

775 013

Date: April 15, 1949

To : Commanding officer of Toyama Mil. Govt Team
 Thru : Commerce and Industry Sec.,
 Toyama Prefectural Office
 From : Custodian Keitaro Kawamichi
 Uozu Works, Nippon Carbide Industries Co., Inc.
 Address: 751 Motoshin, Michishita-mura,
 Shimonikawa-gun, Toyama Pref.

SUBJECT: Application for Approval to Add. Machine.

1. Designated Plant Name

Synthetic Rubber Plant, Uozu Works,
 Nippon Carbide Industries Co., Inc.

2. Location : 751 Motoshin, Michishita-mura,
 Shimonikawa-gun, Toyama Pref.

3. Where Add. Machine is to be Placed:

Roll packing Room, Synthetic Rubber plant

4. Add. Machine and Unit

Name	Unit	Place	Use
12' Mixing Roll	1	Roll R.	Rubber Boot Mft.

5. Period required to complete installation work:

Within about 3 days after approval obtained

Remarks: Above mentioned Machinery are now at
 not-designated Plant of this factory.

--- (2) ---

6. Application Reason:

The above machines are required for Mfg. rubber boots. The approval for conversion to the mfg and for operation was, as per attached paper, obtained on Nov. 21, 1949.

7. Attached paper

1. Conversion and Operation Continuance Approval
 2. Reparatons plant Layout
(Former Synthetic Rubber Plant)
- ... Add. machine above-stated are no-reparations.

S. Takamura
Representing Company

8. Recommendation by Commerce and Industry Section of Ken.

I hereby certify that machinery under Article 4 are necessary to be installed for manufacturing rubber boots.

Signed

H. Kawaguchi

9. Permission (is) (~~is not~~) hereby granted to establish newly machinery as requested in this application

Signed

Kenneth R. Spurr Capron

775 013

C O P Y

HEADQUARTERS
TOYAMA MILITARY GOVERNMENT TEAM
APO 713

20 November 1946

SUBJECT: Continuation of Operation of Nippon Carbide
Industries Co., Inc.

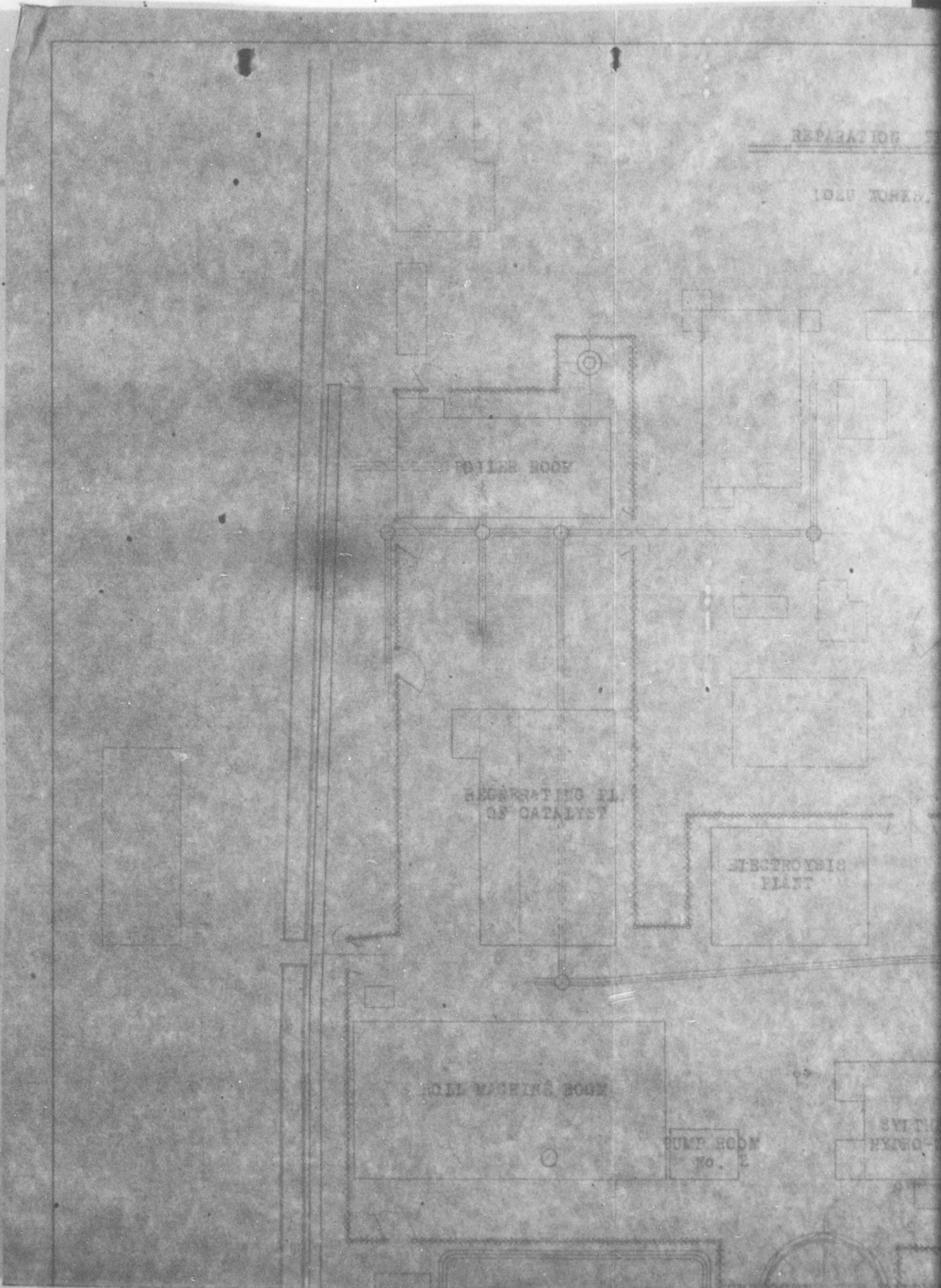
TO : Whom it may Concern

The synthetic rubber plant of the Nippon Carbide Industries Co., Inc. is authorized to continue production of rubber boots, aspirin, acetanilid, benzyl acetophenyl thiocarbide, and P-aminophenyl sulfanilyl guanidine by 4th indorsement from SCAP on subject application. Continued operation of this plant is authorized by the 6th indorsement from I Corps on subject application.

FOR THE COMMANDING OFFICER:

KENNETH R. SPEAS
Capt., FA
Adjutant

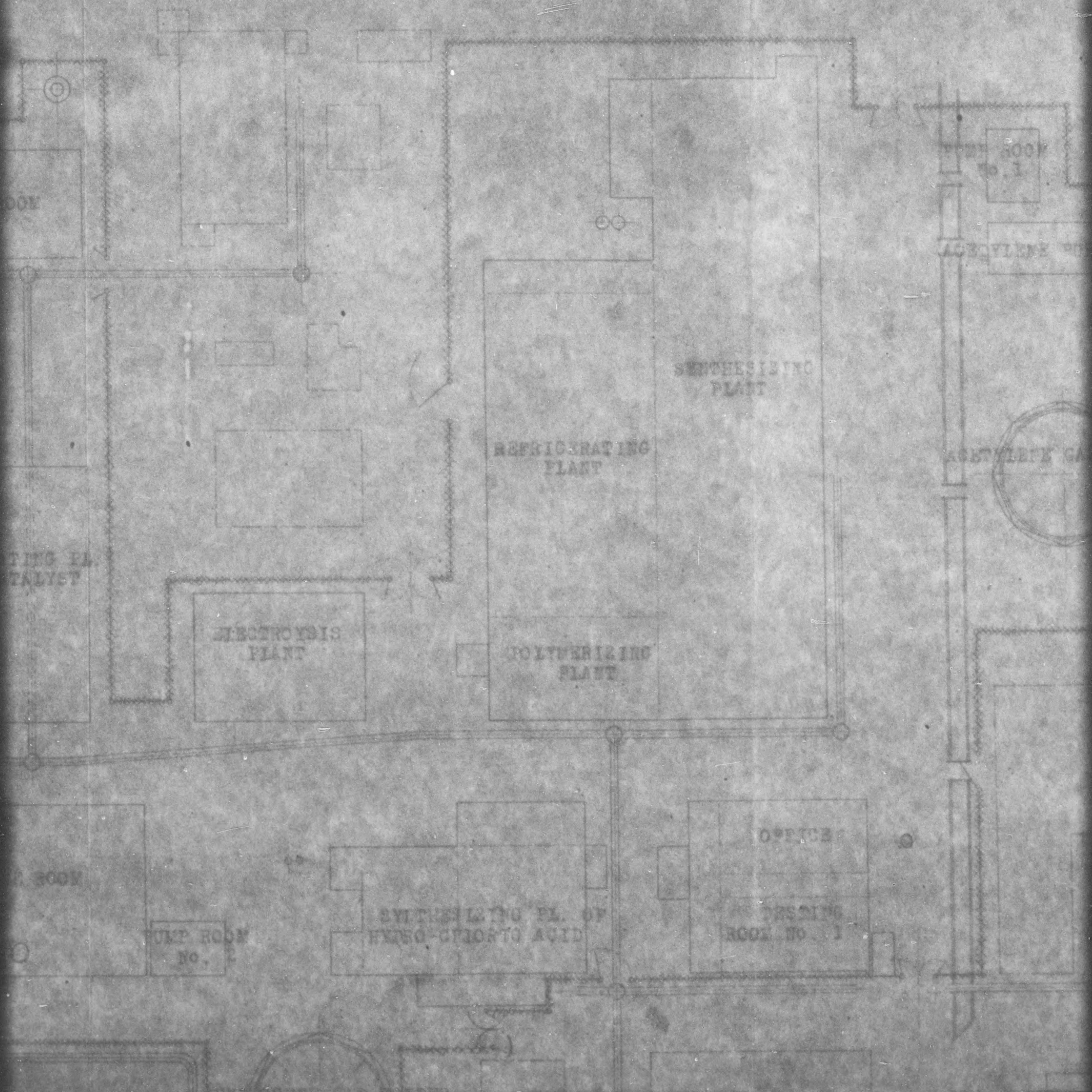
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REPARATION PLANT LAYOUT (SYNTHETIC RUBBER PLANT)

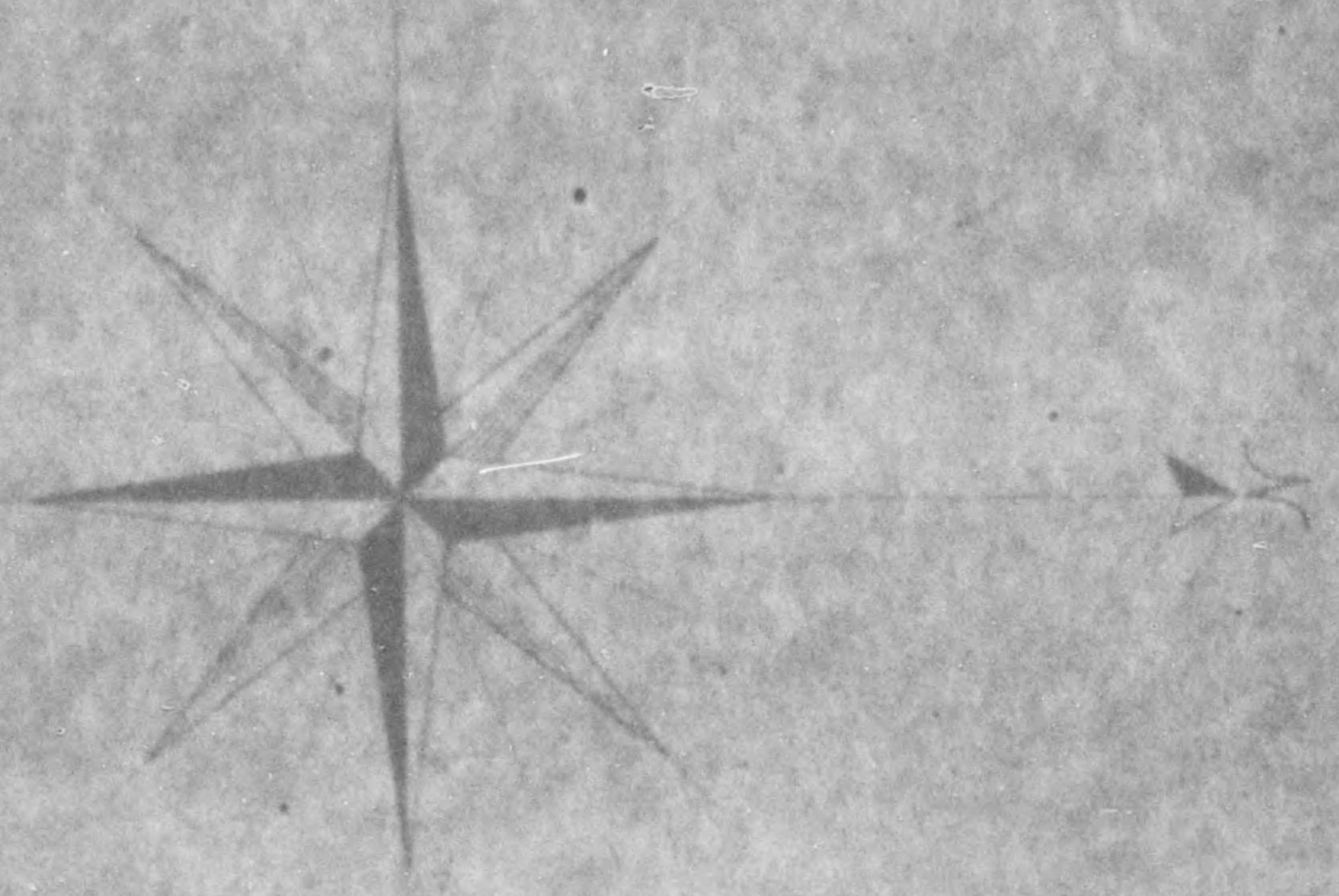
1020 W. 10TH ST. SIPPON CARBIDE INDUSTRIES CO., INC.



775 013

THIS RUBBER PLANT

INDUSTRIES CO., INC.



ROOM 3001
No. 1

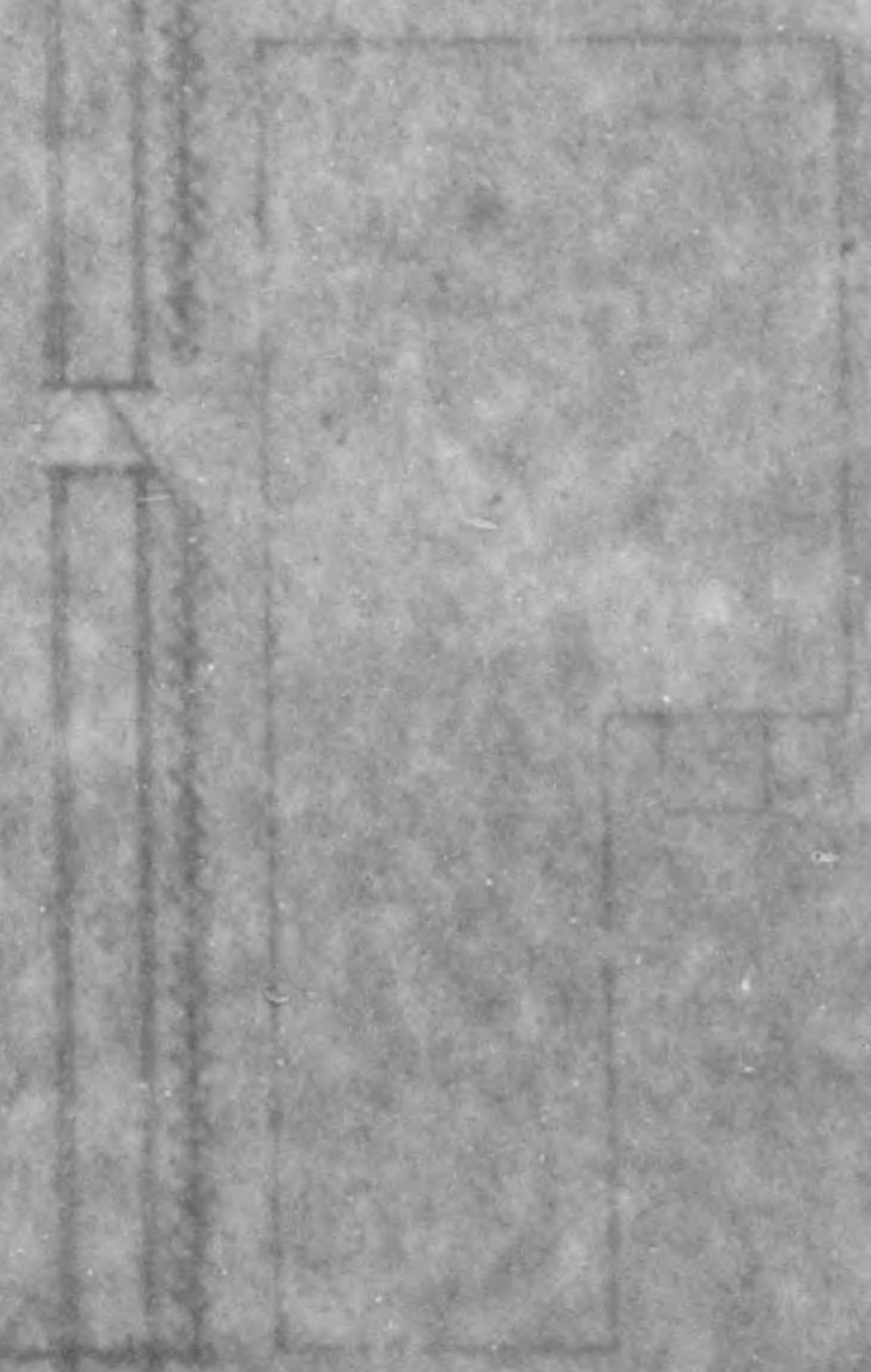
ACETYLENE PURIFIER

SYNTHESIZING
PLANT

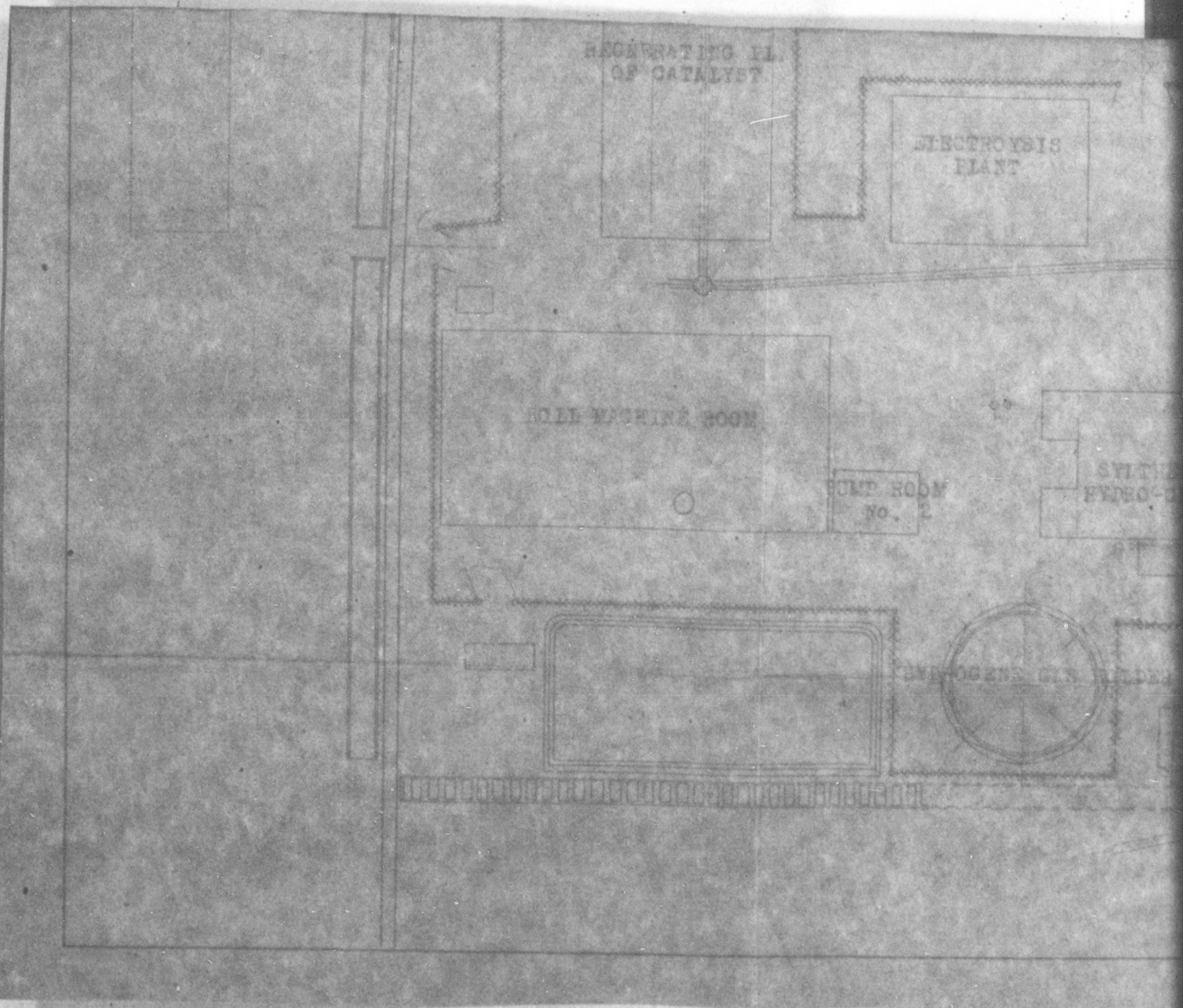
ACETYLENE GAS HOLDER



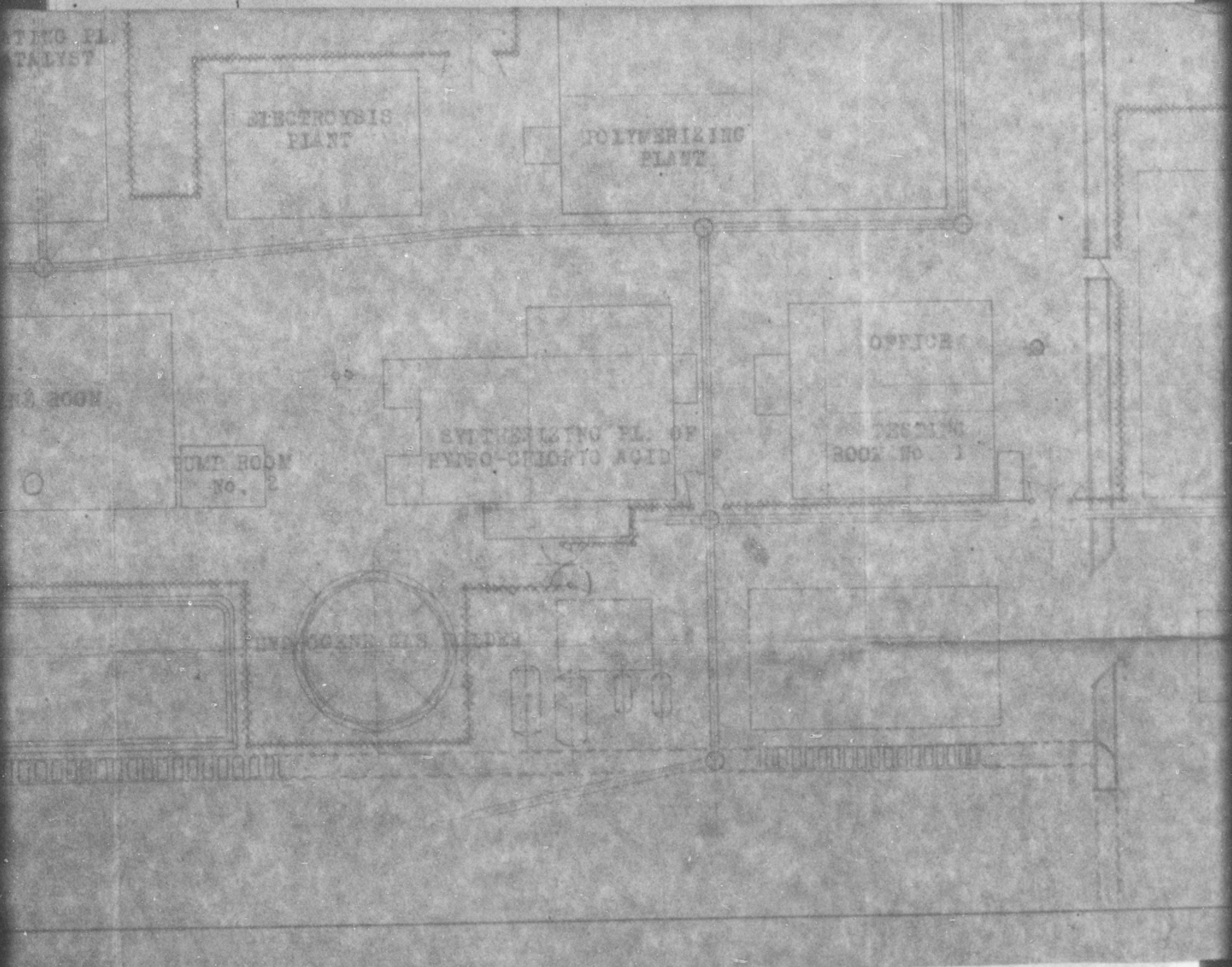
OFFICE
DRESSING
ROOM NO. 1



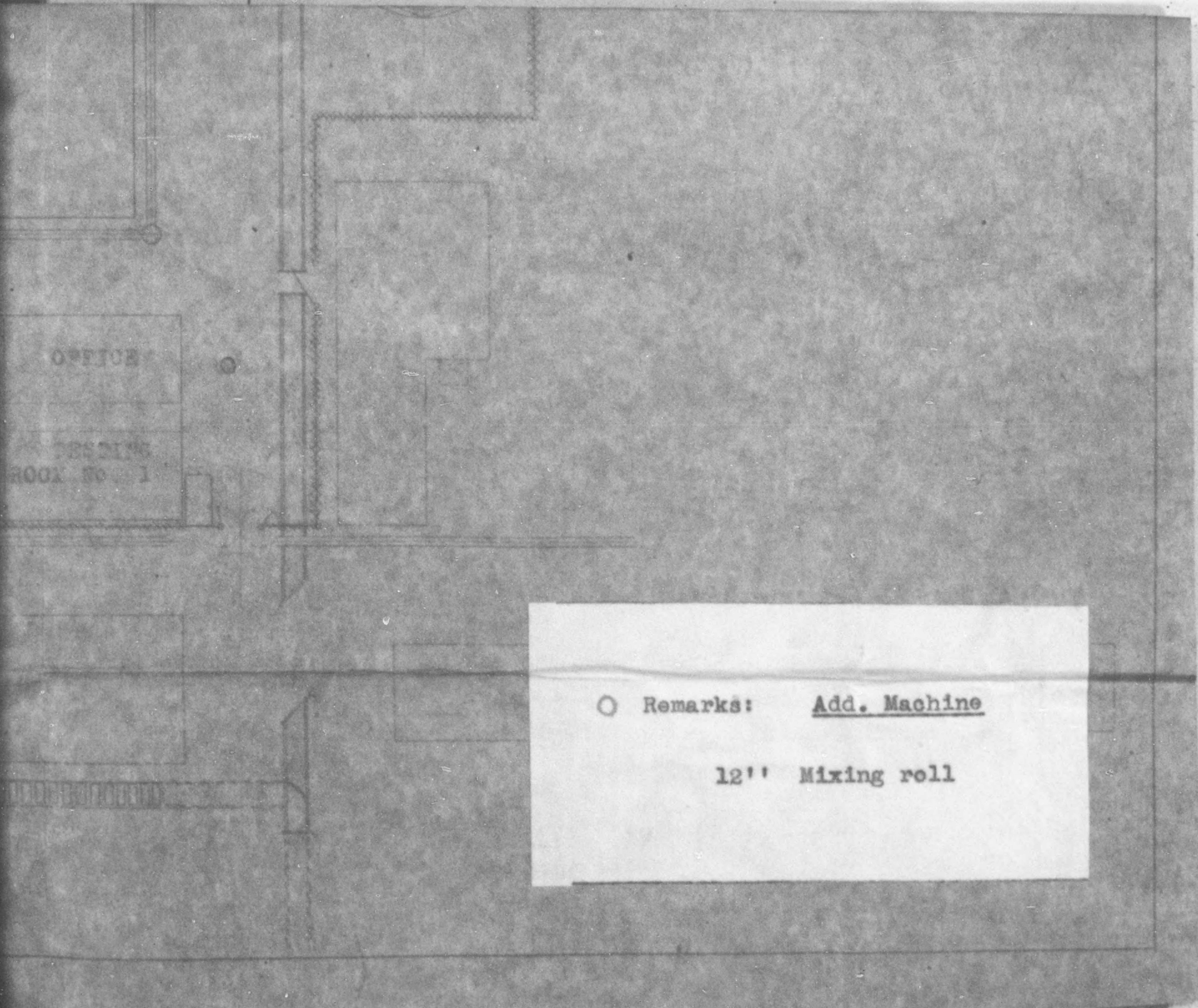
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○ Remarks: Add. Machine

12'' Mixing roll

775 013

REPARATIONS BOARD
TOKYO

TO : GENERAL HEADQUARTERS, SUPREME COMMANDER
FOR THE ALLIED POWERS.

FROM : Reparations Board, Tokyo.

SUBJECT: Supplementary Application for Conversion of Uotsu
Factory, Nippon Carbide Industry Co., Ltd.

R.B. No. 32 (M.S.)

8 March 1949

1. Reference:
 - a) SCAP Memorandum AG 004 (22 Nov. 46) ESS/IN (SCAPIN-1355), subject: "Permits for Conversion and Reconversion of Industrial Plants."
 - b) SCAP Memorandum AG 387.6 (17 Oct. 46) ESS/IN (SCAPIN-1277), subject: "Reparations Selections within Synthetic Rubber Industry."

2. The Reparations Board submits to your Headquarters a supplementary application for conversion of the Uotsu Factory, Nippon Carbide Industry Co., Ltd. for the production of vinyl chloride, together with a recommendation of the Ministry of Commerce and Industry, as enclosed herewith.

3. The subject plant has been engaged heretofore in the production of sulphanyl guanidine, belfenin acetanilide, aspirin, rubber high boots, etc. with the operation permission of the Allied Authorities. As the proposed production is intended to be carried out by utilizing only a part of the equipments already granted authorization for temporary use, it will not affect the custody and maintenance of reparations facilities in any sense.

4. As stated in detail in the attached letter of Toyama Military Government Team and the recommendation of the Japanese Government, the vinyl chloride is urgently needed in Japan today because of its scarcity and it will greatly contribute to the recovery of national economy. Therefore, the Japanese Government would be very much obliged if your Headquarters be good enough to give a most favorable consideration to this application.

FOR THE DIRECTOR-GENERAL:

(H. Shimadzu)
Deputy Director General
Reparations Board

775 013

Enclosure:

- 1) Recommendation of the Ministry of Commerce and Industry.
- 2) Application of the subject plant.
- 3) Letter of Toyama MG.

February 3, 1949.

No.24 Sobai 161

TO : General Headquarters,
Supreme Commander for the Allied Powers.

FROM : Chief, Reparation Enforcement Division,
General Affairs Bureau,
Ministry of Commerce and Industry.

SUBJECT : Request for Permission to Make Additional
Conversion of the Use of Equipment of the
Uotsu Factory of the Nippon Carbide Industry
Co.,Ltd., (Nippon Carbide Kogyo K.K.).

- 1) Name of Plant: The Uotsu Factory of the Nippon Carbide Industry Co.,Ltd.
(Nippon Carbide Kogyo K.K.).
- 2) Location of Plant: No.751, Honshin, Michishita-mura, Shimoarekawa-gun, Toyama Prefecture.
- 3) Name of Products Planned: Vinyl Chloride.
- 4) The Reasons for Submitting this Application:
 - (a) Nature of Conversion.

This factory is a synthetic rubber plant designated for reparation. Since the conversion of work was granted on January 31, 1947, the factory was engaged until today in the production of Sulphanil Guanidine, Belfenin Acetanilide, Aspirin, Rubber High Boots, etc., and now the factory is submitting this application to add an item, Vinyl Chloride, to the items of converted work.

- 2 -

- (b) Scope of Change of the Form and Substance of Equipment.

No change will be made as only the machines, mentioned in the sheet attached to the company's applications as to be used for making Vinyl Chloride, will be used.

- (c) It is Impossible to Use as a Substitute the Equipment not Subjected to Reparation.

At present Vinyl Chloride is manufactured in our country only by the Shonan Factory of the Tokyo Shibaura Electricity Co., Ltd. The factory of this application is quite reliable in technics and ability, and at present we cannot find another factory, which will be able to take its place.

- (d) The above Mentioned Product is Essentially Necessary for the Reconstruction of Japanese Economy.

In our country, Vinyl Chloride is produced in an extremely scarce quantity at present. As mentioned in item (c), the only manufacturer is the Shonan Factory of the Tokyo Shibaura Electricity Co., Ltd., whose nominal monthly capacity of production is only 5 metric tons. The Government's production program for 1949 is 200 metric tons, against which the quantity of demand is estimated at about 1,000 metric tons. The annual capacity of the already existing maker is about 20 metric tons, and the actual result of production in the past one year was 9 metric tons. In order to meet such a situation, the Government endeavored to establish

- 3 -

counter measures, and in the so-called Economic Reconstruction Five Year Plan, the Government intends to secure the production of 3,000 metric tons in a year.

In our country, the production of Vinyl Chloride began in 1940 or thereabout. It is known as a principal material of synthetic resin. As it is strong in acid-proof and alkali-proof nature, it is used in industries mainly as electricity insulating material, on electricity distributing wires of rayon factories, as electrolysis diaphragm, in making gloves and aprons for industrial use, etc., and raincoat for fishers which is indispensable for fishing.

In this factory, intermediate experiments were made on the manufacture of Vinyl Acetate and Vinyl Chloride, and the stage of researches has already passed. In the chemical techniques, the factory has special faculties in reaction appliances and other respects, and the factory is expected to achieve higher efficiency than other companies.

(e) Period of Use of the Equipment.

It is desired that the use of equipment may be made from the day on which the permit is granted until the equipment designated for reparation is taken away.

(f) Plan of Continuing the Production after the Equipment is Taken Away.

- 4 -

It is expected the production will be continued by gradually supplementing equipment getting supply from other factories.

From the above reasons, we request you to pay special considerations to the above application and see your way to grant permission as soon as possible.

For the Minister,

M. Takahashi

Chief, Reparation Enforcement

Division, General Affairs Bureau,

Ministry of Commerce and Industry.

Ya/tn

775 013

JJE/ri

HEADQUARTERS TOYAMA MILITARY GOVERNMENT TEAM
APO 301, US Army*JJE*
French
5 ~~January~~ 1949

004

SUBJECT: Manufacture of Vinyl Chloride

TO : Whom it May Concern

1. Reference: The letter of Toyama Military Government Team, dated on 20th Nov., 1946, subject: Continuation of Operation of Nippon Carbide Industries Co., Inc.
2. The application to produce Vinyl Chloride by the Nippon Carbide Co., Uozu Plant, to be used in the manufacturing of synthetic resin appears to this headquarters to be a legitimate enterprise.
3. It has been stated by the engineers of this plant, that at the present time they have sufficient equipment to manufacture this product. The officials of this company also state that synthetic resin is used in the manufacturing of rain coats. Rain coats are in such need in Japan today, especially among fishermen and other workers who are exposed to the weather. Therefore this headquarters believes that the economy of Japan would be benefited by making available material for the manufacturing of such needed rain coats, but would also furnish employment for a number of workers in the manufacturing of this product.

FOR THE COMMANDING OFFICER:

TEMPLE S. RYLAND
Major, PA
Quartermaster Officer

To : Minister of Commerce and Industry Shinzo Oya
From : Superintendent Keitaro Kawamichi
Uozu Works, Nippon Carbide Industries Co., Inc.
Address : 751 Motoshin, Michishita-mura,
Shimonikawa-gun, Toyama pref.
Date : Nov. 30, 1948

Subject: Supplement-ary Application of Product to conversion
permit by designated reparation plant

1. Company Name:
Uozu Works, Nippon Carbide Industries Co., Inc.
2. Location:
751 Motoshin, Michishita-mura, Shimonikawa-gun,
Toyama pref.
3. Product whose mft Planned: Vinyl chloride
4. Equipment: Ref: Attached list
5. Mfg experience: Mfg process is now in the course of an
interim test; however, as soon as
approval is obtained, its industrial-
ization is at once to be started.
6. Product between 1939-1945: Synthetic rubber
7. Production scheduled during period of
application pending:
30 tons per month
8. Period during which equipment used:
Until reparations equipment and facilities are
removed
9. Whether or not the plant is movable after reparations
removal:
Movable and planned to be moved into the
Synthetic Benzene plant.
(Ref: Attached arrangement)
10. Change of equipment and facilities:
No change necessitated; used as they are now.
11. Estimated expenditures required for conversion or
re-conversion:
Some ¥ 7000,000 for addition of equipment

12. Where the product is to be forwarded:

- a. Nippon Bakelite Kabushiki Kaisha
(Japan Bakelite Co., Inc.)
- b. Nippon Kakozaï Kogyo Kabushiki Kaisha
(Japan Chemical Material Indust. Co., Inc.)
- c. etc.

13. Reasons:

Vinyl chloride is a major raw material of synthetic resin. The production goal of vinyl chloride, according to the Economic Rehabilitation Five Years plan worked out by the Ministry of Commerce and Industry and the Economic Stabilization Board, is 3,000 tons per year, which shows how important the above product is, in view of the current situation of Japan aiming to be a cultural and democratized nation. Already our interim test of vinyl acetate and vinyl chloride mfg process have started, and it has been proved fit for industrialization. The originality of its chemical technical side and the reaction apparatus is outstanding, and a higher productive efficiency than other companys' is expected. By the utilization of part of the reparations equip. the process above is expected to be smoothly industrialized with less expenditures and in less time than otherwise. And the result will be so much and so speedy contribution for the reconstruction of Japan's Industry and Economy.

I beg your officials concerned to take the above into consideration and to grant approval to the temporary use of the reparations equipment until reparations removal

- Reference: 1. Nov. 20, 1946 Authorization of
Conversion and Operation Continuance
2. Works arrangement

Superintendent: Keitaro Kanemichi
Signature

775 013

C O P Y

HEADQUARTERS

TOYAMA MILITARY GOVERNMENT TEAM

November 20, 1946

SUBJECT: Continuation of Operation of Nippon
Carbide Industries Co., Inc.

TO : Whom it may Concern

The synthetic rubber plant of the Nippon Carbide Industries Co., Inc. is authorized to continue production of rubber boots, aspirin, acetanilid, benzyl acetophenyl thiocarbide, and Paminophenyl sulfanilyl guanidine by 4th indorsement from SCAP on subject application. Continued operation of this plant is authorized by the 6th indorsement from I Corps on subject application.

FOR THE COMMANDING OFFICER:

KENNETH R. SPEAS
Capt., PA
Adjutant

LIST OF MACHINES FOR MFG VINYL CHLORIDE

Uozu Works, Nippon Carbide
Industries Co., Inc.

(1) Ammonia Refrigerating Equipment

1 Unit 15" x 13" Ammonia Booster, Two Stage
Type Ammonia Compressor.

Required Total B.H.P. 450

Size of Machine

Low Pressure Cylinder 15" x 15"

High Pressure Cylinder 8" x 8"

Including:

Oil Separator, Inter Cooler

Accumulator & Main Motor

1 Unit Ammonia High Pressure Side Equipment

42" x 16'-0" Vertical Shell & Tube
Condenser,

27" x 12'-0" Liquid Receiver & Purge
Drum.

1 Unit Brine Cooling Equipment

Horizontal Shell & Tube Brine cooler,
Accumulator, 8'3" x 10'-0" Cylindrical
Type

Brine Storage Tube & 7.5HP Brine
circulating Pump

1 Unit Electrical Equipment

Powel, 300 KVA Transformer & Equipment


(2) 1 Unit Synthetic Acid Chloride Equipments.

(3) 1 Unit Water-electrolysis Equipments.

775 013

Reparations Plant Buildings Layout

Acetylene purifying plant.

 : Where view

pump room No.1

Synthesizing plant.

Office and Test

Polymerizing plant

Refrigerating plant.

Synthesizing plant of

Electrolysis plant.

Pump room

Regenerating plant of catalyst.

Boiler room

Roll machi

Reparations Plant Buildings Layout

Purifying plant.



: Where vinyl chloride is manufactured

Synthesizing plant.

Office and Testing room

Polymerizing plant

Refrigerating plant.

Synthesizing plant of Hydro-chloric acid.

Hydrogen Gas Holder

Electrolysis plant.

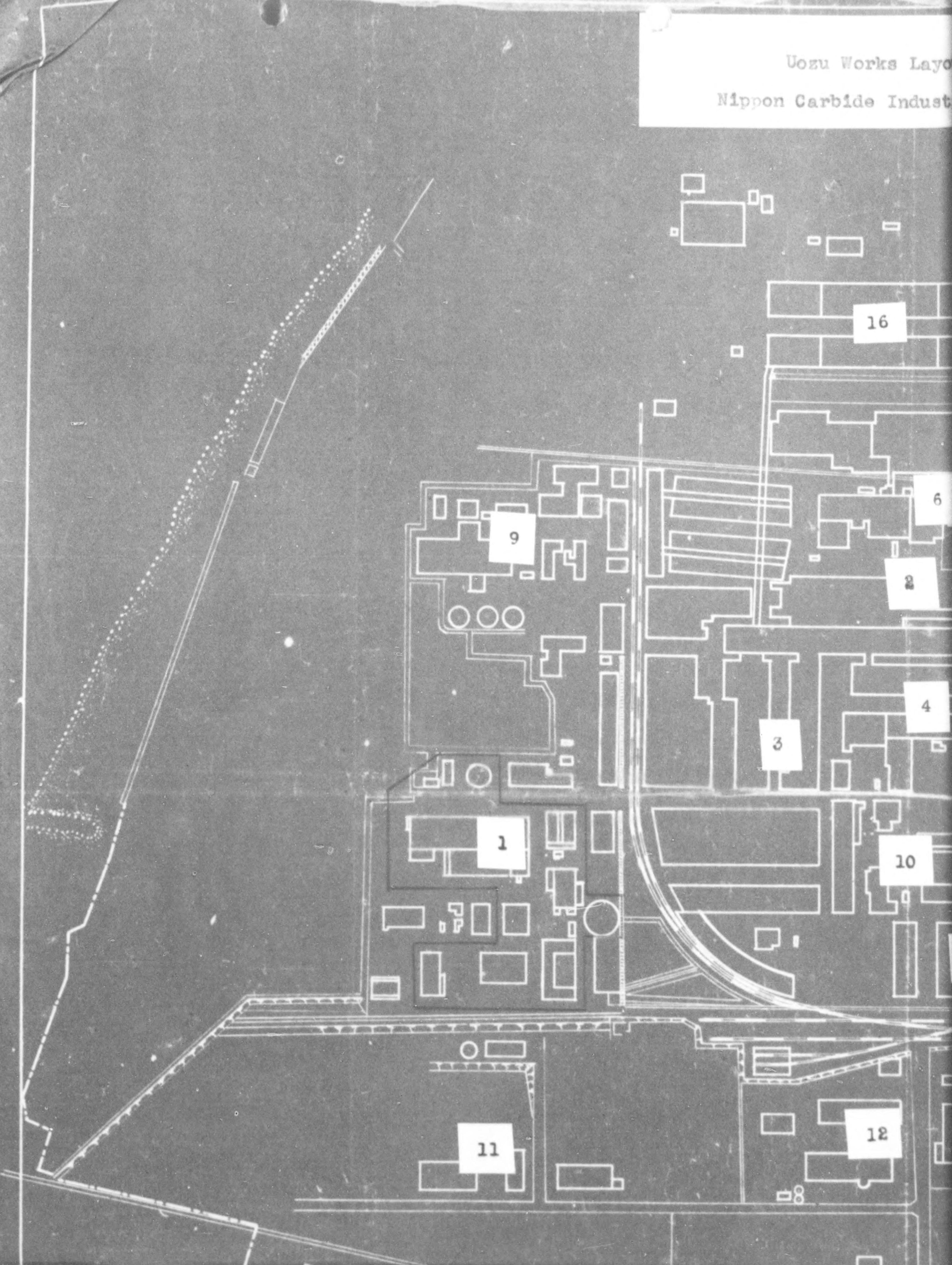
Pump room No. 2

Regenerating plant of catalyst.

Roll machine room

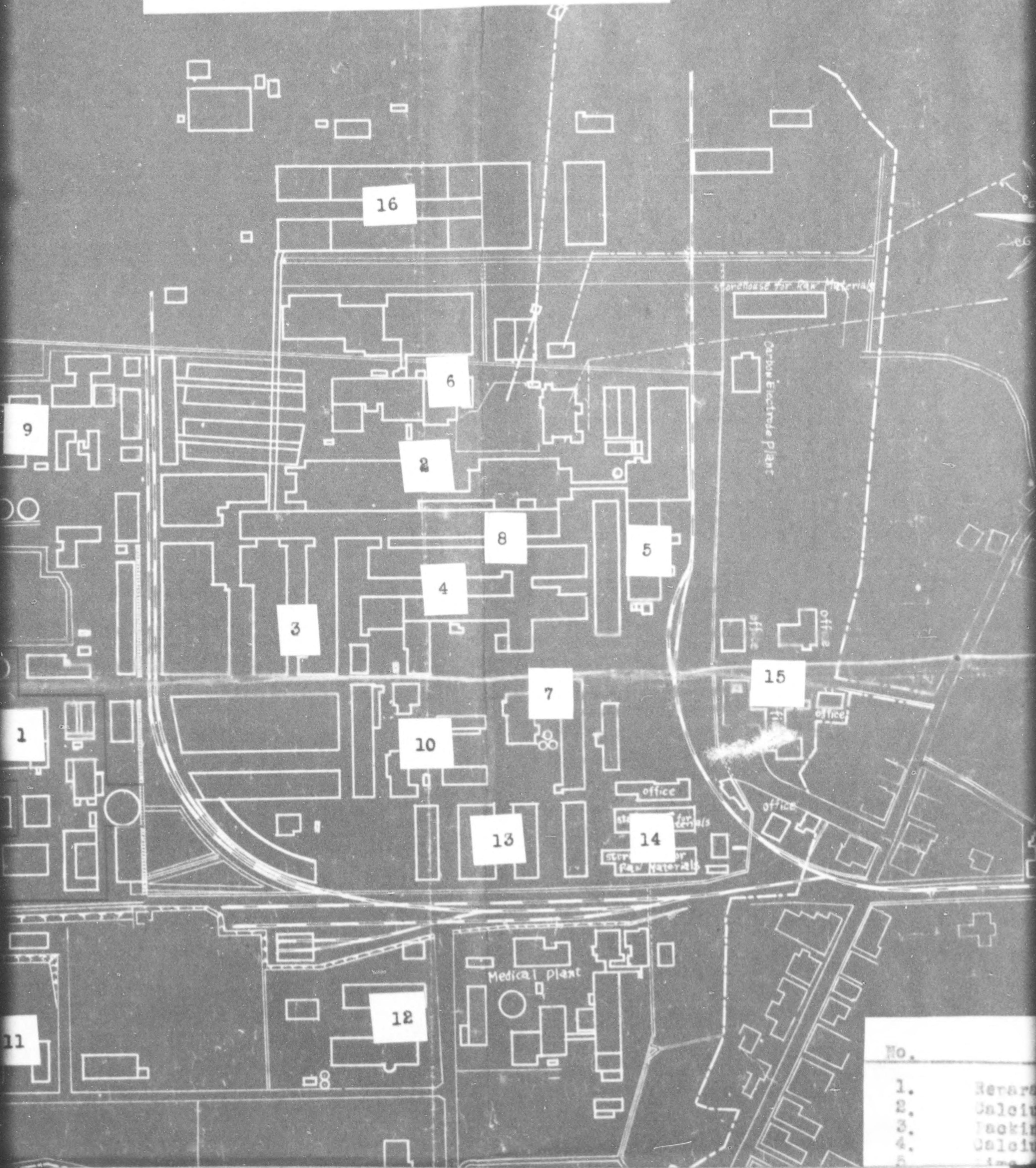
775 013

Uozu Works Layout
Nippon Carbide Industry



775 013

Uozu Works Layout
Nippon Carbide Industries Co., Inc.

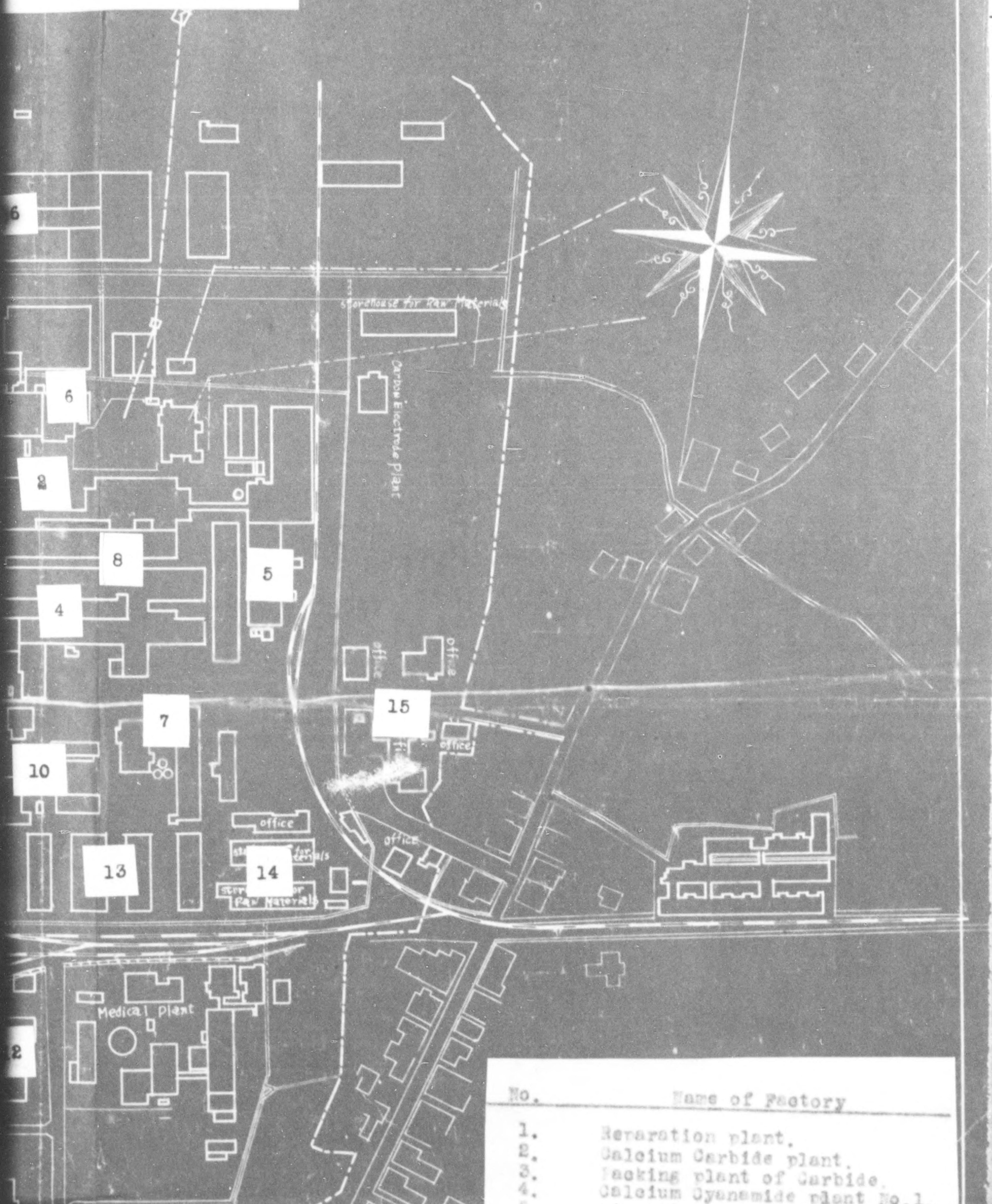


No.	
1.	Research
2.	Calcium
3.	Injection
4.	Calcium
5.	...

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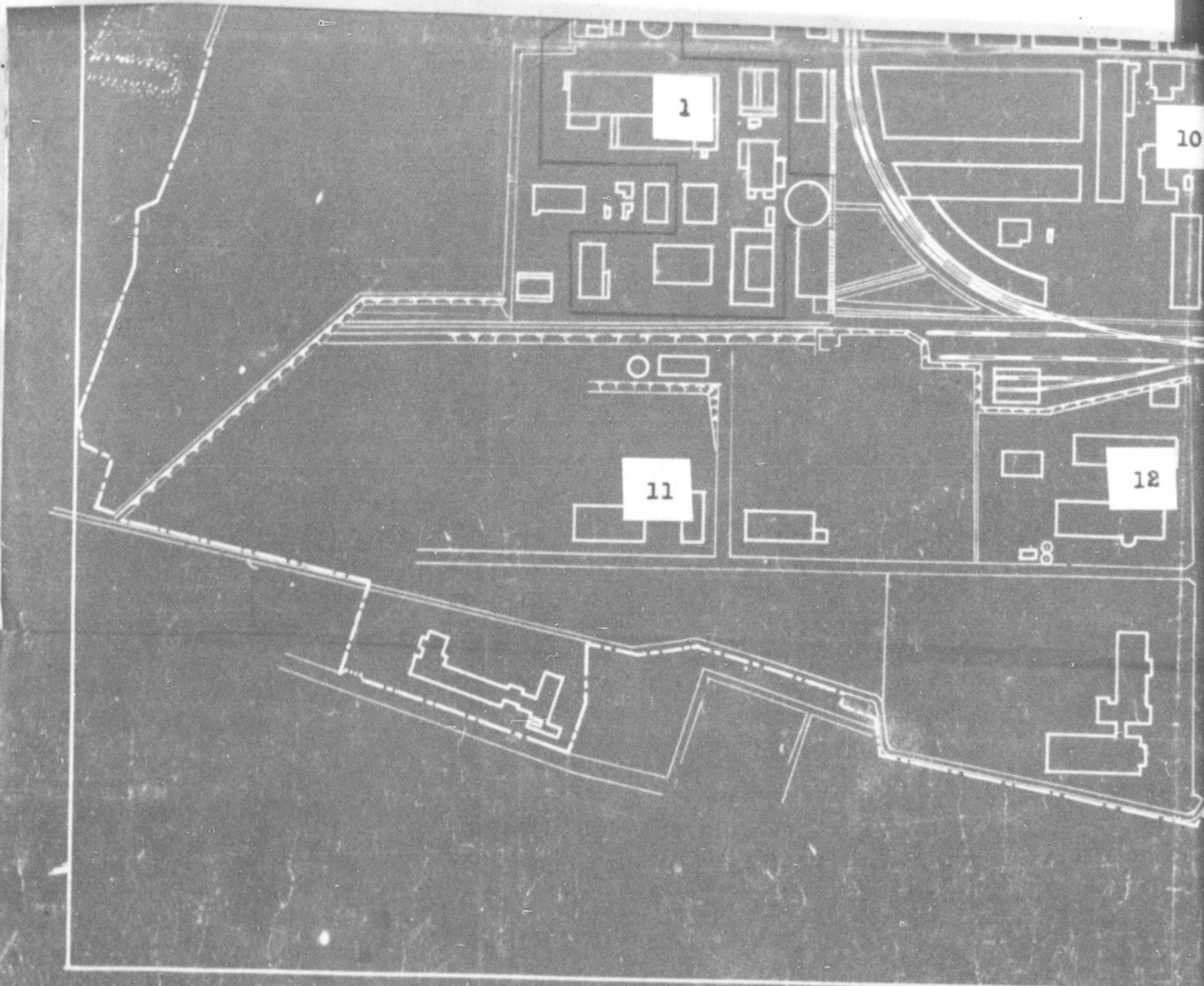
ks Layout

Industries Co., Inc.

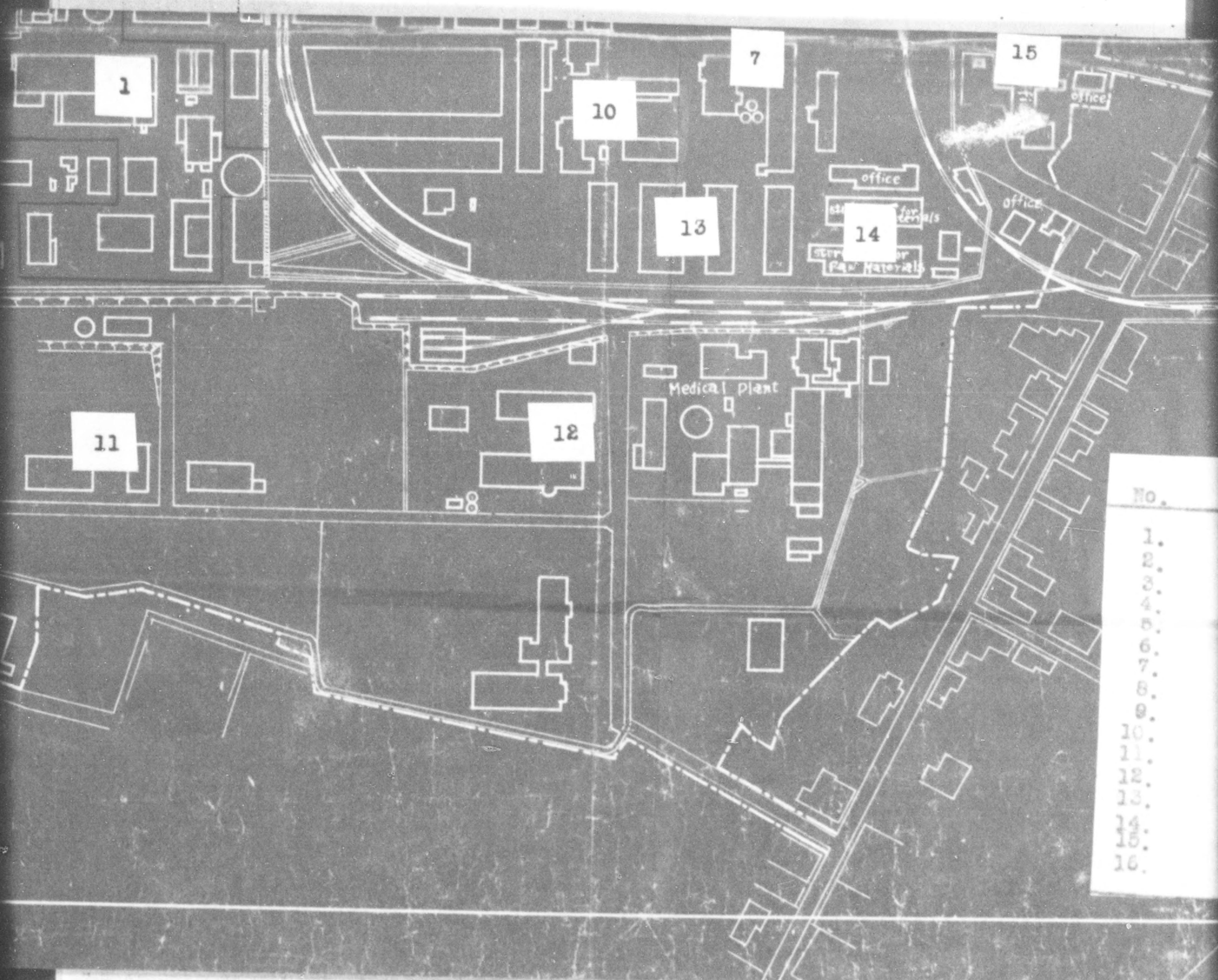


No.	Name of Factory
1.	Reparation plant.
2.	Calcium Carbide plant.
3.	Packing plant of Carbide.
4.	Calcium Cyanamide plant No.1.
5.	...

775 013

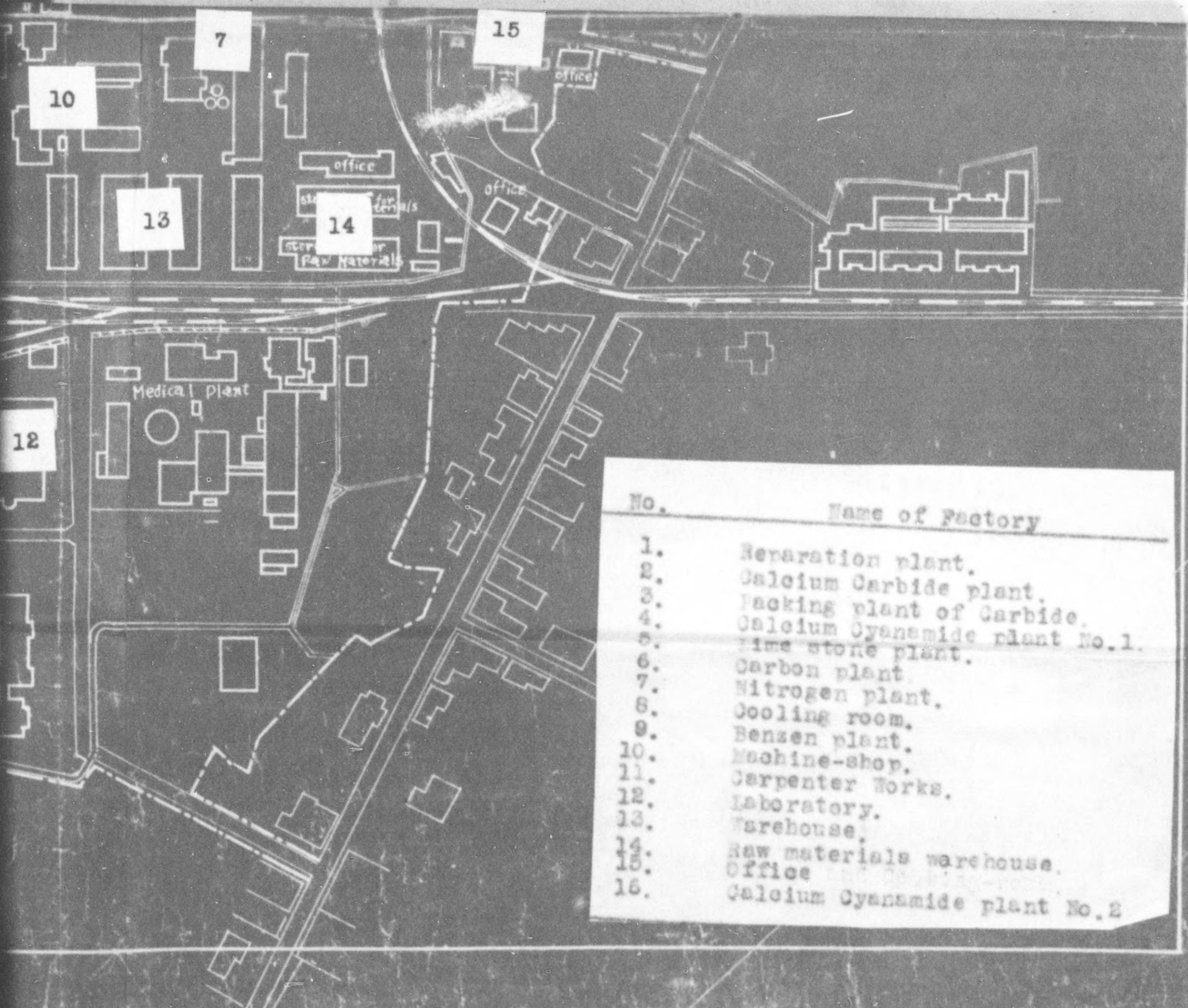


775 013



No.
1.
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16.

775 013



No.	Name of Factory
1.	Reparation plant.
2.	Calcium Carbide plant.
3.	Packing plant of Carbide.
4.	Calcium Cyanamide plant No.1.
5.	lime stone plant.
6.	Carbon plant.
7.	Nitrogen plant.
8.	Cooling room.
9.	Benzen plant.
10.	Machine-shop.
11.	Carpenter Works.
12.	Laboratory.
13.	Warehouse.
14.	Raw materials warehouse.
15.	Office
16.	Calcium Cyanamide plant No.2

775 013

File in Paper Carbide

JJB/ri

HEADQUARTERS TOYAMA MILITARY GOVERNMENT TEAM
APO 301, US Army*4 March 9/49*
5 January 1949

004

SUBJECT: Manufacture of Vinyl Chloride

TO : Whom it May Concern

1. Reference: The letter of Toyama Military Government Team, dated on 20th Nov., 1946, subject: Continuation of Operation of Nippon Carbide Industries Co., Inc.

2. The application to produce Vinyl Chloride by the Nippon Carbide Co., Uozu Plant, to be used in the manufacturing of synthetic resin appears to this headquarters to be a legitimate enterprise.

3. It has been stated by the engineers of this plant, that at the present time they have sufficient equipment to manufacture this product. The officials of this company also state that synthetic resin is used in the manufacturing of rain coats. Rain coats are in such need in Japan today, especially among fishermen and other workers who are exposed to the weather. Therefore this headquarters believes that the economy of Japan would be benefited by making available material for the manufacturing of such needed rain coats, but would also furnish employment for a number of workers in the manufacturing of this product.

FOR THE COMMANDING OFFICER:

THOMAS S. WYLAND
Major, FA
Reserve Officer

Date: 1, Feb. 1949

To : Commanding Officer of Toyama M. G. T.
Thru : Commerce and Industry Section,
Toyama Prefectural Office
From : Custodian Keitaro Kawamichi,
Uozu Works, Nippon Carbide Industries Co., Inc.
Address: 751 Motoshin, Michishita-mura,
Shimoniikawa-gun, Toyama pref.

Subject; Partial Change of Fence and Guard Box for Rep. plant.

A. Where partial change of fence and guard box are to
be carried out:

Denoted by a dotted red line in the attached arrange-
ment.

B. Where fence and guard box are located:

Synthetic Rubber plant, Uozu Works,
Nippon Carbide Industries Co., Inc.

Address; 751 Motoshin, Michishita-mura,
Shimoniikawa-gun, Toyama pref.

C. (1) Kind of Fence: bamboo; net work; size, not changed.

(2) Kind of Guard Box: Wooden; zinc-roofed;
floor area, 1 tsubo

D. Reason of Application:

The fence built around the whole reparation plant is
desired to be partially changed by us, together with
the guard box, as per denoted in the attached arrange-
ment, in order to prolong a part of siding.

--- (2) ---

I hereby am to certify that the said change does not prevent us from the strict observance of preservation duties of duties of the reparation equipment and facilities

For Custodian S. Takemura
Keitaro Kawamichi

Chief of General Affairs Dept.

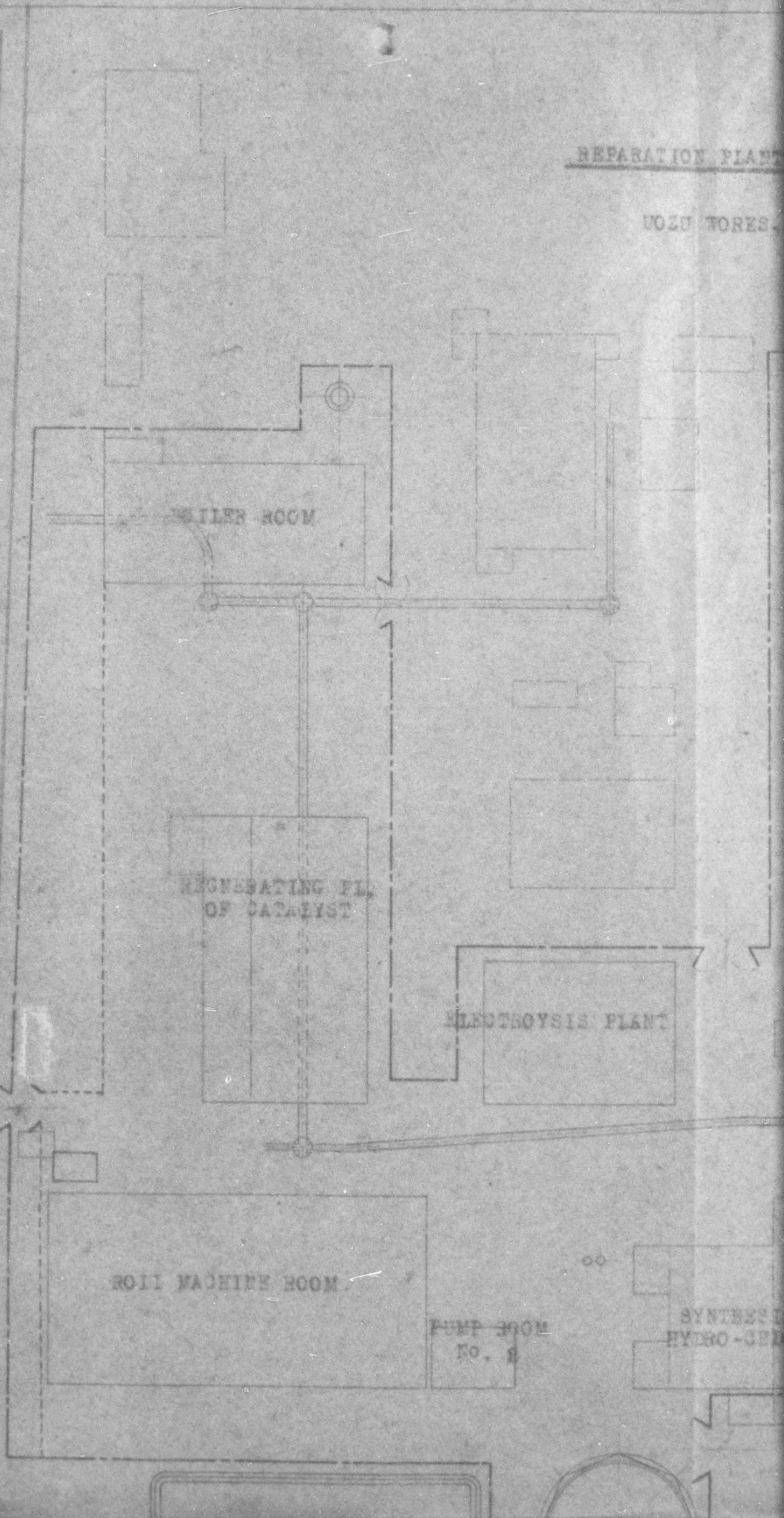
Approved
auth op 21 2 Feb. 49
T.S.R.

J.L.

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REPARATION PLANT

UOZU TONES

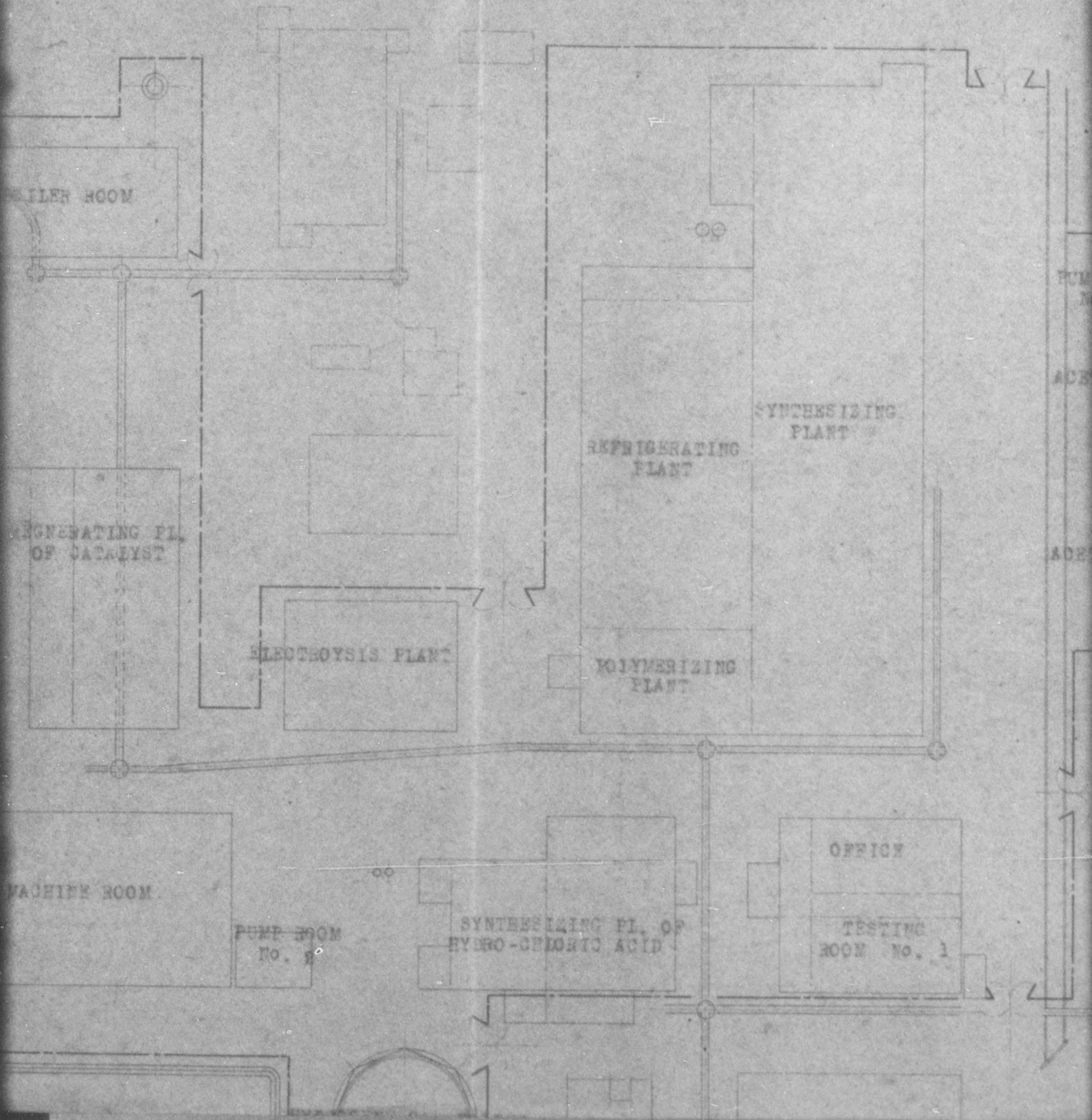


SYNTHESIS
HYDRO-GEN

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REPARATION PLANT LAYOUT (SYNTHETIC RUBBER PLANT).

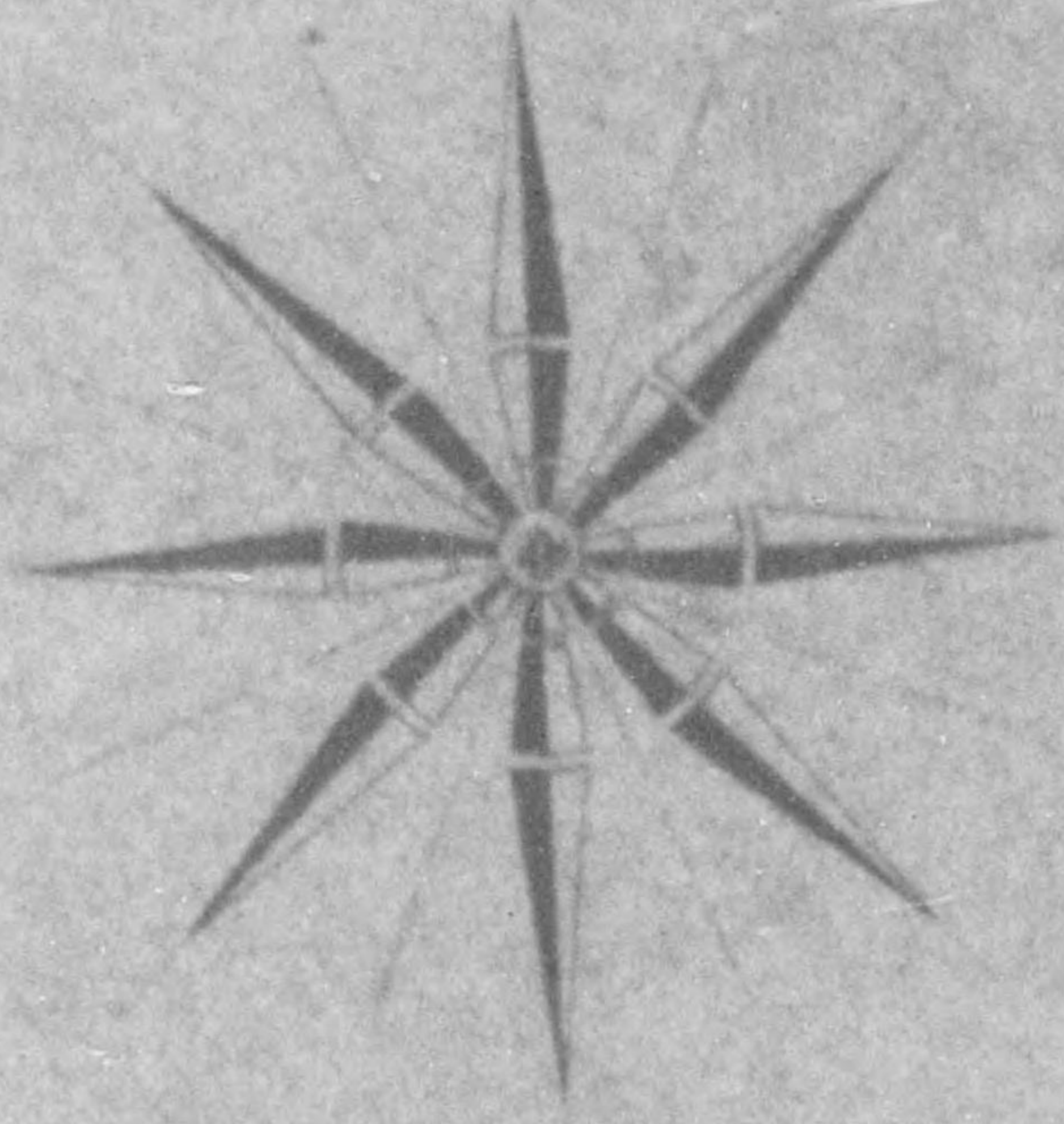
UOZU TORRES, NIPPON CARBIDE INDUSTRIES CO., INC.



775 013

RUBBER PLANT)

INDUSTRIES CO., INC.



PUMP ROOM
No. 1

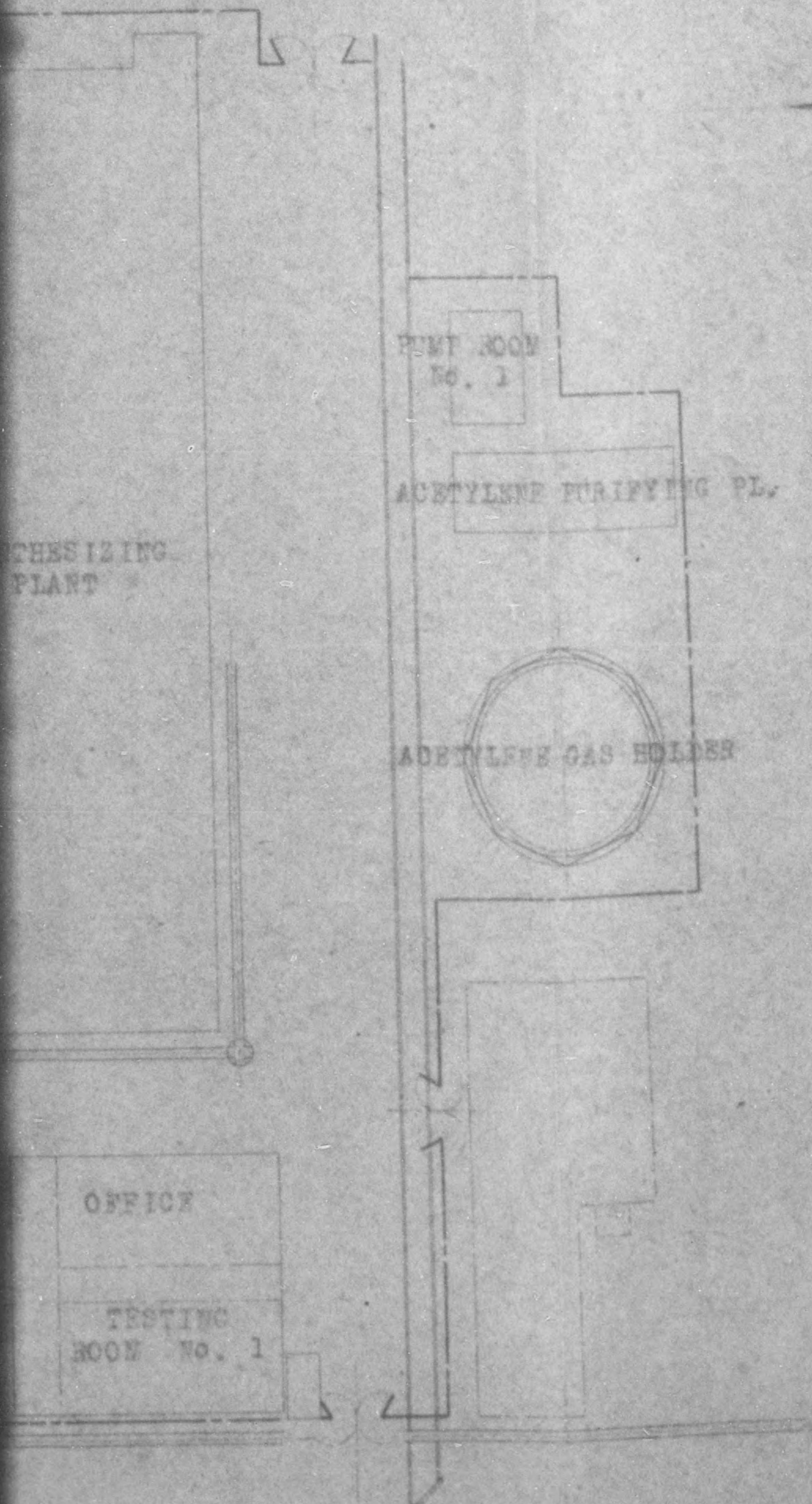
ACETYLENE PURIFYING PL.

SYNTHESIZING
PLANT

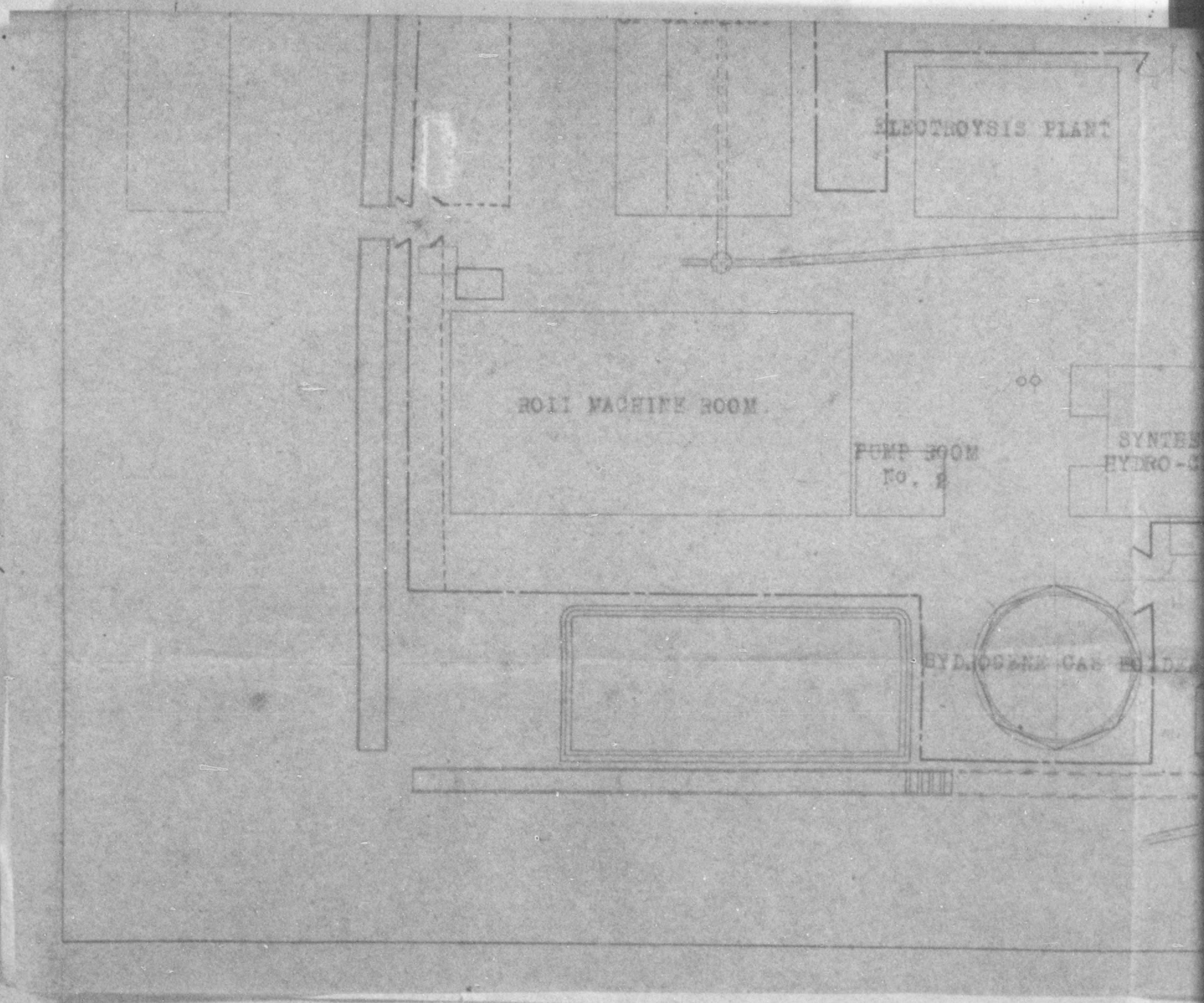
ACETYLENE GAS HOLDER

OFFICE

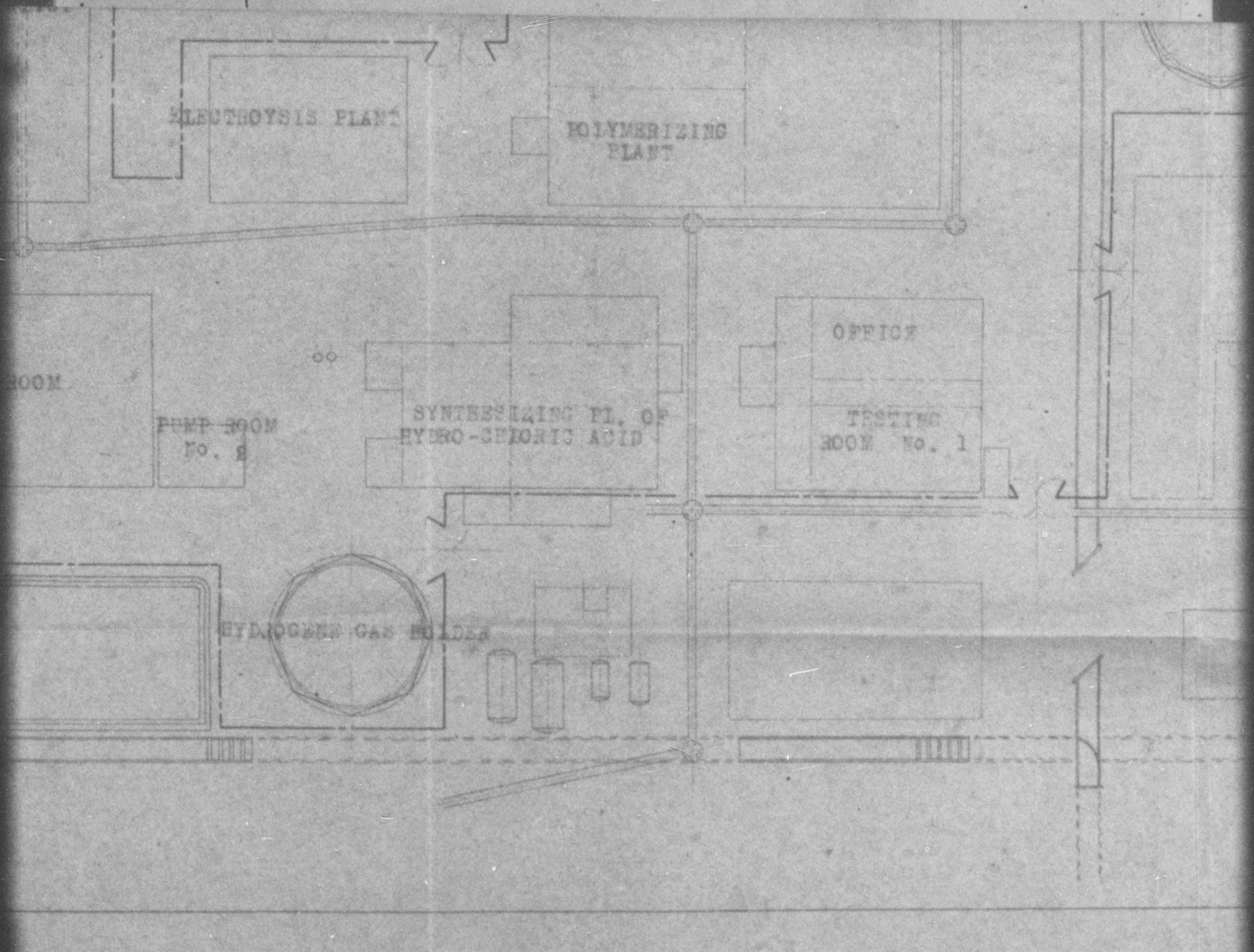
TESTING
ROOM No. 1



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