DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

BLDG. NO. 7 PATTERN WORK SHOP

NO. OF MACHINE	NAME OF MACHINE	SIZE	MANUFACTURER	YEAR OF MANUF.	CONDITION
273 (625)	Geared Motor	10 HP	Meidensha	1937	A

TOTAL.....1 IN UNITS

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

BLDG. NO. 8 STORE HOUSE(SAWING SHOP)

NO. OF MACHINE		NAME OF MACHINE	SIZE	MANUFACTURER	YEAR OF MANUF.	CONDITION
274	(232)	Sewing Maeine	14"	Toyokikai	1939	A
275	(233)	"	"	"	"	A

TOTAL .....2 IN UNITS

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

BLDG. NO. 9 ELECTRIC SUBSTSTION

NO. OF MACHINE		NAME OF MACHINE	SIZE	MANUFACTURER	YEAR OF MANUF.	CONDIT ION
276	(613)	Transformer	40 KVA	Meidensha	1941	A
277	(614)	"	"	"	"	A
278	(615)	"	"	"	"	A
279	(617)	"	20 KVA	"	"	A
280	(621)	"	15 KVA	Osaka-henatsuki	"	A
281	(629)	Switch Board (receiving)	high voltage	Hirozawa	1944	A
282	(630)	" (supplying)	"	"	"	A
283	(631)	"	"	"	"	A
284	(632)	"	"	"	"	A
285	(633)	"	"	"	"	A
286	(634)	"	"	"	"	A
287	(635)	"	"	"	"	A
288	(636)	"	"	"	"	A
289	(637)	" (for operating condenser)	"	"	"	A
290	(638)	" (for operating power)	low voltage	"	"	A
291	(639)	" (for operating lamps)	"	"	"	A

TOTAL.....16 IN UNITS

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

BLDG. NO. 10 BOILER ROOM

NO. OF MACHINE		NAME OF MACHINE	SIZE	MANUFACTURER	YEAR OF MANUF.	CONDITION
292	(544)	Boiler (Tsunekichi Type)	B-70	Takuma	1945	C
293	(550)	"	"	"	"	C

TOTAL.....2 IN UNITS

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

BLDG. NO. 26 FORGING SHOP

NO. OF MACHINE	NAME OF MACHINE	SIZE	MANUFACTURER	YEAR OF MANUF.	CONDITION
294 (549)	Turbo-blower	2 HP	Ebara	1944	A

TOTAL. .....1 IN UNITS

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

File
Toyama

TOYAMA PLANT
EBARA MFG CO LTD

23 January, 1950

SUBJECT: Report on Cessation of Use of designated reparations equipment.

TO : The Chief of Economic Section, Tokai-Hokuriku Civil Affairs Team.

FROM : Toyama Plant, Ebara Mfg. Co., Ltd.

THRU : Governor, Toyama-ken.

1. Name of the Plant:

Toyama Plant, Ebara Mfg. Co., Ltd.

2. Location of the Plant:

200 Mukai-Shinjo, Toyama City, Toyama Pref.

3. Date of designation:

3 December, 1946

4. Date of permission for Conversion:

5 October, 1946

5. Item and quantity of products permitted to manufacture:

Pumps and Pump Parts 300 sets per month

6. Date of cessation of the plant :

1 January, 1950

7. Reason why the Plant ceased to operate:

After 1943 when we took over this plant from the former proprietor we have been engaged in manufacturing pumps,

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

instead of machine tools which were produced by that time. Since 1948, however, the amount of sale has decreased gradually and consequently the dead stocks of products has accumulated month by month which resulted in tightness of money.

In the meantime we tried with all efforts to convert to a new production, but we only found it impossible to do so owing to severe depression of economical and financial circles, and were compelled finally to determine to crose our plant in September last year.

Since then we were engaged in completing Some semi-products and other remaining business which were finished during last year and, on and after the first day of this year we ceased to operate the whole machinery and equipment designated as reparations items perfectly.

Such being the case we beg to you to confirm the fact that all the afore-said machinery and equipment are not in use at present.

(END)

Confirmed
~~APPROVED~~
E. F. Jouard by Y. Yamamoto
E. F. Jouard DAC
Economics Div. THCAR
Date 6 Feb. 50

Signature Kitaro Kunihara
(Kitaro Kunihara)

Custodian of the Toyama Plant.

Confirmed by Shuichi-Endo, Deputy Commissioner,
Commerce and Industry Bur. of Toyama-Kenchō.
25. January. 1950.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

COPY

TOYAMA

MILITARY GOVERNMENT TEAM

APO 713

Date: 5 October 1946

SUBJECT: Permit for Operation

To: Ebara Seisakusho, Toyama Plant

1. This permit grants authority only to operate, The acquisition of materials, parts, and sub-assemblies, as well as the disposition of finished products and establishment of sales prices, will be in accord with the regulation of the Imperial Japanese Government.

For THE COMMANDING OFFICER:

EUGENE MOSS

Capt. CAC
Industry officer

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

HEADQUARTERS
TOYAMA CIVIL AFFAIRS TEAM
APO 301

004

30 September 1949

SUBJECT: Release of Land and Buildings from Reparational Control and Custody

TO : Governor, Toyama Ken

1. Application for the exclusion of land and buildings from reparational control and custody for (117,480 Sq Ft of Land and 58,035 Sq Ft of Buildings) of the Ebara Mfg Co., Ltd code # 42-24 is hereby granted.

2. Ref. is made to memorandun No 10 Hq Tokai-Hokuriku Civil Affairs Region, Subject: "Release of Land and Buildings from Reparational Control and Custody", dtd 30 Aug 49. and ref. OD 21 par 2c and OD 21/1 par 2c (49).

BY ORDER OF THE CHIEF:

JULIUS A. KNIGHT
Captain, Ord
Econcomics Officer

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

TOYAMA PLANT
EBARA MFG. CO., LTD.

Date: Sept. 30, 1949

To: Toyama Civil Affairs Team

APPLICATION FOR EXEMPTION Of DESIGNATED ITEMS OTHER THAN INVENTORIED MACHINERY

1. Number of Plant: 42-24
2. Industrial Category: Machine Tool
3. Name of Plant: Toyama Plant, Ebara Mfg. Co., Ltd.
4. Location: 200, Mukai-shinjo, Toyama City
5. Items for exemption of designation:
   a. Land 1,534,460 sq.ft. (vide annexed sheet No.1)
   b. Buildings numbers 30, Bldg. area 60,306 sq.ft.
   (vide annexed sheet No.2)
6. Reason of application for exemption:

Land and buildings above mentiend being dispensable for keep and maintenance of reparations machinery and equipment inventoried, we hope to make these items more useful for restoration of Japanese industries.

Signature.....Teinosuke Ando.....
(Teinosuke Ando)

Director and Manager of
Toyama Plant

Land 117,480 Sq ft
Buildings 58,035 " "

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

(annexed sheet No.1)

LAND

SERIAL NO.	EVALUATION NO.	AREA(SQ.Ft.)	LOCATION	REMARKS
1	42-24-G-1	417,054	200, Mukai-shinjo, Toyama City	
2	42-24-G-2	173,942	"	
3	42-24-G-3	26,237	146, Mukai-shinjo, Toyama City	
4	42-24-G-4	882,987	"	
5	42024-G-5	21,075	"	
6	42-24-G-6	3,453	Higashi-dengigata, Toyama City	
7	42-24-G-7	1,566	"	
8	42-24-G-8	2,456	Inarimachi, Toyama City	
9	42-24-G-9	4,004	"	
10	42-24-G-10	1,032	"	
Total		1,534,400		

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

(annexed sheet No.2)

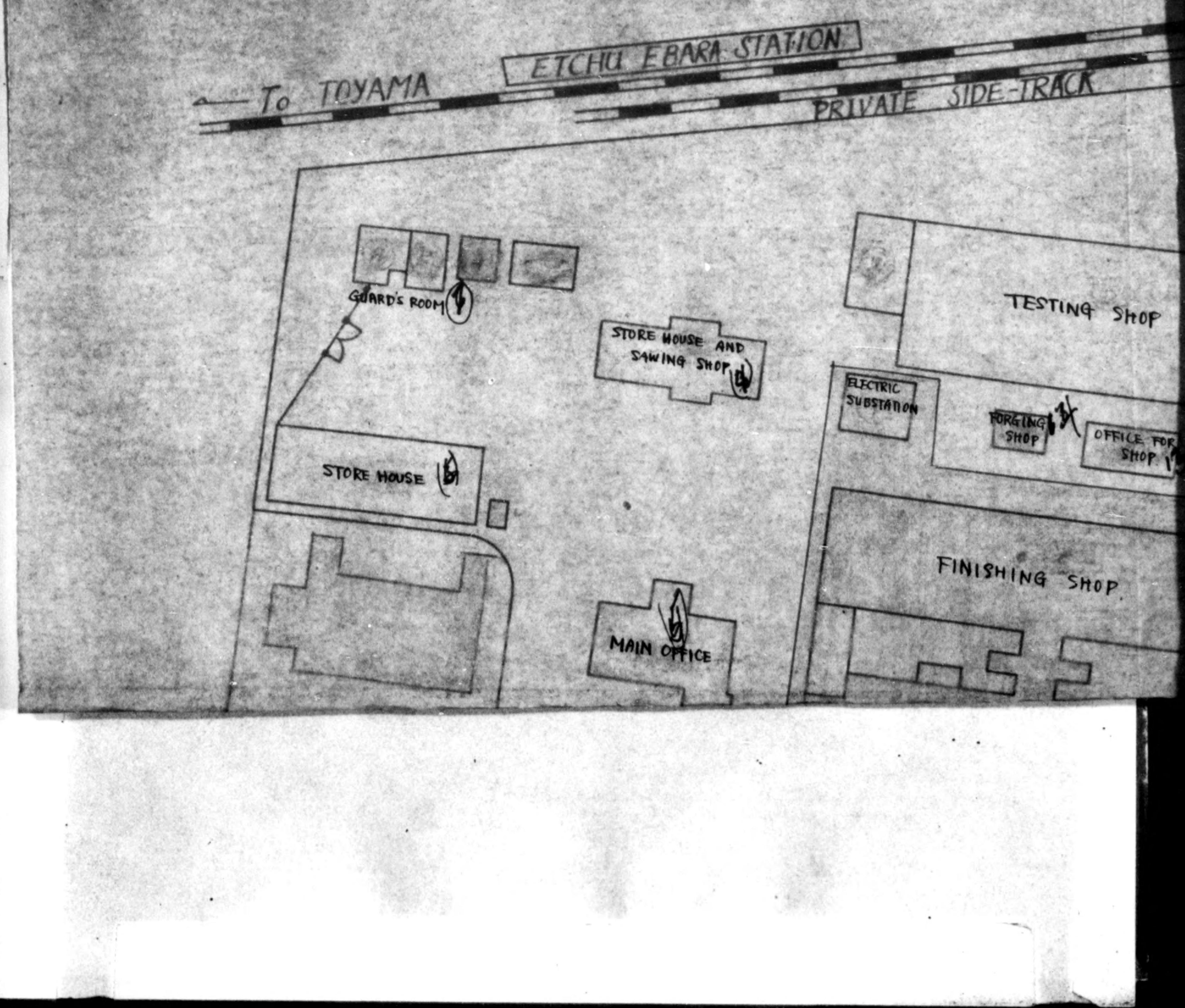
BUILDINGS

SERIAL NO.	EVALUATION NO.	BLDG. AREA (SQ.FT.)	NAME OF BUILDING	REMARKS
1	42-24-F-5	9,932	Testing shop	
2	42-24-F-7	4,984	Pattern works shop	
3	42-24-F-8	1,816	Storehouse & Sawing shop	
4	42-24-F-10	4,416	Main office	
5	42-24-F-11	748	Office for shop ·	
6	42-24-F-12	427	Storehouse	
7	42-24-F-13	498	Garage	
8	42-24-F-14	1,246	Guards room & Dispensary	
9	42-24-F-15	2,492	Storehouse	
10	42-24-F-16	2,777	Dinning hall	
11	42-24-F-17	1,246	Bath house	
12	42-24-F-18	890	Boiler room	
13	42-24-F-19	427	Storehouse for oil	
14	42-24-F-20	107	Storehouse for papers	
15	42-24-F-21	1,709	Steel bar yard	
16	42-24-F-23	570	Forging shop	
17	42-24-F-24	534	Scrap yard	
18	42-24-F-25	350	Storehouse	
19	42-24-F-26	4,272	Dormitory	
20	42-24-F-27	4,272	"	
21	42-24-F-28	1,886	"	
22	42-24-F-29	2,527	School for apprentice	
23	42-24-F-30	2,598	Dependent houses	
24	42-24-F-31	6,372	"	
25	42-24-F-32	3,204	"	
	Total	60,306		

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

OUTLINE

THE



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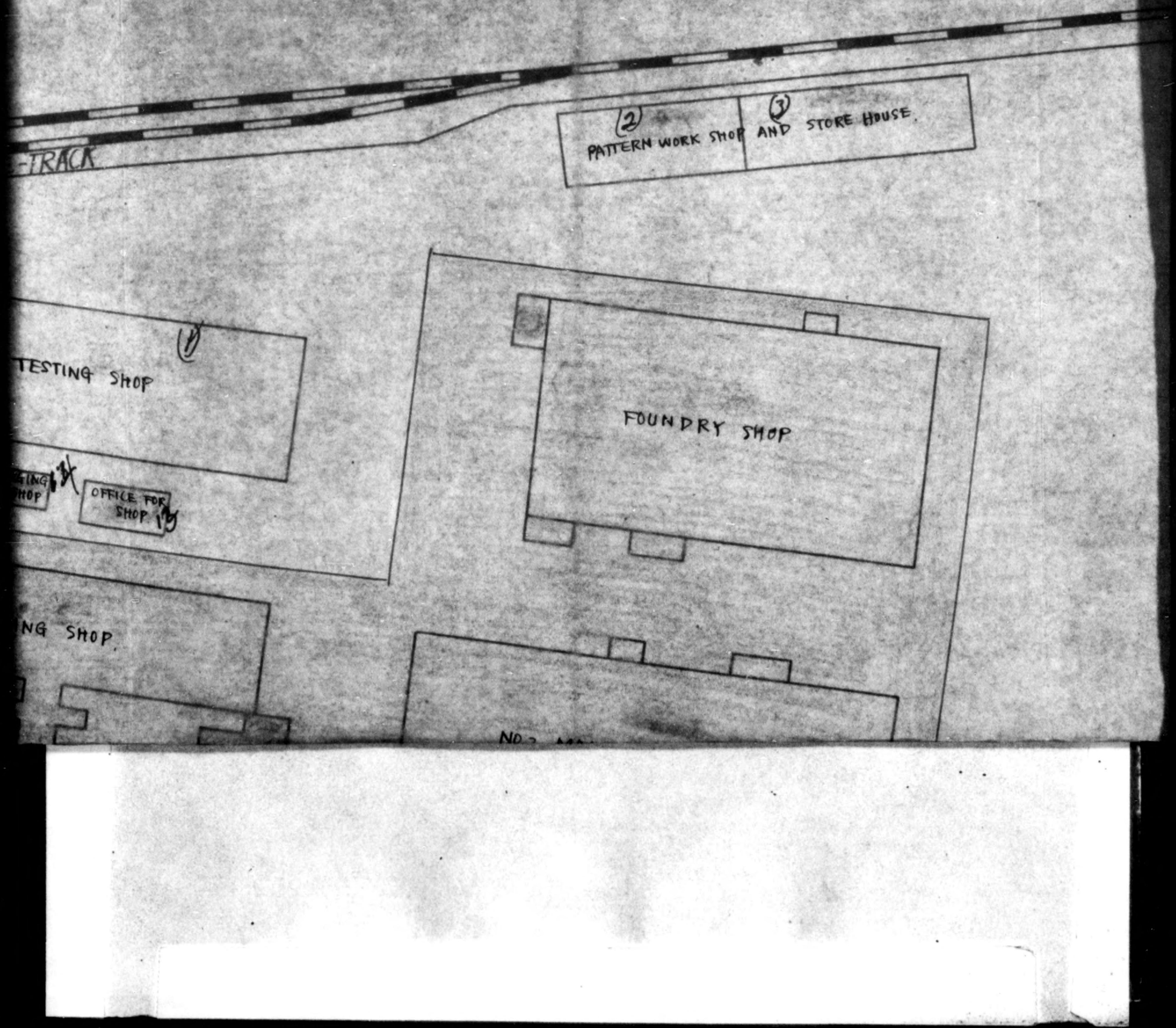
NE SKETCH OF TOYAMA PLANT
THE EBARA MFG. CO., LTD.



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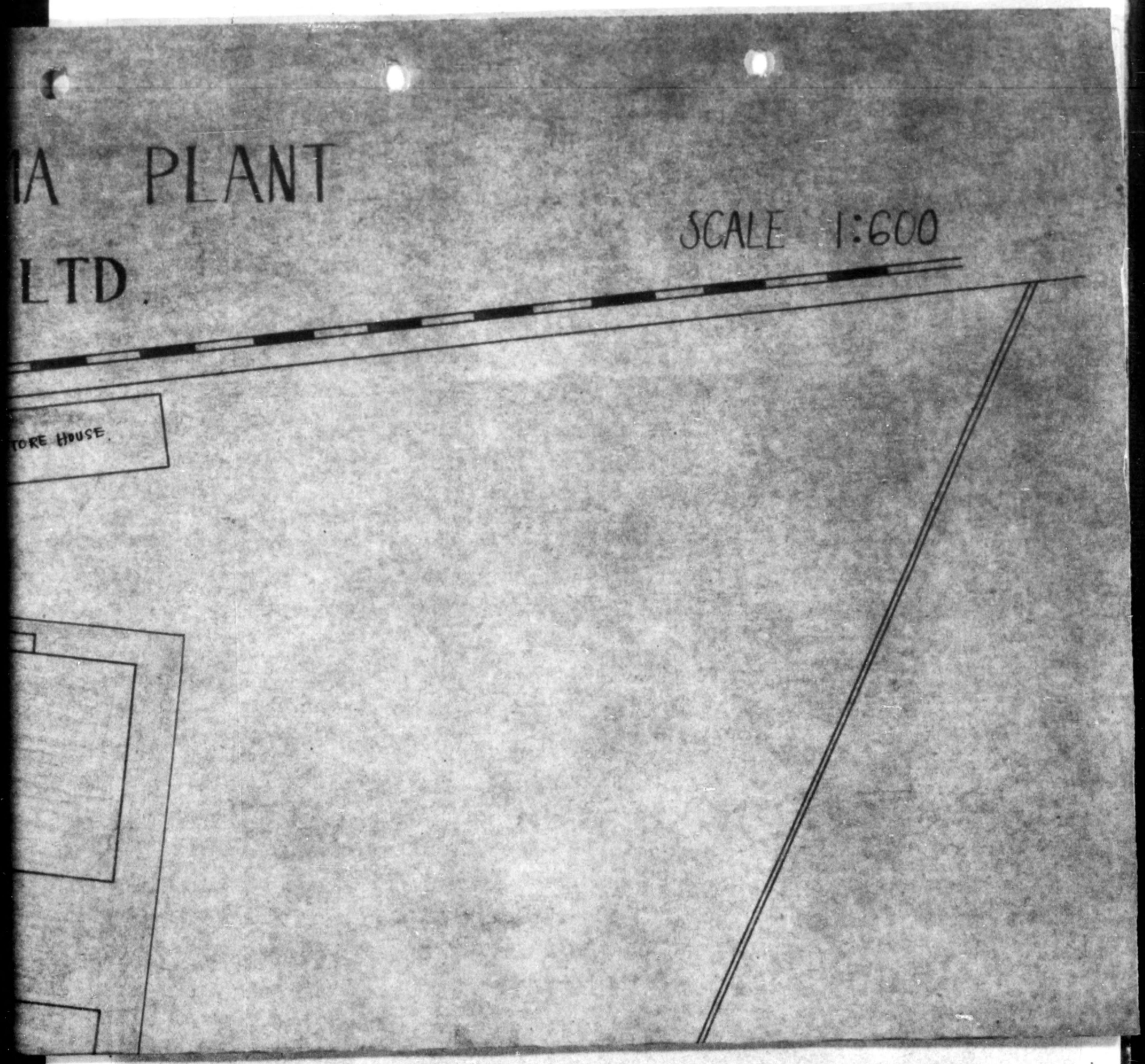

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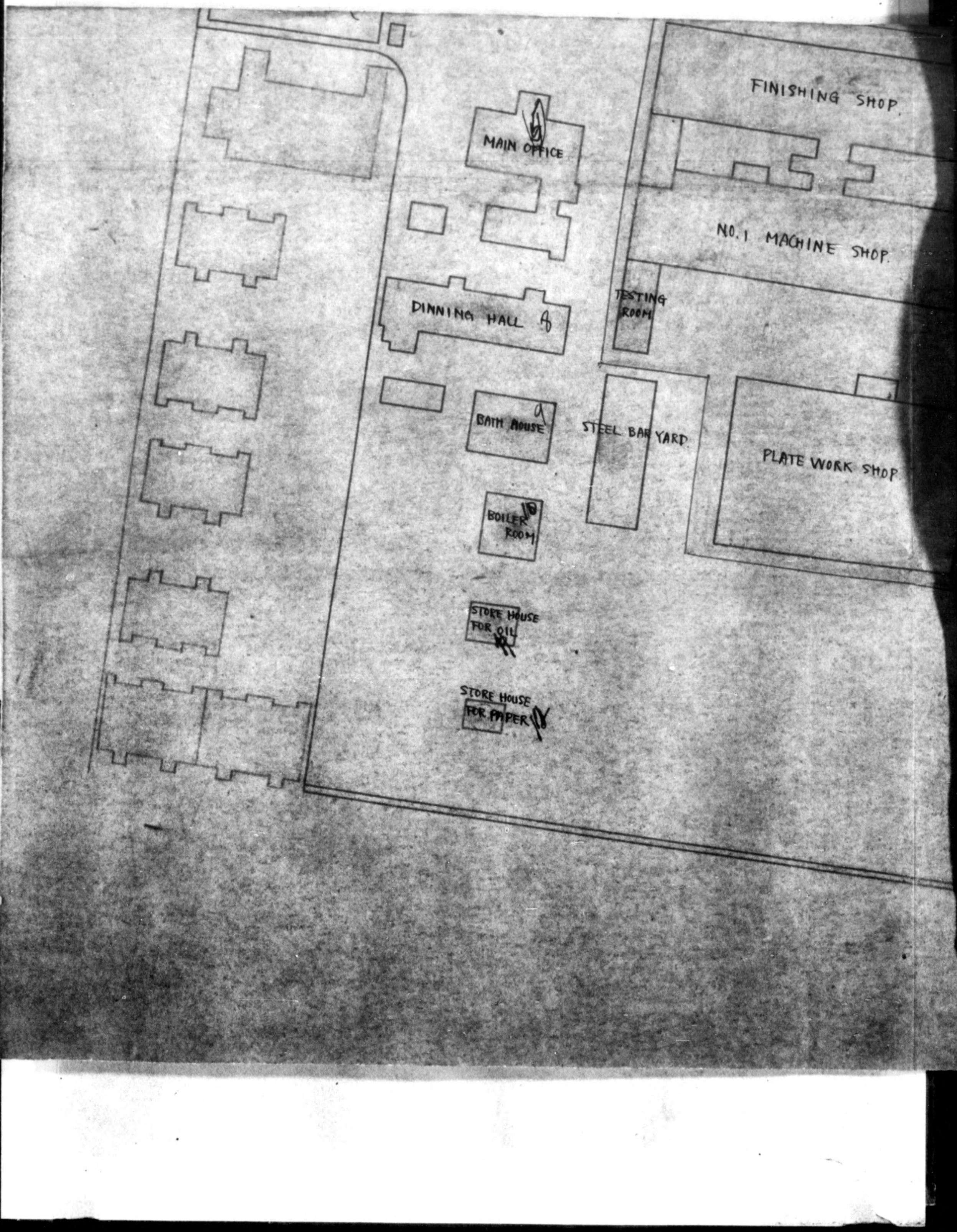

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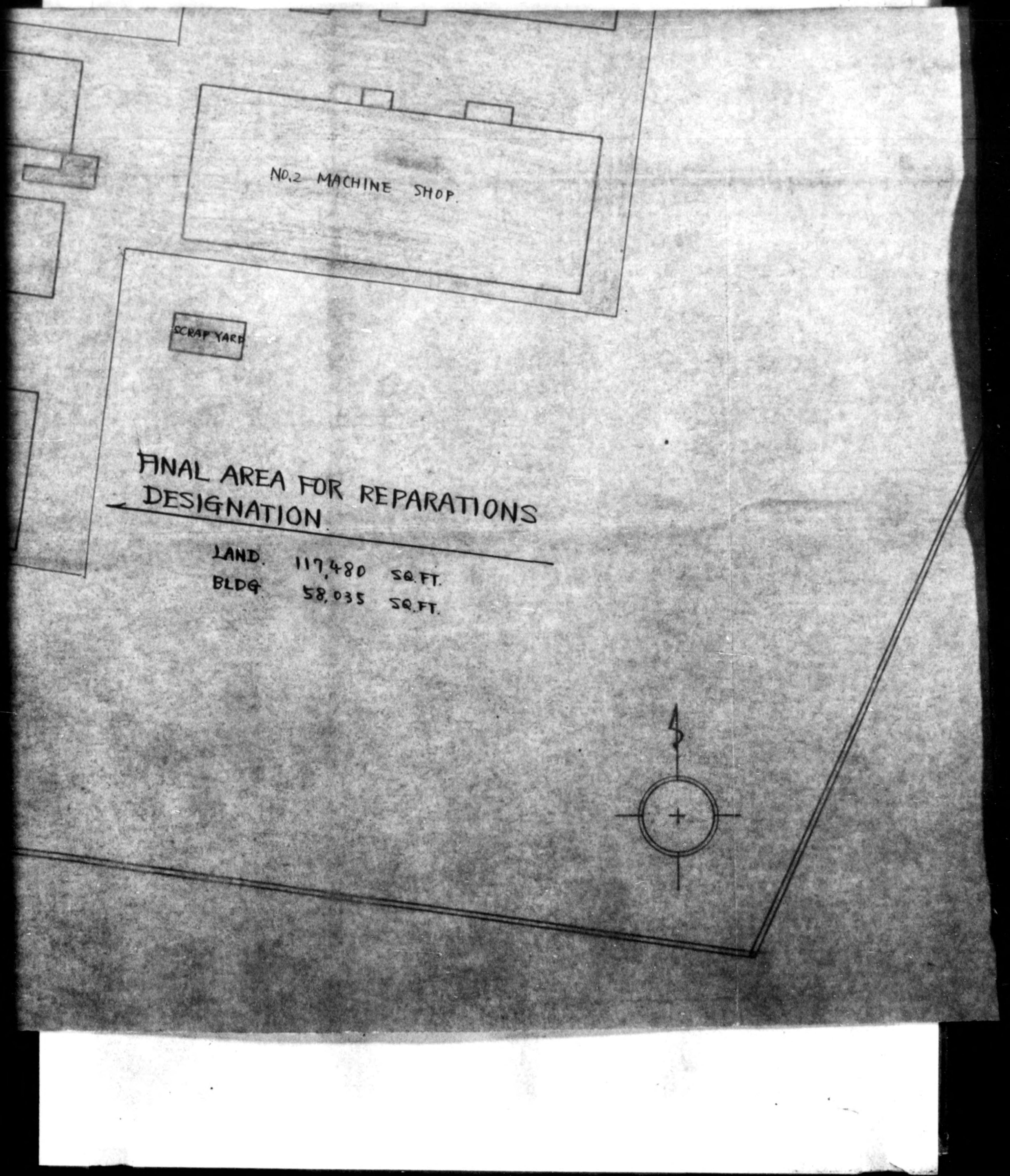

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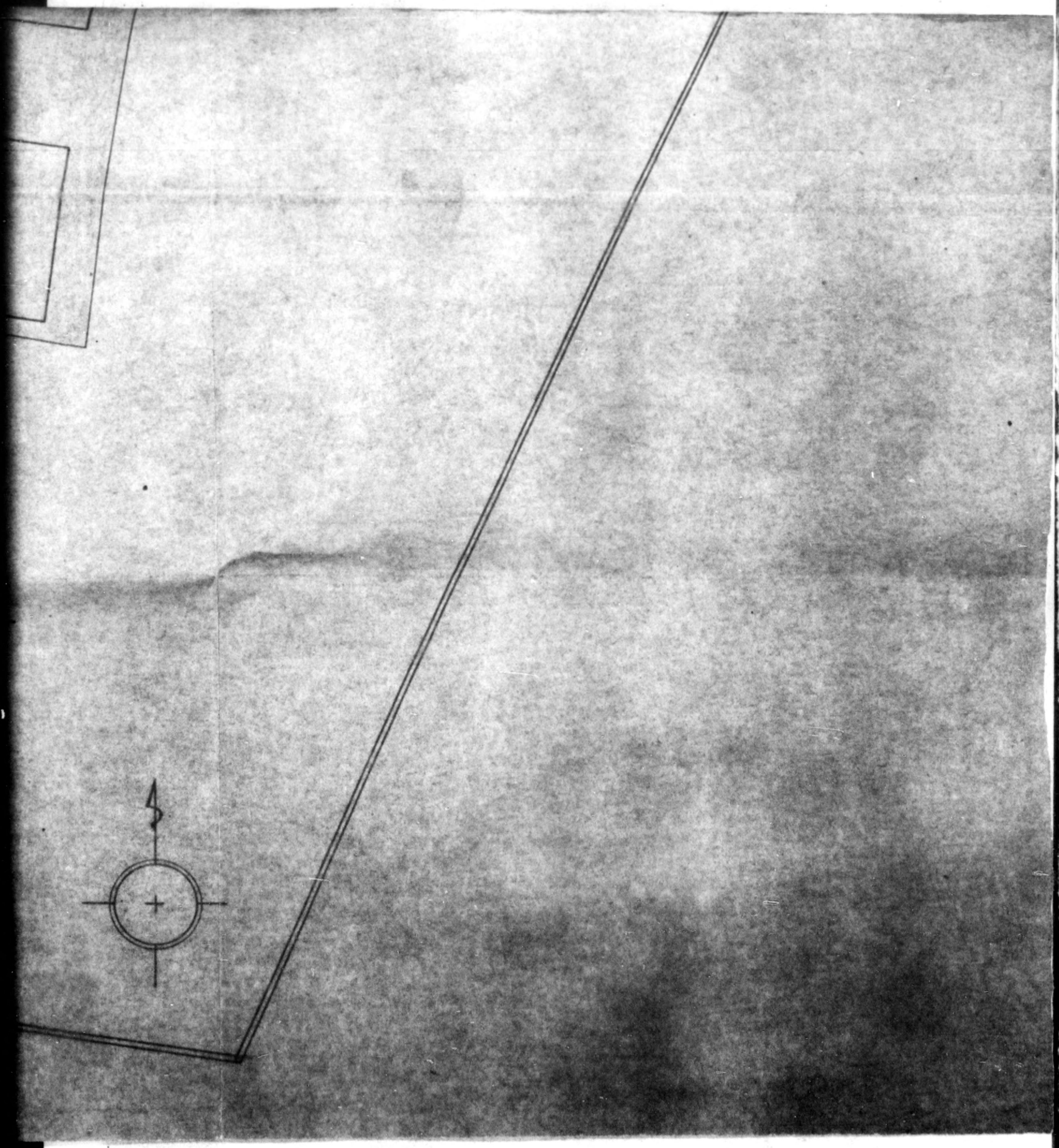

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

TOYAMA PLANT
EBARA MFG. CO., LTD.

Sept. 15, 1949

To: Toyama Civil Affairs Team.

From: Toyama Plant, Ebara Mfg. Co., Ltd.
200, Mukai-shinjo, Toyama City.

Subject: Report on Readjustment of Toyama Plant.

Owing to over-production of pumps and tightness of money, we had once decided to close our plant last winter, but we have tried once more to reconstruct it with all efforts by convertion of production, if possible. However the result was only to find it impossible to do so under the influence of nine points economic policies. At last we submitted a readjustment plan to our labor union on 22th August who fortunately agreeded with the plan on 6th inst., then we carried into effect the plan as follows.

1. Contents of readjustment Plan:

a. reduction of workers.

Among 202 members of our plant, 100 retired, 34 ordered to transfer to the main plant as Kawasaki, Kanagawa Pref. and 8 remained.

b. retiring allowance.

Retiring allowance, 48,000 yen per man, were paid on 8th inst. at a time.

2. Present Conditions:

a. Operation of Plant.

34 members who are ordered to transfer to the main plant are now engaged in keep and maintenance of reparations machines as well as in completing semi-products for the time being till they will remove to Kawasaki Plant actually.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

Some 30 machines will be operated for a few months to complete semi-products, but thereafter all the equipment will be stopped to operate except for purpose of safety-keeping.

b. Guards.

For the time being several guards are to be put on duty day and night by turn among who are expected to transfer to main plant and the remaining members.

(End)

Signature ..... Kitaro Kuninara .....
(Kitaro Kuninara)

For Director and Manager of
Toyama Plant

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

Economics

HEADQUARTERS TOYAMA MILITARY GOVERNMENT TEAM
APO 301

JJL/sn

413.8

17 December 1948

SUBJECT: Location of Missing Parts of Machines under Reparational Control and Custody

TO : Commanding Officer
Kanagawa Military Government Team
APO 503

1. The Ebara Seisakusho KK, Toyama Plant was placed under reparational control and custody by SCAPIN 1133, and subsequently given code number 42-24.

2. Included in the inventory of the equipment of this plant are several machines with a number of missing parts. The officials of this company claim that some of these machines were transferred from the Ebara Company's Haneda Plant, located in the vicinity of Yokohama and Tokyo, during 1945. These Japanese officials claim that many parts of these machines were lost in transit. This may very well be true, but there is also a strong possibility that many of these parts are still located in the Haneda Plant of the Ebara Company.

3. It is requested that personnel of your headquarters investigate the Ebara Co., Haneda Plant to det rmine if any of the missing parts of the two (2) machines listed in the enclosure are located at this plant.

FOR THE COMMANDING OFFICER:

OVID E. SCOTT
Major, FA
Adjutant

1 Incl:
Two (2) copies of list of parts missing from two (2) Horizontal boring machines (Ebara Seisakusho, Toyama Plant)

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

PARTS MISSING FROM MACHINES LOCATED IN
EBARA SEISAKUSHO, TOYAMA PLANT

NAME OF MACHINE	MAKER
Horizontal Boring Machine	Schiess (German)

Missing Parts:

a.	Screw Rod for spindle box sliding	1
b.	Gear box to be attached to bottom of column	1 set
c.	Pole change switch	1
d.	Bush and collar of vertical shaft	4
e.	Deck plate	1 set
f.	Wheels and brackets of balance weight	1 set
g.	Special motor	1
h.	Thrust bearing for gear box	2
i.	Tachmeter	1

Horizontal Boring Machine	Schiess (German)

Missing Parts:

a.	Cutter support	1
b.	Spindle for attaching balance weight	1
c.	Thrust bearing for gear box	2

Remarks:

These two (2) machines were transferred to the Haneda Plant in 1938. In 1945 there were dispersed to the Toyama Plant of the Ebara Co. It was during this moving that the Ebara Co. officials claim that all the parts listed above were lost.

Incl 1

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

(14)-10

HEADQUARTERS
TOYAMA MILITARY GOVERNMENT TEAM
APO 713

EM/sn

20 January 1947

SUBJECT: Application for Exemption of Reparations Machinery

TO : Supreme Commander for the Allied Powers, APO 500
ATTN: Mil Govt
(Thru Channels)

1. In compliance with SCAPIN 1376 dated 3 Dec 1946, subject: "Reparations Selection within the Machine Tool Industry," the Ebara Manufacturing Co., Toyama Plant was taken under custody and control.

2. The above plant has produced machine tools until Mar 1943, however at that time it passed to the control of the Ebara Mfg. Co., who immediately instituted a change in policy and began to exclusively manufacture pumps of all types from May 1943 up to and including the present time.

3. These pumps are in extremely great demand for agricultural uses such as irregation and reclamation work, the mining industry for draining the mines, in the production of chemical fertilizer, and in sewage disposal and water supply.

4. Since the Toyama Plant of the Ebara Mfg. Co. has added a great proportion of its present machinery solely for the production of various types of pumps even before the termination of the war, and has since 1943, and is now producing articles of such great importance to the present economy of this region, this office recommends that consideration be given by higher headquarters to the exclusion of part or all of the 151 machines petitioned for in the enclosed exclusion application, so that the supply of pumps especially for agriculture and mining, may not be interrupted with resultant adverse affects.

FOR THE COMMANDING OFFICER:

KENNETH R. SPEAS
Captain, FA
Adjutant

1 Inclosure:
Five (5) Exclusion Applications from Ebara Mfg. Co.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

REASONS WHY THE MACHINES ARE CLASSIFIED C. OR D.

TOYAMA PLANT
EBARA MFG. CO.,LTD.

(1) Machine classified C. -a

These machines cannot be repaired in our plant, but it might be possinle to repair if the original maker in Japan should try with major expence, effort and time.

1.	NO. OF MACHINE	NAME OF MACHINE	MAKER
	100	Vertical turnig and boring mill (2,700mm)	Ebara

A. Career

This machine was dispersed to our plant from our main plant in 1945 and just on the way it suffered an air raid at Toyama station on 1st Aug, of the same year.

B. Missing Parts

a. Pole change motor (4 stage speed change).....1

b. Magnet switch box.....1

c. Pole changer.....1

C. Damaged Parts

a. Drive Gear Box was burnt down and gears contained in it which were case hardend were entirely annealed.

D. Remarks

As this machine adopts electrical mechanism, missing of special motor and electric apparatus must be fatal for its operation.

2.	NO. OF MACHINE	NAME OF MACHINE	MAKER
	133	Horizontal Boring Machine (# 2½)	Hirose

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

A. Missing Parts

a. Main shaft.....1

B. Damaged Parts

a. Feed device of face plate.....1 set

3. | NO. OF MACHINE | NAME OF MACHINE | MAKER |
|---|---|---|
| 209 | Planer (12') | Toyo-kikai |

A. Career

This machine was dispersed from our main plant.

B. Missing Parts

a. Driving shaft.....1

b. Automatic feed gears and pins.....1 set

c. Belt shifter.....1

C. Remarks

Interchangeable parts of this machine are to be used in order to repair another planer (No.208) which is classified B.

(2) Machines classified C-b

These machines cannot be repaird not only in our plant, but also in any factory elsewhere without as much expence as to make a new one.

1. | NO. OF MACHINE | NAME OF MACHINE | MAKER |
|---|---|---|
| 37 | Horizontal Lathe (o') | Toyo-kikai |

A. Missing Parts

a. Feed Gear.....1

b. Change Gear.....1 set

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

c. Change Gear sleeve..... 1set

d. Handle for tightening tail stock center.... 1

e. Center and center sleeve..... 2

f. Door handle of bed..... 2

B. Damaged Parts

a. Cross feed handle of tool is broken.

b. Apron was damaged.

c. Lead screw and feed rod are bended.

1. NO. OF MACHINE: 92 — NAME OF MACHINE: Face Lathe — MAKER: Toyo-kikai

A. Missing Parts

a. Tool rest..... 1set

b. Back gears..... 1set

c. Device of longitudinal feed..... 1set

d. Stepped pulley..... 1

3. NO. OF MACHINE: 136 — NAME OF MACHINE: Horizontal boring machine (#3) — MAKER: Karatsu

A. Missing Parts

a. Power transmission gears..... 1set

b. Feed gear of face plate and spindle..... 1set

c. Motor..... 1

4. NO. OF MACHINE: 138 — NAME OF MACHINE: Horizontal boring machine (#5) — MAKER: Daido

A. Career

This machine had been installed in our main plant (Haneda Plant) and was suffered by an air bombing just at the time

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

when it was disassembled for repair and many of disassembled part were swept away.

B. Missing Parts

a. Power transmission gear..... 1

b. Change gears.....1 set

c. Brackets and pulley for balance weight.....1 set

d. Quick feed rod and bevel gear..... 1set

e. Pulley tightener.....1

f. Strip..... 1

C. Damaged Parts

a. Change lever is broken.

D. Remarks

Interchangeable parts of this machine are to be used in order to repair another Horizontal Boring Machine (No. 139) which is classified B.

5.

NO. OF MACHINE	NAME OF MACHINE	MAKER
141	Horizontal boring machine (#0)	Schiess

A. Career

This machine is manufactured in 1935 and was installed in our former main plant (Osaki Plant) at first and then transfered to Haneda plant in 1938. In 1945 however, it was dispersed to Nagano Plant where the unloading equipment was insufficient for the weight of this machine and was compelled to remove to our plant. Many of parts were missed on the way of transportation under frequent air raids.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

B. Missing Parts

a. Screw Rod for spindle box sliding..... 1

b. Gear box to be attached to botton of column..... 1 set

c. Pole change switch..... 1

d. Bush and collar of vertical shaft.....each 4

e, Outer support handle.....1

f. Deck plate.....lset

g. Strips.....lset

h. Wheels and Brackets of Balance weight.....lset

i. Special motor.....1

j. Thrust Bearing for Gear Box.....2

k. Special Bolts.....lset

C. Damaged Parts

a. Switch box.....1

b. Push button of gear box.....lset

c. Tachmeter.....lset

D. Remarks

This machine is newly designed, adopting electrical control method.

6.

NO. OF MACHINE	NAME OF MACHINE	MAKER
142	Horizontal boring machine (#7)	Schiess

A. Career

This machine was manufactured in 1925, installed in our former main plant (Osaki plant) for the purpose of boring large pump parts in next year. Later in 1938 it was removed to Haneda plant and again dispersed to this plant via Nagano

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

plant (Same with aforesaid boring machine). Many of parts were missed on the way or transportation.

B. Missing Parts

a. Outer support.....1

b. Switch box.....1

c. Spindle for attaching balance weight.....1

d. Thrust bearing for Gear box.....2

e. Deck plate.....1 set

f. Strips .....1 set

g. Special bolts.....1 set

C. Damaged Parts

a. Sliding surfaces of column and Floor are worn down.

b. Screw rod are severly worn down.

7.

NO. OF MACHINE	NAME OF MACHINE	MAKER
234	Centering Machine	Toyo-kikai

A. Missing Parts

a. Main spindle bearings.....1 set

b. Thrust bearings, rings and nuts of main spindle.....1 set

c. Drive pulley.....1

d. Fitting for work.....1 set

8.

NO. OF MACHINE	NAME OF MACHINE	MAKER
544, 550	Boiler (Water tube type 10kg/cm2)	Takuma

A. Career

These two boilers were to be installed not for plants power source but for testing Terry Turbines which were one of our

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

products in 1945 . We commenced the setting in July of the same year but cancelled their construction soon after surrender and left them as they were uncompleted. We believe that they are not applicable to the category of " Power Boiler" from the view-point of their capacity as well as their use.

B. Missing Parts

a. Apparatus for water supply

(boiler feed pump, piling, valves and bolts)....2 set

b. Main Steam pipings.....2 set

c. Overflow apparatus .....2 set

d. Man hole.....1

e. Water gauge.....1

f. Ragging and Fire bricks.....2 set

g. Instruments for operating boiler.....2 set

h. Motor for operating chain conveyer of coaling machine..2

(3) Machine classified D (namely scraps)

1.

NO. OF MACHINE	NAME OF MACHINE	MAKER
35	Horizontal Lathe (6')	Tsukamoto

Reason: Bed only, nothing else.

2.

NO. OF MACHINE	NAME OF MACHINE	MAKER
154	Unit Miller	Kageyama

Reason: Unit head only, nothing else.

3.

NO. OF MACHINE	NAME OF MACHINE	MAKER
211	Planer (12')	Sekisan-seiko

Reason: Bed only, nothing else.

(THE END)

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

BASIC: Ltr, Hq, Toyama Military Govt Team, APO 301, file 413.8, subj: "Location of Missing Parts of Machines under Reparational Control and Custody", dated 17 December 1948.

AG-E 413.8 3rd Ind

Headquarters, Kanagawa Military Government Team, APO 503, 8 Feb 1949

TO: Commanding Officer, Toyama Military Government Team, APO 301

1. Reference is invited to 2nd Ind to basic communication.

2. Mr. Matsubara, plant manager of the Kawasaki plant of Ebara Seisakusho was questioned relative to the missing parts. In 1945 he was plant manager at Haneda and was in charge of shipment of the machinery to Toyama. He feels sure that the parts were crated in several boxes and shipped with the machinery at that time.

3. A thorough search for subject parts was made at the Kawasaki plant and none were located.

FOR THE COMMANDING OFFICER:

Donald E. Miller

DONALD E. MILLER
Captain AGD
Adjutant

1 Incl:
n/c

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

BASIC: Ltr, Hq, Toyama Military Govt Team, APO 301, file 413.8, subj: "Location of Missing Parts of Machines under Reparational Control and Custody", dated 17 December 1948.

AG-E 413.8 3rd Ind

Headquarters, Kanagawa Military Government Team, APO 503, 8 Feb 1949

TO: Commanding Officer, Toyama Military Government Team, APO 301

1. Reference is invited to 2nd Ind to basic communication.

2. Mr. Matsubara, plant manager of the Kawasaki plant of Nhara Seisakusho was questioned relative to the missing parts. In 1945 he was plant manager at Haneda and was in charge of shipment of the machinery to Toyama. He feels sure that the parts were crated in several boxes and shipped with the machinery at that time.

3. A thorough search for subject parts was made at the Kawasaki plant and none were located.

FOR THE COMMANDING OFFICER:

DONALD E. MILLER
Captain AGD
Adjutant

1 Incl:
n/c

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

BASIC: Ltr, Hq, Toyama Military Govt Team, APO 301, file 413.8, subj: "Location of Missing Parts of Machines under Reparational Control and Custody", dated 17 December 1948.

AG-E 413.8 3rd Ind

Headquarters, Kanagawa Military Government Team, APO 503, 8 Feb 1949

TO: Commanding Officer, Toyama Military Government Team, APO 301

1. Reference is invited to 2nd Ind to basic communication.

2. Mr. Matzubara, plant manager of the Kawasaki plant of Ebara Seisakusho was questioned relative to the missing parts. In 1945 he was plant manager at Haneda and was in charge of shipment of the machinery to Toyama. He feels sure that the parts were crated in several boxes and shipped with the machinery at that time.

3. A thorough search for subject parts was made at the Kawasaki plant and none were located.

FOR THE COMMANDING OFFICER:

DONALD E. MILLER
Captain AGD
Adjutant

1 Incl:
n/c

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

Ltr, Hq. Toyama Mil Govt Team, APO 301, file 413.8, subj: "Location of Missing Parts of Machines under Reparational Control and Custody", dtd 17 December 1948.

AG-E 413.8 1st Ind

Hq. Kanagawa Military Government Team, APO 503, 27 December 1948

TO: Commanding Officer, Tokyo Military Government Team, APO 181

Forwarded as a matter pertaining to your command since plant in question is in Tokyo-to.

FOR THE COMMANDING OFFICER:

Donald E. Miller 1st

DONALD E. MILLER
Captain AGD
Adjutant

1 Incl:
n/c

AG-E 413.8 2nd Ind A/ck

Headquarters Tokyo Military Government Team, APO 181 FEB 1 1949

TO: Commanding Officer, Kanagawa Military Government Team, APO 503

1. Reference is made to paragraph 3 basic communication.

2. A thorough search for subject parts indicates that they are not presently located in the Ebara Seisakusho, Haneda Plant, Tokyo.

3. Plant officials, when questioned, stated that it is possible the parts were transferred to the Kawasaki Plant, although no documents were available to substantiate such remarks.

FOR THE COMMANDING OFFICER:

for Edward A. Sterling Lt Colonel C.M.P.

WILLIAM J. STREETMAN
Captain Infantry
Adjutant

1 Incl:
n/c

RR-343 DEC 30 1948

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

HEADQUARTERS TOYAMA MILITARY GOVERNMENT TEAM
APO 301

JJL/sn

413.8

17 December 1948

SUBJECT: Location of Missing Parts of Machines under Reparational Control and Custody

TO : Commanding Officer
Kanagawa Military Government Team
APO 503

1. The Ebara Seisakusho KK, Toyama Plant was placed under reparational control and custody by SCAPIN 1133, and subsequently given code number 42-24.

2. Included in the inventory of the equipment of this plant are several machines with a number of missing parts. The officials of this company claim that some of these machines were transferred from the Ebara Company's Haneda Plant, located in the vicinity of Yokohama and Tokyo, during 1945. These Japanese officials claim that many parts of these machines were lost in transit. This may very well be true, but there is also a strong possibility that many of these parts are still located in the Haneda Plant of the Ebara Company.

3. It is requested that personnel of your headquarters investigate the Ebara Co., Haneda Plant to determine if any of the missing parts of the two (2) machines listed in the enclosure are located at this plant.

FOR THE COMMANDING OFFICER:

DAVID E. SCOTT
Major, FA
Adjutant

1 Incl:
Two (2) copies of list of parts missing from two (2) Horizontal boring machines (Ebara Seisakusho, Toyama Plant)

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

PARTS MISSING FROM MACHINES LOCATED IN
EBARA SEISAKUSHO, TOYAMA PLANT

NAME OF MACHINE	MAKER
Horizontal Boring Machine	Schiess (German)

Missing Parts:

a.	Screw Rod for spindle box sliding	1
b.	Gear box to be attached to bottom of column	1 set
c.	Pole change switch	1
d.	Bush and collar of vertical shaft	4
e.	Deck plate	1 set
f.	Wheels and brackets of balance weight	1 set
g.	Special motor	1
h.	Thrust bearing for gear box	2
i.	Tachmeter	1

Horizontal Boring Machine	Schiess (German)

Missing Parts:

a.	Outer support	1
b.	Spindle for attaching balance weight	1
c.	Thrust bearing for gear box	2

Remarks:

These two (2) machines were transferred to the Haneda Plant in 1938. In 1945 there were dispersed to the Toyama Plant of the Ebara Co. It was during this moving that the Ebara Co. officials claim that all the parts listed above were lost.

Incl 1

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

THE EBARA MFG. CO., LTD.
TOYAMA PLANT

LIST OF EXCLUDE MACHINERY AND EQUIPMENT

DATE: May. 20, 1948

NAME OF MACHINE	DATE OF PERMIT	ORIGINAL LOCATION	REASON FOR MOVE
Vertical Boring Machine	Jan. 1947	Kawasaki Plant	transfered to this plant after surrender by the time of designation of reparation.
"	"	"	"
"	"	"	"
Radial Drilling Machine	"	Nagano Plant	"
Tool Grinder	"	Haneda Plant	"
"	"	Nagano Plant	"
"	"	"	"
Lathe	"	"	"
"	"	"	"
"	"	"	"
"	"	"	"
"	"	"	"
Planger Pump	"	Haneda Plant	"
Crane	"	"	"
"	"	"	"
"	"	"	"
"	"	"	"
Jib Crane	"	"	"
"	"	"	"
"	"	"	"
"	"	"	"
"	"	"	"

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

NAME OF MACHINE	DATE OF PERMIT	ORIGINAL LOCATION	REASON FOR MOVE
Jib Crane	Jan. 1947	Haneda Plant	transfered to this plant after surrender by the time of designation of reparation.
"	"	"	"
"	"	"	"
"	"	"	"
"	"	"	"
"	"	"	"
"	June 1947	"	transfered to this plant in order to trnsport pump parts.
Horizontal Boring Machine	May. 1947	Nagano Plant	transfered to this plant as the substitute for reparations machinery.
Vertical Boring Machine	"	"	"
"	"	"	"
Radial Drilling Machine	"	"	"
"	"	"	"
External Cylindrical Grinding Machine	Mar. 1947	Kiryu Plant	"
Lathe	May. 1947	Nagano Plant	"
"	"	"	"
"	"	"	"
"	"	"	"
"	"	"	"
"	"	"	"
Vertical Milling Machine	Mar. 1947	Kiryu Plant	"
"	"	"	"
"	"	"	"
"	"	"	"

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NAME OF MACHINE	DATE OF PERMIT	ORIGINAL LOCATION	REASON FOR MOVE
Planer	Mar. 1947	Kiryu Plant	transfered to this plant as the substitute for reparations machinery
Shaping Machine	"	"	"
"	"	"	"
"	"	"	"
Slotting Machine	May 1947	Nagano Plant	"
"	"	"	"

TOTAL.....51

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

THE EBARA MFG. CO., LT
TOYAMA PLANT

Copy

LIST OF EXCLUDE MACHINERY AND EQUIPMENT

DATE: May. 20, 1948

NAME OF MACHINE	DATE OF PERMIT	ORIGINAL LOCATION	REASON FOR MOVE
Vertical Boring Machine	Jan. 1947	Kawasaki Plant	transfered to this plant after surrender by the time of designation of reparation.
"	"	"	"
"	"	"	"
Radial Drilling Machine	"	Nagano Plant	"
Tool Grinder	"	Haneda Plant	"
"	"	Nagano Plant	"
"	"	"	"
Lathe	"	"	"
"	"	"	"
"	"	"	"
"	"	"	"
"	"	"	"
Planger Pump	"	Haneda Plant	"
Crane	"	"	"
"	"	"	"
"	"	"	"
"	"	"	"
Jib Crane	"	"	"
"	"	"	"
"	"	"	"
"	"	"	"
"	"	"	"

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

NAME OF MACHINE	DATE OF PERMIT	ORIGINAL LOCATION	REASON FOR MOVED
Jib Crane	Jan. 1947	Haneda Plant	transfered to this plant after surrender by the time of designation of reparation.
"	"	"	"
"	"	"	"
"	"	"	"
"	"	"	"
"	"	"	"
"	June 1947	"	transfered to this plant in order to transport pump parts.
Horizontal Boring Machine	May 1947	Nagano Plant	transfered to this plant as the substitute for reparations machinery.
Vertical Boring Machine	"	"	"
"	"	"	"
Radial Drilling Machine	"	"	"
"	"	"	"
External Cylindrical Grinding Machine	Mar. 1947	Kiryu Plant	"
Lathe	May. 1947	Nagano Plant	"
"	"	"	"
"	"	"	"
"	"	"	"
"	"	"	"
"	"	"	"
Vertical Milling Machine	Mar. 1947	Kiryu Plant	"
"	"	"	"
"	"	"	"
"	"	"	"

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

NAME OF MACHINE	DATE OF PERMIT	ORIGINAL LOCATION	REASON FOR MOVE
Planer	Mar. 1947	Kiryu Plant	transfered to this plant as the substitute for reparations machinery
Shaping Machine	"	"	"
"	"	"	"
"	"	"	"
Slotting Machine	May " 1947	Nagano Plant	"
"	"	"	"

TOTAL.....51

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

(26)-23A

Ebara

INVENTORY FORM FOR MACHINE TOOL AND BALL AND ROLLER BEARING PLANTS

DATE Feb. 27, 1947

Name of Company EBARA Mfg. Co.,Ltd. Related SCAFIN # 1376

Name of Plant Toyama Plant Code # 42 - 24

Address of Plant 200, Mukai-Shinjo, Toyama City.

	Number Tallied
1. METAL WORKING MACHINES	234
A. MACHINE TOOLS	229
1. Boring machines	12
2. Broaching machines	0
3. Drilling machines	29
4. Gear cutting and finishing machines	19
5. Grinding machines	22
6. Lathes	89
7. Milling machines	28
8. Planers	8
9. Miscellaneous machine tools	22
B. SECONDARY METAL FORMING AND SHAFING MACHINES AND EQUIPMENT	1
1. Bending machines	0
2. Hydraulic presses	0
3. Manual presses	1
4. Mechanical presses	0

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

INVENTORY FORM FOR MACHINE TOOL AND BALL AND ROLLER BEARING PLANTS

DATE Feb. 27, 1947

Name of Company EBARA Mfg. Co.,Ltd. Related SCAPIN # 1376

Name of Plant Toyama Plant. Code # 42 - 24

Address of Plant 200, Mukai-Shonjo, Toyama City.

	Number Tallied	
B. SECONDARY METAL FORMING AND SHAPING MACHINES AND EQUIPMENT (cont'd)		
5. Shearing and punching machine	0	
6. Forging machinery	0	
7. Wire forming machines	0	
8. Miscellaneous	0	
9. Other metal working machinery and equipment	0	
C. MISCELLANEOUS METAL WORKING EQUIPMENT		4
1. Welding machines, all types	2	
2. Testing and measuring machines, all types	2	
3 Miscellaneous physical property testin g	0	
4. Heat treating equipment	0	
5. Portable metal working machines	0	
II. ELECTRICAL MACHINERY AND APPARATUS		38
A. ELECTRICAL ROTATING EQUIPMENT		6
1. Generators	0	
2. Motors (5 HP and over)	6	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

INVENTORY FORM FOR MACHINE TOOL AND BALL AND ROLLER BEARING PLANTS

DATE Feb. 27, 1947

Name of Company EBARA Mfg. Co.,Ltd. Related SCAPIN # 1376

Name of Plant Toyama Plant. Code # 42 - 24

Address of Plant 200, Mukai-Shinjo, Toyama City.

	Number Tallied
A. ELECTRICAL ROTATING EQUIPMENT (cont'd)	
3. Motor Generators	0
4. Frequency changers	0
5. Converters and inverters	0
6. Generator Sets (Direct coupled to prime mover)	0
B. PRIMARY ELECTRIC FOMER TRANSMISSION AND DISTRIBUTION EQUIPMENT	32
1. Transformers	21
2. Switch	11
III. GENERAL PURPOSE INDUSTRIAL MACHINERY AND EQUIPMENT	3
A. ENGINES AND TURBINES	0
1. Steam Engines	0
2. Steam Turbines	0
3. Internal Combustion Engines	0
B. COMPRESSORS AND PUMPS	1
1. Compressors and Dry Vacuum Pumps	1
2. Pumps	0
C. MISCELLANEOUS MACHINERY AND EQUIPMENT	2
1. Power Boilers	0
2. Cranes	2

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

THE ERARA MFG. CO.,LTD.
TOYAMA PLANT

LIST OF MACHINERY AND EQUIPMENT

CODE NO.	NAME OF MACHINE	1st CLASS	2nd CLASS	TOTAL
IA1	Boring Machine	10	2	12
IA3	Drilling Machine	12	17	29
IA4	Gear Cutting & finishing M.	10	9	19
IA5	Grinding Machine	14	8	22
IA6	Lathes	39	50	89
IA7	Milling Machine	16	12	28
IA8	Planers	3	5	8
IA9	Miscellaneous	13	9	22
IB3	Manual Presses	1	0	1
IC1	Welding Machine	2	0	2
IC2	Testing Machine	1	1	2
	TOTAL	121	113	234
IIA2	Motors	6	0	6
IIB1	Transformers	21	0	21
IIB2	Switches	11	0	11
	TOTAL	38	0	38
IIIB1	Compressors	1	0	1
IIIC2	Cranes	2	0	2
	TOTAL	3	0	3
GRAND TOTAL		162	113	275

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

APPLICATION TO AUGMENT MACHINERY

DATE April 7, 1947

1. Name of Company requesting augmentation Toyama Plant, Ebara Mfg. Co., Ltd.

2. Address of Company 200, Mukai-shinjo, Toyama City.

3. Machinery to be augmented;

Name of Machinery	size	H.P.	Maker	Number	Where now Located	Owned by whom
Horizontal Lathe	20'	C.S.D.	Namba	1	Yoshida, Nagano-shi Nagano Pref.	Ebara Mfg.Co., Ltd.
"	18'	"	Rokuroku	1	"	"
"	6'	"	Ebara	2	"	"
"	6'	"	Matsui	4	"	"
Vertical Boring	850mm	15	Ebara	1	"	"
"	1,250	25	Niigata	1	"	"
Radial Drill	1,000	3	Rokuroku	1	"	"
"	1,500	5	Dainihon-koki	1	"	"
Shaft Grindwr		2	Karatsu	1	"	"
Slotter		3	Dainihon-koki	1	"	"
"		3	Hirose	1	"	"
Horizontal Boring	#3	10	Hirao	1	"	"
Total				16		

4. Reason for Request

Our plant has been manufacturing pumps for agriculture, chemical fertiliger, Coal mining, water supply, etc and nowintends to supplement machine tools from our fraternal

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

plant in Nagano Prefecture which had already been closed to continue our operation even after removal of reparations machinery.

I certify that information hereon is true and machines described in item 3. are not reparations machinery.

Signed Teinosuke Ando.
(Teinosuke Ando)
Director and manager of
Toyama Plant

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

THE EBARA MANUFACTURING CO., LTD.

TOYAMA PLANT

Date: Jan. 10th 1947

TO : Toyama Military Government Team.

THR: Toyama Prefectural Government.

Reasons why a Radial Drilling Machine removed from the Nagano Plant is desirable to be allowed to release from Reparation Purpose;

Since the year 1943 through the war-time down to now our plant has been manufacturing pumps exclusively and in last Autumn simultaneously with the commencement of the 5th year scheme of the Farm Reform Undertaking, this plant was compelled to turn out 120 units of large type pump over 10 inches size which must be completed by the forthcoming spring in addition to our usual production of pumps for supply to farming, chemical fertilizer manufactory, mining and water works etc. Consequently we stood in need of additional machine tools for an increase of our production, at that time the Nagano Plant, dispersed one from our main plant, was closed, therefore several machine tools (vide attached List of Machinery) got to be removed to Toyama Plant in accordance with our aforesaid requirement in November of last year. By reason of serious transportation difficulties the Radial Drilling Machine alone was delayed and arrived at 22nd of December after our plant has been taken into custody for reparations. Such being the case, your most favorable consideration is requested for the release of this machine and moreover, if possible, of other machinery listed on another sheet from the Reparation Purpose.

Yours respectfully

.....Teinosuke Ando.....

(TEINOSUKE ANDO)

Director and Manager of
TOYAMA PLANT
THE EBARA MFG. CO., LTD.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

REASONS WHY THE MACHINES ARE CLASSIFIED C. OR D.

TOYAMA PLANT
THE EBARA MFG.CO.,LTD.

(1) Machines classified C-a

These machines cannot be repaired in our plant, but it might be possible to repair if the original maker in japan should try with major expence, effort and time.

1. NO. OF MACHINE: 100 — NAME OF MACHINE: Vertical turning and boring mill (2,700mm) — MAKER: Ebara

A. Career

This machine was dispersed to our plant from our main plant in 1945 and just on the way it suffered an air raid at Toyama station on 1st Aug. of the same year.

B. Missing Parts

a. Pole change motor (4stage speed change)..... 1

b. Magnet switch box..... 1

c. Pole changer..... 1

C. Damaged Parts

a. DriveGear Box was burnt down and gears contained in it which were case hardened were entirely annealed.

D. Remarks

Asthis machine adopts electrical mechanism, missing of special motor and electric apparatus must be fatal for its operation.

2. NO. OF MACHINE: 133 — NAME OF MACHINE: Horizontal Boring machine (#2) — MAKER: Hirose

A. Missing Parts

a. Main shaft..... 1

B. Damaged Parts

a. Feed device of face plate..... 1 set

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

3. NO. OF MACHINE | NAME OF MACHINE | MAKER

209 | Planer (12') | Toyo-kikai

A. Career

This machine was dispersed from our main plant.

B. Missing Parts

a. Driving shaft..... 1

b. Automatic feed gears and pins..... 1 set

c. Belt shifter..... 1

C. Remarks

Interchangeable

Parts of this machine are to ~~changeable~~ be used in order to repair another planer (No. 208) which is classified B.

(2) Machines classified C-b

These machines cannot be repaired not only in our plant, but also in any factory else-where without as much expence as to make a new one.

1. NO. OF MACHINE | NAME OF MACHINE | MAKER

37 | Horizontal Lathe (6') | Toyo-kikai

A. Missing Parts

a. Feed Gear..... 1

b. Change Gear..... 1 set

c. Change gear sleeve..... 1 set

d. Handle for tightening tail stock center.. 1

e. Center and center sleeve..... 2

f. Door handle of bed..... 2

B. Damaged Parts

a. Cross feed handle of tool is broken.

b. Apron was damaged.

c. Lead screw and feed rod are bended.

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2. NO. OF MACHINE | NAME OF MACHINE | MAKER

92 | Face Lathe | Toyo-kikai

A. Missing Parts

a. Tool rest..... 1 set

b. Back gears..... 1 set

c. Device of longitudinal feed..... 1 set

d. Stepped pulley..... 1

3. NO. OF MACHINE | NAME OF MACHINE | MAKER

130 | Horizontal boring machine (#3) | Karatsu

A. Missing Parts

a. Power transmission gears..... 1 set

b. Feed gear of face plate and spindle..... 1 set

c. Motor..... 1

4. NO. OF MACHINE | NAME OF MACHINE | MAKER

138 | Horizontal boring machine (#5) | Daido

A. Career

This machine had been installed in our main plant (Haneda Plant) and was suffered by an air bombing just at the time when it was disassembled for repair and many of disassembled parts were swept away.

B. Missing Parts

a. Power transmission gear..... 1

b. Change gears..... 1 set

c. Brackets and pulley for balance weight..... 1 set

d. Quick feed rod and bevel gear..... 1 set

e. Pulley tightener..... 1

f. Strip..... 1

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C. Damaged Parts

a. Change lever is broken.

D. Remarks

Inter-Changeable parts of this machine are to be used in order to repair another Horizontal Boring Machine (No. 139) which is classified B.

5. NO. OF MACHINE	NAME OF MACHINE	MAKER
141	Horizontal boring machine (#6)	Schiess

A. Career

This machine is manufactured in 1935 and was installed in our former main plant (Osaki Plant) at first and then transfered to Haneda plant in 1938. In 1945, however, it was dispersed to Nagano plant where the unloading equipment was in-sufficient for the weight of this machine and was compelled to remove to our plant. Many of parts were missed on the way of transport-ation under frequent air raids.

B. Missing Parts

a. Screw Rod for spindle box sliding..... 1

b. Gear box to be attached to bottom of column..... 1 set

c. Pole change switch..... 1

d. Bush and collar of vertical shaft..... each 4

e. Outer support handle..... 1

f. Deck plate..... 1 set

g. Strips..... 1 set

h. Wheels and Brackets of Balance weight..... 1 set

i. Special motor..... 1

j. Thrust Bearing for Gear box..... 2

k. Special Bolts.....1 set

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C. Damaged Parts

a. Switch box..... 1

b. Push button of gear box..... 1 set

c. Tachmeter ..... 1 set

D. Remarks

This machine is newly designed, adopting electrical control method.

6.

NO. OF MACHINE	NAME OF MACHINE	MAKER
142	Horizontal boring machine (#7)	Schiess

A. Career

This machine was manufactured in 1925, installed in our former main plant (Osaki plant) for the purpose of boring large pump parts in next year. Later in 1938 it was removed to Haneda Plant and again dispersed to this plant via Nagano Plant (Same with aforesaid boring machine). Many of parts were missed on the way of transportation.

B. Missing Parts

a. Outer support..... 1

b. Switch box 1

c. Spindle for attaching balance weight..... 1

d. Thrust bearing for Gear box..... 2

e. Deck plate..... 1 set

f. Strips..... 1 set

g. Special bolts..... 1 set

C. Damaged Parts

a. Sliding surfaces of Column and Floor are worn down .

b. Screw rod are severely worn down.

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7. NO. OF MACHINE | NAME OF MACHINE | MAKER

234 | Centering Machine | Toyo-kikai

A. Missing Parts

a. Main spindle bearings..... 1 set

b. Thrust bearings, rings and nuts of main spindle..... 1 set

c. Drive pully..... 1

d. Fitting for work..... 1 set

8. NO. OF MACHINE | NAME OF MACHINE | MAKER

544. 550 | Boiler (water tube type 10kg/cm2) | Takuma

A. Career

These two boilers were to be installed not for plant's power source but for testing Terry Turbines which were one of our products in 1945. We commenced the setting in July of the same year but cancelled their construction soon after surrender and left them as they were uncompleted. We believe that they are not applicable to the category of "Power Boiler" from the view-point of their capacity as well as their use.

B. Missing Parts

a. Apparatus for water supply (boiler feed pump, piping, valves and bolts)....2 set

b. Main Steam pipings.....2 set

c. Overflow apparatus.....2 set

d. Man hole 1

e. Water gauge.....1

f. Ragging and Fire bricks.....2 set

g. Instruments for operating boiler.....2 set

h. Motor for operating Chain Conveyer of coaling machine.....2

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(3) Machines classified D (namely scraps)

1. NO. OF MACHINE | NAME OF MACHINE | MAKER

35 | Horizontal Lathe (6') | Tsukamoto

Reason: Bed only, nothing else.

2. NO. OF MACHINE | NAME OF MACHINE | MAKER

154 | Unit Miller | Kageyama

Reason: Unit head only, nothing else.

3. NO. OF MACHINE | NAME OF MACHINE | MAKER

211 | Planer (12') | Sekisan-seiko

Reason: Bed only, nothing else.

(THE END)

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

THE EBARA MANUFACTURING CO., LTD.

TOYAMA PLANT

Date: Jan. 10th 1947

List of machinery removed from the Nagano Plant of Ebara Mfg. Co., Ltd.

No. of Machine	Name of Machine	Size	No. of Freight Car	Date of Arrival
236 (1)	Horizontal Lathe	12'	To - 6070 (10 tons)	Nov.18th 1946
237 (3)	"	"	Tomu-12058 (15 ")	Nov.15th 1946
238 (3)	"	"	"	"
239 (4)	"	8'	Tomu - 343 (15 ")	Nov.19th 1946
240 (4)	"	6'	"	"
241 (4)	Radial Drilling Machine	1.5 m	Tomu-51922 (15 ")	Dec.22nd 1946
545 (3)	Tool Grinder	14"	Tomu- 343 (15 ")	Nov.19th 1946
546 (5)	"	"	"	"

TOTAL ..... 8 units.

Remarks :

(1) Date of shipment from the Nagano Plant is not obvious but at that time it took about six or seven days for transporting by rail way.

(2) Figures in ( ) show the No. of BLDG. in which the machine was installed.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

EM

TOYAMA PLANT
EBARA MFG. CO., LTD

Mar. 6 , 1947

SUBJECT: REPORT ON ARRIVAL OF MACHINES FROM KIRYU PLANT

TO: TOYAMA MILITARY GOVERNMENT

THRU: TOYAMA PREFECTURAL GOVERNMENT

FROM: TOYAMA PLANT, EBARA MFG.CO.,LTD.

Gentlemen,

We hereby beg to report that nine machines which were moved to our plant from our Kiryu plant in Gumma Prefecture arrived here on 5th March and they are now being kept in testing shop (bldg. no.5) with marks of "EX". With reference to the details would you please refer to the application of our Kiryu plant and the permission of Gumma Military Government Team the copies of which are under separate cover.

Yours sincerely,

Teinosuke Ando.
(Teinosuke Ando)

Director and Manager
of Toyama Plant

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

HEADQUARTERS
GUMMA MILITARY GOVERNMENT TEAM
APO 201

BAF/FVC/IMW

27 February, 1947

SUBJECT: Movement of Machinery

TO: Governor , Gumma-ken

Permission is granted to allow the Ebara Manufacturing Company to move the machinery referred to in the attached letter from the Kiryu Plant, Ebara Manufacturing Company, to the Toyama plant or the same company.

BLAIR. A. FORD
Colonel Infantry
Senior Mil. Govt. Officer

DISTRIBUTION

2 copies.....As above

1 copy .....GMGT File

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

DATE: Feb. 25, 1947

SUBJECT: Application for permit to transport machines equipped to the plant.

TO: 77th Military Government Headquarters,
1st Cavalry Division.

FROM: The Kiryu Plant, Ebara Mfg.Co., Ltd. (Kabushikikaisha Ebara Seisakusho Kiryu Kojo)

Address: 750, Nishi-hisakata-machi,1 chome, Kiryu-shi

Gentlemen:

We hereby ask for your permission to transport the following machines from Kiryu Station to our Toyama plant (thru Toyama Station) because of closing of the plant.

Yours sincerely,

.....(.SIGNED.).....
Tokusaburo Chujo
Plant manager

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

LIST OF MACHINES TO BE MOVED TO TOYAMA PLANT

NO. OF MACHINE	NAME OF MACHINE	SIZE	MANUFACTURER	CONSIGNEE
502	Grinding machine	1 m	Hokushin	Toyama Plant
604	Milling machine		Kinoshita	"
605	"		"	"
606	"		Motoe	"
607	"		"	"
701	Shaping machine		Nakagawa	"
702	"		"	"
703	"		"	"
801	Planer	8'	Toyo-kikai	"

TOTAL..... 9 IN UNITS

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

Copy

HEADQUARTERS
TOYAMA MILITARY GOVERNMENT TEAM
APO 713

EM/sn

30 January 1947

SUBJECT: Application for Exemption of Reparations Machinery

TO: Supreme Commander for the Allied Powers, APO 500
ATTN: Mil Govt
(Thru Channels)

1. In compliance with SCAPIN 1376 dated 3 Dec 1946, subject: "Reparations Selection within the Machine Tool Industry", the Ebara Manufacturing Co., Toyama Plant was taken under custody and control.

2. The above plant has produced machine tools until Mar 1943, however at that time it passed to the control of the Ebara Mfg. Co., who immediately instituted a change in policy and began to exclusively manufacture pumps of all types from May 1943 up to and including the present time.

3. These pumps are in extremely great demand for agricultural uses such as irregation and reclamation work, the mining industry for draining the mines, in the production of chemical fertilizer, and in sewage disposal and water supply.

4. Since the Toyama Plant of the Ebara Mfg. Co. has added a great proportion of its present machinery solely for the production of various types of pumps even before the termination of the war, and has since 1943, and is now producing articles of such great importance to the present economy of this region, this office recommends that consideration be given by higher headquarters to the exclusion of part or all of the 151 machines petitioned for in the enclosed exclusion application, so that the supply of pumps especially for agriculture and mining, may not be interrupted with resultant adverse effects.

FOR THE COMMANDING OFFICER:

1 Inclosure:
Five (5) Exclusion Applications
from Ebara Mfg. Co.

/s/ Kenneth R. Speas
/t/ KENNETH R. SPEAS
Captain, FA
Adjutant

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

BASIC: Ltr, Hq Toyama Mil Govt Team, dtd 20 Jan 47, subj: "Application for Exemption of Reparations Machinery"

1st Ind GNM/ss

Hq Tokai-Hokuriku Mil Govt Region, APO 710, 27 Jan 47

TO: CG, I Corps, APO 301
(ATTN: Res, Comm & Ind Officer)

1. The Ebara Manufacturing Co., Toyama Plant Code number (42-24) was placed under Custody and Control by SCAPIN 1376 dated 3 Dec 1946.

2. No criteria has yet been announced by higher headquarters, which establishes the basis for selection of machine tool industries. Therefore, application is being forwarded without recommendation from this headquarters.

FOR THE COMMANDING OFFICER:

/s/ Frank M. Wilkins
/t/ FRANK M. WILKINS
Maj FA
Adjutant

1 Incl:
n/c
lcc w/d

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

BASIC: Ltr, Toyama Mil Govt Team, subj: "Application for Exemption of Reparations Machinery", dtd 20 Jan 47.

AG 004 - BA 2nd Ind EHN/ckw

Hq I Corps, APO 301, 1 FEB 1947

TO: CG, Eighth Army, APO 343

1. Inclosed herewith is an application of the Nhara Manufacturing Co., Toyama Plant (42-34 Mach T1), for removal from the reparations list.

2. Subject plant was originally organized as a machine tool plant. However, in 1943, the company changed its character as a machine tool manufacturer, and commenced production of pumps. These pumps are in extremely great demand for agricultural and mining industries.

3. Inasmuch as no criteria for selection of machine tool plants for reparations selection has been announced by higher headquarters, the inclosed application is forwarded to your headquarters without recommendation.

FOR THE COMMANDING GENERAL:

1 Incl:
n/c

B#33185

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Ebara Seisakusho. Toyama. 16 Apr. 1947.

The conclusions of 19 February have been found to be generally sound. But the usefully operated plant should not be actually taken for reparations while so usefully busy.

Its machine tools have been recently evaluated 1 245 470 (out of the plant's grand total of 1 590 242) "1939" Yen. This is likely to be less than half of the Kawasaki plant's figures.

The plant's foreign-made machines came all from Hanada. They are partly air-raid damaged or otherwise reduced in value: the Schiess 2300 mm vert. lathe, the Rabourn 2m radial drill, the two Schiess' hor. boring machines. Good are: the Heald internal grinder and the gear cutting machines (3 Pfauter, 1 Fellows, 1 Sunderland); at present none of these latter six foreign machines is being used.

A copy has been received of a recent report to Mil. Gov. Teams stating the shortcomings of some of these and of some other machine tools.

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Ebara Seisakusho, Toyama. 19 February 1947.

One copy to Col. Moss, Toyama 16 Apr. 47

Petition received.
Clear and detailed. Mentions no facts previously unknown.
Asks for exclusion from Reparations of 93 out of existing 256 Mach.Tools.
Reason: The present pump manufacturing must go on;
otherwise, great setbacks will be suffered, mainly in
farmland irrigation, fertilizer production, coal mining, city severage & water supply.

Hq Toyama Military Gvt. Team:
recommend exclusion from Repts.of part or all of the machs. petitioned (for.
Hq Tokai-Hokuriku Military Gvt. Region:
without recommandation.
Hq I Corps:
without recommandation.
Hq 8. Army:
draws attention to the fact that the factory primarily made pumps.

Dec. 1939: Factory established by Usui Seiki.
July 1941: Factory taken over by Asahi Seiki.
March 1943: Factory taken over by Ebara Seisakusho.
The repeated change of hands is considered irrelevant:
Ebara's present president managed the plant already in 1941.

1939-1942: Machine Tools were built exclusively (altogether 281 units).
1943: The plant was greatly extended, Machine Tools & pumps built.
1944-1946: Pumps, partly with their steam drives, were built exclusively.

Sept.45-Nov.46: Average monthly output 110 pumps of 1000 kg average weight.
Present goal: 150 pumps per month.

Present Machine Tool equipment:	256 units.
Wanted exempted from Reparations for pump making:	93 units.
Balance = "Machine Tool factory" for Reparations:	163 units.

Beyond doubt, the plant is useful for the above underlined purposes.
Yet, there is another side to the picture:

Many pump parts, especially big ones, cannot now be made at Toyama.
Facilities to make them exist at Ebara's Kawasaki plant only
(after their big Haneda plant has been bombed out).
These parts' transport from Kawasaki to Toyama is difficult nowadays.
Also the ready manufactured pumps' transport from Toyama is difficult:
A great many customers are located far away from Toyama & nearer Kawasaki.
Moreover, raw material is far harder to get at Toyama than at Kawasaki.
And, finally, the climatic conditions at Toyama are unfavorable.

All these items have been stressed by Ebara's own representatives.
For this very reason, Toyama had been substituted for Kawasaki.
A pre-requisite for this substitution had been Ebara's proof (saki.
that Toyama was eligible as a Machine Tool factory just as well as Kawa-
Ebara had claimed that it was, and that Toyama could produce monthly
20 six-feet lathes plus 9 vertical turning mills of 5½ ton weight each.

Such a production clearly asks for ALL of Toyama's machines to be operated.
(Even with 256 shop-units it is hard to produce the 29 units per month.)
On the other hand, for the goal of 150 pumps/month, 93 shop-units are too (few.
For both reasons, therefore,

it is advocated NOT to split the plant.

Neither of the two resulting "plants" would be satisfactory,
not the "Machine Tool factory" for Reparations holding 163 Machine Tools
nor the "Pump factory" to stay on the spot holding 93 Machine Tools.

Under the circumstance, only two possible solutions can be seen:

Either the petition is rejected outright
or a decision is postponed.

Postponement may lead towards eventual release of the whole plant:
should the directives be altered which, at present, still govern
the earmarking of Machine Tool factories for Reparations.

Rbg.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

TOYAMA
LIAISON OFFICE

January 15th, 1947

TO: Commanding Officer,
The Eighth United States Army

THRU: Toyama Mil. Gov't Team.

SUBJECT: Application for Exemption from Reparations Plant Groups of Toyama Plant, Ebara Manufacturing Plant (Co.,Ltd.), A Machine Tools Factory.

As Toyama Plant, Ebara Manufacturing Plant (Co., Ltd.), 200 Mukaishinjo, Toyama City which was designated to be under custody as a machine tools factory as of Dec. 3, 1946, submitted an application for partial exemption from reparations plant of machine tools as shown on the attached papers, we want to request your special favor, taking into consideration the following special circumstances.

1. Circumstances of the Plant.
This plant was founded by Usui Precision Machine Manufacturing Plant, (Co.,Ltd) in Dec. 1939 and manufactured small-sized lathes and grinders, but, due to the difficulty of management, it was sold to Asahi Presision Machine Industries Co.,Ltd. in July 1941. Thereafter, in March, 1943, Ebara Manufacturing Plant took over it, planning to manufacture small-sized lathes, but the plant, giving up the plan, has been producing, since May, 1943, pumps for agriculture, chemical fertilizer manufacturing, mining, ships, water supply and sewerage works.

2. Reasons for exemption.
a). This plant is the only pump manufacturing specializing factory and pumps produced by this plant are used for important purposes of agriculture, chemical fertilizer production, mining, water supply and sewerage works and in case the supply be suspended, it will probably bring about a grave influences on the current industry of our country.

b). The plant is now manufacturing 120 stands of large-sized pumps of more than 10 inches for the fifth land revision for the year of 1946 and this should be completed by the irrigation drainage period of 1947 spring. Moreover, a considerable work of production for the land development is expected and if the supply will be suspended, a great obstacle to the development of farmland is anticipated.

c). The production of chemical fertilizer, parallel with land revision is an important problem from the standpoint of agricultural improvement of our country and pumps for fertilizer production being called supplies rather than installations, the current circumstances reveal that all the nation-wide production capacity will hardly meet the demand and the situation that the demand will in future

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increase, is considered to call for further production by this plant.

d). Taking into consideration the situation that increased production of coal is an essential and vital problem to surmount the current economic crisis, the internal facilities of coal mines devastated during the wartime, especially, pumps for drainage need to be urgently supplemented. This plant is now manufacturing pumps for drainage at the request of many coal mines.

e). Water supply and severage works of cities is an indispensable facility to maintain the minimum mode of living from the point of view of public health preservation, but these facilities are on the verge of devastation as a result of neglect of repair during the wartime.

This plant is at present manufacturing pumps of various types for water supply works at the request of many cities.

As mentioned above, pumps being an indispensable supply for the stabilization of civil life, we want to request your special favor to exempt 93 stands of machine tools, 25 stands of electric machines and 33 stands of other machines and equipments, totalling 161 stands from reparations plant.

Signed Keiji Ishimaru
KEIJI ISHIMARU

Governor of
Toyama Prefecture.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

THE EBARA MANUFACTURING CO., LTD.
TOYAMA PLANT

PETITION

Date: January 15, 1947

TO : The Commanding Officer,
Toyama Military Government Team.

THR : Toyama Prefectural Government.

Dear Sir,

Very recently the machinery and equipment of this plant have been taken into custody for reparations purposes by the supreme Commander for the Allid Powers.

This plant previously engaged in manufacture of machine tools under management of the former proprietors, but ever since the year 1943, when this plant passed into our hands, through the war-time down to now, has been the maker of pump equipment (with one and only exception that the plant completed a small quantity of machine tools which we were compelled to take over from the former management when this plant changed hands in March 1943) for supply to farming, chemical fertilizer manufactory, mining, water works and sewerage, etc. which serve to be the foundation of all industries and indispensable for stabilization of civilian life.

As the sole speciality factory for manufacture of pumps equipment in the districts along the Japan Sea, this plant has been holding an unique position in the local industrial circles and this is still more so in the sense of meeting local requirement in these days of serious transportation difficulties.

Being fully cognizant of the fact that their manufacture is the basic material which is absolutely necessary for sustaining the nation's minimum standard of living, both works and the management of this plant are firmly determined to discharge the liability for reparations assigned to them in all sincerity and, after that, to strive for speedy resuscitation of this plant by their united efforts so that they will be able to continue as ever the manufacture of pumps indispensable for economic rehabilitation of their fatherland.

Needless to say, we are prepared to deliver as reparations not only the machinery and equipment that were actually used in the past for manufacture of machine tools, but also those lying idle in the plant.

Such being the case, we beg you will take the circumstances fully into account and should be much obliged if you would be good enough to use your influence so that this plant will be allowed to

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to retain
(namely exempted and immune from reparations) a minimum quantity of machinery and equipment badly needed for maintaining the existing level of productions.

Yours respectfully

....Teinosuke Ando.....
(TEINOSUKE ANDO)
Director and Manager of
TOYAMA PLANT
THE EBARA MFG. CO., LTD.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

APPLICATION FOR REMOVAL FROM REPARATION LIST

A. NAME OF CORPORATION : Kabushiki Kaisha Ebara Seisakusho.
(The Ebara Mfg. Co., Ltd.)

B. NAME OF P LANT : Toyama Kojo (Toyama Plant)

C. LOCATION OF CORPORATION AND PLANT :

(a) Corporation : 3 chome, Haneda, Kamata-Ku, Tokyo-To.

(b) Plant : 2oo Mukai-shinjo, Toyama-Shi, Toyama-Ken.

D. DATE OF CORPORATION'S ESTABLISHMENT AND OF COMMENCEMENT OF PLANT'S OPERATION :

(a) Corporation :

(1) Establishment of the Inokuchi-shiki Kikai Jimusho. (The Inokuchi-type Machinery Office)..... Nov. 1912.
(2) Reorganization into a joint stock company..... May 1920.

(b) Plant :

(1) Construction : March 1943.

(2) Commencement of operation : March 1943.

E. HISTORY OF PLANT

This plant was constructed in December 1939 by the Usui precision works, Ltd. (KABUSHIKI KAISHA USUI SEIKI SEISAKUSHO) and engaged in manufacturing horizontal lathes of small size and grinders.

In July 1941, however, owing to the financial setback, the Usui Precision Works, Ltd. deeded its enterprise to the Asahi Precision Manufacturing Co., Ltd. (ASAHI SEIKI KOGYO KABUSHIKI KAISHA) whose result was not improved whatever because of their poor management and at last the Asahi Company was compelled to deed its enterprise to our Corporation in March 1943.

At the start our Corporation purchased the plant for the purpose of manufacturing machine tools. In the meantime, however, the war situation became pressing and consequently other companies who had engaged in the manufacture of pumps converted their productions into munitions with the result that demands on pumps were concentrated exclusively on our Company. Thus, in May 1943, we changed our manufacturing plant to that of turning out pumps for agriculture, chemical fertilizer manufactory, coal mining, shipping, etc. as well as engines and turbines to be coupled with pumps equipped on freight-ships and ceased to produce machine tools, except some semi-finished machines which were almost completed by the former proprietor.

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After the end of war, we have been turning out the pumps for civil industries exclusively, continuing to do so up todate.

F. LIST OF PRODUCTION FOR PERIOD 1934 - 1936 yearly :

Not applicable, because this plant had not been constructed up to that time.

G. LIST OF PRODUCTION FOR PERIOD 1937 - 1945 :

PRODUCTS / YEAR	MACHINE TOOLS: LATHES	MACHINE TOOLS: GRINDERS	PUMPS	PRIME MOVERS
1937	Not applicable			
1938	-do-			
1939	-do-			
1940	125	9	0	0
1941	101	0	0	0
1942	40	0	0	0
1943	31	0	682	0
1944	0	0	1,375	149
1945 (Jan. - Aug.)	0	0	594	2

N.B. Prim movers manufactured in this plant were steam-engines and turbines of 151 units in total number which were to be coupled with circulating water pumps and draft fans of cargo boats. Generally pumps and fans were to be driven by electric motors, however, in wartime the situation became pressing and every newly built cargo boat was ~~be~~ inevitably old-fashioned without electric source, thereby our corporation was compelled to turn out such kind of first movers in order to being coupled with and driving our proper products. (vide enclosed paper NO. 1)

H. LIST OF MONTHLY PRODUCTION FOR POST-WAR PERIOD :
(a) Monthly production in the plant after the war :

PRODUCTS: MONTH	YEAR	PUMPS: QUANTITY IN UNIT	PUMPS: WEIGHT IN TON
Sept.	1945	200	83
Oct.	"	144	62
Nov.	"	123	99
Dec.	"	113	70
Jan.	1946	129	77
Feb.	"	108	99
Mar.	"	110	91

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PRODUCTS MONTH	YEAR	PUMPS QUANTITY IN UNITS	WEIGHT IN TON
Apr.	1946	106	135
May	"	115	147
June	"	85	134
July	"	74	147
Aug.	"	76	134
Sept.	"	81	106
Oct.	"	85	105
Nov.	"	88	121

NOTE : We were granted permit to Operate dated October 5, 1946.

(b) Anticipated production in future :

PUMPS..... 150 units monthly.

(I) OUTLINE OF MACHINERY AND EQUIP-MENT ON HAND :

(a) Outline of Machinery and Equipment on hand

DESCRIPTION	EQUIPMENT FORMERLY USED FOR TURNING OUT MACHINE TOOLS	EQUIPMENT ADDED LATER FOR THE PURPOSE OF MAKING PUMPS	TOTAL
MACHINE TOOLS :			
Boring M.	3	13	16
Drilling M.	11	18	29
Gear Cutting & Finishing M.	1	16	17
Grinders	7	4	11
Lathes	55	50	105
Milling M.	11	18	29
Planers	3	7	10
Miscellaneous	13	26	39
TOTAL	104	152	256
ELECTRIC FACILITY:			
Motors	4	3	7
Transformers	5	16	21
TOTAL	9	19	28

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OTHER MACHINERY & EQUIPMENT :	6	28	34
GRAND TOTAL	119	199	318

NOTE : (1) Here must be to have necessity for the certification on the number of 104 in units and specification for machine tools at the time when our corporation obtained them from proprietor, however, in order to that we have no detailed document verifiable in spite of a matter of fact, we shall take as a proof the duplicate of "Report on Manufacturing Facilities of Machine Tools" which was presented by the proprietor, Asahi Precision Mfg. Co., Ltd., to Japanese Government in 1941 and its original should be kept by Precision Machinery Section in Commercial and Industrial Ministry.
(vide enclosed papers NO. 2)

(2) In the wartime, for the reason of increasing production as well as the dispersion of Machinery from parent plant in Tokyo, ever after surrender, our plant accepted 152 units of machine tools accordingly many other machinery. (vide enclosed papers NO. 3)

(b) Machinery and Equipment disused :

There are no machinery nor equipment which has became useless except afore-said ones which had been used for manufacturing Machine Tools. However, we sincerely hope that a minimum quantity of Machinery and Equipment to be retained - that are indispensable for continuing production of Pumps for agriculture, chemical fertilizer industry, coal mining, etc. - as follows :

1. MACHINE TOOLS:

NAME OF MACHINE	NUMBER
Boring M.	5
Drilling M.	13
Gear Cutting & Finishing M.	7
Grinders	8
Lathes	39
Milling M.	7
Planers	5
Miscellaneous	9
TOTAL	93 units

(vide enclosed NO. 4 for details)

2. ELECTRIC FACILITY:

NAME OF MACHINE	NUMBER
Electric Motors	4
Transformers	21
TOTAL	25 units

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3. OTHER MACHINERY AND EQUIPMENT : 33 units
(vide enclosed papers NO. 5 for details)

J. PERCENTAGE OF MONTHLY PRODUCTION OF PRINCIPAL PRODUCTS IN THIS PLANT FOR OVERALL MONTHLY PRODUCTION IN JAPAN :

PRODUCTS	OVERALL MONTHLY PRODUCTION IN JAPAN	MONTHLY PRODUCTION OF THIS PLANT	%
PUMPS	2,300 units	150 units	6.5
	1,100 tons	130 tons	11.8

K. REASONS FOR REQUEST (to be allowed to retain a portion of the Machinery & Equipment)

In view of the fact that this plant has a record of turning out Machine Tools in the past, and now that, having been nominated for reparations purposes, we are quite prepared, as an obligation for the surrendered nation, to deliver to the Allied powers not only the machinery and equipment that were used in the past for the manufacture of Machine Tools, but also those additionally installed after this plant has come under our management for use in turning out Pumps.

Attention, however, is called to the fact that the Pumps which are the present main products of this plant are serving as the very foundation of stabilization of Japanese civilian life because they are used for such Key Industries as agriculture, chemical fertilizer manufacturing, mining, water works, sewerage and so on. Such being the case, once the supply of pumps were to be stopped very serious effect it may have on people's life can be easily imagined. The result would be nothing but the aggravation of industrial crisis with which Japan is now facing.

It is also to be noted that this plant is the sole manufactory specialized in turning out pumps in the districts along the Japan Sea, hence holding an unique position among the local industrial circles. It follows naturally, therefore, that we are quite anxious for continuing the pumps production in spite of any hindrance or difficulties.

Under the circumstances, it is our ardent hope that this plant would be allowed to retain a minimum number of Machinery and Equipment such as Machine Tools, Cranes, Transformers as well as some of the Casting facility as listed in the attached sheet in order to maintain the present scale of pump manufacturing.

The following statements will explain why so much importance is attached to the pump producing industry in which this plant is playing a great role :-

120 (a) As for the agricultural use - this plant is now making 120 units of large-type pump over 10 inches size which must be completed by the forthcoming spring for uses to irrigate and drain farm-land in the 5th year (1946) scheme of the Farm Reform Undertaking and still larger orders being expected in the next business year for reclamation's purposes. From the above, it may be clear that the Farm Reclamation Scheme will meet with a great hitch if the supply of pumps is to be reduced or discontinued.

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(b) The production of chemical fertilizer copes with the above-mentioned land reform undertaking in its importance with a view to carring out the Firm Improvement Scheme in Japan. So far as the manufacture of fertilizer is concerned, we believe, the pump is more of an article of consumption rather than equipment, therefore the present situation prevailing in Japan is that with all pump production capacity mobilized it still cannot meet the growing demands. No doubt the importance of fertilizer production will increase more and more in a country like Japan because she must support the super-abundant population on such a too narrow and small island, and this will naturally lead to increasing demand for pumps, the supply of which is and will be depended on this Plant's production capacity.

(c) Cry for more coal is the utmost pressing problem of the moment in Japan in order to overcome the economic crisis with which she is now confronted. Due to the reckless mining during the war-time, most of the equipment - especially that of drainage pumping - inside coal-mines is on the verge of devastation, calling for urgent repairs. And so, this plant is now flooded with orders frow various mines for the supply of draining pumps and is striving for speedy fulfilment of these orders, thus taking a fair share in the great task of tiding over the existing coal crisis.

(d) The equipment of water-service as well as sewerage in towns and cities the one which is indispensable for public health and also for maintenance of people's minimum life. However for want of repairs during the war-time, many cases of out-of-order are reported to have occurred to the water-equipment everywhere in this country. Hence orders for now pumps are pouring in from many towns and cities, therby causing this plant very busy in the manufacture of pumping equipment.

...Teinosuke Ando.....

TEINOSUKE ANDO
Director and Manager of
TOYAMA PLANT
THE EBARA MFG. CO., LTD.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

THE EBARA MANUFACTURING CO., LTD.
TOYAMA PLANT

ENCLOSURE NO. 1 (complete)

List of Steam-Engines and Turbines manufactured in the Toyama Plant (1944 - 1945) :

PRIME MOVERS :

DESCRIPTION	H.P.	FIGURE	NUMBER
Steam-Engine	50	Single Cylinder Non Condensing	99
-"-	26	-"-	36
Steam-Turbine	90	5 nozzle	16
TOTAL			151 units

AS REFERENCE :

1. Data of circulating water pumps (Products in the Toyama Plant)

CAPACITY	TOTAL HEAD	NO. OF REVOLUTION	H.P.
a). 120 cub.m/min.	6.5 m	400 r.p.m.	45
b). 2,000 cub.m/min.	8 m	1,350 r.p.m.	90

2. Data of draft fans (Products in the parents plant)

CAPACITY	TOTAL HEAD	NO. OF REVOLUTION	H.P.
600 cub.m/min.	80 mm w.g.	400 r.p.m.	24

.....

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THE EBARA MANUFACTURING CO.,LTD.
TOYAMA PLANT

ENCLOSURE NO. 2
Composed of 4 pcs
Page 1

TRANSLATION

THE REPORT ON MANUFACTURING FACILITIES OF MACHINE TOOLS

Date: 27 Dec. 1941

Location: 200 Mukai-shinjo, Toyama-shi.

Name of Company: Asahi Precision Mfg.Co.,Ltd.
(Asahi Seiki Kogyo Kabushiki Kaisha)

Yuzo Araki

Director

Mr. Shinsuke Kishi
Minister of the Commercial and Industrial Department

In accordance with the II item regulation in supplementary rules of No. 96 ordinance issued by Commercial and Industrial Ministry in 1941, I beg to report and apply to be admitted to the examination as well as authorization for machinery and equipment, and enclose herewith the papers in due form.

An Account

1. Name and Location of Corporation at the time when the law No. 70 was promulgated in 1941 (3 March 1946).

   Name : Asshi Seiki Kogyo Kabushiki Kaisha

   Location : 200 Mukai-shinjo, Toyama-shi, Toyama-ken

2. Equipped Machine Tools and other Machinery as well as Capacity of Production.

(a) Machine Tools on hand.

In the Machine Shop

NO.of Machine.	Name of Machine	Form	Size	Makers	Year of Manufacture
1 - 18	Horizontal Lathe	Belt Driven	4.5'	Usuiseiki	1939
19 - 24	"	"	6'	Toyoseiki	"
25 - 26	"	"	12'	Hanniyaseisaku	1937
27 - 28	"	"	6'	Nishibayashi-Tekko	1933
29 - 38	"	"	"	Toyoseiki	1939
39	"	Direct Coupled with 5 H.P. Geared Motor	8'	Sonobe	1938
40 - 44	"	Belt Driven	8'	Toyoseiki	1939
45 - 46	"	"	12'	Sonobe	"
47	"	"	10'	Toyoseiki	"

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TOYAMA PLANT

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Composed 4 pcs.
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No.of Machine	Name of Machine	Form	Size	Makers	Year of Manufacture
48	Face Lathe	Belt Driven	1070 mm	Toyoseiki	1935
49	Turret Lathe	"	22 mm	Yoshikawa	"
50	Bench Lathe	"	2.5'	Usui Seiki	1938
51	Centering Machine	"	75 mm	Toyoseiki	1939
52	Vertical Drilling Machine	"	500 mm	Ogawa Tekko	1933
53	"	"	"	Rokuroku	"
54	Bench Drill	"	200 mm	"	"
55	Boring Machine	Direct Coupled with 5 H.P. M.	70 mm	Toyoseiki	1938
56 - 57	Horizontal Milling Machine	Belt Driven	#0	"	1937
58 - 60	"	"	#1	"	1939
61	"	"	#1½	Sonobe	1938
62	Vertical Milling Machine	"	"	Toyoseiki	1939
63	"	Direct Coupled with 2 H.P. M.	#1½	"	"
64	Universal Milling Machine	Direct Coupled with 3 H.P. M.	#2	"	"
65	Vertical Milling Machine	Belt Driven	#1½	Nishikawa	"
66	Universal Milling Machine	"	#2	Yoshikawa	1938
67	"	"	"	Toyoseiki	1939
68	Tool Grinder	"		Nishikawa	"
69	Hobbing Machine	"	680 mm	Sonobe	1938
70	Planer	"	6'	Toyoseiki	1939
71	"	"	8'	Nishikawa	1938
72	Shaper	"	500 mm	Hanniya Tekko	1937
73 - 74	"	"	"	Toyoseiki	1939
75	"	Direct Coupled with 5 H.P. M.	600 mm	Kushida	"
76 - 77	"	Belt Driven	"	Inasa	"
78	"	"	"	Toyoseiki	"
79	"	"	660 mm	"	"
80	Slotting Machine	"	840 mm	"	"

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In the Finishing Shop

No. of Machine	Name of Machine	Form	Size	Makers	Year of Manufacture
81	Radial Drilling Machine	Direct Coupled with 2 H.P. M.	1200 mm	Toyoseiki	1939
82 - 86	"	Belt Driven	500 mm	"	"
87	"	"	600 mm	"	"
88	"	"	700 mm	"	"
89 - 90	"	"	400 mm	"	"
91	Bench Drill	"	10 mm	Sonobe	1940
92 - 93	"	"	8 mm	"	1939
94	Universal Grinder	Direct Coupled with 3 H.P. M.	610 mm	Tajima	1938
95	Planer	Direct Coupled with 2 H.P. M.	300 mm	Norita	1939

In the Store House

96 - 97	Sawing Machine	Direct Coupled with 2 H.P. M.	150 mm	Rokuroku	1938-9
98	Radial Drilling Machine	Belt Driven	400 mm	Toyoseiki	1939

TOTAL ..... 98 in units

(b) Summarization OF Machine Tools.

Name of Machine	Number in Machine Shop	Number in Finishing	Number in Store House
Lathe	51		
Drilling Machine	3	13	1
Milling Machine	12		
Boring Machine	1		
Grinder	1	2	
Gear Hobbing Machine	1		
Planer	2		
Shaper	8		
Slotting Machine	1		
Sawing Machine			2
TOTAL	80	15	3
GRAND TOTAL			98

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(c) Other Machinery and Equipment

Name of Machine	Number
Hand Punch	1
Hardness Tester (Brinell)	1
Hardness Tester (Shore)	1
TOTAL	3 in units

: Following parts namely site of land and buildings are to be abbreviated this opportunity.

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Composed of 6 pcs.
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List of Machine Tools augmented or dispersed from the parent plant

No. of Machine	Name of Machine	Size	No. of Freight Car	Date of Arrival
1 (16)	Lathe	4.5'	Tora - 43887	15 Jan. 1945
2 (17)	"	"	"	"
3 (18)	"	"	"	"
4 (19)	"	"	"	"
5 (20)	"	"	Tomu - 16353	14 Jan. 1945
6 (21)	"	"	"	"
7 (22)	"	"	"	"
8 (23)	"	"	"	"
9 (24)	"	6'	Tora - 41329	11 March 1945
10 (25)	"	"	"	"
11 (26)	"	"	Tora - 1216	17 March 1945
12 (27)	"	"	Hamu - 23178	8 March 1945
13 (28)	"	"	Tomu - 7949	10 March 1945
14 (29)	"	"	"	"
15 (30)	"	"	"	"
16 (31)	"	"	"	"
17 (32)	"	"	"	"
18 (33)	"	"	Tora - 45488	4 Jan. 1945
19 (34)	"	"	Tora - 9083	5 March 1945
20 (55)	"	"	"	"
21 (56)	"	"	"	"
22 (57)	"	"	"	"
23 (58)	"	"	"	"
24 (59)	"	"	Tomu - 1142	13 March 1945
25 (65)	"	8'	Tora - 41493	9 March 1945
26 (66)	"	"	"	"
27 (69)	"	"	"	"
28 (70)	"	"	"	"

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No. of Machine	Name of Machine	Size	No.of Freight Car	Date of Arrival
29 (72)	Lathe	8'	Tora - 41493	9 March 1945
30 (73)	"	"	Tora - 45488	3 March 1945
31 (74)	"	"	"	"
32 (75)	"	"	"	"
33 (76)	"	"	Tora - 9083	5 March 1945
34 (77)	"	"	Tora - 43022	"
35 (78)	"	"	"	"
36 (79)	"	"	"	"
37 (86)	"	12'	Hato - 20010	16 March 1945
38 (87)	"	"	Roto - 5403	7 May 1945
39 (88)	"	"	Toki - 12603	7 March 1945
40 (89)	"	"	Tora - 45488	3 March 1945
41 (90)	"	14'	Tora - 41329	15 March 1945
42 (91)	"	25'	Tora - 7591	8 March 1945
43 (96)	"	1250 mm	Itora - 44104	14 Aug. 1944
44 (97)	"	"	unknown	5 March 1945
45 (98)	Vertical Lathe	1300 mm	unknown	7 March 1945
46 (99)	"	2300 mm	unknown	April 1945
47 (100)	"	2500 mm	Tomu - 19224	7 March 1945
48 (101)	Radial Drilling Machine	1000 mm	Hatomu- 20047	10 Nov. 1944
49 (102)	"	"	Hato - 23872	14 Oct. 1944
50 (104	"	"	Tora - 7591	8 March 1945
51 (105)	"	1.2 m	Tomu - 10353	14 Jan. 1945
52 (106)	"	1.5 m	Tora - 22282	5 March 1945
53 (107)	"	"	Tora - 21757	7 March 1945
54 (108)	"	2 m	Hato - 20010	16 March 1945
55 (109)	"	2.2 mm	Tora - 21753	7 March 1945
56 (120)	Upright Drilling Machine	20"	Rotomu- 9756	14 Jan. 1945

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No. of Machine	Name of Machine	Size	No.of Freight Car	Date of Arrival
57 (121)	Upright Drilling Machine	20"	Rotomu- 9756	14 Jan. 1945
58 (122)	"	24"	"	"
59 (123)	"	"	"	"
60 (133)	Horizontal Boring Machine	#2	Tora - 1743	12 May 1944
61 (134)	"	#3	Tora - 40431	15 March 1945
62 (135)	"	"	Tora - 1551	18 March 1945
63 (136)	"	"	Itora - 22338	10 Aug. 1944
64 (137)	"	"	Itora - 41139	10 Dec. 1944
65 (138)	"	#5	Tora - 8522	8 March 1945
66 (139)	"	"	7533	31 Jan. 1944
67 (140)	"	"	unknown	April 1945
68 (141)	"	#6	unknown	"
69 (142)	"	#7	unknown	"
70 (147)	Horizontal Drilling Machine	#1	Roto - 2391	14 Jan. 1945
71 (148)	"	#1	"	"
72 (149)	"	"	"	"
73 (150)	"	"	"	"
74 (153)	"	#2	"	"
75 (154)	Unit Miller		Tora - 22282	5 March 1945
76 (155)	"		"	"
77 (156)	Horizontal Milling Machine	#3	Hato - 20294	1 Aug. 1944
78 (159)	Vertical Milling Machine	#3	Toki - 12663	7 March 1945
79 (160)	"	"	20953	23 Aug. 1944
80 (161)	"	"	Hatomu- 20047	10 Nov. 1944
81 (165)	Universal Milling Machine	#2	Roto - 2391	14 Jan. 1945
82 (166)	"	"	"	"
83 (167)	"	#3	Hamu - 27112	8 March 1945
84 (168)	"	"	To - 24508	11 March 1945

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THE EBARA MANUFACTURING CO.,LTD.
TOYAMA PLANT

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No. of Machine	Name of Machine	Size	No. of Freight Car	Date of Arrival
85 (169)	Universal Milling Machine	#3	Tora - 6980	7 Feb. 1945
86 (170)	Key Miller	156X65	Namu - 23178	8 March 1945
87 (171)	Surface Grinder	250	Tora - 3376	7 May 1945
88 (173)	"	450	"	"
89 (175)	Cylindrical Grinder	1000	Tora - 16330	10 March 1945
90 (176)	Internal Grinder	140X300	"	"
91 (177)	"	M -100	Tora - 21757	7 March 1945
92 (178)	Cylindrical Grinder	2000	unknown	
93 (179)	Universal Grinder	1000	Namu - 23178	8 March 1945
94 (180)	Gear Lapping Machine	180	Tomu - 1142	13 March 1945
95 (181)	Tooth Rounding Machine	16"	"	"
96 (182)	Horizontal Boring Machine		Tora - 2776	12 March 1945
97 (183)	"		Tora - 43022	5 March 1945
98 (184)	"		"	"
99 (185)	Hobbing Machine	14"	To - 24271	6 March 1945
100 (186)	"	"	"	"
101 (187)	"	500	Namu - 27112	8 March 1945
102 (189)	"	125X380	Tomu - 7949	10 March 1945
103 (190)	"	800	Tora 3376	7 May 1945
104 (191)	"	24"	To - 24508	11 March 1945
105 (192)	"	"	Tora - 8522	8 March 1945
106 (193)	"	"	25017	6 Sep. 1944
107 (194)	"	"	"	"
108 (195)	"	"	Tora - 7591	8 March 1945
109 (196)	"	1000	Tomu - 1142	13 March 1945
110 (197)	"	750	Tora - 3376	7 May 1945
111 (198)	Gear Shaper		Tora - 41329	13 March 1945
112 (199)	"		Tora - 21757	7 March 1945

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EBARA MANUFACTURING CO., LTD.
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No. of Machine	Name of Machine	Size	No. of Freight Car	Date of Arrival
113 (200)	Gear Cutting Machine		Tora - 22282	6 March 1945
114 (201)	Bevel Gear Shaper	18"	Tora - 21841	12 May 1944
115 (203)	Planer	6'	Tora - 7819	9 March 1945
116 (204)	"	8'	Tomu - 20279	11 March 1945
117 (206)	"	"	Tora - 1350	7 March 1945
118 (207)	"	"	Tomu - 20297	11 March 1945
119 (208)	"	12'	Tomu - 19856	13 March 1945
120 (209)	"	"	Tomu - 20847	"
121 (210)	"	14'	Tomu - 17365	"
122 (211)	" (open)	12'	Tomu - 9285	9 March 1945
123 (212)	Shaping Machine	18"	Tora - 21753	7 March 1945
124 (220)	"	24"	Namu - 27112	8 March 1945
125 (221)	"	"	"	"
126 (222)	"	"	Tomu - 19224	7 March 1945
127 (224)	"	28"	Tora - 21753	"
128 (225)		32"	unknown	"
129 (227)	Slotting Machine	8"	Tomu - 7949	10 March 1945
130 (228)	"	12"	unknown	7 March 1945
131 (229)	"	"	To - 23389	4 March 1945
132 (230)	"	16"	Hato - 20359	21 Nov. 1944
133 (231)	"	520	Tora - 22282	6 March 1945
134 (235)	Vertical Milling Machine	#2	Tora - 7591	8 March 1945
135 (500)	Tool Grinder	8"	To - 15823	7 July 1945
136 (507)	"	14"	"	"
137 (508)	"	"	"	"
138 (509)	"	"	"	"
139 (510)	Cutter Grinder	6"	Toki - 12663	7 March 1945
140 (511)	"		Tora - 44650	"

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Composed of 6 pcs.
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No. of Machine	Name of Machine	Size	No. of Freight Car	Date of Arrival
141 (512)	Cutter Grinder	6"	Tora - 44650	7 March 1945
142 (513)	"		"	"
TOTAL		142 in units		

After Surrender:

No. of Machine	Name of Machine	Size	No. of Freight Car	Date of Arrival
1 (93)	Vertical Lathe	850	Roto - 15369	14 March 1946
2 (94)	"	"	Tora - 11588	15 March 1946
3 (95)	"	"	Tomu - 5860	21 March 1946
4 (236)	Horizontal Lathe	12'	To - 6070	18 Nov. 1946
5 (237)	"	"	Tomu - 12053	15 Nov. 1946
6 (238)	"	"	"	"
7 (239)	"	8'	Tomu - 343	19 Nov. 1946
8 (240)	"	6'	"	"
9 (545)	Tool Grinder	14"	Tomu - 343	19 Nov. 1946
10 (546)	"	"	"	"
TOTAL		10 in units		

GRAND TOTAL ..... 152 in units

NOTE:
(1) Figures in parenthesisses show the no. of machine in our plant

(2) Other machines and equipment are abbreviated in order to avoiding from complexity.

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EBARA MANUFACTURING CO.,LTD.
TOYAMA PLANT

ENCLOSURE NO. 4
Composed of 4 pcs.
Page 1

LIST OF MACHINE TOOLS INDISPENSABLE FOR PRODUCTION OF PUMPS

No. of Machine	Name of Machine	Size	Year of Manufacture	Makers
1 (1)	Lathe	4.5'	1940	Ebara
2 (2)	"	"	"	"
3 (3)	"	"	"	"
4 (4)	"	"	"	"
5(24)	"	6'	1942	"
6(25)	"	"	"	"
7(36)	"	"	1939	Toyo-Kikai
8(38)	"	"	"	"
9(39)	"	"	"	"
10(40)	"	"	"	"
11(58)	"	"	1940	Kubota
12(59)	"	"	"	"
13(65)	"	8'	1942	Ebara
14(72)	"	"	1941	Kubota
15(73)	"	"	"	"
16(74)	"	"	"	"
17(75)	"	"	"	"
18(76)	"	"	"	"
19(77)	"	"	"	"
20(78)	"	"	"	"
21(79)	"	"	"	"
22(80)	"	10'	1939	Toyo-Kikai
23(81)	"	12'	"	Sonobe
24(82)	"	"	"	"
25(83)	"	"	"	"

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EBARA MANUFACTURING CO., LTD.
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No. of Machine	Name of Machine	Size	Year of Manufacture	Makers
26 (84)	Lathe	12'	1939	Sonobe
27 (88)	"	"	1941	Wakayama
28 (90)	"	14'	1944	Fuji
29 (93)	Vertical Lathe	850 mm	"	Ebara
30 (94)	"	"	"	"
31 (96)	"	1250 mm	1935	Kisha-Kaisha
32 (98)	"	1300 mm	1944	Ebara
33 (99)	"	2300 mm	1938	Schiess
34 (100)	"	2500 mm	1944	Ebara
35 (106)	Radial Drilling Machine	1.5 m	"	Dainihon-Koki
36 (107)	"	"	1940	Rokuroku
37 (108)	"	2 m	1935	Raboma
38 (109)	"	2.2 m	1940	Ōkuma
39 (120)	Upright Drilling Machine	20"	1941	Seikenki
40 (121)	"	"	"	"
41 (122)	"	24"	"	"
42 (123)	"	"	"	"
43 (127)	Bench Drill		1939	Seiko-Doriru
44 (128)	"		"	Kawaguchi
45 (129)	"		"	Seiko-Doriru
46 (132)	Horizontal Boring Machine	#3	1944	Kokisha
47 (134)	"	"	"	Dainihon-Koki
48 (135)	"	"	1935	Karatsu
49 (136)	"	"	"	"
50 (137)	"	"	1941	Daido
51 (140)	"	#5	1935	Karatsu
52 (142)	"	#7	"	Schiess
53 (152)	Horizontal Milling Machine	#2	1939	Sonobe

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No. of Machine	Name of Machine	Size	Year of Manufacture	Makers
54 (158)	Vertical Milling Machine	#1	1939	Sonobe
55 (159)	"	#3	1944	Hitachi
56 (166)	Universal Milling Machine	#2	1941	Motoe
57 (167)	"	#3	1944	Karatsu
58 (170)	Key Miller	156X65	"	Rokuroku
59 (173)	Surface Grinder	450	1940	Kobayashi
60 (174)	Cylindrical Grinder	800	1939	Tajima
61 (176)	Internal Grinder	140X300	1940	Heald
62 (177)	"	M- 100	"	Mikuro
63 (178)	Cylindrical Grinder	2,000	"	Hokushin
64 (179)	Universal Grinder	1,000	1941	Ōtsuka
65 (180)	Gear Rapping Machine	180	"	Okamoto
66 (181)	Tooth Rounding Machine	16".	"	"
67 (187)	Hobbing Machine	500	1940	Pfauter
68 (189)	"	125X380	"	"
69 (190)	"	800	"	Niles
70 (196)	"	1,000	"	Pfauter
71 (197)	"	750	"	"
72 (198)	Gear Shaper		"	Fellows
73 (201)	Bevel Gear Shaper	18"	"	Ōya
74 (204)	Planer	8'	1941	Namba
75 (205)	"	"	"	Toyo-Kikai
76 (207)	"	"	1935	Nakagawa
77 (208)	"	12'	1941	Toyo-Kikai
78 (210)	"	14'	1944	Matsumoto
79 (220)	Shaping Machine	24"	1935	Nakagawa
80 (221)	"	"	"	"
81 (224)	"	28"	"	Gold

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No. of Machine	Name of Machine	Size	Year of Manufacture	Makers
82 (225)	Shaping Machine	32"	1941	Nakagawa
83 (226)	Slotting Machine	6"	1939	Toyo-Kikai
84 (228)	"	12"	"	Nakagawa
85 (230)	"	16"	1944	Sudo
86 (232)	Sawing Machine	14"	1939	Toyo-Kikai
87 (233)	"	"	"	"
88 (235)	Vertical Milling Machine	#2	1945	Tsubota
89 (236)	Horizontal Lathe	12'	1941	Dainihon-Koki
90 (237)	"	"	"	"
91 (238)	"	"	"	"
92 (239)	"	8'	1940	Ikegai
93 (240)	"	"	"	Shimamoto

TOTAL ..... 93 in units

(N.B.)

Figures in Parenthesisses show the No. in our Plant.

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EBARA MANUFACTURING CO., LTD.
TOYAMA PLANT

ENCLOSURE NO. 5
Composed of 3 pcs.
Page 1

LIST OF MACHINERY AND EQUIPMENT FOR PRODUCTION OF PUMPS
(EXCLUDE MACHINE TOOLS)

No. of Machine	Name of Machine	Size	Year of Manufacture	Makers
1 (501)	Tool Grinder	10"	1939	Mizuho-Denki
2 (502)	"	"	"	"
3 (503)	"	"	"	"
4 (504)	"	"	"	"
5 (505)	"	"	"	"
6 (506)	"	14"	1940	Rokuroku
7 (507)	"	"	"	"
8 (508)	"	"	"	"
9 (509)	"	"	"	"
10 (511)	Cutter Grinder		1938	Pfauter
11 (514)	Welding Machine (arc)	15 H.P.	1943	Hitachi
12 (515)	"	"	"	"
13 (518)	Air Compressor	50 H.P.	1938	Ebara
14 (527)	Shore Hardness Tester		1940	Tokyo-Shikenki
15 (528)	Cranes	10 tons	1943	Nihon-Kijuki
16 (529)	"	5 tons	1938	Yamamoto-Kijuki
17 (530)	"	"		"
18 (531)	"	"	1940	"
19 (533)	Hoists	1 tons	1937	Hitachi
20 (534)	"	"	"	"
21 (535)	"	"	1940	Fuji-Denki
22 (536)	"	"	1935	Hitachi
23 (537)	Chain Blocks	1½ ton	1941	Unknown
24 (538)	"	2 tons	1940	"

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THE OHARA MANUFACTURING CO., LTD.
TOYAMA PLANT

ENCLOSURE NO. 5
Composed of 3 pcs.
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No. of Machine	Name of Machine	Size	Year of Manufacture	Makers
25 (539)	Crain	1 ton		Unknown
26 (540)	Cupolas	2 tons	1943	Ebara
27 (541)	"	1 ton	"	"
28 (542)	"	"	1946	"
29 (543)	Sand Mill		1943	Taiyo-Chuki
30 (545)	Tool Grinder	14"	1940	Rokuroku
31 (546)	"	"	"	"
32 (547)	Coaling Machine	2 H.P.	1944	Daito-Kenshoki
33 (548)	"	"	"	"
34 (601)	Transformers	100 KVA	1941	Meidensha
35 (602)	"	"	"	"
36 (603)	"	"	"	"
37 (604)	"	50 KVA	1944	Osaka-Kenatsuki
38 (605)	"	"	"	"
39 (606)	"	"	"	"
40 (607)	"	"	"	"
41 (608)	"	"	"	"
42 (609)	"	"	"	"
43 (610)	"	"	"	"
44 (611)	"	"	"	"
45 (612)	"	"	"	"
46 (613)	"	40 KVA	1941	Meidensha
47 (614)	"	"	"	"
48 (615)	"	"	"	"
49 (616)	"	20 KVA	1944	Osaka-Kenatsuki
50 (617)	"	"	1941	Meidensha
51 (618)	"	15 KVA	"	"
52 (619)	"	"	1944	Osaka-Kenatsuki

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THE EBARA MANUFACTURING CO., LTD.
TOYAMA PLANT

ENCLOSURE NO. 5
Composed of 3 pcs.
Page 3

No. of Machine	Name of Machine	Size	Year of Manufacture	Makers
53 (620)	Transformers	15 KVA	1944	Osaka-Henatsuki
54 (621)	"	"	"	"
55 (622)	Electric Motors	10 H.P.		Fuji-Denki
56 (623)	"	"		"
57 (624)	"	15 H.P.		Shibaura
58 (625)	"	5 H.P.		Meidensha
TOTAL		58 in units		

(N.B.)
Figured in parenthesisses show the No. in our Plant.

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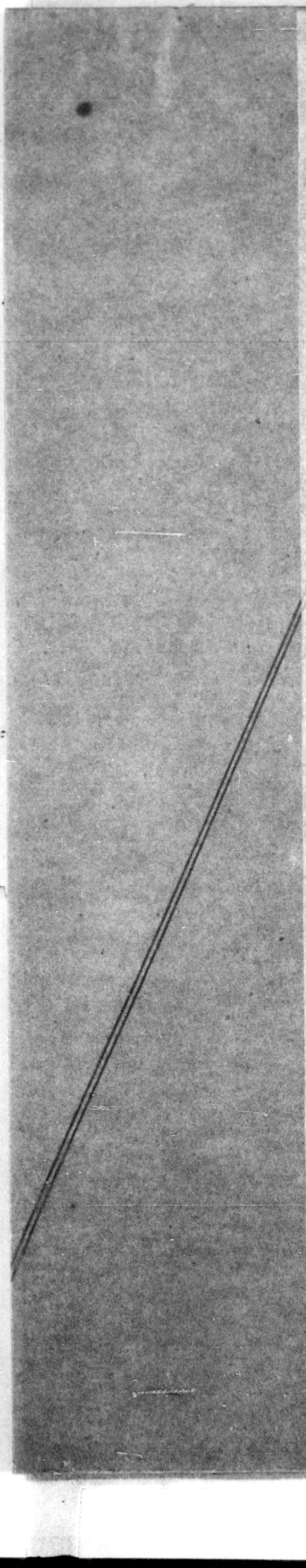

No. of Bldg.	Name of Bldg.
1	No.1 Machine Shop
2	Finishing Shop
3	No.2 Machine Shop
4	Plate Work Shop
5	Testing Shop
6	Foundry Shop
7	Pattern Work Shop
8	Store House and Sawing Shop
9	Electric Substation
10	Boiler Room
11	Main Office
12	Office for Shops
13	Store House
14	Garage
15	Dispensary
16	Gards' Room
17	Store House
18	Dining Hall
19	Bath House
20	Boiler Room
21	Store House for Oil
22	Store House for Paper
23	Steel Bar Yard
24	Inspecting House
25	Tool Room
26	Forging Shop
27	Scrap Yard
28	Office for Foundry Shop
29	Store House

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OUTLINE SK

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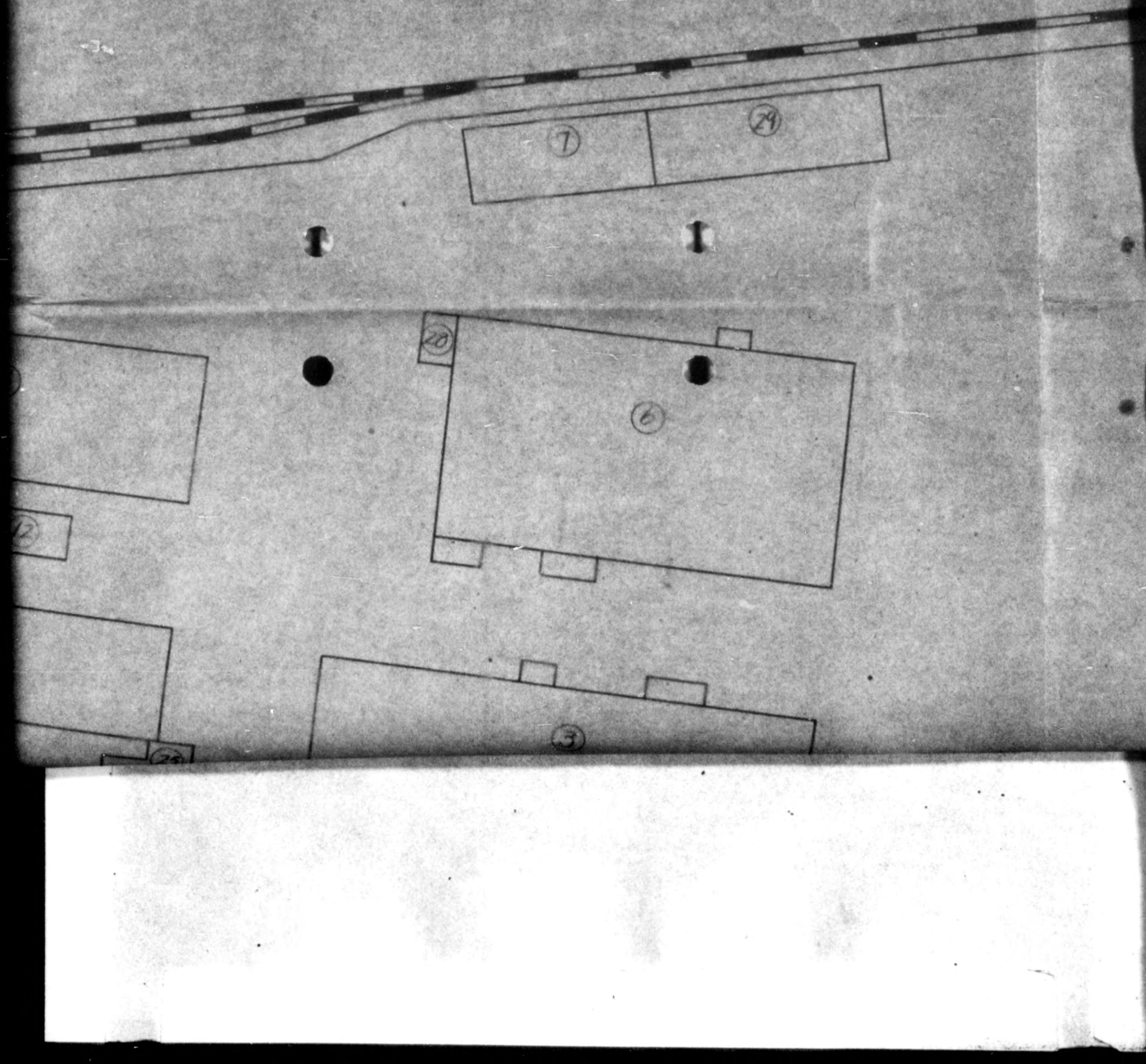
SKETCH OF TOYAMA PLANT

HE EBARA MFG CO., LTD.



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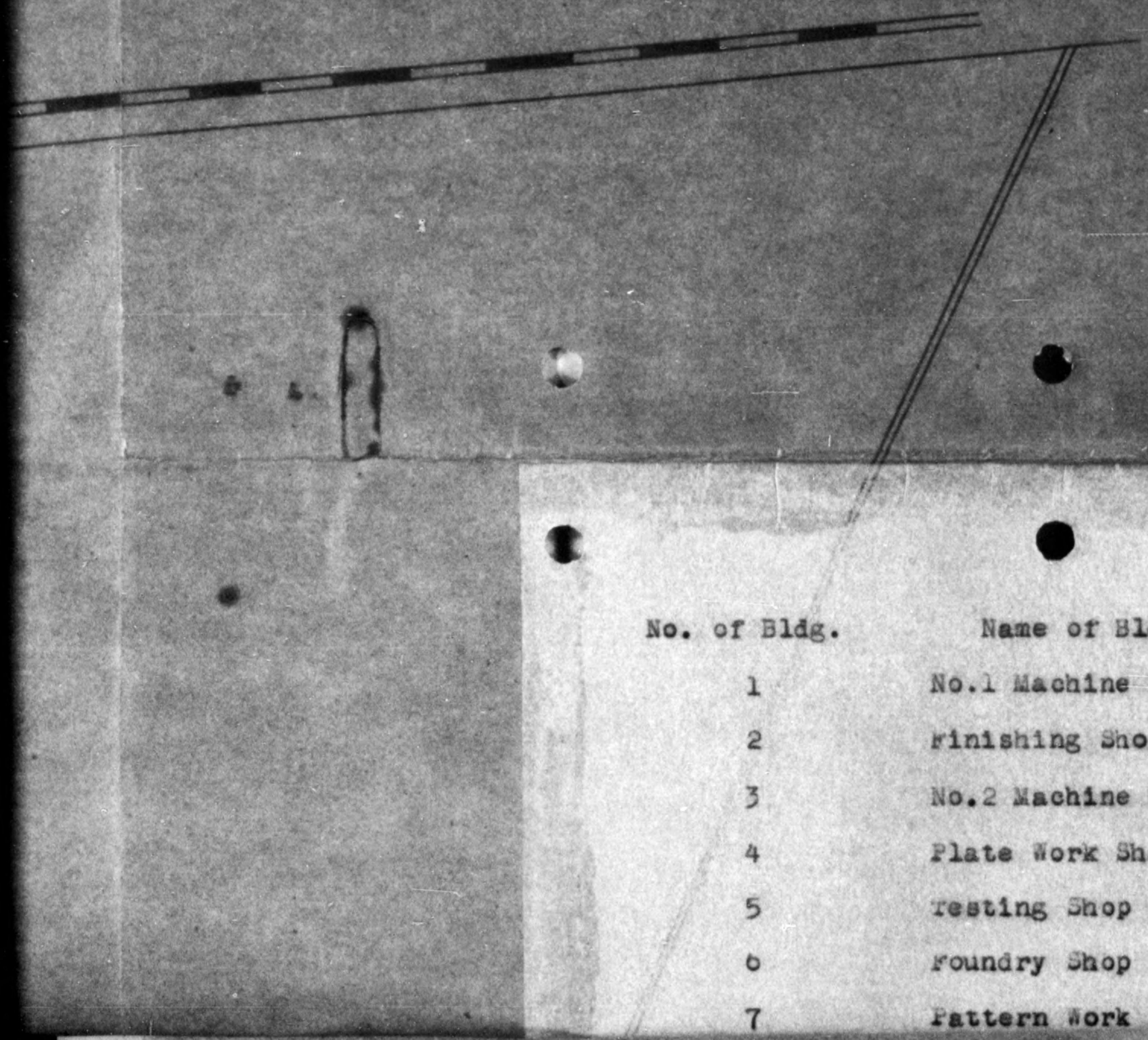

No. of Bldg.	Name of Bldg.
1	No.1 Machine Shop
2	Finishing Shop
3	No.2 Machine Shop
4	Plate Work Shop
5	Testing Shop
6	Foundry Shop
7	Pattern Work Shop

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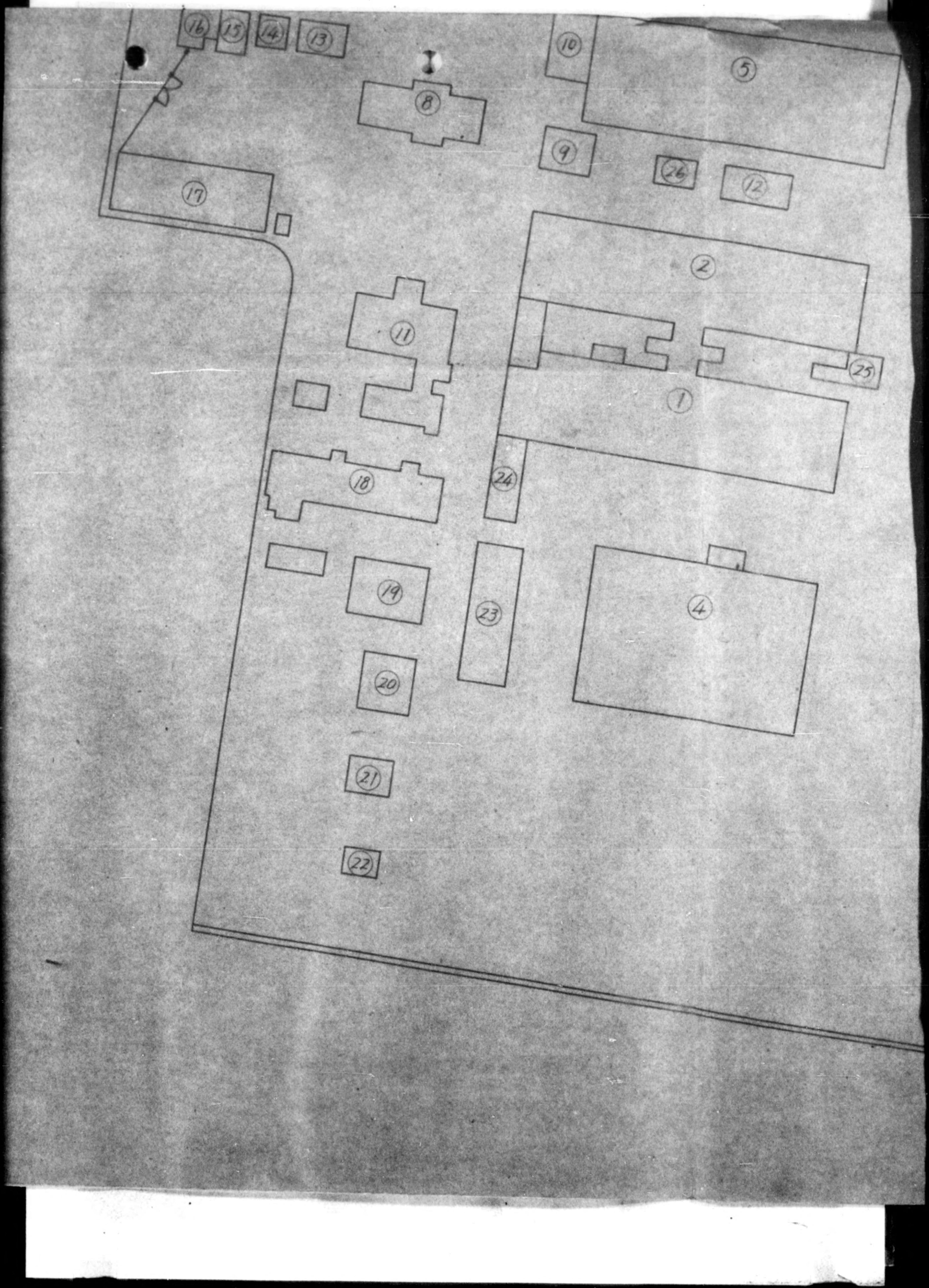
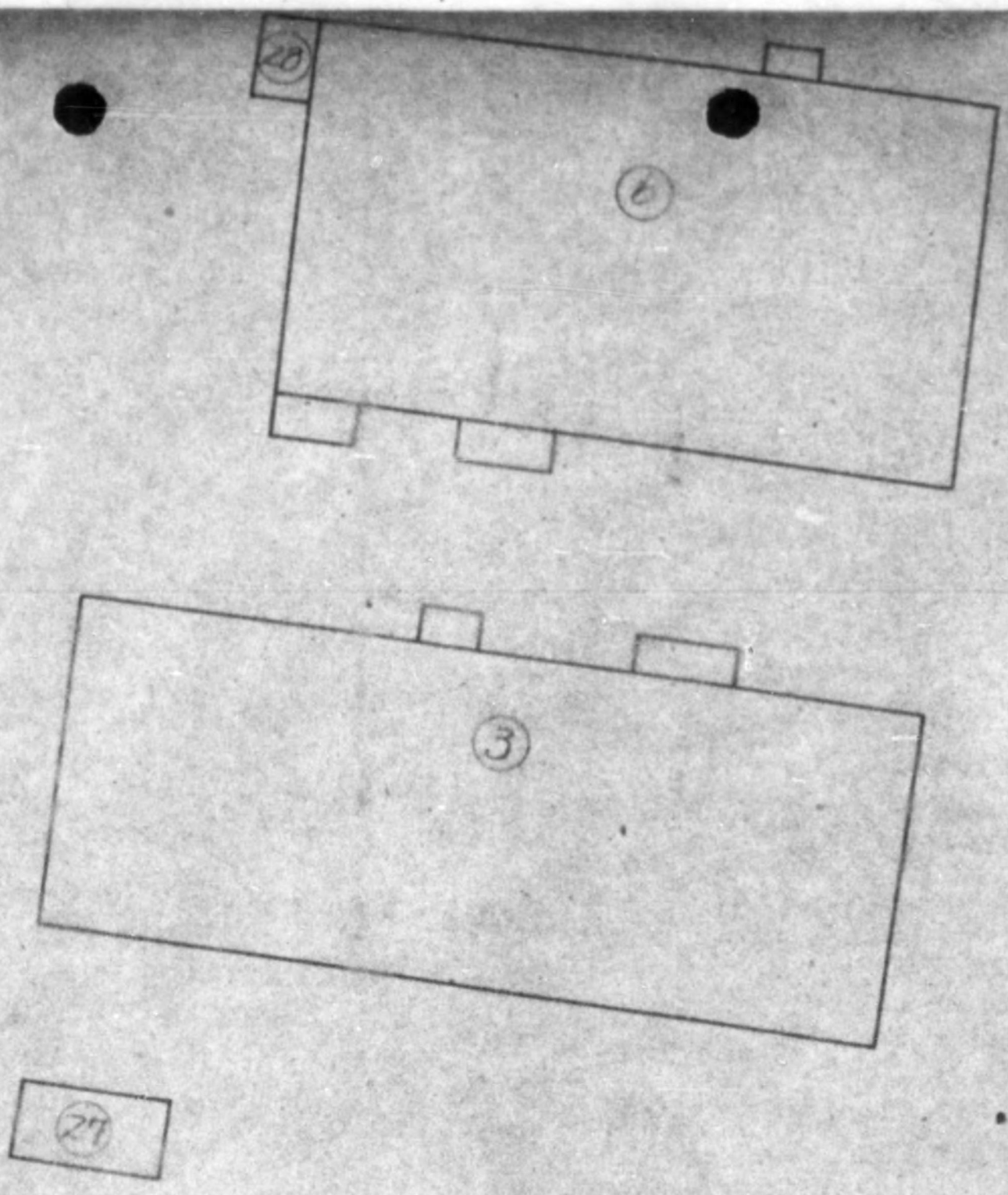
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