DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

BASIC: Ltr, Hq Toyama Mil Govt Team, subj: "Exclusion of Reparational Land & Buildings", dtd 20 Feb 47

1st Ind GNM/ss

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

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

This headquarters recommends that the machines under custody and control in the Fukuno Plant be assembled in the Eastern Shop, and the land and buildings not needed for custody and control of these machines be released to the Home Ministry for return to its rightful owner.

FOR THE COMMANDING OFFICER:

FRANK M. WILKINS
Maj FA
Adjutant

1 Incl:
n/c
1cc w/d

AG 004 - BA 2nd Ind EHN/jyn

Hq I Corps, APO 301, 1 MAR 194

TO: CO, Tokai-Hokuriku Mil Govt Region, APO 710

1. The Kureha Industrial Co., Furuno Plant, is authorized to move the 261 machines which are located at present in the "First Machine Shop," to the main area of the plant, known as the "Eastern Shop."

2. The land and buildings of the Kureha Industrial Company, Fukuno Plant, which are not required for custody and control of reparations equipment may be released to the Home Ministry, provided that this is not an enemy installation as defined in Operational Directive No. 28, Headquarters Eighth Army, dated 18 November 1945.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

BASIC: Ltr, Hq Toyama Mil Govt Team, subj: "Exclusion of Reparational Land and Buildings", dtd 20 Feb 47

AG 004 - BA 2nd Ind EHN/jyn

Hq I Corps, APO 301, 1 Mar 47

TO: CO, Tokai-Hokuriku Mil Govt Region, APO 710

1. The Kureha Industrial Co., Furuno Plant, is authorized to move the 261 machines which are located at present in the "First Machine Shop," to the main area of the plant, known as the "Eastern Shop".

2. The land and buildings of the Kureha Industrial Company, Fukuno Plant, which are not required for custody and control of reparations equipment may be released to the Home Ministry, provided that this is not an enemy installation as defined in Operational Directive No. 28, Headquarters Eighth Army, dated 18 November 1945.

3. In the event that this is an enemy installation, the release must be accomplished in accordance with the provisions of paragraph 3, Operational Directive No. 28/12 for 1945, Headquarters Eighth Army, dated 8 July 1946.

BY COMMAND OF MAJOR GENERAL WOODRUFF:

/s//t/ H. B. TAYLOR
Major, AGD
Asst Adj Gen

1 Incl:
n/c

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

BASIC: Ltr, Hq, Toyama Mil Govt Team, subj: "Fxclusion of Reparational Land & Buildings," dtd 20 Feb 47.

3. In the event that this is an enemy installation, the release must be accomplished in accordance with the provisions of paragraph 3, Operational Directive No. 28/12 for 1945, Headquarters Eighth Army, dated 8 July 1946.

BY COMMAND OF MAJOR GENERAL WOODRUFF:

M. E. TAYLOR
MAJOR, A.G.D.
ASST. ADJ. GEN.

1 Incl:
n/c

3rd Ind GNM/ss

Hq Tokai-Hokuriku Mil Govt Region, APO 710, 3 Mar 47

TO: CO, Toyama Mil Govt Team, APO 713

For your information and compliance with 2nd indorsement.

BY ORDER OF COLONEL BURNELL:

FRANK M. WILKINS
Maj FA
Adjutant

1 Incl:
n/c

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

BASIC: Ltr, Hq Toyama Mil Govt team, subj: "Exclusion of Reparational Land and Buildings", dtd 20 Feb 47

3rd Ind GNM/ss

Hq Tokai-Hokuriku Mil Govt Region, APO 710, 3 Mar 47

TO: CO, Toyama Mil Govt Team, APO 713

For your information and compliance with 2nd indorsement.

BY ORDER OF COLONEL BURNELL:

FRANK M. WILKINS
Maj FA
Adjutant

1 Incl:
n/c

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

Feb. 19, 1947

TO : Headquarters, Toyama Military Government Team.

FROM : Fukuno Plant, Nureha Industry Co.,Ltd.
No.100 Fukuno-machi, Higashi Tonami-gun,
Toyama Pref.

THROUGH: Toyama Prefectural Government.

SUBJECT: Application for Removal of Reparations Machines to be done in the interior of the Plant.

The listed 261 units of reparations machines in the Annex No.1 exist actually in the 1st Machine Shop with red oblique line in the Annex No.2. As a result of being this shop at the outside of the main site of our plant, we are used to meet with much obstacle often for the custody & guard of these machines.

Moreover, this factory's structure is rented by Etohu Orimono Co.,Ltd. (a cotton & rayon textile factory) for the Fukuno Plant's use since Dec.,1943. Meanwhile, the lessee recently has applied us for retrocession of this structure with purposes of his own use. Consequently, we have project to remove these 261 units of reparations machines which are in the 1st Machine Shop to the Eastern Shop shown with blue perpendicular line, of the main site in Annex No.2.

We request you grant us permission for the removal to be done in the interior of the plant and the use of all the machines in our plant.

Signed S. Nakajima
SHUNSAKU NAKAJIMA

Factory-Master.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

Annex No. 1

Reparations Machines
installed The 1st Machine Shop

Fukuno Plant of
Kureha Industry Co.,Ltd.

Code Number	Name of Machine	Quantity
42-2-14~24	Lathe	11
42-2-26~72	"	47
42-2-25	Relieving Lathe	1
42-2-78~85	Turret Lathe	8
42-2-95	Bench Drilling Machine	1
42-2-97~98	"	2
42-2-100~103	"	4
42-2-106~156	"	51
42-2-177~179	Horizontal Milling Machine	3
42-2-183	"	1
42-2-163~171	Vertical Drilling Machine	9
42-2-174	Multi-spindle Drilling Machine	1
42-2-180~182	Vertical Milling Machine	3
42-2-187~190	"	4
42-2-185~186	Vertical Milling Machine, Bed type	2
42-2-191	Universal Grinder	1
42-2-192	Surface Grinder	1
42-2-193	Internal Grinder	1
42-2-448	"	1
42-2-194	Cylindrical Grinder	1
42-2-196	Tool Grinder	1
42-2-203~209	Grinder, double head	7
42-2-212~214	"	3

(Cont'd)

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

Code Number	Name of Machine	Quantity
42-2-216~224	Grinder, double head	9
42-2-264~266	Abrasive Cutter	3
42-2-239	Planer	1
42-2-244~245	Shaper	2
42-2-251	Hack Saw	1
42-2-254~255	Thread Milling Machine	2
42-2-253	Centering Machine	1
42-2-258~261	Slotter	4
42-2-252	Thread Lathe	1
42-2-287~292	Motor Press	6
42-2-294~295	Punching Machine	2
42-2-296~297	Friction Press	2
42-2-300	Eccentric Press	1
42-2-302~308	Manual Press	7
42-2-309	"	1
42-2-317~323	Bending Machine	7
42-2-330~331	Circular Saw	2
42-2-333~344	Lever Shear	12
42-2-345~348	Rivetting Machine	4
42-2-349~350	Roller	2
42-2-351~352	Bending Machine	2
42-2-353	"	1
42-2-377~378	Furnace	2
42-2-375~376	Gas Producer, Charcoal	2
42-2-360~361	Scroll Sawing Machine	2
42-2-370	Gas Producer, Acetylene	1
42-2-425	Transformer	1
42-2-429	"	1

(Cont'd)

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

Code Number	Name of Machine	Quantity
42-2-430	Transformer	1
42-2-431	"	1
42-2-210~211	Grinder, double head	2
42-2-215	"	1
42-2-73 ~ 77	Turret Lathe	5
42-2-99	Bench Drilling Machine	1
42-2-104~105	"	2
42-2-162	Vertical Drilling Machine	1
42-2-172	"	1
	Total	261

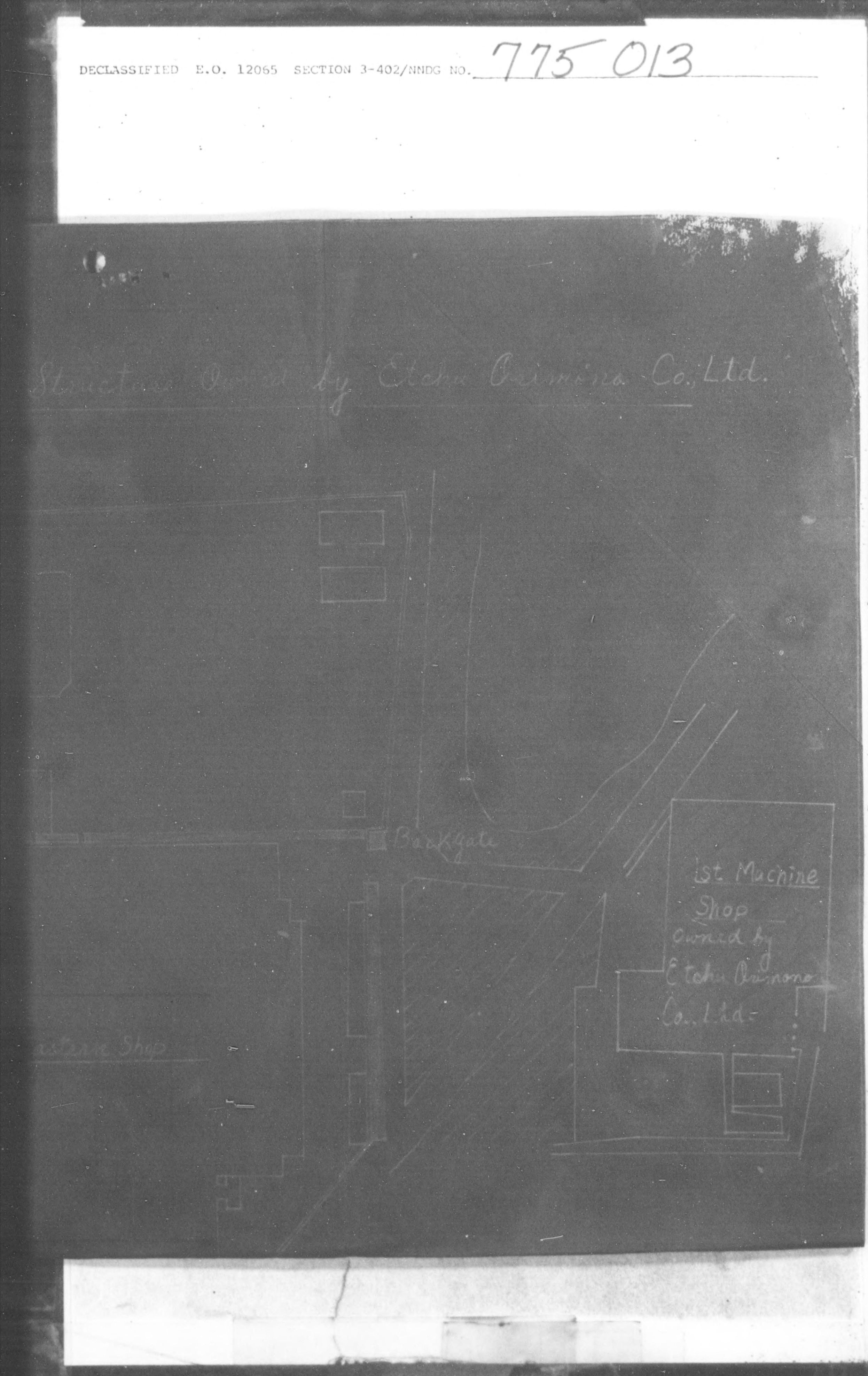
DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

Annex No. 2

Plan of The Fulton Plant

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013



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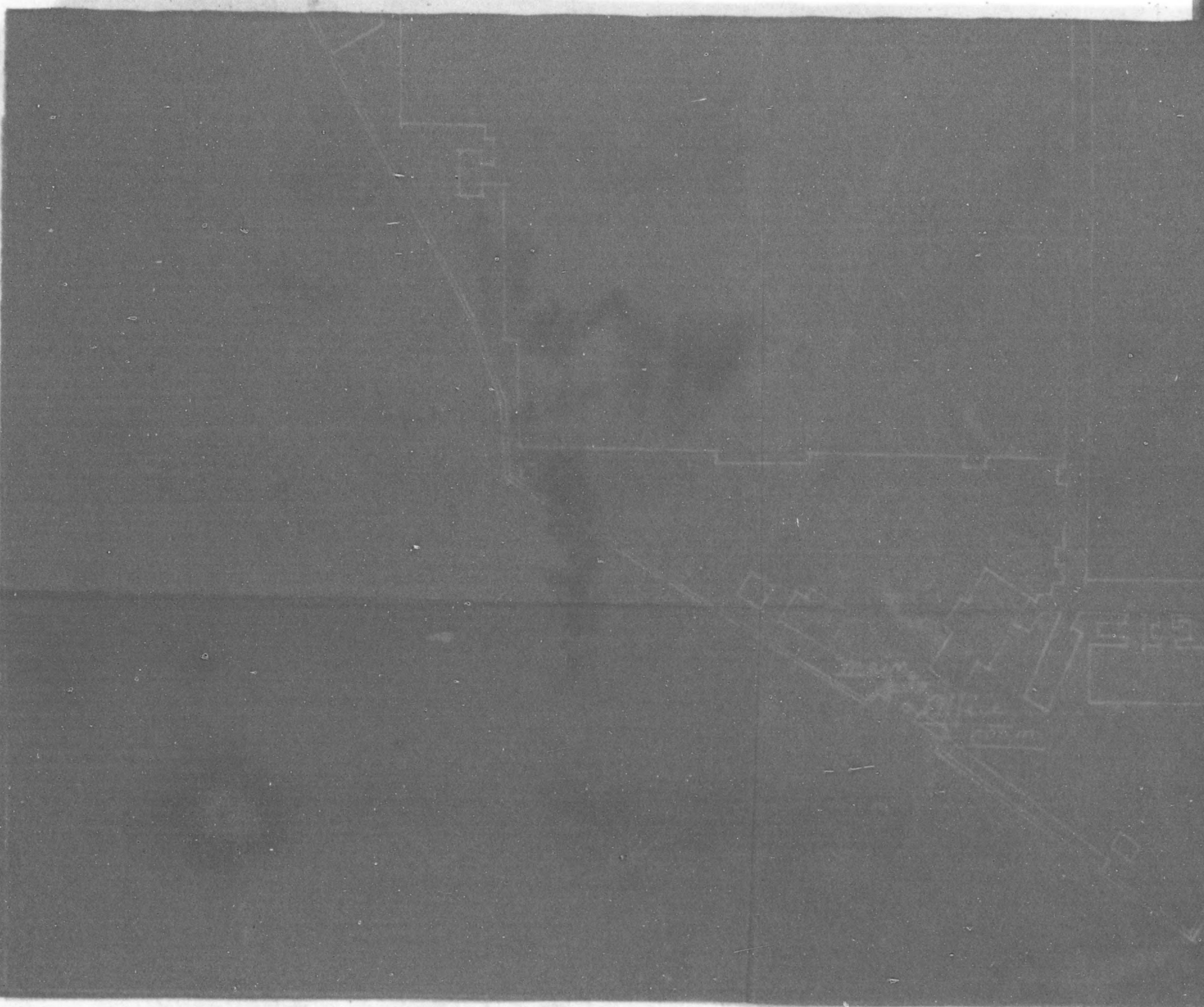

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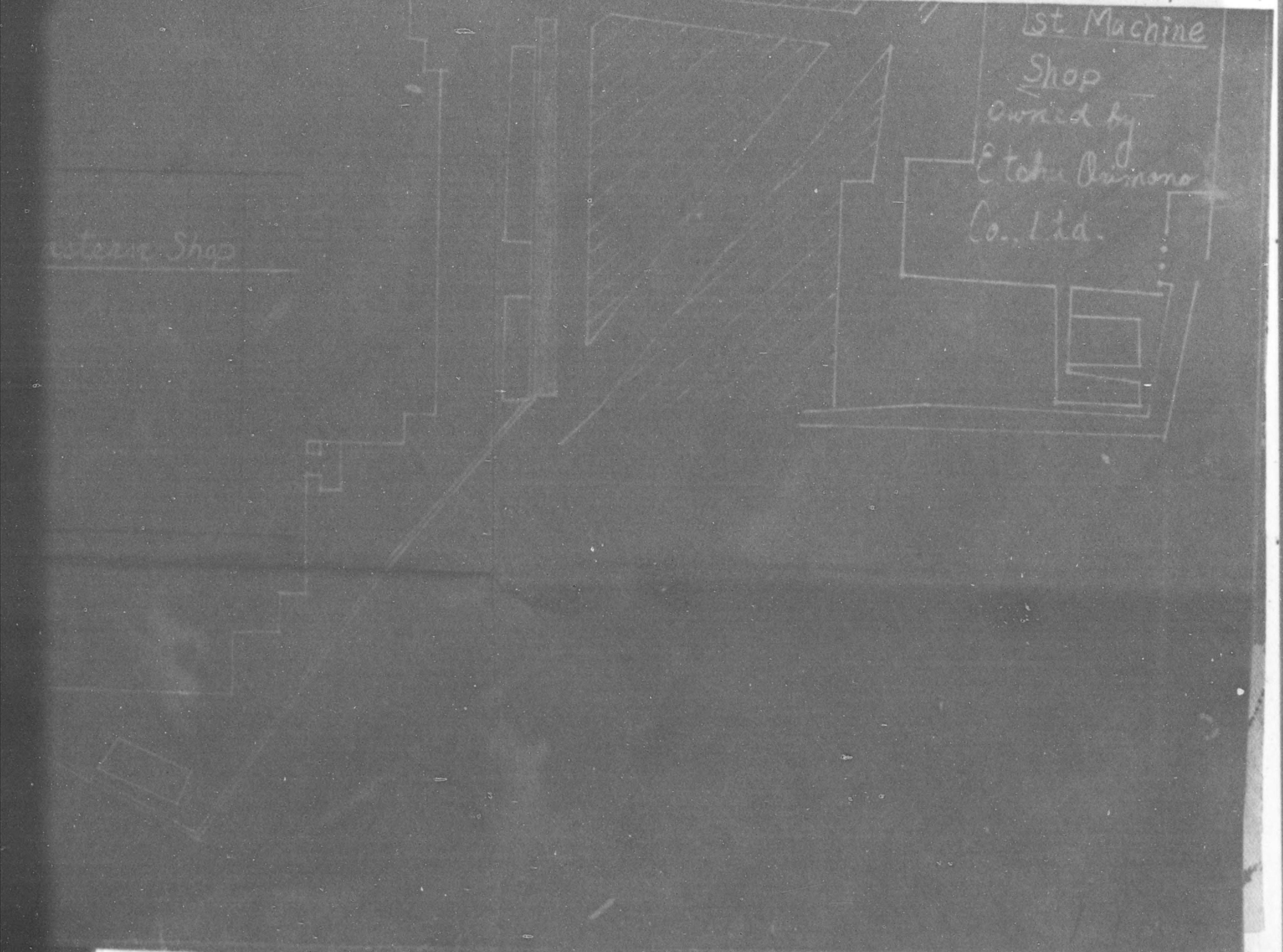

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

Feb. 19, 1947

TO : Headquarters, Toyama Military Government Team.

FROM : Fukuno Plant, Kureha Industry Co.,Ltd.
No.100 Fukuno-machi, Higashi Tonami-gun,
Toyama Pref.

THROUGH: Toyama Prefectural Government.

SUBJECT: Application for Removal of Reparations Machines to be done in the interior of the Plant.

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Moreover, this factory's structure is rented by Etchu Orimono Co.,Ltd. (a cotton & rayon textile factory) for the Fukuno Plant's use since Dec.,1943. Meanwhile, the lessee recently has applied us for retrocession of this structure with purposes of his own use. Consequently, we have project to remove these 261 units of reparations machines which are in the 1st Machine Shop to the Eastern Shop shown with blue perpendicular line, of the main site in Annex No.2.

We request you grant us permission for the removal to be done in the interior of the plant and the use of all the machines in our plant.

Signed S. Nakajima
SHUNSAKU NAKAJIMA
Factory-Master.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

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Kureha Industry Co.,Ltd.

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42-2-187~190	"	4
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42-2-192	Surface Grinder	1
42-2-193	Internal Grinder	1
42-2-448	"	1
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42-2-203~209	Grinder, double head	7
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DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

Code Number	Name of Machine	Quantity
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42-2-251	Hack Saw	1
42-2-254~255	Thread Milling Machine	2
42-2-253	Centering Machine	1
42-2-258~261	Slotter	4
42-2-252	Thread Lathe	1
42-2-287~292	Motor Press	6
42-2-294~295	Punching Machine	2
42-2-296~297	Friction Press	2
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42-2-309	"	1
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42-2-345~348	Rivetting Machine	4
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42-2-351~352	Bending Machine	2
42-2-353	"	1
42-2-377~378	Furnace	2
42-2-375~376	Gas Producer, Charcoal	2
42-2-360~361	Scroll Sawing Machine	2
42-2-370	Gas Producer, Acetylene	1
42-2-425	Transformer	1
42-2-429	"	1

(Cont'd)

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

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42-2-73~77	Turret Lathe	5
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42-2-104~105	"	2
42-2-162	Vertical Drilling Machine	1
42-2-172	"	1
	Total	261

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

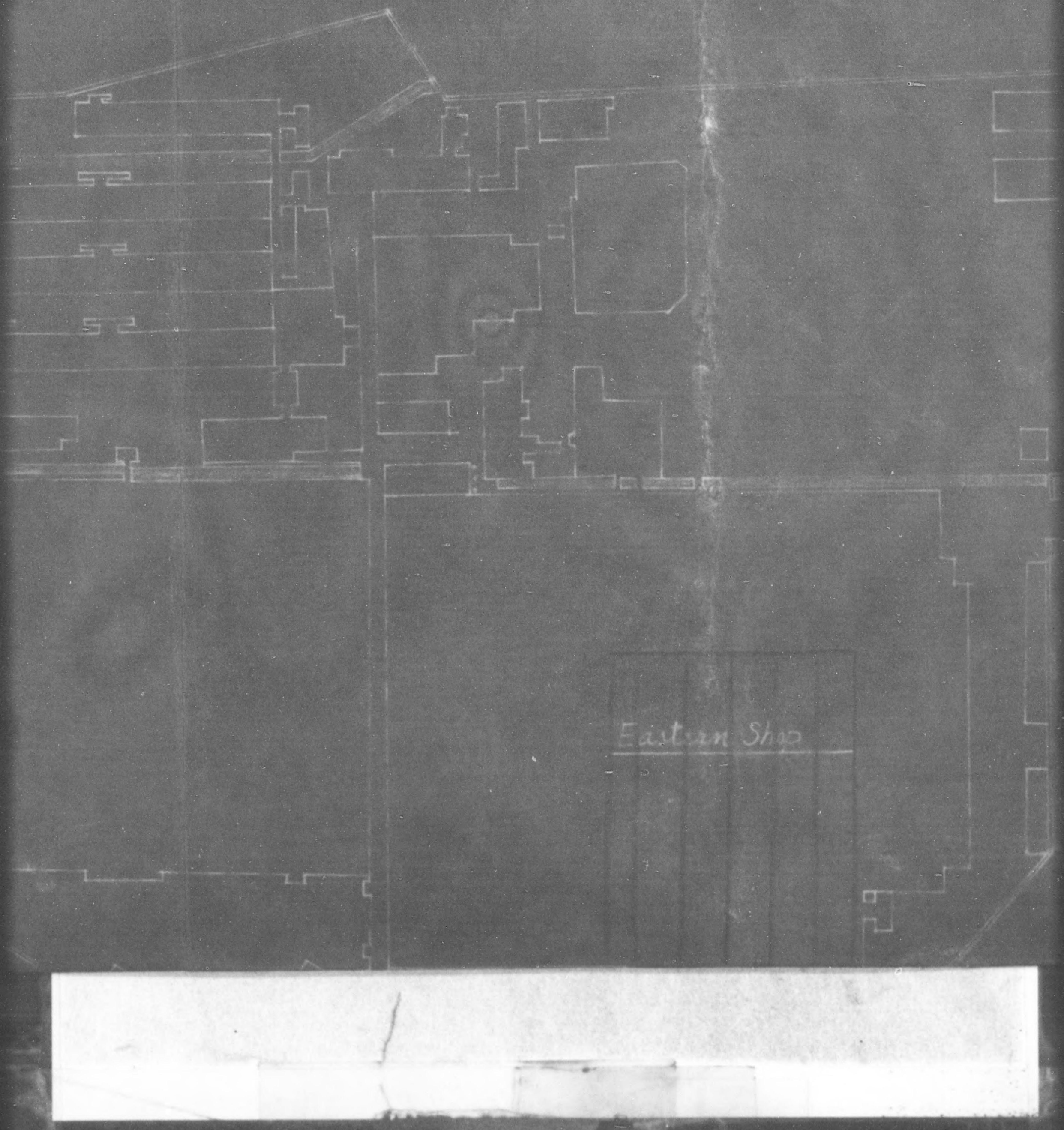
Annex No. 2

Plan of The Future Plant Including Ore

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

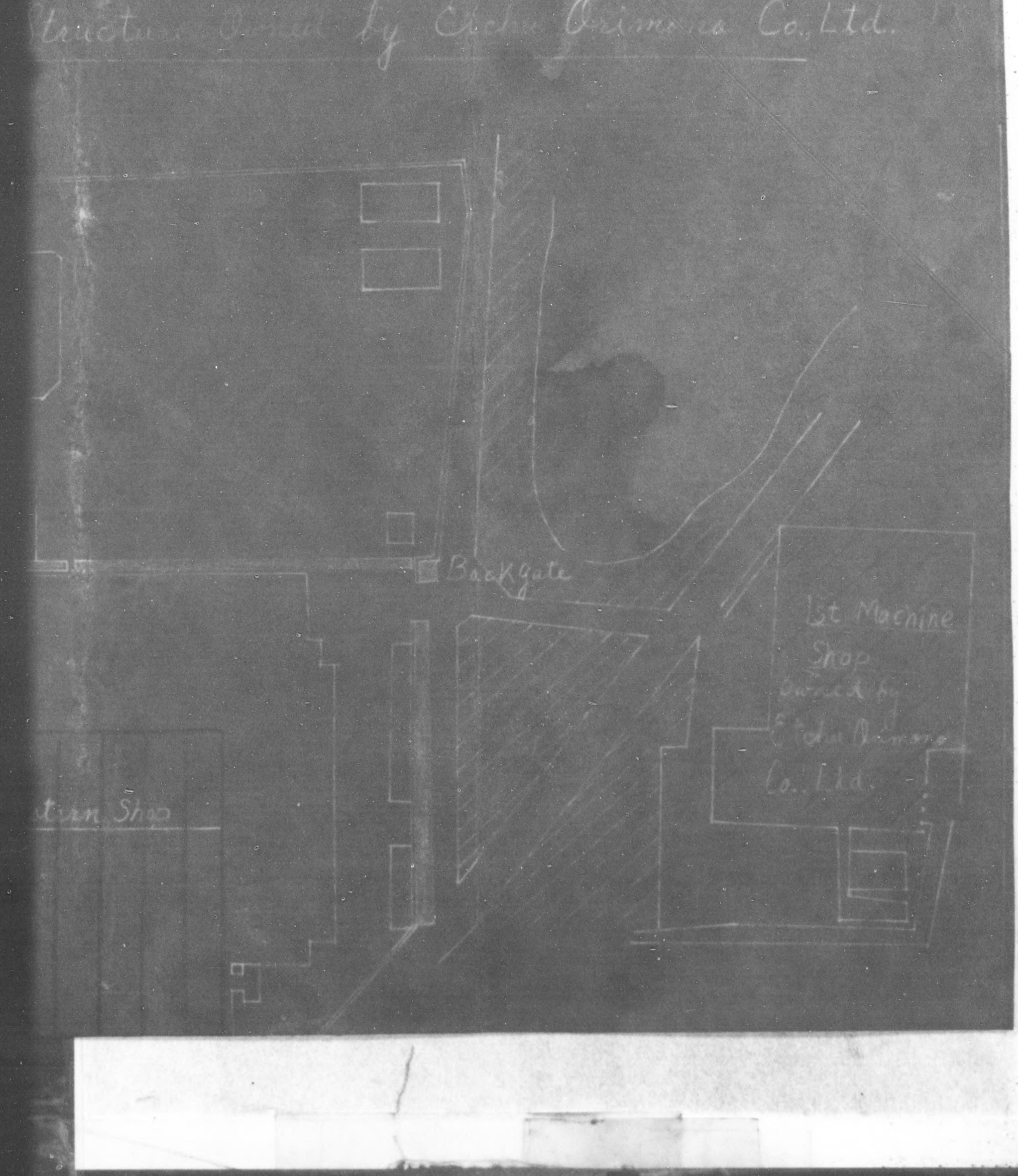
of The Future Plant

Showing Our Factory's Structure Erected by



DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

Structure Owned by Electric Furnace Co., Ltd.



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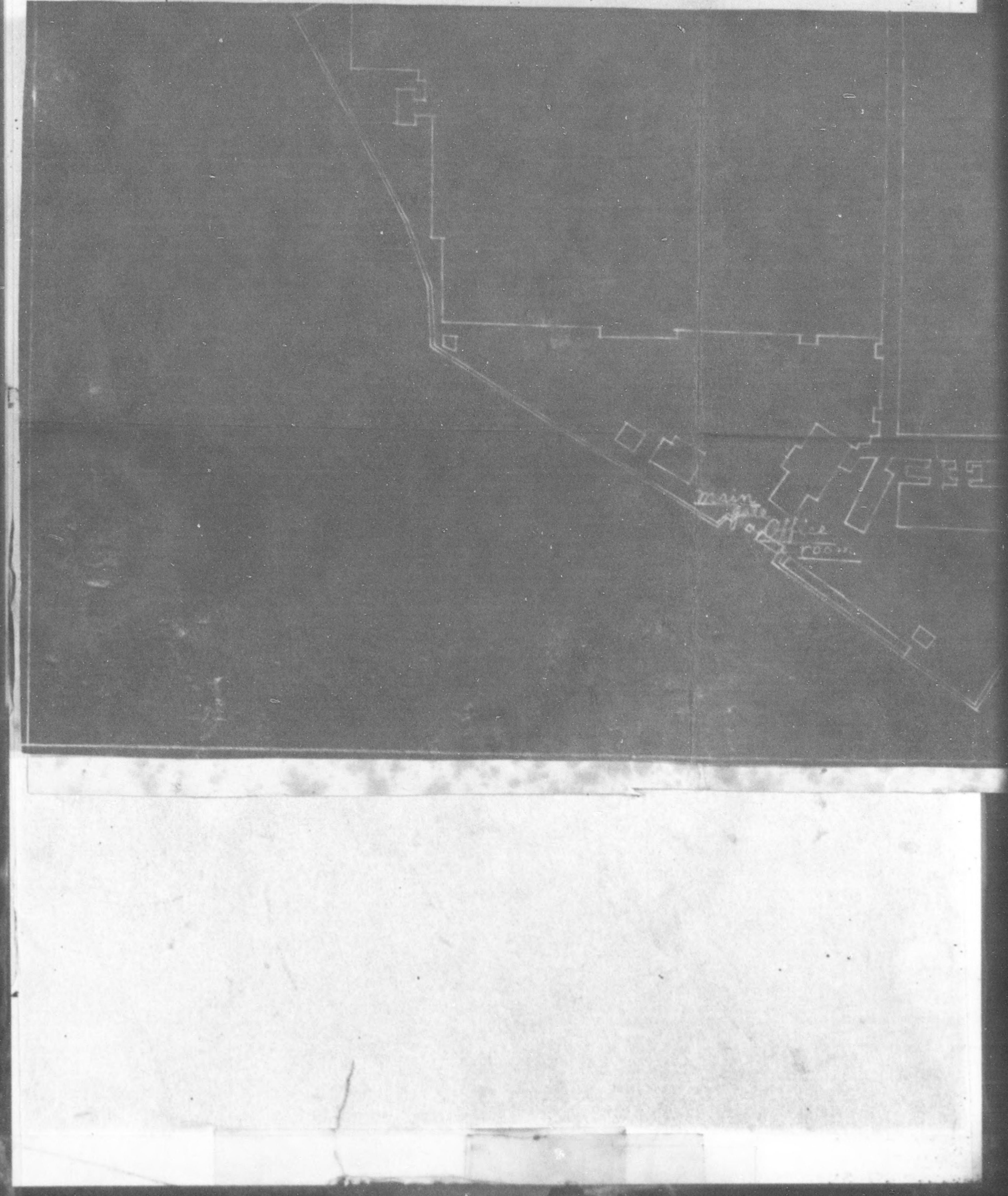

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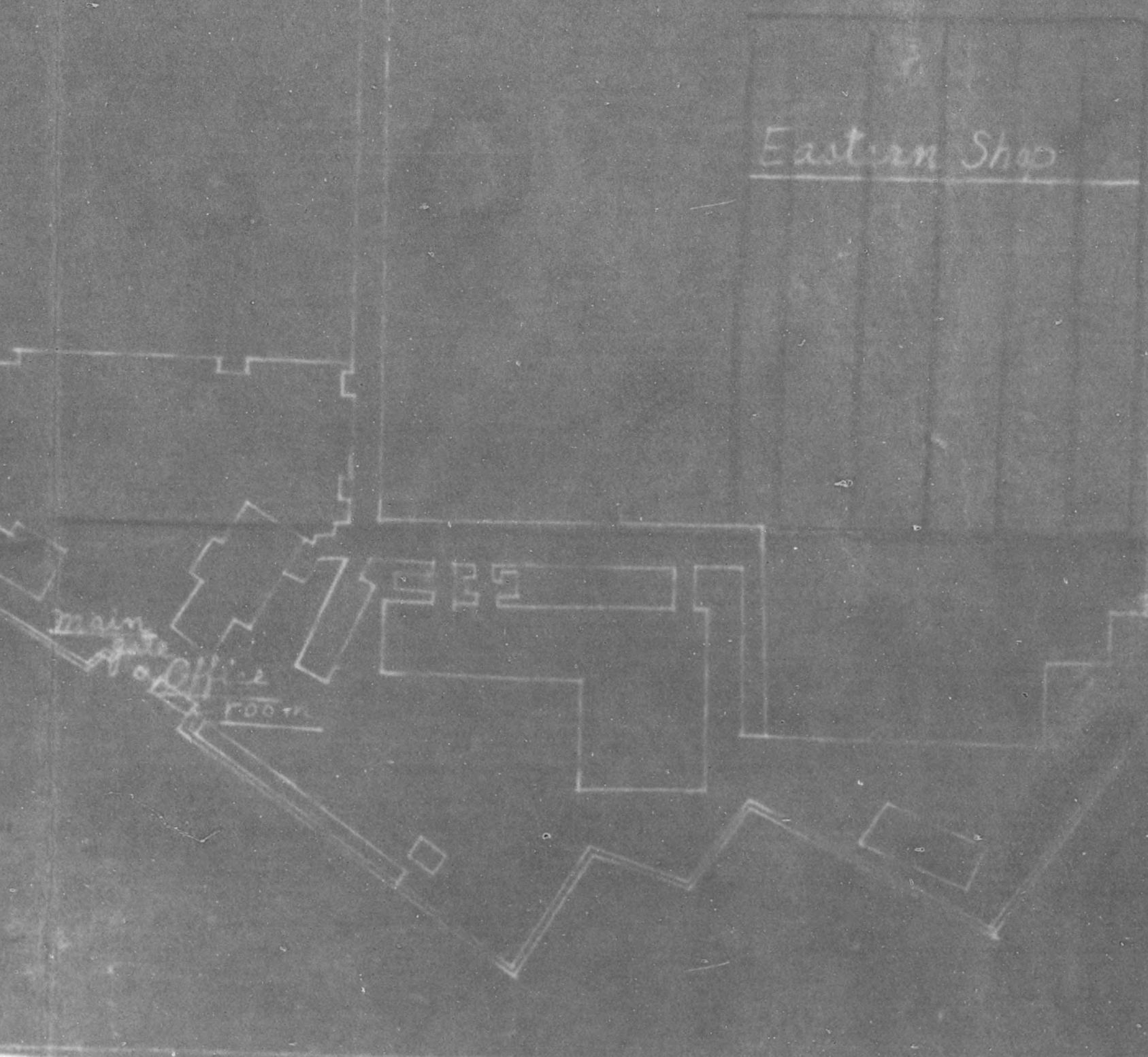

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

TOYAMA
LIAISON OFFICE

June 21, 1946

SUBJECT: Recommendation concerning Application for Conversion of Factory
TO : Capt. Nahun Z. Medalia, 90th Mil Govt. Toyama Det.
FROM : Toyama Prefectural Governor

The Kureha Industrial Co.,Ltd., Fukuno Factory of this Pref. already made the above application on June 10, 1946.
The factory mentioned above is classified as the Designate Factory, stipulated as the provision of article 1 of Commerce & Industry, Education Ministry ordinance No.1, 1946(custody of factory and work in compliance with an Imperial ordinance No.542 subject, instruction issued subsequent to our acceptance of the Potsdam Declaration) and they hope to take an authorization of conversion to the Japanese peace industry, in which they intend to manufacture the parts of the Spinning & Weaving machines and repair of these machines and machines & tools for agricultural use and etc. being granted of the most imperative under present time.

We hereby take the liberty to make application for the conversion of the above factory, together with our following recommendation expecting your good favour upon the above circumstances.

1. Manufacture of parts of spinning & weaving machines, and repair of those machines.

From the view point of the electric power, climate and humidity, the spinning and weaving industry is adaptable in this prefecture, and had been progressed rapidly befor war, especially the rehabilitation of the spinning & weaving industry is imperative for stabilization of public demand.
So first of all, considering the plan of the increasing production we intend to develope the industry and above all the production of "Flecone" apparatus which act "controlling", for spinning machine and "Gears" for weaving machine, is imperative.
Then, this factory intends to manufeasture of parts of spinning & weaving machine and repair these machines above mentioned with their excellent Equipment and technical ability.
We admit that the permission of reconversion of this factory is suitable disposition.

2. Manufacture of machines & tools for agricultural use.

This factory intends to produce the inevitable machines and tools for the increasing foodstuff (Plough, Straw cutting machine, Grass cutting machine) 100 machines per month.
We admit that the permission of reconversion of this factory is suitable disposition.

3. Repair of automobile

Among the automobiles in this Pref. the number of workable automobile is about 1,000 and owing to the lack of parts of automobile, a hitch of automobile has been arising, more-over, locating the repairing factory of automobile in the great city, we have disired to be founded the repairing factory in the Fukuno district.
We admit that the permission of reconversion of this factory is suitable disposition.

Signed K. Tanaka

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

APPLICATION FOR CONVERSION OF

AND

REPORT OF INDUSTRIAL FACILITIES

THE FUKUNO WORKS OF
THE KURUSHA INDUSTRIAL CO.,LTD.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

HEADING

1. General Description of the Demanding Application.
2. Application for the Operation of and Report of Industrial Facilities.
3. The enclosed paper No.1
4. The enclosed paper No2.
5. Outline sketch of Plant.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

General Description of
the Demanding Application

1. The Fukuno Plant was formerly a cotton spinning and weaving mill of the Kureha Boseki Kabushiki Kaisha (Kureha Cotton Spinning Co.,Ltd.) and had been operating as such until on February 11, 1944 (wartime) came a compulsive order from the Army Aviation Headquarters to have the plant undertake trial manufacture of wooden aircrafts. In conformity with this order against which we could raise no protest or objection, we were compelled to establish an entirely new company, Kureha Kokuki Kabushiki Kaisha (Kureha Aircraft Mfg. Co.,Ltd.),and to devote the operation of Fukuno Plant to manufacture of aircrafts. After the termination of the war, we had very little or nothing with which to reconvert the plant into spinning and weaving mill, as practically all materials. All we can do under the circumstance is to make use of the building and equipment there to start producing essential civilian commodities.

2. In the Hokuriku area (covering northwestern half of Honshu facing Japan Sea), despite its plentiful manpower and electrical power, mechanical industrial have been found considerably behind compared with the other areas. Prior to war,Hokuriku area depended entirely upon the other half area (northeaster half of Honshu facing the Pacific) for supply and repair of spinning machines and all other industrial machinery. For this reason, the destruction of machine industry in the latter area by war meant a heavy blow on the Hokuriku area, and its industries in general were badly affected. Production and repairing operations are extremely dull or practically at a standstill, in spite of the pressing of important machinery essential for production of commodities for maintaining the lowest standard of living of our people and for production of collateral materials. Spinning machinery and their parts and accessories have to be produced, old ones to be repaired. Farm implements have to be manufactured to increase food production. Automobiles and trucks have to be repaired so that the bottleneck in commodity transportation be broken. Something must be done to alleviate the situation, and it must be done very quickly.

3. Fortunately, with machinery and equipment coupled with experience and skill of its technicians, our Fukuno Plant, if given a chance, can make use of these advantages to the fullest extent in tackling the difficulties mentioned.

4. For the above reason, we wish to file an Application against which we wish very much to be granted with a Permit.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

No. 2

Application for Conversion of and Report of Industrial Facilities

TO: MILITARY GOVERNMENT

THRU: TOYAMA-KEN

The Kureha Industrial Co.,Ltd.
2247 Odake Kureha-mura Nei-gun
Toyama-ken

1. Name of facility
   The Fukuno Works of the Kureha Industrial Co.,Ltd.

2. Location
   100 Fukuno-town Higashitonami-gun Toyama-ken

3. Name of President
   President Chubei Ito
   Managing director Mosaku Morita

4. History
   a. Date of construction
      June 1, 1919 (When the Toyama cotton Spinning Co.,Ltd. was founded.)
      Mar.1, 1937 (Transfered to the Kureha Cotton Spinning Co.,L Ltd.)
      Feb. 11,1944 (When the Kureha Aireraft Co.Ltd. was founded.)
      Nov. 1, 1945 (Transfered to the Kureha Industrial Co.,Ltd.)

   b. Date of first operation
      Feb. 11, 1944

   c. 1935-1941 production
      (In this period, the Fukuno Works were a spinning mill of the Kureha Weaving Co.)

Product	Annual Value in yen
Cotton yarn & fabric	12,000,000

   d. Present capitalization in yen
      20,000,000

   e. Changes in capital structure since 1935
      Feb. 1944 (When the Kureha Aireraft Co.,Ltd. was founded)
      Capital 20,000,000 yen
      Chief stockholder The Daiken Co.,Ltd.
      On July 1945 the capital increased
      Capital 30,000,000 yen
      Chief stockholder The Daiken Co.,Ltd.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

f. Name and address of parent company
The Daiken Co.,Ltd.
Soze-cho Kitaku Osaka city

g.(1) Number of present shares
400,000 shares

(2) Number of stockholders
11

(3) Name of those owning 10% or more of the total
The Daiken Co.,Ltd. (398,000 shares)

(4) Funds received from government
Nothing

(5) Outline sketch of plant layout with approximate dimensions
As the enclosed papers.

5. Description
A. Principal products
1. War time
Until Jan. 1944 ---- Cotton yarn and cotton fabric in the capacity of the Kureha Weaving Co.,Ltd.
From Feb. 1944 until Aug. 1945 --- Sheet metal parts and machine parts of a wooden aeroplane in the capacity of the Kureha Aircraft Co.,Ltd.
From Jan. 1944 until Aug. 1945 --- Sheet metal parts of a aeroplane in the capacity of the Mitsubishi Industrial Co.,Ltd.

2. Present
Repair of spinning and weaving machines, and manufacture of these parts.
Spade being used by horse.
Grass cutting machine
Straw cutting machine
Repair of automobile

3. Planned for 1946-1947
Repair of spinning and weaving machines, and manufacture of these parts.
Manufacture of machines and tools for agricultural use
(1) Threshing machine
(2) Spade
(3) Straw cutting machine
(4) Grass cutting machine
(5) Flouring machine
(6) Rice cleaning machine
(7) Rope knitting machine

Repair of automobiles

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

B. Capacity

1. War time

Sheet metal parts of a wooden aeroplane which were produced by way of experiment. 20 aeroplanes (monthly)
(The Kureha Aircraft Co.,Ltd.)

Sheet metal parts of metalic aeroplanes
(We cannot calculate, as they had been produced by the Mitsubishi Co.,Ltd.)

2. Present

Product		Price(yen)
Repair of spinning and weaving machines, and manufacture of these parts.	-------	300,000 yen
Spade	-------	30,000 "
Straw cutting machine	-------	70,000 "
Grass cutting machine	-------	18,000 "
Repair of automobile	-------	10,000 "

3. 1946-1947 (with unristricted access to materials)

Repair of spinning and weaving machines, and manufacture of these parts.	-------	500,000 yen
Threshing machine	-------	200,000 "
Spade	-------	60,000 "
Straw cutting machine	-------	350,000 "
Grass cutting machine	-------	90,000 "
Unhulled rice rubbing-machine	-------	300,000 "
Rope knitting machine	-------	100,000 "
Rice cleaning machine	-------	100,000 "
Repair of automobile	-------	200,000 "

C. Number of Employees

1. War time 1,220

2. Present 356

3. 1946-47 (at maximum capacity) 750

6. Machinery of and Equipment in paint and proposed change to peacetime production

A. The ground area 92,373m^2

B. The building area 27,142m^2

C. Machinery

1. Present

As the enclosed paper No.1

2. Plan of machines after converting

As the enclosed paper No.2

Note: Machines above-mentioned belong to the Kureha Aircraft Co.,Ltd. and machines belonging to the Mitsubishi Co., Ltd. were carried out and assembled to the Daimon works after the inspection by the Allied Forces.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

D. Equipment

Description	Quantity	Condition
Heating appratus	1 set	Good
Steam piping	1 set	"
Hydrant appratus	1 set	"
Transformation appratus	1 set	"
Gas producing appratus	1 set	"
Sand-brasting appratus	1 set	"

Note: These appratus which were these of the spinning factory days, belong to and fix on the factory.

7. Present stocks of raw materials, suplies and unfinished goods.

A. Raw materials

Nothing

B. Supplies

Description	Quantity	Condition
Steel	26,000	Good
Special steel	22,000	"
Aluminium alloy	30,000	"
Paints	.,100	"

Note: Supplies above-mentioned belong to the Kureha Industrial Co.,Ltd., and supplies belonging to the Mitsubishi Industrial Co.,Ltd., were carried out after the inspection by the Allied Forces.

C. Unfinished googs

All destoyed and carried out by the Allied Forces.

8. Present stocks of finished goods

Description	Quantity
Spade	9
Grass cutting machine	59
Straw cutting machine	11

9. Present stocks of fuel

Description	Quantity
Coke	1.3 ton
Coal	2 "

10. Machinery and Equipment needed for maximum production 1946-1947

A. Machinery (written on 6-C-2: the enclosed paper No.2)

B. Equipment (written on 6-D: the enclosed paper No.2)

Description	Quantity
Casting and Forging Appratus	1 set

~~11. Raw materials and supplies needed monthly:~~

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11. Raw material and supplies needed monthly

A. Present Capacity (5B-2 above mentioned)

Article (Description)	Quantity	
Common steel	2	ton
Special steel	0.5	"
Paint	0.05	"
Woods	300	M3

B. For maximum (5B-2 above mentioned)

Description	Quantity	
Cast iron	80	ton
Steel	40	"
Special steel	2	"
Copper alloy	0.8	"
Babbit metal	0.2	"
Tool steel	0.5	"
Aluminum alloy	1.8	"
Others (Zinc, Tin; Antimony)	1.6	"

12. Fuel needed (monthly)

Description	Quantity	
Gasoline	1	Kilo-Liter
Alcohol	2	" "
Benzol	0.1	" "
Light oil	1	" "
Petroleum	0.1	" "
Heavy oil	0.1	" "
Coal	40	Ton
Coke	35	"
Charcoal	1.5	"
Woods	4.5	"

13. Additional personal needed (Not locally available)

Do not need consideration

14. Price (Give current selling prices in yen of principal products)

Description	Unit	Price (in yen)
Threshing machine	1 set	2,000
Spade	1 "	300
Straw cutting machine	1 "	700
Grass cutting machine	1 "	180

15. Remarks

16. Certification by applicant:

" I certify that the information contained herein is true to the best of my knowledge and belief."

Signed M. Morita.

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17. Action by Occupation Forces
The factory described in this application has been inspected and following action taken:

a. Ordered to remain closed Yes_____ No_____

b. Oredered to cease operations immediately
Yes_____ No_____

c. Authorized to produce at the following rate:

Item to be manufactured	Monthly Quantity

_____
Signature of Authorizing officer

_____
Designation of Authorizing Unit

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The enclosed paper No.1

Name.	Type & size	Amount.	Maker.	Note
Engine lathe.	8'	1	Hetano Seiki.	
"	5,7'	5	Teikoku Koki.	
"	4,6'	11	Hokuriku Kikai.	
"	8'	2	Osaka Koki.	
"	4,6'	23	Hannya Iron Works.	
"	5'	1	Hihara Seisakusho.	
"	1m	5	Hannya Iron Works.	
"	6'	1	Seishi Co.	
"	5,6'	3	Hannya Iron Works.	
"	6'	3	Shimada Seisaku.	
"	8'	1	Tsuzuki Co.	
"	4'	3	Riken Kogyo.	
"	4,5'	4	Hannya Iron Works.	
"	6'	3		
"	4'	1	Hakuyosha.	
"	3,2	1		
"	10'	1		
Turret lathe.	6'	7	Hanshin Kikai.	
"	6'	3	Harada Seiki.	
"	1m	2	Fuji Seiki.	
Thread cutting lathe.	small type	1		
Drilling machine.	20"	2		
"	22"	4		
"	20"	1	Suzuki Seisakusho.	
"	22"	1	Yoshida Iron Works.	
"	20"	3	Suzuta Co.	
"	24"	1	Nakayama Iron Works.	
"	24"	1	Nishimura Iron Works.	
Radial drilling machine.	ABC		Naikawa Chuzo Co.	
Multi-spindle drilling machine.	6 shaft	1		
Universal milling machine.	No.0	3	Ryosi Iron Works.	
Horizontal milling machine.	No.0	1	Morita Seisakusho.	
"	No.0	1	Miwa Seiki.	
"	No.0	1		
"	No.2	1	Sanko Koki Co.	
"	No.0	1	Hokuroku Co.	
Vertical milling machine.	No.2	1	Nagasawa Iron Works.	
"	No.2	3	Tateyama Jyuko Co.	
"	No.1	2	Kyoto Seisakusho.	
"	No.2	1	Kasuga Kikai Co.	
Thread miller.		2	Fuji Seisakusho.	
Shaper	18"	1	Nishimura Co.	
"	20"	1	Hakino Iron Works.	
"	24"	2	Daimenji Seisakusho.	
"	12"	1		
"	24"	1	Toyo Koryo.	
Planer.	7'	1	Matsumoto Chuzo Co.	
Slotter.		1	Hiraiwa Iron Works.	
"	/20 type	3	"	
"	/2'	1	Toho Shokai.	

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Name.	Type & Size.	Amount.	Maker.	Note
Slotter.	~~1/~~ 10"	1	Shibayama Iron Works.	
Tool grinding machine.	290x300	2	Honjyo Iron Works.	
"		1	Sonoike Irom Works.	
Surface grinding machine.	250	1	Daiichi Seimitsu Kogyo.	
"		1	Takagi Seisakusho.	
Interanal grinding machine.		1	Hiraiwa Iron Works.	
Universal grinding machine.		1	Takagi seisakusho.	
Water press.	35t	1	Mitsukuni Gyuseogyo.	
"	30t	1	Fuji Seiki.	
"	10t	1		
"	6t	1		
"	5t	1		
"	3t	1		
"	75t	1		
"	75t	1	Kyowa Seiki.	
"	10t	1	Kubota Iron Works.	
"	20t	1	Hoshin Co.	
"	75t	2	"	
Friction press.	50t	1	Osaka Press.	
"	45t	1	"	
Crank press	12ot	1	Sankin Seisakusho.	
Foot working press.		8		
Eccentic press.		2		
"		1	Akishu Co.	
Hydraulic press.		14		
Bending machine.	4m	1	Miyata Works.	
"	2X1000mm	5	Nigata kikai Co.	
"	3X1200mm	2	Kansai kinzoku.	
"	2X1000mm	1	"	
Pipe bending machine.		1		
Universal forming bending machine.	UB type	1	Sato Kogyo.	
Square shearing machine.	4X1200mm	1	Nankai Seiatsuki.	
"	3X100mm	1	Boshin Kogyo.	
Circular shear ing machine.	3X600mm	2	Nigata Kikai.	
Lever shearing machine.		7	Daizo zoki.	
"		2	Yuasa Co.	
"	250mm	3	Nigata Kikai.	
"		1		
"	5X2000mm	1	Nishin Iron Works.	
Vibrating shearing machine.		1	Miyako Kinzoku Kogyo.	
"		1	Miyata Seisakusho.	
Nipping machine.	200X400mm	1	Daizo doki.	
"	3X50mm	1	Osaka Itagane Kikai.	
Panting machine.	1ct	4	Nigata Kikai.	
Rivetting machine.		4		
Bar straighting machine.	SK 35	1	Sanso Tokubetsu Kikai.	

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Name	Type & Size.	Amount.	Maker.	Note.
Grinding cutter.	5HP	2	Sima Co.	
"		2	Nippon Kosokudo Setsudenki.	
"	KP No.2	1	"	
Metal hack saw.	14"	3	Hayashi Co.	
"	16"	1	Kyowa Seiki.	
"	14"	2	"	
Bench drilling machine.	12"	5		
"	12"	2	Masui Seimitsu Kogyo.	
"	11"	1		
"		50	Masui Seimitsu Kogyo.	
"	10"	1	Nippon Kogu.	
"	10"	5		
"	1HP	1	Kango Co.	
"	1/3	3	Taito Kogyocho.	
Motor grinder.		3	Home made.	
"		2		
"	2Hp	1	Kanzaki Kogyo.	
"	6"	1		
Double head motor grinder.	1Hp	4	Kyowa Seiko.	
"	2Hp	9	"	
"	½Hp	1		
"		2		
"	½Hp	2	Manshin Kikai.	
"	¼Hp	1	Kyokuto koki.	
"	1Hp	1	Hikari dendo kogu.	
"	2Hp	1	"	
"	1Hp	2	Towa dendo kogu.	
Portable grinder.	3h	2	Kokesan Flex.Co.	
Centering machine.		1	Yamaguchi Seiki.	
Odd lathe.	6'	1	Nippon moko kikai.	
Planing machine.	12"	1	"	
Circular saw.		1		
Band saw.	36"	1	Nippon mokko kikai.	
"	36"	1	Nigata kikai.	
"	40"	1	Nippon mokko kikai.	
Nibbling machine.		1	Yuasa Co.	
"		3	Seikosha.	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

The enclosed paper No.2

1. For repair of spinning machines & manufacture of these parts.

Name.	Type & Size.	Amount	Maker.	Note.
Engine lathe.	5,3'	5	Teikoku Koki.	
"	4,6'	6	Hokuriku Kikai.	
"	8'	1	Osaka Zoki.	
"	4,6'	20	Hannya Iron Works.	
"	1m	5	"	
"	6'	1	Deishi Co.	
"	6'	3	Chimoda Seisaku.	
"	8'	1	Tsuzuki.	
"	4,5'	4	Hannya Iron Works.	
"	4'	1	Hakkosha.	
"	3,2'	1		
Turret lathe.	6'	5	Manshin Kikai.	
"	6'	2	Harada Seiki.	
Thread cutting lathe.	Small type.	1		
Drilling machine.	20"	1		
"	20"	1	Suzuki Seisakusho.	
"	20"	3	Suzuta Co.	
"	24"	1	Nishimori Iron Works.	
Multi-spindle drilling machine.	8 shaft	1		
Universal milling machine.	No.0	12	Kyosi Iron Works.	
Horizontal milling machine.	No.0	1	Morita Seisakusho.	
"	No.0	1	Miwa Seiki.	
Vertical milling machine.	No.2	3	Tateyama Jukogyo.	
"	No.1	1	Kyoto Seisakusho.	
Thread miller.		2	Fuji Seiki.	
Shaper.	28"	1	Makino Iron Works	
Planer.	7'	1	Matsumoto Tyuzo.	
Shotter.		1	Hiraiwa Iron Works.	
"	120 type	3	"	
"	10"	1	Shibayama Iron Works.	
Tool grinding machine.	290x300mm	2	Honjyo Iron Works.	
Surface grinding machine.		1	Takagi Seisakusho.	
Motor press.	30t	1	Fuji Seiki.	
"	10t	1		
"	75t	1	Kyowa Seiki.	
Foot working press.		2		
Hydraulic press.		4		
Lever shearing machine.	250mm	3	Niigata Kikai.	
"	5x2000 mm	1	Nishin Iron Works.	
Panting machine.	lot	1	Niigata Kikai.	
Bar straightning machine.	SK 35	1	Sanso tokubetsu kikai.	
Grinding cutting machine.		1	Nippon Kosokudo setsudanki.	

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2. For manufacture oftools for agricultural use.

Name	Type & Size.	Amount.	Maker.	Note
Engine lathe.	9'	1	Osaka zoki.	
"	4.6'	3	Hannya Iron Works.	
"	6'	3		
Drilling machine.	20"	1		
"	22"	1		
Horizontal milling machine.	No.0	1		
Vertical milling machine.	No.1	1	Kioto Seisakusho.	
"	No2	1	Kasuga Kikai Co.	
Shaper.	24"	1	Dainenji Seisakusho.	
"	12"	1		
Motor press.	75t	2	Boshin Kogyo.	
"	75t	1		
"	6t	1		
"	5t	1		
"	3t	1		
Friction press.	50t	1	Osaka press.	
"	45t	1	"	
Crank press.	120t	1	Sankin Seisakusho.	
Foot working press.		4		
Eccentric press.		2		
Hydraulic press.		8		
Bending machine.	4m	1	Miyata Seisakusho.	
"	2X1000mm	4	Nigata Kikai.	
"	3X1200mm	2	Kansai Kinzoku.	
"	2X1000mm	1	"	
Pipe bending machine.		1		
Universal Forming bending machine.	UB	1	Sato Kogyo.	
Square Shearing machine.	4X1200mm	1	Nankai Suiatsuki.	
"	3X1000mm	1	Sushin Kogyo.	
Circular shearing machine.	3X600mm	2	Nigata Kikai.	
Lever shearing machine.		7	Daizodoki.	
"		1		
Vibrating shearing machine.		1	Miyako kinzuku kogyo.	
"		1	Miyata Seisakusho.	
Nippling machine.	200X400mm	1	Daizodoki.	
"	3X800mm	1	Osaka Itagane kikai.	
Panting machine	10t	2	Nigata kikai.	
Rivetting machine		4		
Grinding cutter.		1	Nippon kosokudo setsudenki.	
Metal Hack saw.	14"	1		
Bench drilling machine.		16	Masui Seimitsu kogyo.	
"	10"	2		
"	1/2Hp	2	Taito kogyosho.	
Motor grinder.	2Hp	1	Kanzaki Kogyo.	
"	6"	1		
Doble head motor grinder.	1Hp	2	Kyowa seiko.	
"	2Hp	3	"	
"	2Hp	1	Hikari dendo kogu.	
"	1Hp	1	Town dendo kogu.	
Portable grinder	HR	1	Kokusan flex.Co.	

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3. For repair of automobile & manufacture of these parts.

Name.	Type & Size.	Amount.	Maker.	Note
Engine lathe.	8'	1	Fatemo Seiki.	
"	4,6'	5	Hokuriku Kikai.	
"	5'	1	Mihara Seisakusho.	
"	4'	3	Niken Kogyo.	
Turret lathe.	6'	2	Hanshin Kikai.	
"	6'	21	HaredaSeiki.	
"	1m	22	Fuji Seiki.	
Drilling machine.	20"	1		
"	22"	2		
"	24"	1	Nakayama Iron Works.	
Radial drilling machine.	ABC type	1	Aikawa Chuzo Co.	
Universal milling machine.	No.0	1	Kyosi Iron Works.	
Horizontal milling machine.	No.2	1	Sanko zoki.	
"	No.0	1	Hokuroku Shokai.	
Vertical milling machine.	No.2	1	Nagasaka Iron Works.	
Shaper.	18"	1	Nishimura Co.	
"	24"	1	Dainengi Seisakusho.	
Slotter.	12"	1	Toho Shokai.	
Tool grinding machine.		1	Sonoike Iron Works.	
Surface grinding machine.	PSG type	1	Daiichi seimitsu kogyo.	
Internal grinding machine.		1	Hireiwa Iron Works.	
Universal grinding machine.		1	Takagi Seisakusho.	
Motor press.	35t	1	Mitsukuni Kyukogyo.	
"	20t	1	Hoshin Kogyo.	
"	10t	1	Kubota Iron Works.	
Foot working press.		2		
Eccentric press.		1	Akishu Co.	
Hydraulic press.		2		
Bending machine.	2100mm	1	Nigata kikai.	
Lever shearing machine.		2	Dass Co.	
Panting machine.	10t	1	Nigata kikai.	
Grinding cutter.	KB No.2	1	Nippon kosokudo setsudanki.	
Bench drilling machine.	12"	2	Nasui seimitsu kogyo.	
"		5	"	
"	10"	3		
Motor grinder.		2	Home made.	
Double head grinder.	1Hp	1	Kyowa seiko.	
"	2Hp	2	"	
"	2Hp	1	Kyokuto koki.	
"	3Hp	1	Hanshin kikai.	
Portable grinder.	HL	1	Kokusan flex. Co.	
centering machine.		1	Yamaguchi seiki.	

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4. For casting & timber shop.

Name	Type & size	Amount	Maker	Note
Engine lathe.	5,6'	3	Hannye Iron Works.	
"	10'	1		
Drilling machine.	22"	1	Yoshida Iron Works.	
Shaper.	24"	1	Toyo kogyo.	
Grinding cutter.	5Hp	2	Kima Co.	
Metal Hack saw.	14"	1	Hayami Co.	
"	16"	1	Kyowa seiki.	
"	14"	1		
Bench drilling machine.	/2"	3		
"	11"	1		
"		6	Nasui seimitsu kogyo.	
Double head motor grinder.	2Hp	2	Kyowa seiko.	
"		2		
"	1Hp	1	Toa dendo kogu.	
Wood lathe.	6'	1	Nippon mokko kikai.	
Planing machine.	/2"	1	"	
Circular saw.		1		
Band saw.	36"	1	Nippon mokko kikai.	
"	40"	1	"	
"	36"	1	Nigata kikai.	
Nibbling machine.		1	Iwasa Co.	
"		3	Daikosha.	

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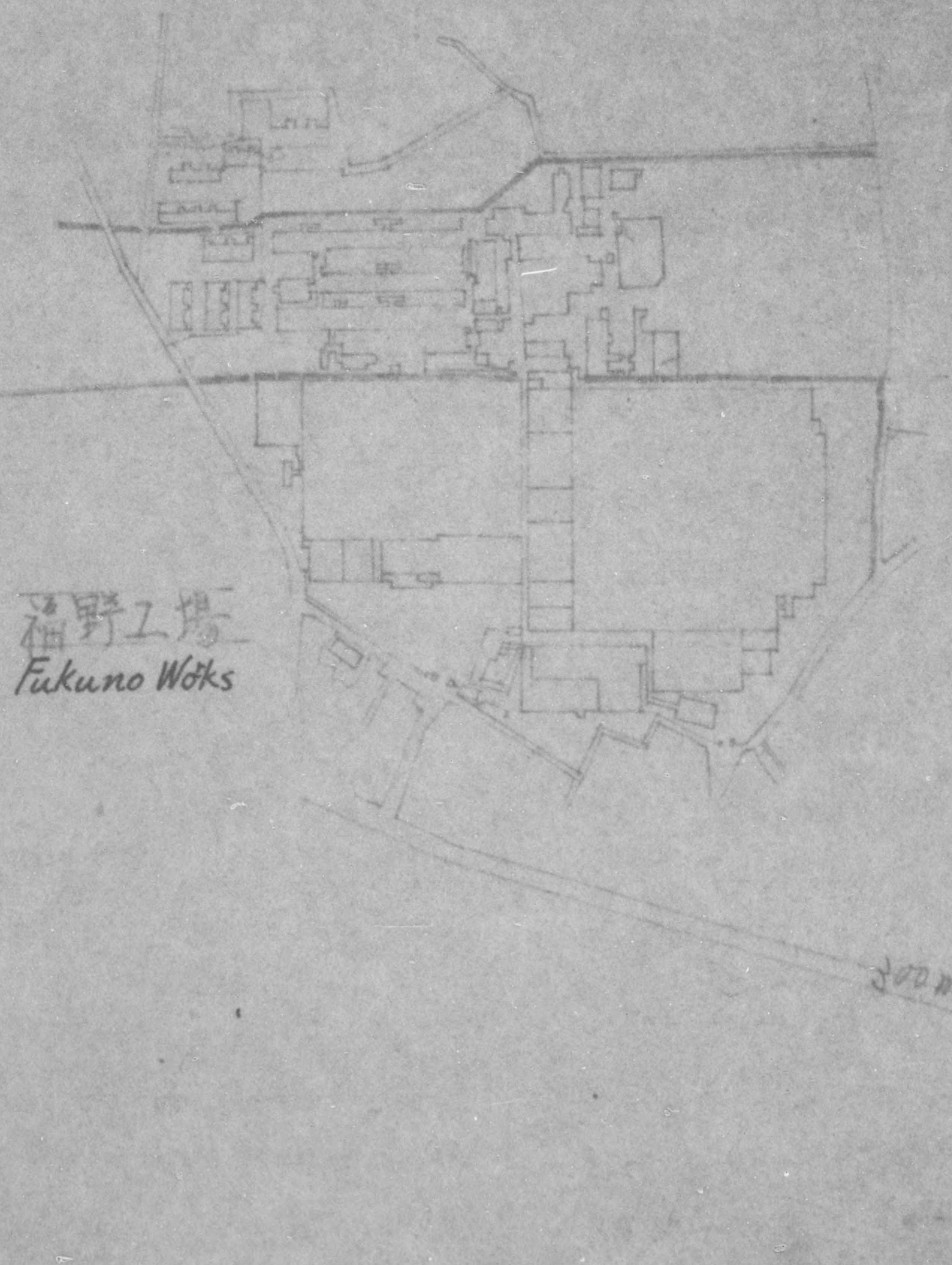

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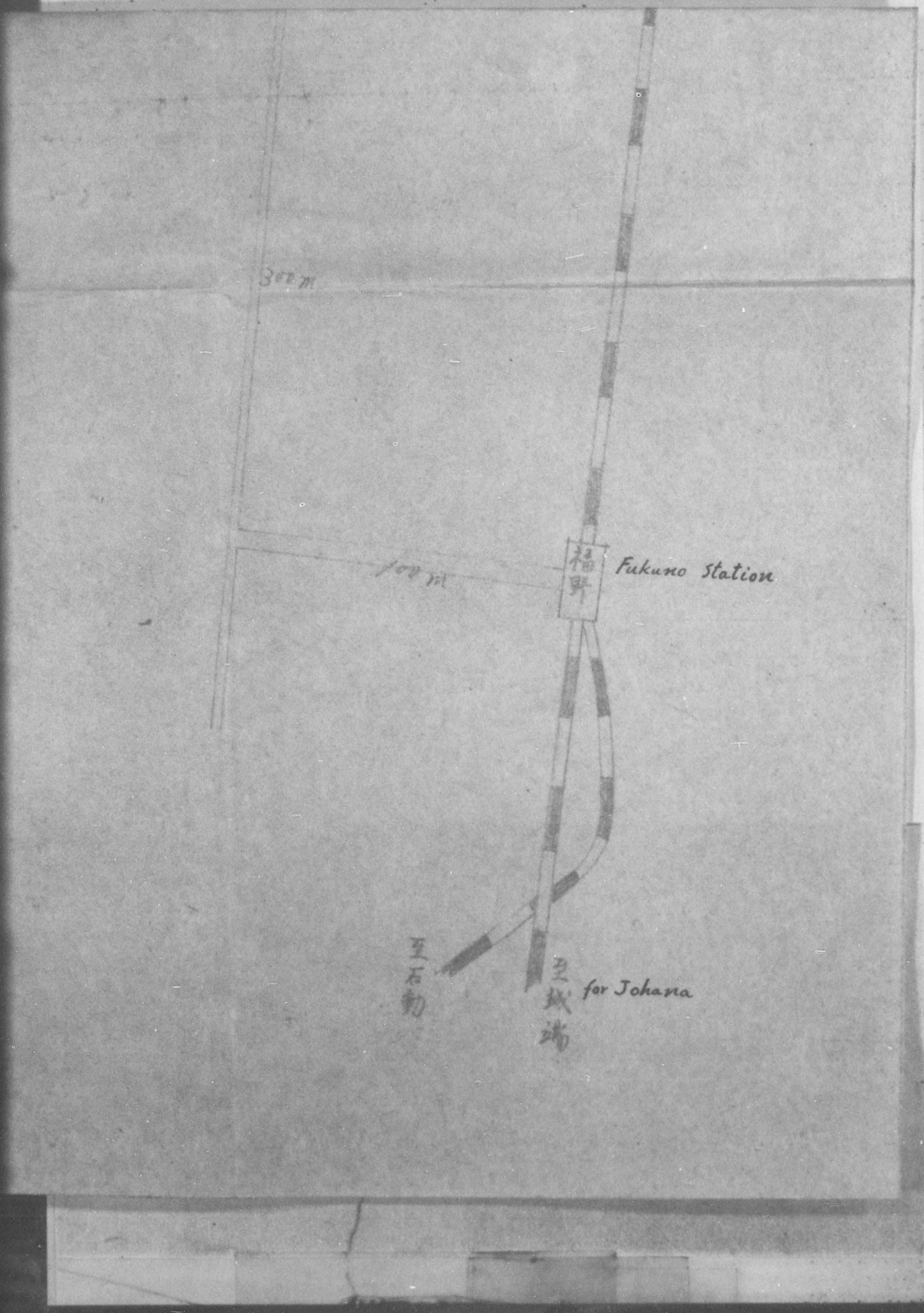

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ARRANGEMENT DIAGRAM

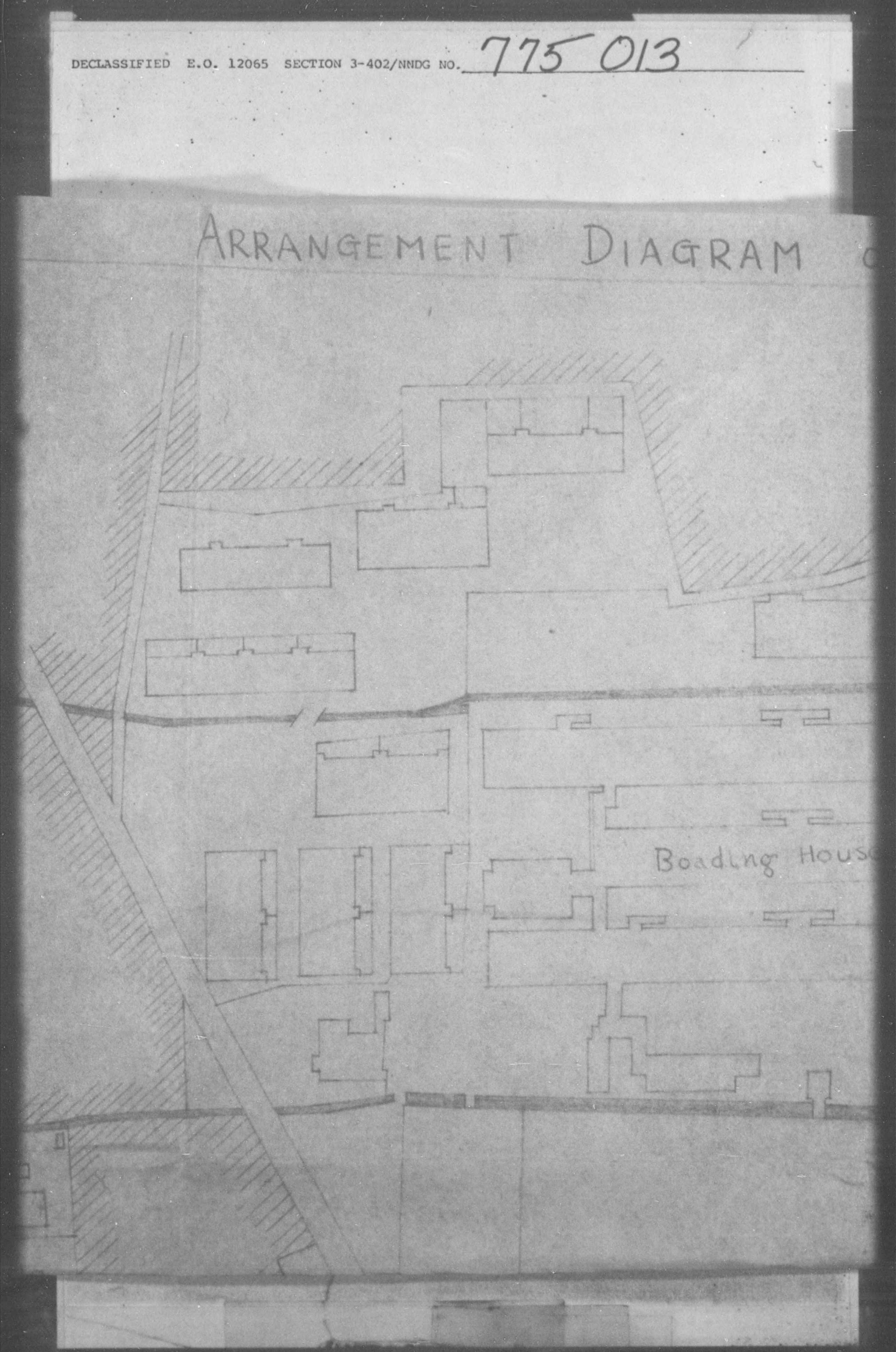

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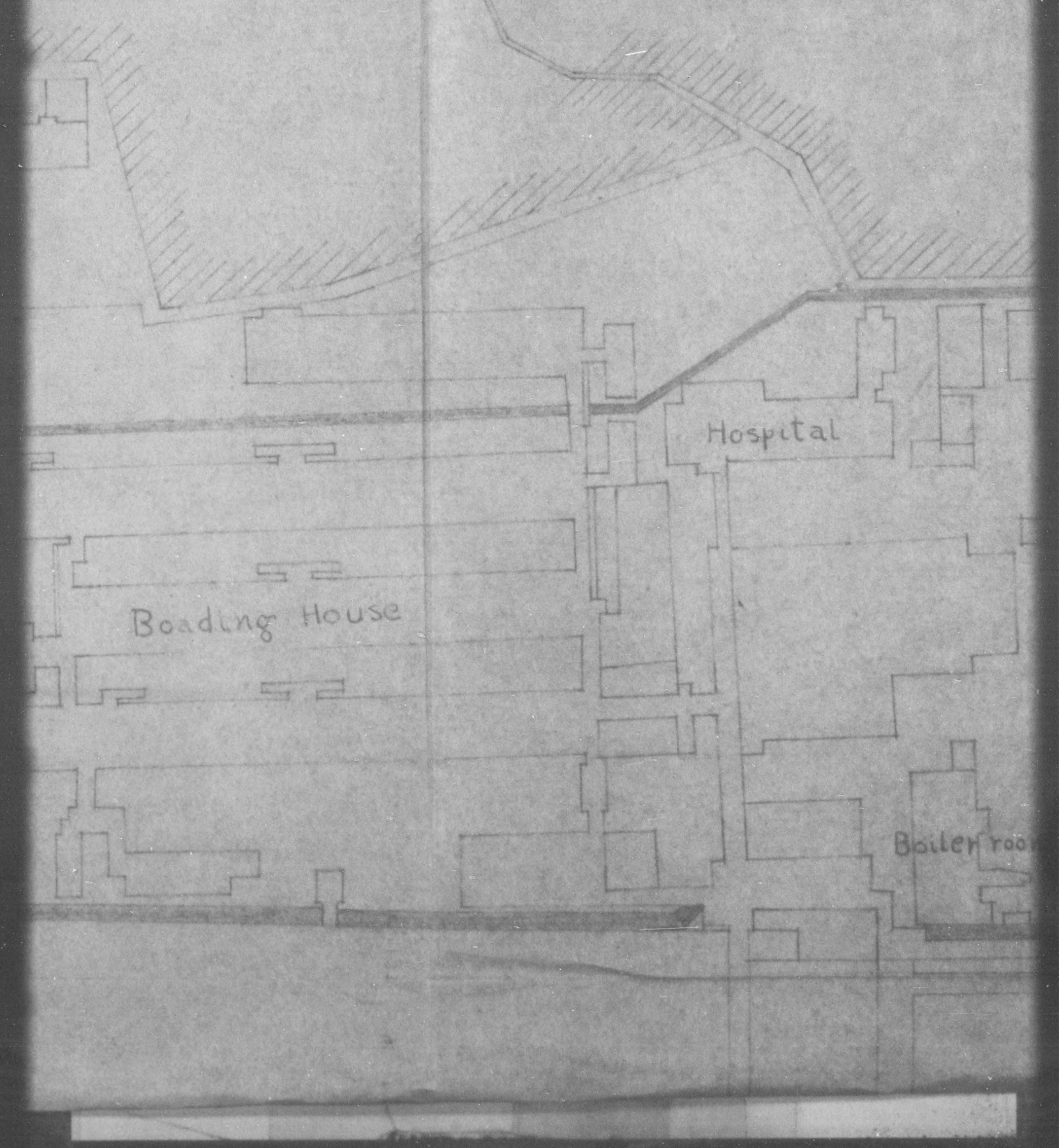
DIAGRAM OF FUKUNO PLANT.



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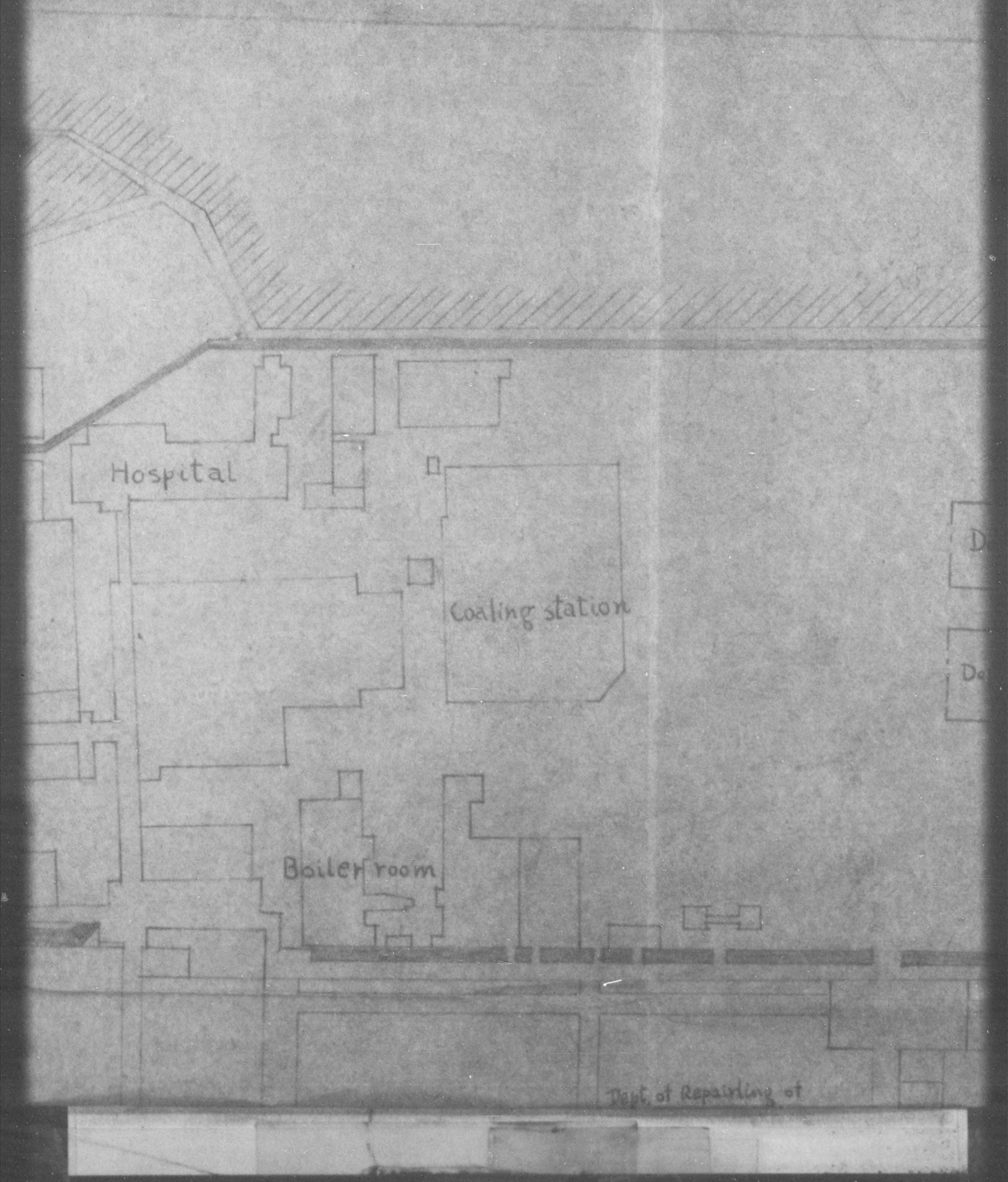
KUNO PLANT.



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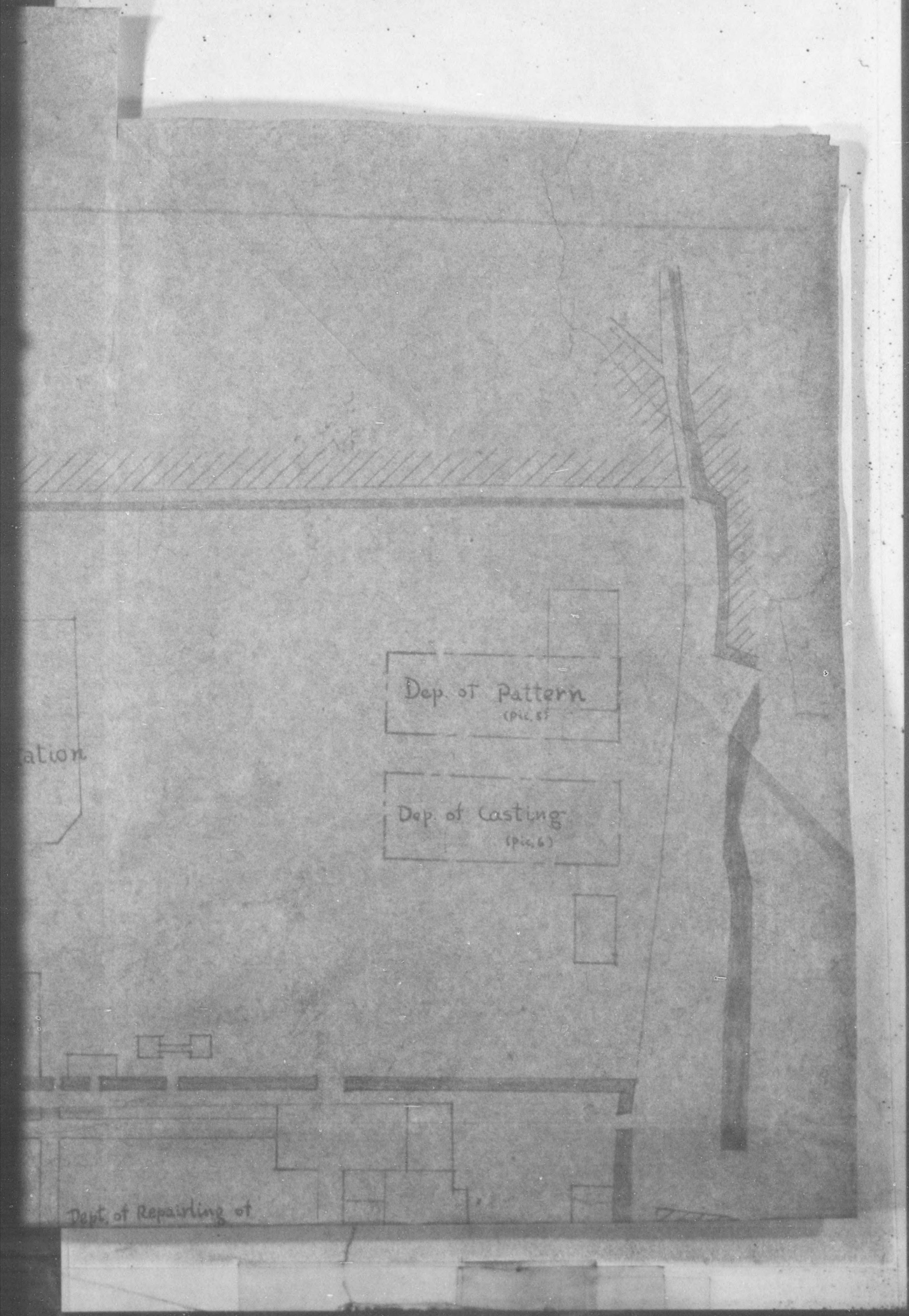

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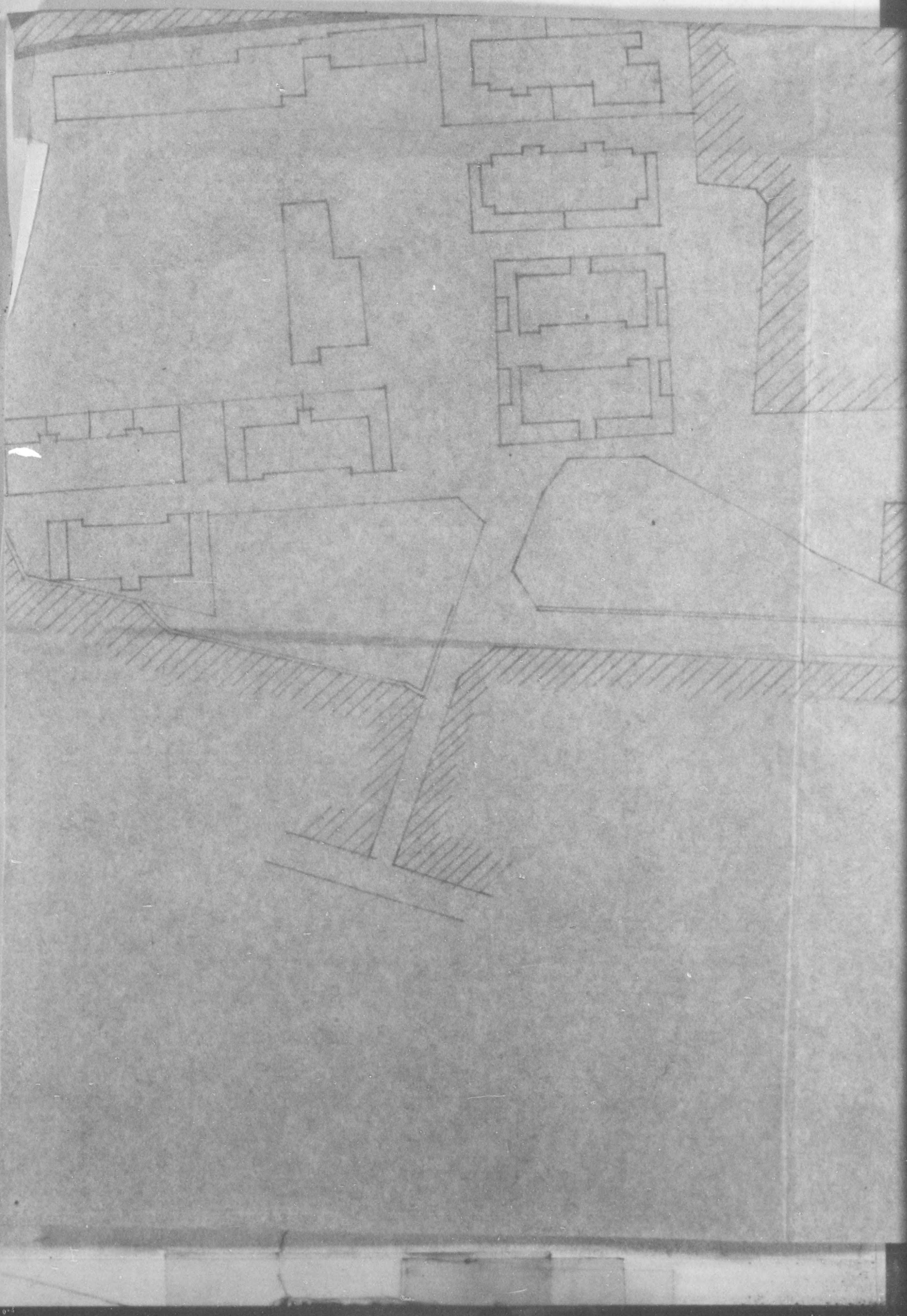

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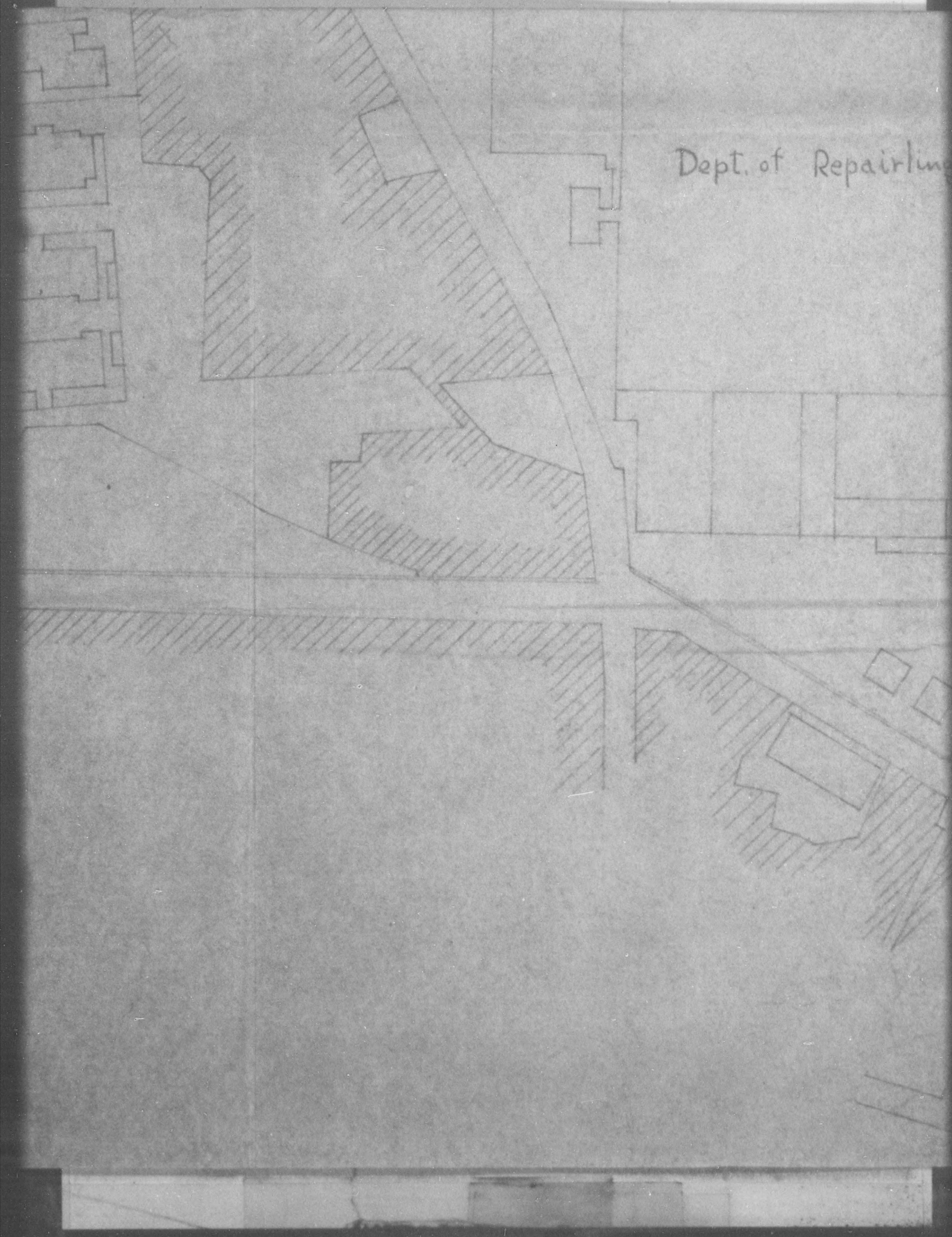

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

Dept. of Repairling of Weaving machine.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

machine.

Dept. of Weaving machine.

Dept. of Repairing of Auto-mobile. (sheet metal works)

Dept. of Weaving machine.

Dept. of Repairing of Auto-mobile (Engineering works) (Pic. 1)

Dept. of weaving machine.

Dept. of machines & Tools for Agricultural use. (Sheet metal works) (Pic. 3)

Dept. of Repairing of machines

Dept. of machines Tools for Agricultural use (Engineering works) (Pic. 2)

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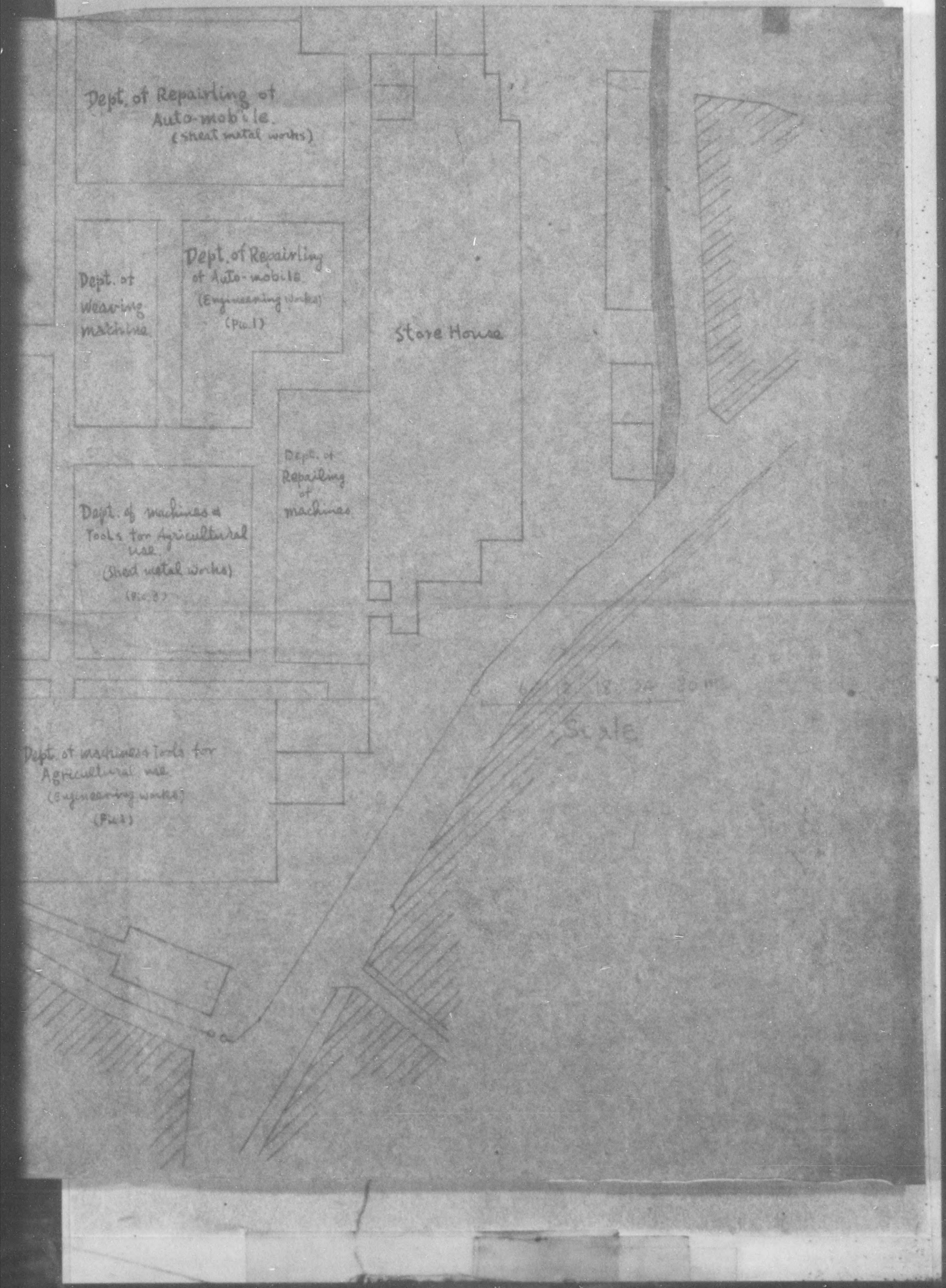

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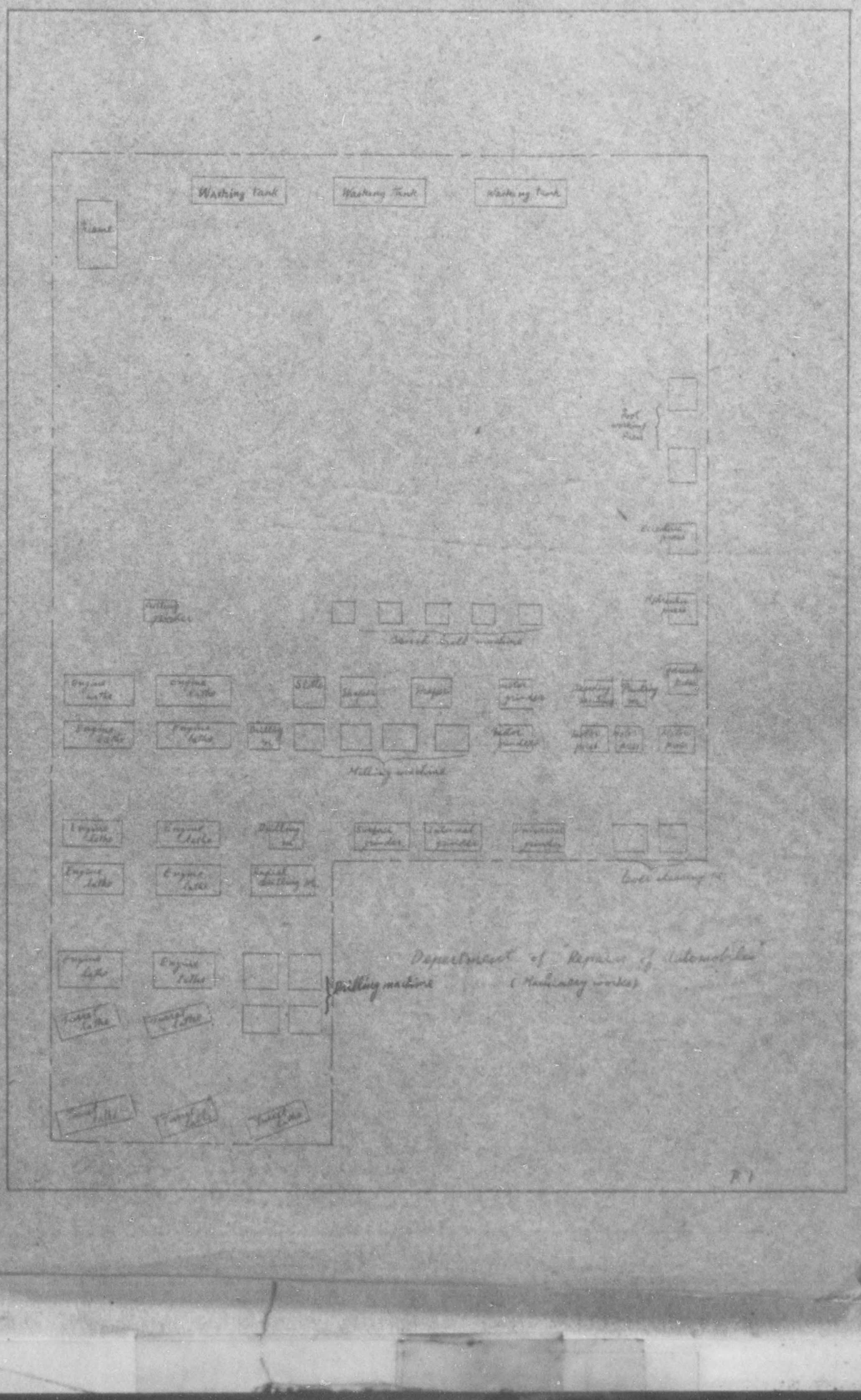

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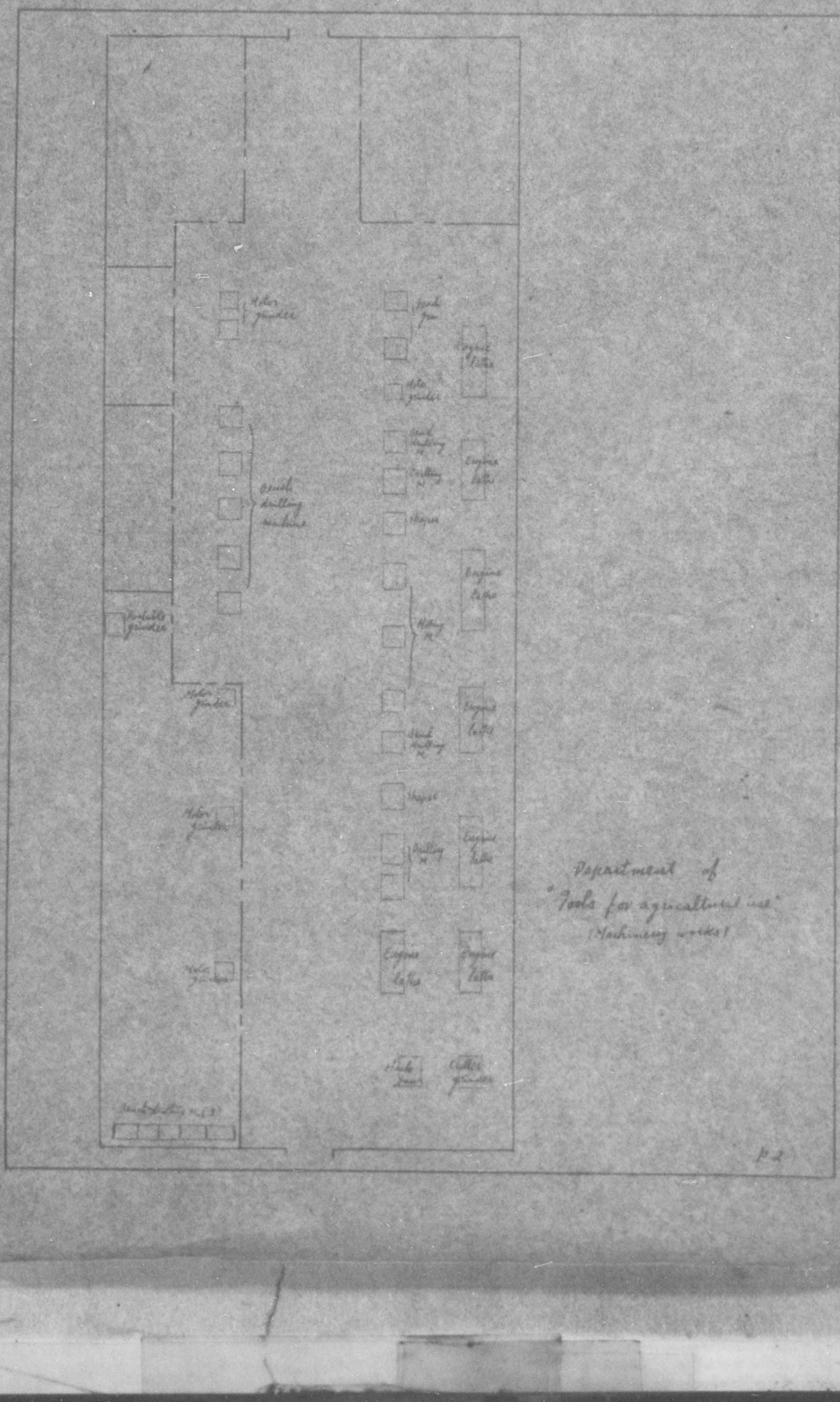

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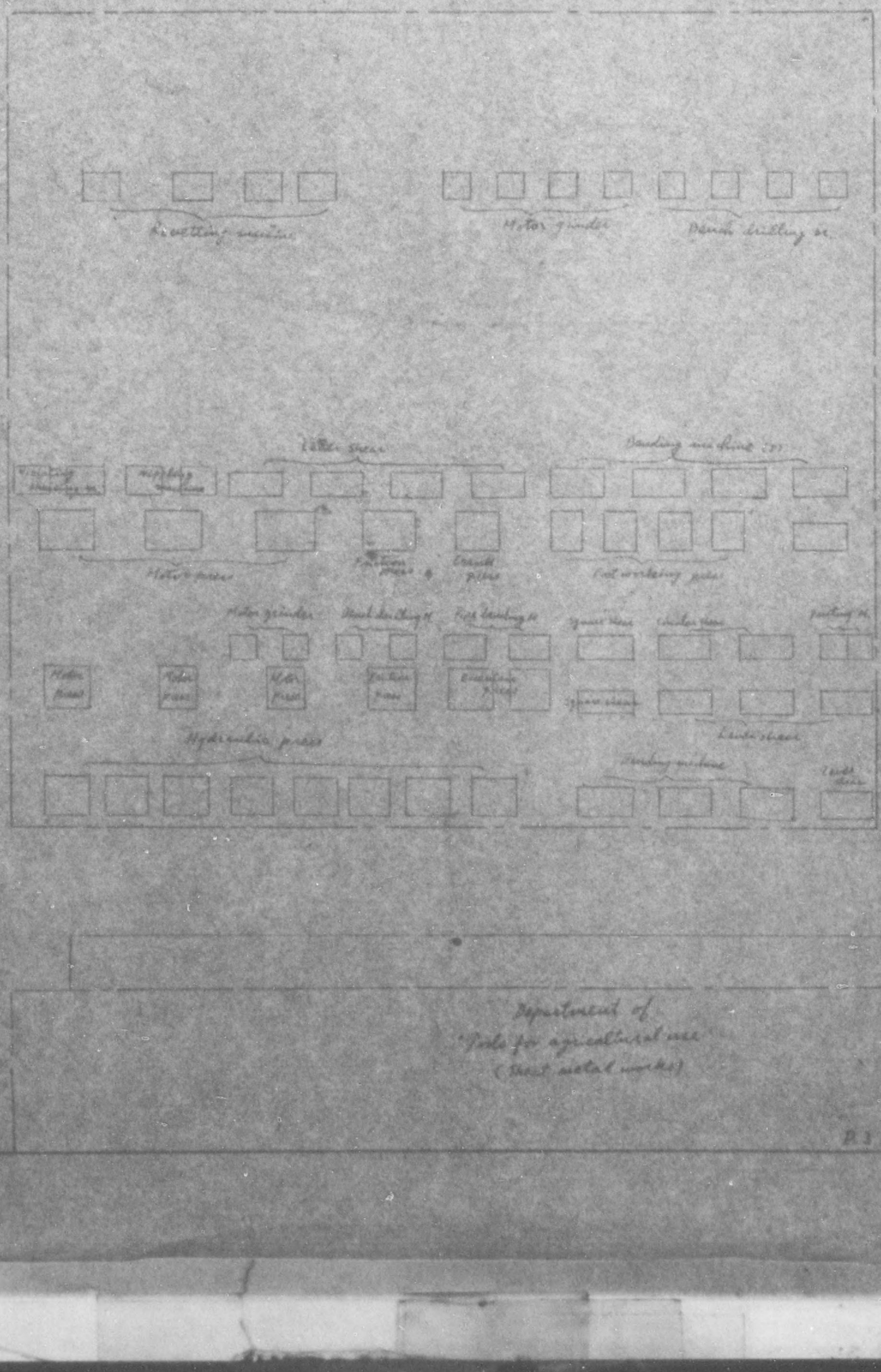

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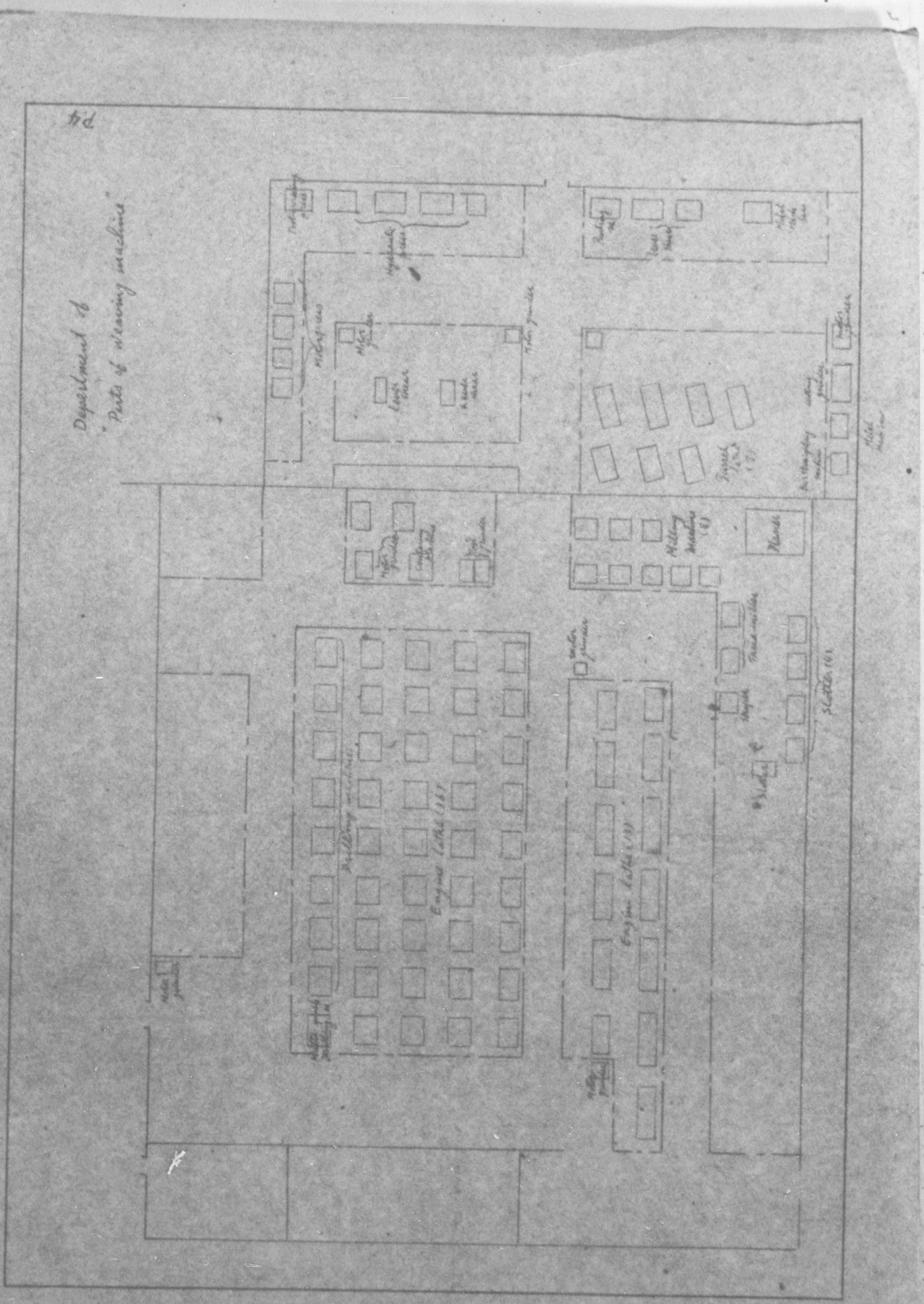

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Foundry

1/200

L Lathe
MS Metal Saw
C Cutting Grinder
BS Band Saw
cS Circular Saw
n Nibbling Machine
WL Wood Lathe
P Plal
B Bohring Mathine
G Grinder
b Desk Bohring Mathine

pic 6

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NO.1

General Description of
the Demanding Application

1. Our Fukuno Works had formerly been spinning mills, and were obliged to convert into sheet metal works of aeroplaine in the year before last, and our spinning machines were taken away or broken down to scraps.
Now-a-days we have to utilize the building and equipments for some industry in stead of returnming back to our original spinning.

2. Many machines of the former Kanazawa Engine Works of Army Aero Arsenal which have been spreaded out to avid air attack are left at so many places as 50 or more in Ishikawa prfecture, and are not to be said perfectly maintained, for instance, some of them are kept in storages which have no exact locks or in workshops of rain leak roofs and of broken windows, and more over some of them are left on platforms of stations in the open air without covering. It is our duty to do our best to keep the machines in perfect conditions until they are carried abroad as indemnity.

3. In Toyama prefecure, the machine industry is backward compared with that of other districts inspite of having so much labour and electrical power.
At present, it is quite an urgent matter to establish the machine industry, especially of the manufacturing of engines and tools for farmer's use, to increase the agricultural production:-
The Japanese are now suffering from scanty food so much.
And it is also neccessary to repair the broken spinning and weaving machines and the worn out trucks which have been left without care during the wartime.

4. By these two reasons above mentioned, we think it necessary and best to gather the scattered machines in our works as soon as we can, and begin the machine industry, utilizing them under our careful treatments and our perfect supervisions.
At the same time, we remember that "the machines keep good faculties by itself when they are continiously used with enough cares".

5. If we could have your favour to permit our works to begine this indu-stry, that will give much convenience to maintain our lowest livings, and this utilization of the machines will, in 1 or 2 years, proof necessity for the civilians livings.
Japanese Government has already agreeded with our planning and also has a desire to lend us the machines.

6. In conclusion, we earnestly hope your favour to permit our planning for the sake of mercy of our lowest livings, and for the benefit of our perfect supervisions over the machines.

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Application for Operation of
and
Report on Indutrial Facilities

To: EIGHTH ARMY

THRU: MILITARY GOVERNMENT SECT

The Kureha Industrial Co. Ltd.
2247 Odake, Kureha-murh, Neigun
Toyama.

Feb. 21th. 1946.

1. Name of Facilit.
The Fukuno Works of The Kureha Industrial Co. Ltd.

2. Location.
100, Fukuno-town, Higashitonami-district, Toyama Prefecture.

3. Name of President
President Chubei Ito
Managing director Nosaku Morita

4. History
General Description
The Fukuno plant was a cotton mill belonged to the Kureha Weaving Co. Ltd.
Feb. 11th 1944. the company was forced to convert some of its works into aircraft metal parts works by the Army.
We founded the Kureha Aircraft Co. Ltd. apart from the former, and changed this Fukuno works to as machine and sheet metal works of aeroplane parts of wooden trial plane.
June.1st. 1945. We were ordered to lend two thirds of building and ground of the plant to Mitsubishi H. I. Co. Ltd. by the Government.
Oct. 1st. 1945. We transfered the name of the company to Kureha Industrial Co. Ltd. We are now arranging to begin the machine industry of manufacturing the agricultural engines and tools, and repairing the spinning and weaving machines and automobiles.

a. Date of construction
Feb. 11th. 1944 (When the Kureha Aircraft Co. Ltd. was founded.)
Nov. 1st. 1945. (Transfered to the Kureha Industrial Co. Ltd.)

✓ b. Date of first operation
Feb. 11th. 1944

c. 1935-1941 production
(In this period, the Fukuno works were a spinning mill of the Kureha Weaving Co.)

Product	Annual Value in yen
Cotton yarn & fabric	12,000,000.

d. Present capitulization in yen
30,000,000.

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e. Change made in capital structure since 1935
Feb. 11th. 1944 (When the Kureha Aircraft Co. Ltd. was founded)
Capital 20,000,000
Chief stockholder The Daiken Co. Ltd.
On July. 30th. 1945, the capital increased
Capital 30,000,000.
Chief stockholder The Daiken Co; Ltd.

f. Name and adress of parent company
The Daiken Co. Ltd. Soze-cho Kita-ku, Osaka city.

g. Number of shares outstanding
600,000.

h. Member of shares stockholders
The Daiken Co. Ltd. (597,000. shares)

i. Founds received from Government
Nothing

j. On reverse side give outline sketch of plant tanget with approximate. As the enclosed papers.

5. Description
a. Principal products
1. War time
Until Jan. 1944 ----- Cotton yarn and cotton fabric in the capacity of the Kureha Weaving Co. Ltd.
From Feb. 1944 until Aug. 1945 ---- Sheet metal parts and machine parts of a wooden aeroplane in the capacity of the Kureha Aircraft Co. Ltd.
From Jan. 1944 until Aug. 1945 ----- Sheet metal parts of a aeroplane in the capacity of the Mitsubishi Industrial Co. Ltd.
2. At present
Repair of spinning machines
3. Planned for 1946-1947
Manufacture of parts of spinning machine and repair of spinning machine.
Manufacture of small type engine for agricultural use.
" " pumps for agriculture public.
" " machines and tools for agricultural use.
" " parts of automobile engines.
" " forming tools.
Repair of engines for agricultural use and automobiles.

b. Capacity
1. War time
Sheet metal parts of a wooden aeroplane which were produced by way of experiment,
(The Kureha Aircraft Co. Ltd.)
Sheet metal parts of metallic aeroplanes.
(We cannot calculate, as they had been produced by the Mitsubishi Industrial Co. Ltd.)
2. At present

Product	Price
Repair of spinning machine & manufacturing these parts, monthly about 60,000. yen.	
Civilian commodities, monthly about 150,000. yen	

3. 1946-47 (with unristricted access to materials)

Description	Amount(monthly)	Price(monthly)
Parts of spinning machine and repair of spinning machine		400,000
Small engines for agricultural use	50	125,000
Pumps for agricultural public	100	70,000
Flouring and rice cleaning machines	50	80,000

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machine and tools for agricultural use — 50,000
parts of automobiles — 640,000
Forming tools — 50,000
Repair of engines for agricultural use and automobiles — 85,000

c. Number of Employees
1. War time — 1,220
2. At present — 256
3. 1946-47 (at maximum capacity) — 1,200

6. Machinery and Equipment in plant
a. The ground area — 92,373m
b. The building area — 27,142m
c. Machinery
1. At present
As the enclosed paper No.1
2. Plan of machines after converting
As the enclosed paper No.2
Note: Machines above-mentioned belong to the Kureha Aircraft Co. Ltd., and machines belonging to the Mitsubishi co. Ltd. were carried out and assembled to the Daimon Works after the inspection by the Allied Forces.

d. Equipment

Description	Quantity	Condition
Heating Appratus	1 set	good
Steam piping	1 "	"
Hydrant apparatus	1 "	"
Transformation appratus	1 "	"
Gas producing apparatus	1 "	"
Sand-blasting appratus	1 "	"

Note: These apparatuses which were those of the spinning factory days, belong to and fix on the factory.

7. Present stocks of raw materials, supplies and unfinished goods.
a. Raw materials
Nothing
b. Supplies

Description	Quantity(Kg)	Condition
Steel	26,000	good
Special steel	22,000	"
Aluminium alloy	30,000	"
Paints	,100	"

Note: Supplies above-mention belong to the Kureha Industrial Co. Ltd., and supplies belonging to the Mitsubishi Industrial Co. Ltd. were carried out after the inspection by the Allied Forces.

c. Unfinished Goods
All destroyed and carried out by the Allied Forces.

8. Present stocks of finished goods
Nothing

9. Present stocks of Fuel
Nothing

10. Machinery and equipment needed for maximum production 1946-1947
a. Machinery (written on 6-c-2: the enclosed paper No.2)

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b. Equipment (written on 6-d.: the enclosed paper No.2)

Description	Quntity
Casting and Forging Apparatus	1 Set
Test Working Apparatus	1 Set

11. Raw materials and Supplies needed (monthly)

a. For Present Capacity (5B-2 above mentioned)

Article (Description)	Quntity
Common steel	2 Ton
Special steel	0.5 "
Paints	0.05"

b. For Maximum (5B-2 above mentioned)

Description	Quntity
Cast iron	113 Kg
Steel	71 "
Special steel	19 "
Copper alloy	1.6 "
Babbit metal	0.8 "
Tool steel	7 "
Aluminium alloy	1.8 "
Others (Zinc, Tin, Antimony)	1.6 "

12. Fuel needed (monthly)

Description	Quntity
Gasoline	1.8 Kl
Alcohol	4.6 "
Benzol	0.2 "
Light oil	2.2 "
Petroleum	0.4 "
Heavy oil	0.7 "
Coal	60 Ton
Coke	100 "
Charcoal	1.6 "
Woods	4.6 "

13. Additional personal needed (Not locally available)

Do not need consideration.

14. Price (Give current selling prices in yen of principal products)

Description	Unit	Price (in yen)
Small type engine for agricultural use	1 Set	2,500
Pump for agriculture public	1 Set	700
Flouring & rice-cleaning machine	each 1 Set	1,000

15. Remarks

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16. Certification by applicant:

"I certify that the information contained herein is true to the best of my knowledge and belief."

Signed M. Morita

Title Managing Director

17. Action by Occupation Forces.

The factory described in this application has been inspected and the following action:

a. Ordered to remain closed Yes_____ No_____

b. Ordered to cease operations immediately Yes_____ No_____

c. Authorized to produce at the following rate:

Items to be manufactured	Monthly Quantity

_____
Signature of Authorizing Officer

_____
Designation of Authorizing Unit

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No.I.

The enclosed paper No.I.

Name of Machine.	Type & Size	Amount	Makers	Note
Lathe	8'	1	Hatano Seiki Co.	
"	5'3"	3	Teikoku Keki Co.	
"	No.3.5 4.6'	11	Hokuriku Kikai Co.	
"		1	Tonami Keki	
"	8'	1	Osakakōsakusho	
"	4'6"	18	Hannya Iron Works	
"	5'	1	Mihara Iron Works	
"	1meter	2	Hannya Iron Works	
"	4'6"	2	" "	
"	6'	1	Deishi Co.	
"	4'6'	2	Hannya Iron Works	
"	1meter	2	" "	
"	5'6"	1	" "	
"	5'3"	2	Teikō Keki Co.	
"	6'	3	Shimada Seisaku Co.	
"	18'	1	Daiwa Keki Co.	
"	4'	3	Riken Kogyo Co.	
"	18'	1	Inoue Iron Works	
"	6'	2		
"	5'6"	2	Hannya Iron Works	
"	4'	1	Hakyosha Co.	
"	3'2"	1		
"	6'	1	Hannya Iron Works	
"	10'	1	" "	
"	4'5"	4	" "	
Turret Lathe	6'	7	Hanshin Kikai Co.	
"	1meter	2	Fuji Kikai Co.	
"	6'	3	Harada Iron Works	
Screw Cutting Lathe		1		
Vertical Drilling Machine	20"	1		
"	20"	3		
"	"	3	Suzuta Seisakusho	
"	22"	1	Yoshida Iron Works	
"	"	4		
"	24"	1	Wakayama Iron Works	
"	"	1	Nishimura Iron Works	
Boring Machine		2		
Multi Shaft Drilling Machine	B,Shaft	1		
Radial Drilling Machine	ABF	1	Aikawa Chūzo Co.	
Universal Milling Machine	No.0	3	Kyōhiku Iron Works	
Horizontal Milling Machine	No.0	1	Morita Seisaku Co.	
"	"	1	Miwa Seiki Co.	
"	"	1	Tonami Keki Co.	
"	No.2	1	Senko Keki Co.	
"	No.0	1	Hokuriku Co.	
Vertical Milling Machine	No.2	3	Tateyama Kyōko Co.	
"	No.1	2	Kyoto Seisaku Co.	
"	No.2	1	Kasuga Kikai Co.	
"	"	1	Yamasaka Iron Works	

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Name	Type & Size	Amount	Makers	Note
Thread Miller		2	Fuji Seisaku Co.	
Grinder		3	Home Made	
Grinding Machine		1	Takagi Seisaku Co.	
"		1	Daiwa Keki Co.	
"	PSG	1	Daiichi Seimitsu Kogyosha	
"		1	Hiraiwa Iron Works	
"	6"	1		
Tool Grinding Machine		1	Seneike Seisakusho	
"	290mmX300mm	2	Meteshiro Iron Works	
Grinding Machine	1½"	1		
Shaping Machine	24"	2	Dainenzi Seisaku Co.	
"	12"	1	Inagawa Iron Works	
"	24"	1	Toyo Kogyo Co.	
"	18"	1	Nishimura Co.	
"	28"	1	Nakine Iron Works	
Slotting Machine		1	Hiraiwa Iron Works	
"	No.120	3	" "	
"	12"	1	Toyo Co.	
"	10"	1	Shibayama Iron Works	
Planer	7'	1	Matsumoto Chuzo Co.	
Bending Machine	2X1000mm	4	Niigata Kikai Co.	
"	3X1200mm	2	Kansai Kinzuku Co.	
"	2X1000mm	1	" "	
"	4m	1	Miyata Seisaku Co.	
Meter Press	35ton	1	Mitsukuni Kogyosho	
"	30 "	1	Fuji Seiki	
"	10 "	1		
"	6 "	1		
"	5 "	1		
"	3 "	1		
"	75 "	1	Kyowa Seiki	
"	" "	1		
"	10 "	1	Kubota Iron Works	
"	20 "	1	Beshin Kogyo	
"	75 "	1	" "	
"	" "	1	" "	
Press		6		
Hydraulic Press		1	Ashikaga Works	
"		1	Nishiki Works	
"		12		
Eccentric Press		1		
"		1		
"		1	Akishu Co.	
Crank Press	150ton	1	Sankin Co.	
Friction Press	50 "	1	Osaka Press Co.	
Compressor	45 "	1	" "	
		2	Niigata Kikai	

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Name	Type & Size	Amount	Makers	Note
Nippling Machine	750 200X400	1	Daiza Seki	
"	3X800	1	Osaka Bankin	
Rivetting Machine		1		
Pipe Bending Machine		1		
Universal Forming Bender	UB. 50X50	1	Sato Kogyo	
Vibro Shearing Machine		1	Miyake Kinzoku Kogyo	
"		1	Miyata Seisakusho	
Circular Shearing Machine	3X600mm	2	Niigata Kikai Works	
Lever Shearing Machine		3	Dando Seki	
"		1	Yuasa Co.	
"	250mm	1	Niigata Kikai Works	
"		1		
"	5X200mm	1	Nissan Iron Works	
Square Shearing Machine	4X1200mm	1	Nankai Suisatsuki	
"	3X1000	1	Seishin Kogyosho	
Bench Drilling Machine		19	Masui Seimitsu Kogyo	
"	12"	4		
"	11"	2		
"	10"	6		
"	10"	1		
"	½HP	1	Kanga Co.	
"	¼HP	3	Taito Kogyosho	
"	8"	1		
Grinder	1HP	3	Kyowa Seiko Co.	
"	2HP	8	"	
"	½HP	1		
"	½HP	2	Manshin Kikai Co.	
"		1		
"	2HP	1	Kyokuto Koki Co;	
"	1HP	1	Hikari Dendo Kogyo	
"	2HP	1	"	
"	1HP	1	Ten Dendo Kogyo	
		1	Nishiki Works	
Portable Grinder	BM	2	Kokusan Flex Co.	
Grinder		1	Hidachi Co.	
"	2HP	1	Kanzaki Kogyo Co.	
Centering Machine	1500RPM	2	Yamaguchi Seiki	
Cutting Machine		2	Nihon Kosaku	
"	5HP	2	Nima Kokuki Co.	
Hacsaw	14"	1		
Cutting Machine 11th High Speed	KB No.2			
		1	Nippon Kosakudo Co.	
Hacksaw	14"	5	Hayami Co.	
"	"	1	Arai Factory	
"	36"(band saw)	1	Nippon Nekko Kikai Co.	
"	" (")	1	Niigata Kikai Co.	
Circular Saw		1	Arai Factory	
"	16"	1	Kyowa Seiki Co.	
"	40"(band saw)	1	Nippon Nekko Kikai Co.	
Rectifing Machine	SK 35	1	Sanso Tekusho Kikai Co.	
Planing Machine	12"	1	Nippon Nekko Kikai Co.	
Feed Lathe	6"	1		
Nibbling Machine		1	Yuasa CO.	
"		1	Seikosha Co.	
Roots Blower	300cu-mm	1	Fuji Gokinzoku Co.	
Duty Cutting Machine		1		
Electric Welding Machine	AMV	1	Meirinsha Co.	

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No.4

Name	Type & Size	Amount	Makers	Note
Electric Welding Machine	15KW	1	Inagawa Works	
"		1		
Speed Reduction Machine		1		
Sawing Machine		3		
Hydrsuric Pump	4plunger	4		
Refrigerater		1		
Blower	1HP	1	Tokuan Juke Co.	
Compresser	20"	1	Inagawa Works	
"	50"	1		
"	75"	1		
Reciever		1		
Reciever Tank		1		
Turbine Pump	10HP	2		
"	7½HP	1		
Injecter	1½HP	1		
Beiler		1		
Glazing Furnace	1000X1500mm	2		
Salt Bath		1	Sugimoto Co.	
Oil Furnace		1	"	
Town-gas Producer		1	Nippon Juyuro Co.	
Sand-blast		2	Miwa Kogyo	
Compresser	25HP	1		
Reciever		1	Sugiyama Co.	
Fan	dia 700mm	1		
Salt Bath	200V. 300KW	1		
Switch Beard		1	Yoshiyama Denki Co.	
Parkerising Tank etc.		1	"	
Tank		12	Daimaru Koyudenki Co.	
Pan for Salt Bath 6"X4½"X4½		8	Chuo Saiken Co.	
Town-gas Producer	60K	1	Daimaru Koyudenki Co.	
Acetyene Gas Producer		1	Toho Co.	
Erectric Furnace	30KW	2		
Oil Tank		2	Kokudenki Kogyo Co.	
Charcoal Gas Producer		1		
Acetylene Gas Producer		2	Shinkyo Co.	
Filter		1	Toho Co.	
Transferser	3KW-300KVA	2		
Meter		42		
Condenser		102		
Sawing Machine		4	Midachi Co.	
"		6	Singer	
"		1	Cherry	
		1	Star	
Rice Cleaning Machine		1		
"Mochi-tsuki" Machine		1		
Flouring Machine		1		
Washing Machine		1	Kyowa Seiko Co.	
Nibbling Machine		2		
Dryer		1	Seikosha Co.	
Disinfecting Machine		1		
		1		
Total		234		

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No.5

The enclosed paper No.2.
Machinery & equipments needed for maximum production 1946-1947.
(1) For manufacture of spinning machines & repair of these parts.

Name	Type & Size	Amount	Makers	Note
Lathe	8'	1	Hatano Seiki Co.	
"	No.3 4'	11	Hokuriku Kikai Co.	
"	8'	1	Osaka Works	
"	4'	82	Hannya Iron Works	
"	6'	3	Shibada Works	
"	8'	1	Yamato Koki Co.	
"	4'	3	Riken Kogyo Co.	
"	18'	1	Inoue Iron Works	
"	8'	1		
"	4'	1	Nakayosha Co.	
"	3'2"	1		
"	6'6"	1	Hannya Iron Works	
"	6'	1		
"	6'	1	Hannya Iron Works	
"	10'	1	"	
"	4'5"	1	"	
Turret Lathe	6'	1	Harada Iron Works	
Vertical Drilling Machine	22"	3	Yoshida Works	
"	20"	1	Suzuki Works	
"	"	1		
"	"	3	Suzuta Works	
"	24'	1	Nakayama Iron Works	
"	"	1	Nishimeri Iron Works	
Radial Drilling Machine	ABP	1	Aikawa Casting Co.	
Horizontal Milling Machine	No.0	1	Horita Works	
" "	"	1	Hokuriku Shokai	
"	"	1	Miwa Seiki Co.	
"	No.2	1	Sanko Seki Co.	
"	"	1	Nagasaka Iron Works	
"	"	2	Tateyama Juko Co.	
"	No.1	2	Kyoto Works	
"	No.2	1	Kasuga Kikai Co.	
Grinding Machine		2	Nose Made	
"		1	Takagi Works	
"	1½"	1		
"	6"	1		
Surface Grinding Machine	PSG	1	Daiichi Seimitsu Kogyosyo	
"		1	Norton	
Internal Grinding Machine		1	Hirawa Iron Works	
"	T-74	1	Toyo Kogyo	
"	No.0	1	Showa Seiki	
Cylindrical Grinding Machine	GHP-150	1	Okuma Iron Works	
"		1	Brown & Sharp	
Universal Grinding Machine	200X750	1	Showa Seiki	
Planer	7'	1	Matsumoto Chuzo	
Shaping Machine	16'	1	Nishimura Co.	

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Name	Type & size	Amount	Makers	Note
Shaping Machine	28"	1	Makino Iron Works	
"	24"	2	Daneuji Works	
"	12"	1	Toyo Kogyo	
"	12"	1	Isagawa Works	
Slotting Machine	120	3	Hiraiwa Iron Works	
"		1	"	
"	10"	1	Shibayama Iron Works	
"	12"	1	Toho Co.	
Press		8		
Meter Press	35ton	1	Mitsukuni Jukogyo	
"	30"	1	Fuji Seiki	
"	10"	1		
"	5"	1		
"	"	1		
"	3"	1		
"	75"	1	Kyowa Seiki	
"	"	1		
"	"	1	Beshia Kogyo	
"	20"	1		
"	10"	1		
Eccentric Press		1		
"		1		
Friction Press	50ton	1	Osaka Press	
"	15"	1	"	
Universal Forming Bender	50X50mm	1	Sato Kogyo	
Crank Press	120ton	1	Sankin Seisaku Co.	
Lever Sharing Machine		3	Daido Seiki Co.	
"		2	Yuasa Co.	
"	250mm	3	Nigata Kikai	
"	5mmX100	1	Nissan Iron Works	
Tool Grinding Machine		1	Sanaike Seisakusho	
"	290mmX300mm	2	Meteshiro Iron Works	
Square Sharing Machine	4X1200mm	1	Nankai Suiatsu	
"	3X1000mm	1	Beshia Kogyo	
Bending Machine	2X1000mm	4	Nigata Kikai	
"	3X1200mm	2	Kansai Kinzoku	
"	2X1000mm	1	"	
Compressor	10ton	2	Nigata Kikai	
Rivetting Machine		1		
Pipe Bending Machine		1		
Nippling Machine	200X400	1	Daido Seiki	
Bench Drilling Machine	12"	1		
"	10"	1	Nitto Kogyo	
"	"	1		
"		4	Nasui Seisitsu Kogyo	
"	½ HP	3	Taito Kogyo	
"	¼HP	1	Kanago	
"	8"	1		
"	10"	4		
Grinder	2HP	4	Kyowa Seiko	
"	"	1	Kyokuto Koki	
"	1HP	3	Kyowa Seiko	
"	"	2	Tea Sendo Kogyo	
"	½HP	1		
"		1		
"		1	Nishiki Works	

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Name	Type & Size	Amount	Makers	Note
Portable Grinder	EH	2	Kokusan Flex Co.	
Hidachi Grinder		1		
Grinder	2HP	1	Kazaki Kogyo	
Cutting Machine		2	Nihon Kosokudo Setsudanki	
"	KB No.2	1	"	
"	5HP	2	Mikuma Koku	
Circular Shearing Machine	3X600mm	1	Niigata Kikai	
Centering Machine	1500RPM	1	Yamaguchi Seiki	
Hack Saw	14"	1		
"	"	1	Arai Works	
"	16"	1	Kyowa Seiki	
Circular Saw		1	Arai Works	
Band Saw	38"	1	Nihon Mokko Kikai	
"	"	1	Niigata Kikai	
planing Machine	12"	1	Nihon Mokko	
Woods Lathe	6"	1	"	
Nibbling Machine		1	Yuasa Co.	
"		1	Seikosha Co.	
Electric welding Machine	4KV	1	Meirinsha	
"	15KW	1	Inagawa Works	
Dehydration Machine		1		
Sewing Machine		3		
"		4	Singer	
"		1	Cherry	
Rice Cleaning Machine		1		
Forming Machine		1	Kyowa Seiki	
Compressor	75HP	1		
Receiver Tank		2		
Turbine Pump	10HP	1		
"	7½HP	1		
Injector	1½HP	1		
Boiler		1		
Asetylne Gas Producer		1		
Roots Blower	300ft³/min	1		

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No.8

AERO ARSENAL

(2) Manufacture & repair of engines for agricultural use.

Name	Type & Size	Amount	Makers	Note
Lathe	MLC-30A	4	Shimazete Iron Works	
"	4"	1	Hewa Juke	
"	"	1	Hokuriku Kikai	
"	PAL	3	Rikea Kogyo	
"	400"	5	Toye Kikai	
"	ML0-3	1	Shimazete Iron Works	
"		1	Kalger	
"		1	Matsushita Iron Works	
"	500"	1	Toye Kikai	
"	12"	1	Okuma Iron Works	
Turret Lathe	T-6	1	Hidachi Seiki	
"	T0-51"	1	Tokye Kikai	
"	No.4 "	1	Cisholt	
"		1	Warner ef Swasy	
Vertical Turret Lathe	680	1	Bullard	
"	D.T.S-6	1	Ebara Seisakusho	
Crank Shuft Lathe		1	Gasden Co.	
Gap Lathe	800	1	Skuma Kosakusho	
Drilling Machine	DH	1	Okuma Iron Works	
"		1	Aoki Iron Works	
Radial Drilling Machine	RM-1250	1	Dainippon Koki	
"	1500	1	American Tool Co.	
Horizontal Boring Machine	No.3A	1	Universal Boring Machine Co.	
Multi-spindle Drilling Machine		1	Ex-Cello	
Plain Milling Machine	PM	1	Gasden	
Vertical Milling Machine	No.3	2	Pasquino	
"	No.2	1	Hidachi Seiki	
Universal Milling Machine	No.3	1	Brown & Sharp	
Coppy Milling Machine	RNM	1	Riken Juko	
Multi Cut Machine	MD-200	1	Toyoda Koki	
Internal Grinding Machine	No.74	1	Hamada Seiki	
"	12"	1	Heald	
Surface Grinding Machine	24"	1	"	
Cylinarrical Grinding Machine	GHP-150	1	Okuma Iron Works	
"		1	Cincinnati Works	
Universal Grinding Machine	GHU-400	1	Okuma Iron Works	
Universal Tool Grinding Machine	GM	1	"	
Horning Machine		1	Burnes & Drill Co.	
Cylidrical Grinding Machine	No.60	1	Heald	
Crank Pin Grinding Machine		1	Norton	
Slotting Machine	PF-300	1	Fukui Iron Works	
Shaping Machine		1	Okuma Iron Works	
"		1	Nakagawa Kikai	
Lapping Machine		1	Micon	
Seat Scoping Machine		1	Yamaguchi Kikai	
Cam Grinding Machine		1	Landis	
Reaming Machine		1	Behringer	
Hand Press		2	Ezaki Iron Works	
Panching Machine	15ton	1	Nakiyama Seisakusho	
Bench drilling Machine		2	Rokuroku Co.	
Tool Grinder		3	Hidachi Seisakusho	
Bench Grinding Machine	—	1		
Tool Post Grinder		1	Hidachi Seisakusho	
Buffing Machine		2	"	
Flexible Grinder	BM	5	Tokusen Flex Co.	
Hack Saw		1		

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Name	Type & Size	Amount	Makers	Note
Engraving Machine		1	Naigai Seiki	
Portable Grinder		2	Kaneko Kikai	
Piston Ring Lapper		2	Tama Kogyo	
Triclene Washing Unit		1	Miwa Seisakusho	
Washing Unit		1	Asaki Kogyo	
(3) Manufacture & repair pumps for agriculture & public works.				
Lathe	LLC 20A	2	Shimamoto Iron Works	
"	400	1	Toyo Kikai Co.	
"	6'	2	Taiko Kikai Co.	
"	S-12"	1	Le Blond	
Turret Lathe	LC-3E	1	Kiriu Kikai Co.	
Surface Lathe		1	Shoun Kosaku Co.	
Drilling Machine	DHU	1	Okuma Iron Works	
"		1	Auerbach & Sheibe	
Radial Drilling Machine	RB-1000	1	Dainippon Koki Co.	
Vertical Milling Machine	No.1	1	Okuma Iron Works	
Universal " "		1	Karatsu Iron Works	
Internal Grinding Machine	T-81	1	Toyo Co.	
Surface " "	No.1	1	Hasanda Seiki Co.	
Cylindrical " "		1	Naxos Union	
Slotter		1	Seiken Kikai Co.	
Shaping Machine		1		
Hand Press		1	Izaki Iron Works	
Bench Drilling Machine		2	Hidachi Seisakusho	
Bite Grinder		1		
Buffing Machine		1	Kanta Co.	
Flexible Grinder	B/H	3	Kokusan Flex Co.	
Corner Rounding Machine		1	Maida Kosakuki Co.	
Air Compressor		1		
(4) Manufacture of Flouring machine, rice cleaning machine.				
Lathe	400	2	Toyo Kikai Co.	
"	6'	1	Taiko Kikai Co,	
"	12'	1	Ikegai Iron Works	
Vertical Lathe	VTS 11	1	Shibaura Kosaku Co.	
Surfacing Lathe		1	Shoun Kosaku Co.	
Radial Drilling Machine	RM-1250	2	Dainippon Koki Co.	
Horizontal Milling Machine	HM	1	Gasaden Co.	
Vertical " "	2	1	Koa Kikai Co.	
Universal " "		1	Gasaden Co.	
Slotting Machine	500mm	1	Asano Juko Co.	
"	P.-200	1	Fukui Iron Works	
Gearing Machine		1	Kitahara Press Co.	
Crank Press	30ton	1	L. Schuile Co.	
Mortor Press	50 "	1	Lucas Co.	
Hydraulic Press	100 "	1	Kosatsu Seisakusho	
Bench Drilling Machine		1	Hidachi Seisakusho	
"		1	Yasuino Seisakusho	
Buffing Machine		1	Hidachi Seisakusho	
"		1	Mata Shoksi	
Tool Grinder		1	Hidachi Seisakusho	
"		1	Nippon Dendo Kogyosha	
Flexible Grinder	B&H	3	Kokusan Flex Co.	
Band Filling Machine		1	Yokoi Co.	
Sand Blast		1	Taihoku Casting Co.	

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(5) Manufacture of automobile engine parts.

Name	Type & Size	Amount	Makers	Note
Lathe	124mm	6	Kanno Iron Works	
"	4'	3	Kosuda "	
"	PAL 4'	7	Riken Kōgyo Co.	
"	4'	2	Tamura Seisakusho	
"	"	2	Nōwa Jūko Co.	
"	6'	1	Teikō Kikai Co.	
"	400	14	Tōyo Kikai Co.	
"	TSM	2	Shōun Kōsakusho	
"	EGM	1	"	
"	LB-19	4	Ōsaka Kiko Co.	
"	ELO-3	1	Shimamoto Iron works	
"	DNL45	1	Magdeburg	
"	6'	1	Kalger	
"	ELZOA	4	Shimamoto Iron Works	
"	LGM19	2	Shōun Kōsakusho	
"	12'	1	Ikegai Iron Works	
"	20'	1	Le. Blond	
Turret Lathe	W-24	1	Tokyo Kikai Co.	
"	T- 3	3	Hidachi Seiki Co.	
"	T- 4	7	"	
"	T- 5	5	"	
"	T- 6	2	"	
"	ST-90	1	Mitsubishi Kōsaku Co.	
"	KT-42	1	"	
"	KC-36	1	Pittler	
"	LC-32	3	Airihu Kikai co.	
"	TH- 2	2	Teikoku Seimitsu Co.	
"	ZC 6	3	Kikukawa Iron Works	
"	No.4	1	Cisholt	
"	"	2	Warner & Swasy	
Multi-cut Lathe	MB 12	1	Toyoda Kōki Co.	
Automatic Lathe		1	Come Automatic Co.	
Drilling Machine		1	Aoki Iron Works	
"	MDH-7	4	Mitsubishi Kōsakuki Co.	
"	MDA	2	" Denki Co.	
"	DH	2	Ōkuma Iron Works	
"	MA	1	K.P.Drilling Machine Co.	
"		1	Sharp Co.	
"	XOSN	1	Kokai Seisōsho	
Radial Drilling Machine	RM-1000	2	Dainippon Kōki Co.	
"	RM-1250	1	"	
"	RM-1500	2	American Tool Co.	
"	4'-0	1	Cincinati	
"	FBR	1	Fuji Seisakusho Co.	
Fine Boring Machine		1	Toyoda Kōki Co.	
"	No.47	1	Heald Machine Co.	
"	ES	1	Toyoda Kōki Co.	
"	HBM	1	Okamoto Kogyo Co.	
Multi-spindle Drilling Machine				
	3-axes	1	Osaka Kiko Co.	
"	D	1	Toyoda Kōki Co.	
Horizontal Milling Machine	No.1D	1	Carney & Trecker	
"	2M	2	Gasden Co.	
"	MP	2	Ōkuma Iron Works	
Vertical Milling Machine	No.1	1	Fritz Werner	

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Name	Type & Size	Amount	Makers	Note
Vertical Milling Machine	NYC No.2	1	Yoneda Iron Works	
"	No.2	1	Kōa Kikai Co.	
"	"	2	Hidachi Seiki Co.	
"	"	1	Ōkuma Iron Works	
"	No.3	1	Pasquino	
Universal Milling Machine	2FA	1	Hidachi Seiki Co.	
"	No.2A	1	Brown & sharp Co.	
"	2	2	Pasquino	
"	No.2B	1	Milwaukee	
"	No.2C	2	Ikegai Iron Work	
Thread Milling Machine	MR32	2	Nagoya Kashi Co.	
"	No. 22k	1	Wanderer	
"		2	Walthum	
Internal Grinding Machine	T-81	1	Tōyo Kogyo Co.	
"	T-72	2	"	
"	RJ-30	1	Wotan	
"	No.72	1	Heald Machine Co.	
Surfacing Grinding Machine		1	Thompson	
"		1	Blanchard	
		1	Schmalts	
Cylindrical Grinding Machine	10X24"	2	Landis Tool	
Universal Grinding Machine	UGA-250	2	Shōnan Kōki Co.	
"		1	Ladis Tool	
Centreless Grinding Machine		1	Cincinati	
"	NR4A	1	Lidkoping	
Thread Grinder	No.31	1	Ex-cell-o	
Universal Tool Grinder	2	2	Cincinati	
Cutter Grinder	P-6	1	Pratt & Whitney	
Universal Tool Grinder		1	Hahn und Kolb	
Slotting Machine	6"	1	Ikegai Iron Works	
"	3N	1	Nikukawa Iron Works	
"	8"	1	Ikegai Iron Works	
"	900X400	1	"	
"	FP-700	1	Fukui Iron Works	
Gear Shaping Machine	6Z	1	Daiizumi Seiki Co.	
"	G36Z	2	Keratsu Iron Work	
"	2M45	1	Megg	
"	300	1	Howa Juko Co.	
"	No.31	1	Fellows Gear Shaper Co.	
Bevel Gear Generating Machine	6"	1	Gleason Co.	
"	MGG17	1	Karetsu Iron Works	
"	M2300	1	Osaka Seisa Co.	
"		1	"	
Gear Grinding Machine	3025	3	Hidachi Seiki Co.	
"	No.420	1	Pratt & Whitney	
"	H3S	1	Megg	
"	No.2	1	Okamoto Kōsakuki Co.	
Bevel Gear Grinding Machine	RB04B0	1	"	
"	AK3	1	Reinecker	
Bevel Gear Lapping Machine	No.0	1	Okamoto Kosakuki Co.	
Hobbing Machine	H102	1	Miklon	
"	24"	2	Karatsu Iron Works	

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Name	Type & Size	Amount	Makers	Note
Spline Hobbing Machine	SH16	2	Karatsu Iron Works	
Lapping Machine		1	Shinagawa Seiki Co.	
Broaching Machine	SPR0S	2	Schutte	
"	NB130	1	Fujikoshi-Kozai Co.	
Tapping Machine		1	Hahnu. Kolb A.G.	
"		1	Chūgai Seiko Co.	
Reaming Machine		1	Ōkuma Iron Works	
Internal Gear Grinder	No.300	1	Hōwa Jūko Co.	
Hand Press		1	Ezaki Iron Works	
Bench Grinding Machine		1	Tsugami Ataka Seisakusho Co.	
Bench Drilling Machine		3	Rokuroku Co.	
"		1	Washino Co.	
"		1		
Bite Grinder		7	Hidachi Seiki Co.	
"		1		
"		3	Hidachi Seiki Co.	
Tool Po st Grinder	CLH	1	Hidachi Seisakusho	
Buffing Machine	APFT	2	"	
Flexible Grinder	BAH	9	Kokusan Flex Co.	
Oil Groover		1	Wiscoco	
Oil Seperator		1	Mitsubishi Kako Co.	
Hack Saw		1	Kousatsu Seisakusho	
"		1	Ōkuma Iron Works	
"		1		
"	B220	3	~~Hidachi-Seiki-Co.~~ Nippon Setsudanki Co.	
Centering Machine	2-axes	1	Enshū Kikai Co.	
Air Compresser		1		
(6) Repair of motor-car.				
Hand Press		2	Ezaki Iron Works	
Electric Press	10ton	1	Kitahara Press Co.	
Friction Press	70 "	1	Hogai Seisakusho	
"	30 "	1	Osaka Press Co.	
Screww Press		1		
Arbor Press		1		
Shearing Machine		1	Sinagg	
"		1		
Crank Press	30ton	1	Yamakawa Press Co.	
"	100 "	1	Osaka Press Co.	
"		1		
Shearing Machine		1		

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Name	Type & Size	Amount	Makers	Note
Bending Machine		1	Makiyama Co.	
Sheet metal Reel		1	Atsuta Arsenal	
"		1	Kitahata Press Co.	
Sheet Metal Bending Machine		1		
Bench Drilling Machine		1	Hidachi Co.	
"	½HP	1	Auerbach & Scheibe	
Tool Grinder	½HP	1	Hitachi Co.	
"	1HP	1	"	
"		1		
Tool Post Grinder	CLH	1	Hitachi Co.	
Buffing Machine		1	"	
Flexible Grinder		3	Sogabe Co.	
Corner Rounding Machine		1	Isui Co.	
Polishing Machine		1	Atsuta Arsenal	
Electric Furnace	100KW	1	Tokyo Denki Co.	
Gas Furnace		1	Chiyoda Gas	
Air Compressor	7atm	1	Nissan Works	
Triclane Washing Unit		1	Miwa Co.	
"		1	Suzuki Co.	
Acetylene Gas Producer		1	Yamatake Co.	
Enamel Persecter		1		
Electric Welding Machine	D.C.5KW	1	Hidachi Co.	
"		1	"	

(6) Heat-treating & Plating.				
Rectifier		1	Osaka Jukogyo	
Tool Grinder	1HP	1	Hidachi Co.	
Threating Machine		1		
Electric Furnace	400-10 95KW	2	Shimazu Seisakusho	
"	DR-1595 D75KW	2	Daido Seiko	
"	400-7 55KW	2	Simazu Seisakusho	
"	L20KW	2	"	
"	125KW	1	Fuju Denro	
Nitrising Furnace	RK70KW	1	Ryuge Kogyo	
"	10KW	2	"	
"	50KW	1	Tokyo Denkiro	
Salt Bath	70KW	1	Matsushita Denki Co.	
"	600-1 20KW	1	Shimazu Seisakusho	
"	600-2 40KW	1	"	
Electric Furnace		1		
Anti-oxide Furnace		1	Daido Seiko Co.	
Gas Furnace		1	Chiyoda Gas Co.	
"	No.4	1		
Oil Furnace		2		
Furnace		1		
Air Compressor	10atm	1	Nissan Seisakusho	
Platting equipment		1		
Sand Brast		1	Saito Iron Works	
Duster		1	"	
Oil Cock		1		
Gear Hardening Machine		1	Gleasen	
High Frequency Melting Unit		1	Nihon Koshuha Co.	

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(7) Casting and forging.

Name	Type & Size	Amount	Makers	Note
Lathe	400	2	Toyo Machine Co.	
"	MGM	1	Shoun Kosaku Co.	
Vertical Lathe		1	Karatsu Iron Works	
Radial Drilling Machine	RM-1500	1	Dainihon Koki Co.	
Bench Drilling Machine	GPFT½HP	1	Hidachi Co.	
Tool Grinder	½HP	1	"	
"		2	"	
Flexible Grinder		3	Kusakabe Co.	
"		2		
Neck Saw	KM	1	Kikukawa Iron Works	
Band-saw-checker	ST-21C	1	"	
Sawing Machine	1HP	1		
"	3HP	1		
"	KW	1	Kikukawa Iron Works	
Saw Setting Machine		3		
Wood Lathe	A3-6	1		
Wood Milling Machine	7.5HP	1	Hidachi Co.	
Automatic Wood Planing Machine		1		
Sand Mixer	5HP	1	Seito Iron Works	
Sand Crusher	2HP	2	Taiyo Chuki	
Sand Mixer	4'	1		
Moulding Machine	K201 W-2	1	Kubota Iron Works	
"	K301	1		
"	R101	1		
"	NT101	2		
Sand Crusher		1		
Sand Mixer		1		
Air Hammer	¼ton	1	Marumi Co.	
"	½ "	1	Seki Co.	
Electric Furnace		1	Fuji Denro Co.	
Drying Furnace for Mould		1	Nippon Kanetsu Co.	
Cupola		1		
Air Compresser	VD7	1		
Sand Brusting Unit		1	Kurakake Co.	

(8) Manufacture of forming tool.

Lathe	4'	1	Tamura Co.
"		1	Hokuriku Kiksi Co.
"		1	Fuji Works
"	MGM	2	Shoun Kosaku Co.
"	400	3	Toyo Kiksi Co.
"	S12	1	Le Blond
"	20	1	"
Vertical Lathe	600	1	Bullard
Thread Cutting Lathe	4'	1	Mitsui Seiki Co.
"	8'	1	"
Relieving Lathe		3	Shuboku Kiksi Co.
Drilling Machine	DH	1	Okuma Iron Works
Radial Drilling Machine	RM-1000	1	Dainippon Koki
Horizontal Boring Machine	No.3A	1	Universal Boring Co.
Jig Boring Machine	B	1	Genevoise
"	No.4	1	Mitsui Seiki Co.
"	No.6	1	"

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Name	Type & Size	Amount	Makers	Note
Horizontal Milling Machine		1	Sansei Works	
Vertical " "	No.3PH	1	Hidachi Works	
" "	No.2	1	Fritz Werner	
" "	No.2	1	Hidachi Works	
Universal "	No.2C	1	Ikegai Iron Works	
" " "	No.3	1	Brown Sharp Co.	
Cutter Milling Machine		2	Riken Juko	
Internal Grinder		1	Wiesecc	
Surface "		1	Norton	
"		1	Tompson	
Universal "		1	Randis	
Thread Grinder		1	Ex'celle'o	
"		1	Lindner	
"		1	Tsugami Ataka Works	
Universal Tool Grinder	No.2	1	Cincinati	
"	P6	1	Hahn & Kolb	
Cutter Grinder		1	Pratt & Whittney	
Twist Drill Grinding Machine		1	Herbert	
Snap Gauge Grinding Machine		1	Mitsui Seiki Co.	
"		1	Studer	
Slotter		1	Fukui Iron Works	
"		1	Kikukawa Iron Works	
Shaper		1	Okuma Iron Works	
Planer		1	Faulbrell	
Broach Grinder		1	Fujikoshi Kozai Co.	
Hand Press		1		
Arbor Press		1		
Bench Drilling Machine		1	Rokuroku Co.	
"		1		
Bench Grinder		1	Tsugami Ataka Co.	
Bite Grinder	½HP	2	Hidachi Works	
"	1HP	1	"	
Portable Grinder		1	Koyanagi Co.	
Flexible Grinder		2		
Oil Groover		1	Wiesecc	
Englaving Machine		1	Iida Co.	
Hack Saw	½HP	1	Washino Co.	
ElecTric Furnace	400-5 30KW	1	Shiwaza Works	
" "	40KW	1	Fuji Denro Co.	
"	18.4KVA	1	"	
"	38KVA	1	"	
Motor Generator	200KW	1		
D.C. Generator	5KW	1	Mitsubishi do.	
Air Compresser		1		
Trielene Washing Unit		1	Miwa Works	
Electric Welding Machine	1.5KW	1	Dengensha Co.	
"		1	Hidachi Co.	
Optical Dividing Head		1	Kōa Kōgaku	
"	1/1000mm	1	Zeiss	

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The Fukuoka plant

福岡工場

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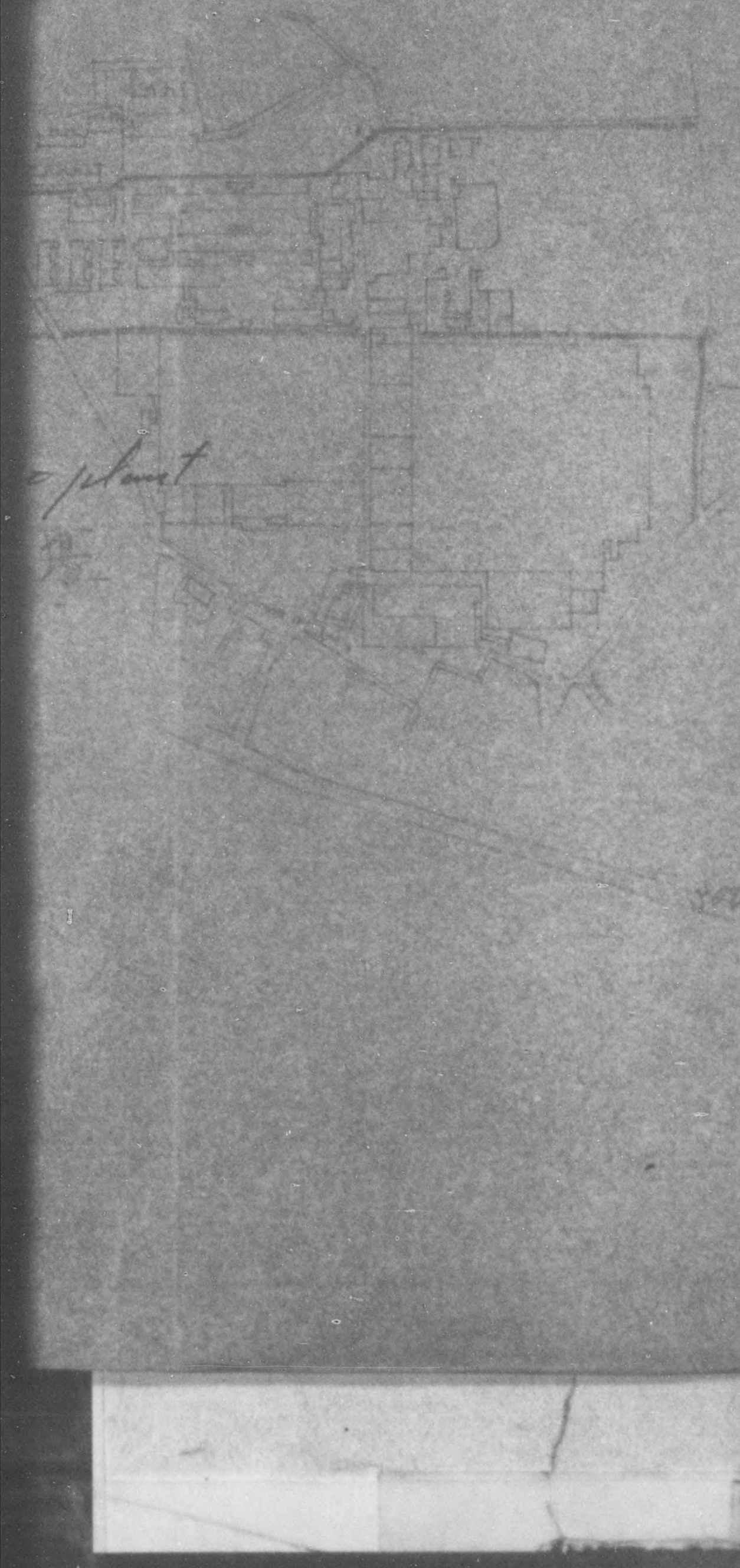

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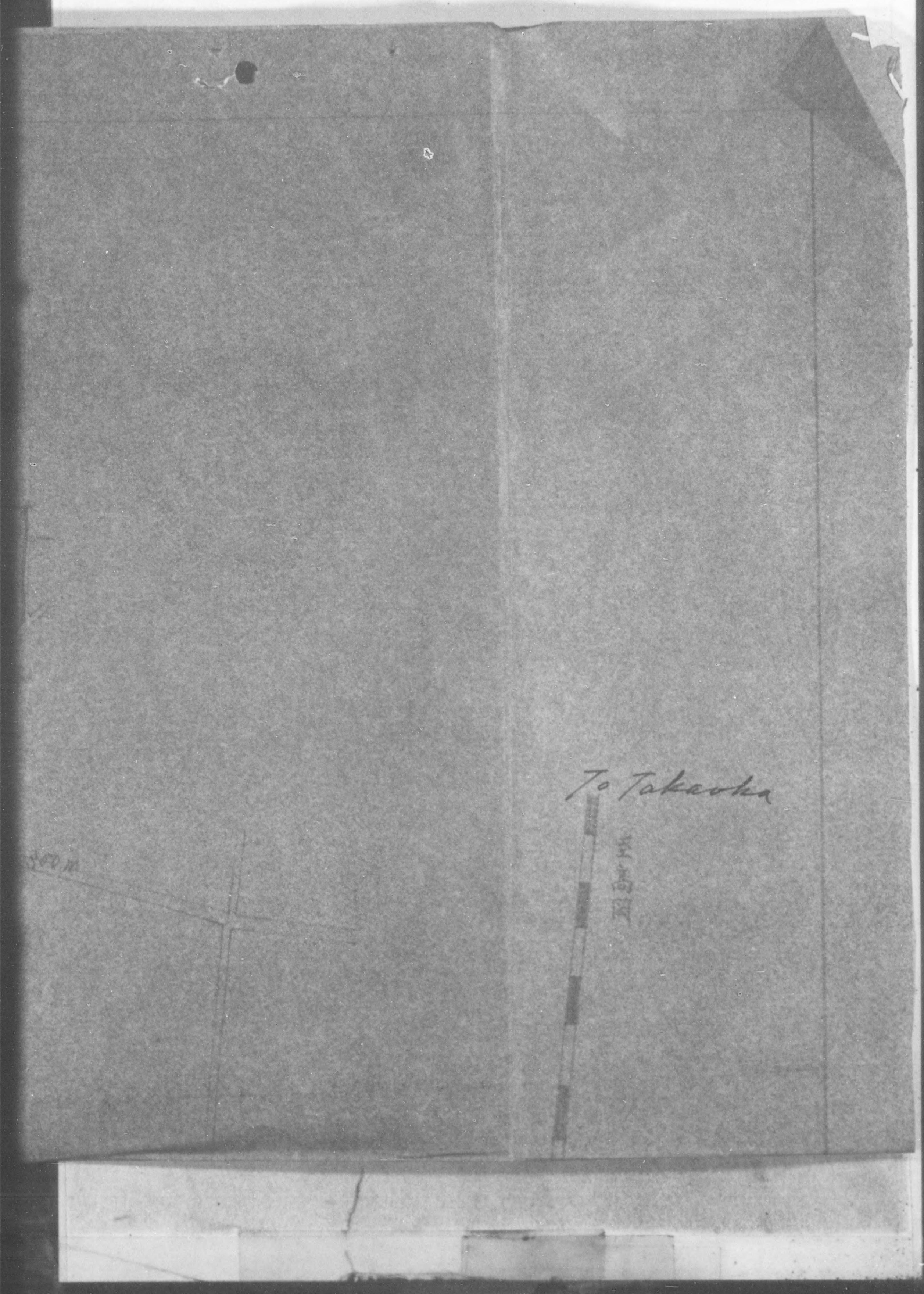

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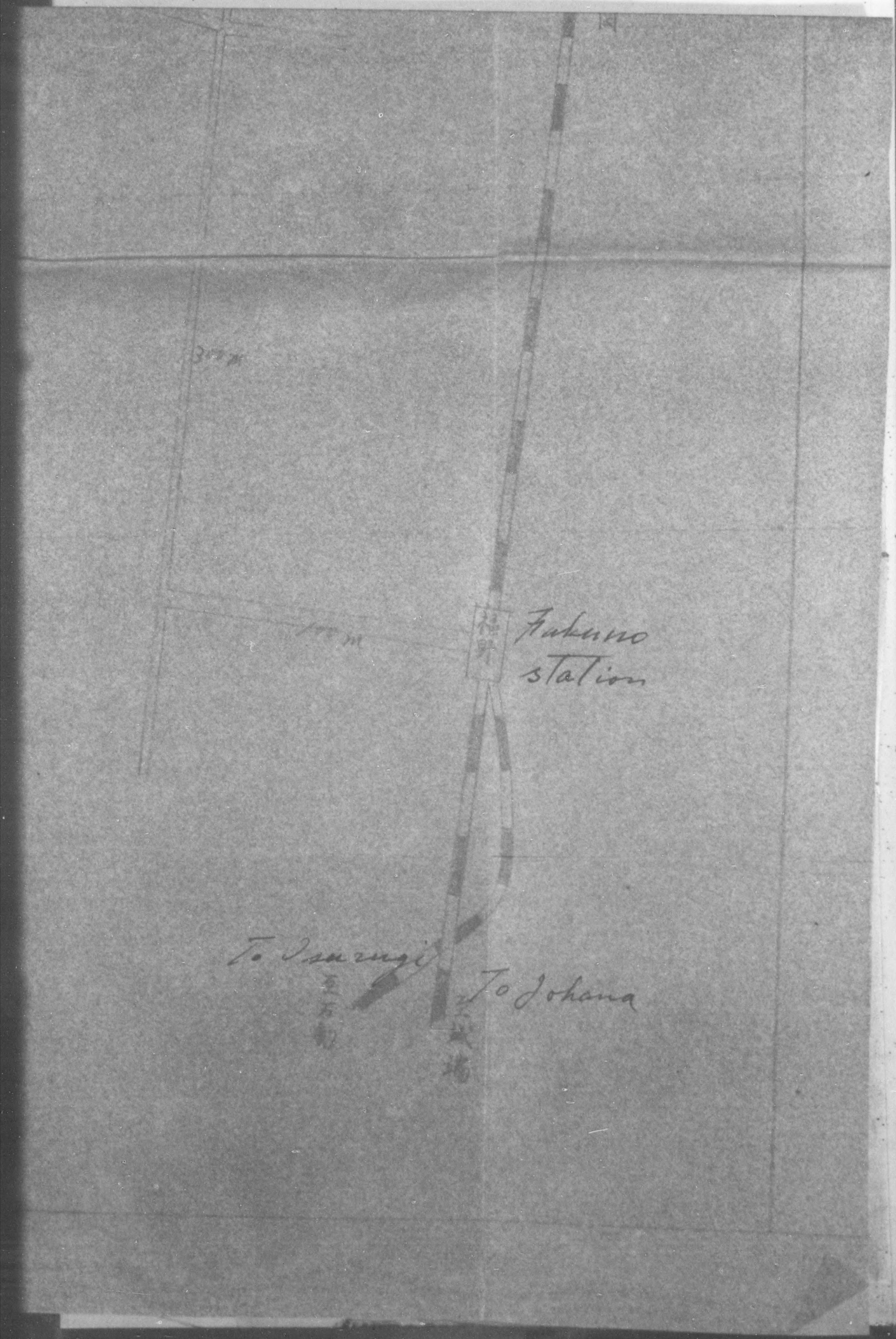

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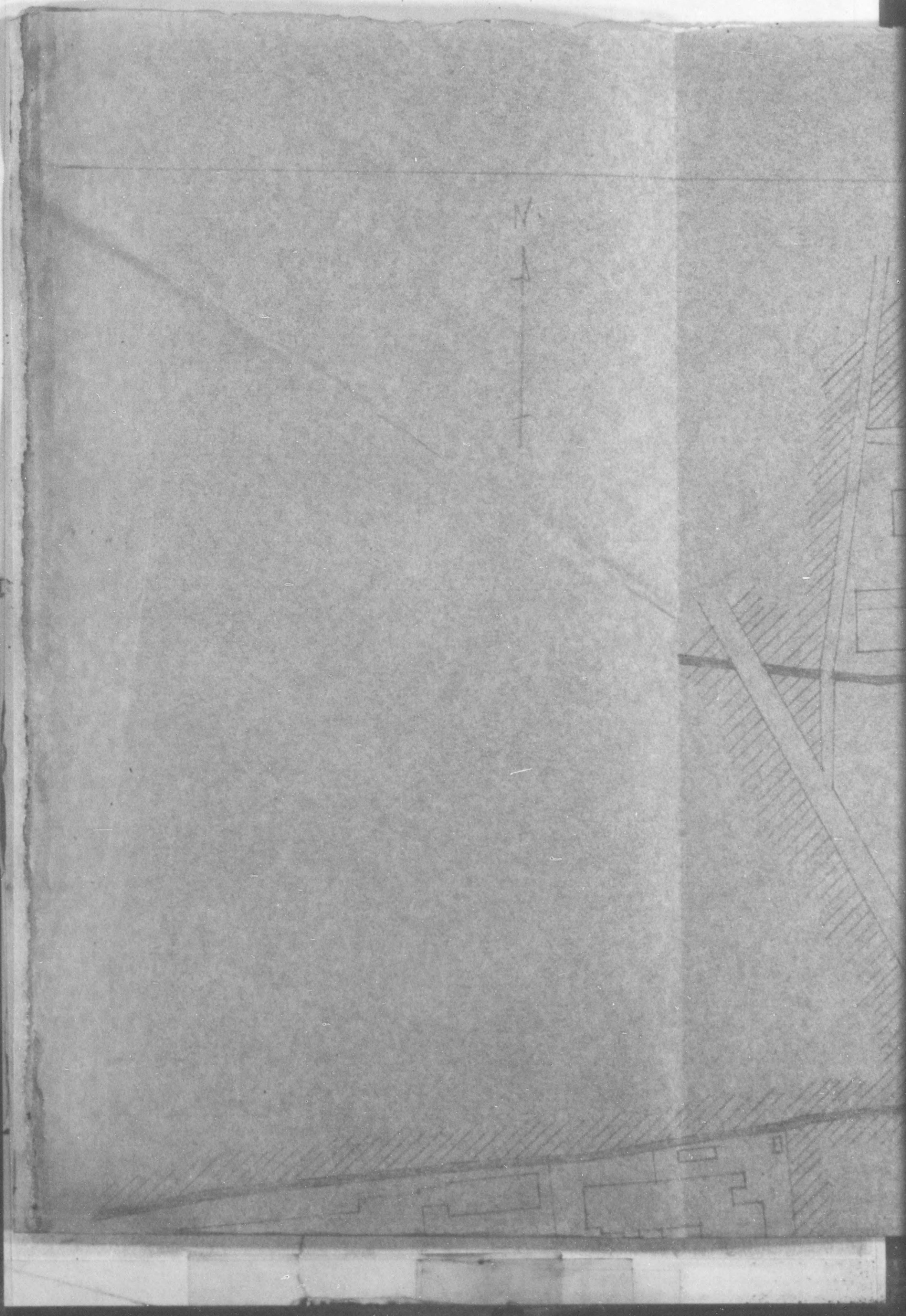

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ARRANGEMENT DIAGRAM

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EMENT DIAGRAM OF FUKUNO

Lodging-house

Hospita

Dep. of
Automobile
repairing

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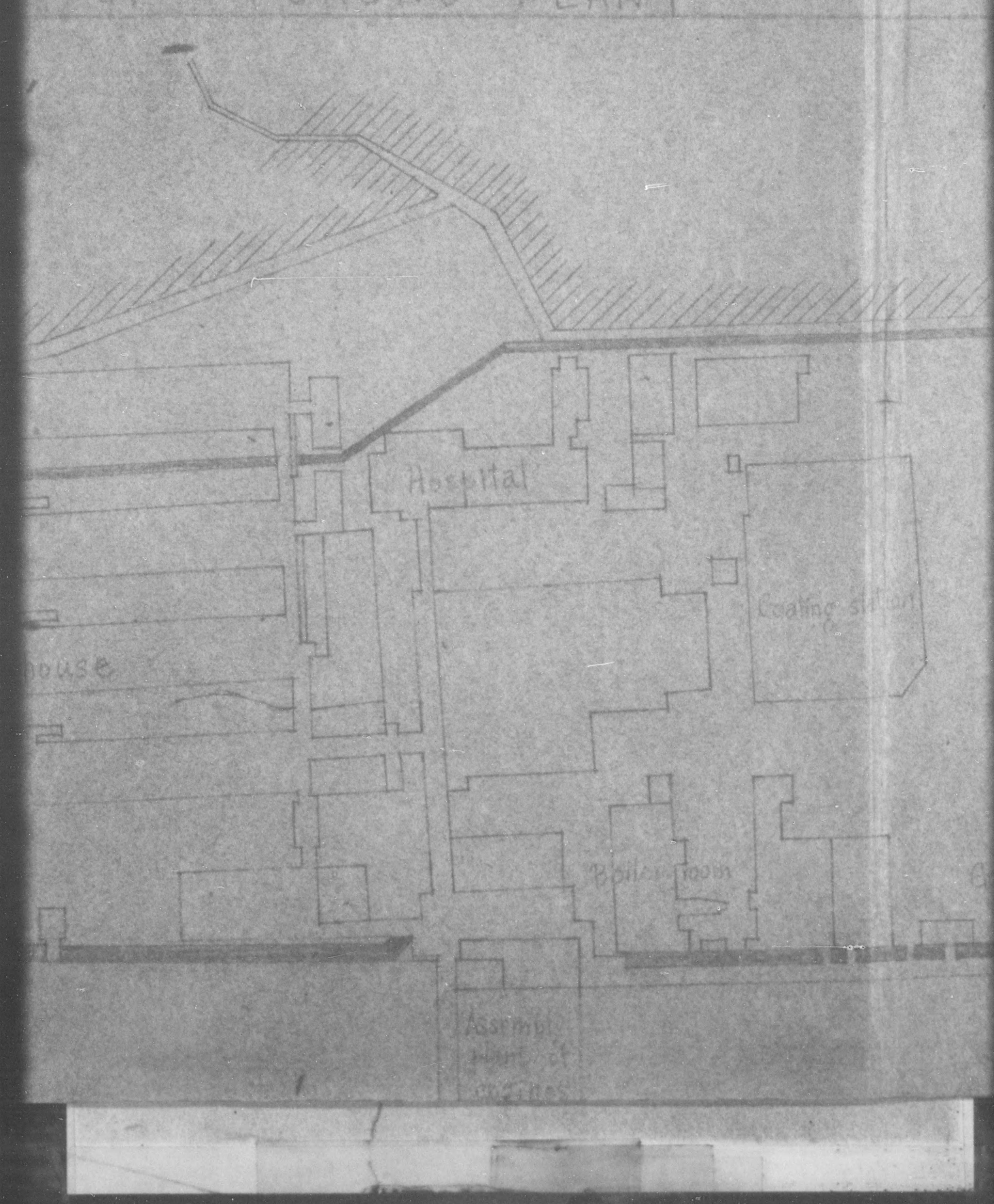
OF FUKUNO PLANT



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PLANT

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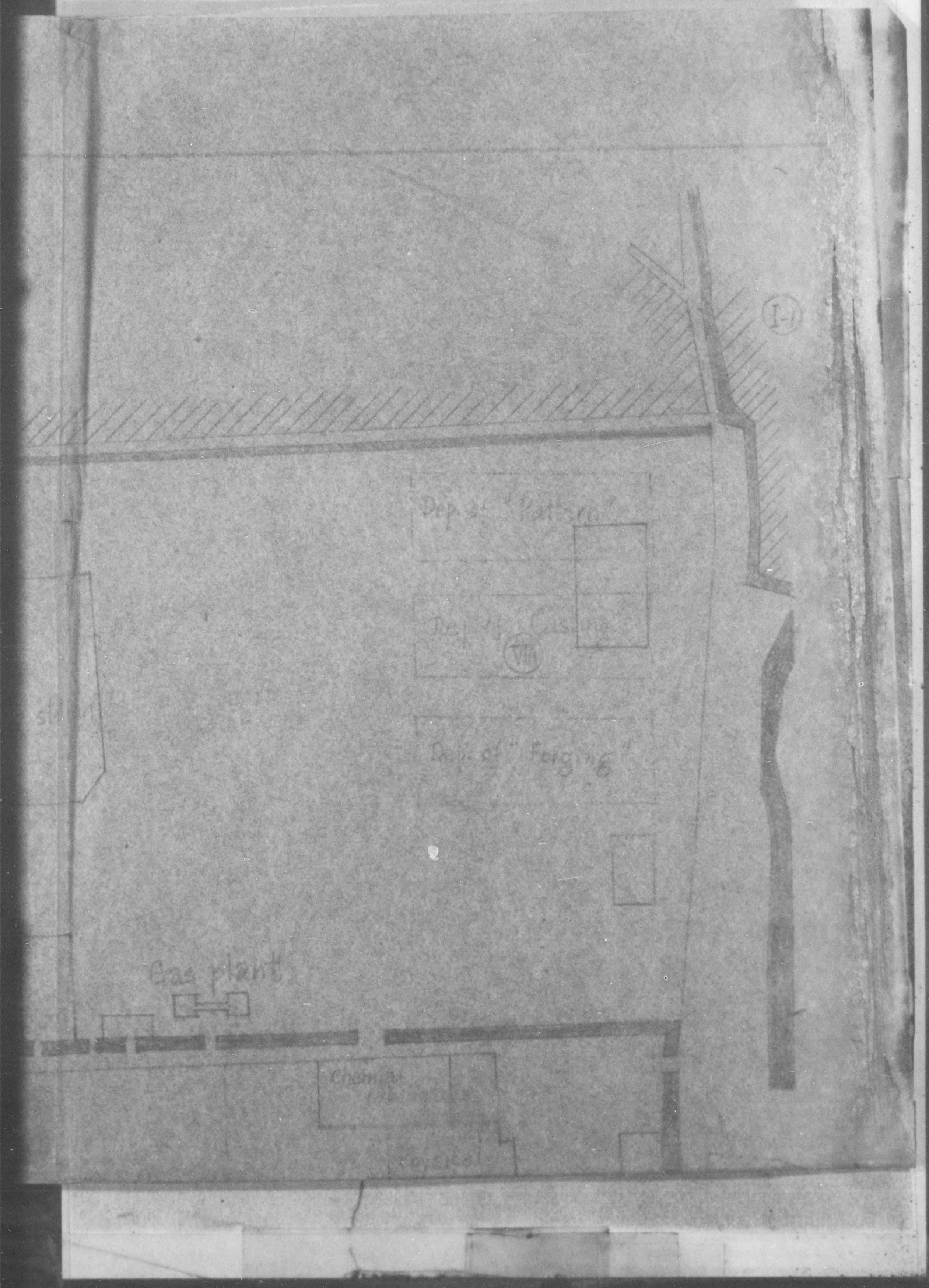

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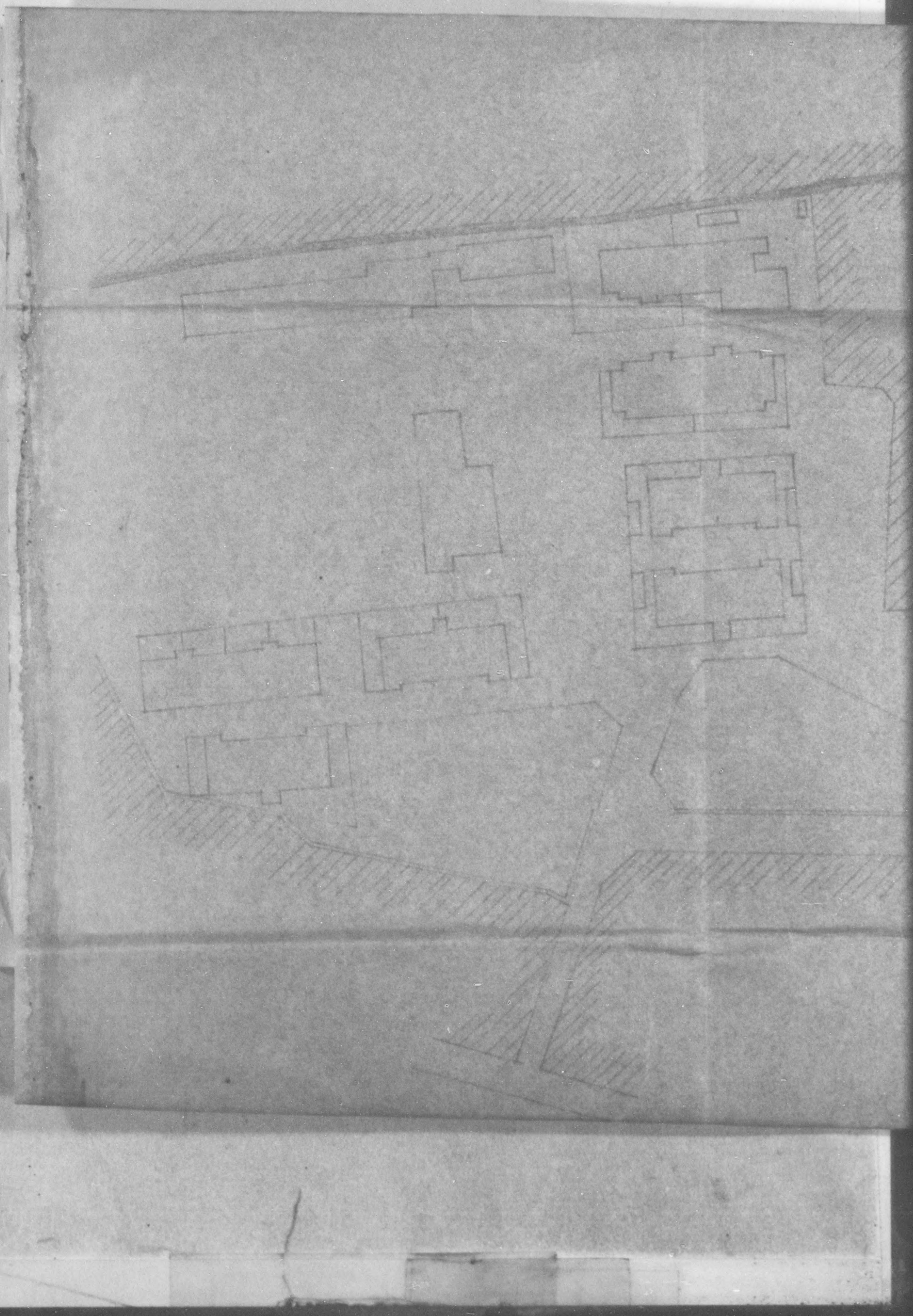

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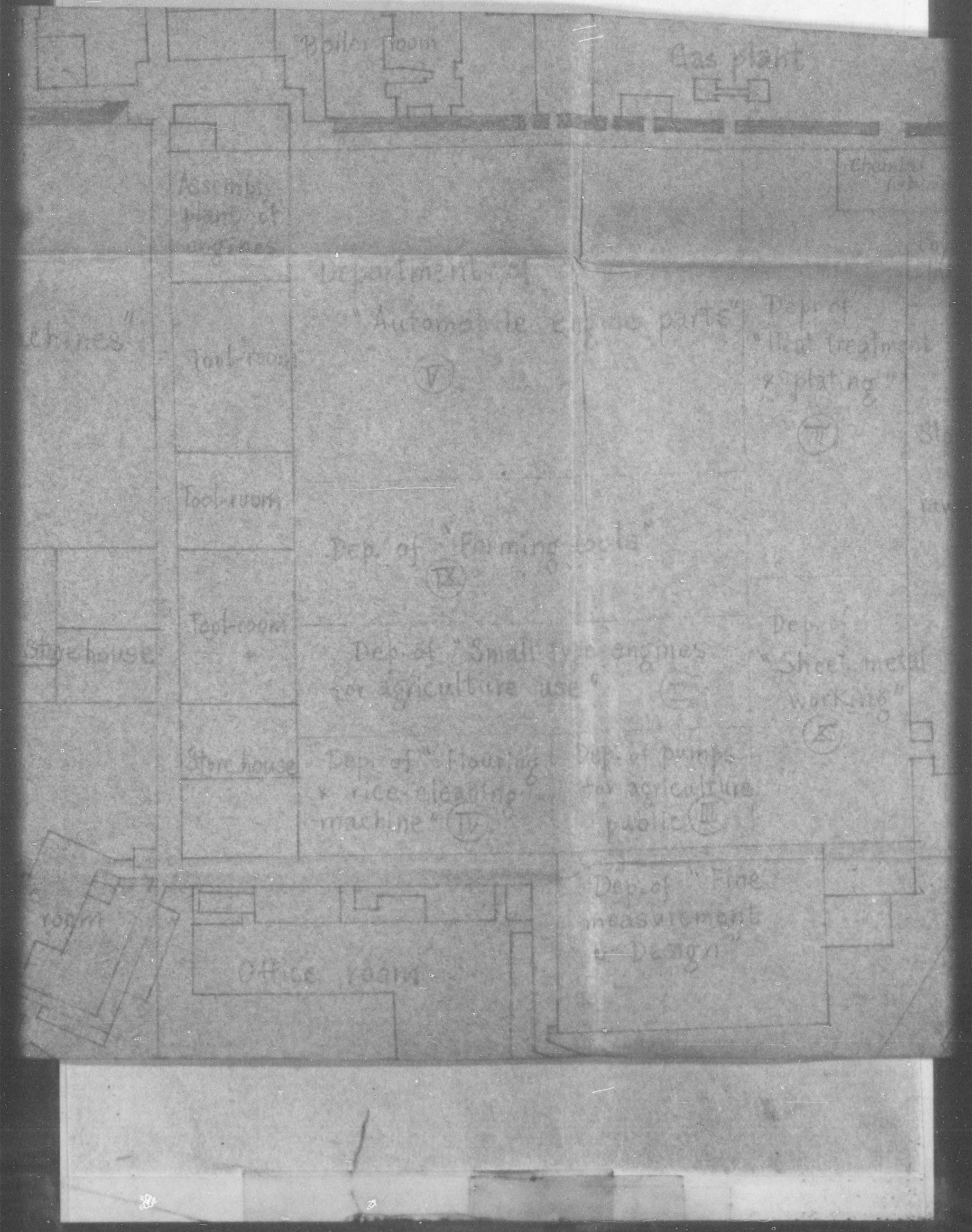

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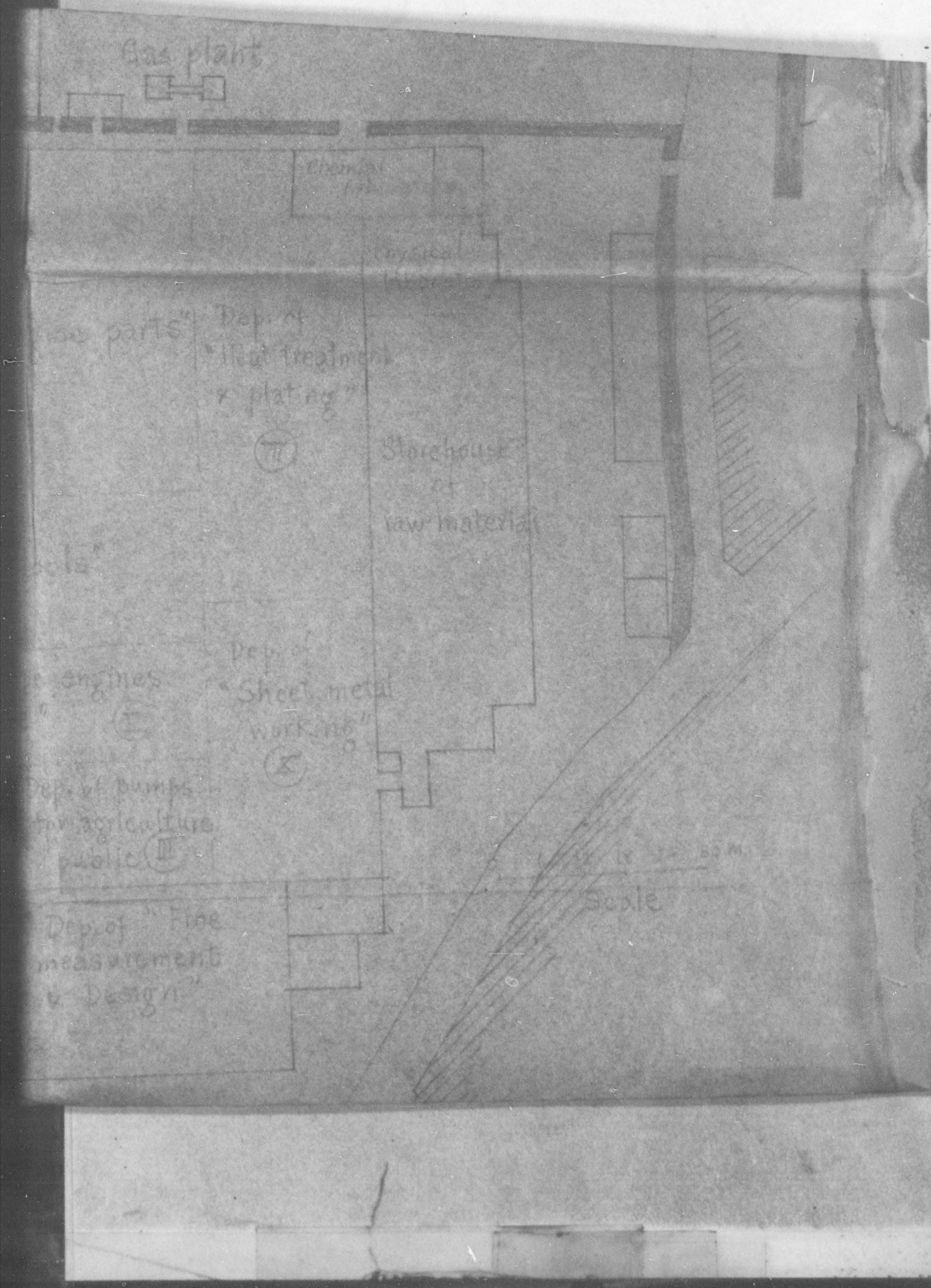

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