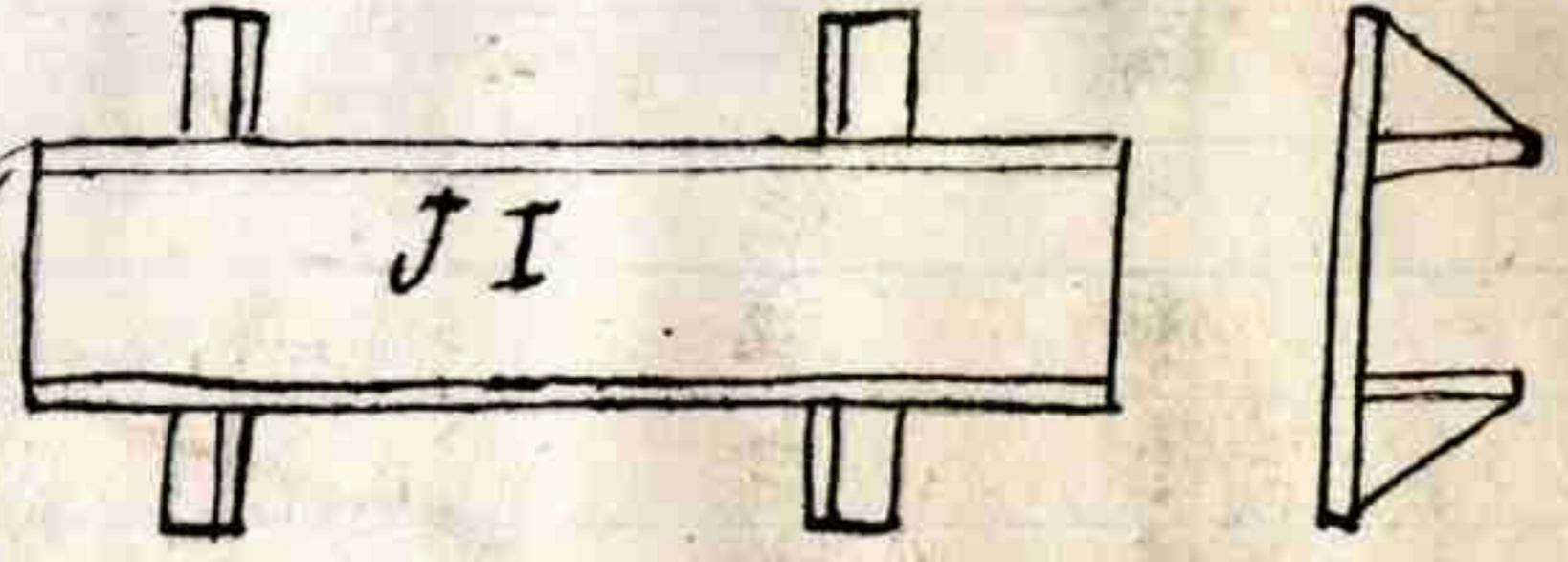
Dam & Lanes

4 x 4 x 5/8
Angle



4397

1 Order with
legs (J1
Cast on)

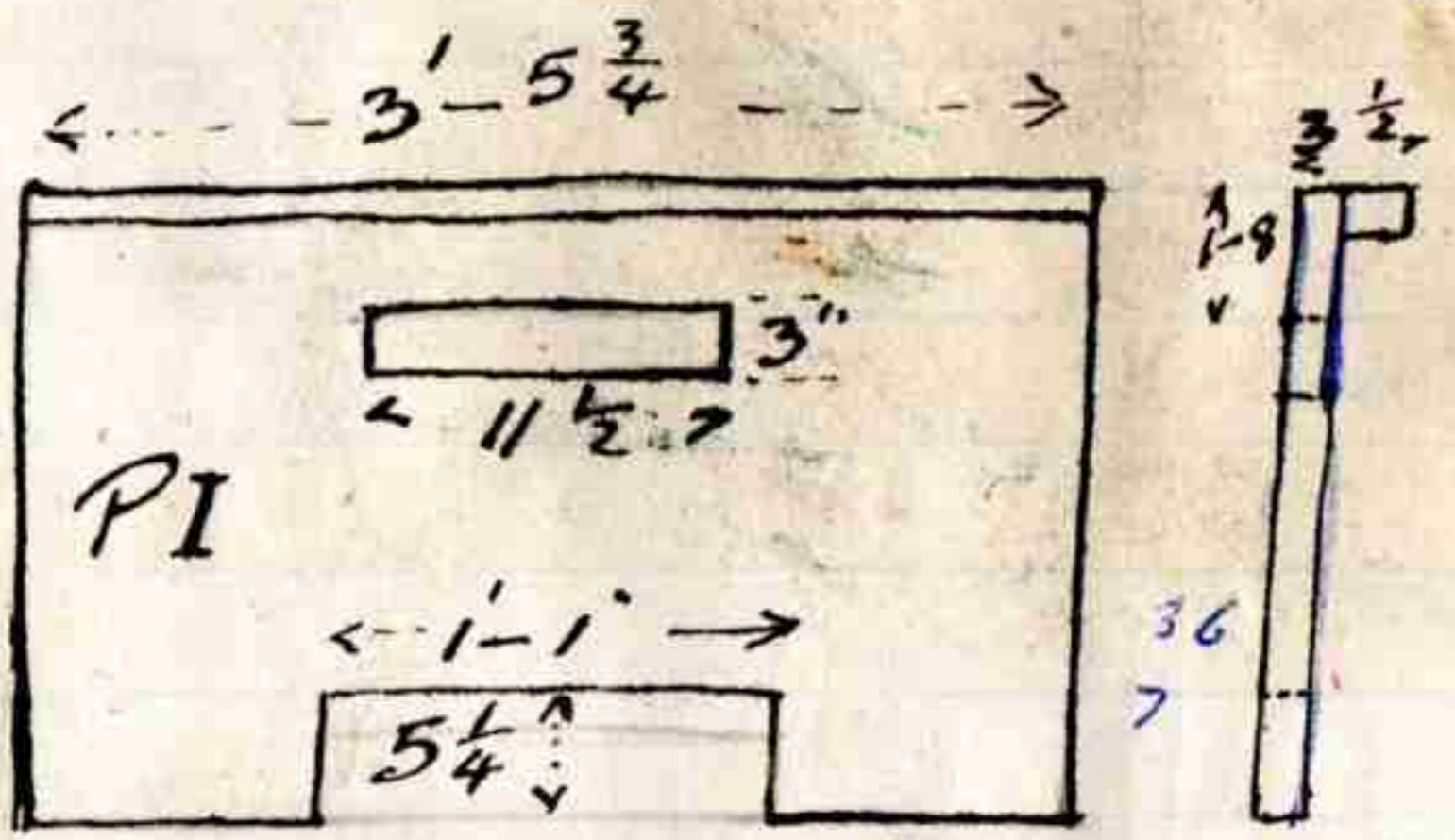


4398

1 Without legs. (J2 Cast on)

Plate Patt

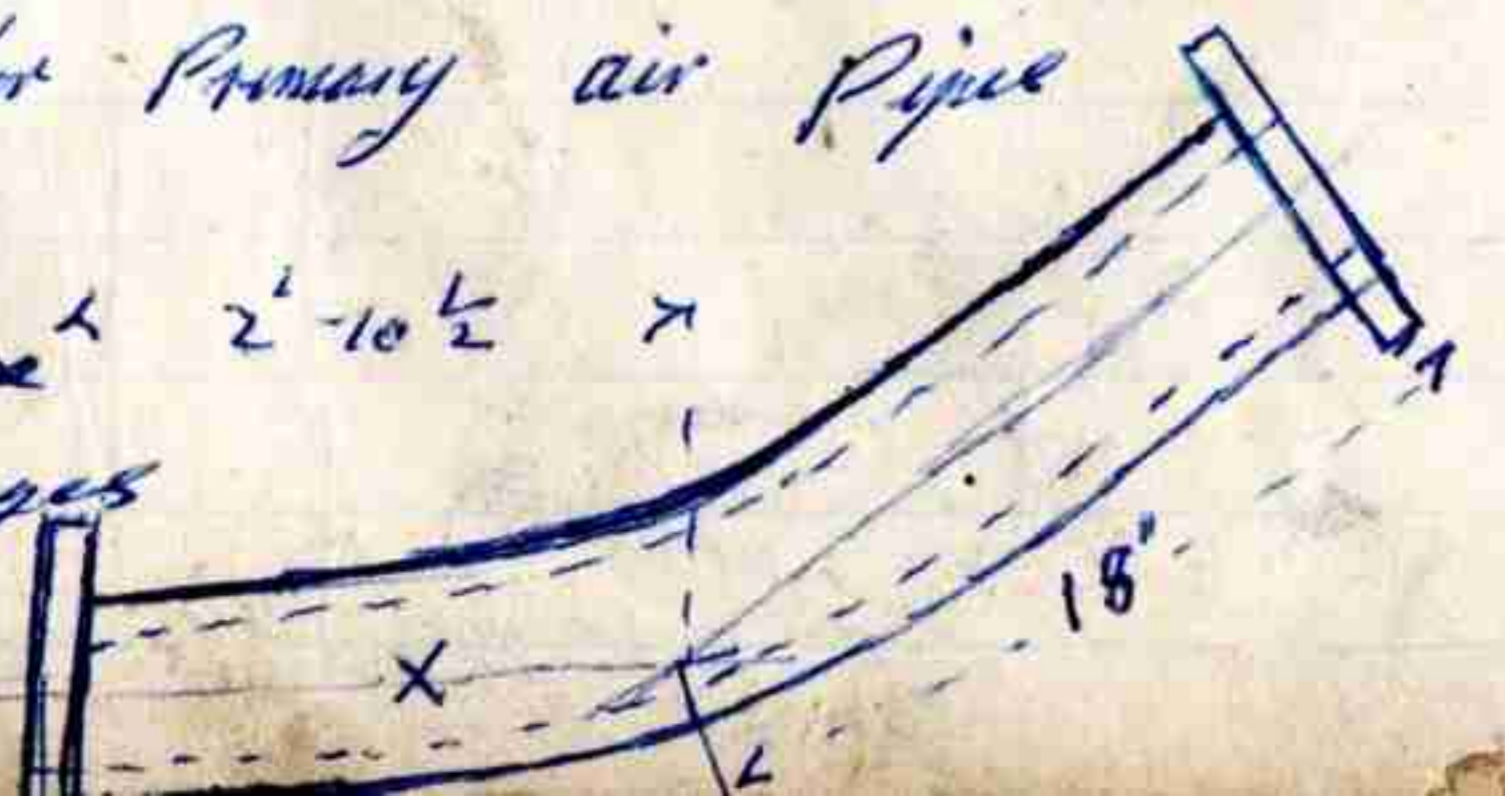
P1 Cast on 3/8"



4399

X Pipe for Primary air Pipe
Bunker Plant

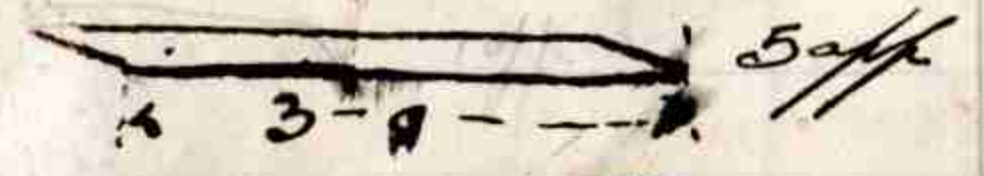
3/4 O.D. of Pipe 2-10 1/2
9 1/2 DIA. Flanges
6" DIA. I.S.D. of
Pipe



899X

HA

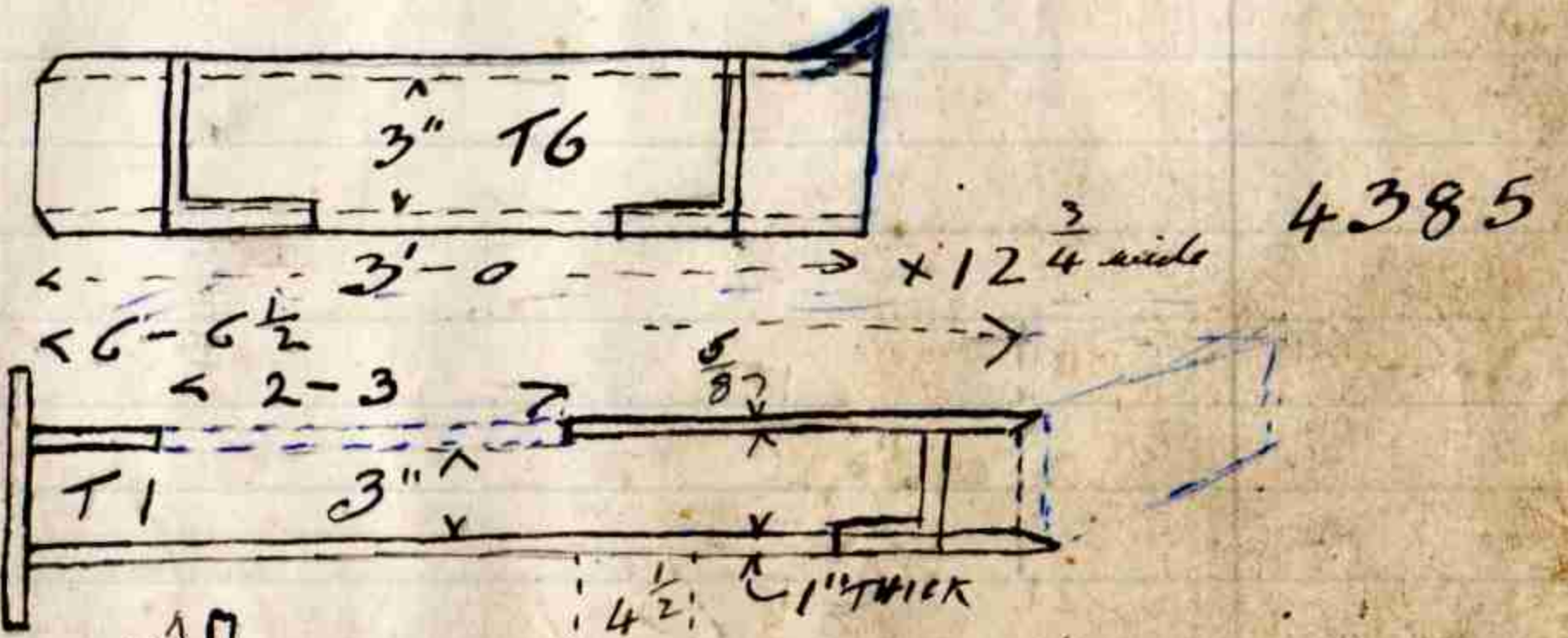
Plate Part 3-0 x 1-6 1/2 x 7/8 B6 Cast on 4382
 5 off Per set 4382



" " 3-6 x 1-6 1/2 x 7/8 B6 Cast on
 West Blue 1 off Per set
 Scrap 4383

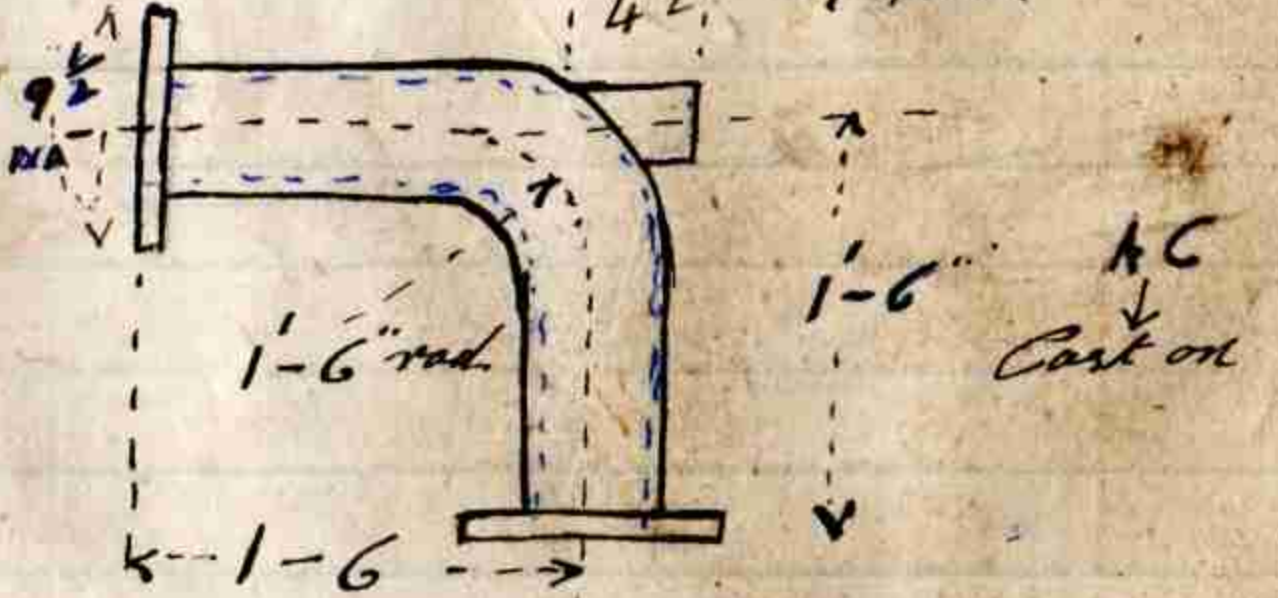


Trough T6 Cast on

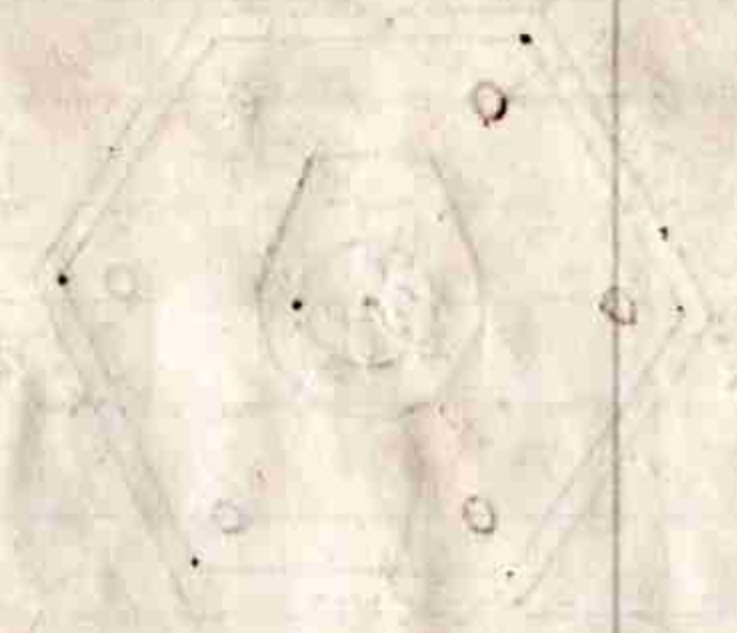
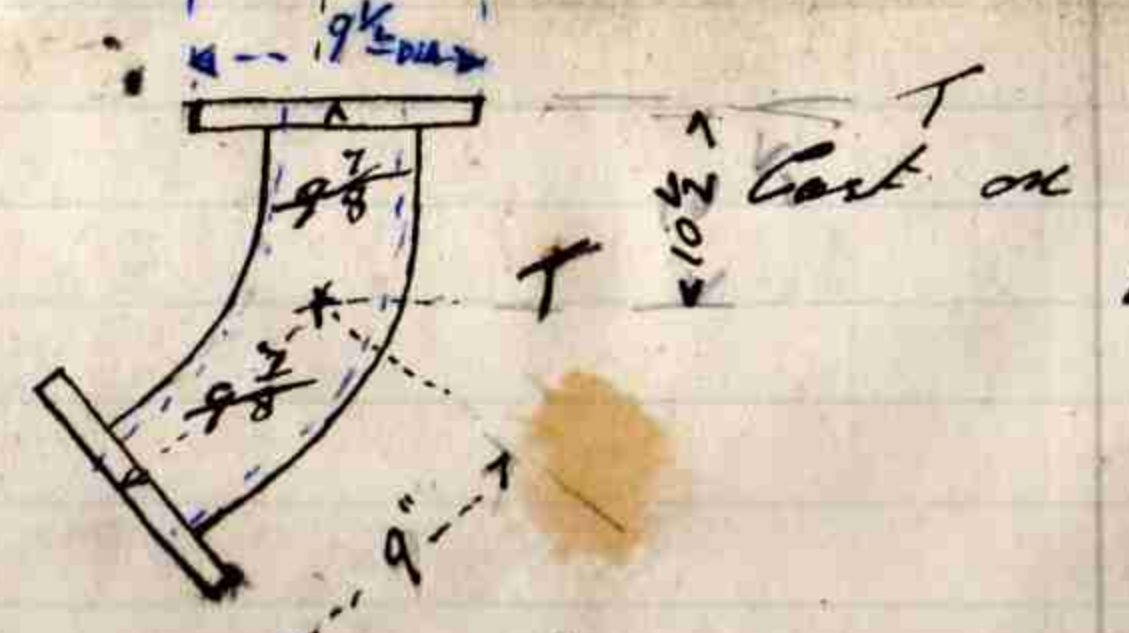


Sydneywell

1 6" Bend New Boiler Plant Cast on 4262



Bend for Primary Air Range Cast on 4510



B6

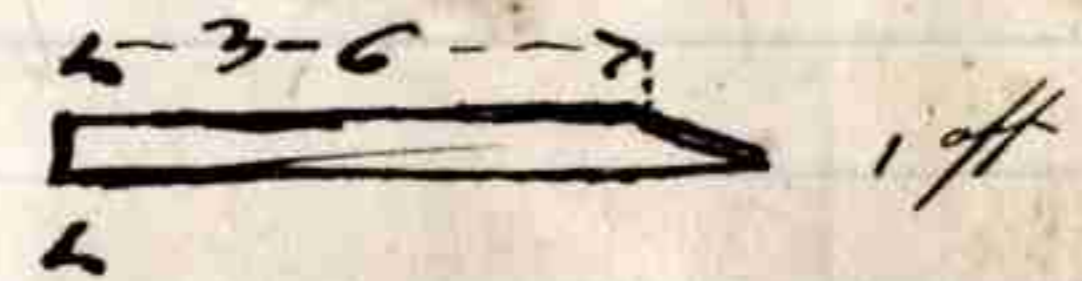
Plate Patt 3-0 x 1-6 1/2 x 7/8 B6 Cast on
5 off Per Set

4381
4382

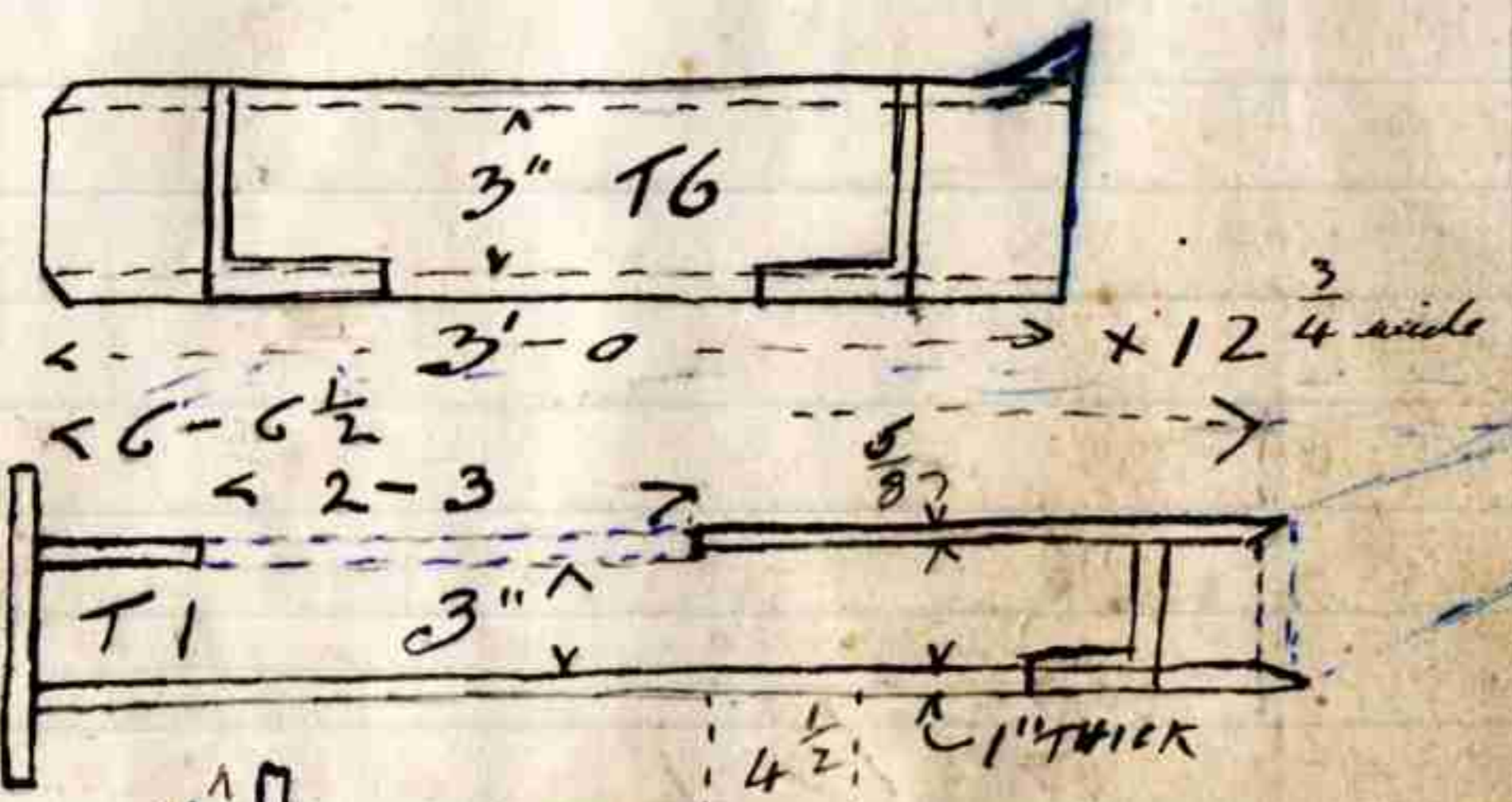


3-6 x 1-6 1/2 x 7/8 B6 Cast on
Wet Blue Scrap 1 off Per Set

~~4382~~
4383

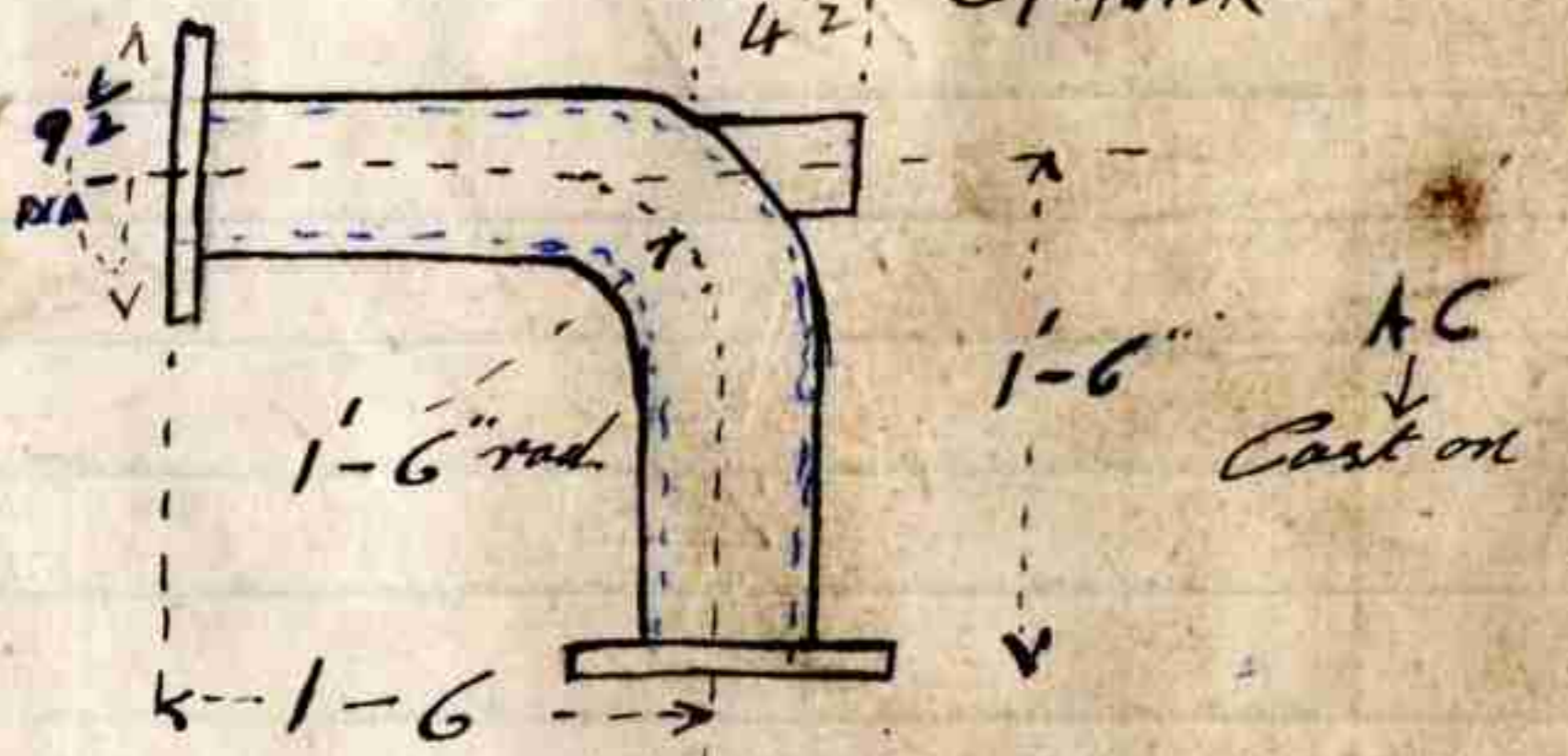


Trough 16 Cast on



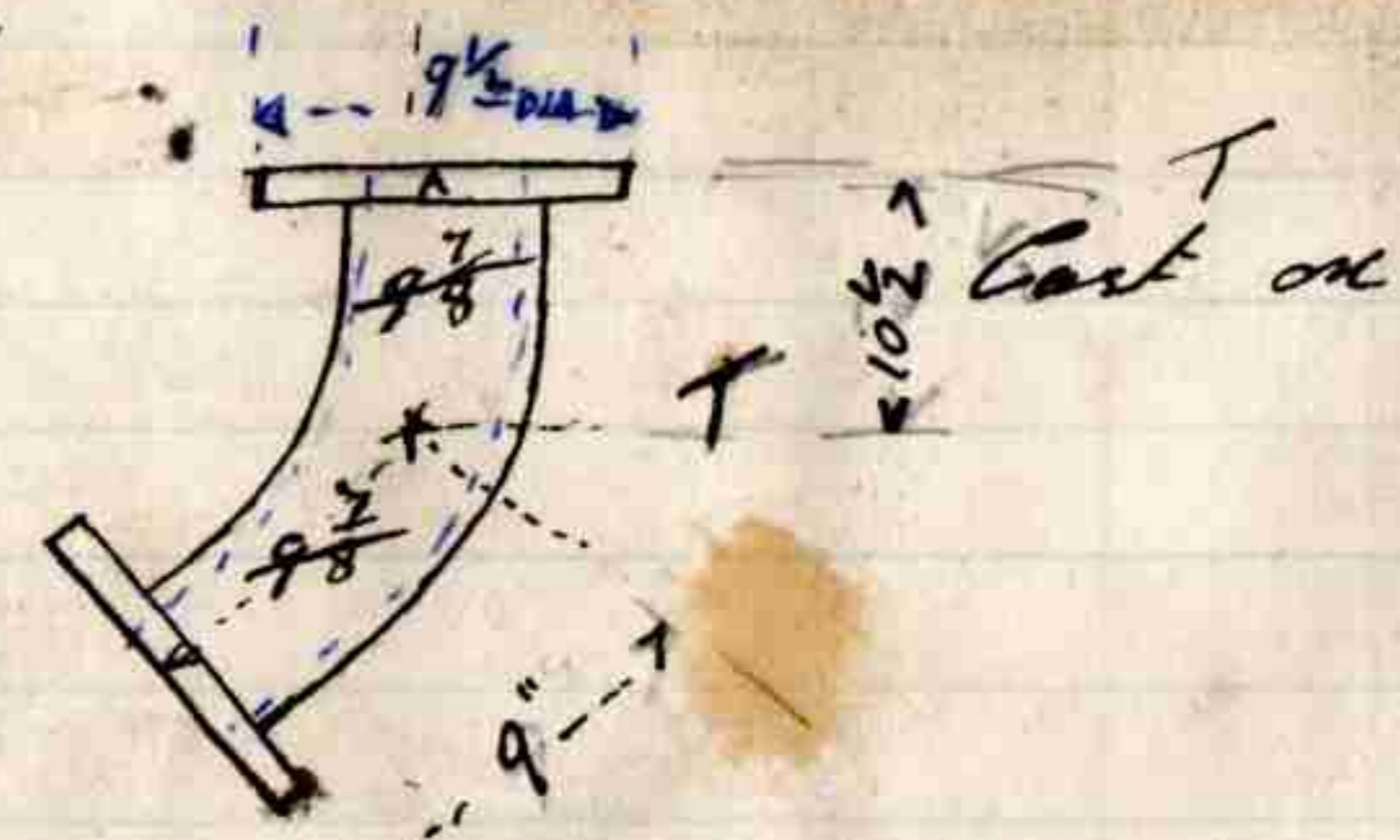
4385

1 6" Bend
New Boiler
Plant



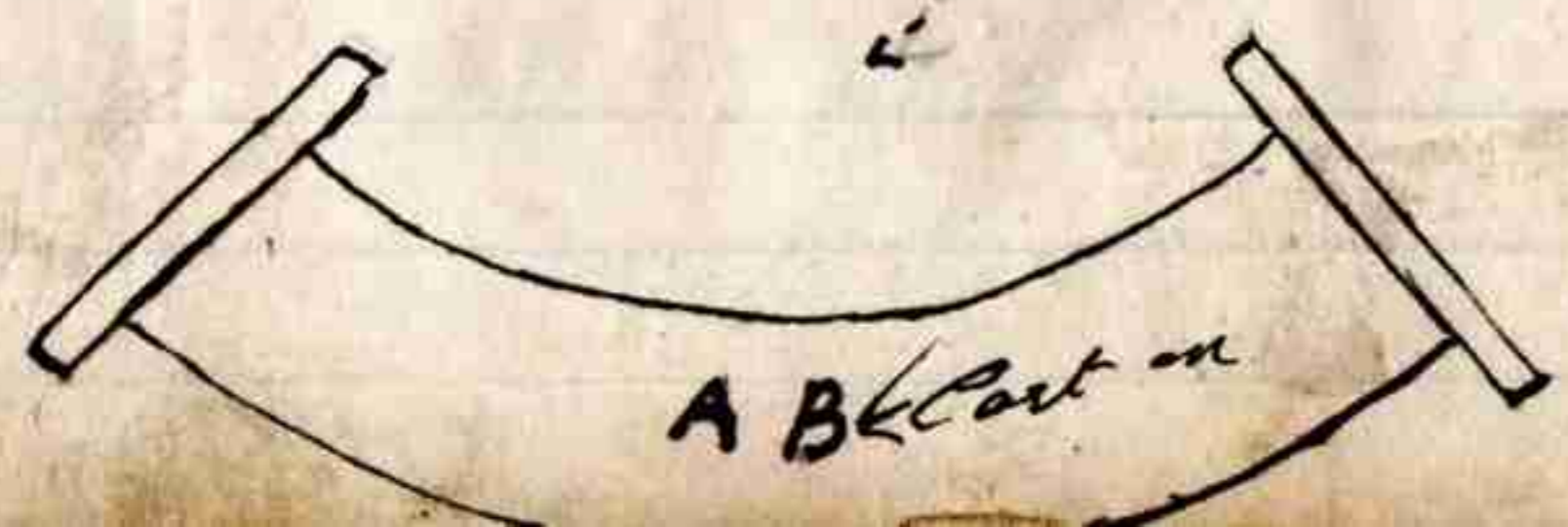
AC
Cast on
4262

Bend for
Primary Air Range



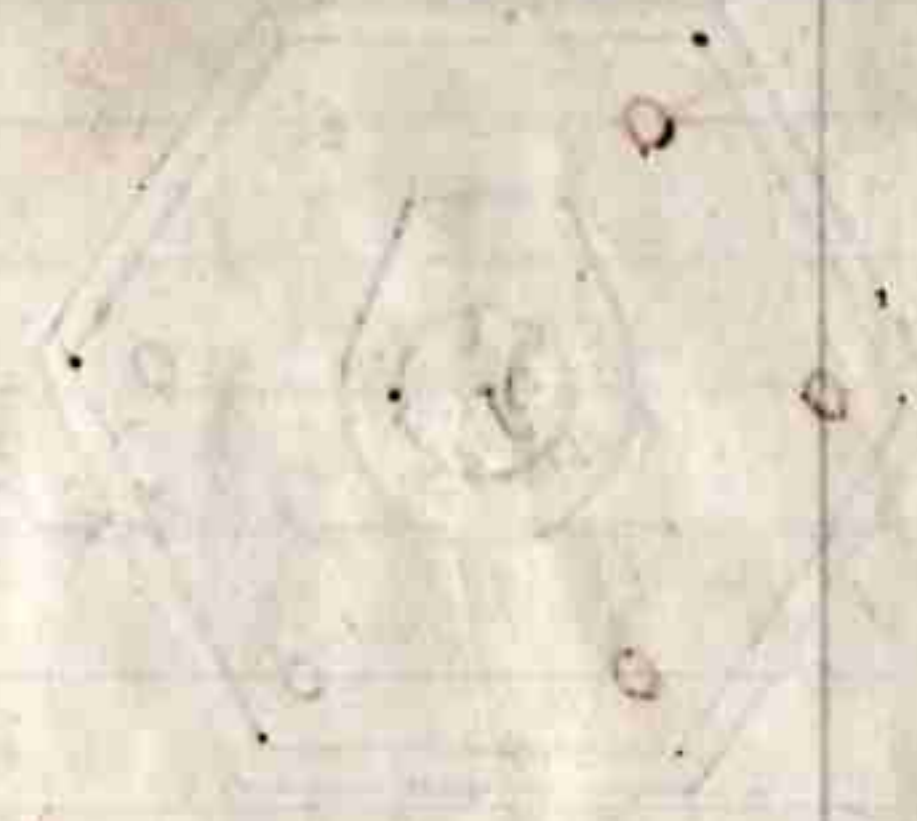
Cast on
4510

Bend for Primary
Air Range



3114

Dum & Limes



" "

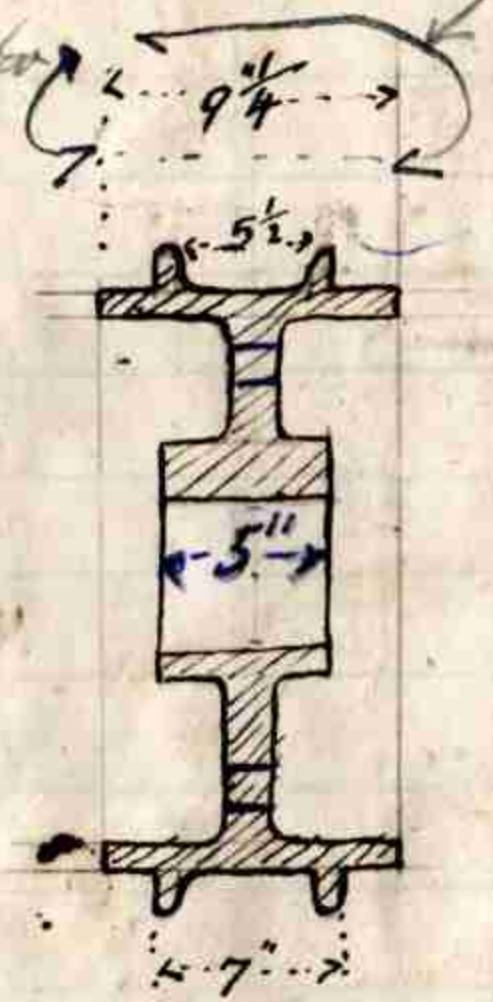
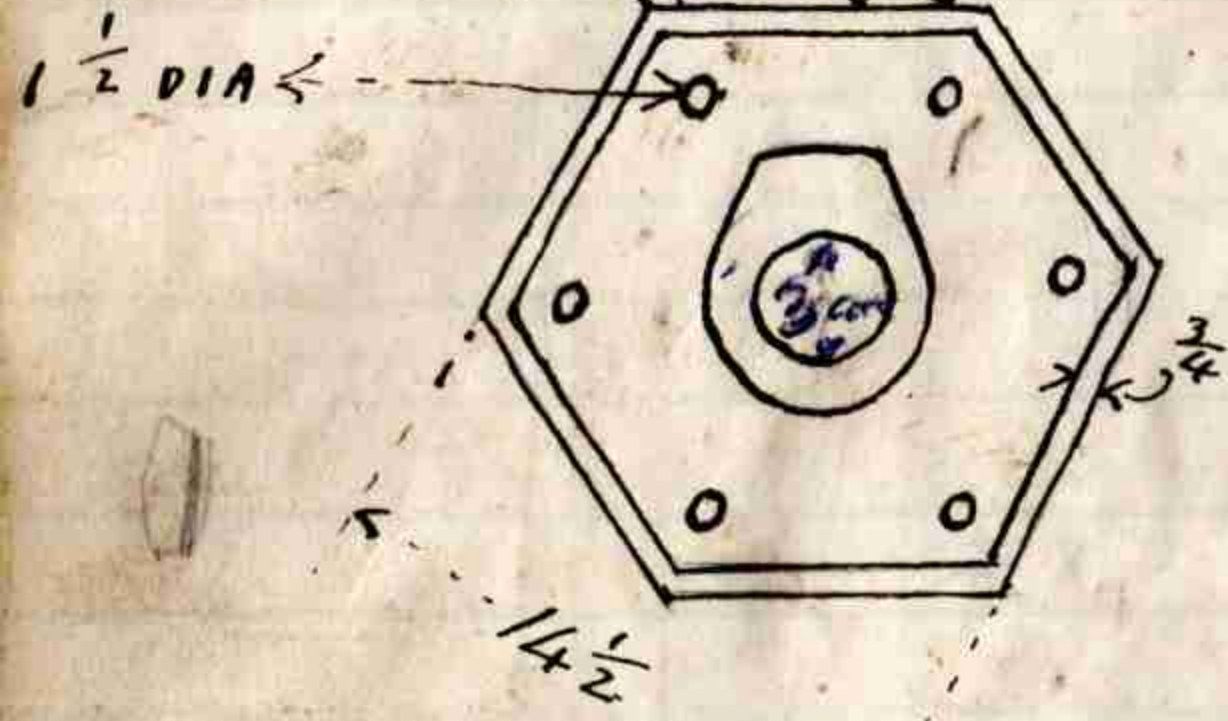
Sprindell

"

4 Red ... 4149

11" wide for 4074 D Driver
for wet scraper 3" core

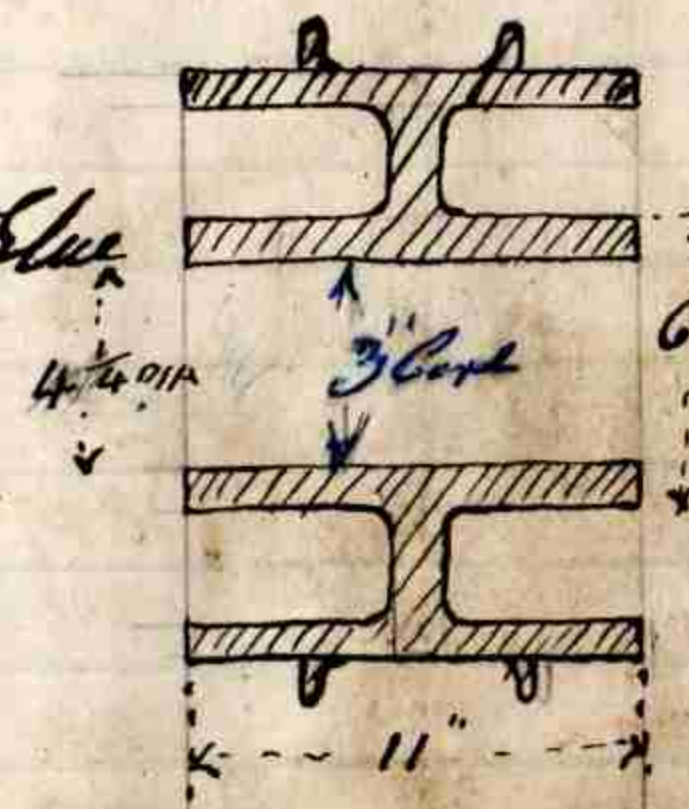
9 1/4" wide for
Green's



4074 A

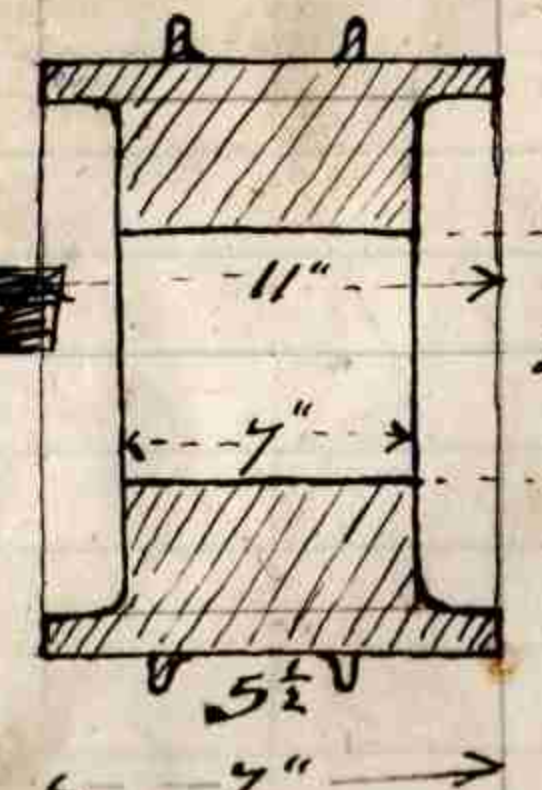
Wet Scraper Driver for Boiler Plant
11" wide

Boiler Plant Wet Scraper
Dust Scraper Trailer



4074 C

Boiler Plant Dry Scraper
Driver & Trailer
Driver 5" in the bore
Trailer 4" in the bore.
3 1/2" core cast in

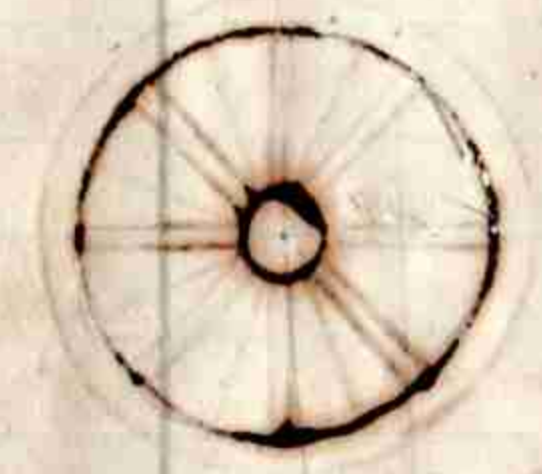


4074 B

Greenwell

Date Sent

Returned



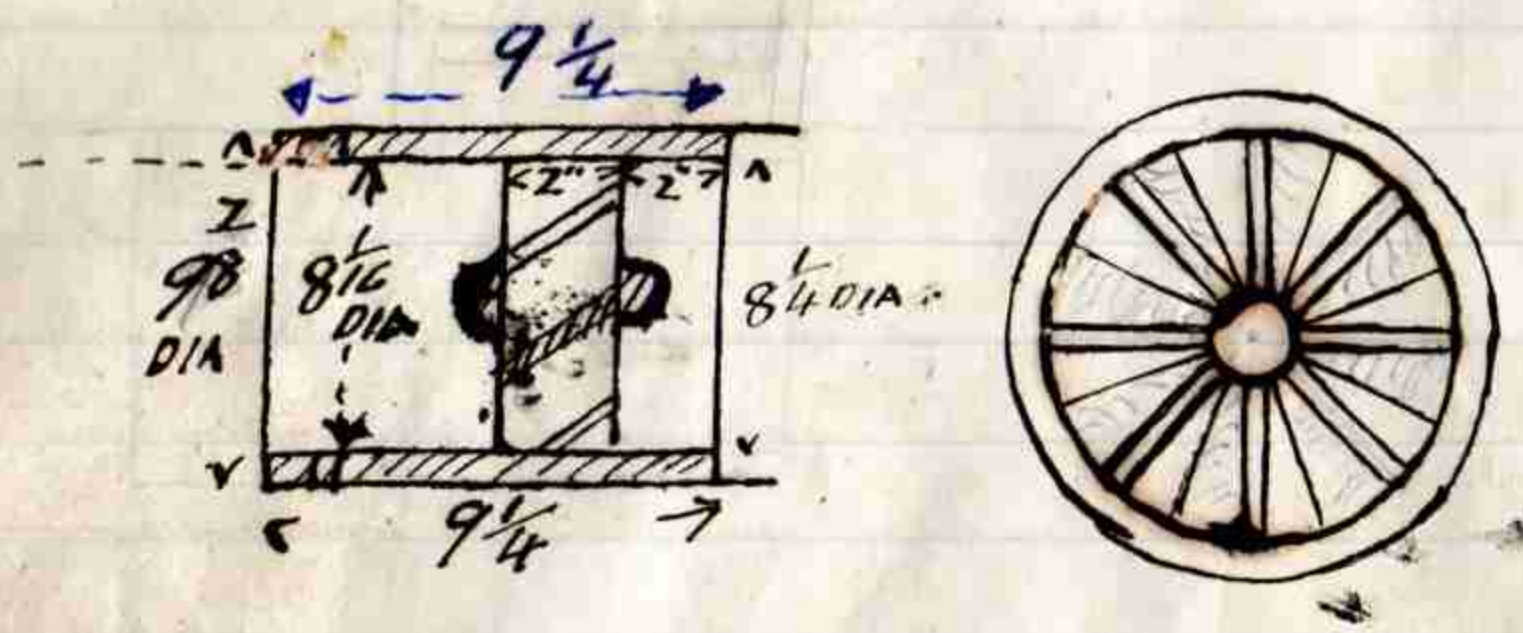
APRIL 4

Sydneywell

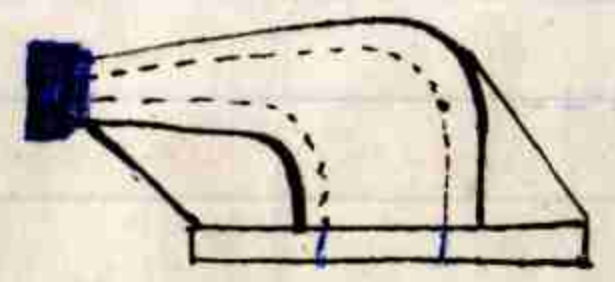
19/9/45

Runner for New Boiler Plant
(# 3 Core Boxes.)

4512



Nozzle & Core Box
for New
Boiler Plant.



3/8 4516

Valve for No 1 & 3
Boiler Pump

4389

Sealring No 1 & 3
Boiler Pump

4389

Valve ^{sealing} for No 1 Boiler Pump

1 Damper Plate
7-7 x 14 3/4 x 1/2 THICK



3809

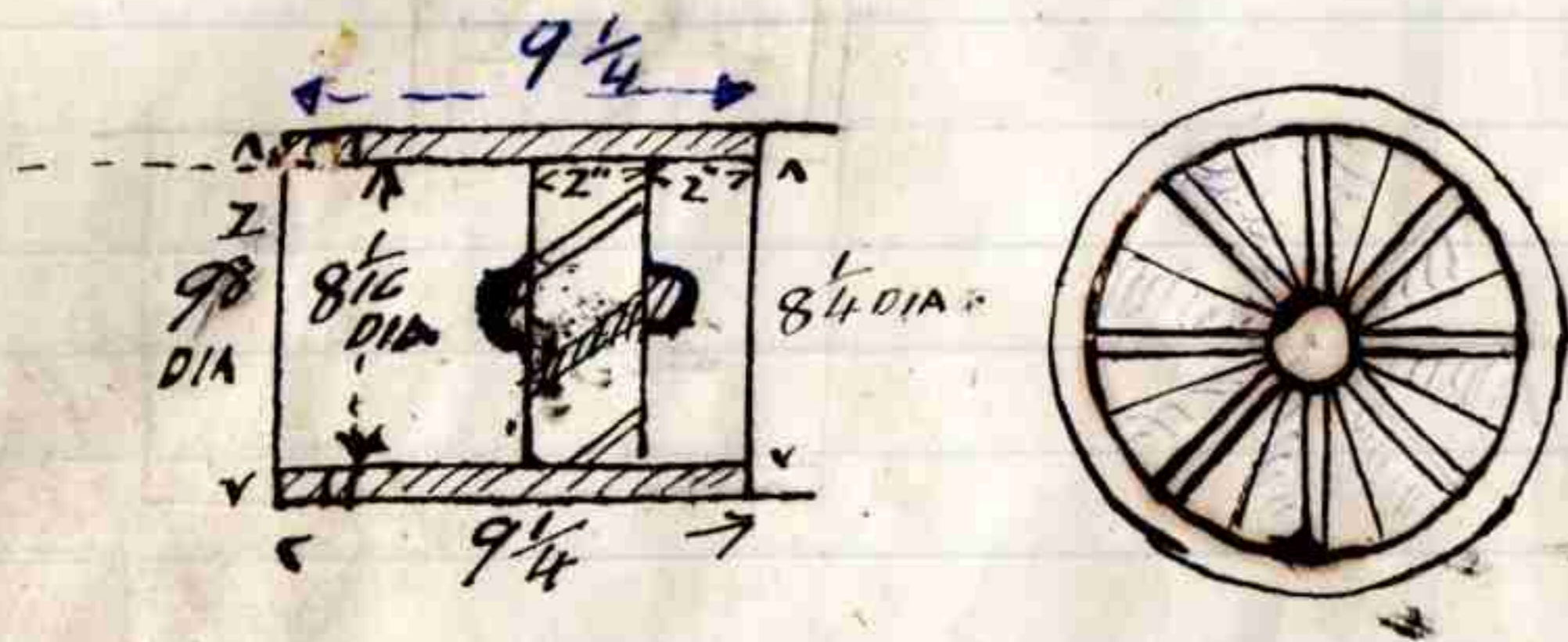
1/12/49

~~Drawn & Sealed~~
Kerrington Eng Co

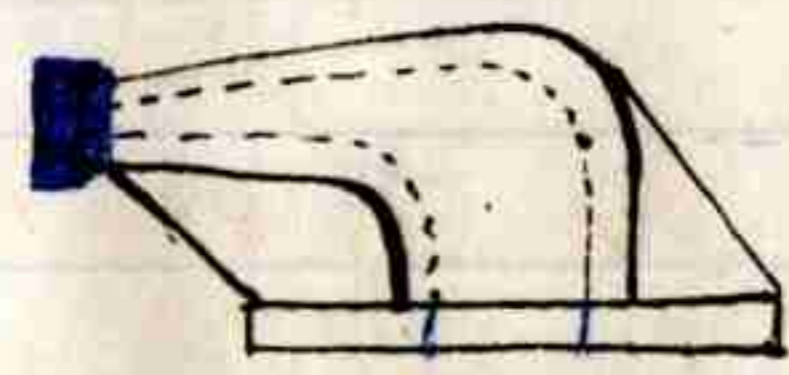
27/4/50

Draw for New Boiler Plant
(3 Core Boxes.)

4512



Nozzle & Core Box
for New
Boiler Plant.



3/8 4516

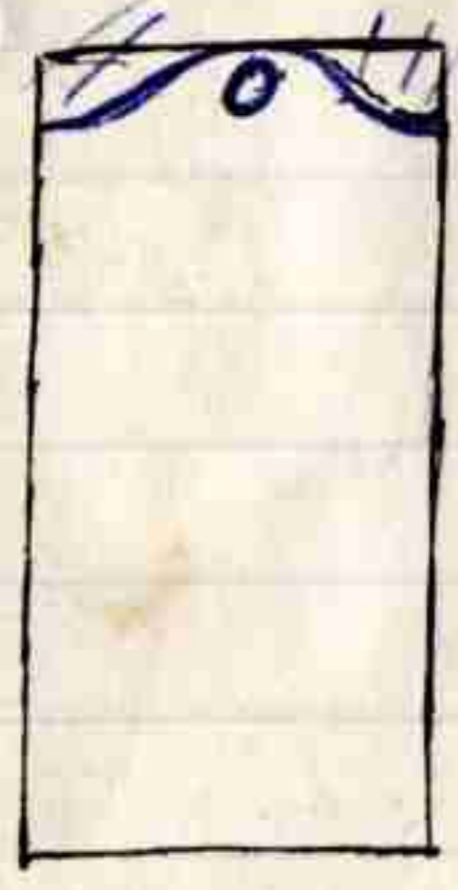
Valve for No 1 & 3
Boiler Pump

4389

Sealring No 1 & 3
Boiler Pump

4389

Valve ^{sealing} for No 1 Boiler Pump
1 Dampier Plate
7-7 x 14 1/4 x 1/2 THICK



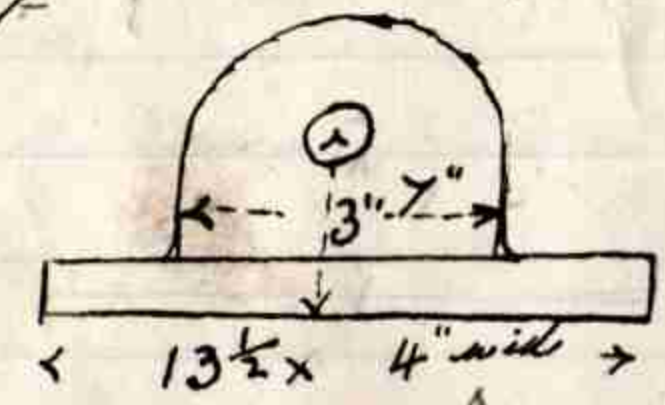
3809

~~Draw~~ ~~frames~~
Kensington Eng Co

27/4/50

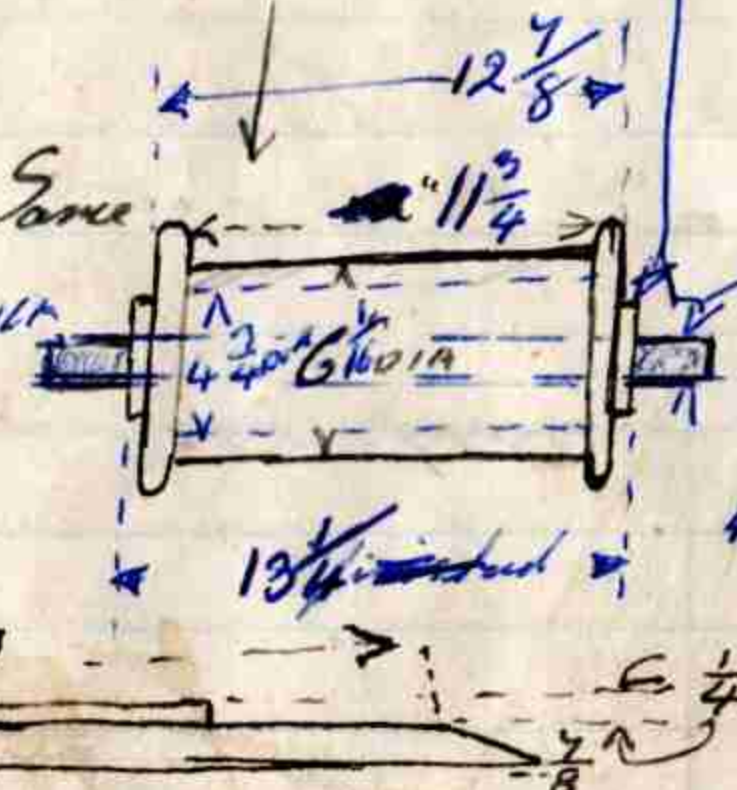
1/12/49

Pat for wet Flue Scraper
New Boston Plant



4149

1 6" DIA Roller for same
with 9" DIA flanges 9/16 THICK



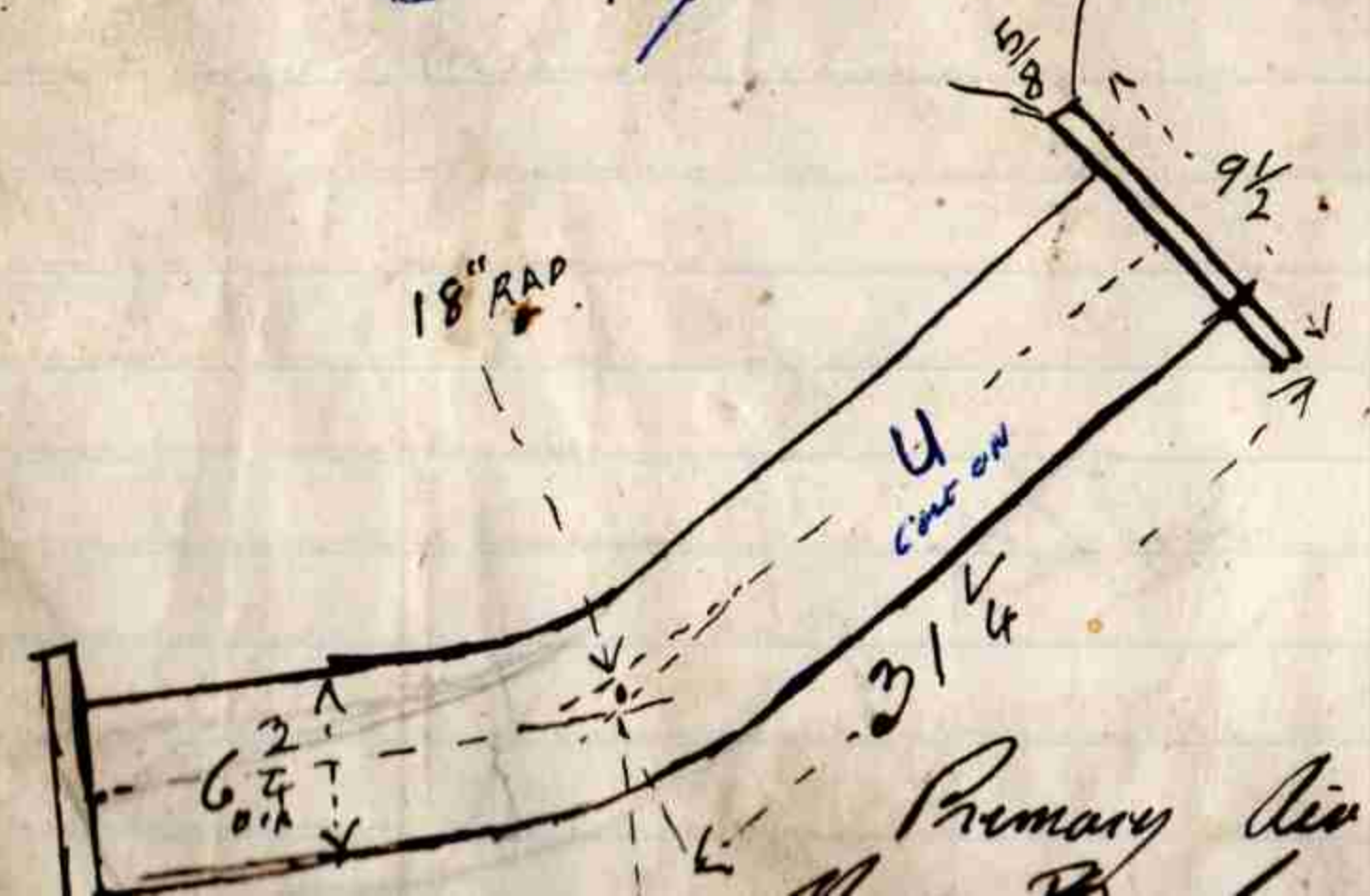
2 1/4 DIA X
spindle 2 1/4 DIA X
2 1/2 long
Main flue
spindle cut in.

4104



4106

Crosshead Bush for Boiler Plant Pump 2833

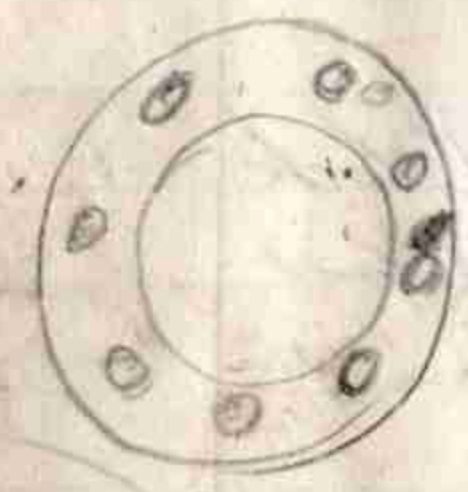


4590

Primary Air Range

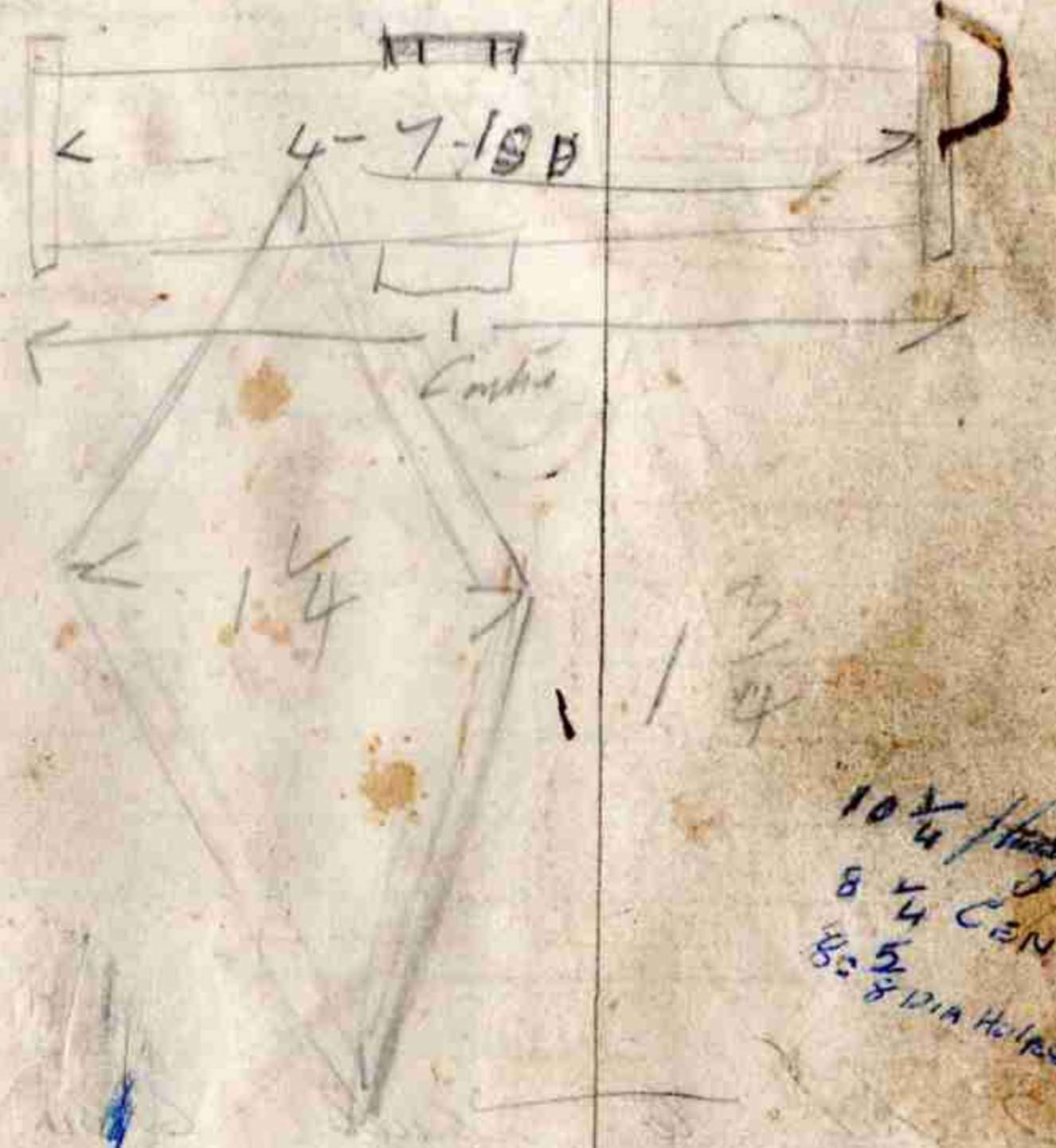
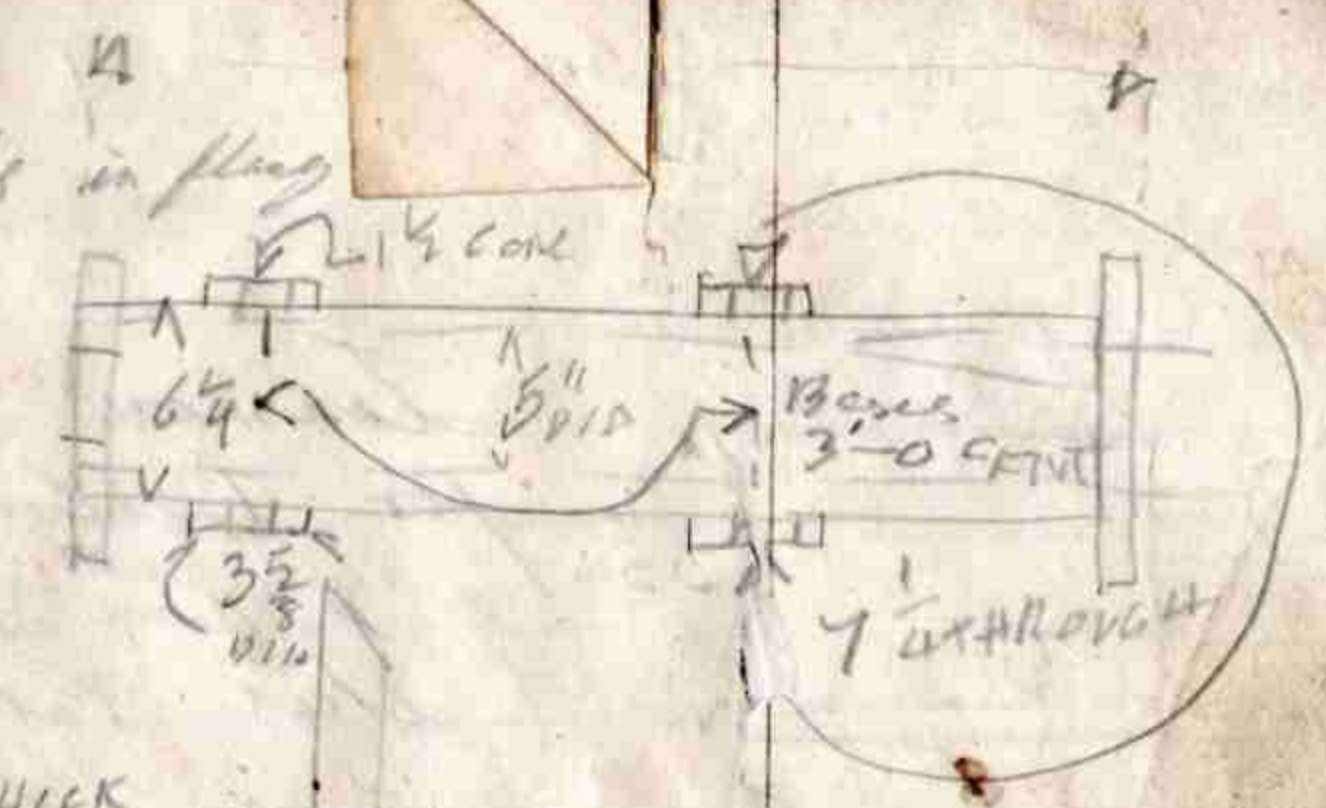
Dean & Sawas

8 = 5/8 DIA Holes in flang



FLANG 10 1/2 DIA X 7/8 THICK

Gyudwell



10 1/4 Holes
8 1/4 CENT
8 5/8 DIA Holes

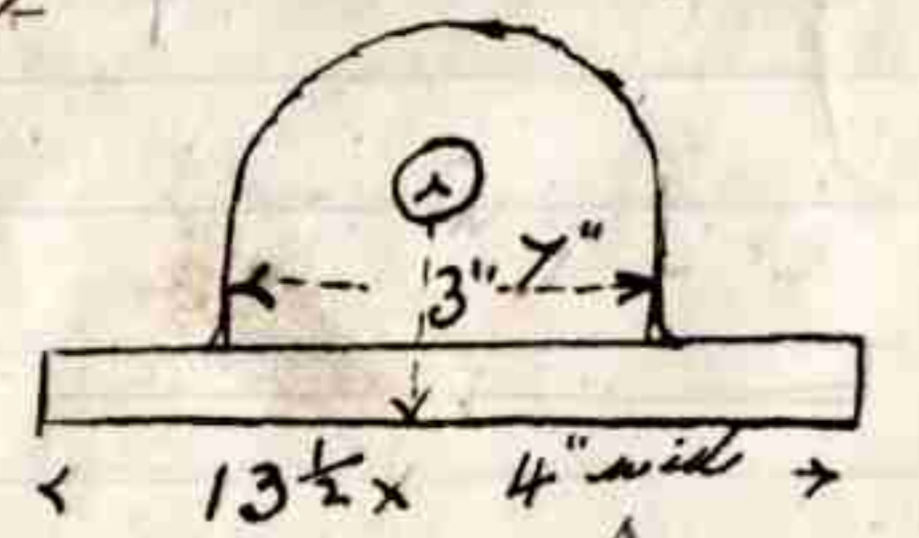
Dean & Sawas

Wilmington Eng Co

Buller's

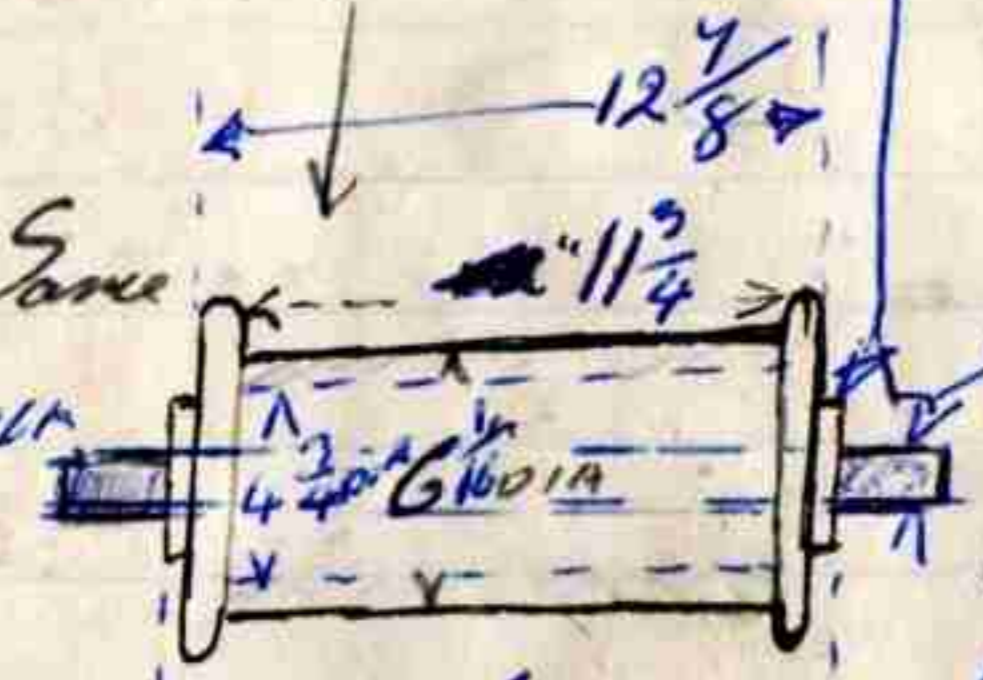
Red for with Blue Eraser
New Boston Plant

4149



2 1/2 DIA X

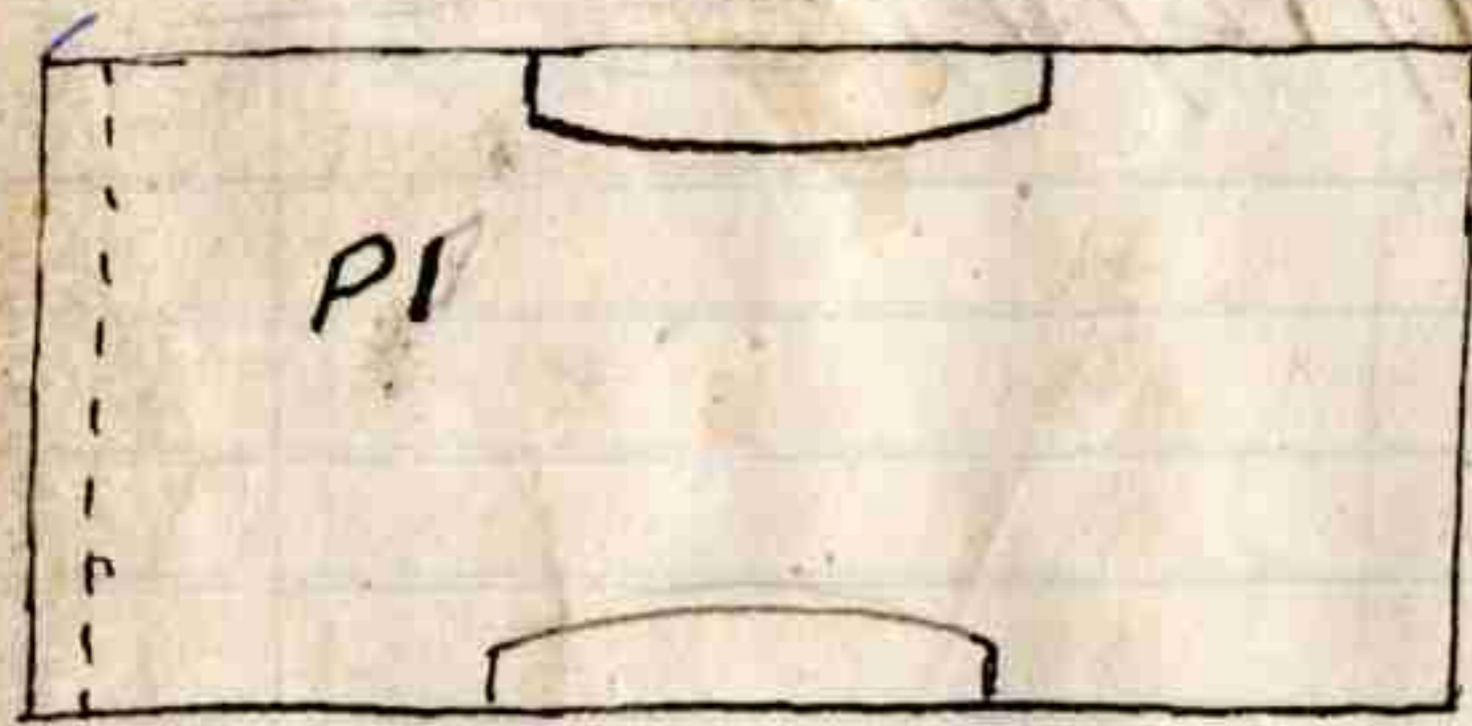
1 6" DIA Roller for same
with 9" DIA flanges 9/16 THICK



Spindle 2 1/4 DIA X
2 1/2 long

4104

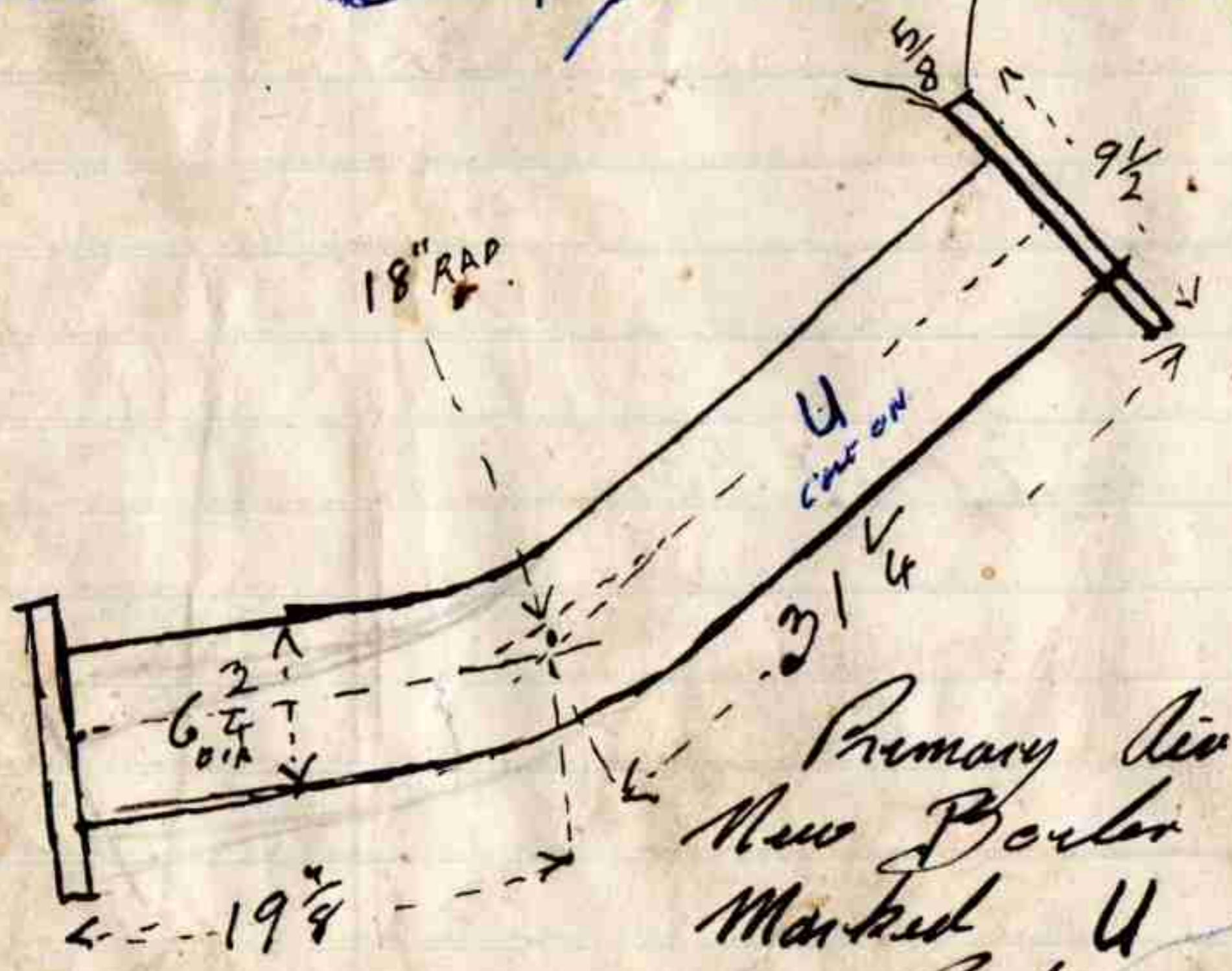
Main flue
spindle, cut in.



4106

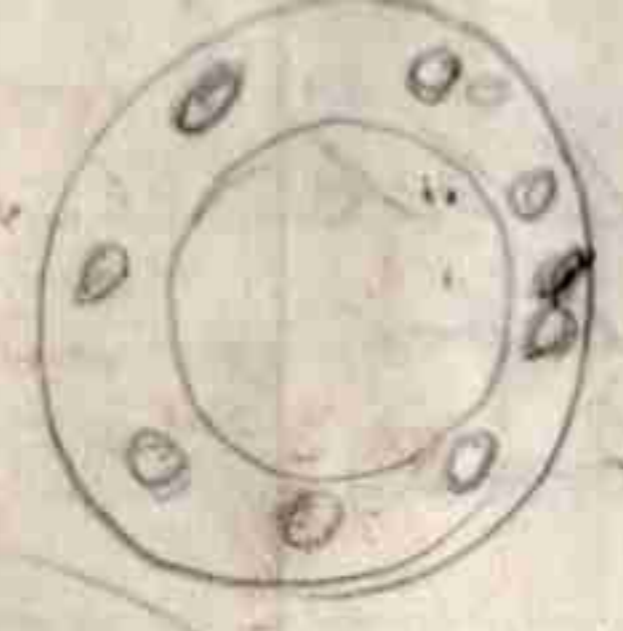
Crosshead Bar for Boiler Plant Pump

2833



4590

Primary Air Range
New Boston Plant
Marked U on
Casting



FLANG 10 1/4 DIA X 7/8 THICK

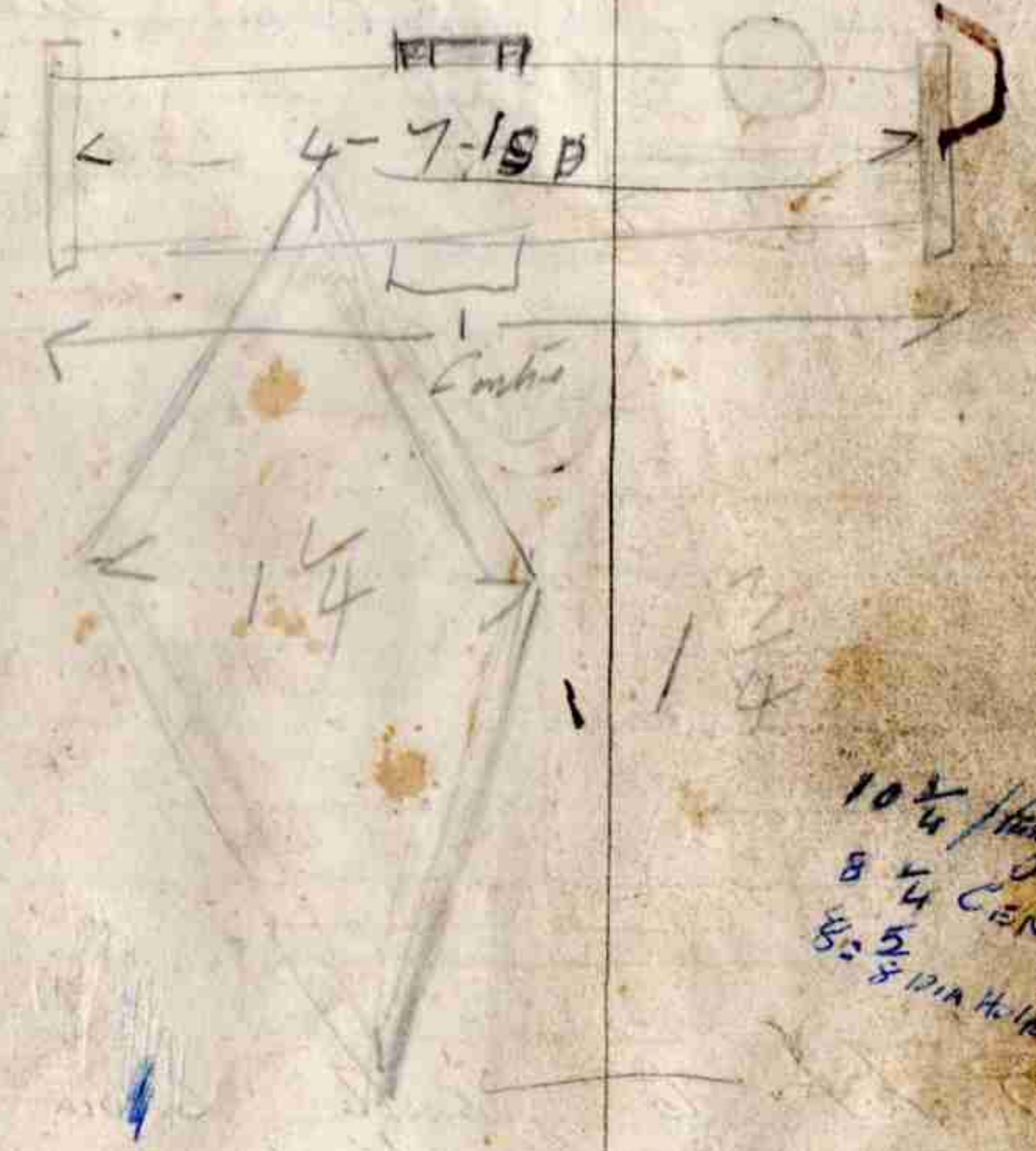


Spindle

Dean & Lowes

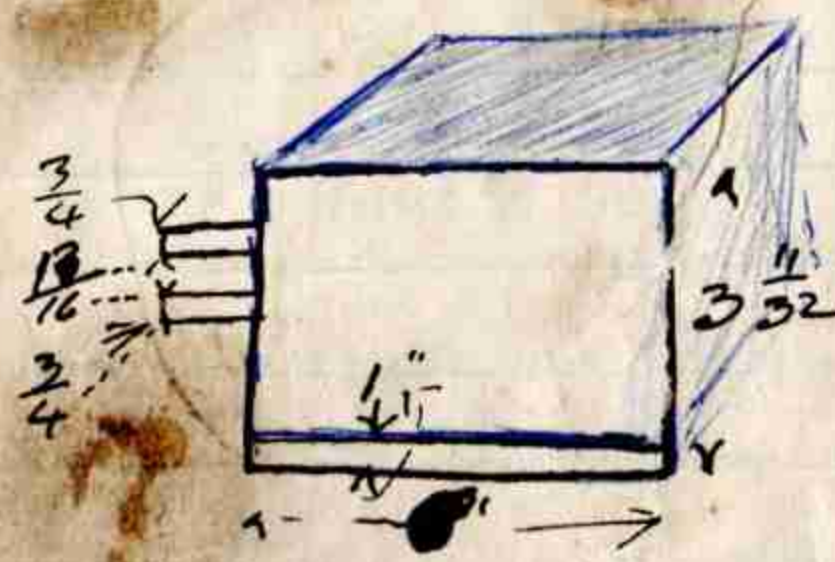
Kensington Eng Co

Fullers.



10 1/4 / long
8 1/4 CENT
8:5
8 DIA Holes

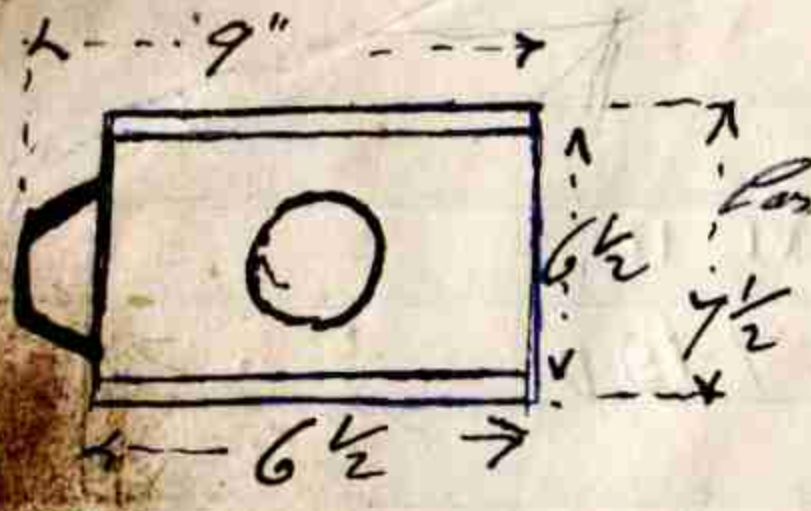
241
5/19/59



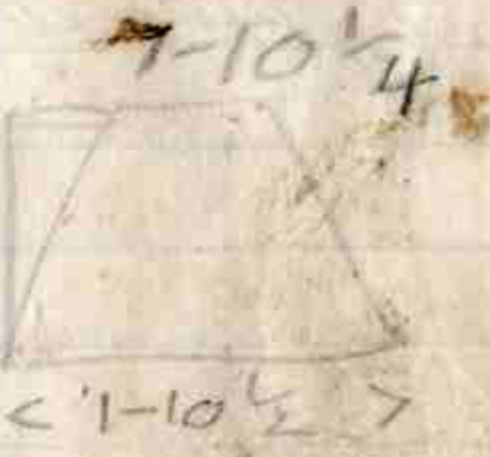
Tension Block
for Boiler Plant
2 Core Boxes
This Part
sent to
R. Hyde & Sons
Part in Steel

WEIRS
Glass Ltd
25291

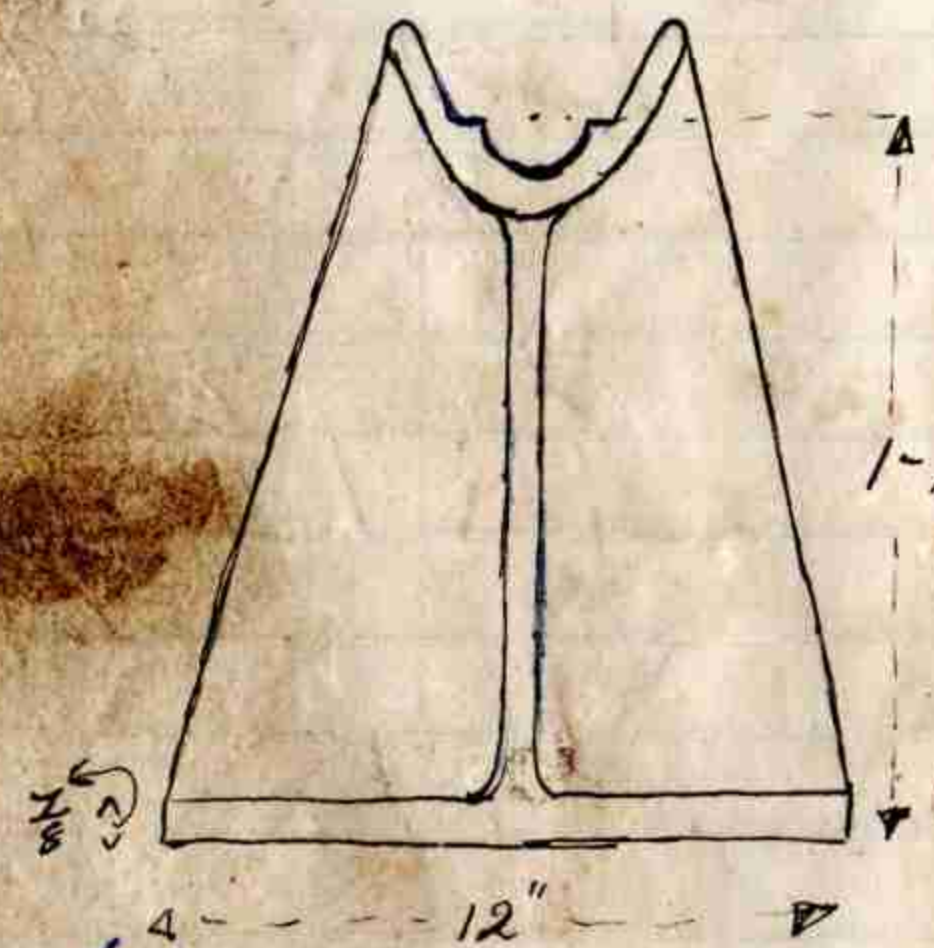
4415



3-10x
3-8



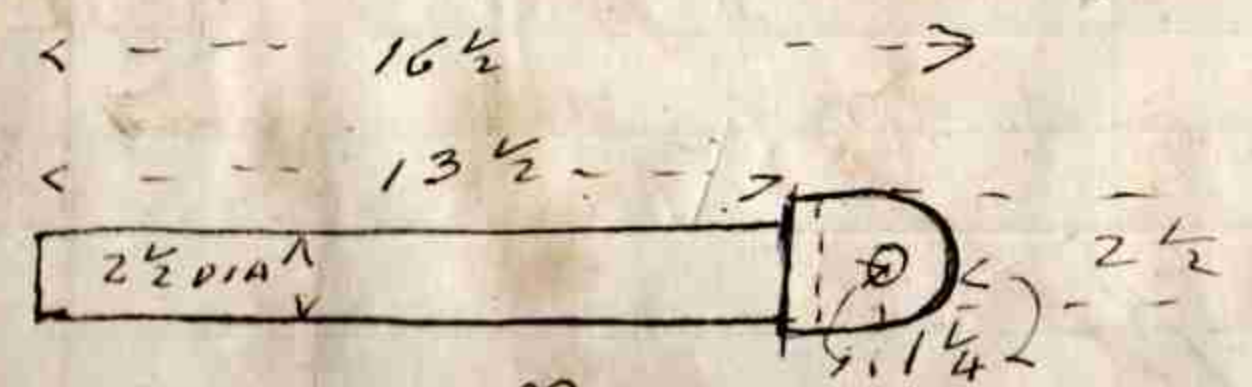
4105



Bracket to suit 6" dia rollers
for Boiler Plant.

Valve for No 2 Boiler Pump

3748



Line pump frame.

4591

25
5
7
9

Hyde & Sons

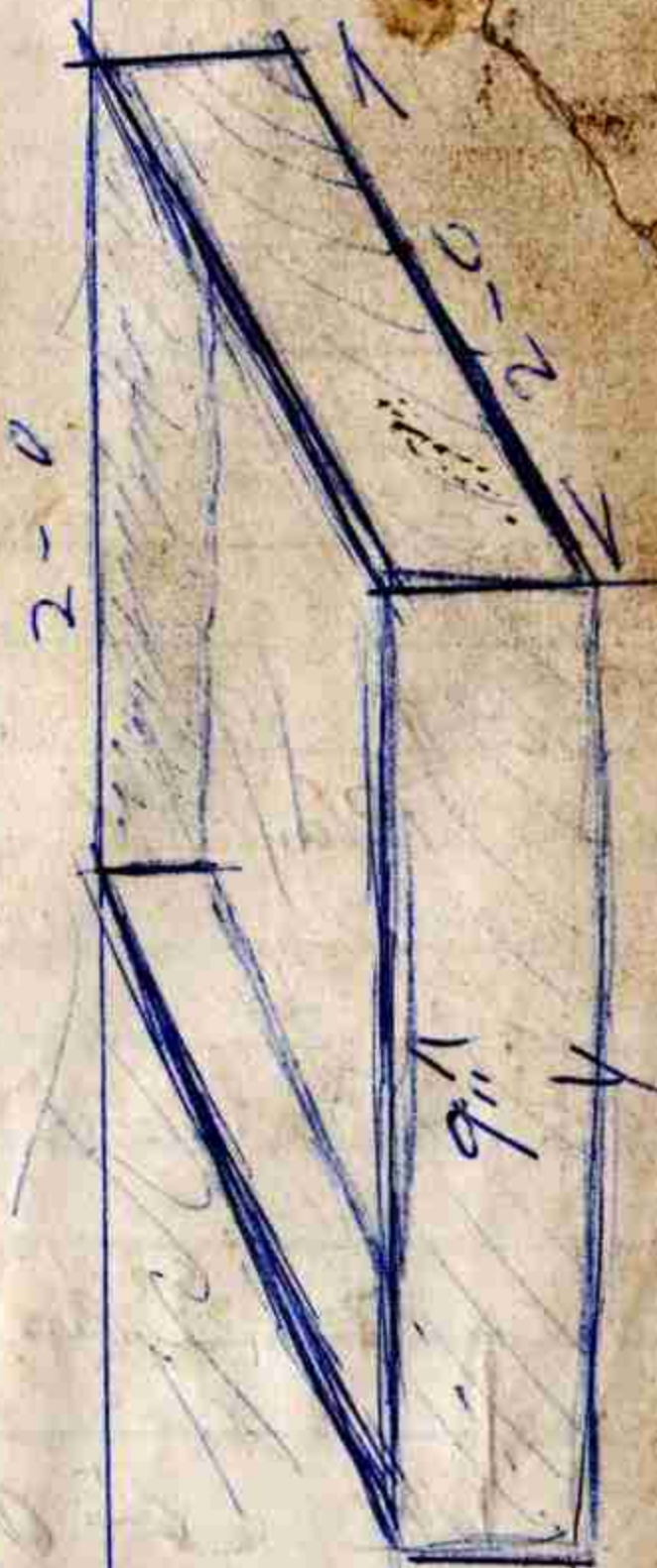
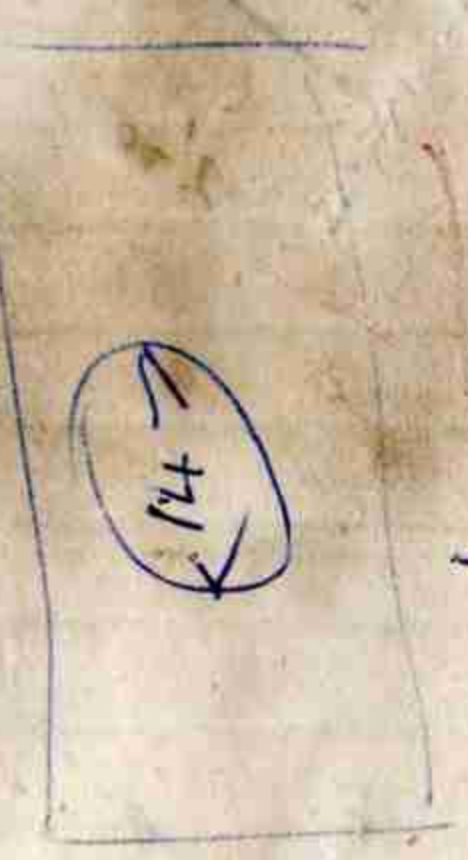
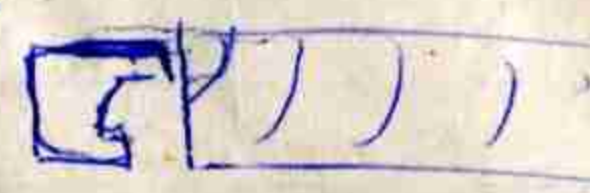
Dean & Sons



Kensington Eng Co

6/2/59

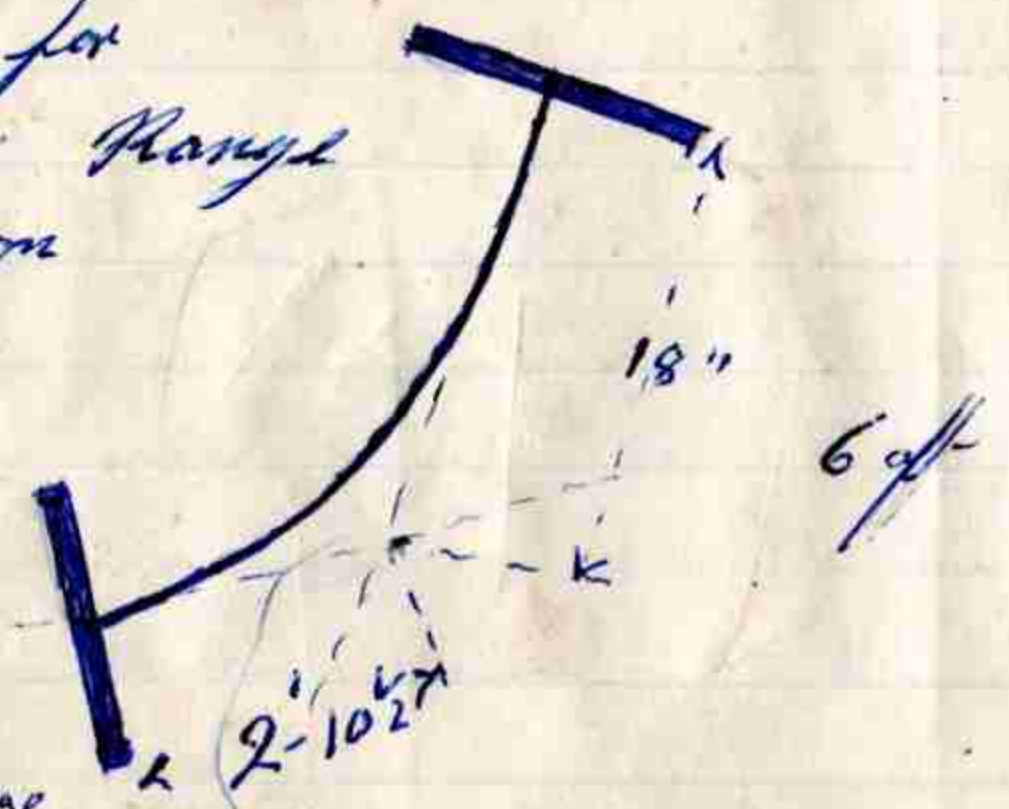
RAH



50# 2-0 x 2 1/2 x 1/2

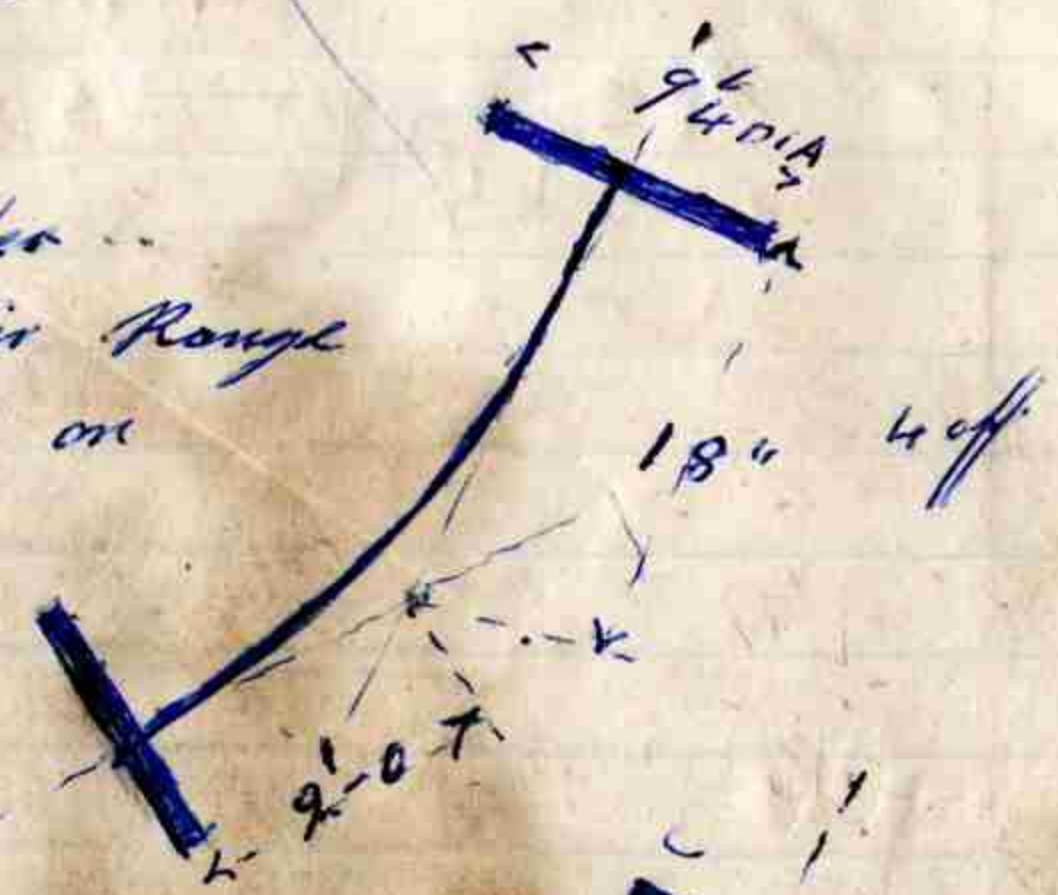
Kensington Eng Co

6" C.I. Pipe for
Boiler Plant Air Range
with X Part on
9 1/2 DIA flanges



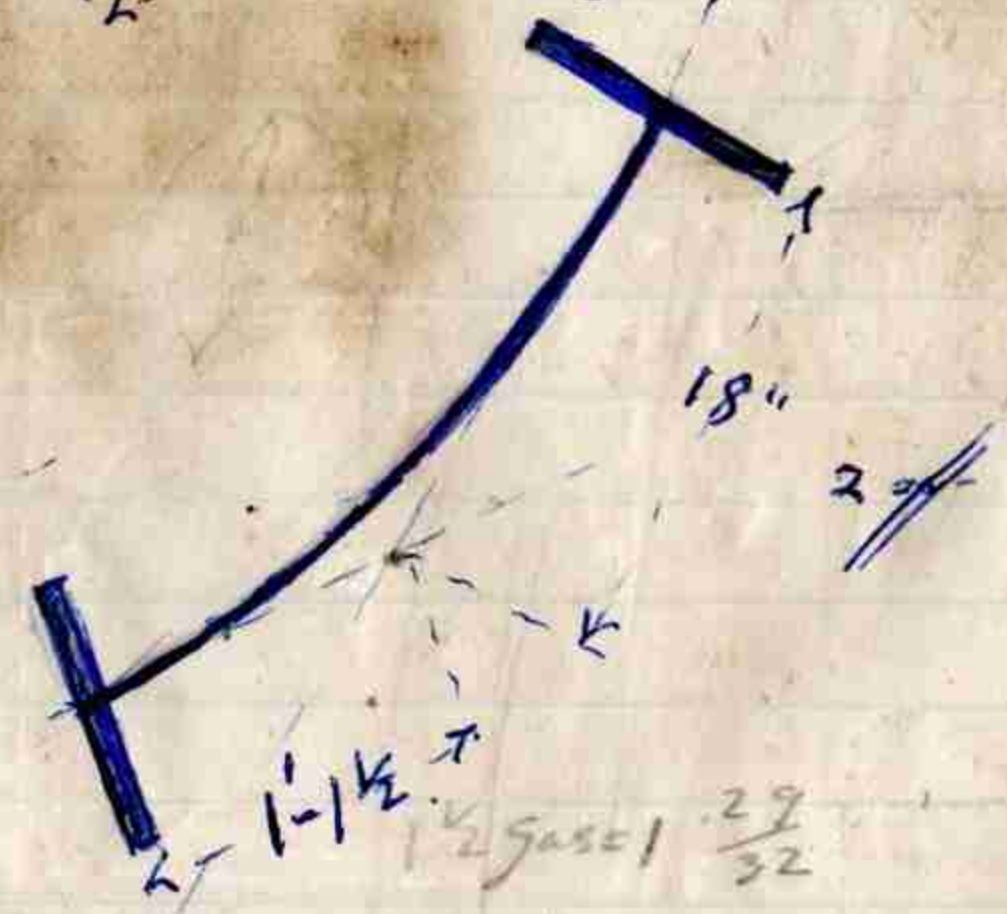
899 X

6" C.I. Pipe for
Boiler Plant Air Range
with Y Part on
9 1/2 DIA flanges

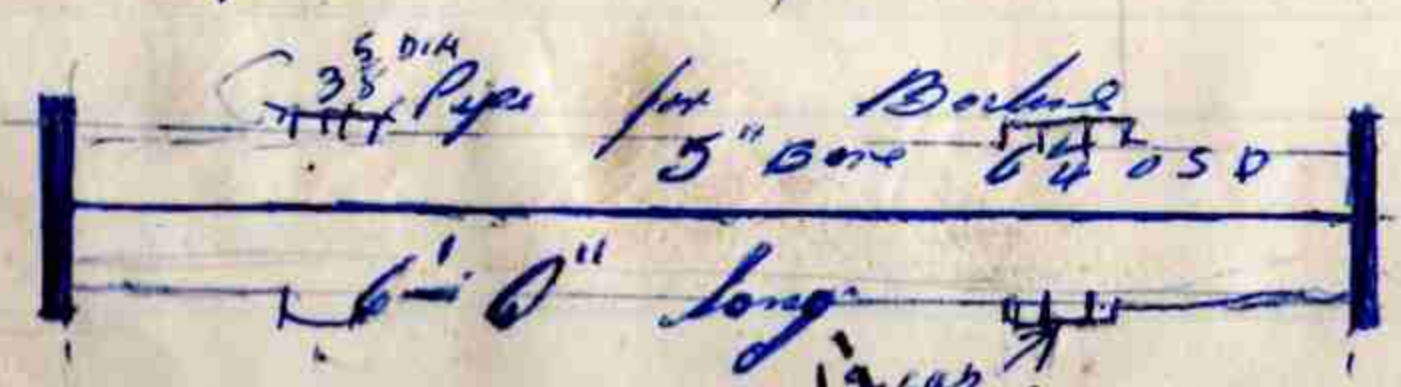


899 Y

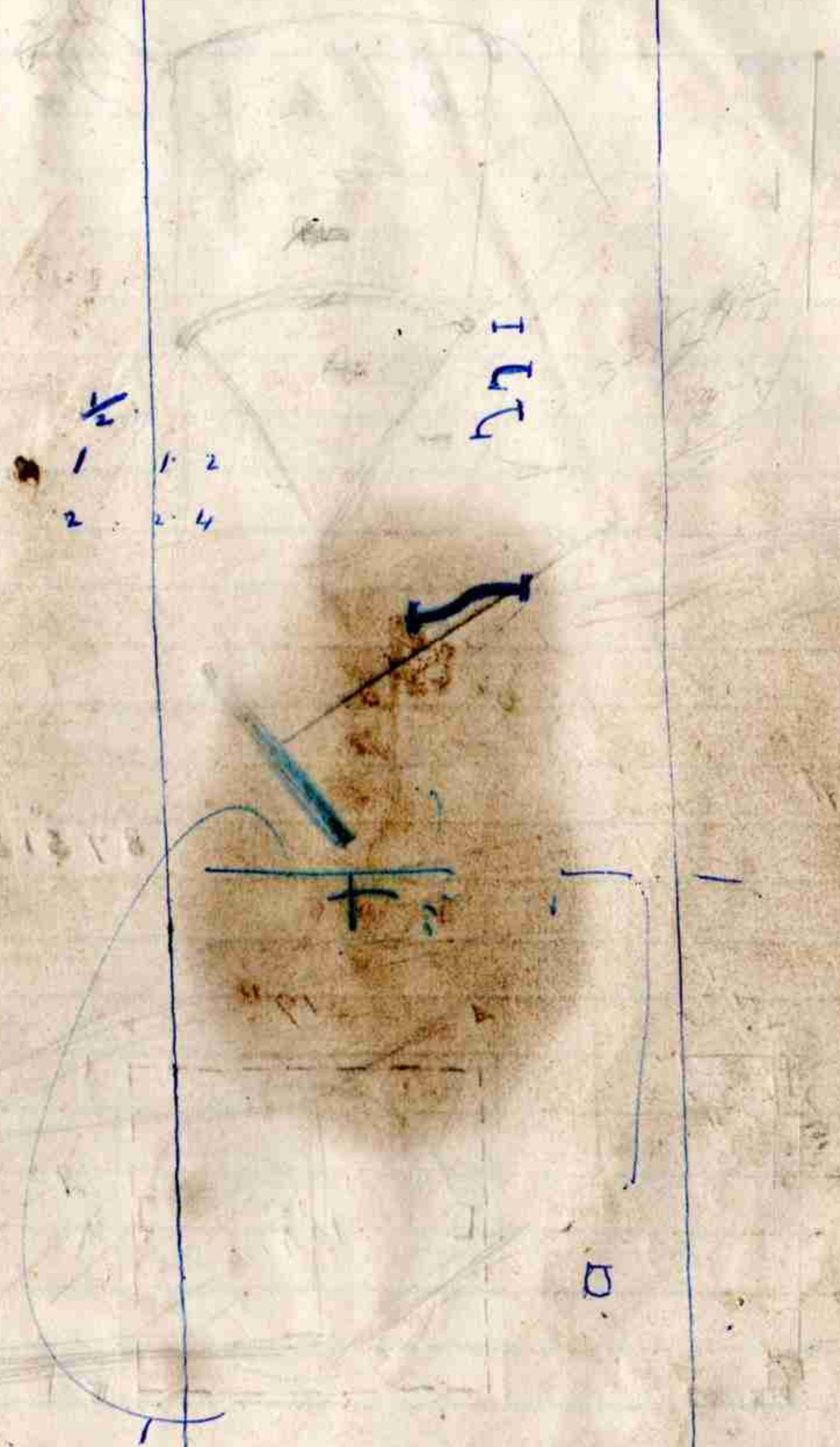
6" C.I. Pipe for
Boiler Plant
Air Range
with Z Part on
9 1/2 DIA flanges



899 Z

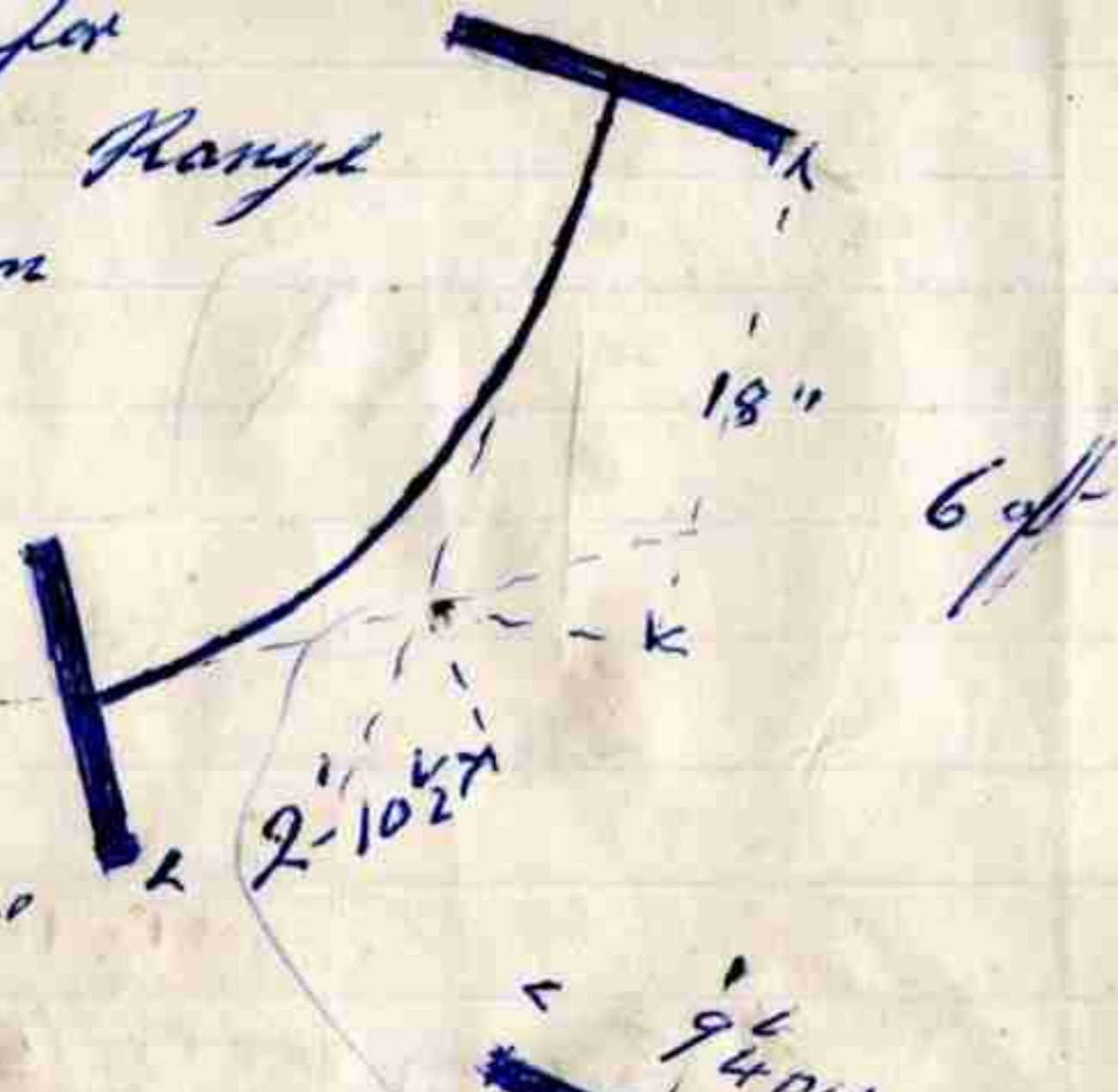


2898
2899
2899



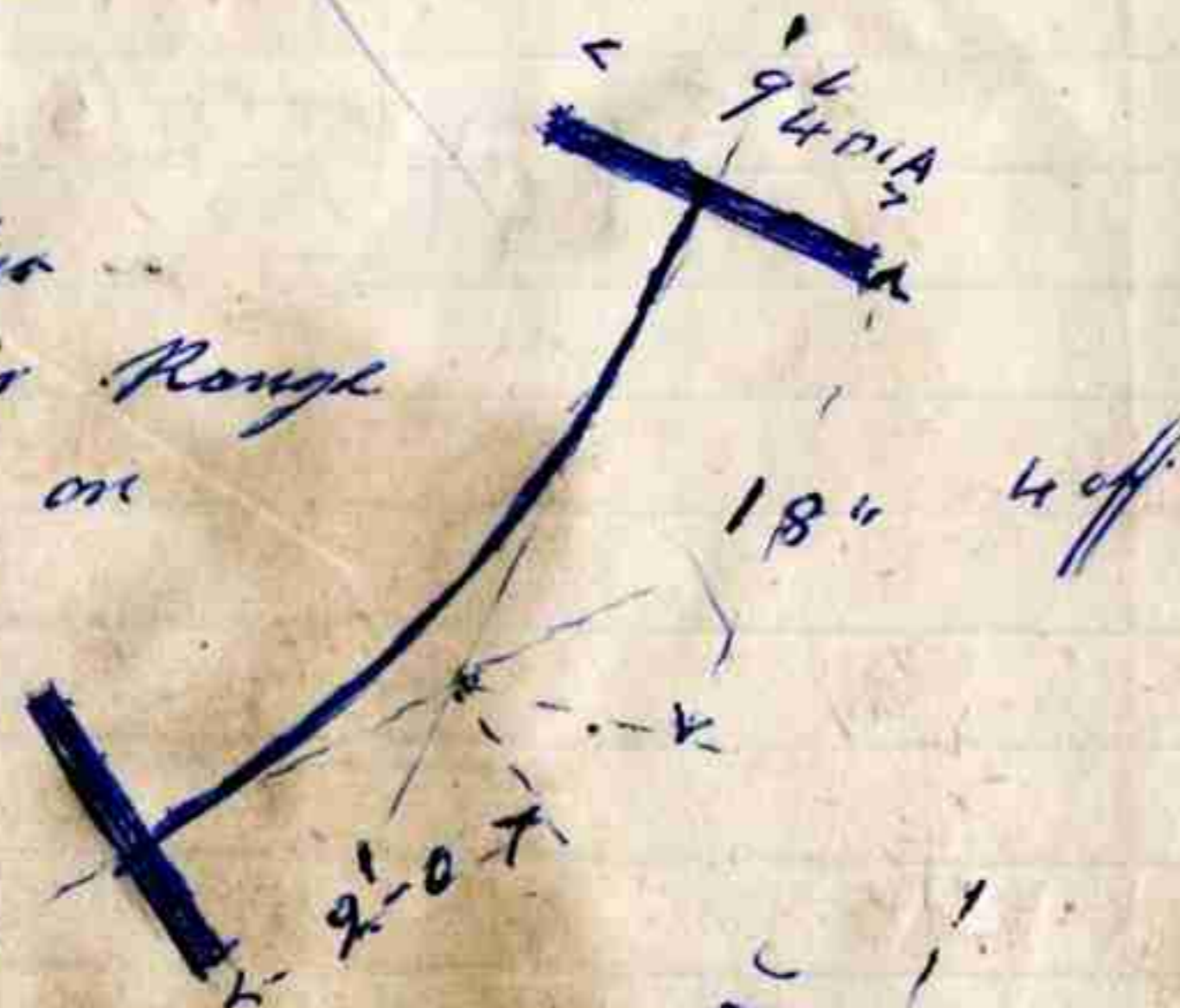
6" C.I. Pipe for
Boiler Plant Air Range
with X Part on
9 1/2 DIA flanges

899 X



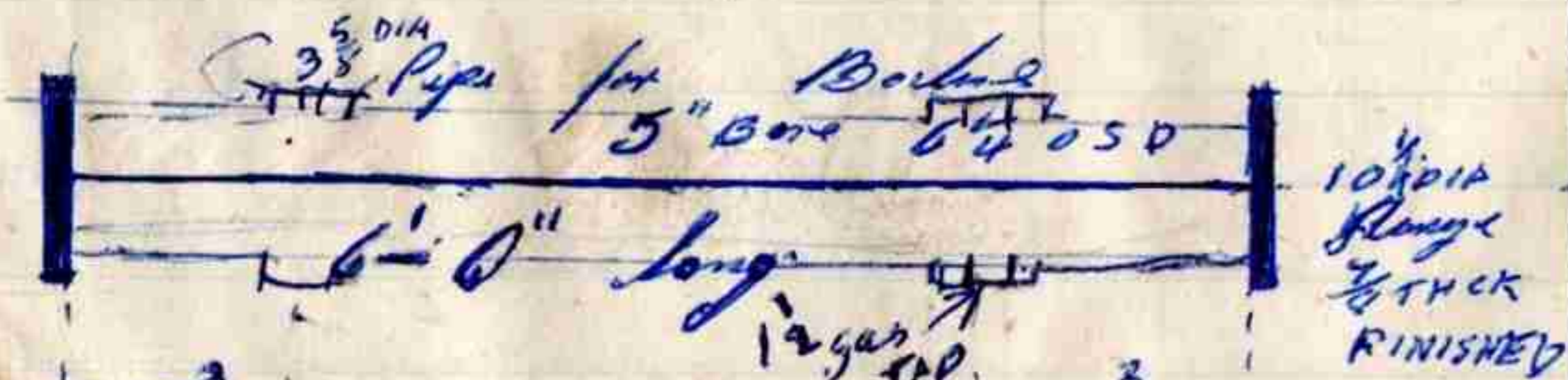
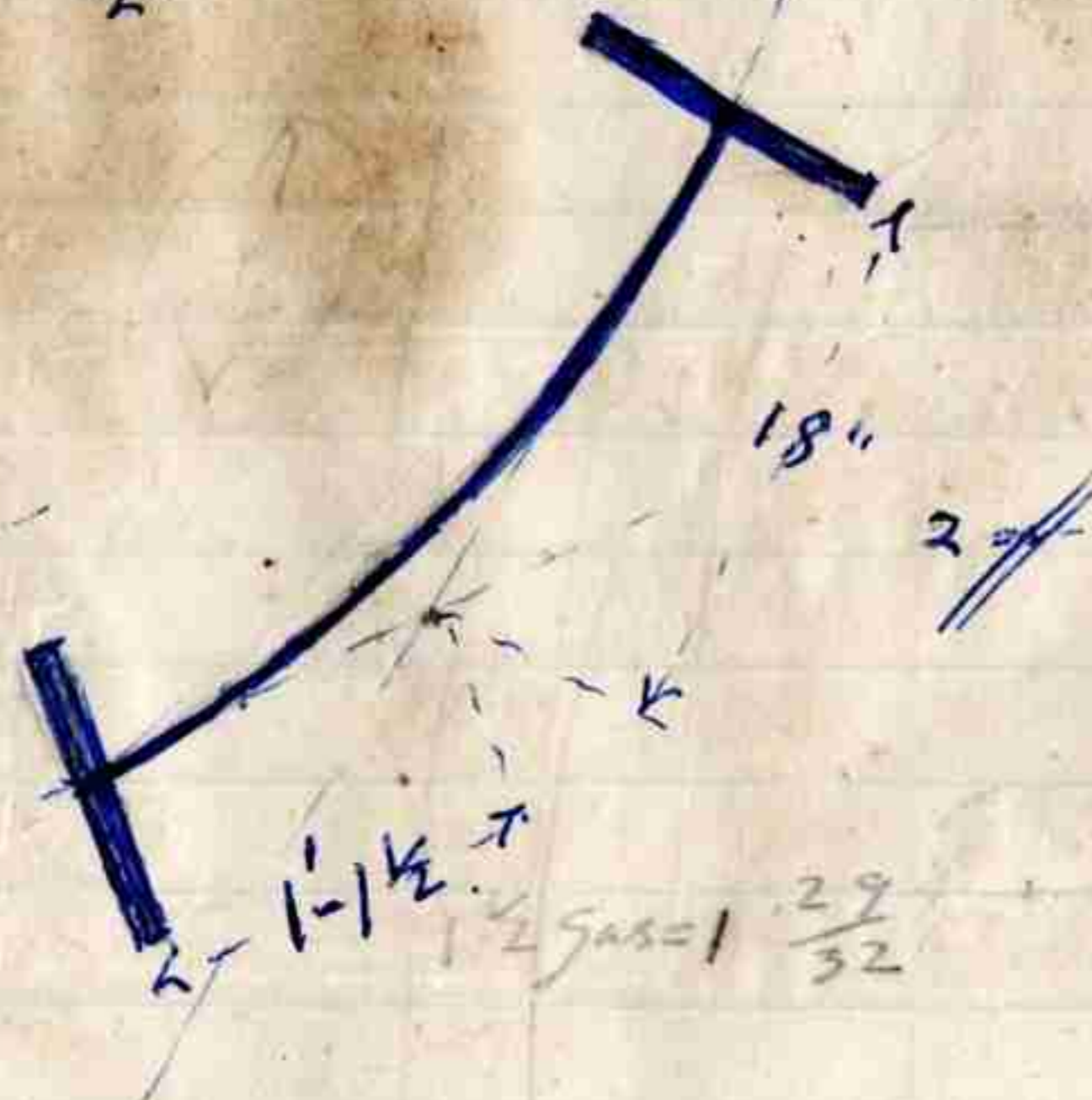
6" C.I. Pipe for
Boiler Plant Air Range
with Y Part on
9 1/2 DIA flanges

899 Y



6" C.I. Pipe for
Boiler Plant
Air Range
with Z Part on
9 1/2 DIA flanges

899 Z



2898

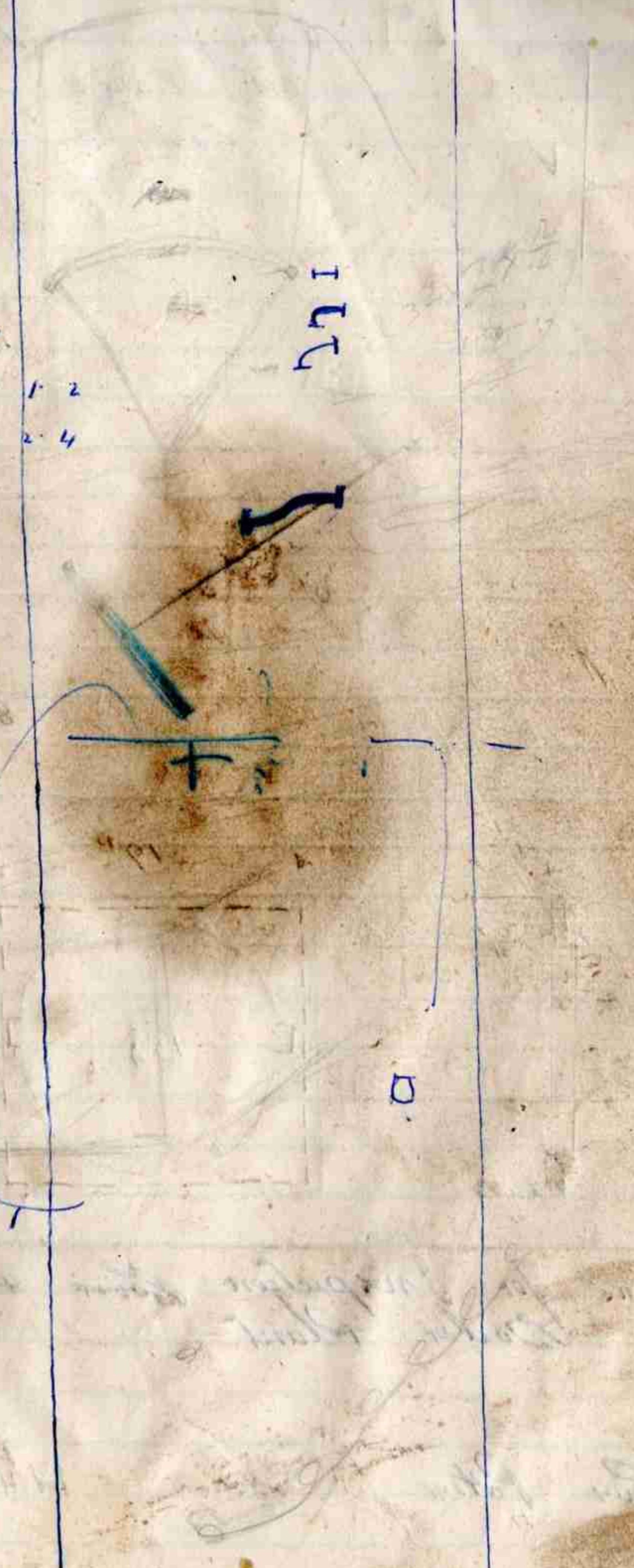
2899

~~2899~~

8 1/2 CENT

8 HOLES 1 1/2 DIA

2 Holes in Flange for the Lime Tank
2 Holes on Top
1 1/2 Gas in Boilers

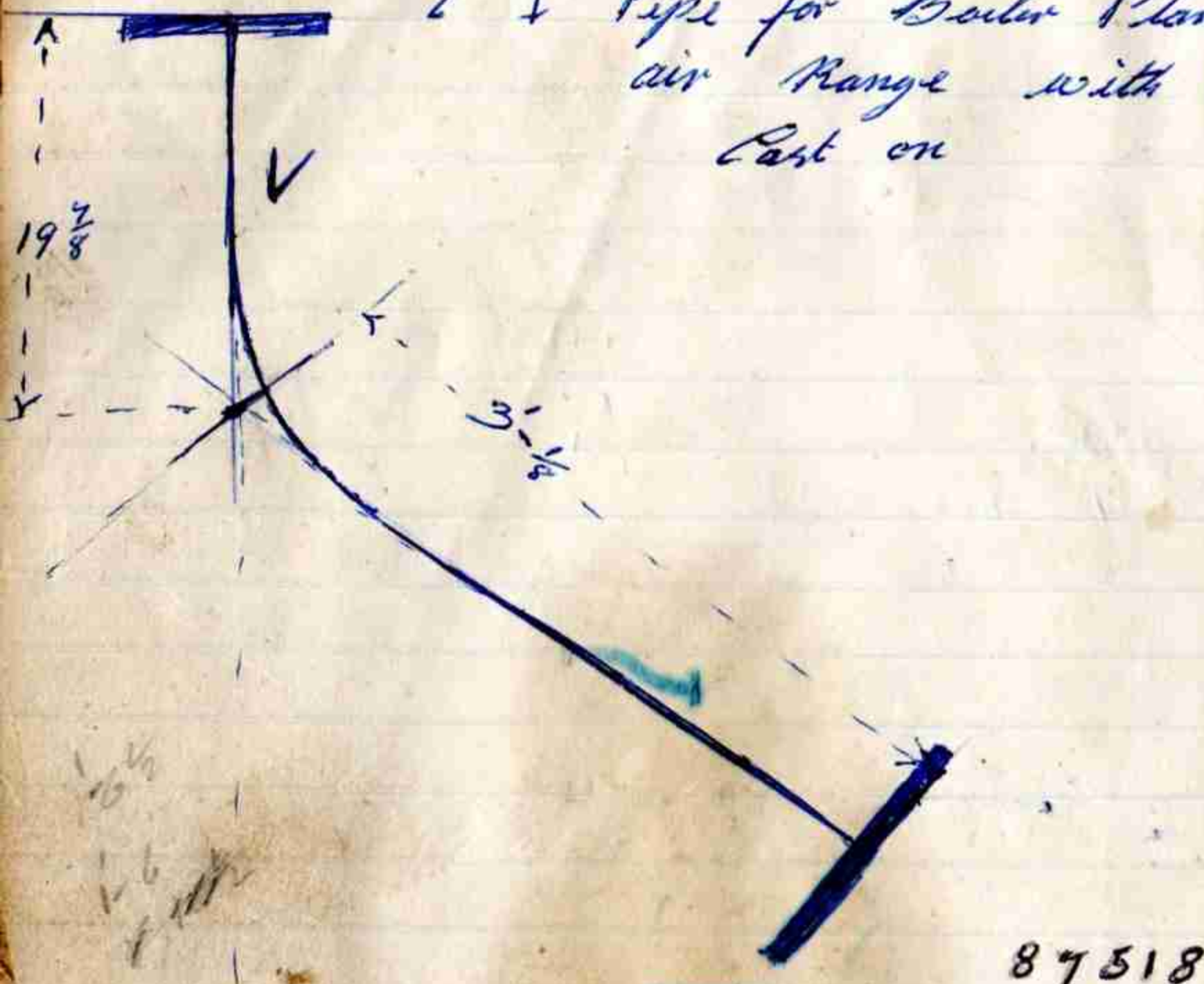


Mulcahy

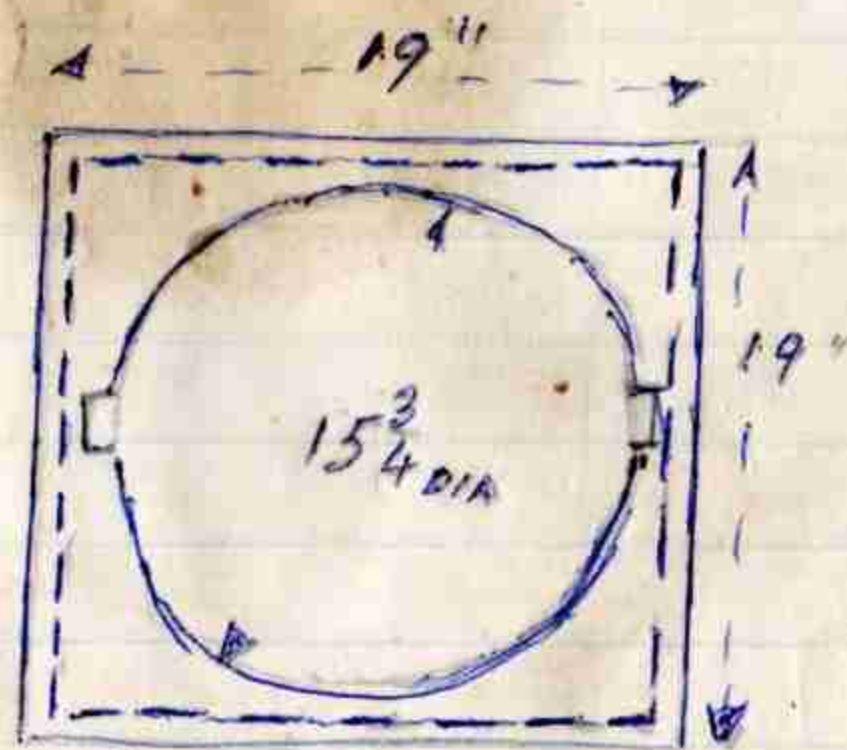
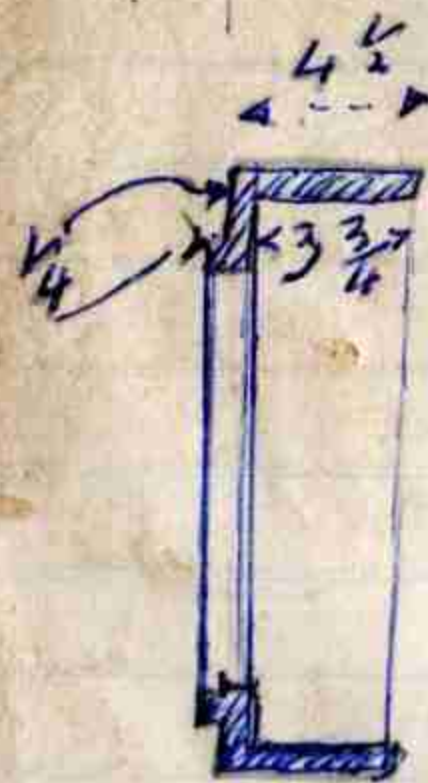
Kearney & Co
Eng'rs

PI Pipe for Boiler Plant
air Range with V
Cast on

899V



87518



4609

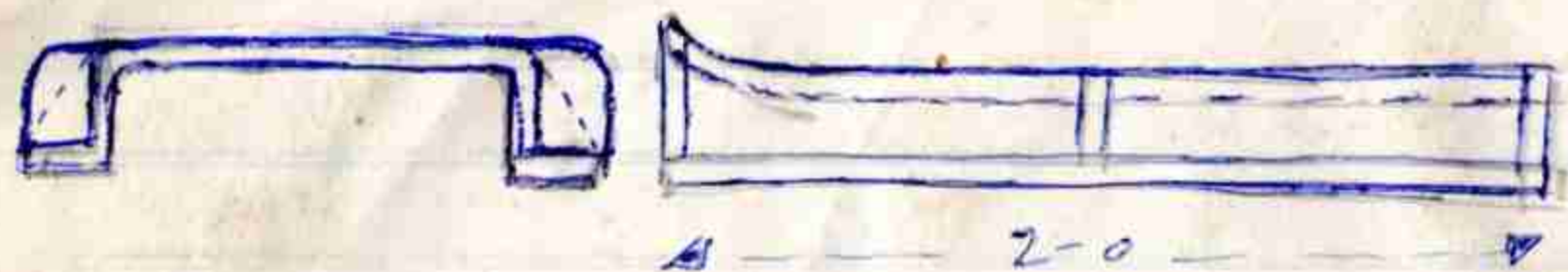
Patterns for Inspection Cover & Frame
for Boiler Plant

Cast Pattern for same 17 1/4 DIA

4610

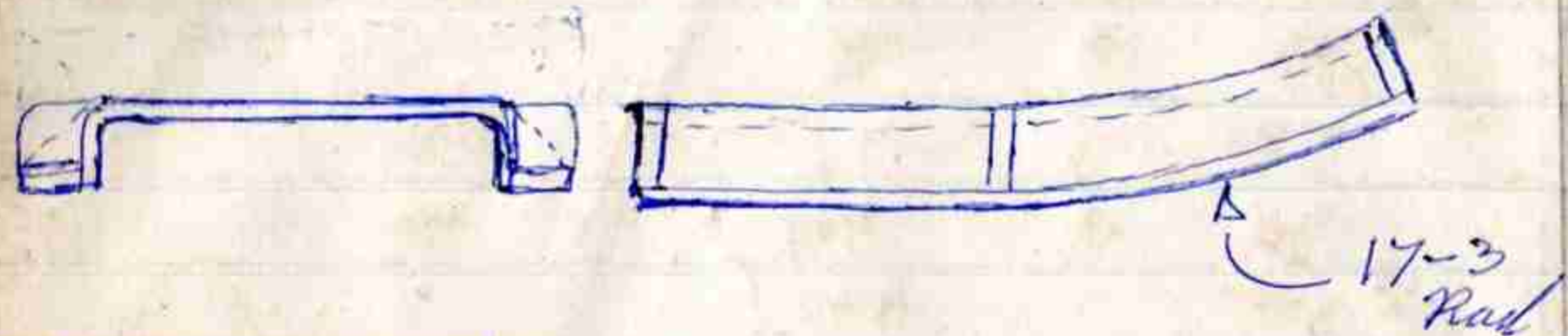


Open Troughs for Chain Guide



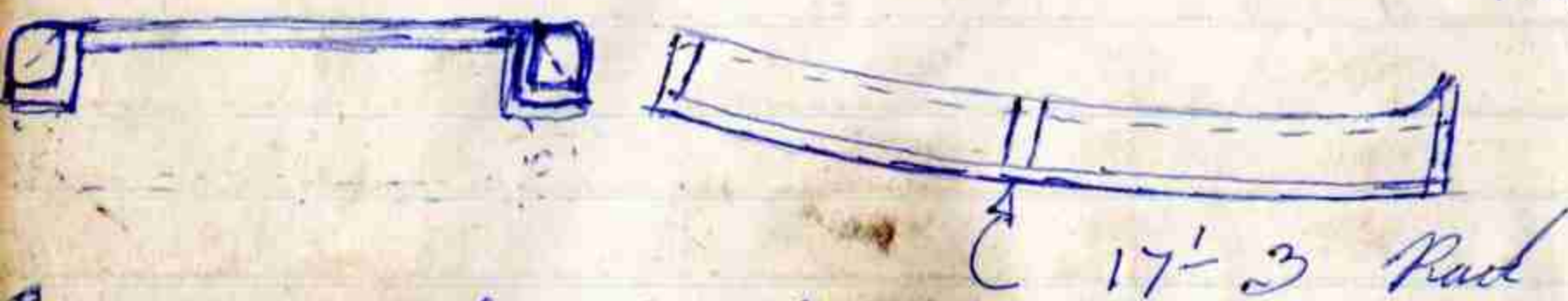
4610

Kensington Eng Co



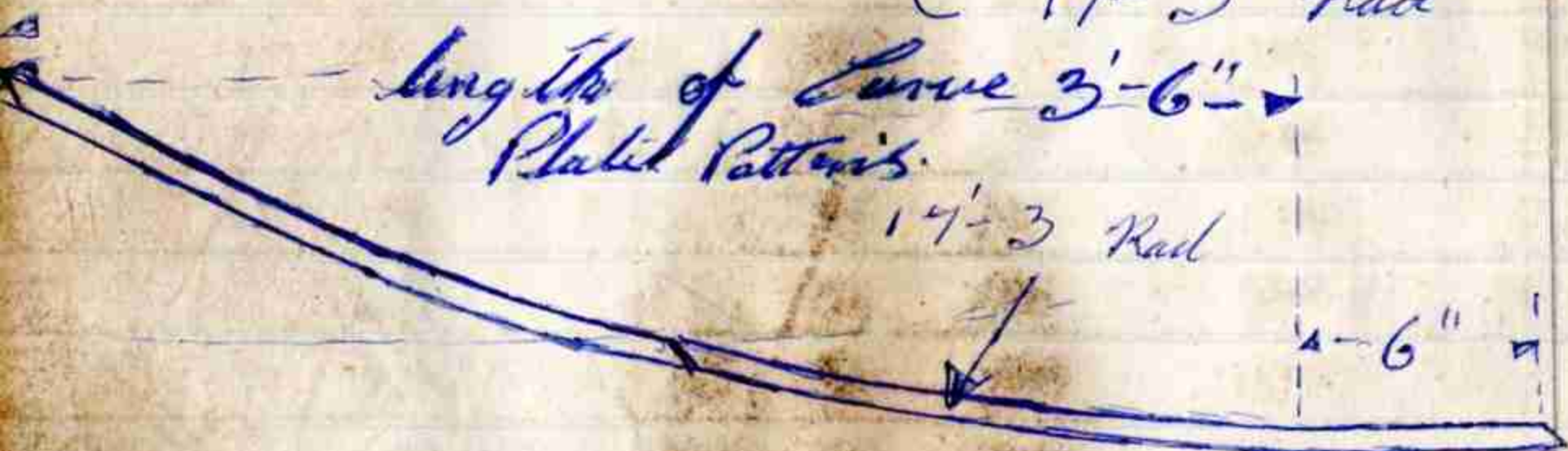
4609

" " "



4608

" " "



4109 P5

Dunn & Lewis



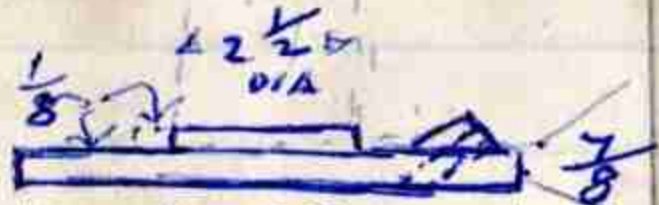
4121

" "



4619

Housing Pattern



4620

Cover Pattern

Kensington Eng Co

1 Plate Pattern for Boiler Plant 4459
9'-3" x 9" x 3/4"

" " "

Charlesworth's Formula.

Adjustment of Winding Ropes on Cylinders - Conical Drums - Meskett.

East Rope, 17" above bank level - West Rope, 32" below Bank level.

Required to adjust ropes so that each cage is exactly at bank level when the other cage is in pit bottom.

$$a = +17''$$

$$b = -32''$$

$$x \frac{D}{d} + y = a = x \frac{20}{14} + y = 17$$

$$x + y \frac{D}{d} = b = x + \frac{20}{14} y = -32$$

$$x \left(\frac{20}{14} + 1 \right) + y \left(\frac{20}{14} + 1 \right) = a + b = x \left(2 \frac{3}{7} \right) + y \left(2 \frac{3}{7} \right) = -15$$

$$x + y = \frac{a+b}{\left(\frac{D}{d} + 1 \right)} = x + y = \frac{-15}{2 \frac{3}{7}} = -6.18$$

$$b - y \frac{D}{d} + y = \frac{a+b}{\left(\frac{D}{d} + 1 \right)} = -32 - y \frac{20}{14} + y = \frac{-15}{2 \frac{3}{7}} = -6.18$$

$$y \left(1 - \frac{D}{d} \right) = \frac{a+b}{\frac{D}{d} + 1} - b = -.428y = -6.18 - -32$$

$$= -.428y = 25.82 = \underline{-60.326''}$$

$$x = -32 + \left(60.326 \times \frac{20}{14} \right) = \underline{x = 53.7''}$$

Therefore East Rope to be shortened 60.326''

" West " " lengthened 53.7''

This adjustment was tested at the Meskett and found correct. M.J.C.

East Rope 9" short, West Rope 36" long.

$$x \frac{20}{14} + y = 9''$$

$$x + y \frac{20}{14} = -36''$$

$$x \left(\frac{20}{14} + 1 \right) + y \left(\frac{20}{14} + 1 \right) = a + b = 2 \frac{3}{7} x + 2 \frac{3}{7} y = -27''$$

$$x + y = \frac{a+b}{\left(\frac{D}{d} + 1 \right)} = x + y = \frac{-27}{2 \frac{3}{7}} = -11.12''$$

$$b + y \frac{20}{14} + y = \frac{a+b}{\left(\frac{D}{d} + 1 \right)} = -36 - \frac{20}{14} y + y = \frac{-27}{2 \frac{3}{7}} = -11.12''$$

$$y \left(1 - \frac{D}{d} \right) = \frac{a+b}{\left(\frac{D}{d} + 1 \right)} - b = -.428y = -11.12 - -36''$$

$$= 24.88$$

$$y = \frac{24.88}{.428} = \underline{-58.06}$$

$$x = b - \frac{20}{14} y = x = -36 - -83$$

$$= \underline{+47''}$$

Therefore East Rope to be shortened 58.06''

" West " " lengthened 47''

October 1924.