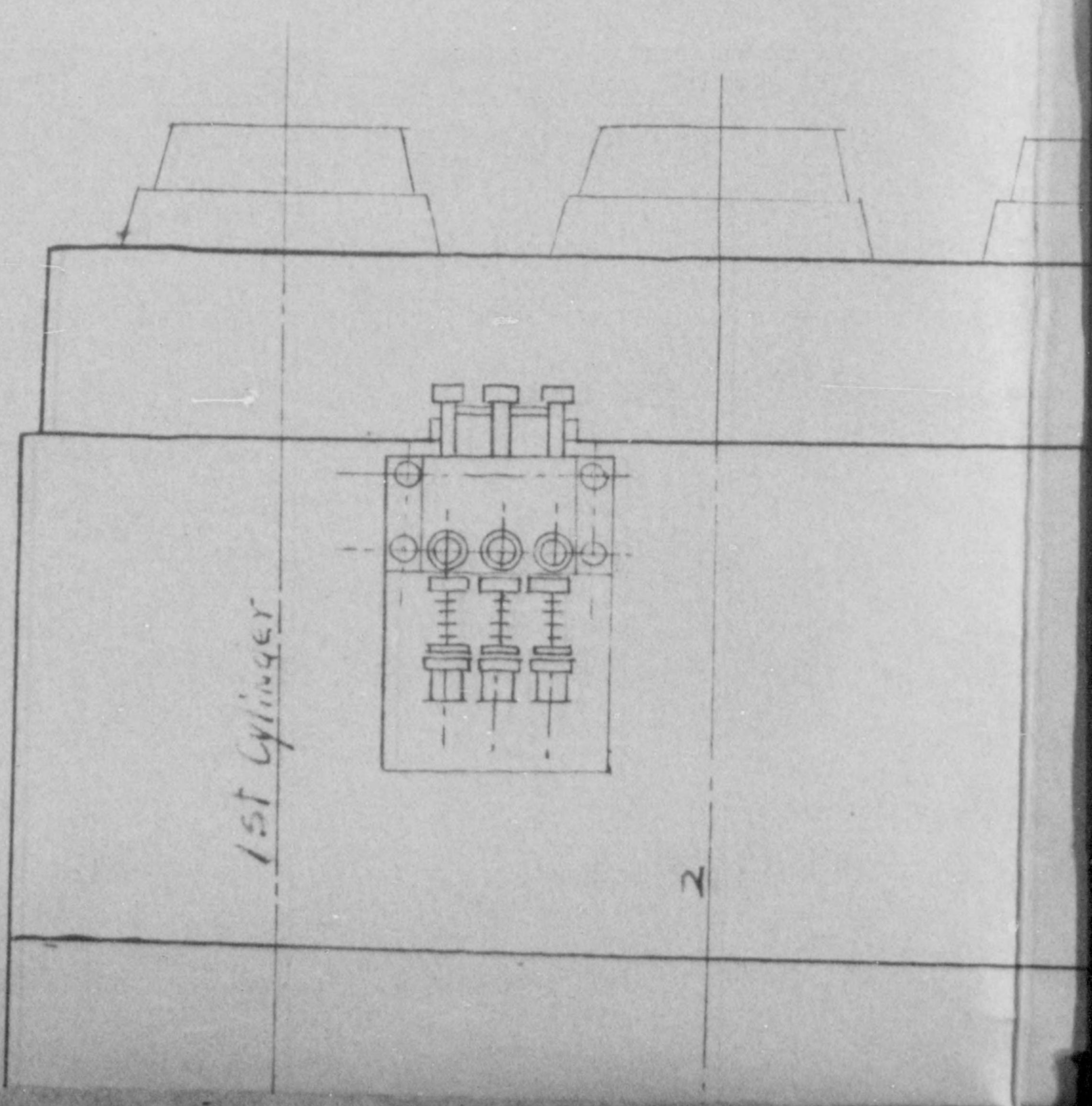
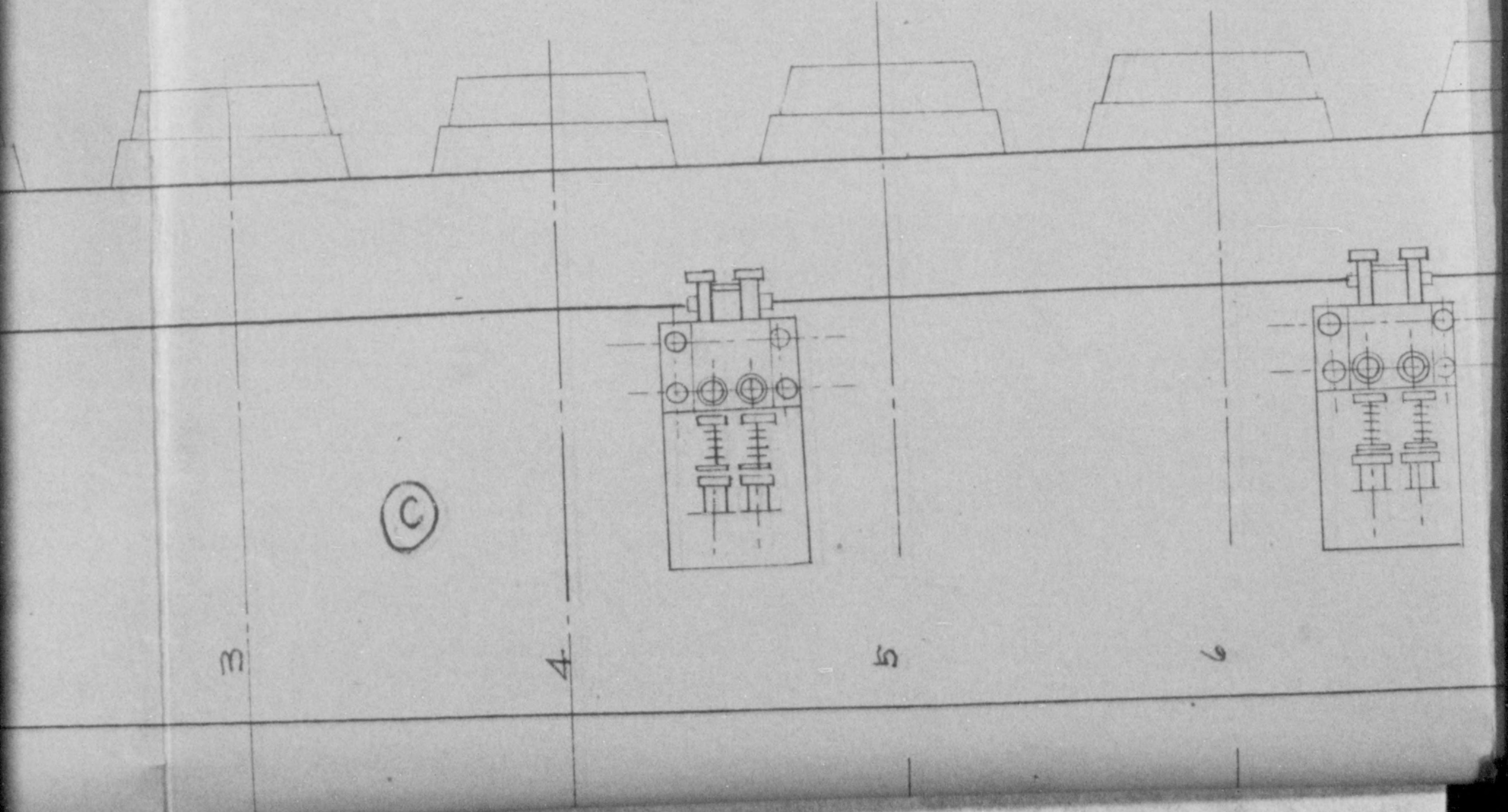
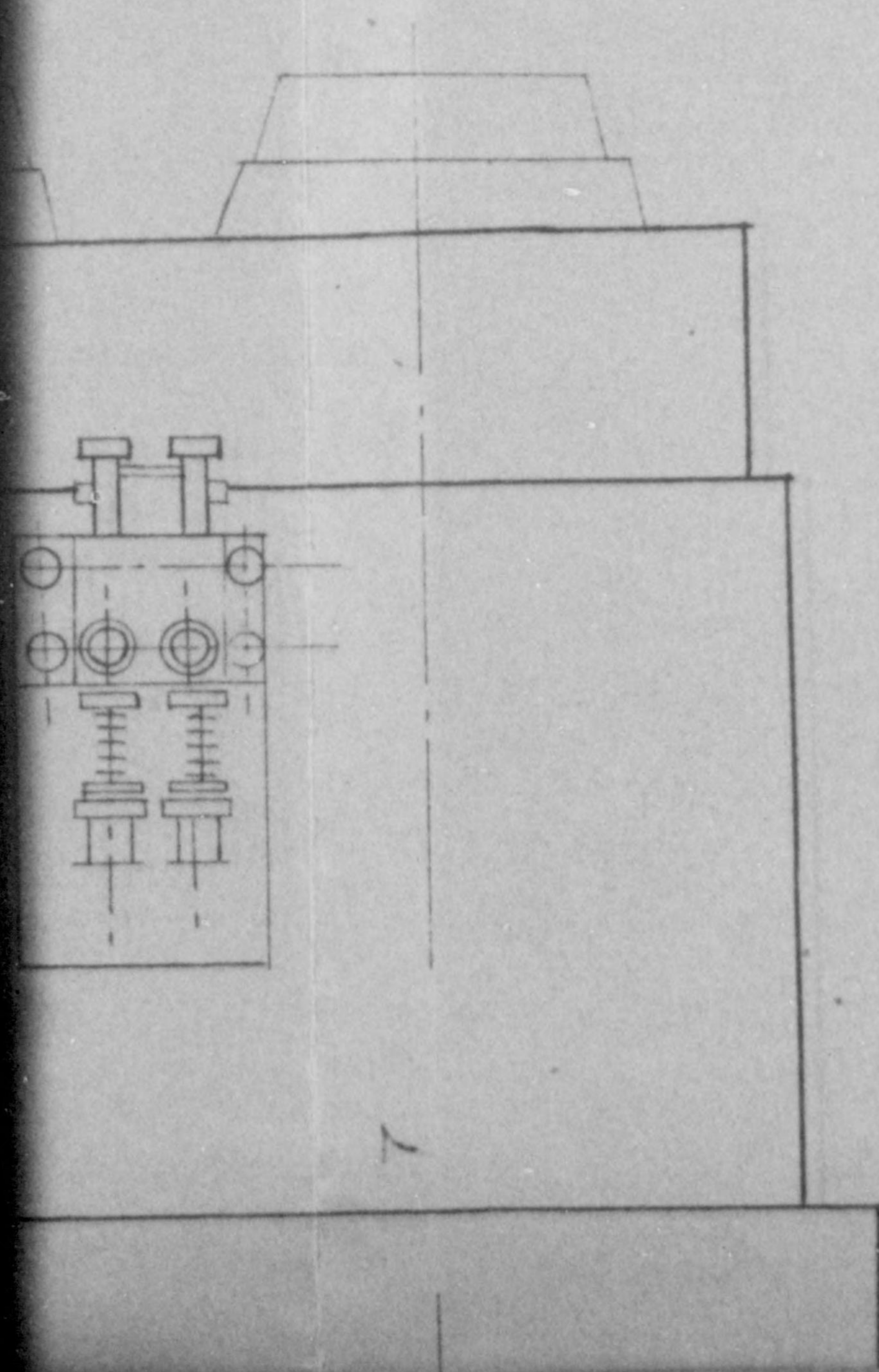


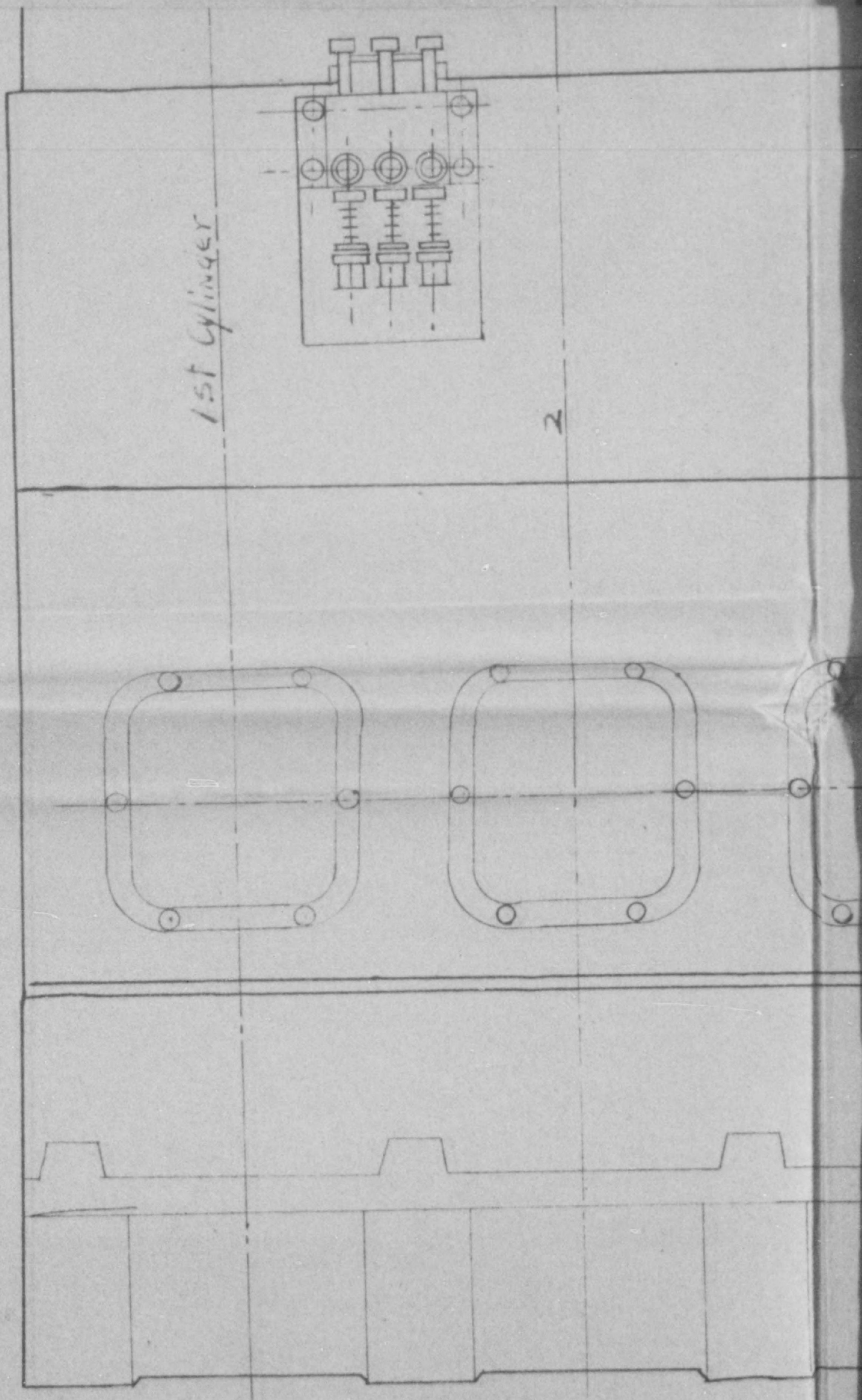
CHART X-1

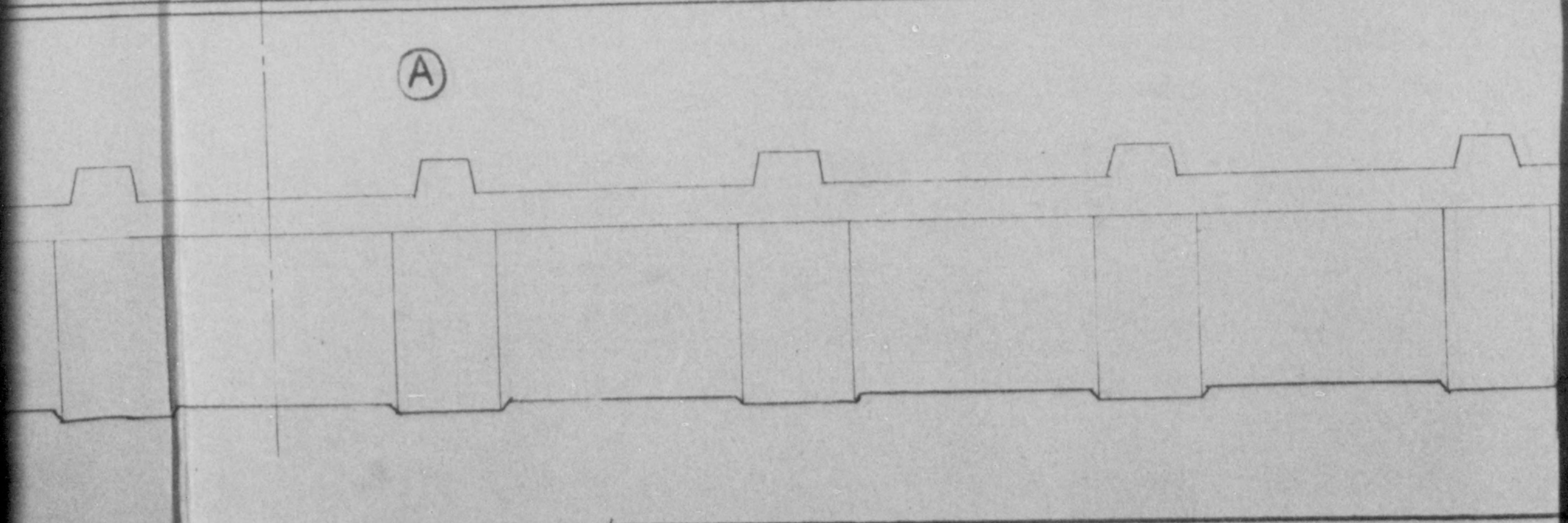
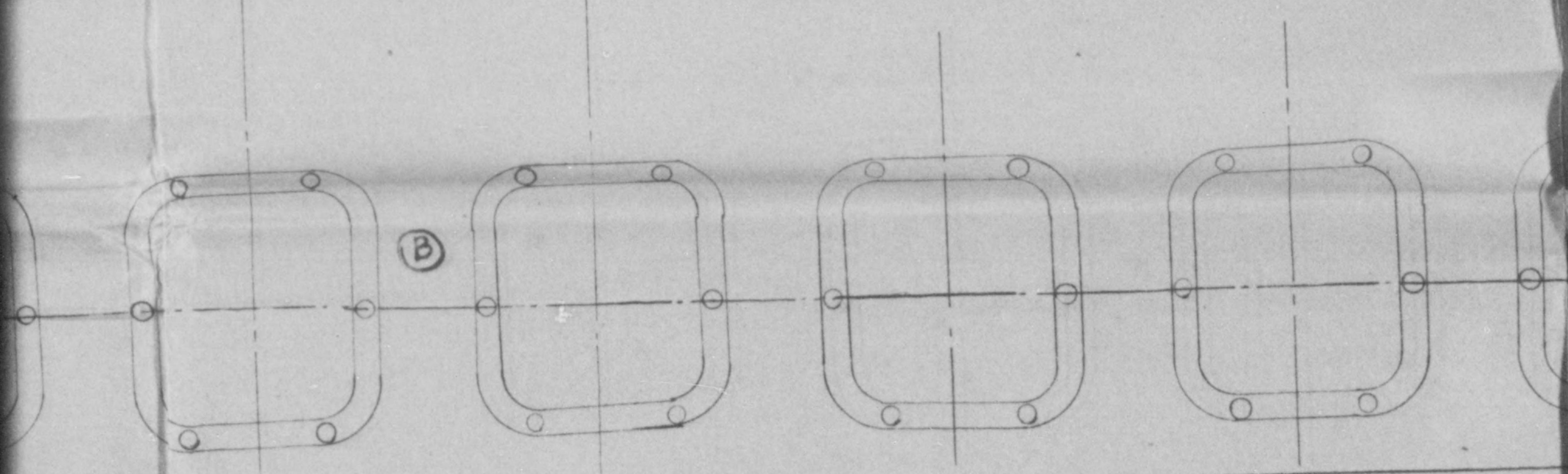
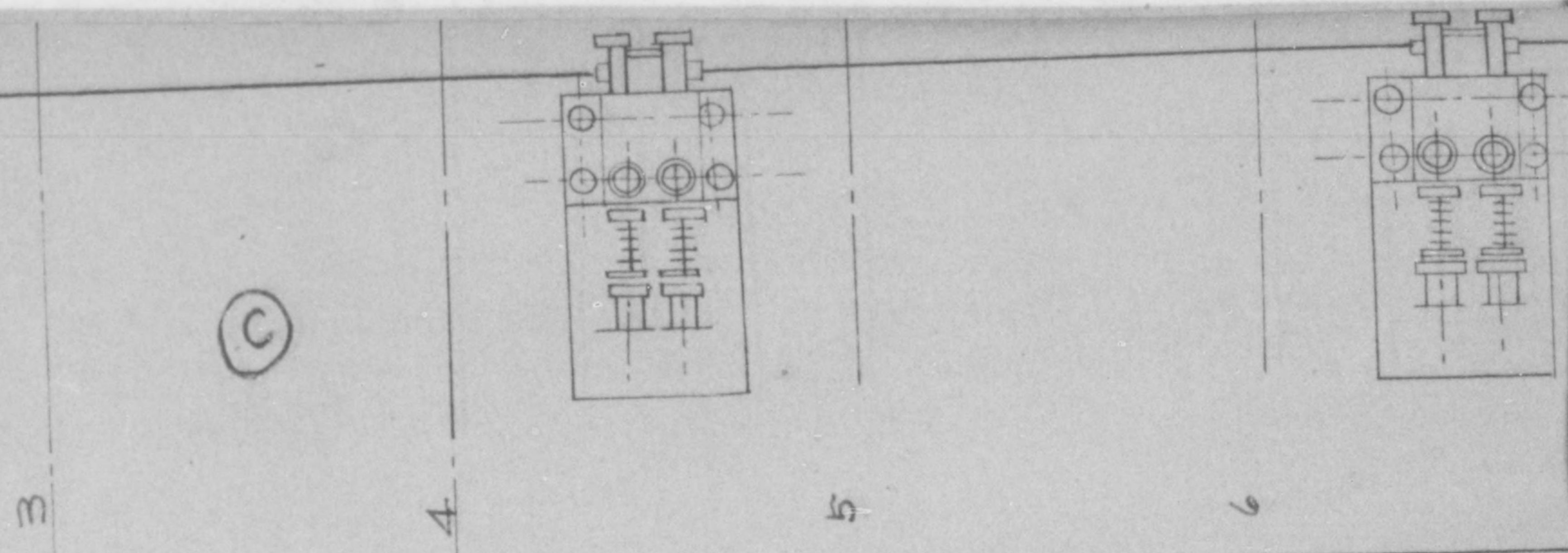


ENGINE Built-upping









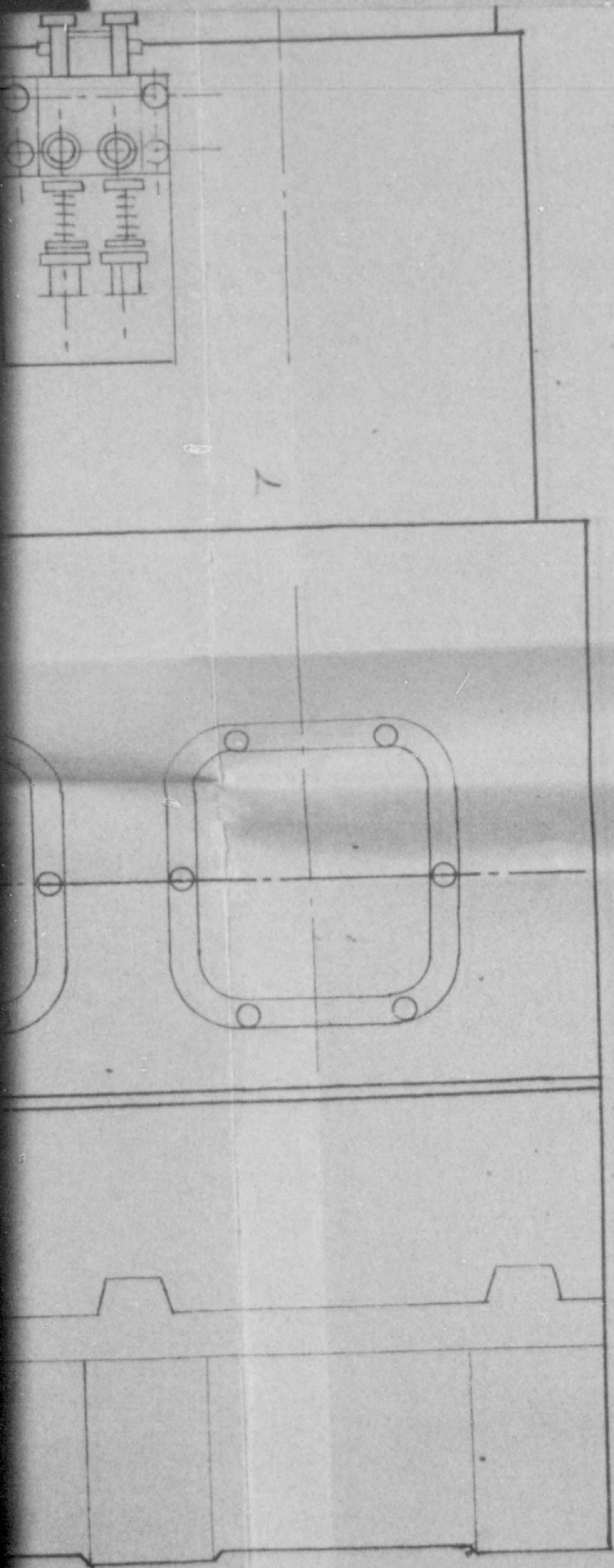
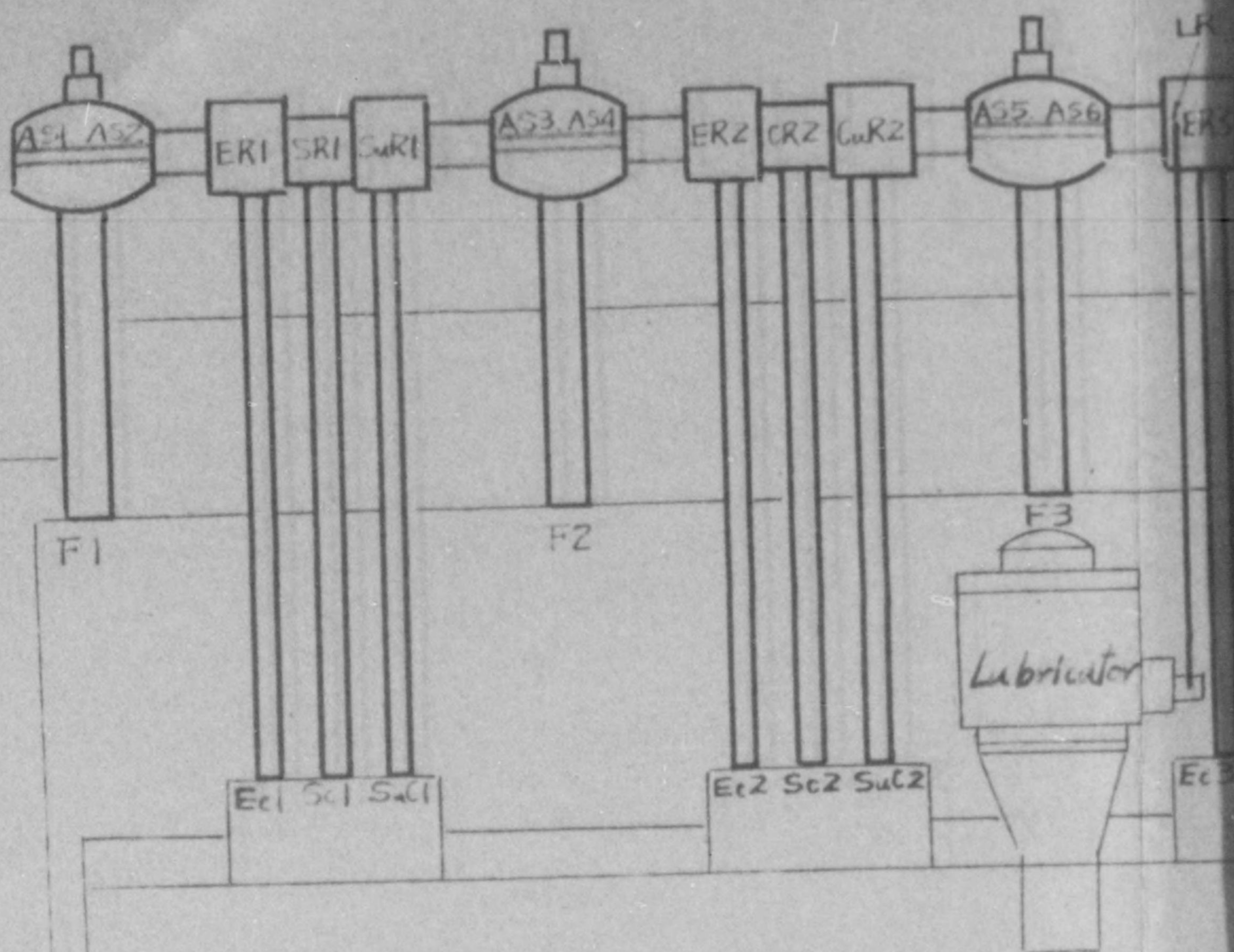
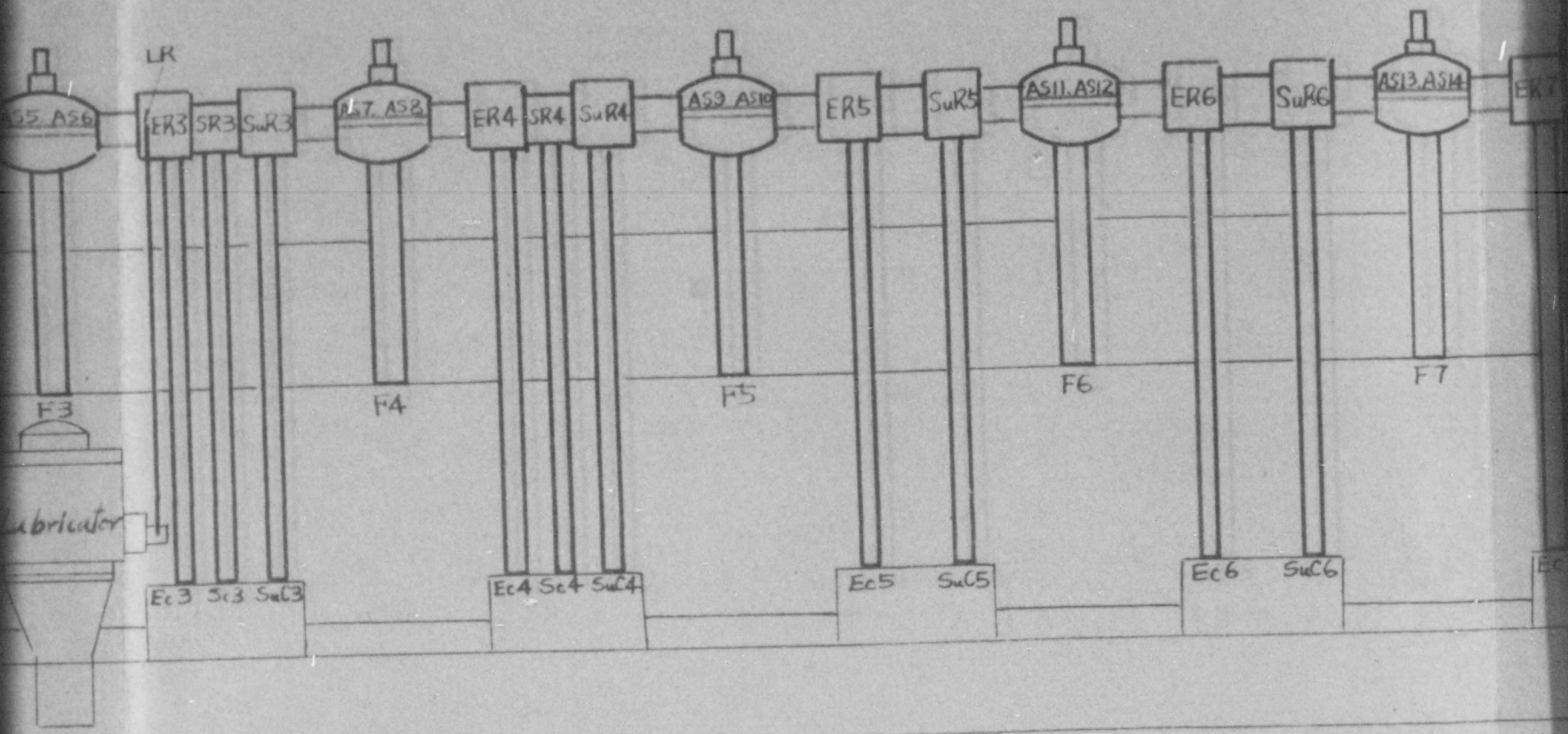


CHART X-2



TENS



TENSION Rod Suction, Exhaust and Starting Rod

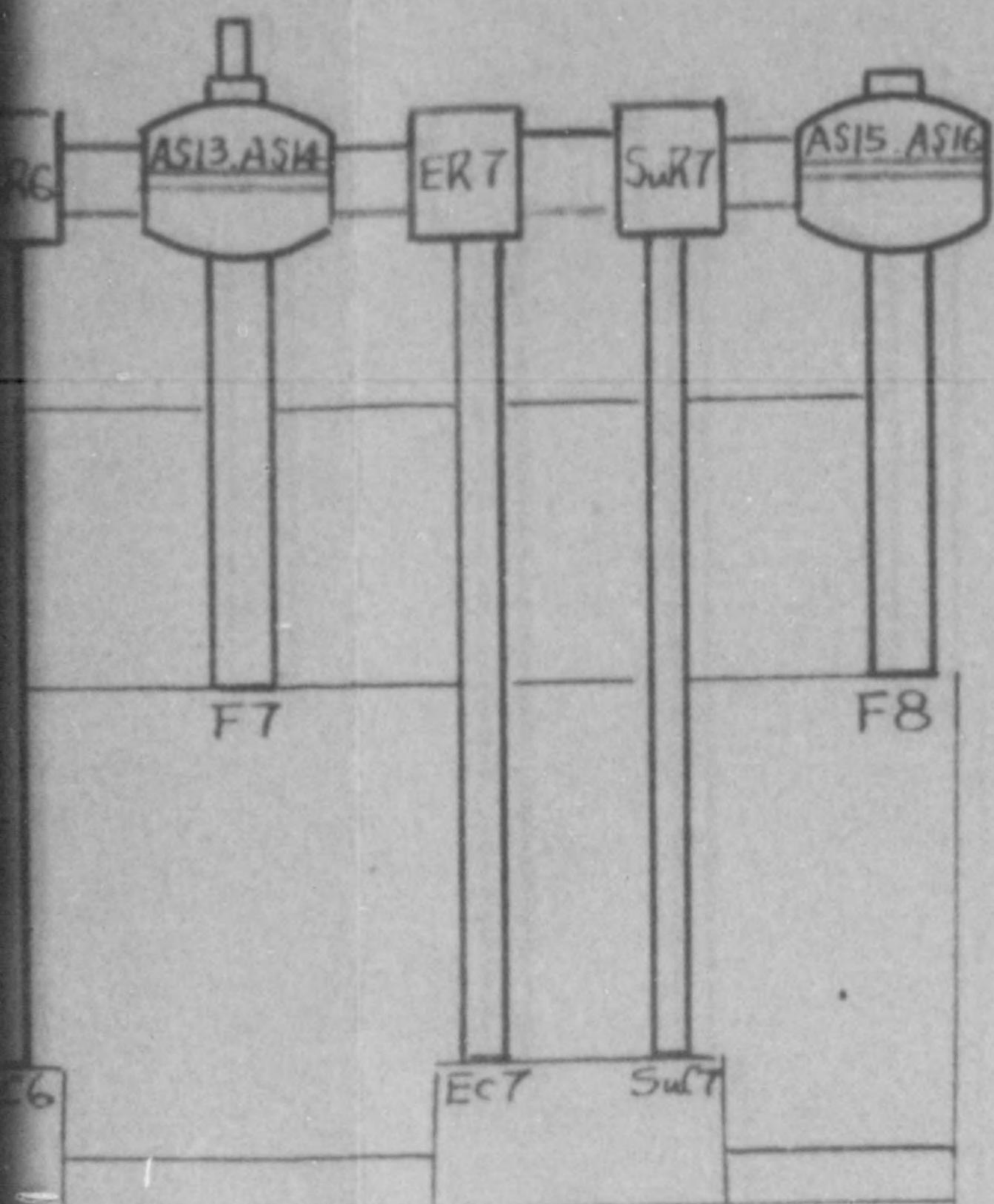
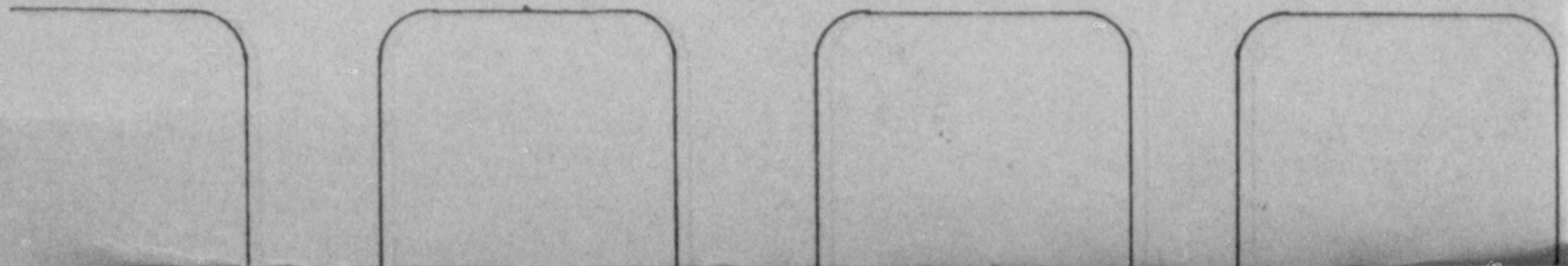
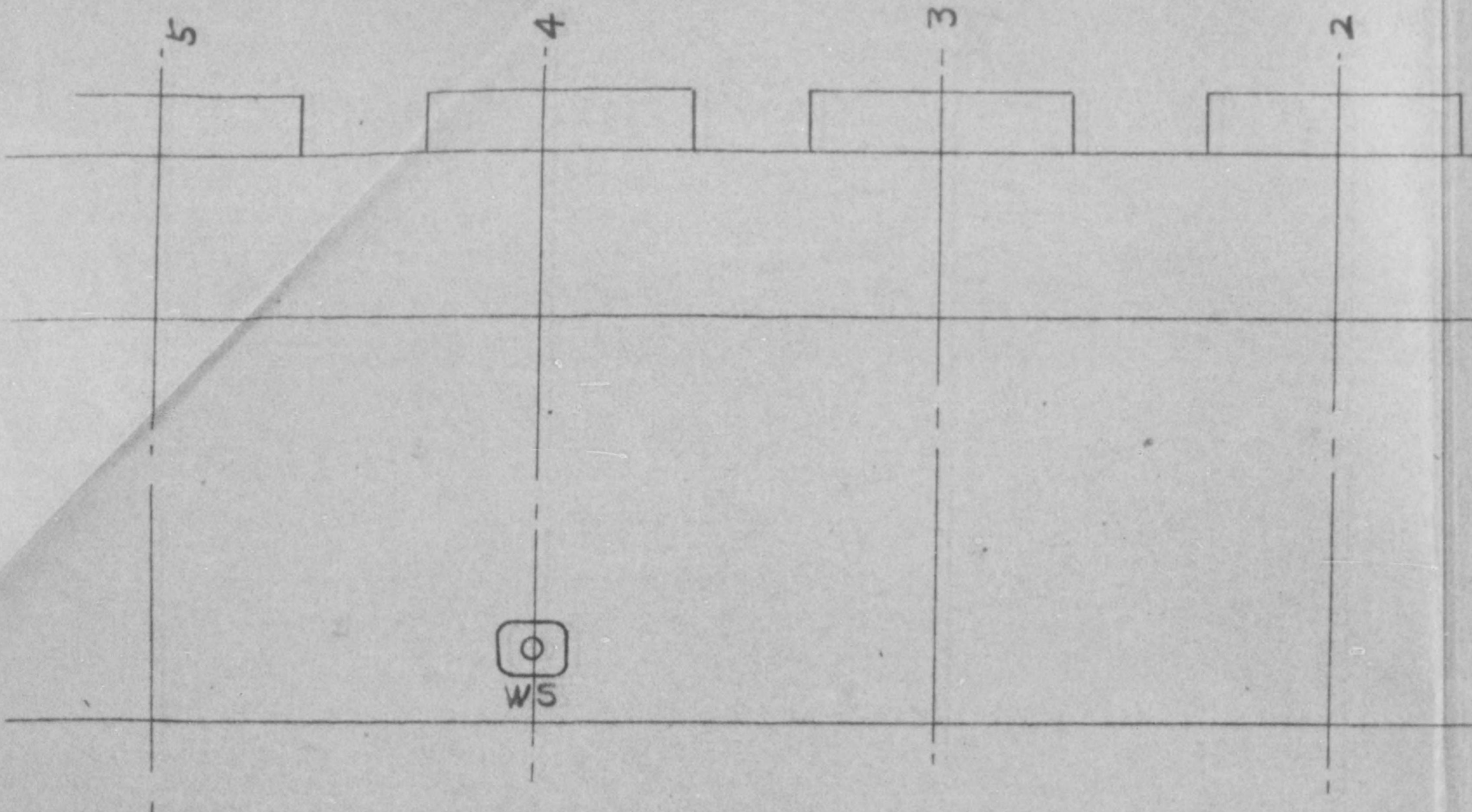


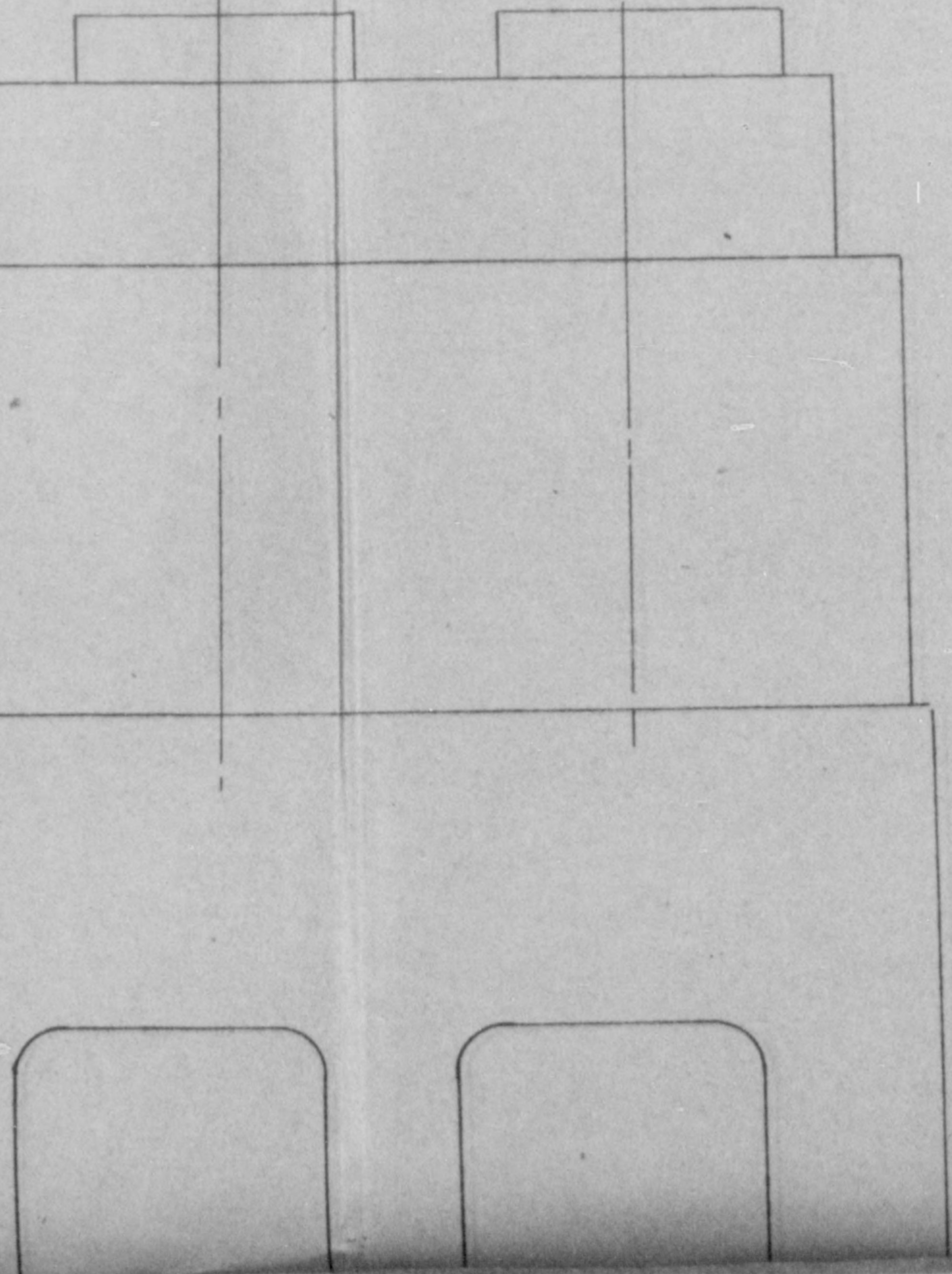
CHART. X-3



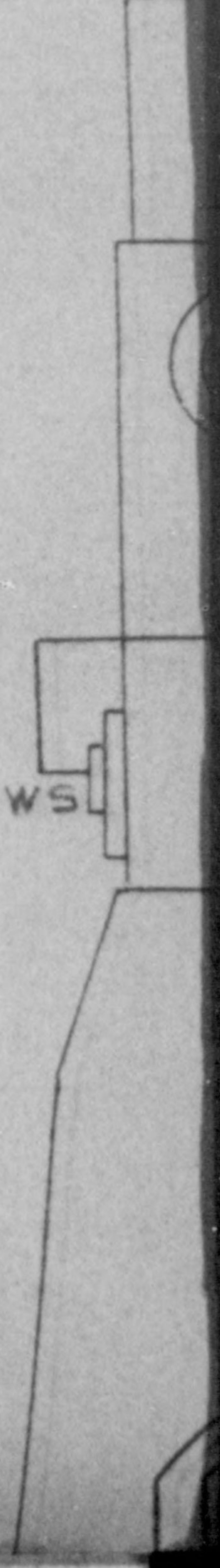
2

1st Cylinder

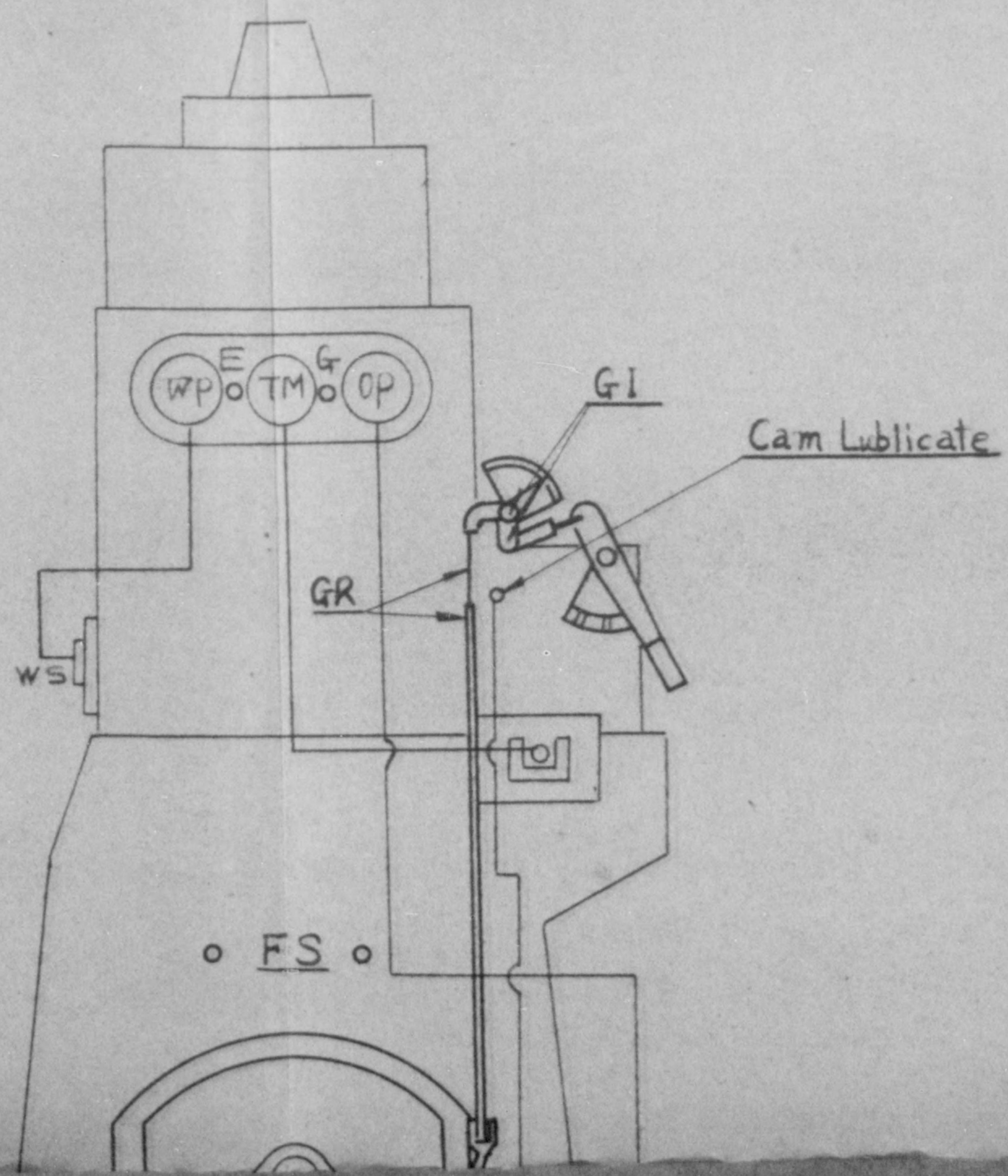
Connect to



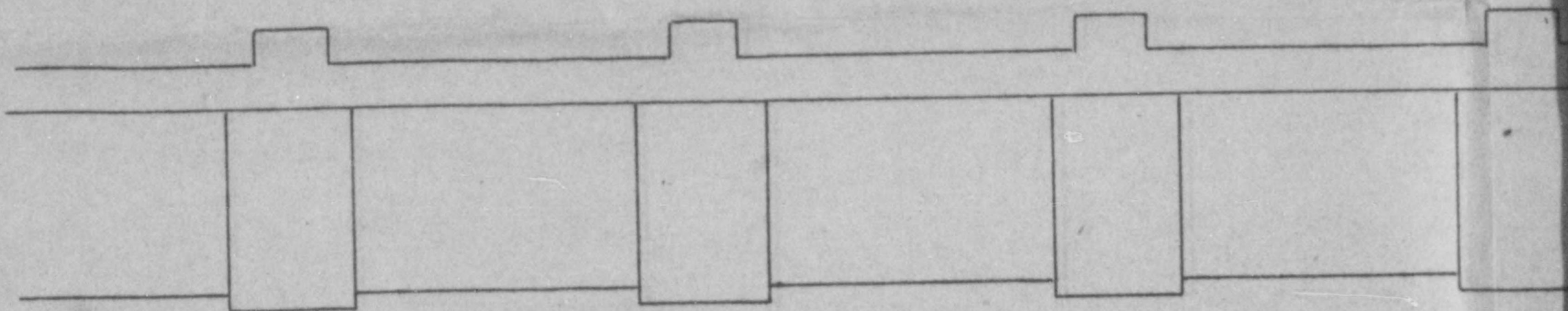
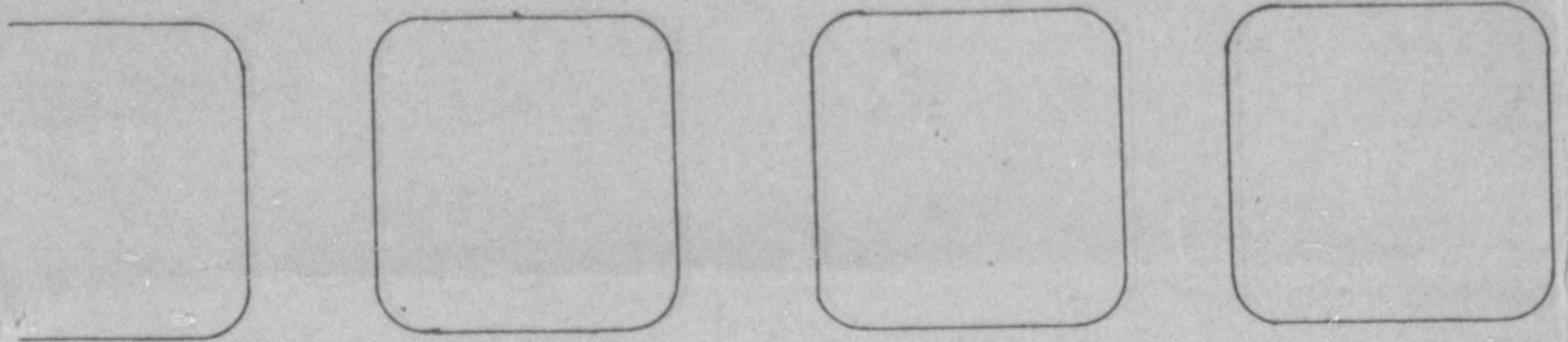
WS

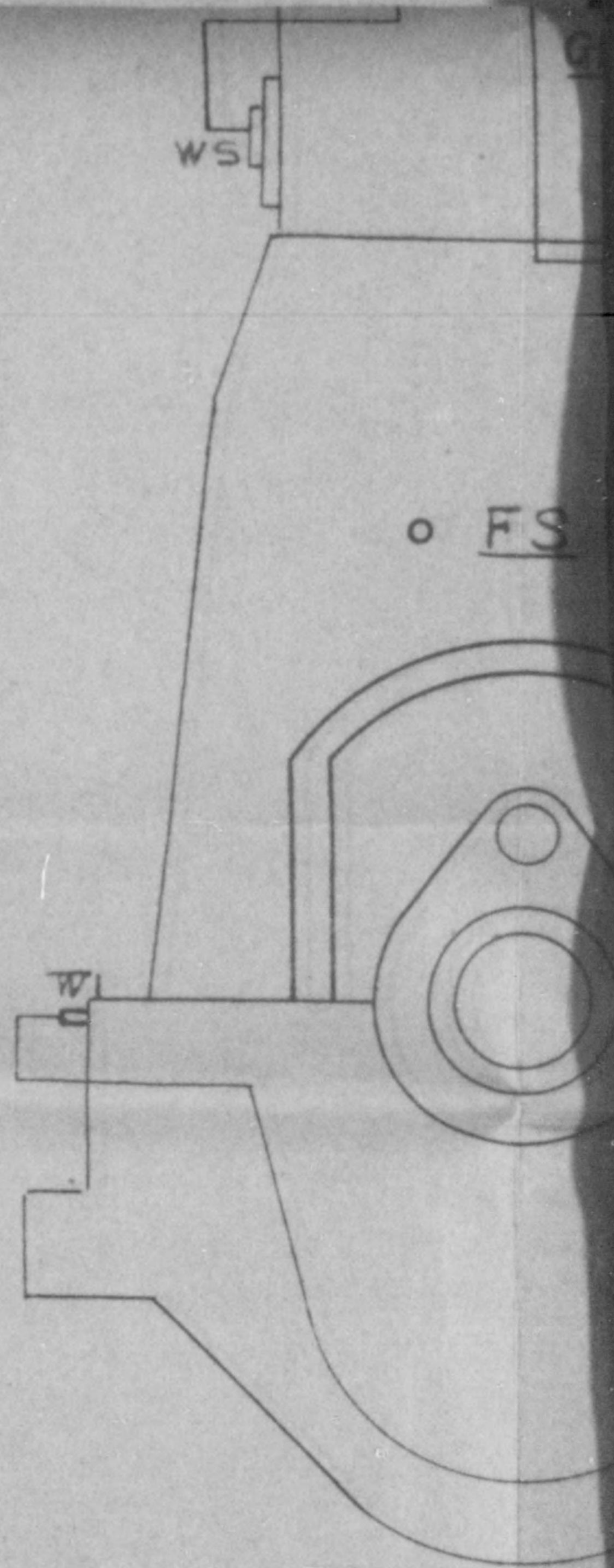
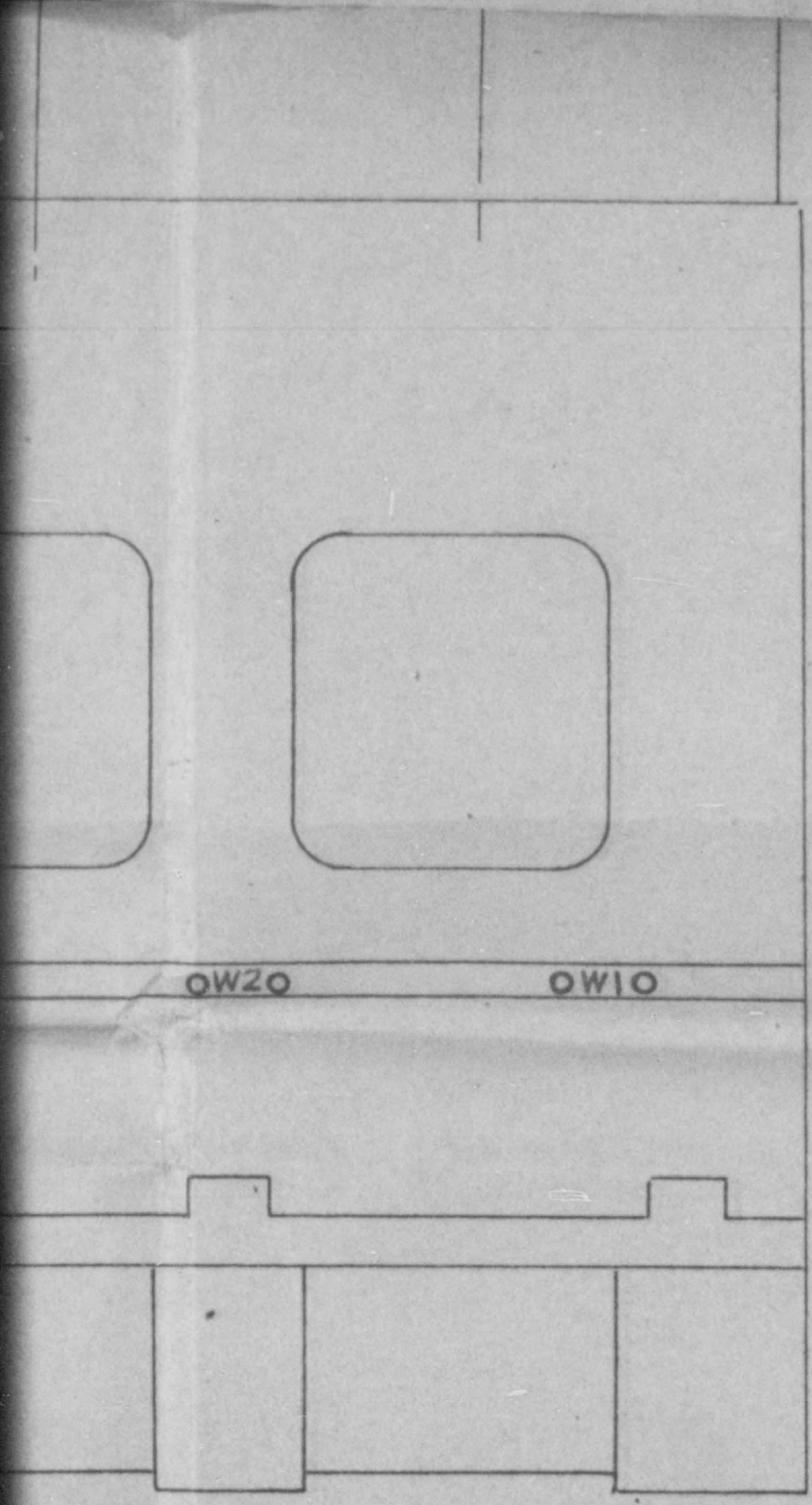


Connect to Governor & Gauge

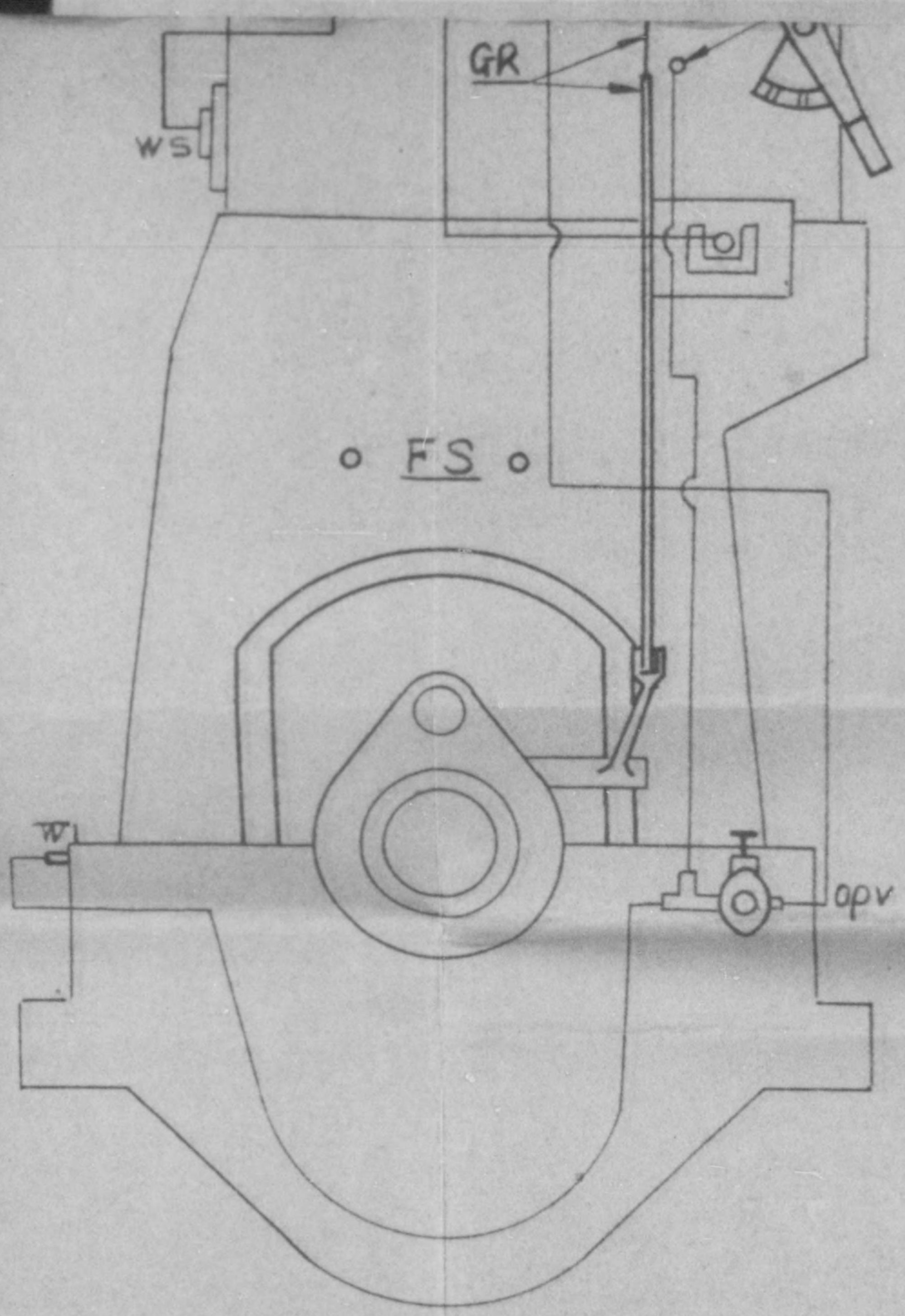


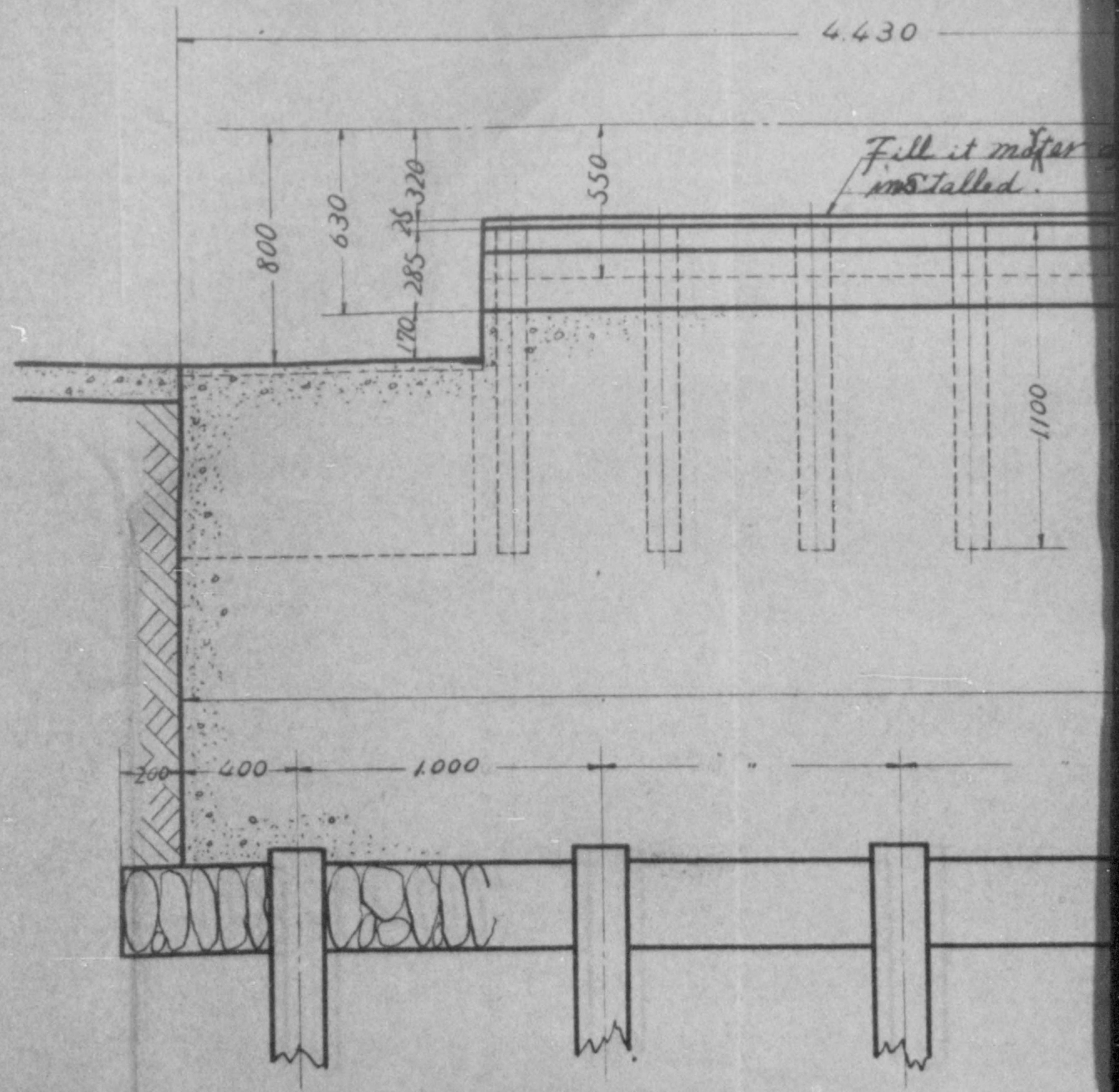
WS

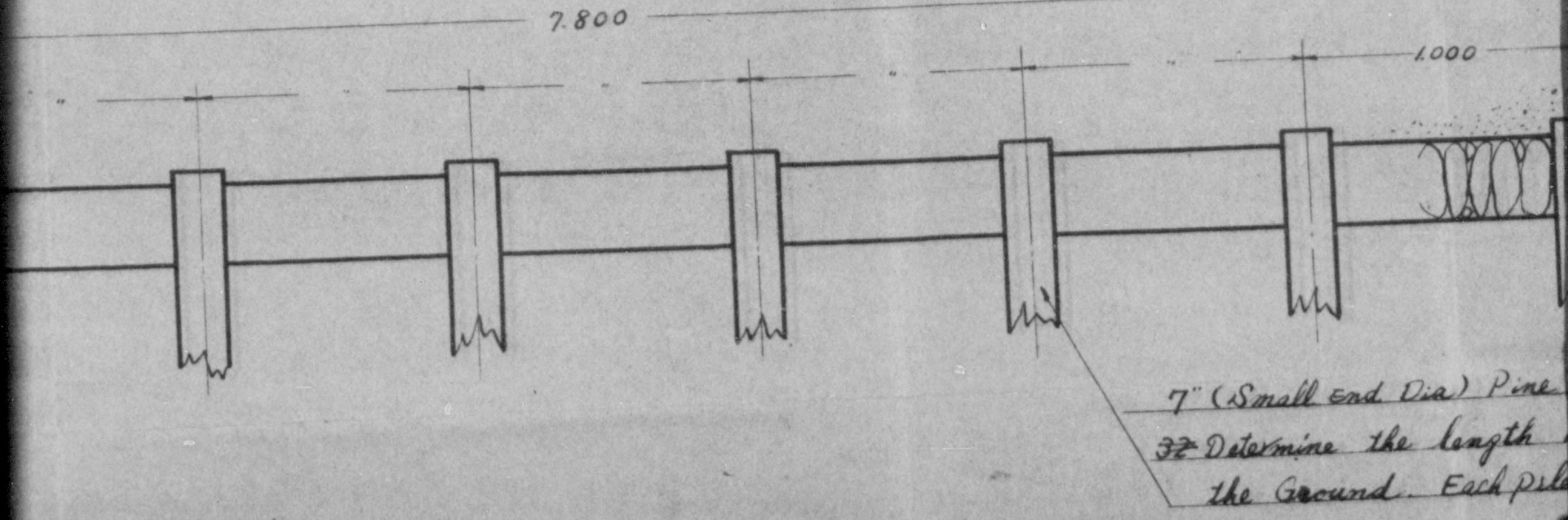
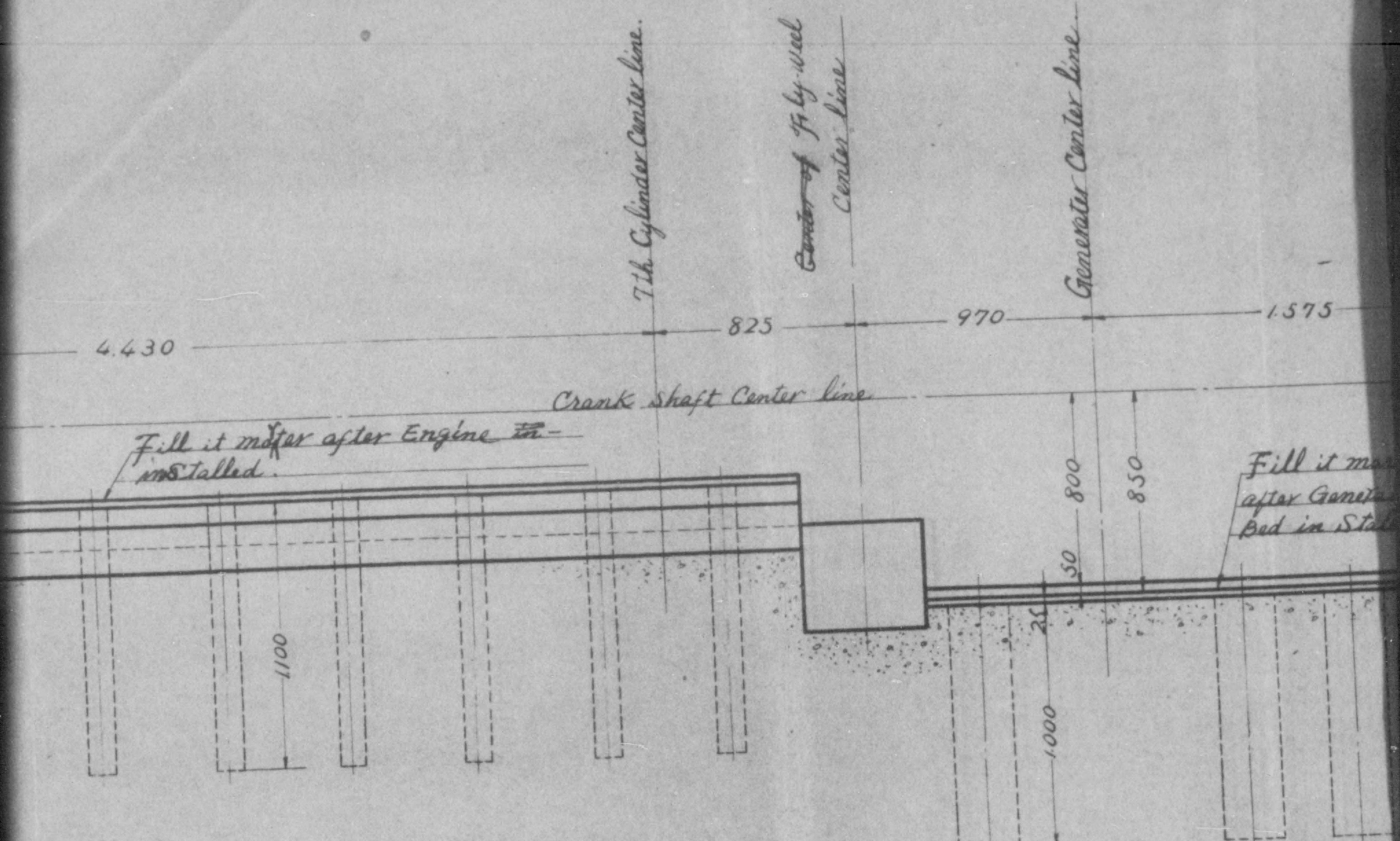




W1 Lubricating Oil Hand pump
W2 Cooling Water Hand pump





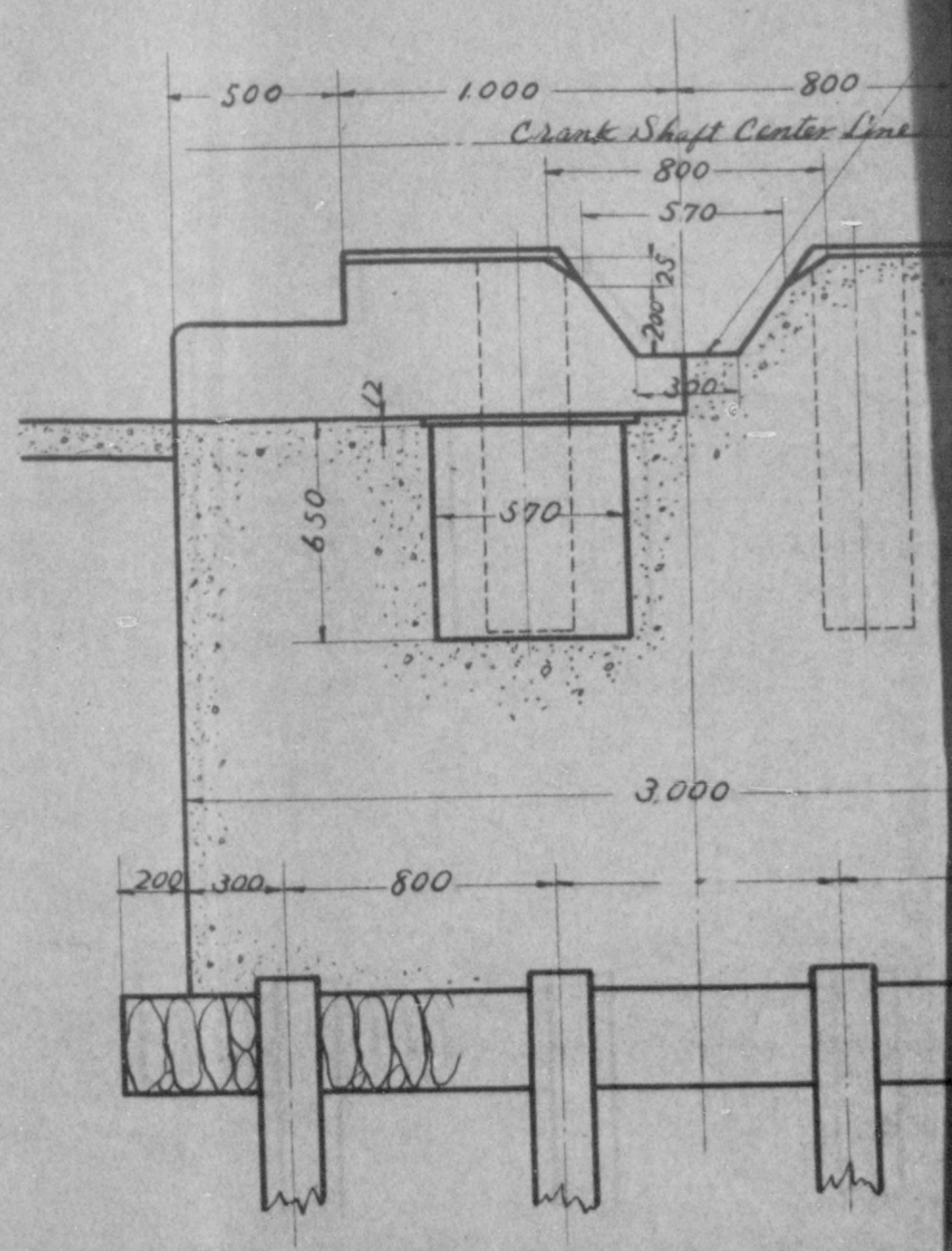
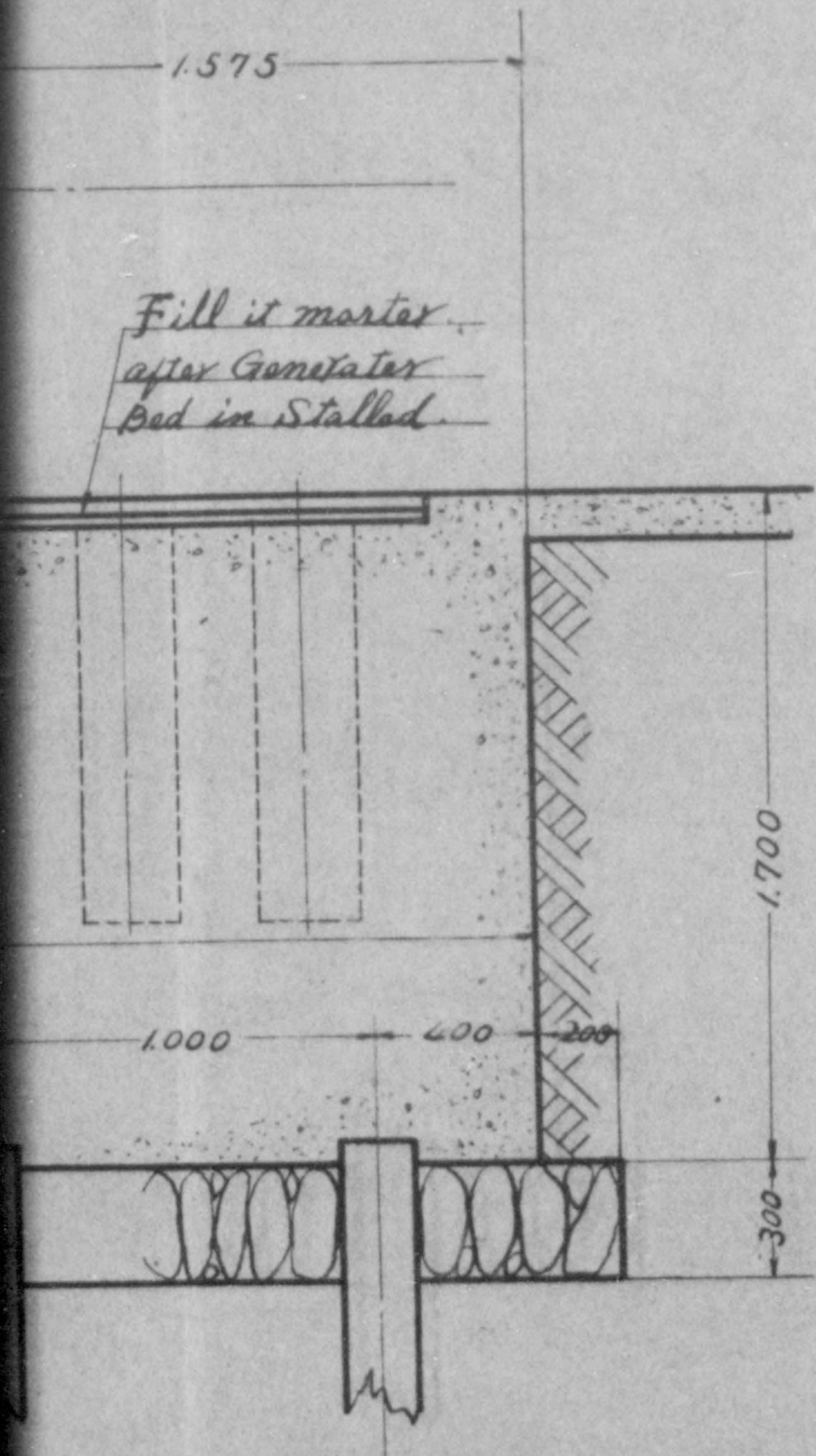


(B)

STAB Type DE

Foundation (Right)

Left is Symmetric to this Drawing



*End Dia) Pine Tree. 32 Piles
the length according to
end. Each pile supports 375.*

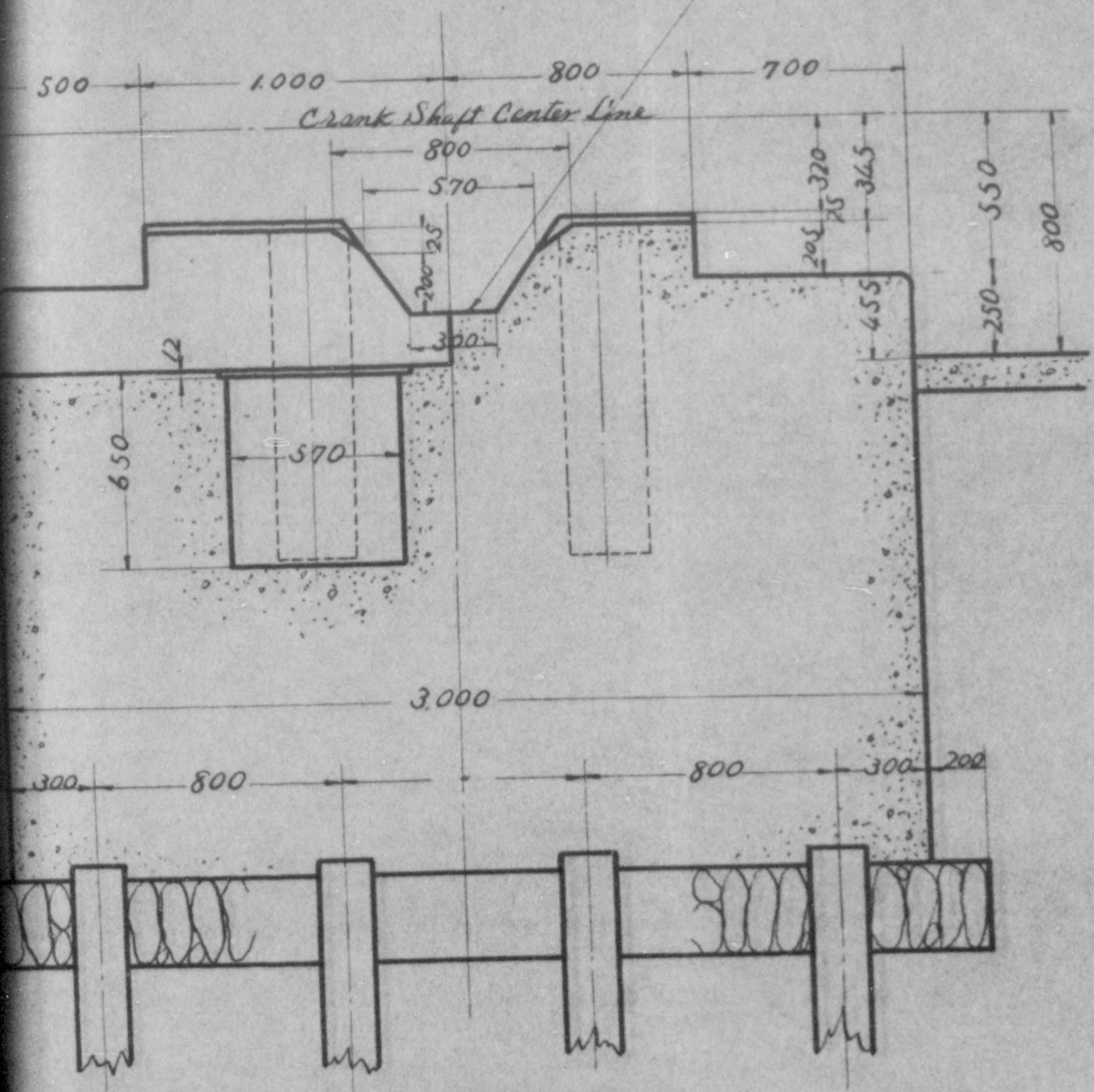
(A-A) Section

STAB Type DE

Foundation (Right)

Left is Symmetric to this Drawing

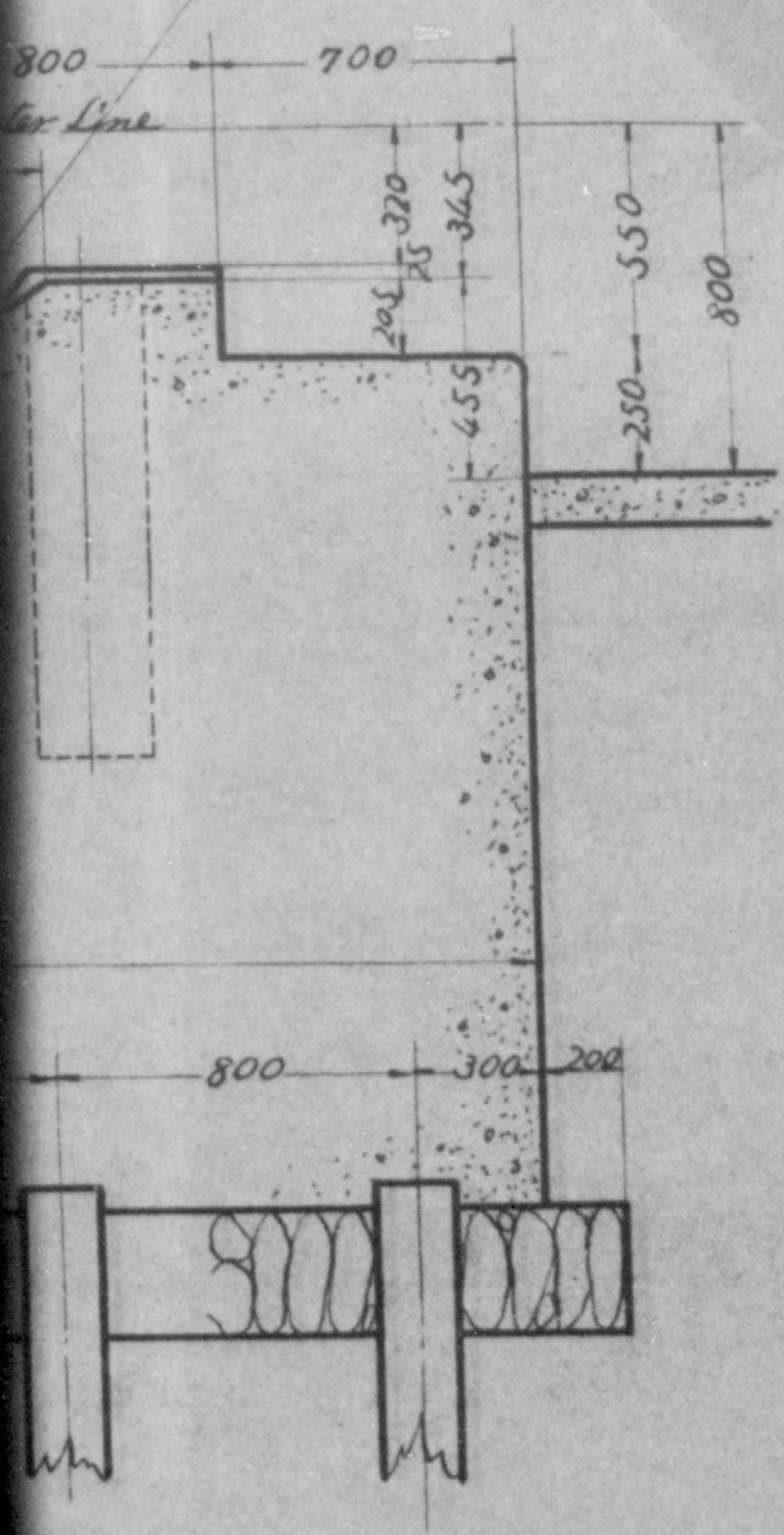
Caution: Do not flow water in to the Engine Bed.



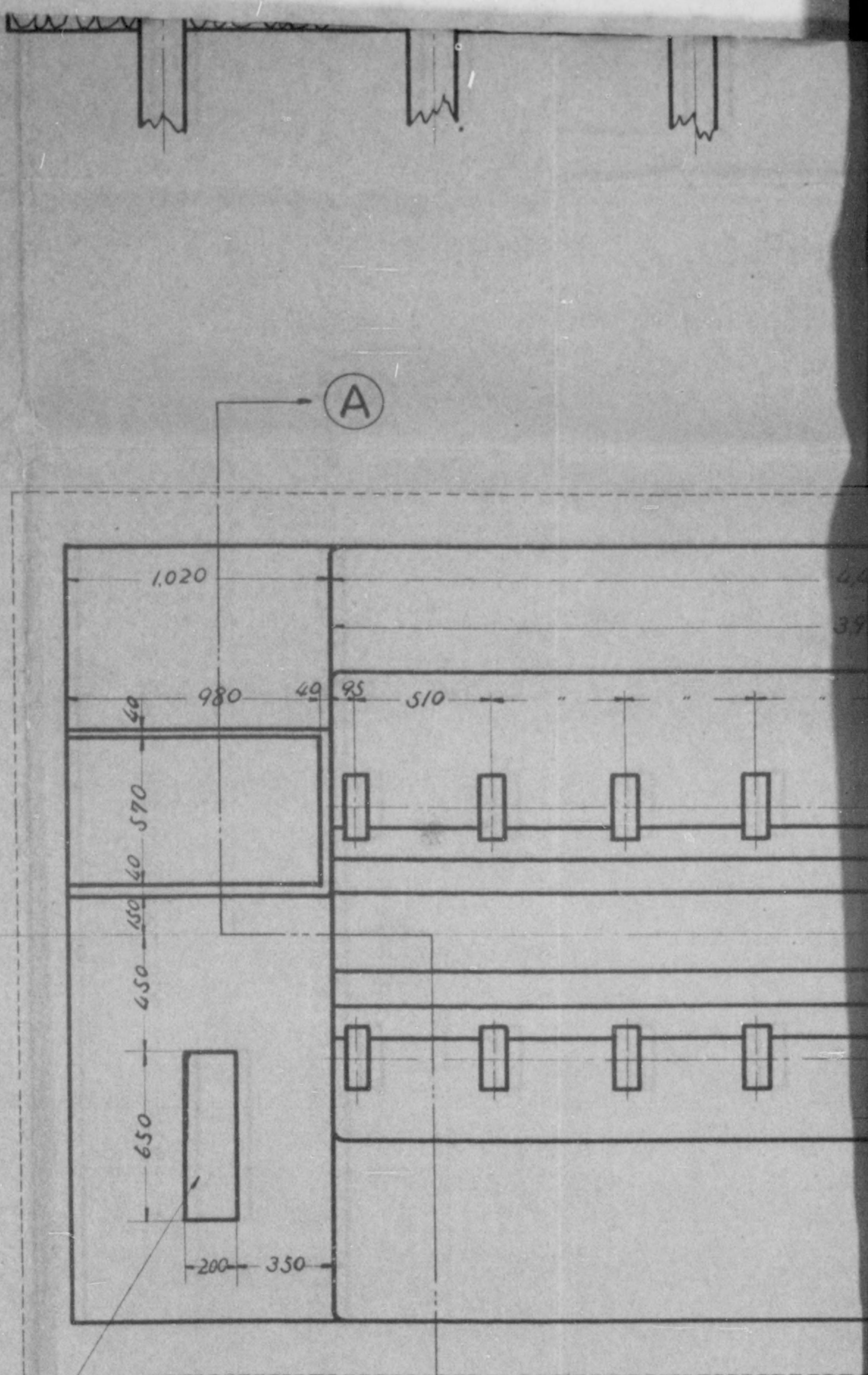
Ⓐ-Ⓐ Section

t)
his Drawing

Caution: Do not flow mofax
in to the Engine Bed.

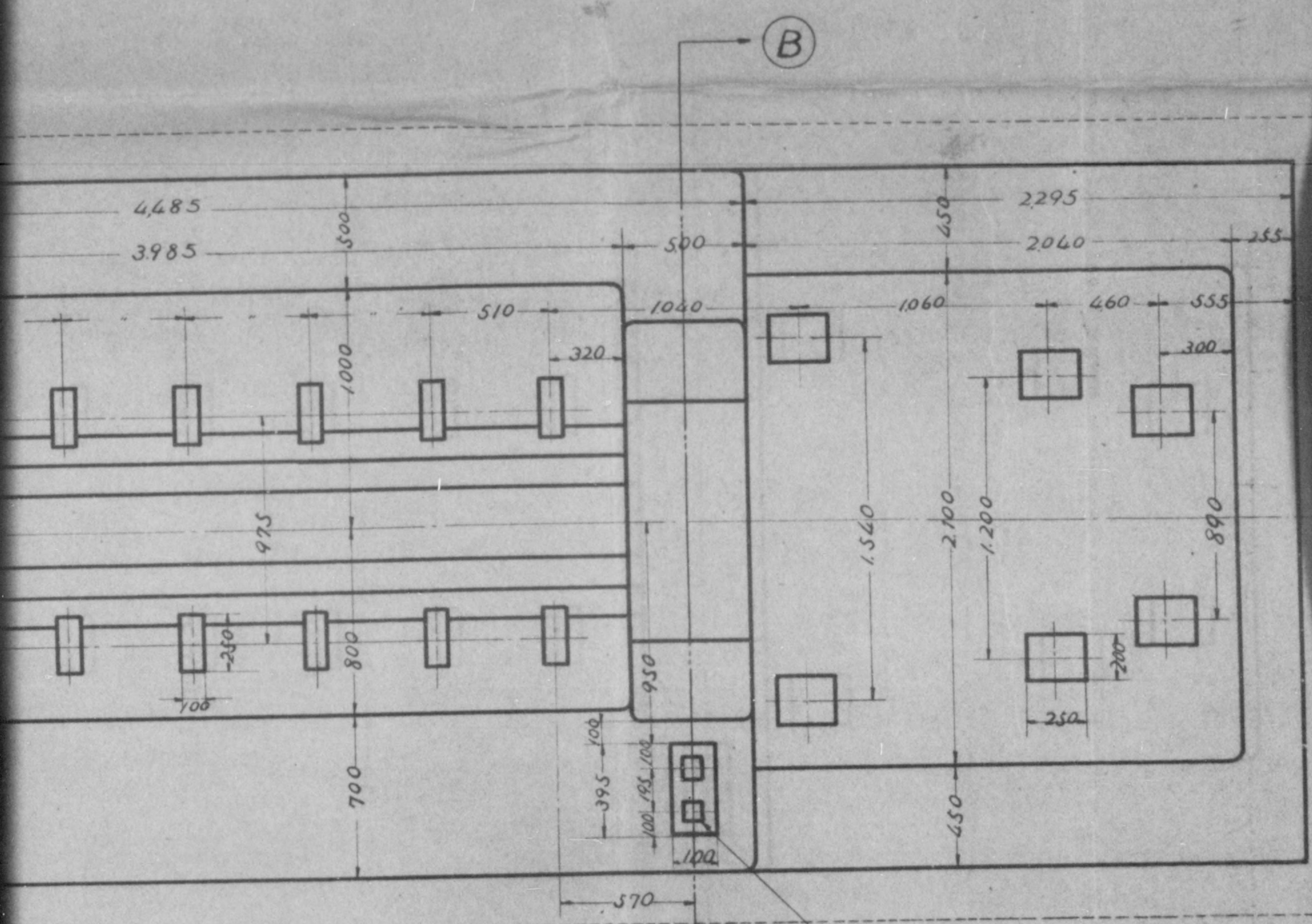


on



*Engine Stops.
Concrete height 220
Build it after Engine is stalled.*

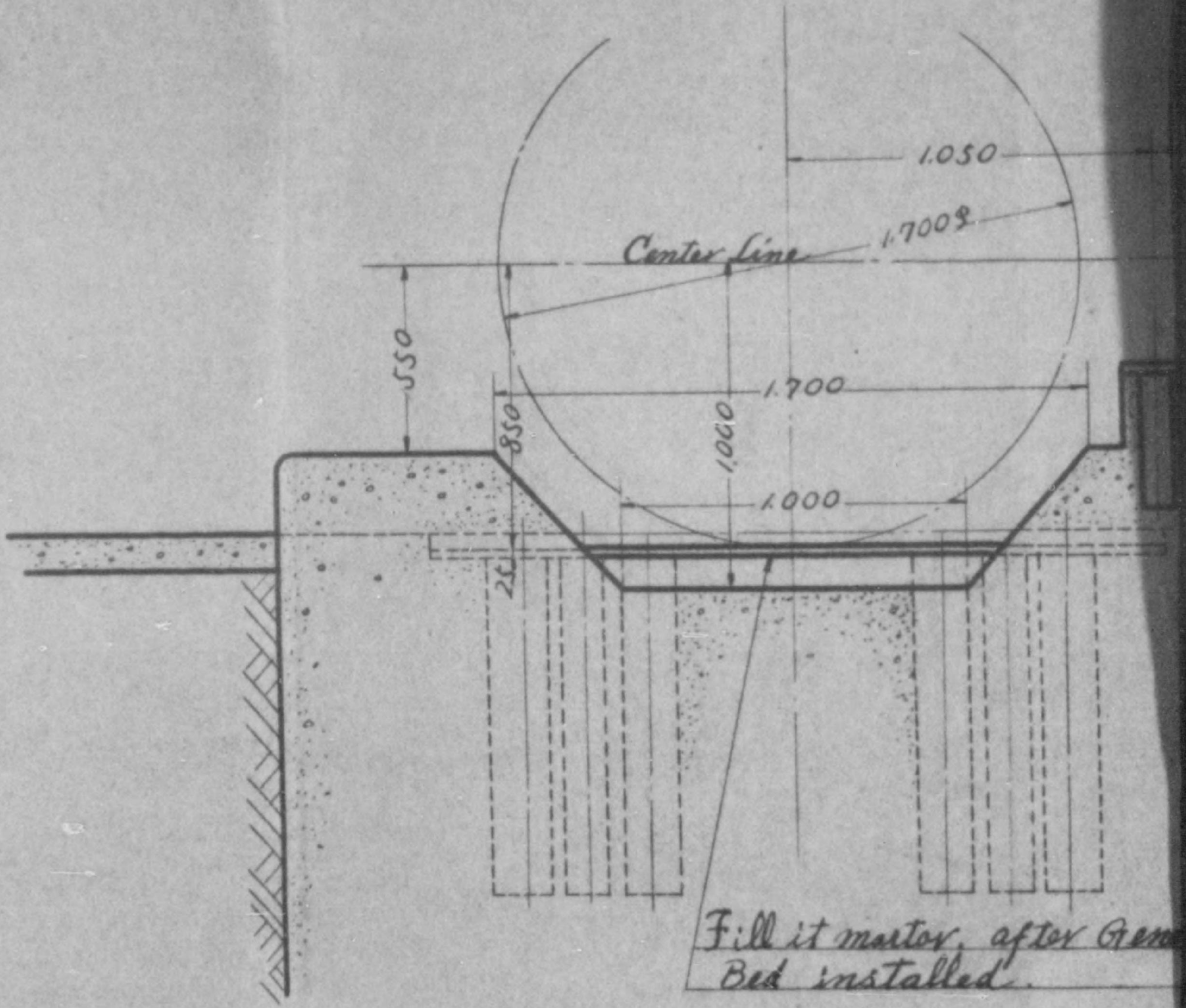
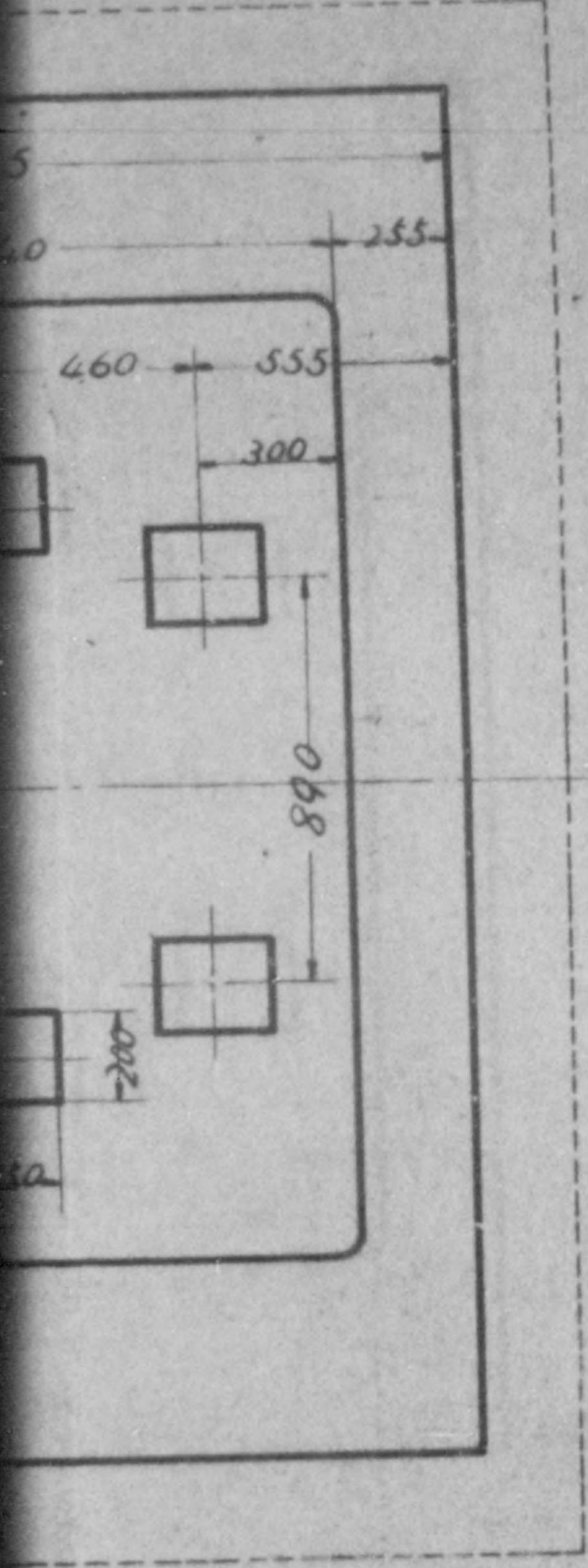
7" (Small End Dia) Pine Tree, 32 P
32 Determine the length according to
the Ground. Each pile Supports 32



100 Sq. 400 Depth.
Foundation of Flywheel turning!

1) Pine Tree, 32 Piles
 length according to
 Each pile supports 37\$.

(A)-(A) Section



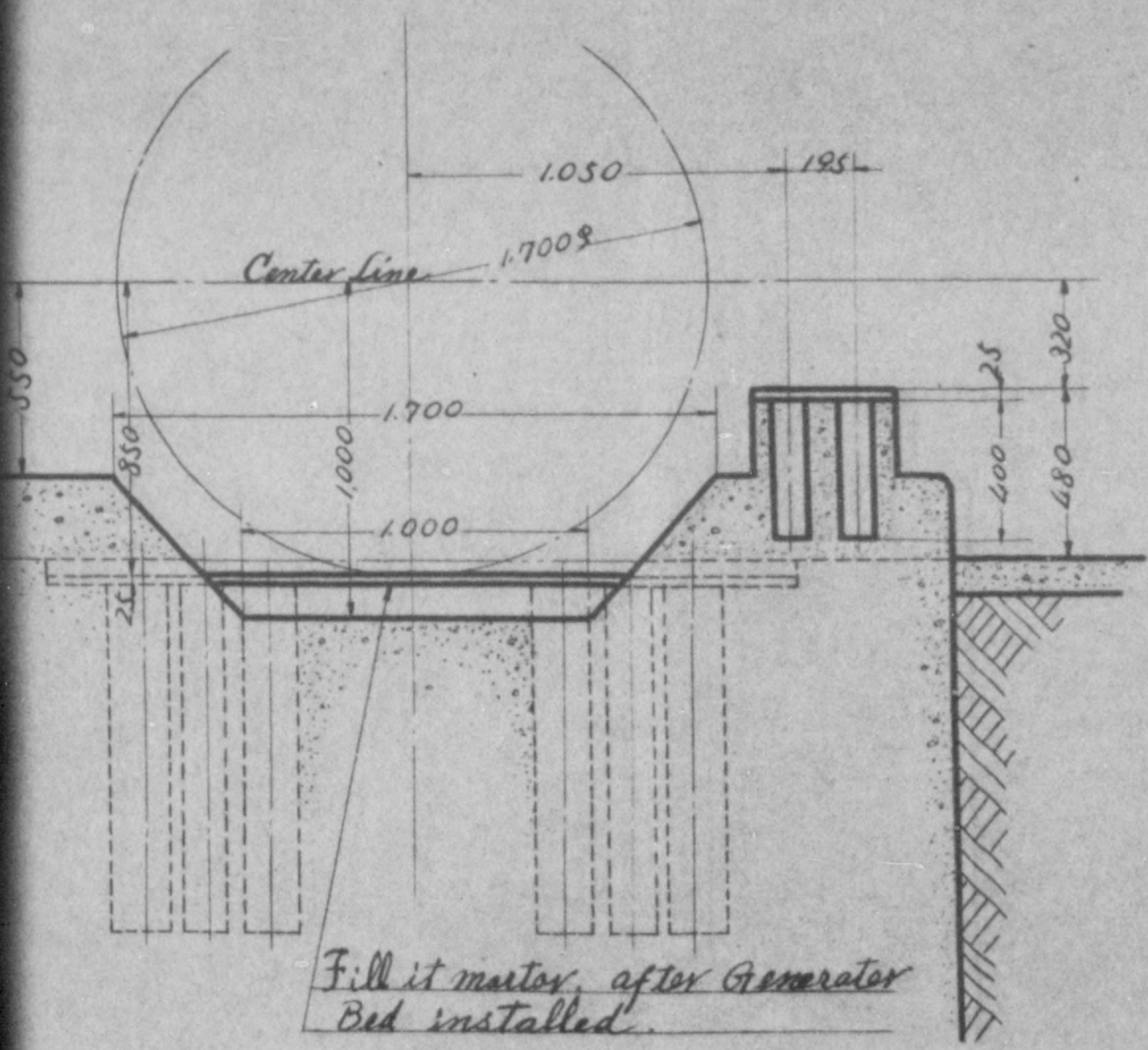
Fill it mortar, after Gen
 Bed installed.

th.
 Flywheel turning!

(B)-(B) Section

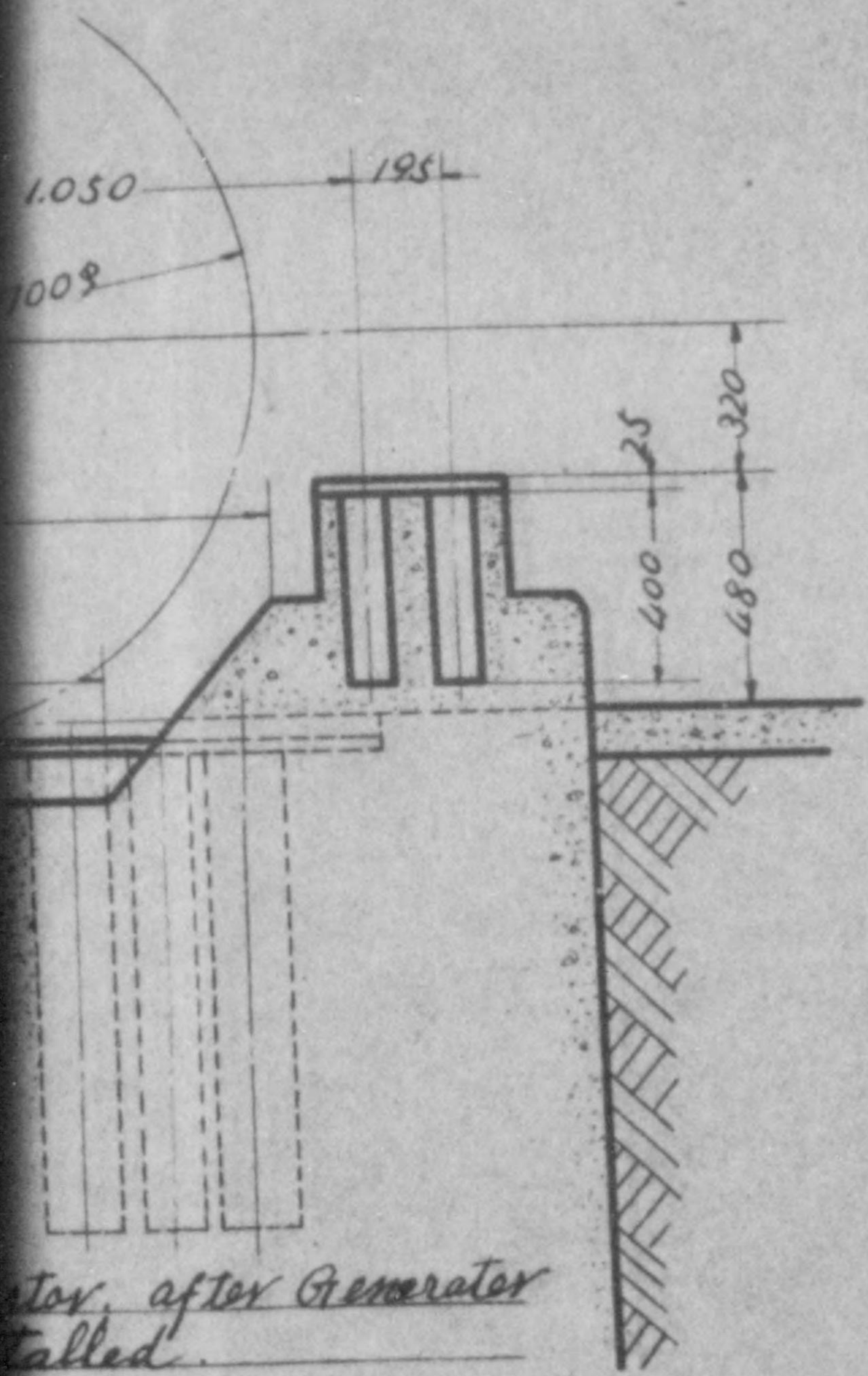
Concrete Volume.	45 m ³
Weight.	95 \$.
Engine & Generator wt	23 \$.
Total	118 \$.

(A)-(A) Section



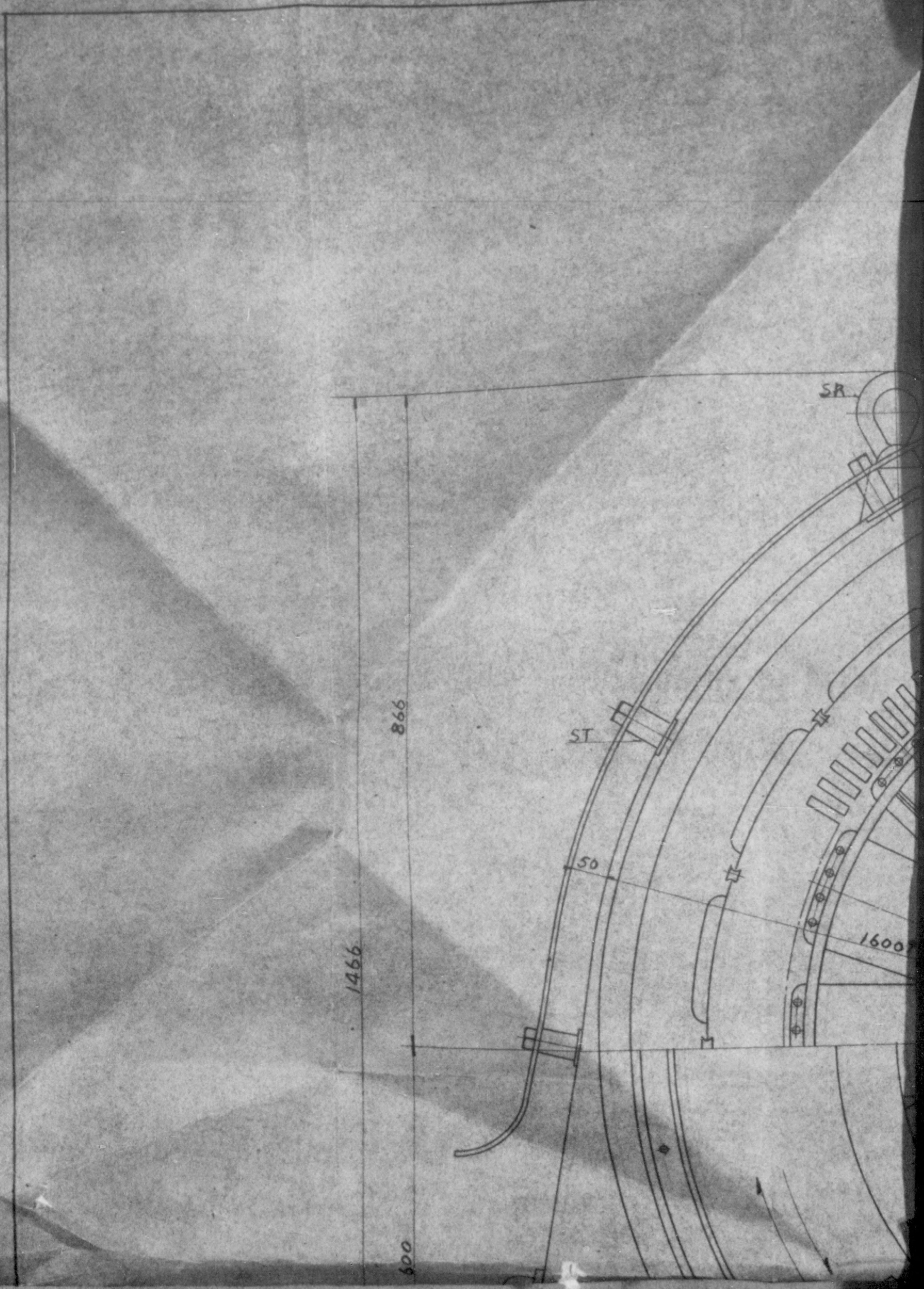
(B)-(B) Section

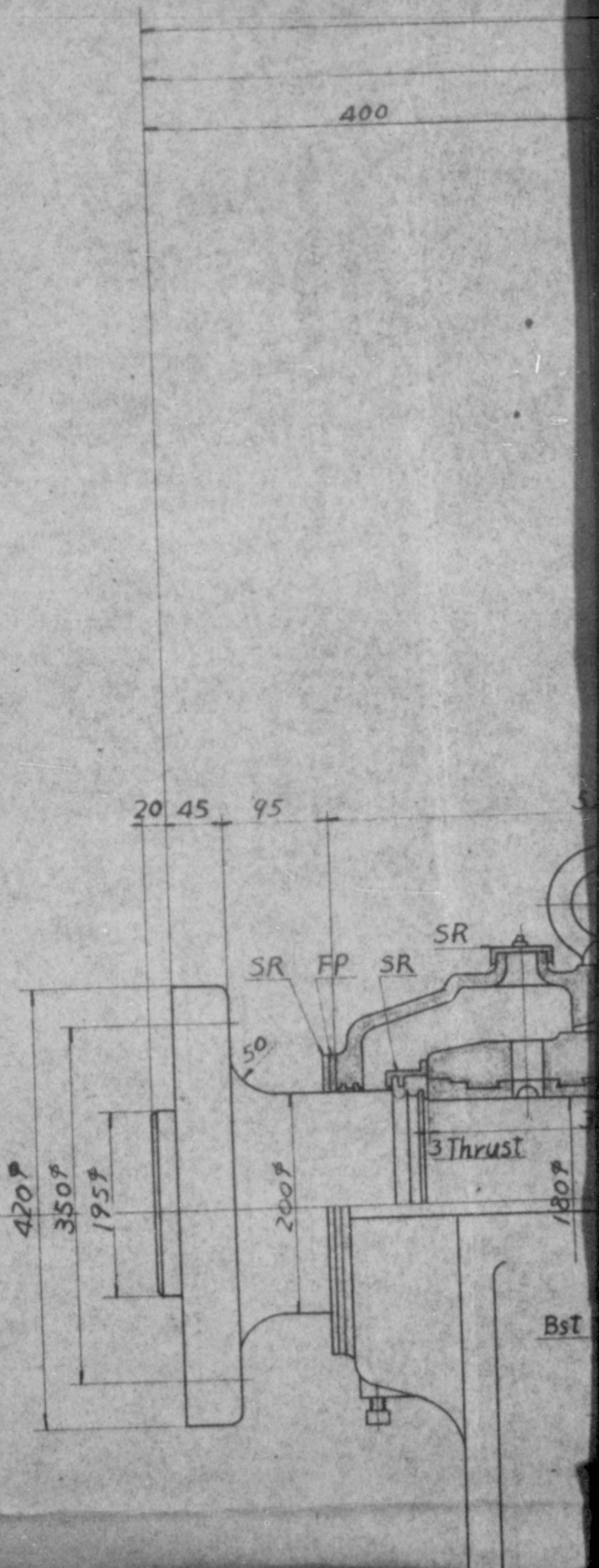
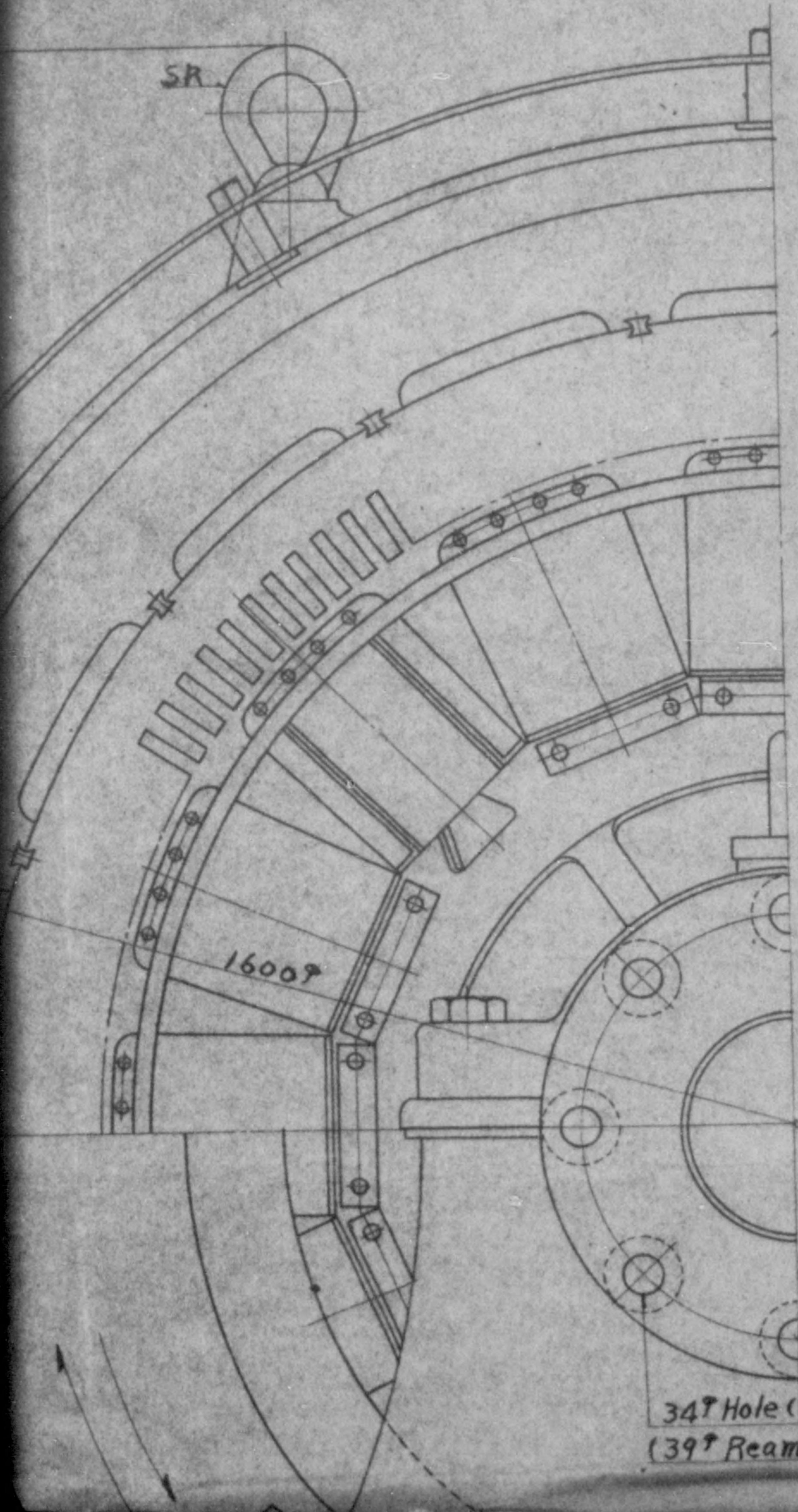
3 Phase A.C. Generator Foundation
Chart IV



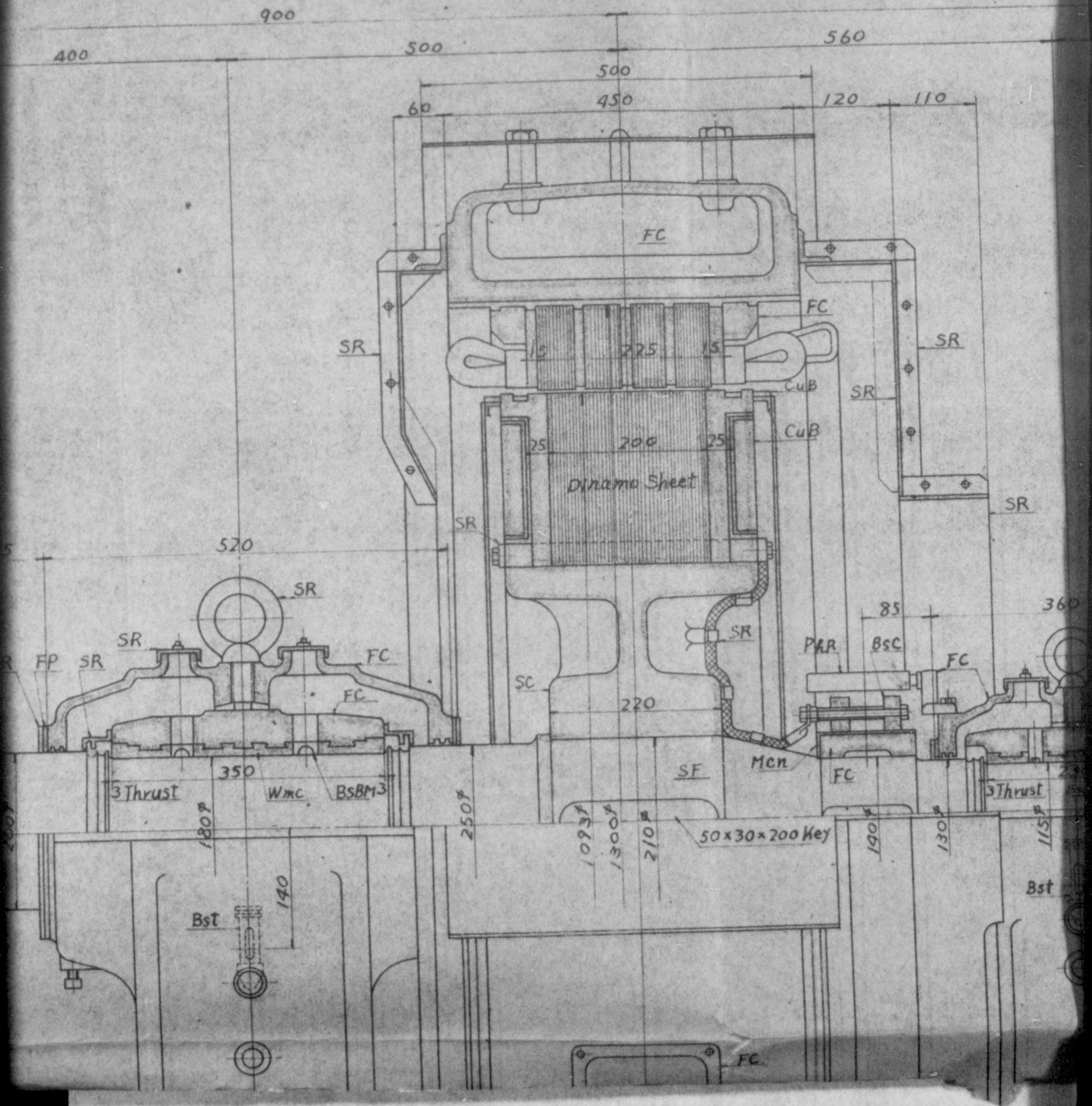
tion

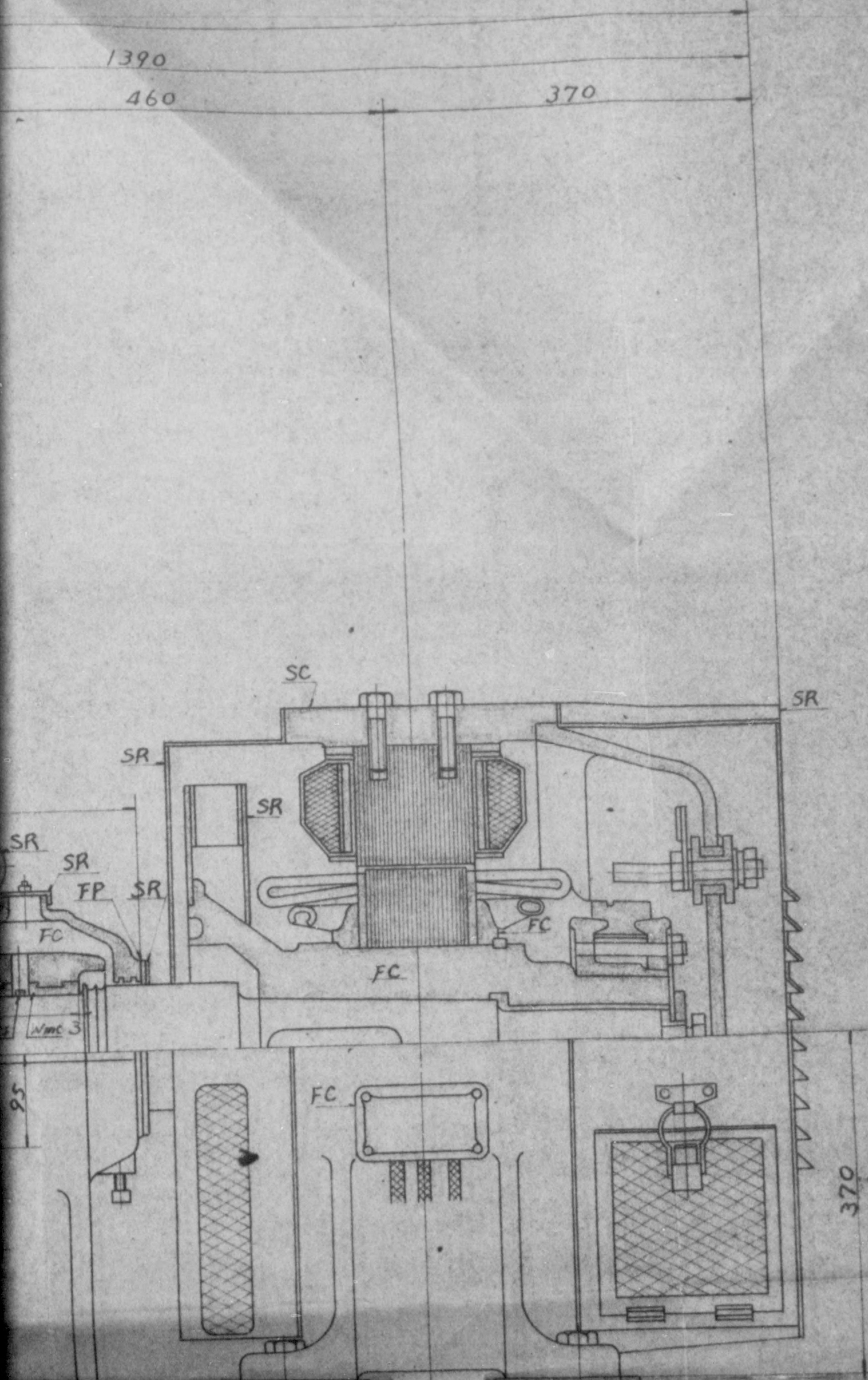
3 Phase A.C. Generator Foundation	
Chart IV	Scale 1:25

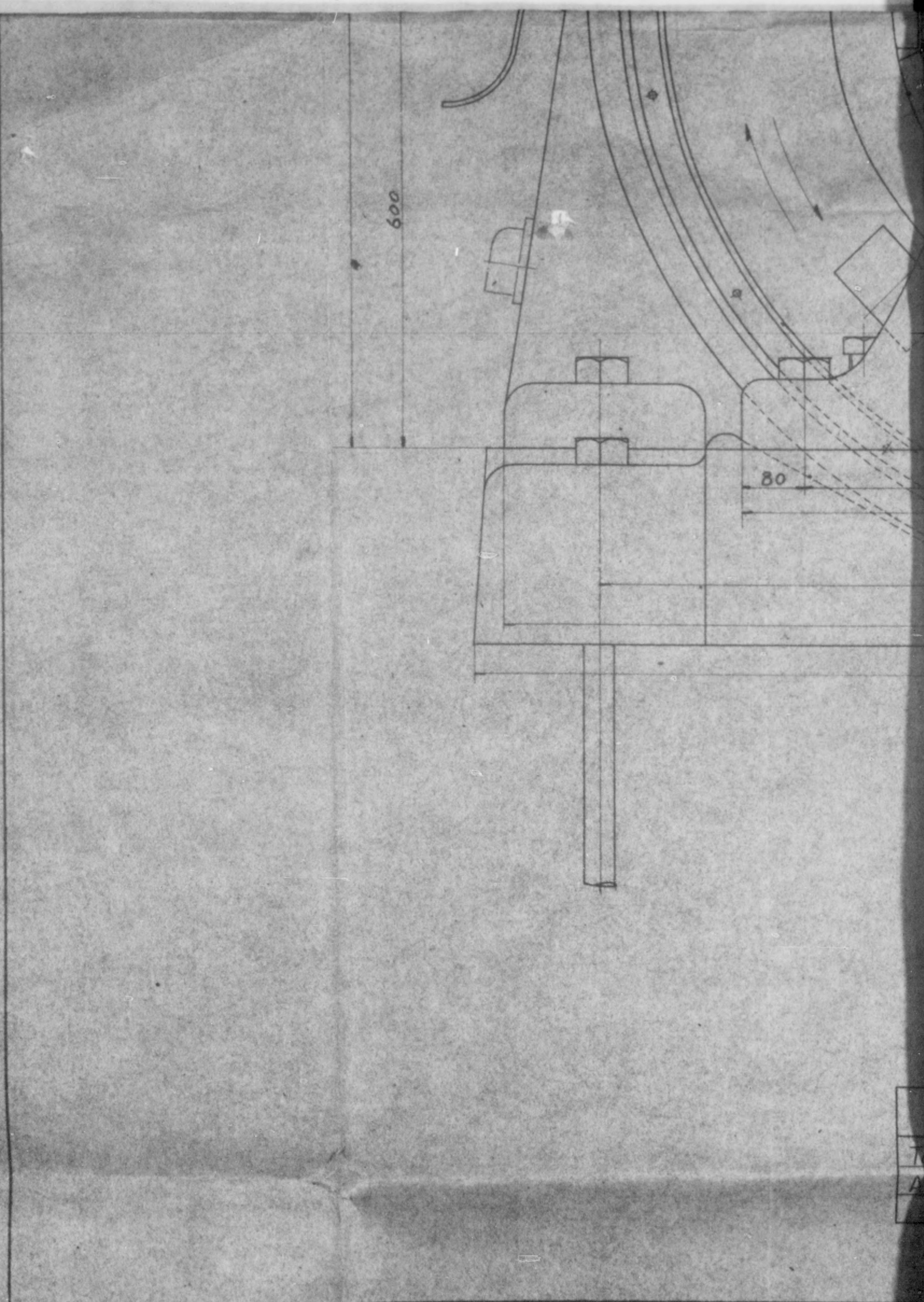




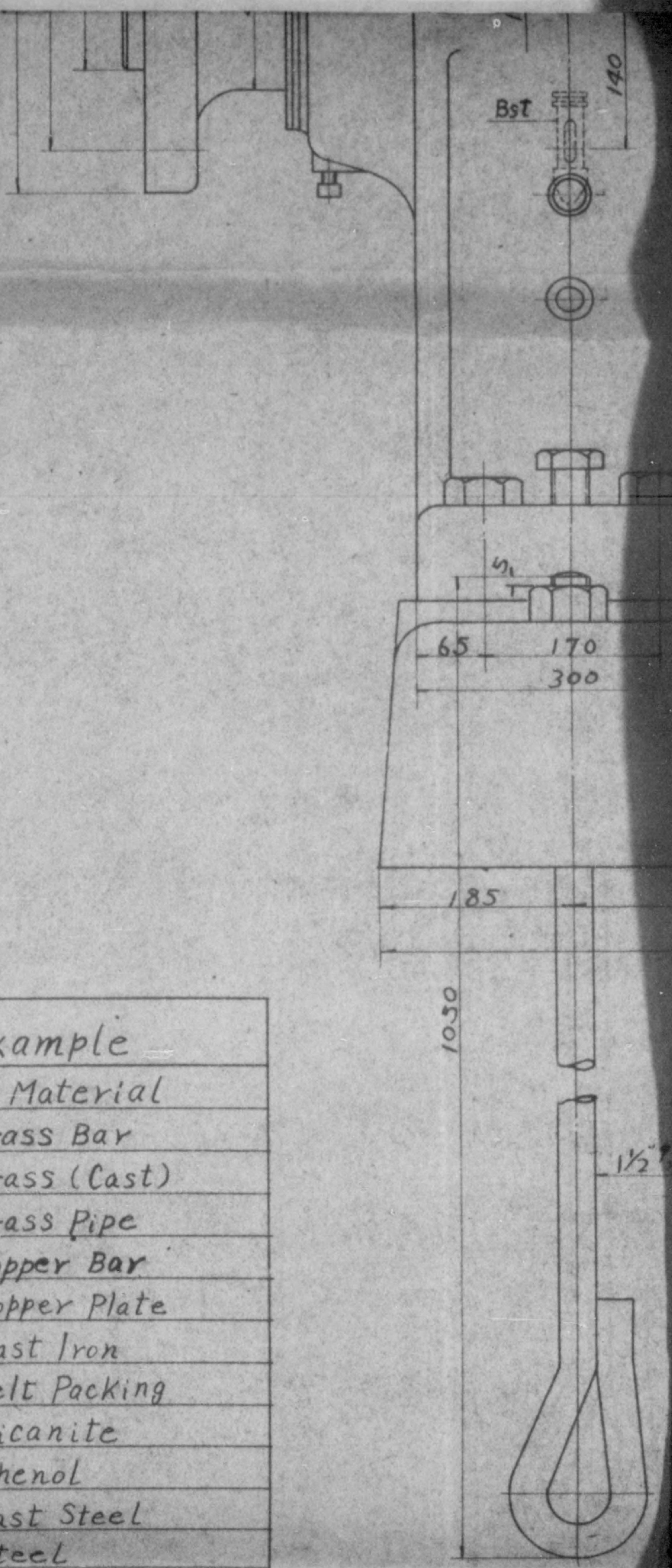
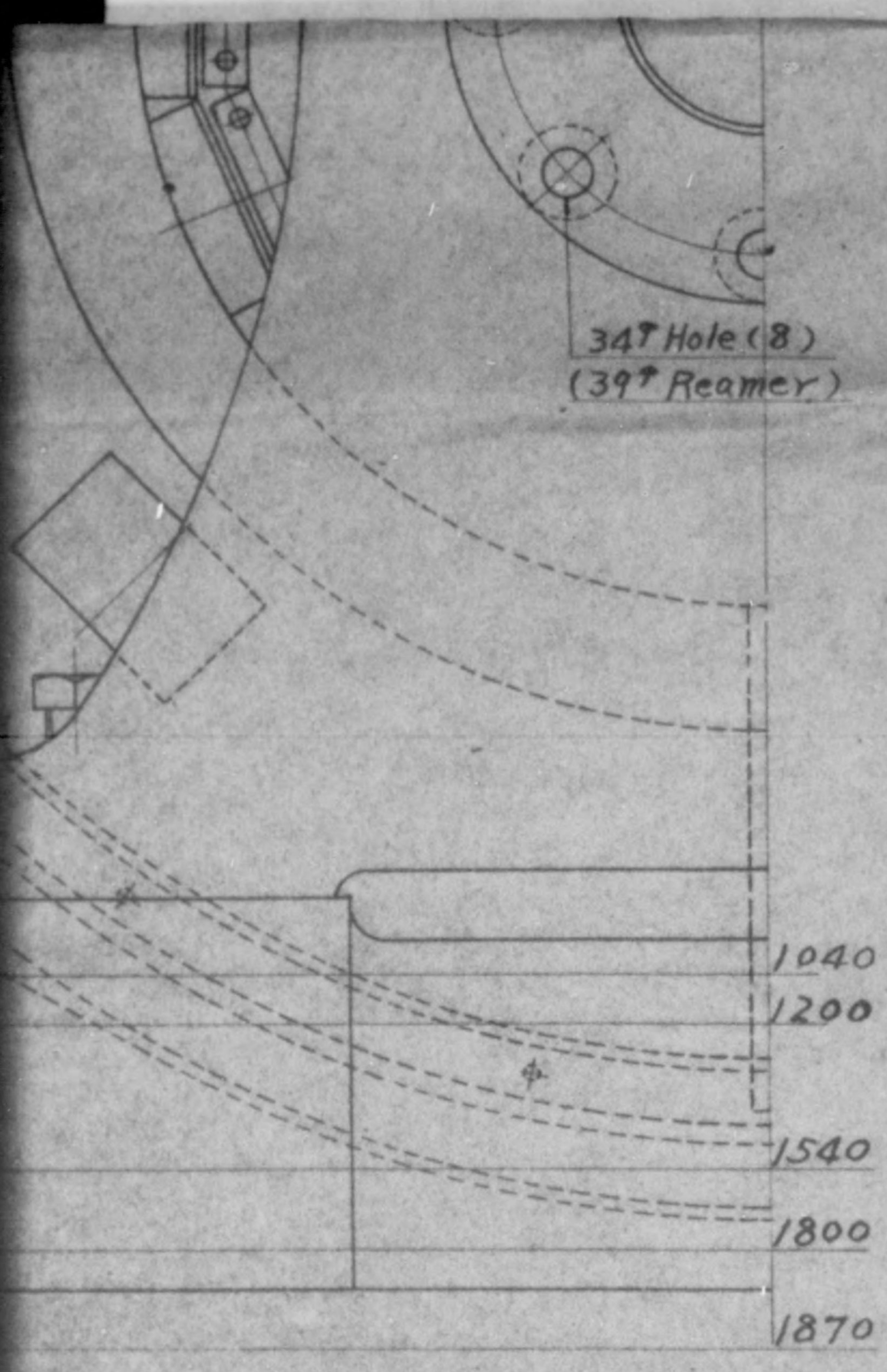
2290





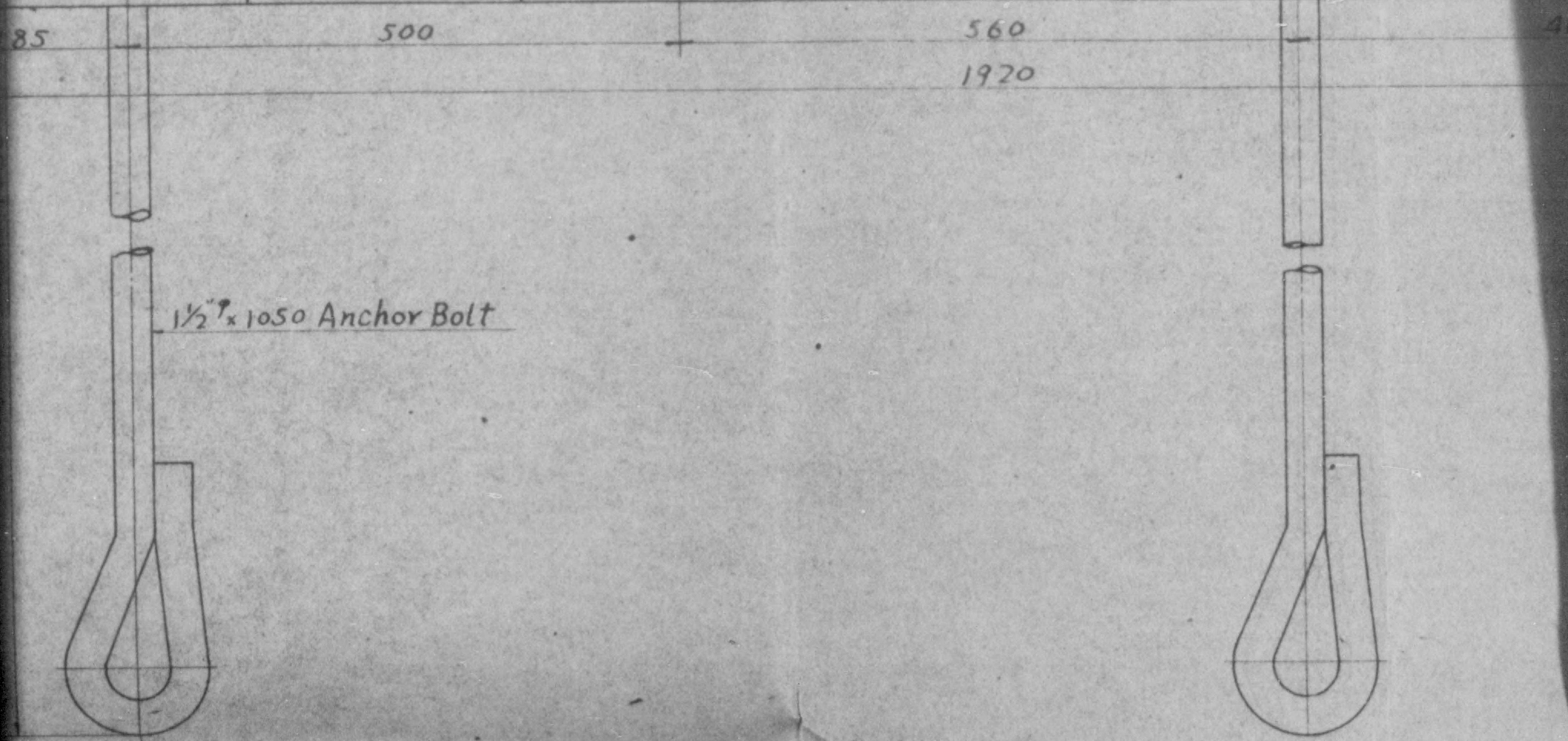
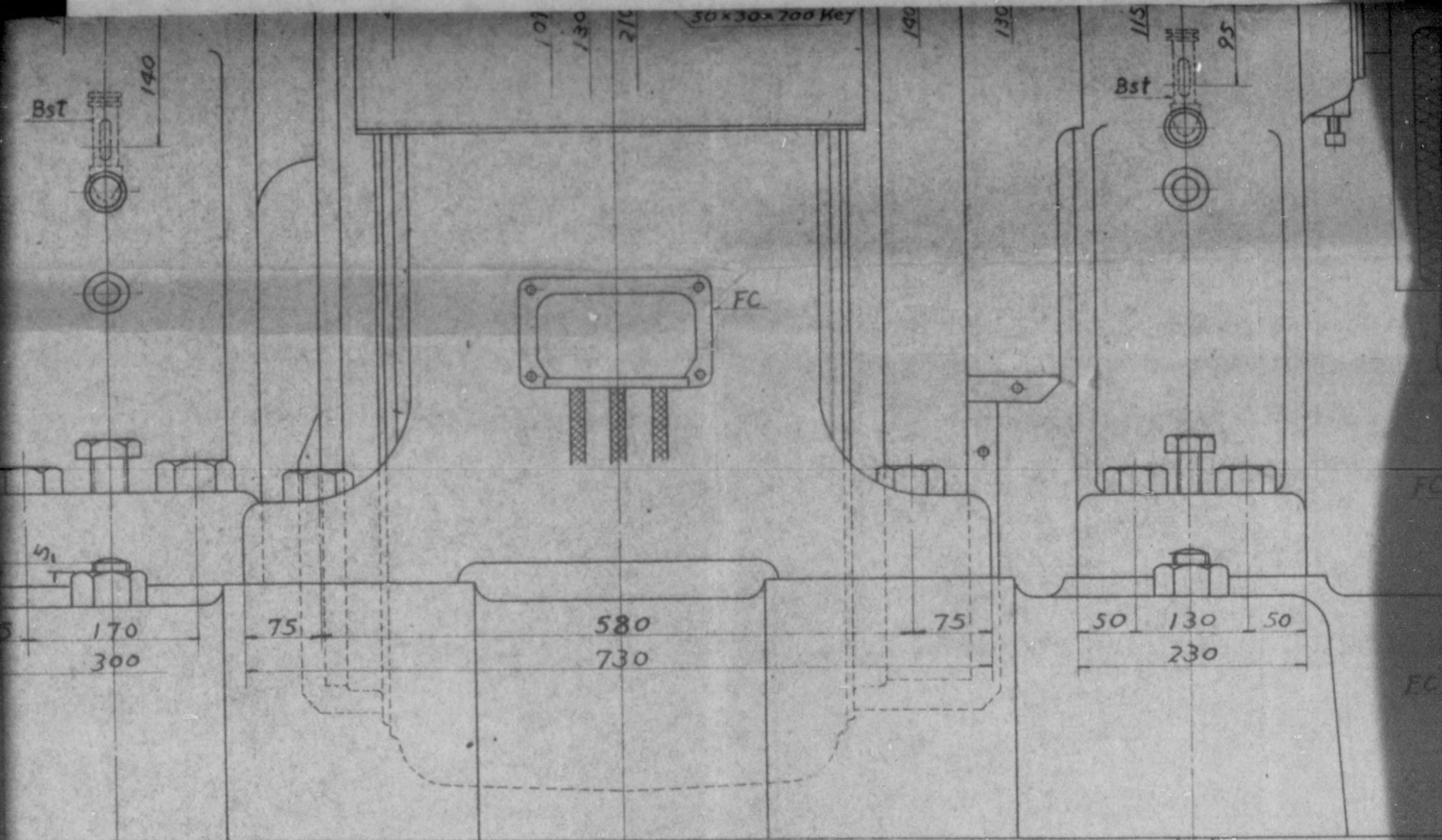


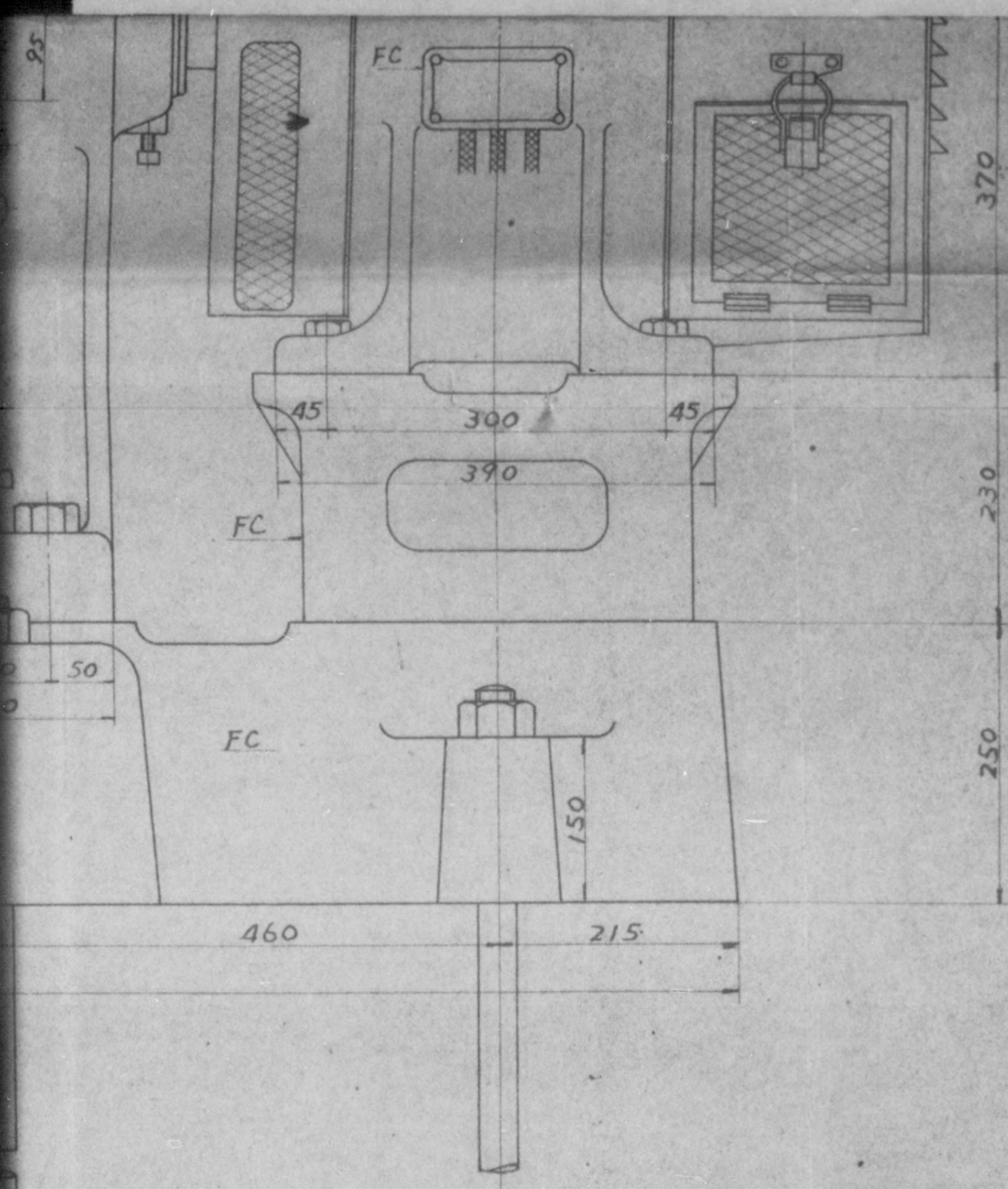
775013
A



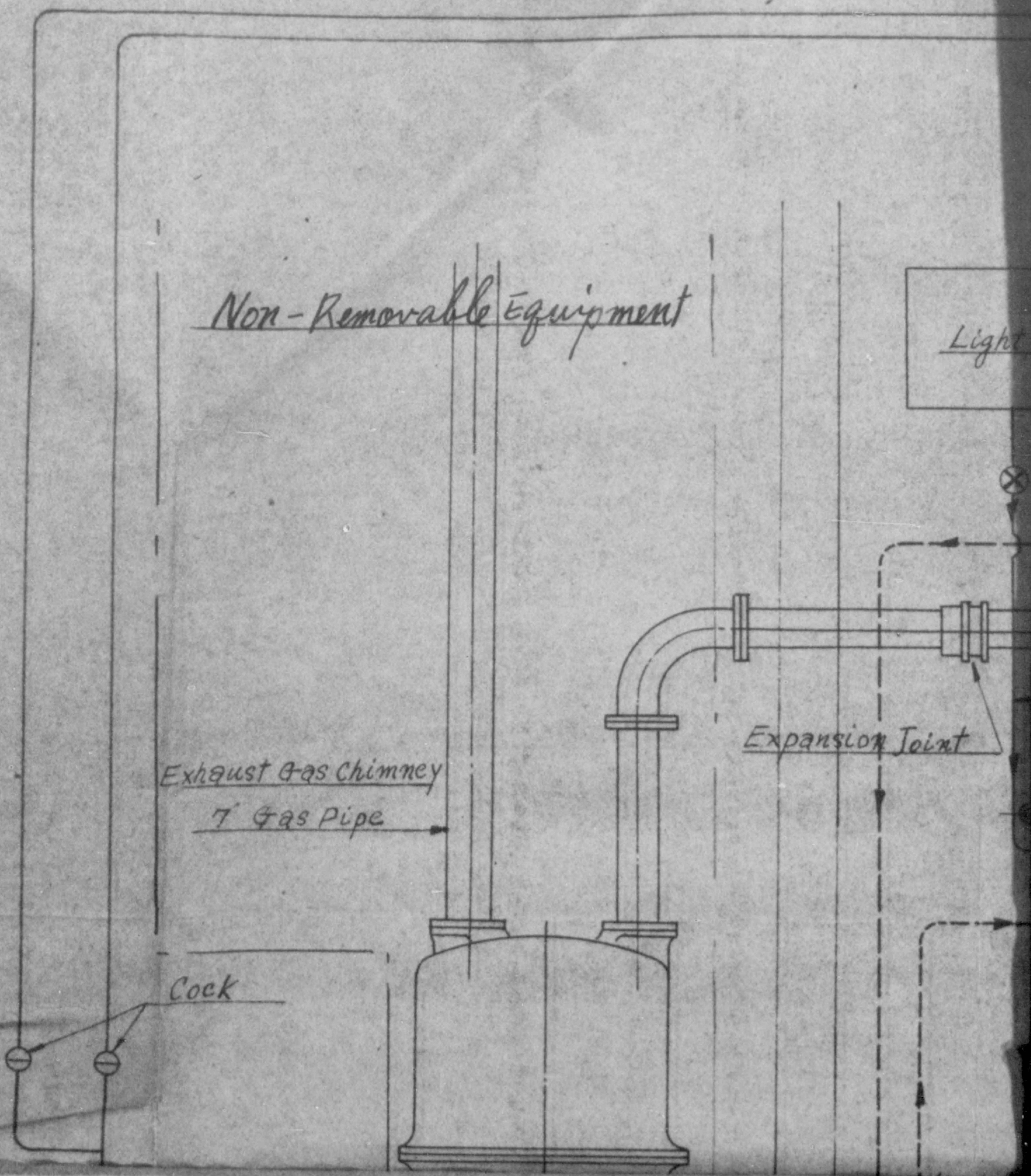
Example	
Mark	Material
BsBM	Brass Bar
BsC	Brass (Cast)
BsT	Brass Pipe
CuB	Copper Bar
CuP	Copper Plate
FC	Cast Iron
FP	Felt Packing
Mch	Micanite
PAR	Phenol
SC	Cast Steel
SR	Steel
ST	Steel Pipe
Wmc	White Metal

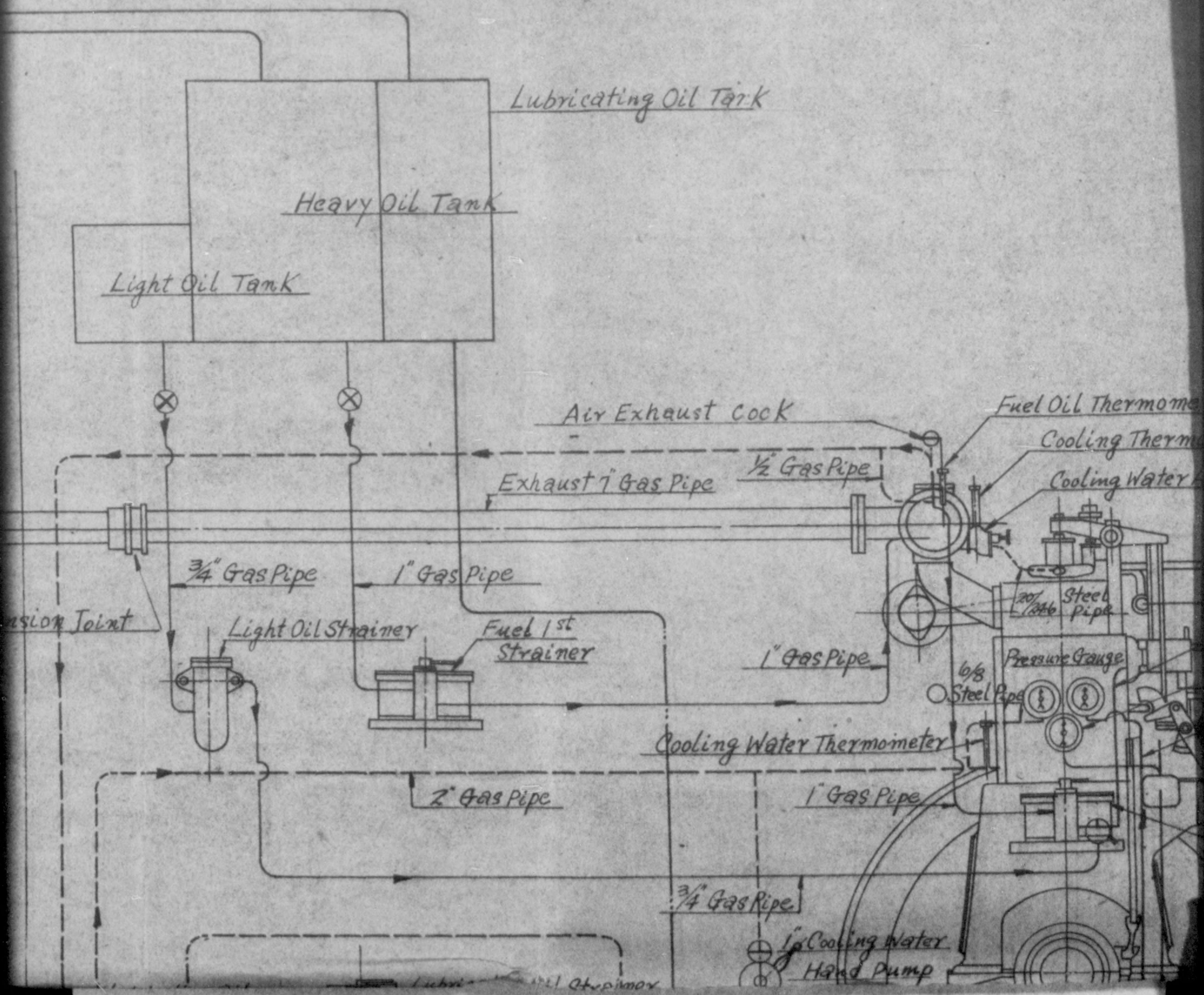
Estimate Weight	
Total Wt	5500 Kg
Armature Wt	2000

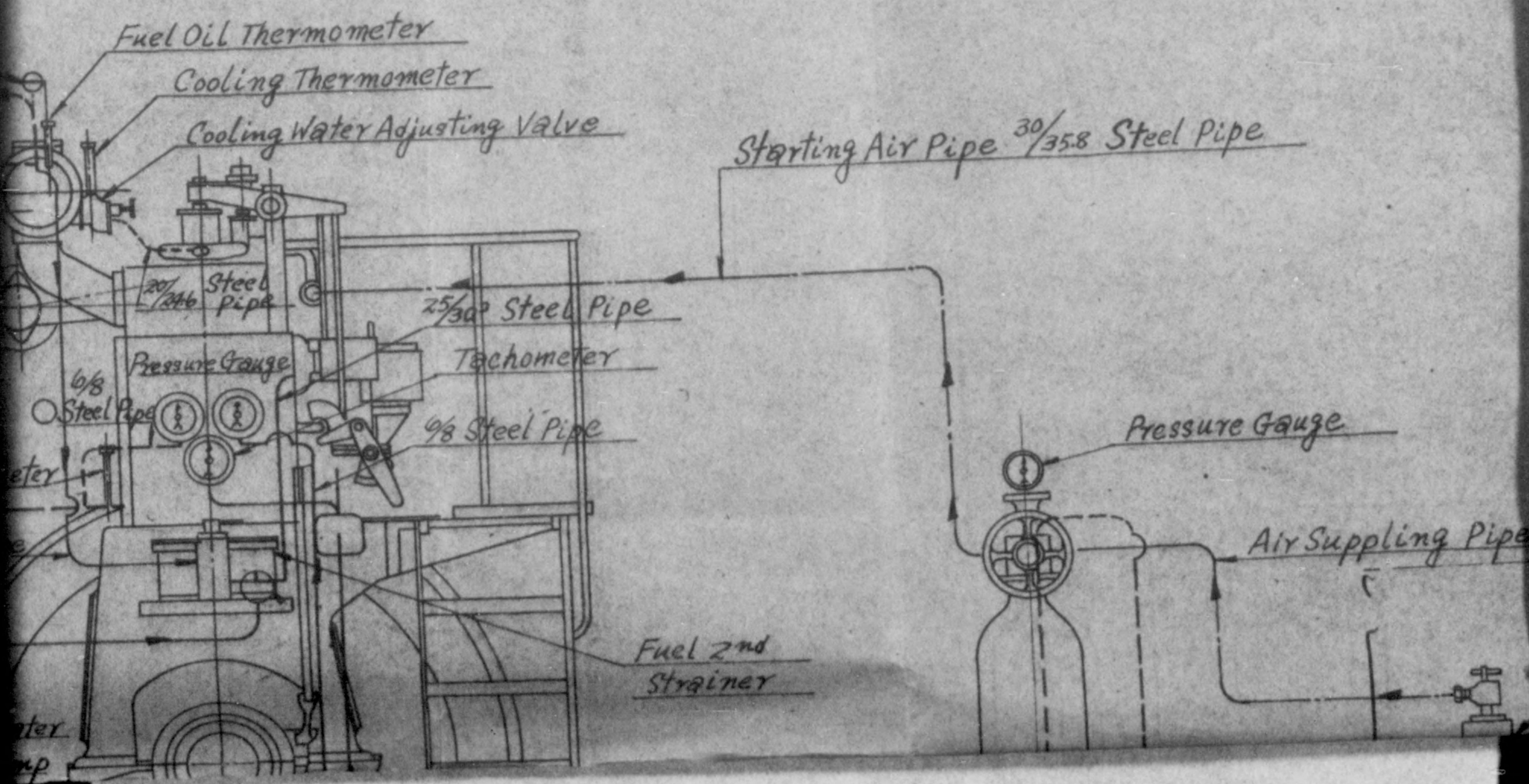


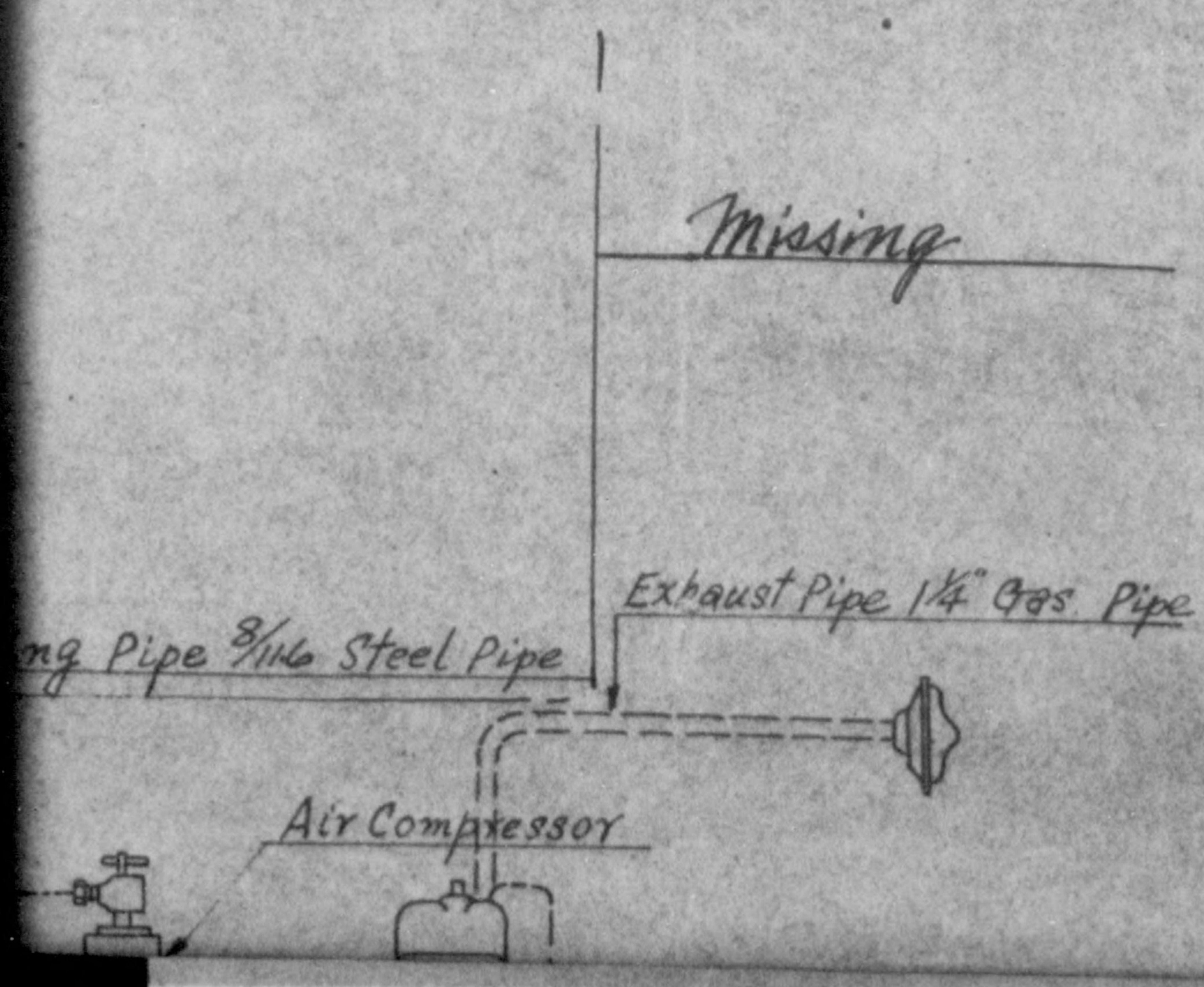


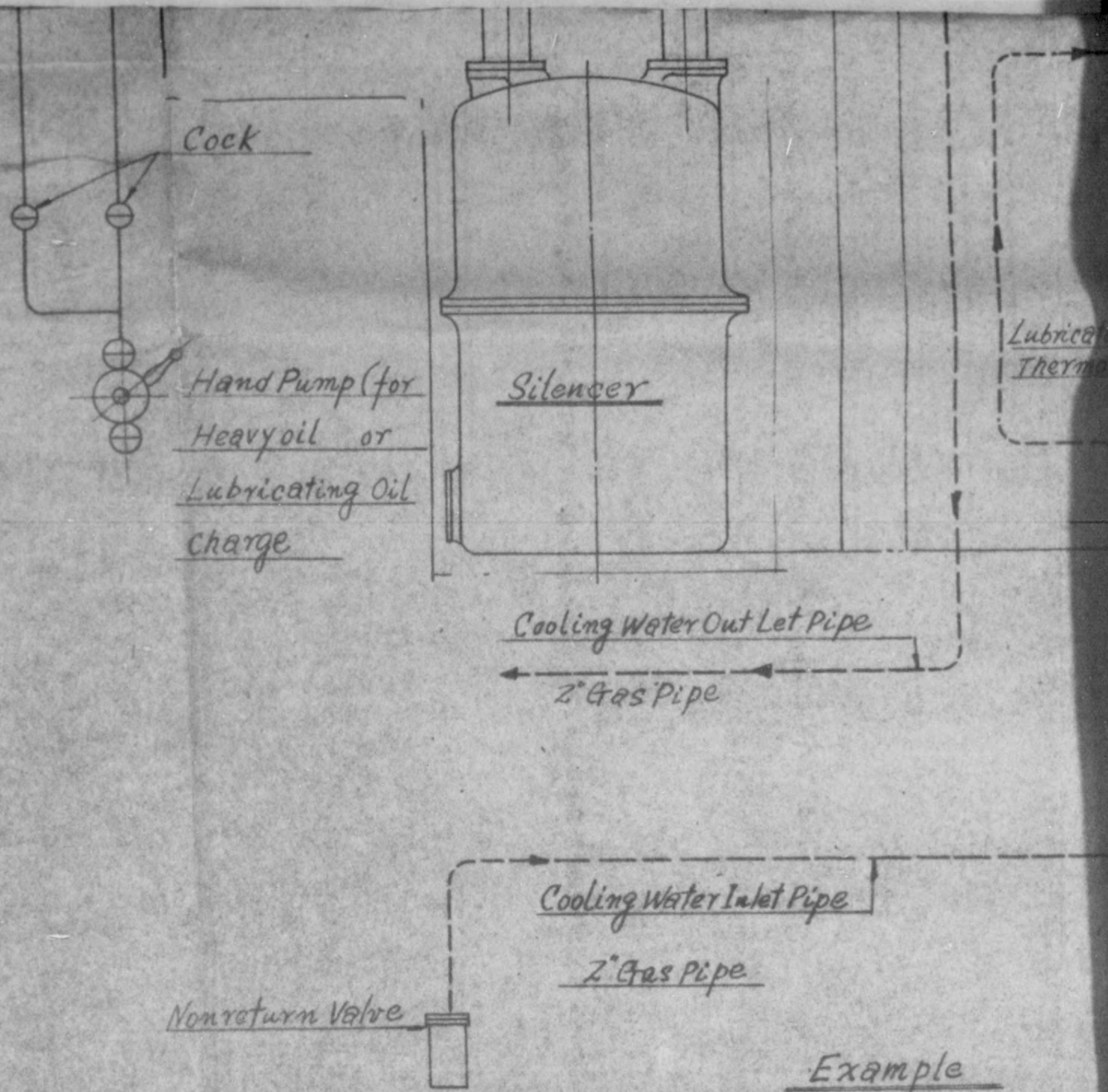
3 Phase A.C. Generator	
Complete	
Chart V	Scale 1:6











Nonreturn Valve

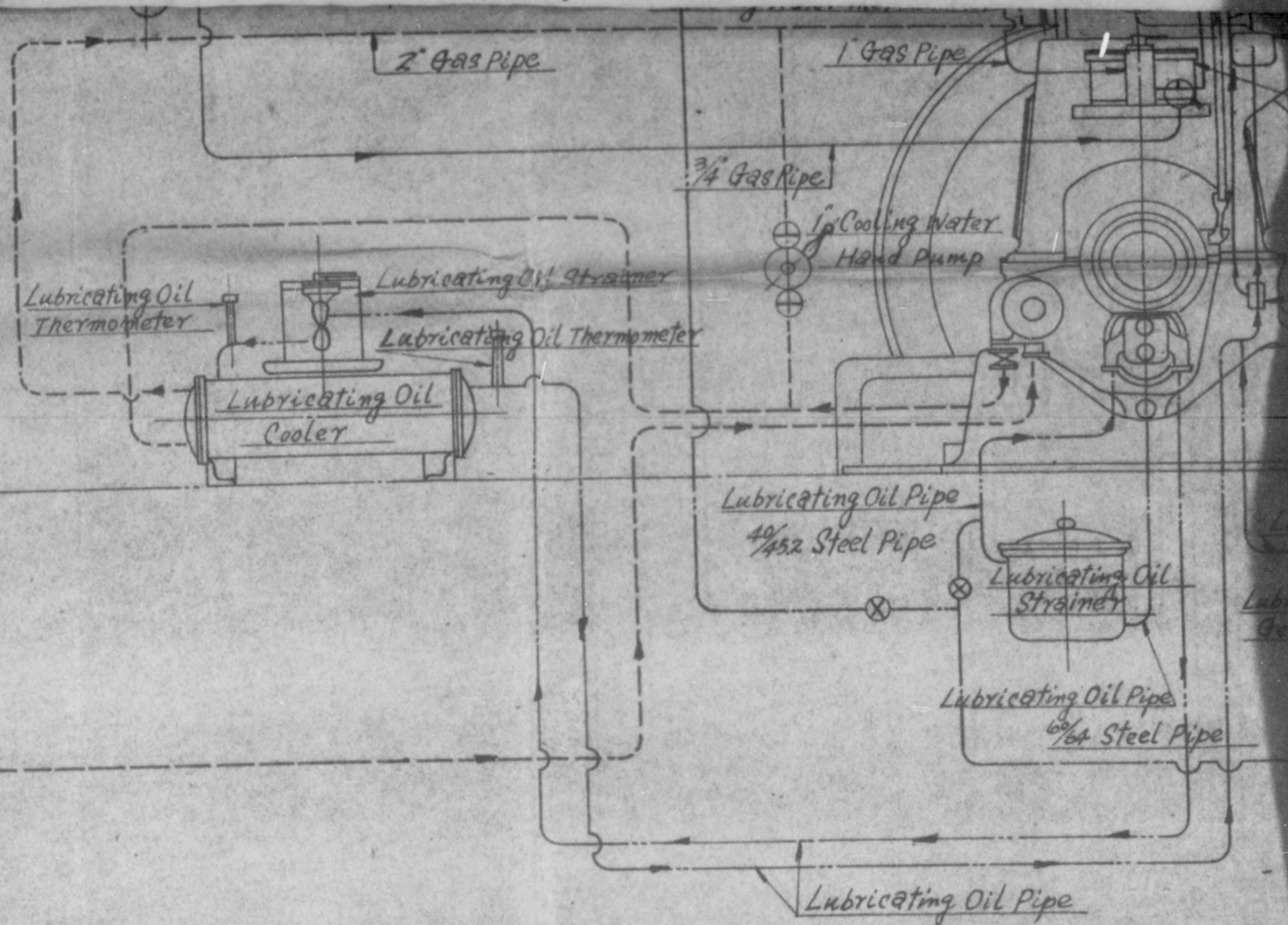
Cooling Water Inlet Pipe

2" Gas Pipe

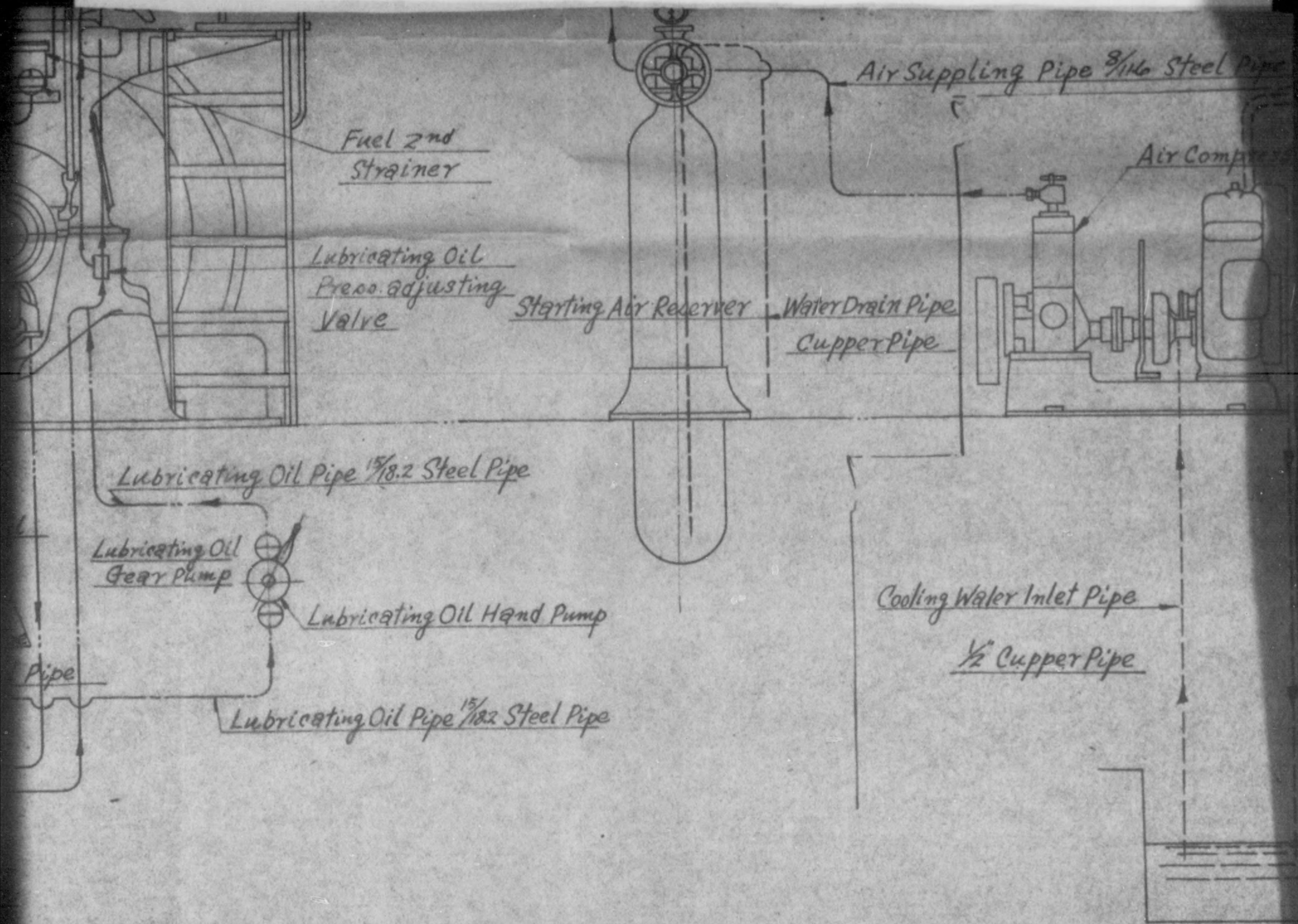
Example

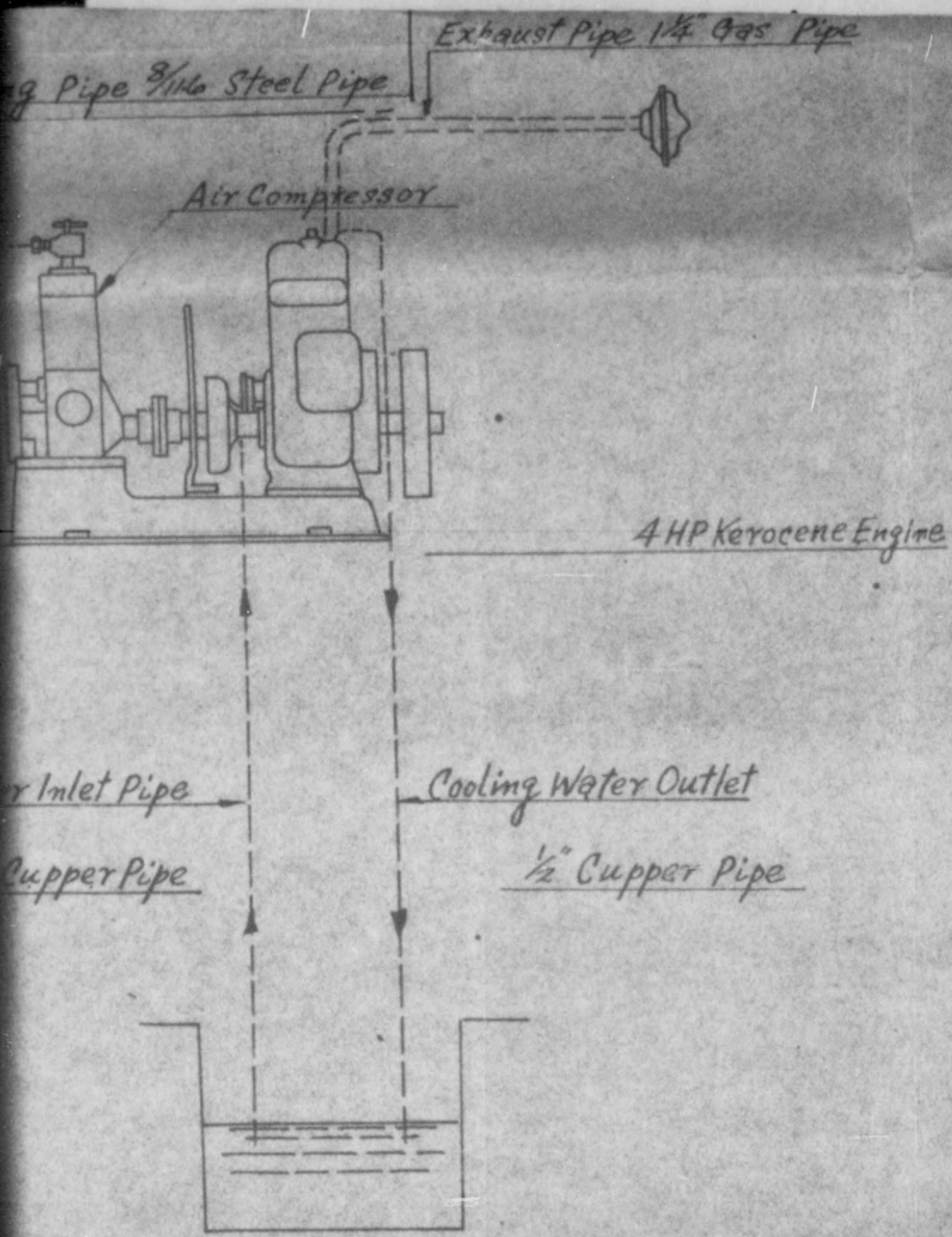
- Fuel Pipe
- Air Pipe
- Cooling Water
- Lubricating Oil
- ⊗ Stop Valve
- ⊖ Stop Cock
- ⊕ Double Head
- ⊗ Sluice Valve

Cooling Water Inlet Temperature	Water required
10°C	about 15 ^{litre} /HP/hr
15°	17 "
20°	20 "
25°	24 "
30°	30 "
35°	40 "



- Sample
- Fuel Pipe
- Air Pipe
- Cooling Water Pipe
- Lubricating Oil Pipe
- Stop Valve
- Stop Cock
- Double Head Cock
- Sluice Valve

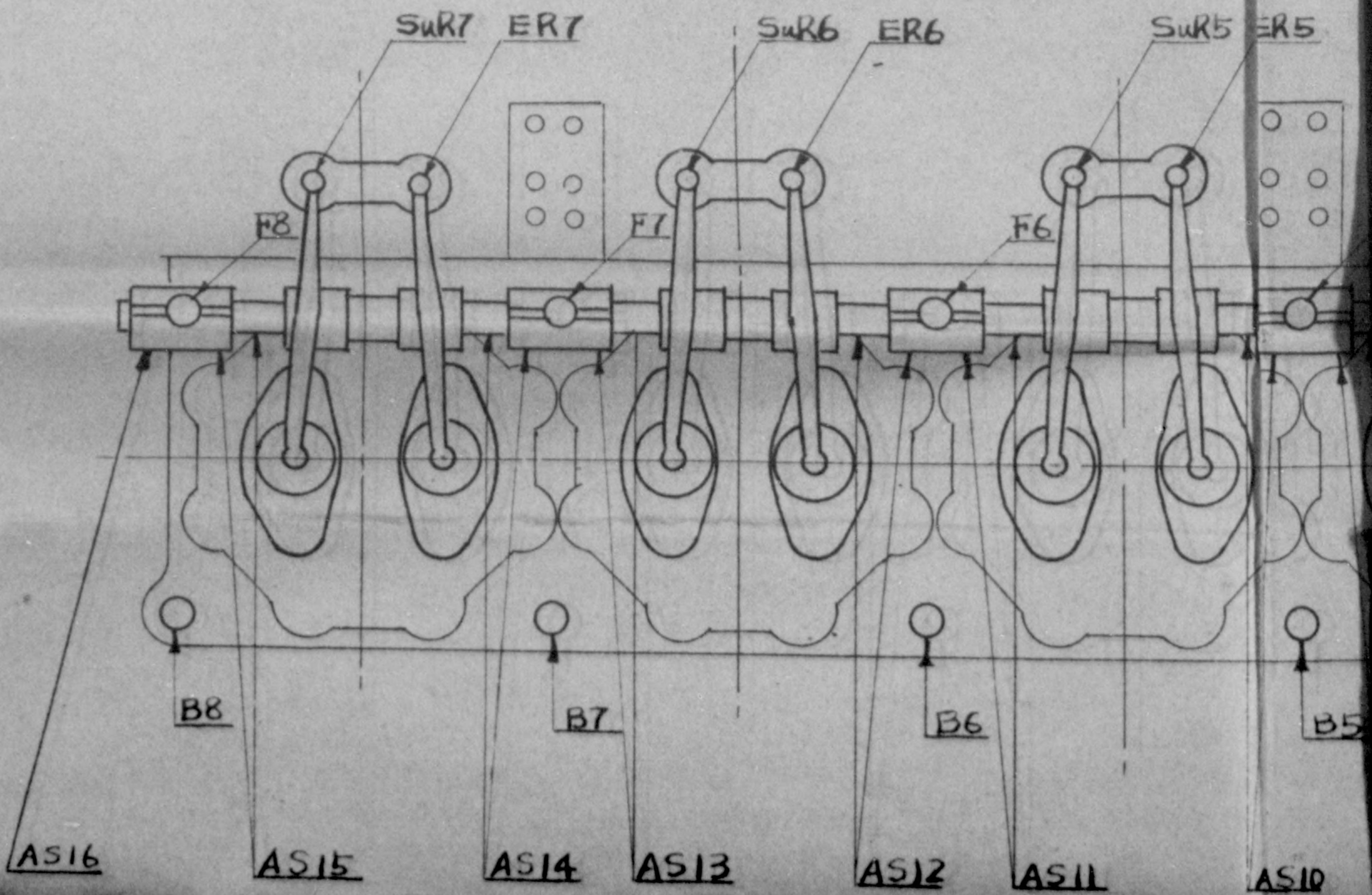
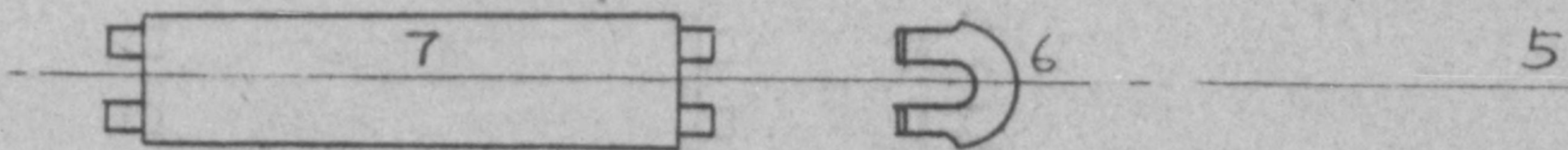
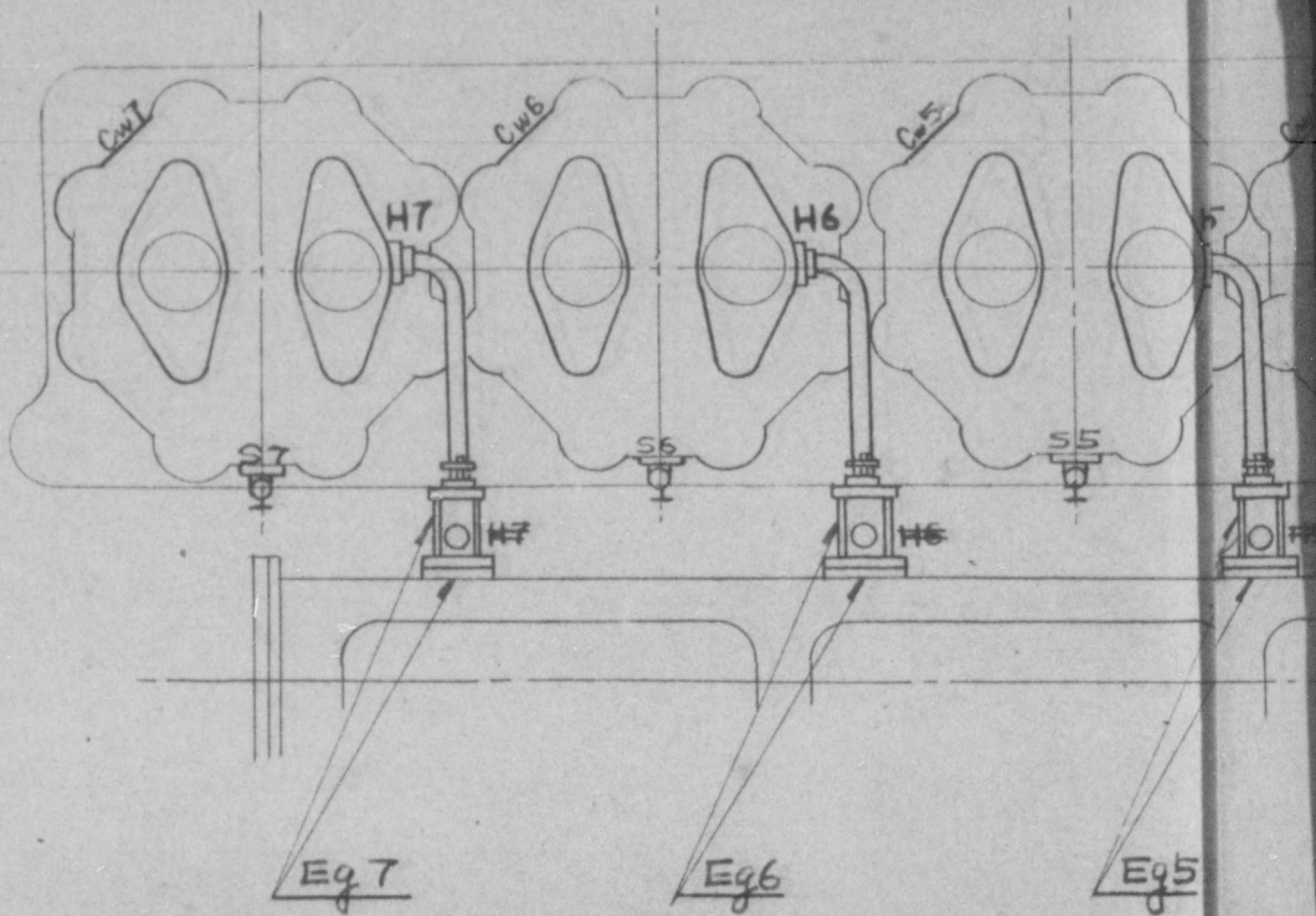


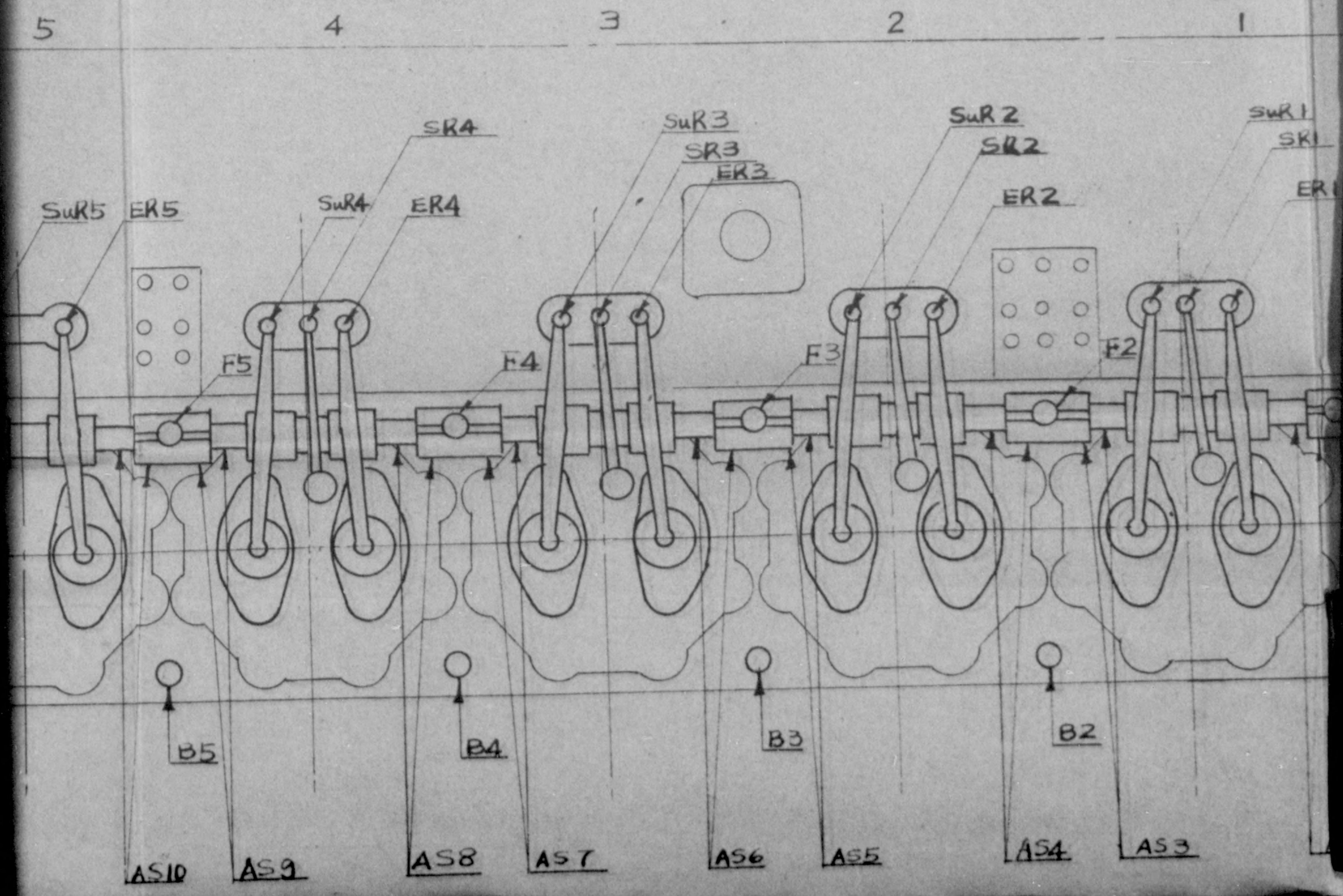
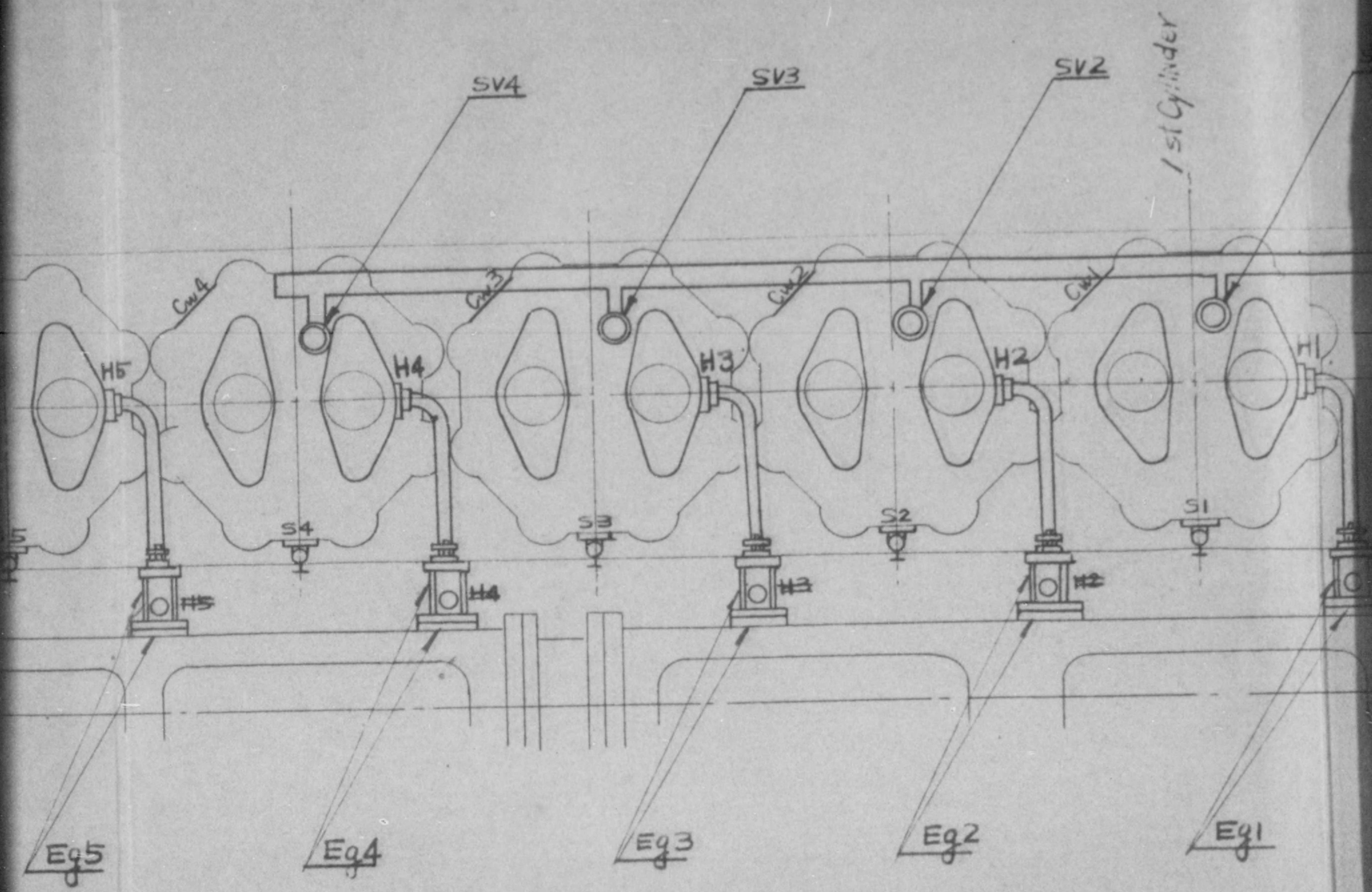


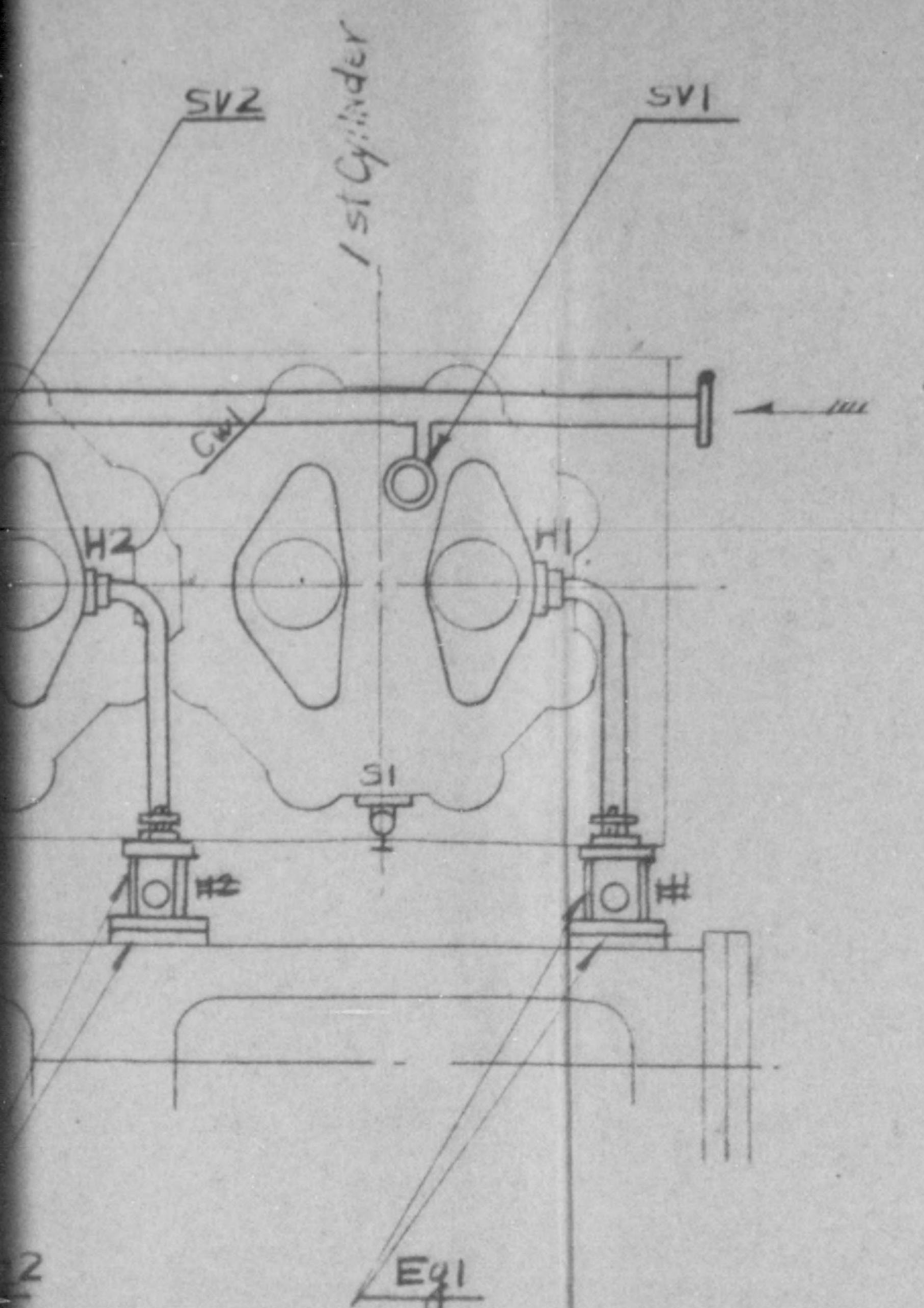
3 Phase AC Generator
Piping Chart

Chart **III**

CHART X-4

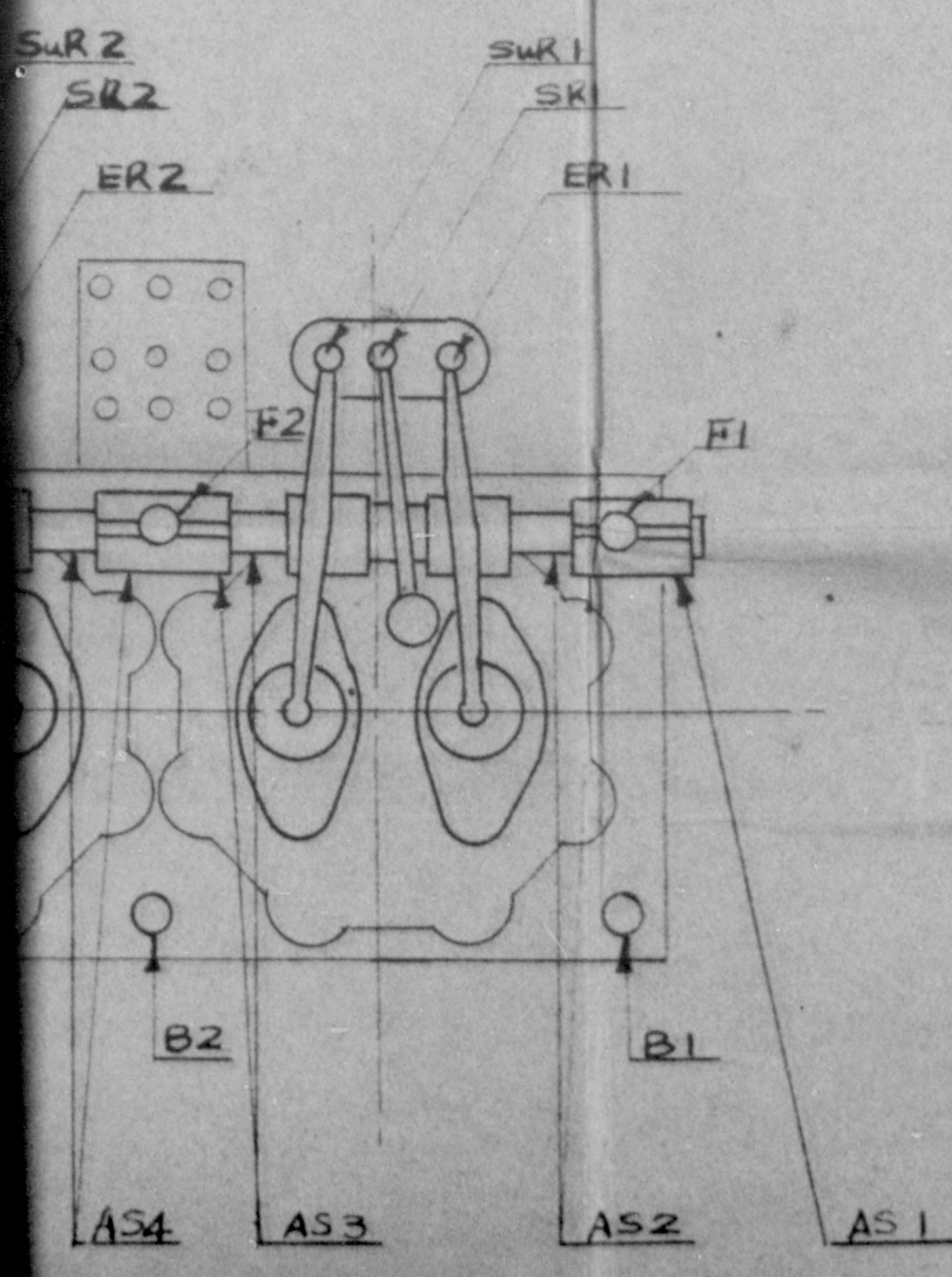






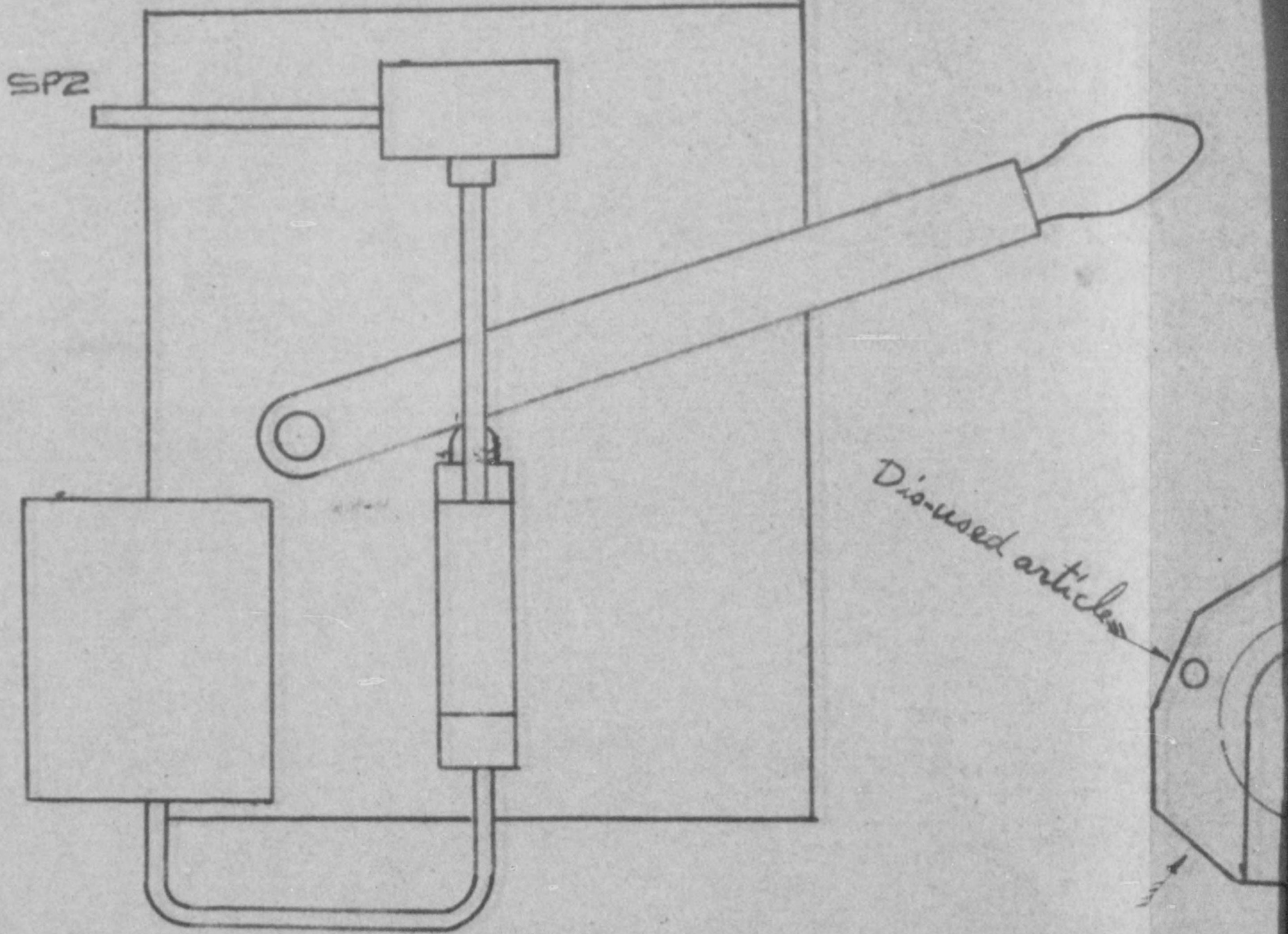
Starting Air.

Cylinder Head Cooling Pipes.
Starting Air pipe & Starting Air Valve



Valve Levers

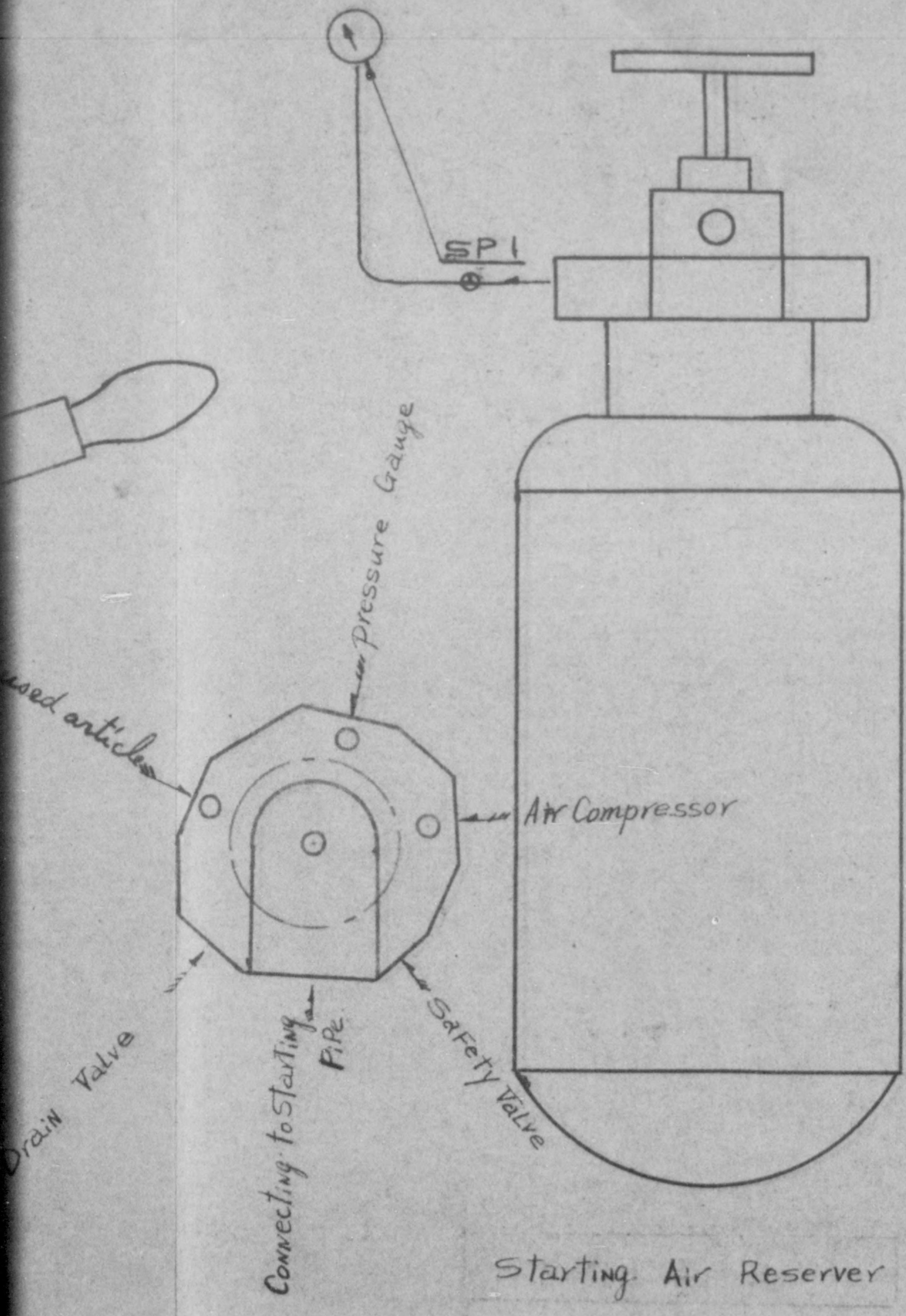
CHART. X-7



Fuel Nozzle Tester

Dis-used articles

Drain Valve

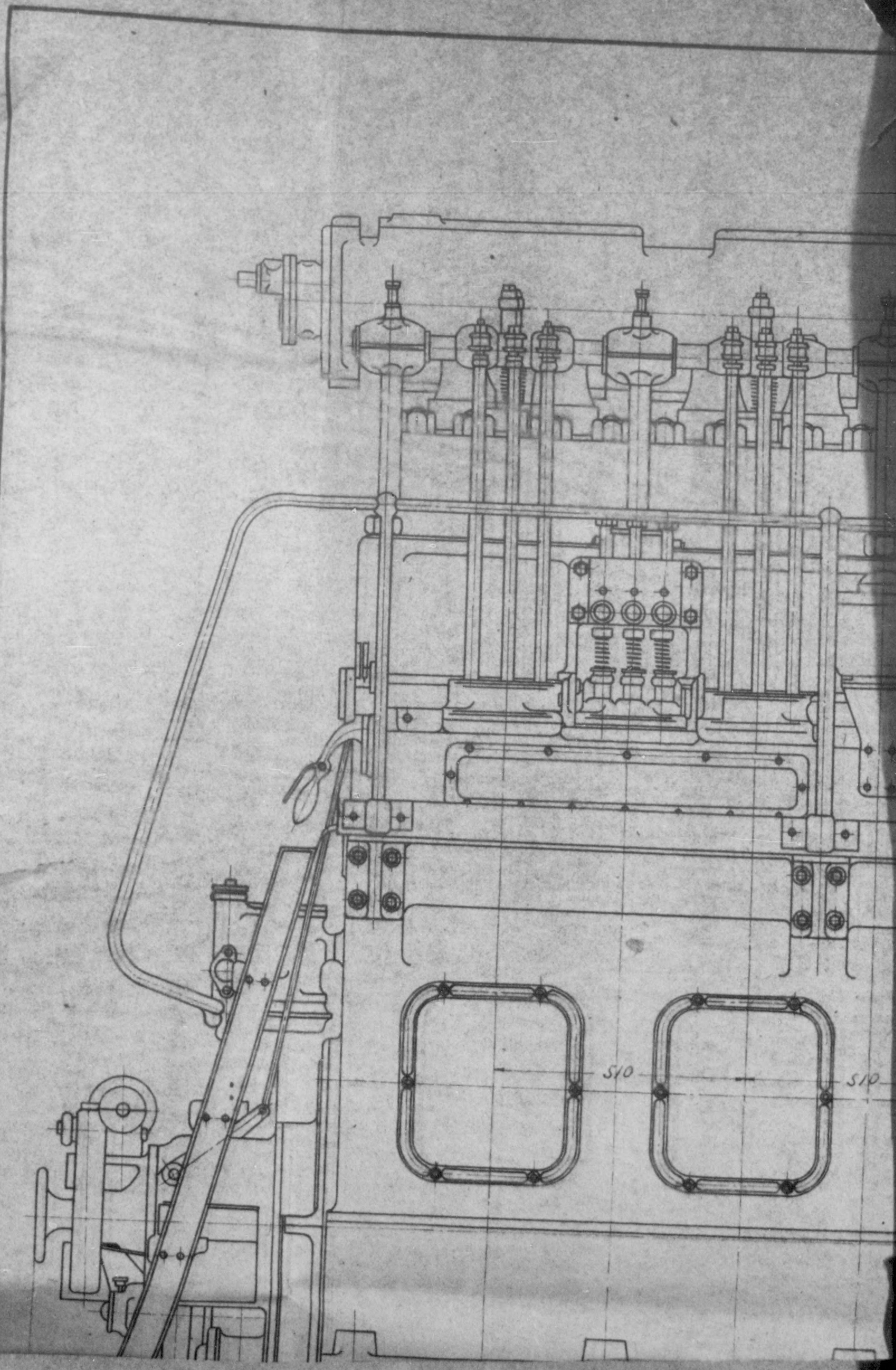


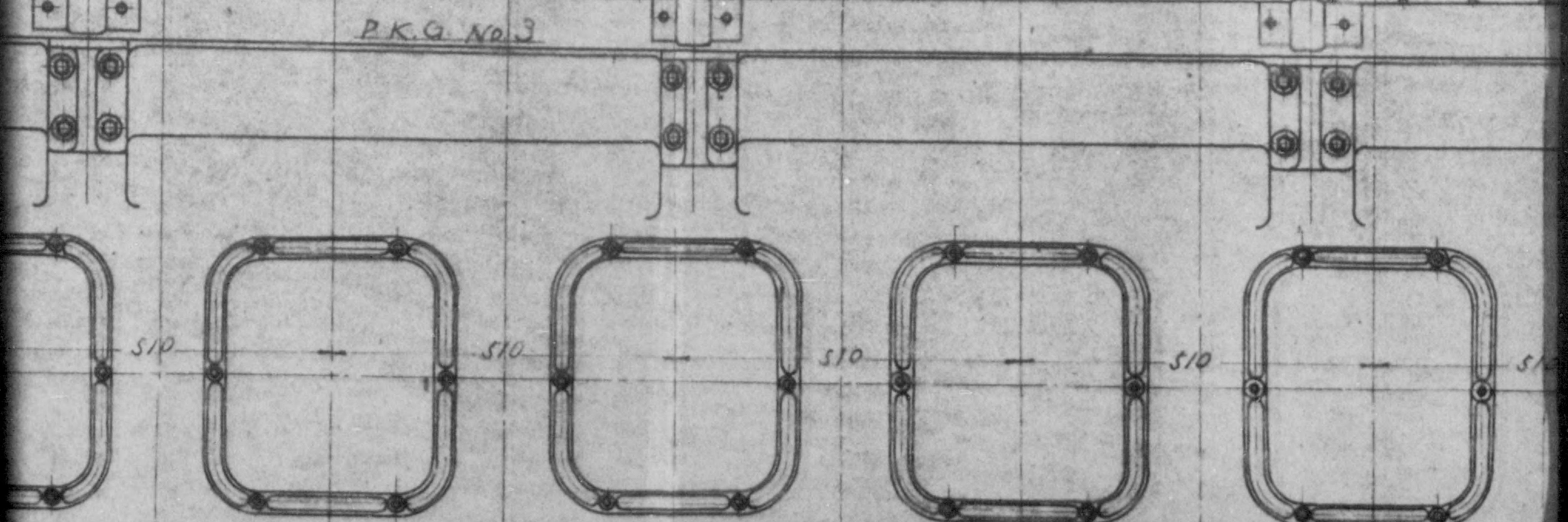
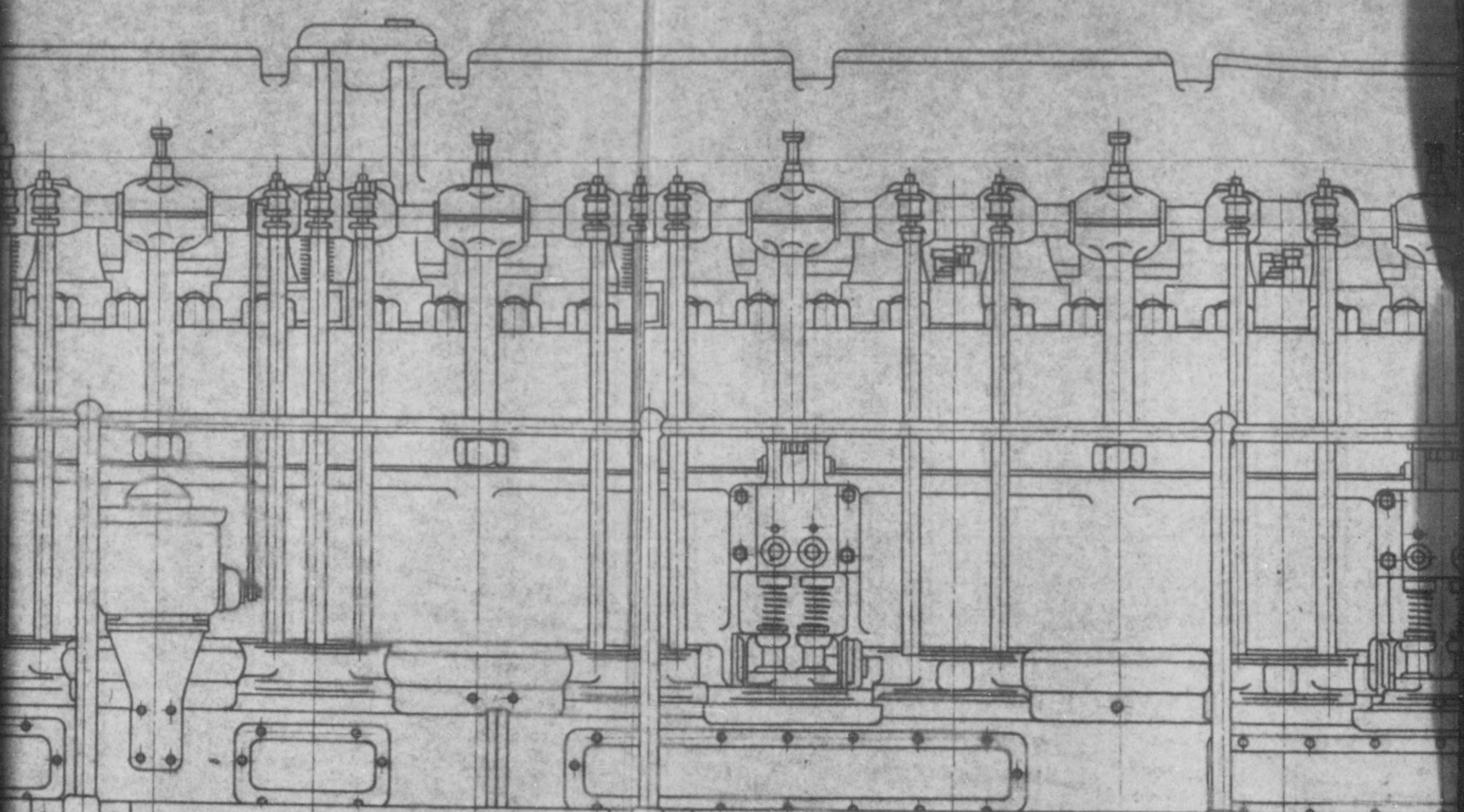
NAME PLATEWarningDriving

1. Drive the engine, after reading enough "The direction for Operation".
2. Preceding start, rotate with hand always.
3. Preceding start, look over through the cylinder, if there ~~are~~ ^{fill} water or not.
4. Keep the fuel & lubricating oil clean (no dust).
5. If the air in fuel oil, the engine do not drive.
6. Temperature of cylinder cooling water ⁱⁿ operating is $40^{\circ}\text{C} - 50^{\circ}\text{C}$.
7. Lubricating oil pressure is $1.0 - 1.5 \text{ kg/cm}^2$.
8. Take a indicator diagram occasionally.
9. Take care the Temp and sound eachpart of engine.
10. Give Kerosen~~oil~~ to Suction & Exhaust Valves not to St~~ick~~.
11. When stop engine, drain water off after cooled well.

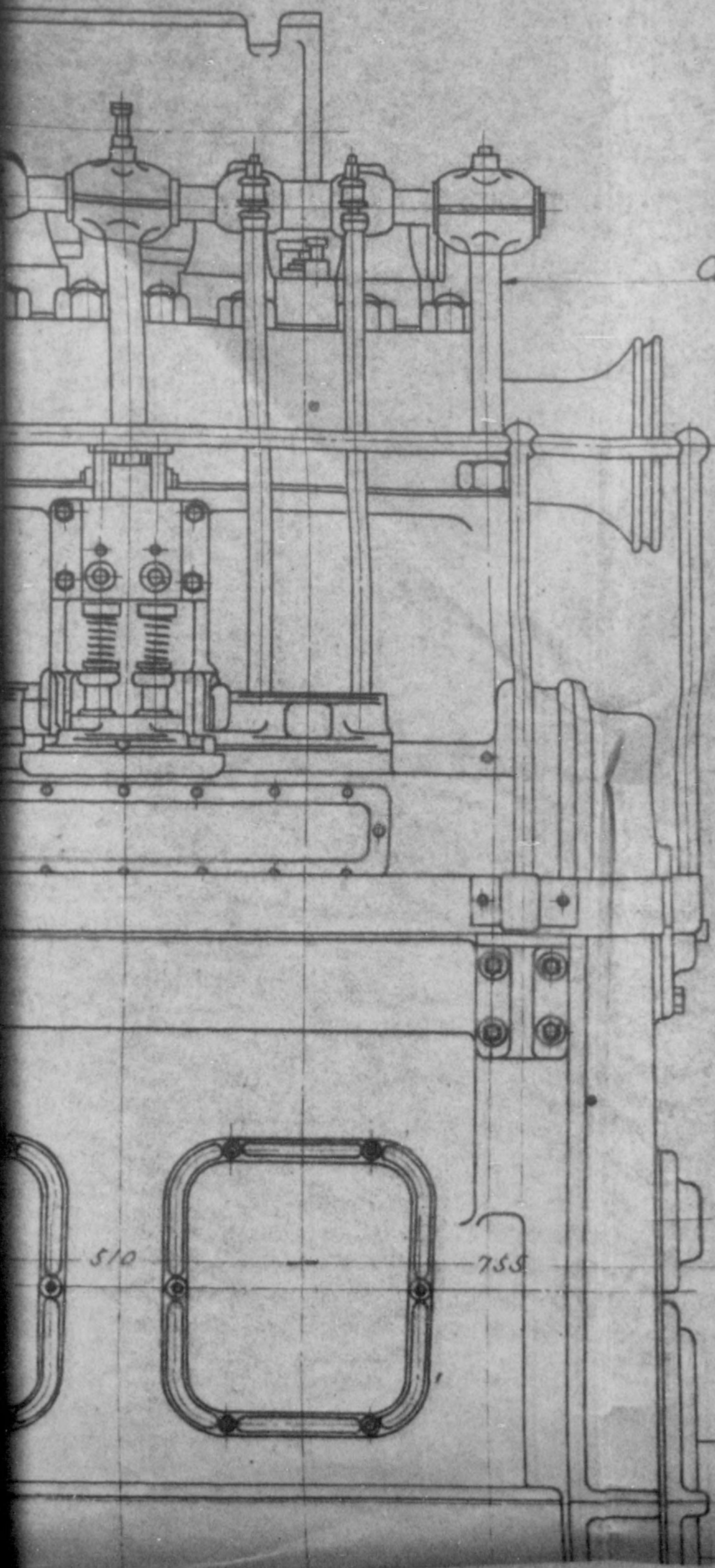
Adjustment

12. Adjust it, after inspect the plan.
13. Do injection test for injection nozzles or pumps, which do not work well.
14. Don't use emery powder to rub fuel nozzle or fuel pump rubbing.
15. Use the appointed needle for cleaning of fuel nozzles.
16. Don't break up fuel nozzle and fuel pump unnecessary.
17. ^{Tighten} ~~Set~~ the crank pin bolt with appointed spanner, not to excess.
18. Take care the loosening of crank pin bolt after over haul.

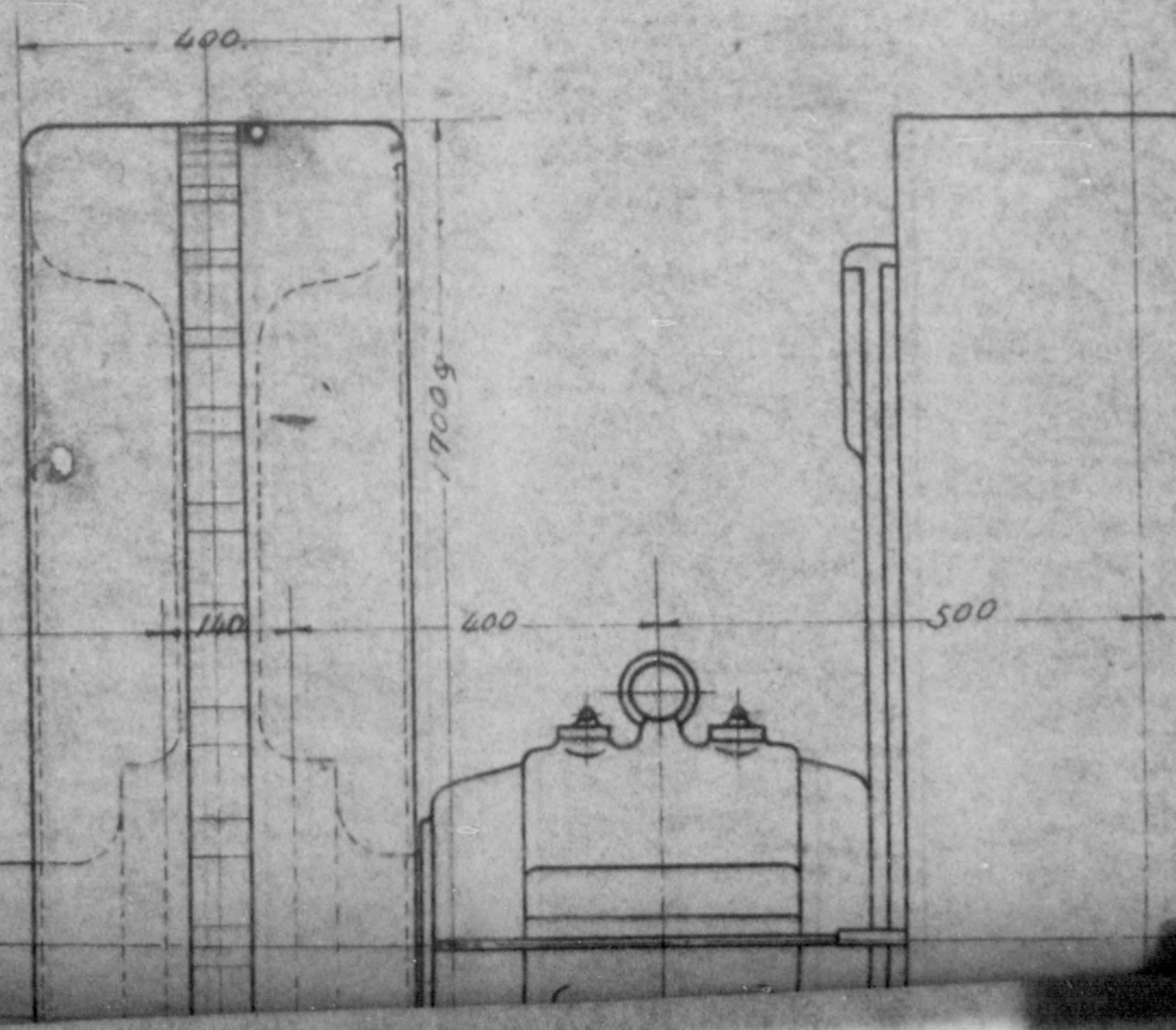




P.K.G. No. 1.



Connecting Bolts (8)
P.K.G. No. 11



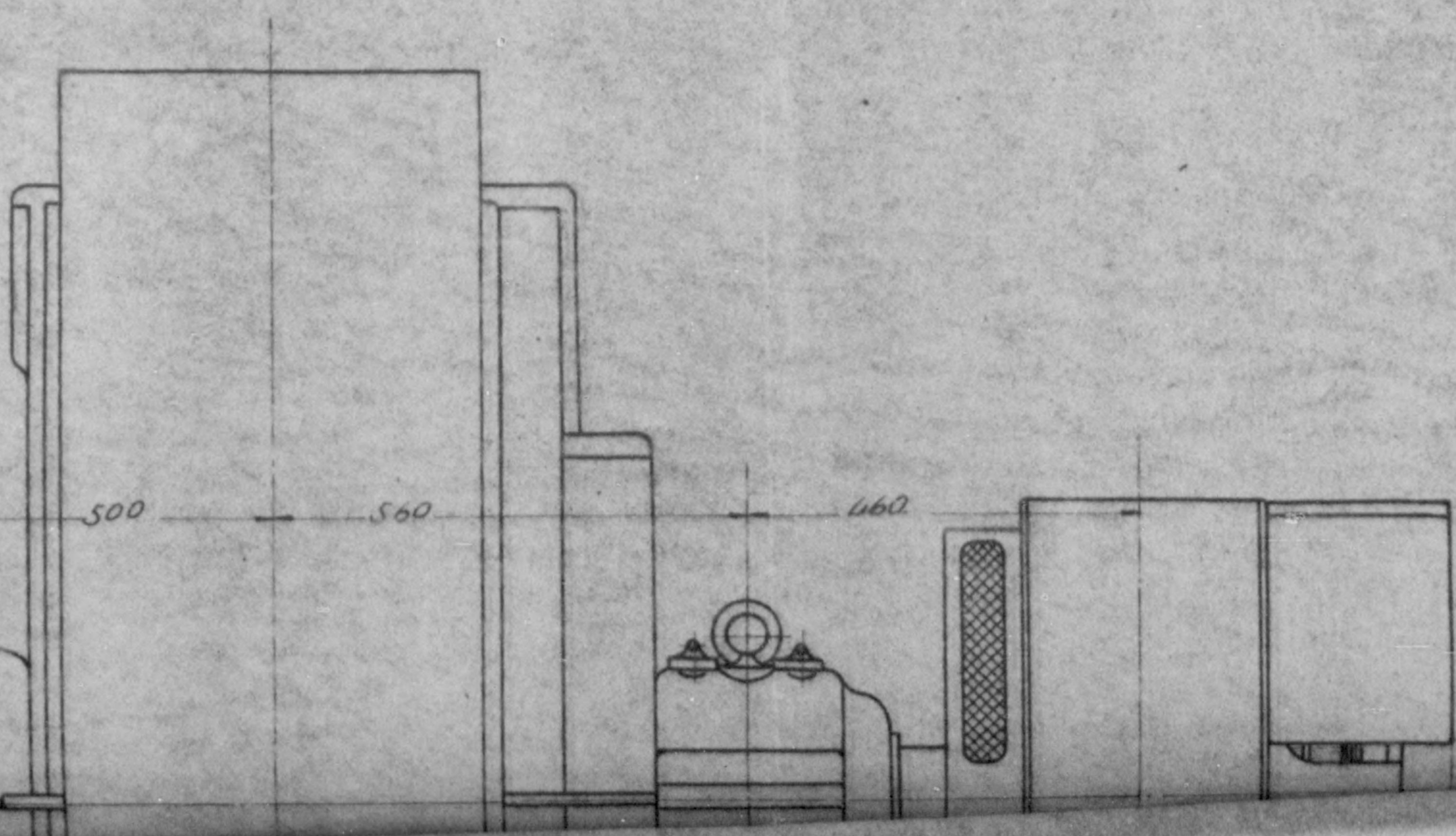
510

755

140

400

500



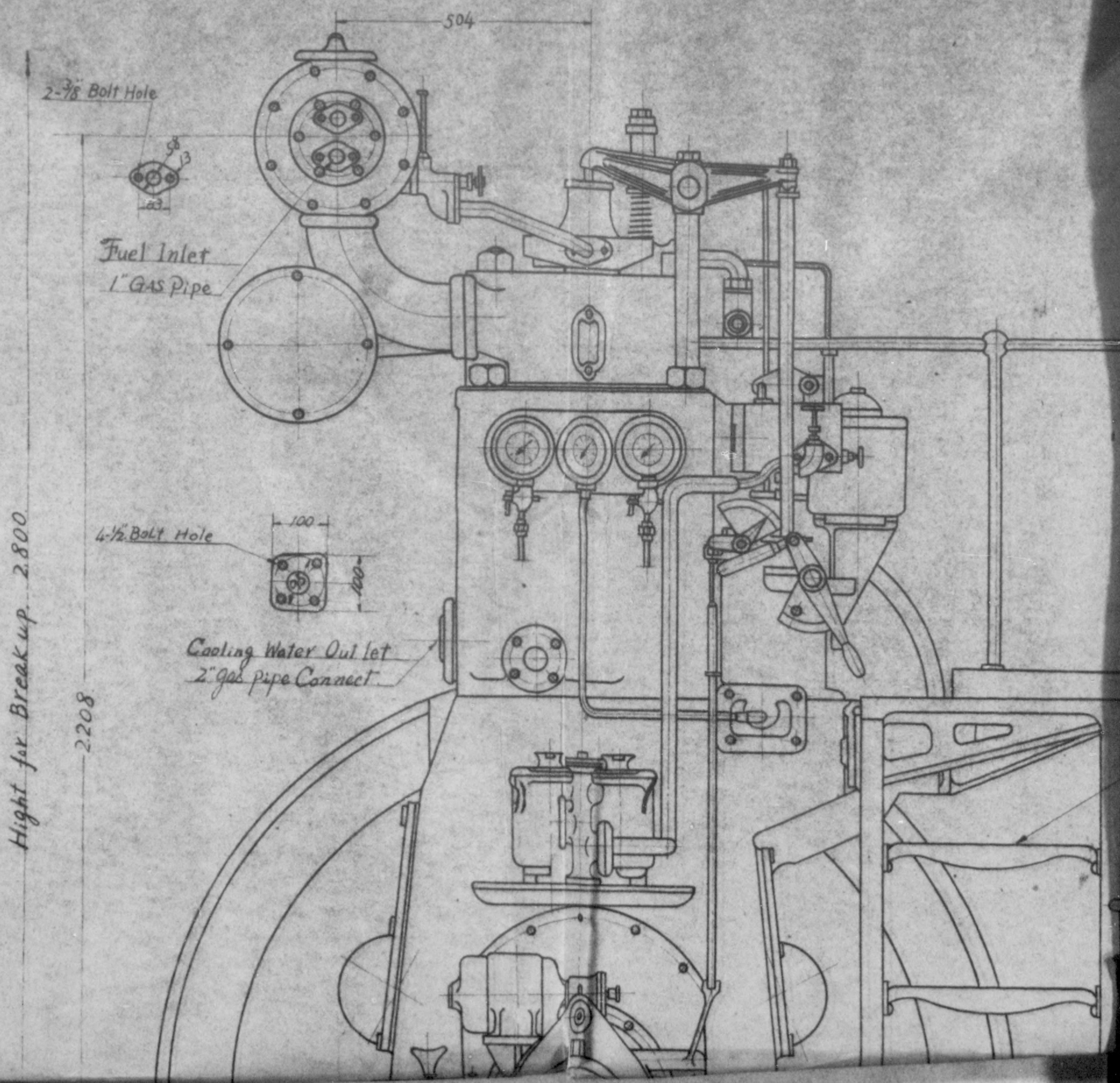
Height for Break up. 2.800

2.208

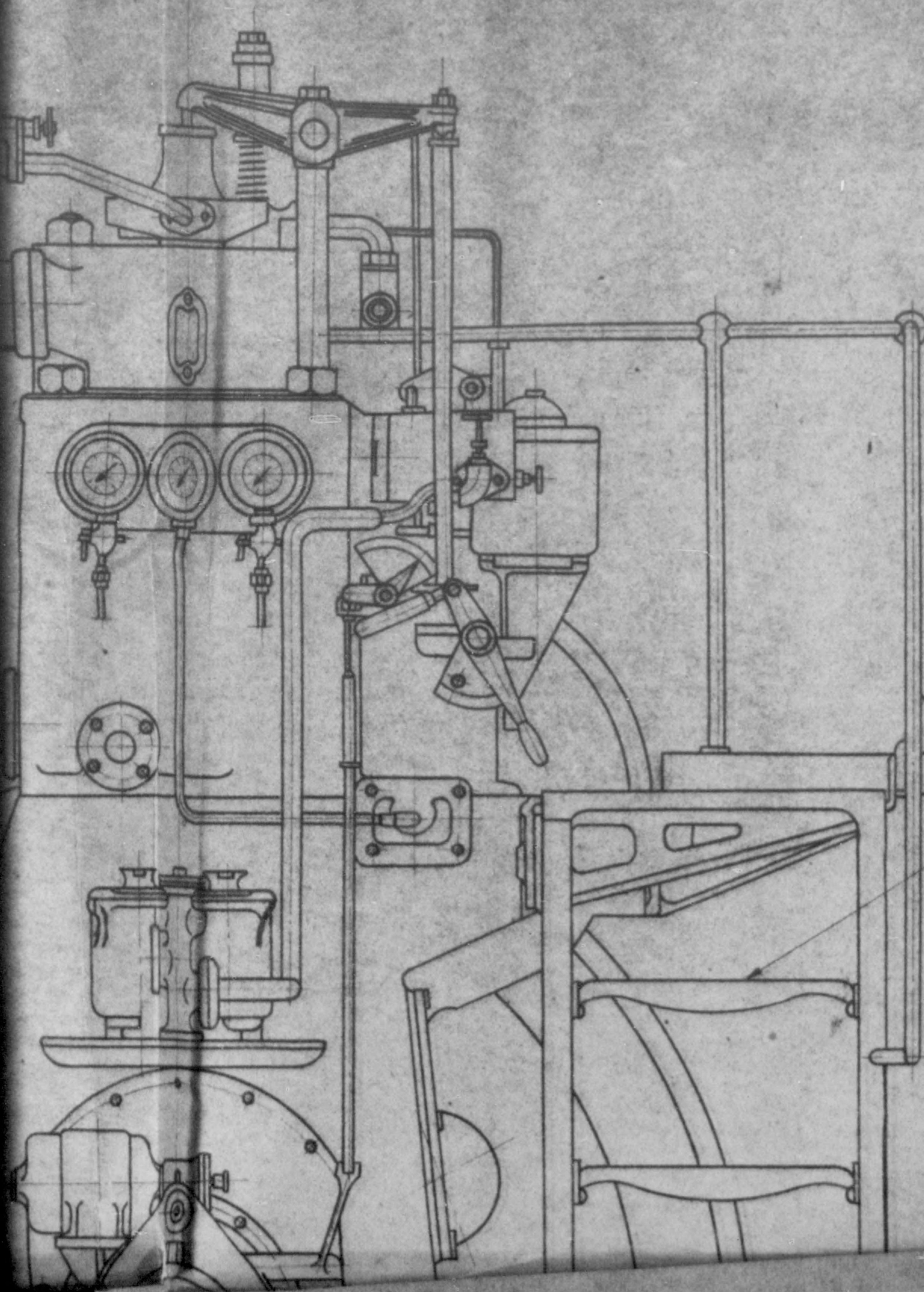
2-7/8 Bolt

Fuel
1" G

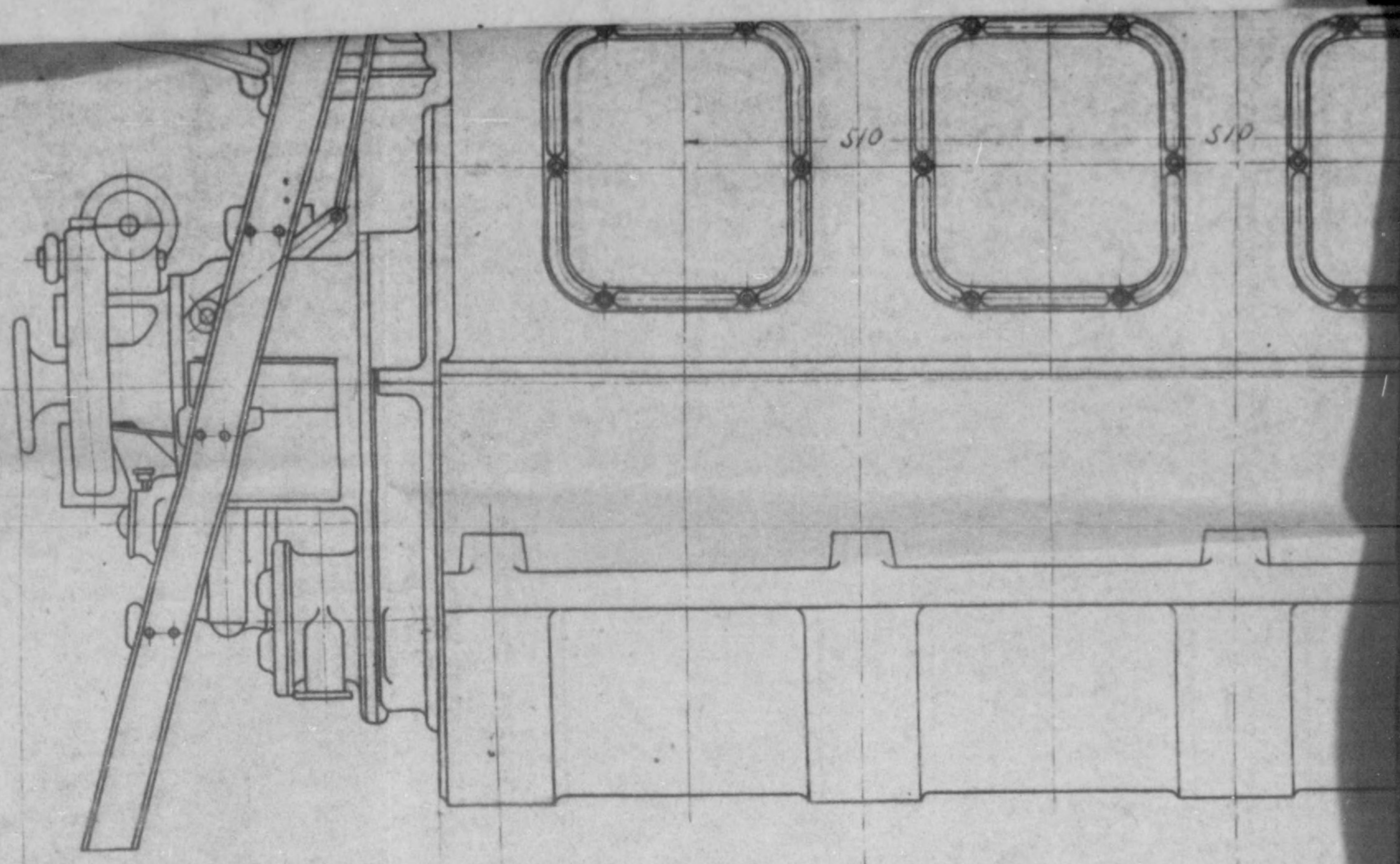
4-1/2 Bolt



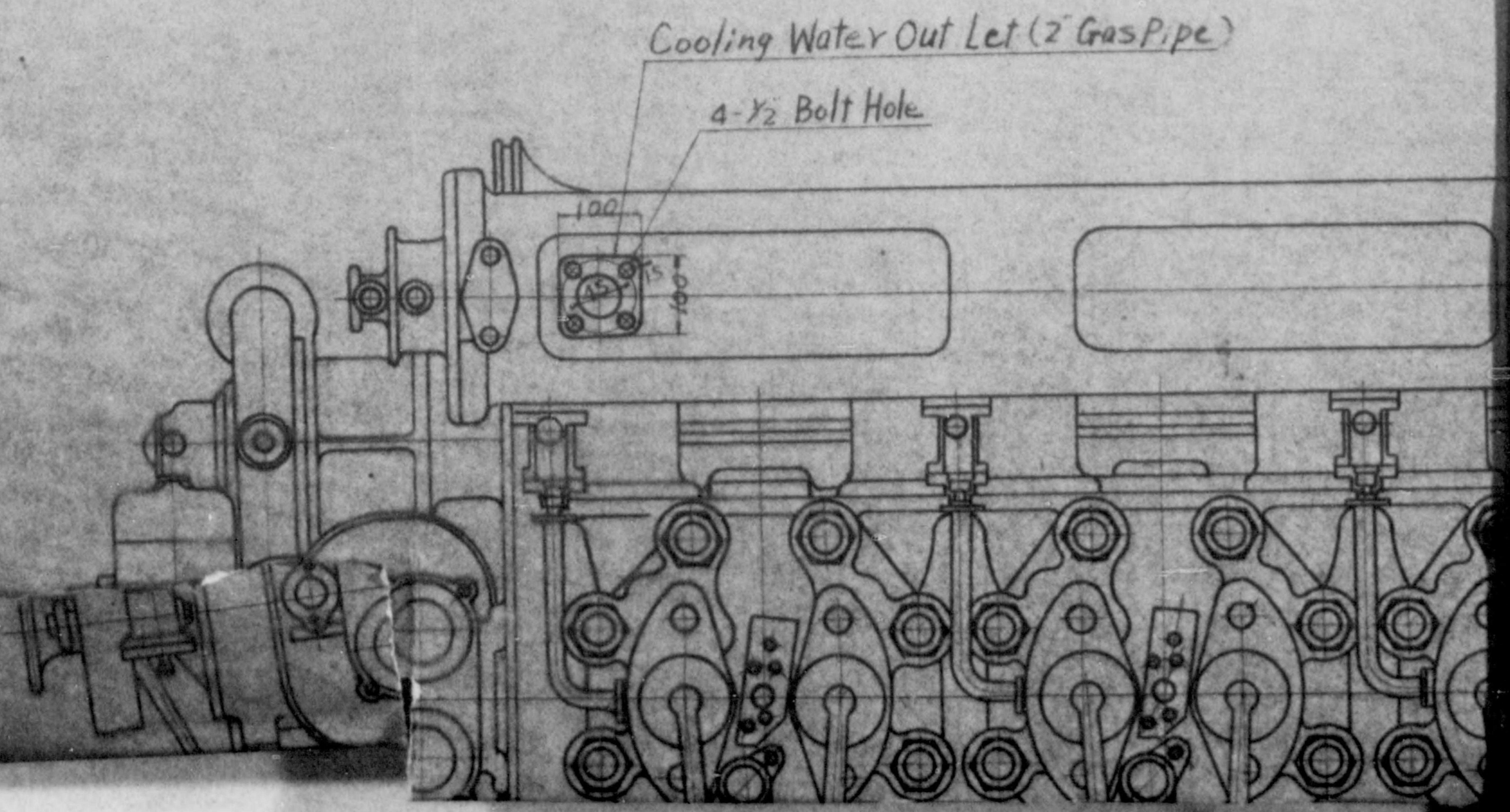
504

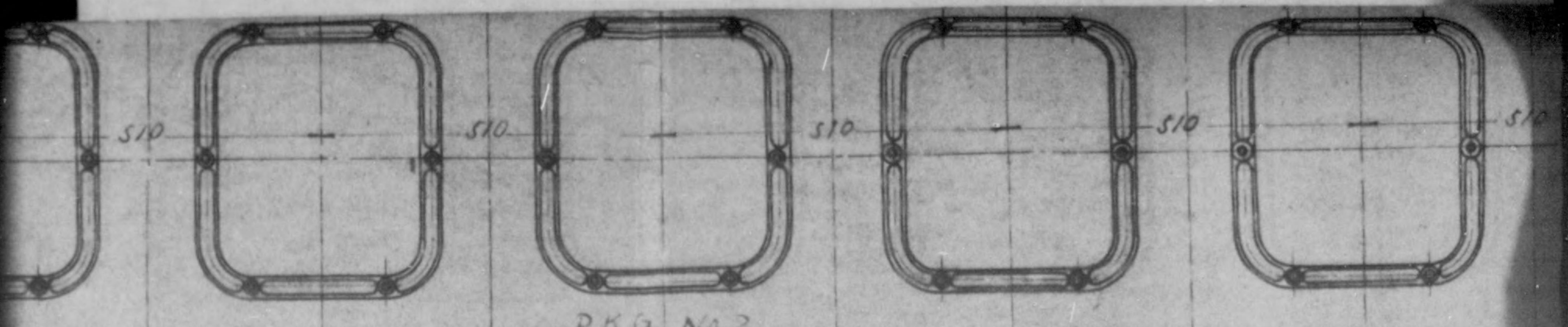


RKG No. 12



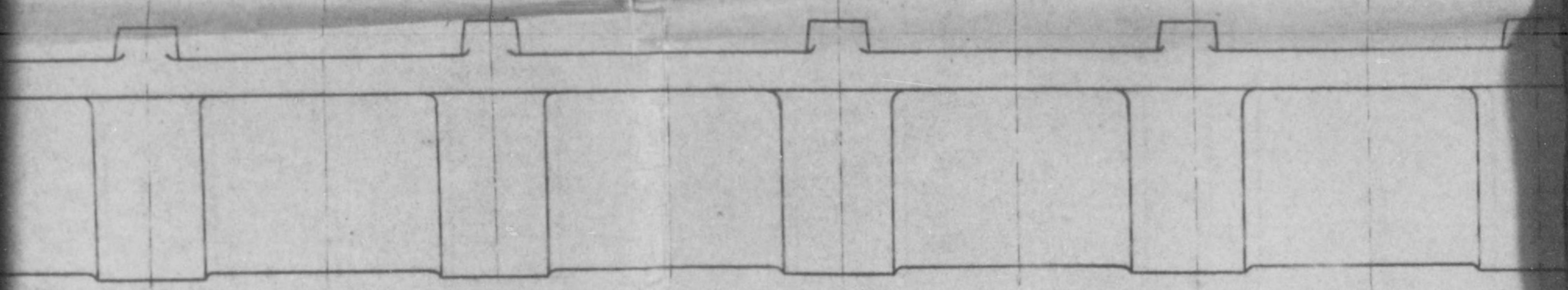
385 75 510 510





P.K.G. No. 2

P.K.G. No. 1



510

510

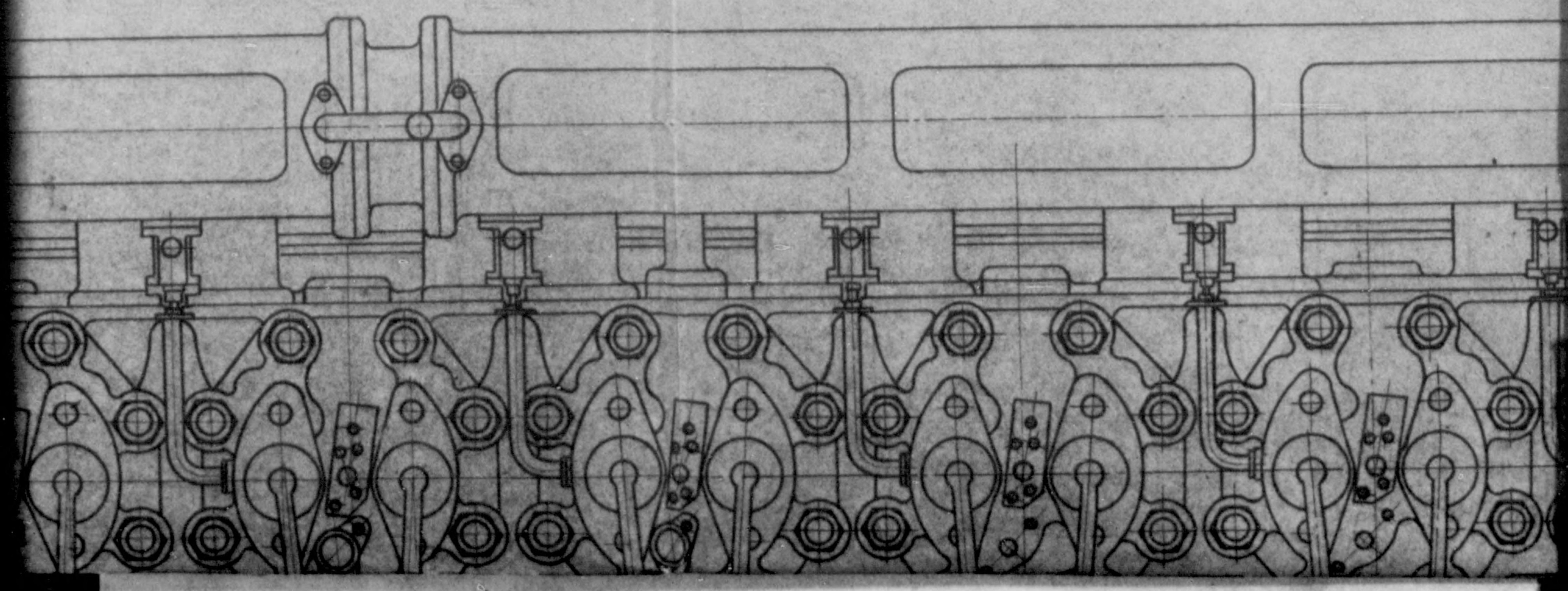
510

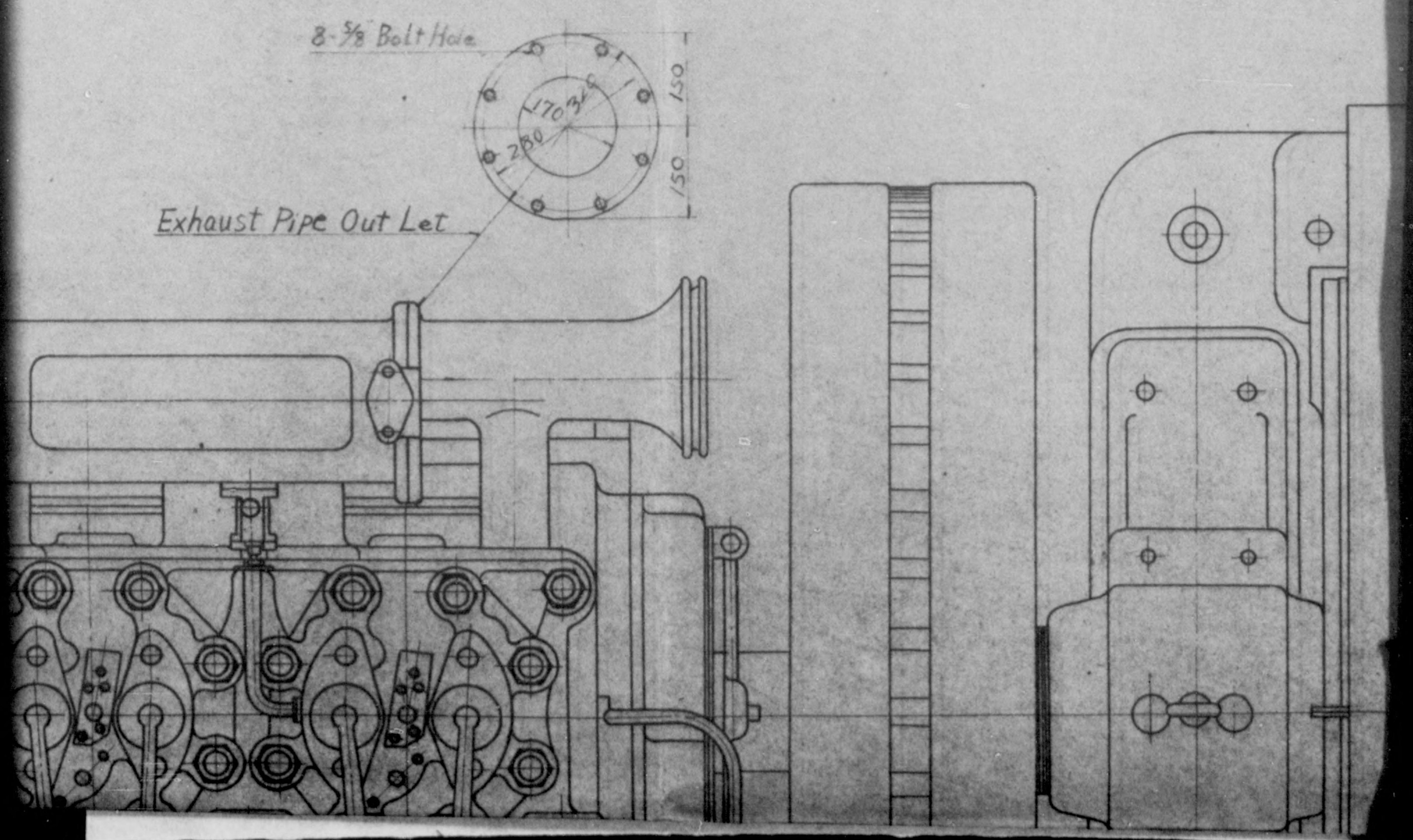
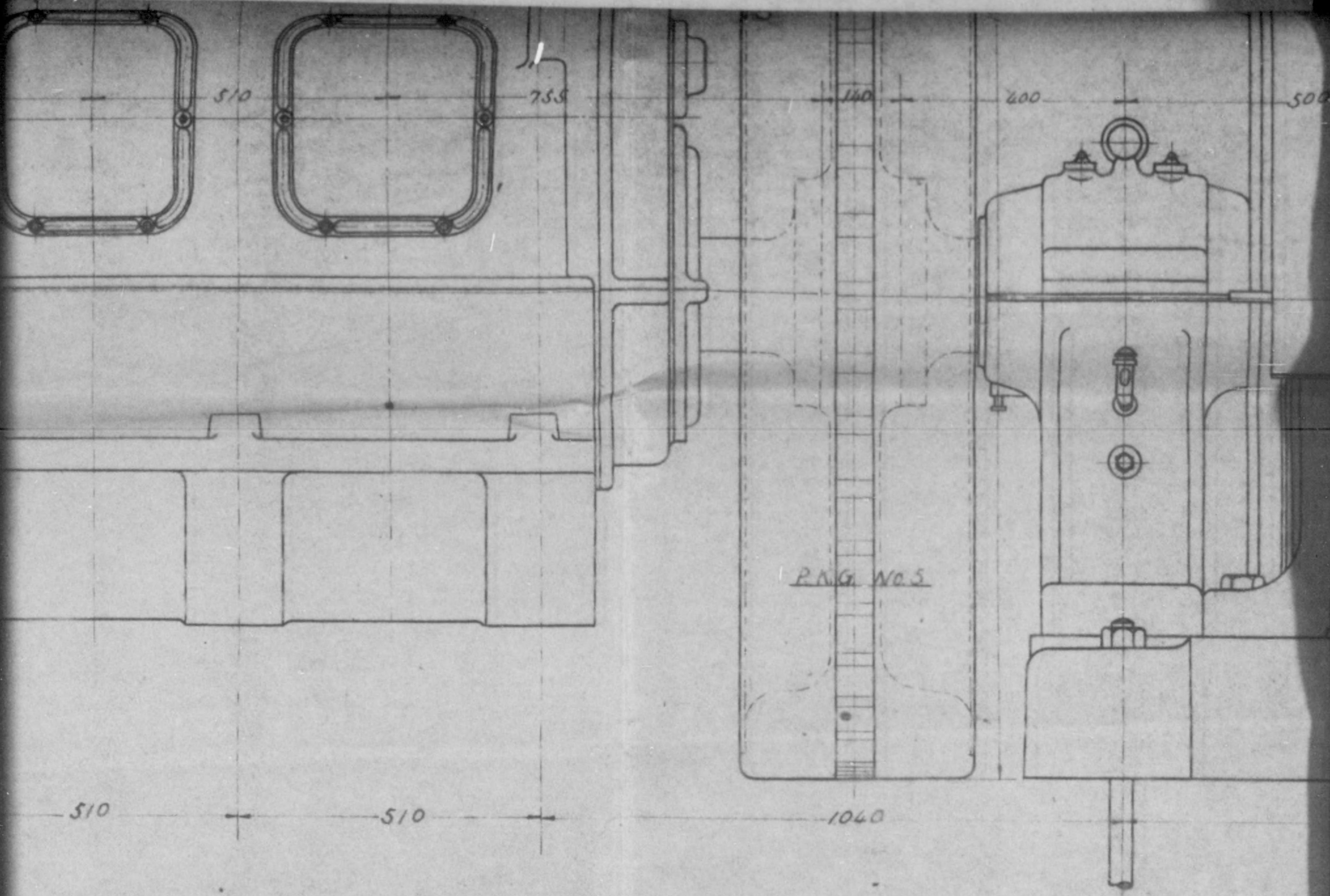
510

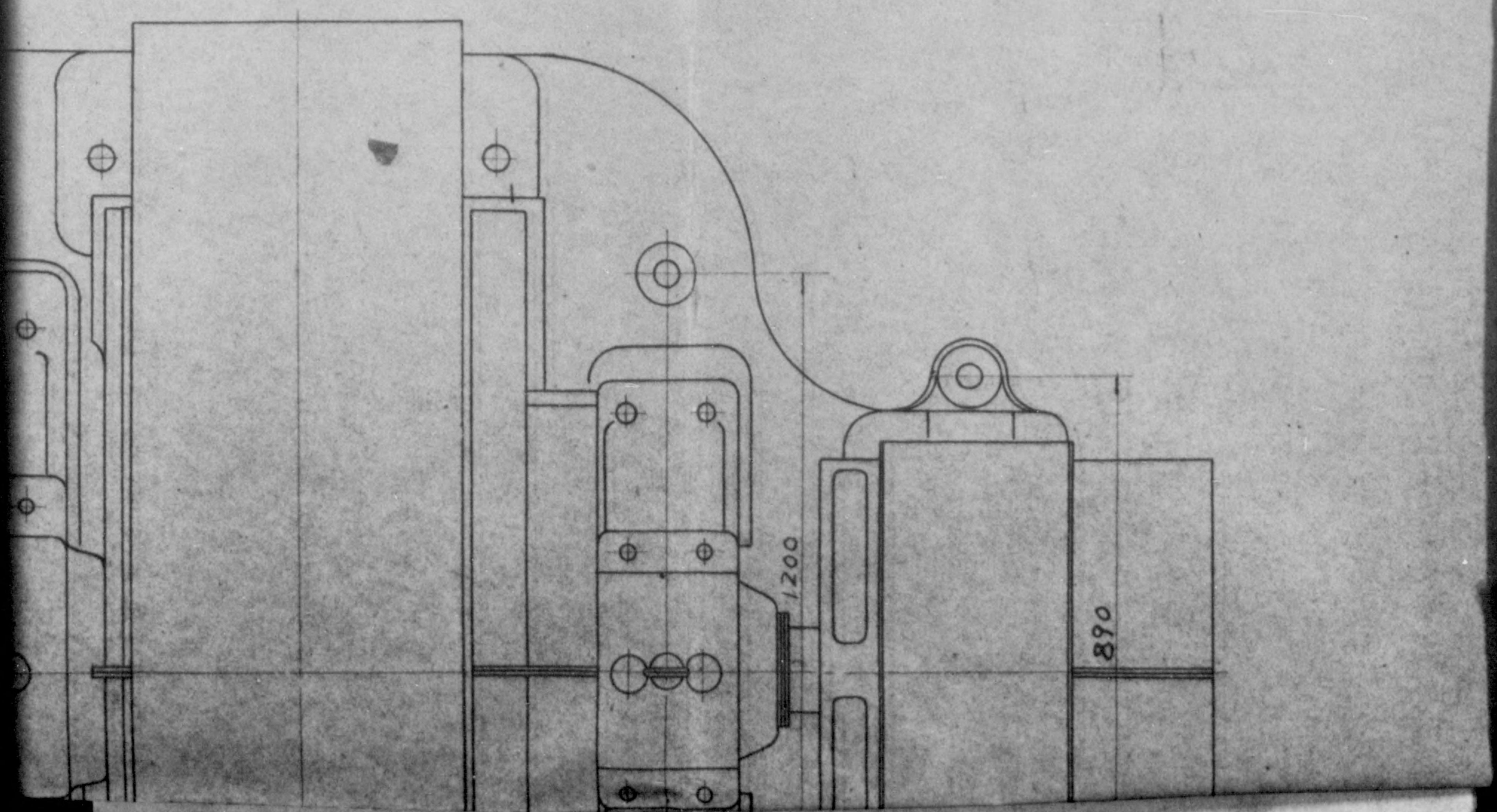
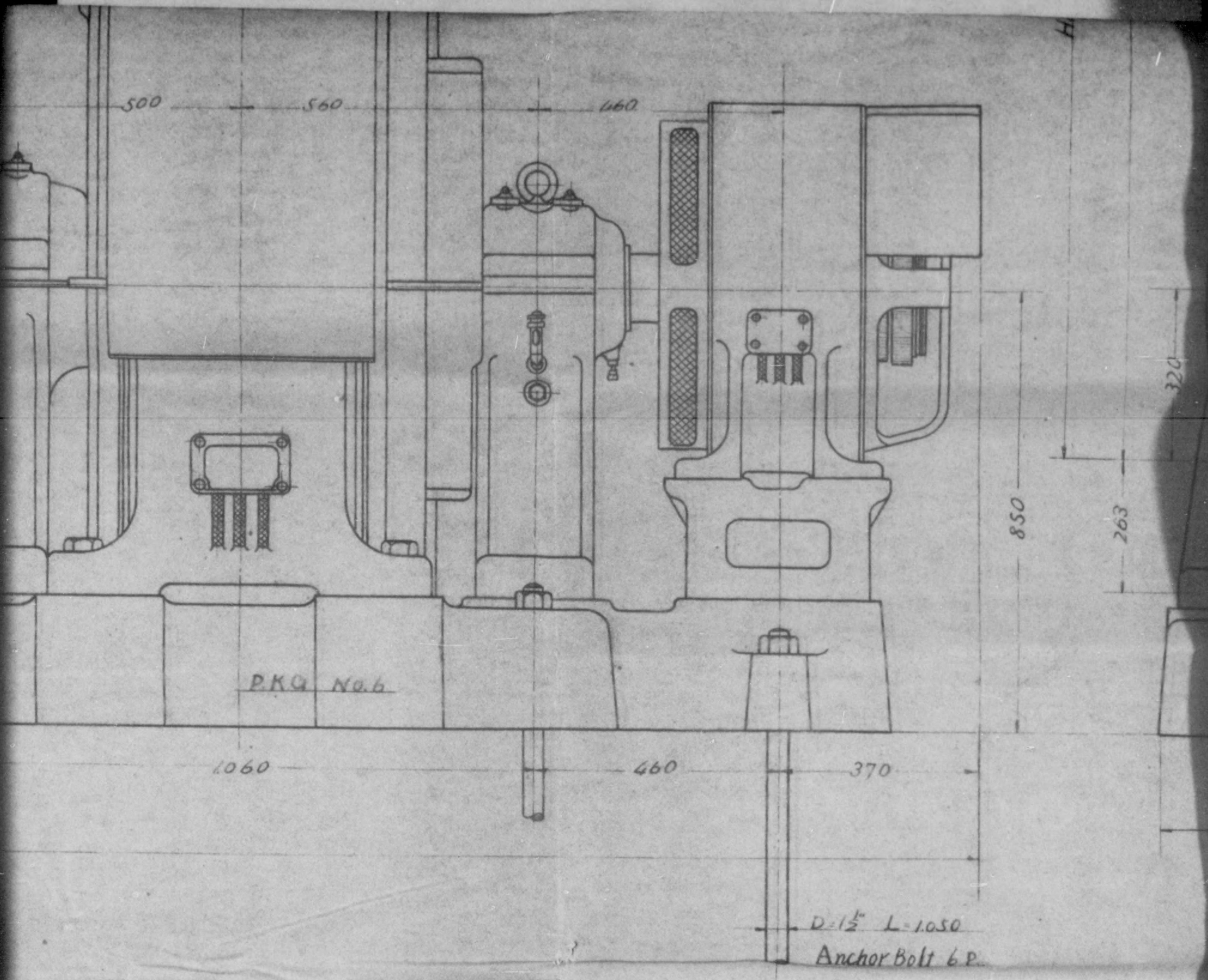
7100

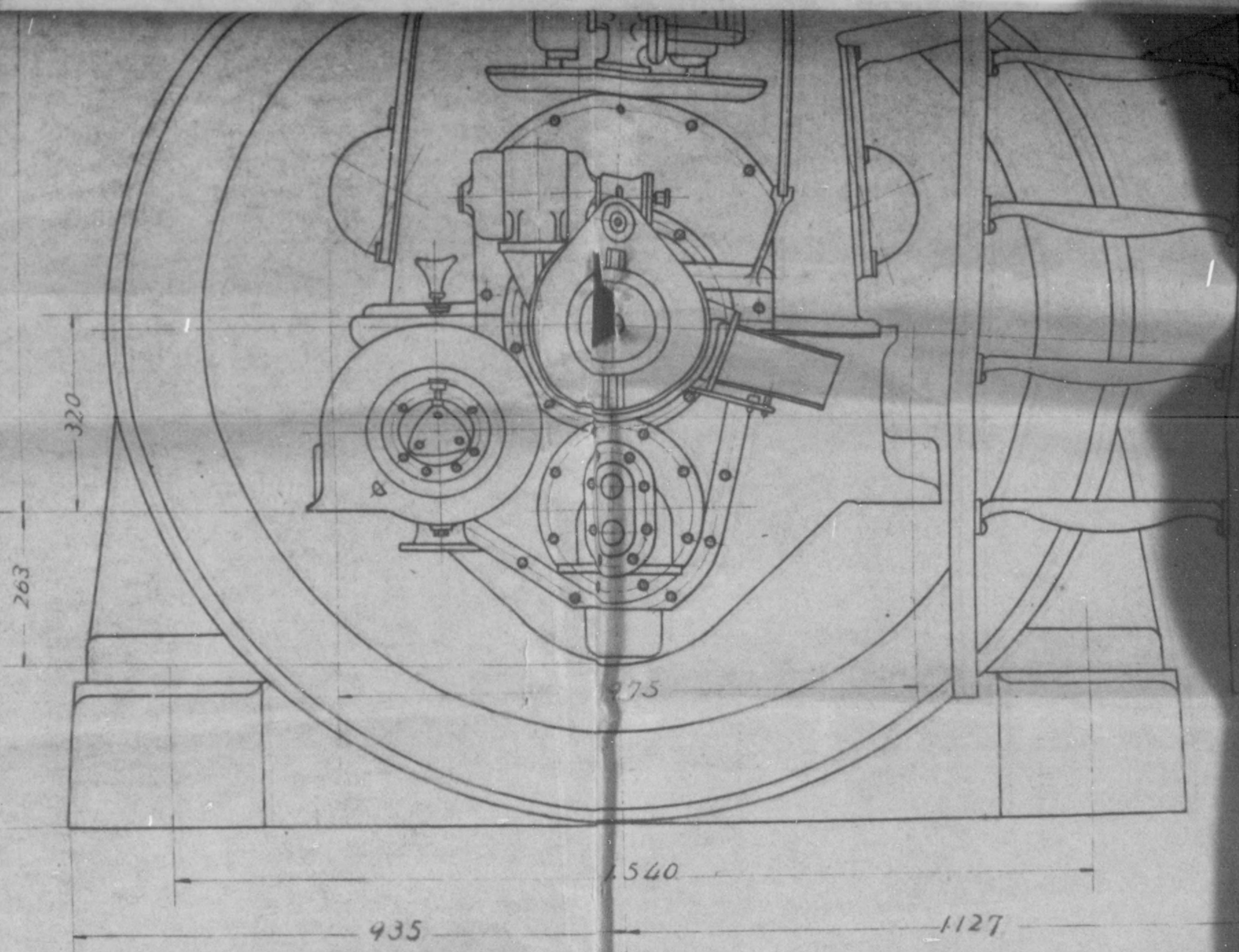
pc)

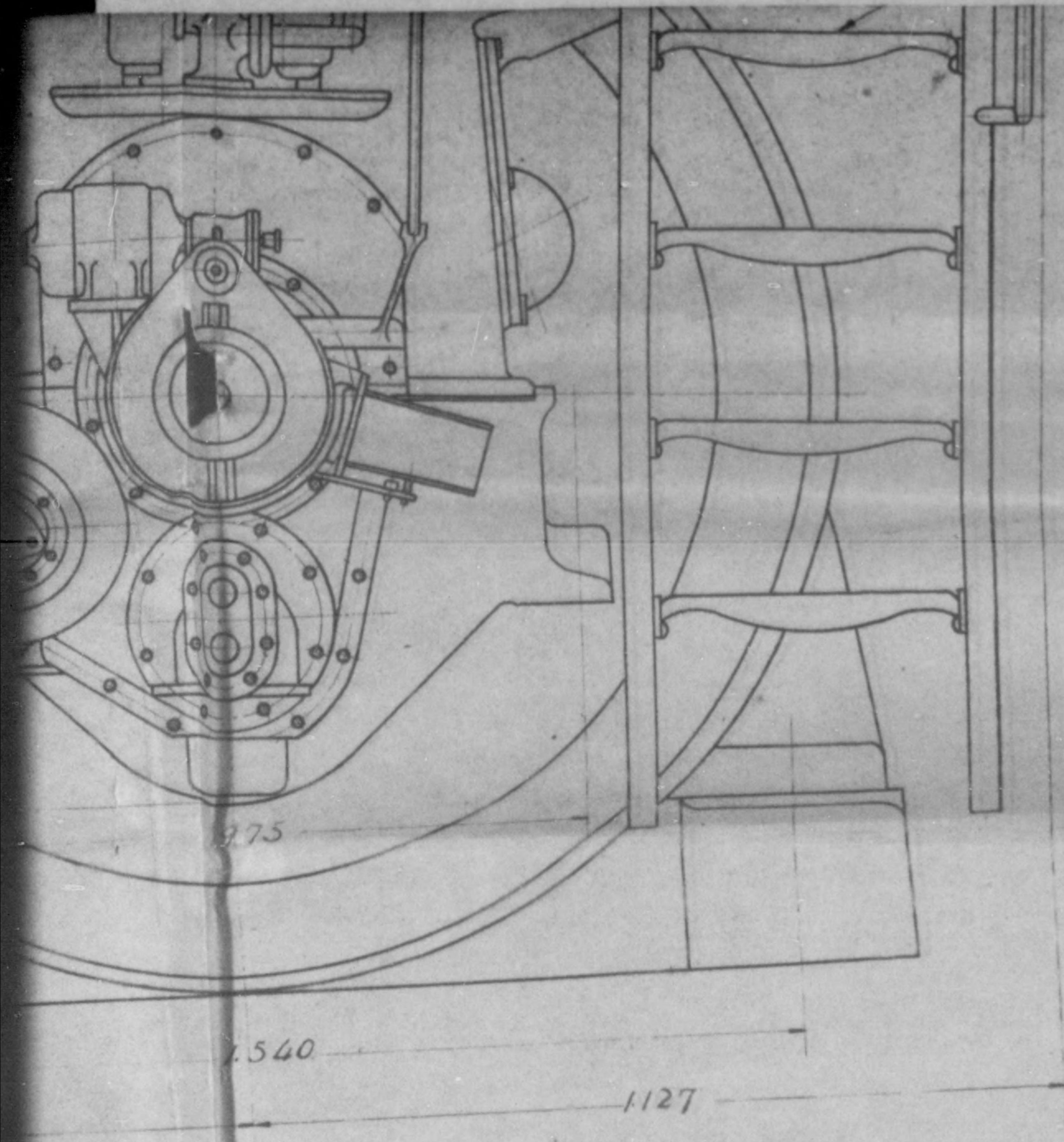
Exhaust

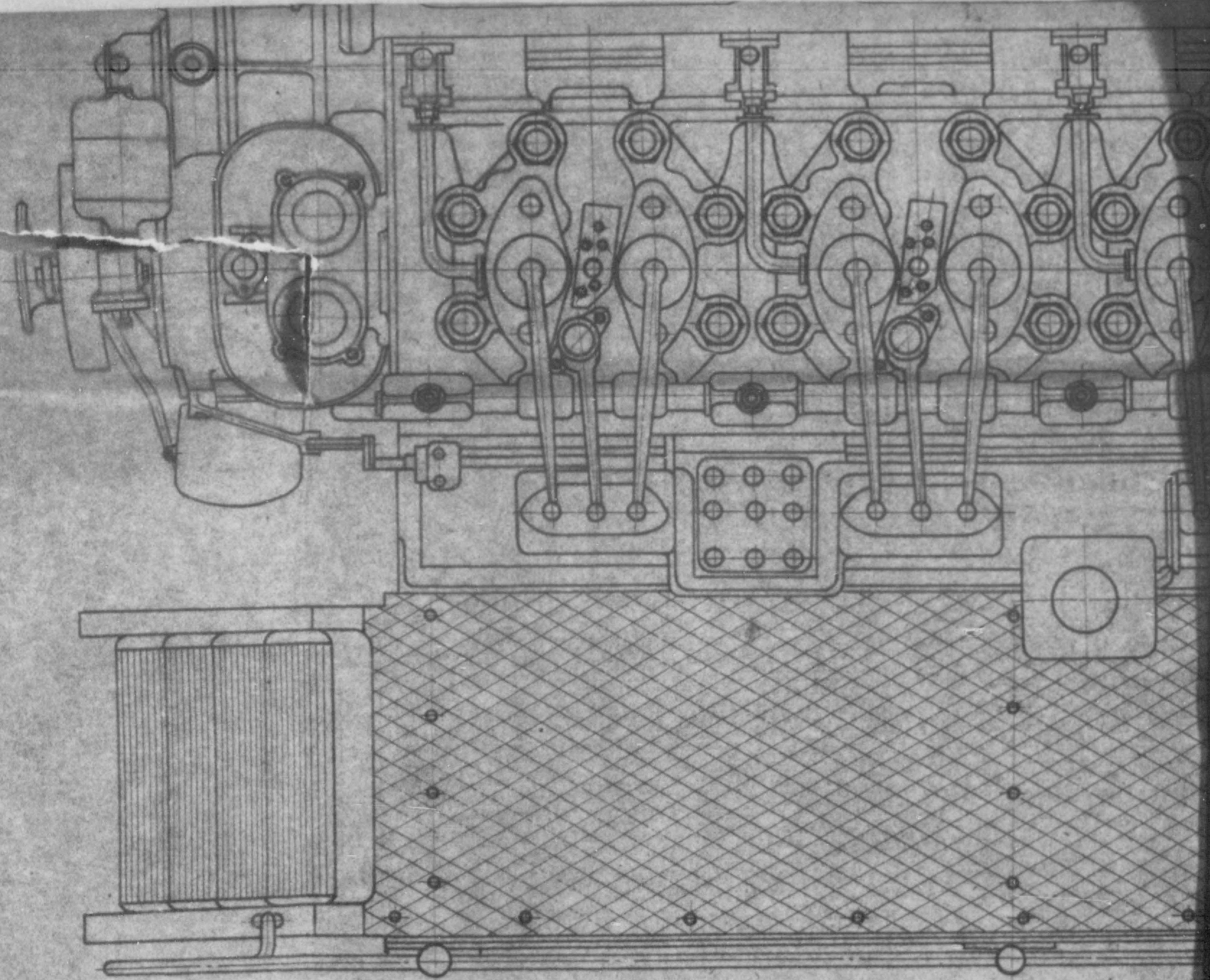


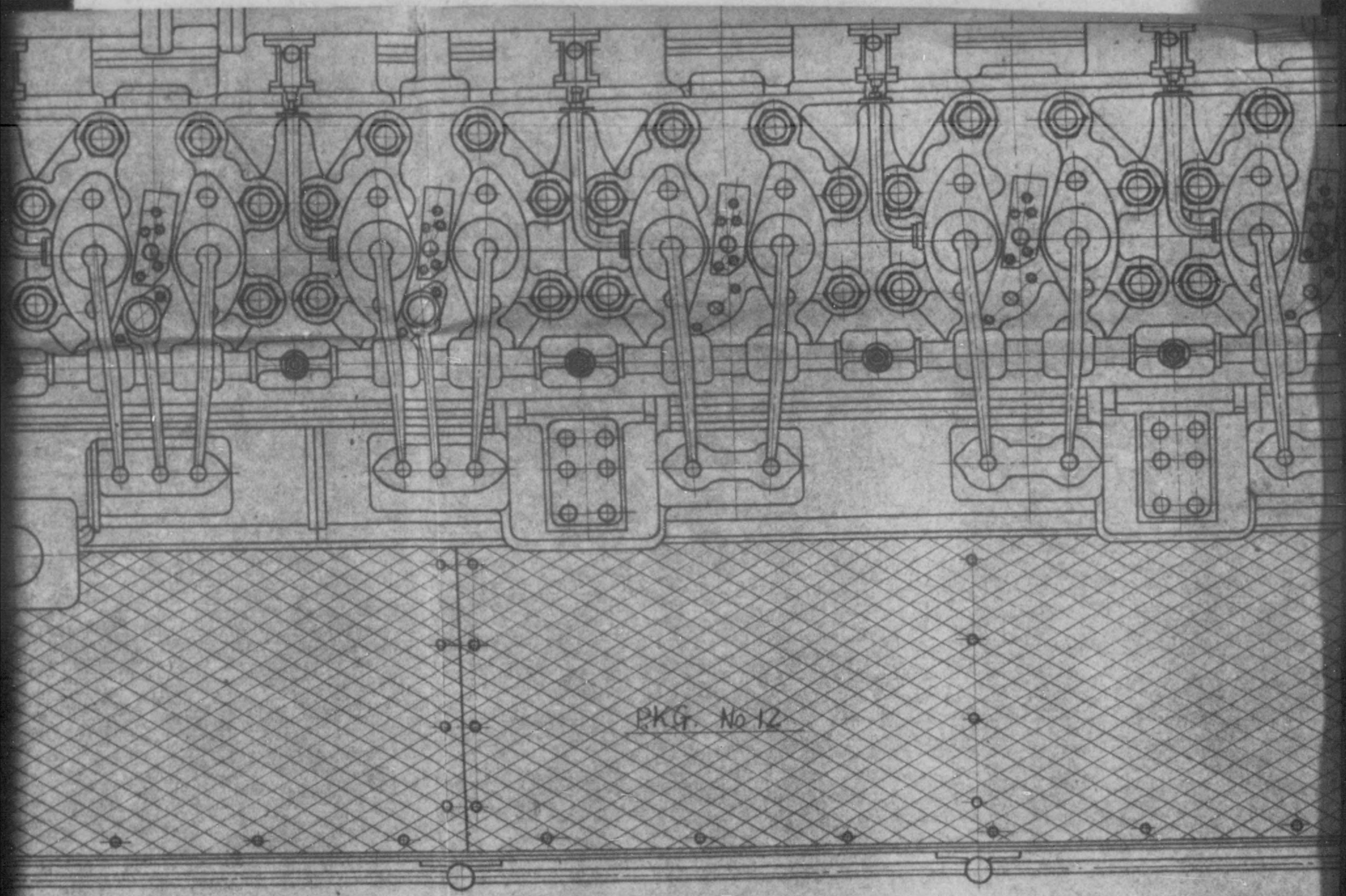


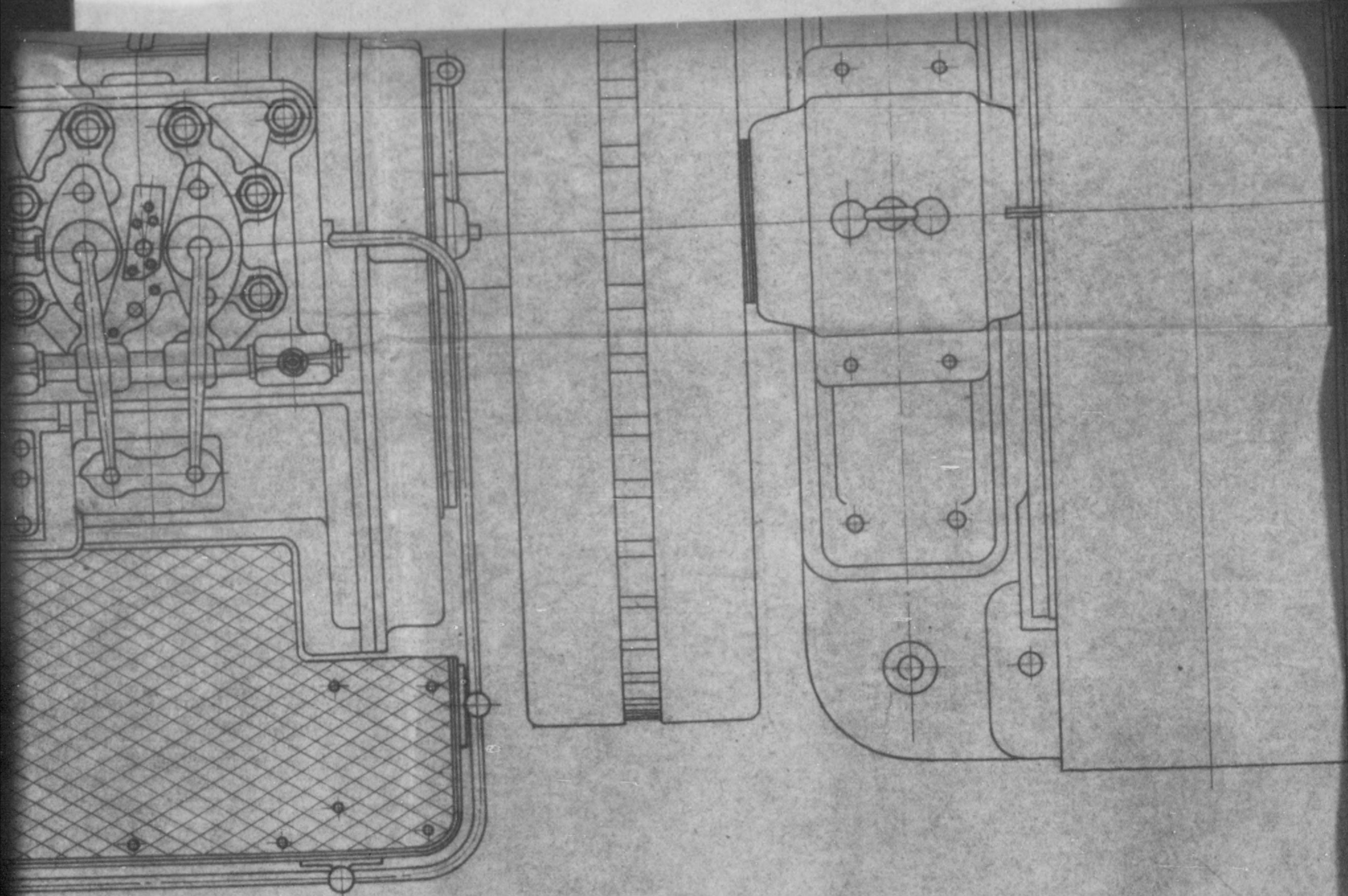


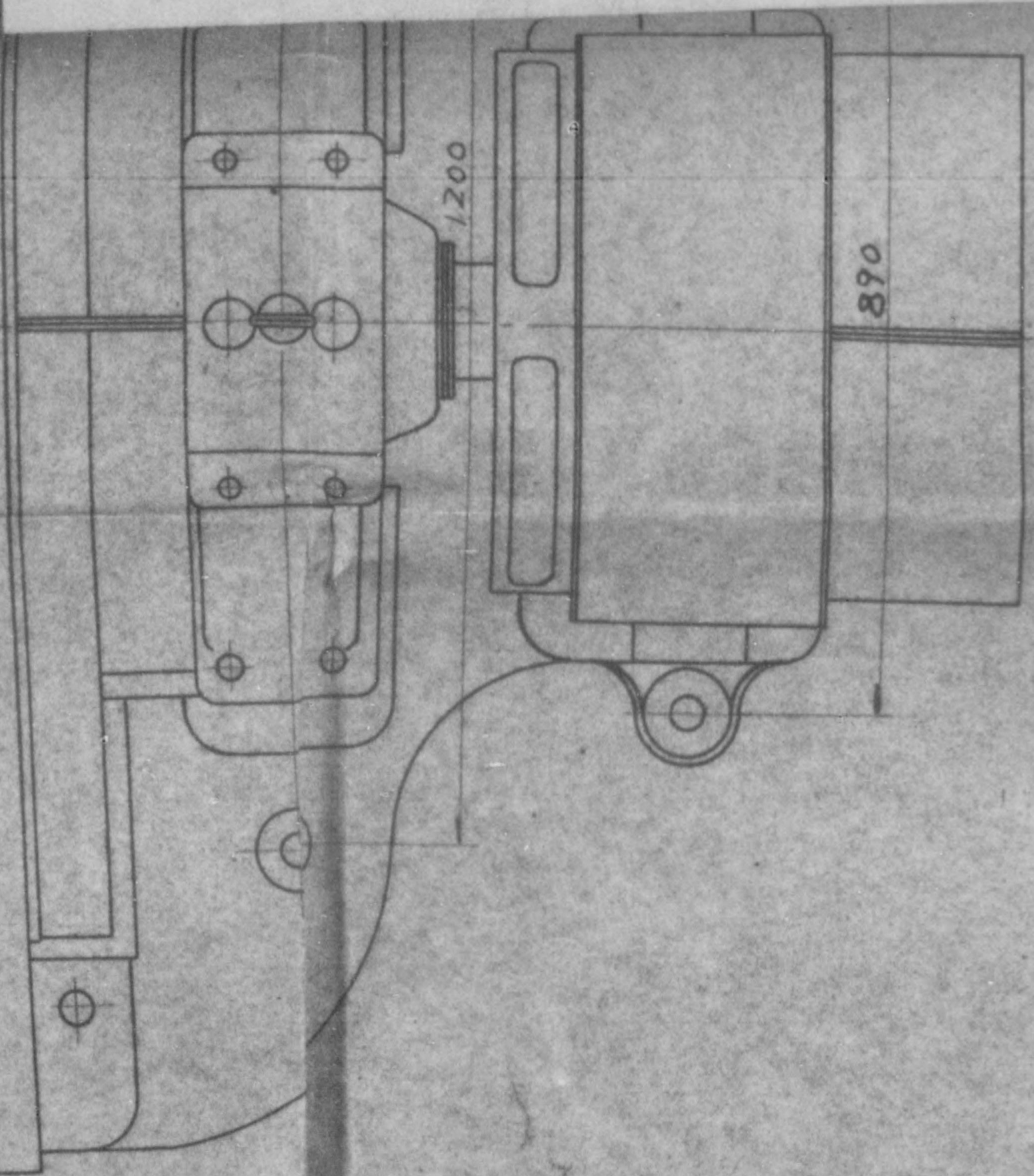












Main	
Diesel Engine	
Horse Power	360
Bore	280
Stroke	450
No. of Cyl.	7
R.P.M	375
Weight	Kg
Gross Wt. (Engine)	

n Specification

	3PH A.C Generator	D.C. Excitor
HP	Capacity 250 KVA	7.5 KVA
im	Voltage 3300 V	110 V
	Current 43.8 A	6.8 A
	Frequency 50 ~	
	No. of Pole 16	
kg	Weight 5000 Kg	470 Kg
ne. Generator. Bed cot) ~		33,23 \$

3 Phase A.C Generator	
Complete.	
Chart - I	Seeale. 1:10.