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

riacn	Dia 50 m/m Lead 20 m	1941	4		4		
lindir	Dia 50 m/m work p 2 Kg/m/m²	"	1		1		
ane e	1730 R/M 2 KW	"	2		2		
te	420-1715 R.P.M SP	"	6		6		
r	Dia 40 m/m Lead 2 m	"	6		6		
el ine	7.5KW 1750 R/M	1942	1		1		
" uble	1730 R/M 3.7KW	1940	2		2		
ed ind	" 3KW	"	5		5		
"	" 5KW	"	3		3		
ziron l zon	" 200 l/m	1942	1		1		
l zon	5 H.P.	1941	3		3		
ed	VAC 370 m/m	1939	2		2		
Aziron ine	Zon l/m	1942	1		1		
l zon	"	1941	2		2		
ikon CT	2KW	1939	2		2		
" ine	5 H.P.	1942	1		1		
	5 H.P.	1	1		1		
	3 H.P.	"	1		1		
	3KW	"	2		2		
"	Zon	1941	1		1		

> Bulldog #237

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 715 013

Switch box	"Hirosawa"	7.5 KW	1940
"	"Tokyo"	5 KVA	1942
"	"	20 KW	"
"	"	5 KW	"
"	"Harada"	30 "	1940
"	"Nibeon"	60 A	1941
"	"	30 "	"
"	"Tachiwo"	15 "	1939
	"	10 "	"
	"	50 "	"
	"	30 "	"
	"	60 "	"
	"	100 "	"
	"	25 "	"
	"	20 "	"
Oil Switch	"Tagami"	100 "	1936
Transformer	Single phase 60~	3300/220 V 10 KVA	1938
"	"	220-110/220-110 1 KVA	"
"	"	3300/220-110 5 KVA	1937
"	3 phase	50 KVA	1935

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ure	7.5 KW	1940	3		3			
"	5 KW	1942	1		1			
	20 KW	"	1		1			
	5 KW	"	1		1			
e "	30 "	1944	1		1			
"	60 A	1941	6		6			
	30 "	"	5		5			
uo"	15 "	1939	1		1			
	10 "	"	1		1			
	50 "	"	5		5			
	30 "	"	7		7			
	60 "	"	3		3			
	110 "	"	1		1			
	25 "	"	2		2			
	20 "	"	2		2			
"	100 "	1936	13		13			
60	3.300/220 V 10 KVA	1938	6		6			
220	220-110/220-110 1 KVA	"	4		4			
	3300/220-110 5 KVA	1937	4		4			
ure	150 KVA	1935	2		2			

Building #237

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 715 013

Blower	cn — ali	220 MP/mn	1941
Pump	Verticale fünfer		1940
Dutch boat		1 hp	1941
"		10 hp	"
Water	Parsach type cpl-8 D 3/4		1940
Centrifugal Pump	motor driven Di 40 3 hp		1942
"	Dia 40 / 120 m	120 m³/mn	1942
"	Dia 60/120 m	"	1941
"	Dia 60 cc		1940
"	Dia 120/320 m	90 m³/m	1941
Motor	"Chio" 3 phase closed rid 1445 2 PM 20 W 220 V		1939
motor	3 phase Liegi vent. 800 RPM 220 V 20 KW		1942
"	"m" 3 phase closed cover 1740 RPM 220 V 5 KW		1942
"	"Chio" 3 phase pipe vent 220 V 30 KW		1941
"	"Chio" closed double cover 1800 RPM 220 V 7.5 KW		1940
Electric cent Pump	4 100	2 M³/m	1941
"	cv-ni 1740 RPM 100 40		1941
Centrifugal Pump	Dia 3		1943

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 715 013

li	220 MP/on	1941	2		2			
Linden		1940	1		1			
	1 hp	1941	2		2			
	10 hp	"	1		1			
te								
1		1940	5		5			1
en								
		1942	10		10			
120 Pi	120 M3/on	1942	1		1			
12 on	"	1941	1		1			
c		1940	1		1			
180 on	90 m3/m	1941	1		1			
id	1445 RPM 20 W 220 V	1939	2		2			
ge	800 RPM 220 V 20 KW	1942	1		1			
Speed	1740 RPM							
ed	220 V 5 KW	1942	2					
ee								
k	220 V 30 KW	1941	3		3			
ed	800 RPM							
el	220 V 7.5 KW	1940	1		1			
	2 M3/m	1941	1		1			
0 RPM		1941	1		1			
		1943	1		1			

Building #63

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

Centrifugal pump	Cr-Ni Dia 50 H 20m 1730RPM		1943
Motor	Chuo Closed double cover	1200RPM 220V 10KW	1938
Vacuum pump	Dia 50 ariron Nash type	380 m³/m	1941
Gasoline engine	V type 8 cylinder		1943
Motor	"Y. E"	50 HP	1916
"	"Akumura"		1923
"	Fuji open 3phase	580RPM 3300V 56 KW	1939
Centrifugal pump	with motor Dia 40 H 20 Cr-Ni		1941
"	"Azuma"	240 l/m	"
Gasoline engine	"Tobata"	7.5 HP	1904
Motor	Mitsubishi open	Φ65 RPM 220V 30KW	1930
"	Chuo closed ind. 3phase	1800 RPM 7.5 KW	1923
"	"	1730 RPM 220V	1941
Motor with red gear	Chuo 3phase ind open	1160RPM Ratio 1/55 KW	"
Reduction gear	"Sasaki"	1740RPM 10KW Ratio 1/12	"
Motor	Ritsagaku closed 3phase ind	1725 RPM 3 KW	"
Reduction gear	H.S. 1740 RPM L.S. 270RPM 2 KW		1937
Motor	Chuo closed vent	1720 RPM 3.75 KW	1940

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

o RPM		1943	1		1			
sed er	1200RPM 220V 10KW	1938	1		1			
ron e	380 m³/m	1941	2		2			
der		1943	1		1			
	50 HP	1916		1	1			
a"		1923	1		1			
r sc	580RPM 3300V 56 KW	1939	1		1			
-Ni		1941	6		6			
"	240 ℓ/m	"	1		1			Building # 463
"	7.5 HP	1904	1		1			
ri	Ø65 R.P.M 220V 30KW	1930	1		1			
ed se	1800 RPM 7.5 KW	1923	1		1			
	1730 RPM 220V	1941	1		1			
ase r	1160RPM Ratio 1/55 KW	"	4		4			
"	1740RPM 10KW Ratio 1/12	"	4		4			
ased nd	1725 RPM 3 KW	"	2		2			
PM 12 KW		1939	3		3			
ed	1720 RPM 3.75 KW	1940	4		4			

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Motor	Chuo. closed. Ver	[illegible]	[illegible]
"	Chuo. closed	double cover, 1170RPM [illegible]	1941
Red. gear		1740RPM 10 KW Ratio 1/20	1940
Motor	Chuo open 3phase ind	870RPM 220V 30KW	1941
"	Chuo close 3phrase ind	1745RPM 220V 3 KW	"
"	Chuo open 3phrase ind	870RPM 20KW	"
Centrifugal pump	3 steps Dia 40 m/m		1942
"	2 Steps Dia 40 m/m		"
"	Dia 3 inches		"
Red gear	H.S. 1800 RPM L.S.	150 RPM Ratio 1/12	1938
Motor	Chuo closed, Double cover 3phrase ind	1160 RPM 220V 20KW	1943
"	"	1740 RPM 220V 7.5KW	1942
"	"	1730 RPM 220V 5KW	"
"	"Yasukawa"	1755 RPM 7.5KW	1941
"	"Hitachi"	1400 1600 RPM 2HP	"
Air washer	"Kobayashi"		1944
gas filter	"Hand Made"	[illegible]	[illegible]
Screw press	Hand [illegible]	[illegible]	1930

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...ven	1725RPM 10KW	19[illegible]	2		3		
	double cover, 1170RPM Synchronous 10KW	1941	4		4		
	1740RPM 10 KW Ratio 1/20	1940	1		1		
	870RPM 220V 30KW	1941	2		2		
...d	1745RPM 220V 3 KW	"	1		1		
...el	870RPM 20KW	"	1		1		
...m/m 40		1944	3		3		
...m/m 40		"	3		3		
...hes		"	1		1		
...S.	150 RPM Ratio 1/12	1938	1		1		
...end	double cover 1160 RPM 220V 20 KW	1943	2		2		
	1740 RPM 220V 7.5 KW	1942	1		1		
	1730 RPM 220V 5 KW	"	1		1		
...2"	1755 RPM 7.5 KW	1941	2		2		
"	1400 1600 RPM 2 HP	"	2		2		
...d"		1944	2		2		
...2"			3		2		
...19 ...300	...CT... ...Ratio	1938	4		4		

Building #463

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

Water seperator	ordinary type 3mtr dia 540 m/m		1944
Transformer	3 phase 60 c	350 KVA	1936
Oil circuit breaker	"	"	"
Transformer	3 phase 60 c	3300/220V 50 KVA	1938
"	"	"	"
"	"	3300/220V 100 KVA	"
"	Single phase 60 c	" 50 KVA	1941
"	"	"	"
"	3 phase 60 c	" 50 KVA	"
"	"	"	1938
"	"	" 100 KVA	"
Switch box	"Nippon Denki"	" 100 KVA	1942
Oil switch	"Inoue"	" 300 KVA	1940
Synchronous condenser	3 phase 60 c	50 KVA	1941
Transformer	3 phase 60 c	200 KVA 220V 100 KVA	1941
Oil switch	"Inoue"	100 A	1938
"	"	300 A	1940
Centrifugal pump	with motor C.I. Dia 50 m/m		"
"	"		1942
"	with motor Cr-Ni Dia 40 m/m		"
"	" Nikkan "		1941
			1943

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440 3/m		1944	1		1			
0 C	350 KVA	1936	3		3			
	"	"	1		1			
3 C	3300/220V 50 KVA	1938	2		2			
	"	"	1		1			
	3300/220V 100 KVA	"	1		1			
2 C	" 50 KVA	1941	6		6			
	"	"	2		2			
3 C	" 50 KVA	"	5		5			
	"	1938	1		1			
	" 100 KVA	"	2		2			
2i"	" 100 KVA	1942	4		4			
	" 300 KVA	1940	3		3			
	50 KVA	1941	4					
0 C	200 KVA	1941	1					
2C 0 C	220V 100 KVA	1938	2		2			
"	100 K	1940	6		6			
	300A	"	6		6			
2 0 3/m		1942	2		2			
		"	1		1			
2 40 3/m		1941	1		1			
2		1943	1		1			

Callateral Plant Warehouse

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DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 715 013

Motor	"Yasukawa"	1720 RPM 22 KW	1942
Centrifugal pump	with motor cairon Dia 40 m/m		
Motor	"yasukawa"	1720 RPM 22 KW	1940
Centrifugal pump	with motor cairon Dia 40 m/m		
"	" " Dia 40 m/m		
"	" " Cr-Ni " "		1940
Motor	"yasukawa"	1720 RPM 15 KW	1942
"	"Nakajima"	1220 " 0.75 "	1940
"	"Chuo"	1755 " 20 HP	"
"	"	" KW	
	"	1720 " 2	1941
Reduction gear	"Sasaki"	H.S. 1200 R.P.M. L.S. 60 "	
Vacuum tank	M.S.	510×1300×310 m/m	1938
Reduction gear	"Sasaki"	H.S. 1200 R.P.M. L.S. 60 "	
Blower	Cr-Ni		1940
Feed pump	"Washington"		1911
Water seperator	Cage M.S Dia 1600 m/m		
"	" AL. " "		
"	" M.S. " "		
Nitrator	Centrifuge		
"	Cr-Ni Horizontal 1.2000×1.750×1.470 m/m		

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1720 RPM	22 KW	1942	1		1		
			2		2		
1720 RPM	22 KW	1942	1		1		
			2		2		
			2		2		
		1940	1		1		
1730 RPM	15 KW	1942	2		2		
1220 "	0.75 "	1940	1		1		Collateral Plant Warehouse
1755 "	20 HP	"	1		1		
1720 "	2 KW	1941	1		1		
H.S. 1200 R.P.M. L.S. 60 "			1		1		
510×1300×310 m/m		1938	1		1		
H.S. 1200 R.P.M. L.S. 60 "			2		2		
		1940	1		1		
		1911	2		2		
			1		1		
			2		2		
			1		1		Open ground
			1		1		

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Washer tanks	Cr-Ni Dia 1.500 m/m H 1.000 "	
Tanks	C.I. Dia 1.500 m/m H 2.500 "	
"	M.S. Dia 1.700 m/m H 1.900 "	
"	" 2600×1750×1470 m/m	
"	" Dia [illegible] m/m H 1.000 "	
"	A.L Dia 1.200 m/m H 1.000 "	
"	Cr-Ni Dia 750 m/m H 1.000 "	
"	" Dia 1.250 m/m L 3.000 "	
"	" Dia 1.250 m/m L 2.000 "	
"	" Dia 1.550 m/m H 1.000 "	

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m/m			/		/			
"			/		/			
m/m			/		/			
"			/		/			
m/m			/		/			
"			/		/			
m/m			/		/			
"			/		/			
m/m			/		/			
"			/		/			
m/m			/		/			
"			/		/			
m/m			/		/			
"			/		/			
m/m			2		2			
"								

open ground

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Absorption Ddam	cr-ni-steel	Dia 800 m/m H. 2300 m/m	1938	1
Saponification	mild steel	1 Ton 1 day out put	1934	1
Thomson nitrator	cr-ni-steel	dia 1600 m/m H. 350 "	1937	1
Centrifugal pump	cast iron	dia 4 inch	1938	1
Vacuume pump	nash Type	dia 75 m/m	1938	1
Tank	cr-ni-steel	dia 800 m/m H. 1070 "	1931	1
"	"	dia 1240 m/m H. 1000 "	"	1
"	mild steel	1470×1200×1500 m/m	"	1
Vacum dryer	cr-ni-steel		1939	1
Washing seperator	high-sp-castiron	dia 1450 m/m H 1530 "	1943	3
Steaming tank	cr-ni-steel	dia 1.600 m/m	1937	1
Drum (Horizontal)	mild steel	dia 960 m/m l 1680 m/m	1931	2
Kettle	cast iron	dia 370 m/m H 1000 "	"	"
Tank	cr	2700×1150×1540 m/m	1940	3
Nitrator	mild steel	2000×1000×1100 m/m	1931	1
"	hard steel	2520×1330×1380 m/m	1939	1
Water seperator	Cage Cu	dia 1200 m/m	1931	1
Drum (Horizontal)	hard steels	dia 650 m/m l. 1450	"	1

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Dia 800 m/m L 2.500 m/m	1938	1		1			
For 1 day out put	1934	1		1			with stirser
Dia 1.600 m/m L 350 "	1937	1		1			
Dia 4 inch.	1938	1		1			
Dia 75 m/m	1938	1		1			
Dia 800 m/m L 1070 "	1931	1		1			
Dia 1240 m/m L 1000 "	"	1		1			
m/m 1240×1200×1500	"	1		1			open ground
	1939	1		1			of the
Dia 1450 m/m Lon. 1530 "	1943	3		3			Collat " plast
Dia 1.600 m/m	1937	1		1		with stirrer	Explosive Zone
Dia 960 m/m L 1680 m/m	1931	2		2			
Dia 370 m/m L 1000 "	"	"		"			
m/m 1500×1150×1500	1940	3		3			
m/m 2000×1000×1100	1931	1		1			with stirrer
m/m 1520×1330×1380	1939	1		1			
Dia 1200 m/m	1931	1		1			
Dia 650 m/m L. 1450	"	1		1			

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Tank	mild steel	dia 1.870 m/m L 2.670 "	1942
motor		14 p 1750 R.P.M 30 p	1937
"	portable agritator	1492 S.P. m 0.7 K.W	"
Crystallizer	casiton-Cu lined	dia 2210 m/m H 910 "	1930
Steaming tank	Cr-Ni-Steel	dia 1600 m.m H. 2730 "	1937
Cent. fugal pumps	high-Sp-cast iron	dia 40 m/m 3.7 K.W	1939
"	"	dia 50 m/m 3.7 KW	"
"	Cr-Ni Cast steel	dia 40 m/m 2 K.W	"
Tank	wood	dia 2200 m/m H. 1.400 "	1934
"	pr (lead)	dia 1.600 m/m H. 1.600 "	"
"	Cr-Ni-Steel	dia 2.000 m/m H 2.000 "	"
"	"	dia 1.500 m/m H 1.230 "	1931
"	"	dia 900 m/m H 1.200	1940
Air cooler	"	dia 1.30 m H 1.300 "	1931
Nitrating fugle	"	dia 1.650 m/m H 1.850 "	"
Kettle	"	dia 2000 m/m H 1.850 "	"
Nitrator	"	dia 1.300 m/m H 1.900 "	"
"	"	dia 1.900 m/m H 2.300 "	"
"			

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

	dia 1.870 m/m L 2.670 "	1942	5		5			
	14 p. 1.750 p.m 30 p	1937	1		1			
	1492 8. p. m 0. 7 K.w	"	1		1			
tator	dia 2210 m/m						with	open ground
lined	H 910 "	1930		2	2		stirrer	of the
	dia 1600 m/m							Collat plant
	H. 2930 "	1937	1		1			(Explorivt)
	dia 40 m/m							zone
iron	3.7 K.W	1939	1		1			with
	dia 50 m/m							motor
	3.7 KW	"	1		1			
	dia 41 m/m							"
teel	2 K.W	"	1		1			
	dia 2000 m/m							
	H. 1.400 "	1934	7		7			Water Expl
	dia 1.600 m/m							dimalition
	H. 1.600 "	"	3		3			zone
	dia 2.000 m/m							
l	H 2.000 "	"	1		1			
	dia 1.500 m/m							
	H 1.230 "	1931	1		1			
	dia 900 m/m							
	H 1.200	1940	1		1			
	dia 1.30 m							
	H 1.300 "	1931	3		3			
	dia 1.650 m/m							Acid zone
	H 1.850 "	"	2		2			
	dia 2000 m/m							
	H 1.850 "	"	1		1			
	dia 1.300 m/m							
	H 1.900 "	"	1		1			
	dia 1900 m/m							
	H 2.300 "	"	4		4			

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Cooling tank	mild steel	dia 2700 m/m H. 450 "	1931	2
Apart of Dauling	Kettle cover cast iron		1931	"
"	" "		"	4
"	Body "	dia 2000 m/m H. 2000 "	"	1
"	Supporter "		"	7
Tank	cast iron	1400×1100×1100 m/m	1931	
Nitrator	mild steel	dia 1800 m/m H. 1500 "	"	1
Tank	cast iron	dia 1000 m/m H. 1200 "	"	1
"	"	1750×1000×900 m/m	"	2
"	mild steel	dia 600 m/m L. 4000	"	2
"	"	dia 600 m/m L 7000 "	"	2
"	"	dia 900 m/m L 8.500	"	1
"	"	dia 1900 m/m L 3650	"	1
" (eclips)	Lead	dia 2500-1800 m/m H. 1000	1936	1
" (eclips)	"	dia 2500-1300 m/m H. 1050	"	1
Flat vesal	cast iron	2700×1000×300 m/m	1931	3
Tank	mild steel	dia 2500 m/m H. 1900	"	1
Drum	"	dia 800 m/m L 2400 "	"	1
Cooling Tank	"	"	"	2
Kettle	"	dia 1800 m/m H 1200 "	"	1

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dia 2700 m/m H. 450 "	1931	2		2			
	1941	10		10			
	"	4		4			
dia 2000 m/m H. 2000 "	"	1		1			
	"	7		7			
1400×1100×1100 m/m	1931			3			
dia 1800 m/m H. 1500 "	"	1		1			Acid zone
dia 1.000 m/m H. 1200 "	"	1		1			
1750×1000×900 m/m	"	2		2			
dia 600 m/m L. 4000	"	2		2			
dia 600 m/m L 7000 "	"	2		2			
dia 900 m/m L 8.500	"	1		1			
dia 1700 m/m L 3650	"	1		1			
dia 2.500-1.800 m/m H. 1000	1936	1		1			
dia 2.500-1300 m/m H. 1050	"	1		1			
2700×1000×300 m/m	1931	3		3			
dia 2.500 m/m H. 1900	"	1		1			
dia 800 m/m L 2100 "	"	1		1			
" "	"	2		2			Nitric Acid
dia 1800 m/m H 1200 "	"	1		1			Con contration

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

Boiler	mild steel horizontal	dia 5500 m/m L. 5500	1931	2
Pumps	cr-ni-steel	output 180 g/s dia 15 inch	1940	2
Motor		head 15 m 1 ' H.P.	"	2
"		5 H.P.	"	1
Tanks	mild steel	6300×1800, 1250 m/m dia 1550	1931	1
"	lead	H. 2.000	"	1
Radiator	cr-ni-steel	dia 1250 m/m L. 2000 "	19 "	3
Tanks	aluminium	dia 2000 m/m L. 7000 "	"	1
"	mild steel	dia 15 m/m L. 3700 "	"	1
Water Seperator	centrifugal	dia 1000 m/m	1934	2
"	cage aluminium centrifugal	dia 900 m/m	"	2
"	cage cr-ni steel centrifugal	"	"	2
"	cage copper	"	"	2
Tank	wood	dia 2300 m/m H 3000 "	19	8
"	"	dia 175- m/m H 3300 "	"	1
"	"	dia 3000 " H. 1530 "	"	3

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dia 550 m/m L. 5500	1931	2					
dia 15 inch.	1940	2					
head 15 " 1 " Hpc	"	2					nitric acid
5 Hpc	"	1					concentration
6300×1800, 1250 m/m dia 1550	193.	1					acid zone
H. 2.600	"	1					
dia 1250 m/m L. 2000 "	19	3					
dia 2000 m/m L. 7000 "	"	1					
dia 15 m/m L. 3700 "	"	1					new Expl zone
dia 1000 m/m	1934	2					
dia 900 m/m	"	2					
"	"	2					
"	"	2					office zone
dia 2300 m/m H 3000 "	19	8					
dia 175 m/m H 3300 "	"	1					
dia 3000 " H. 1530 "	"	3					

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

Tank	wood	dia 1400 m/m H. 1300 "	1941	
"	"	dia 2480 " H. 1300 "	"	
"	"	dia 2180 " H 1600 "	"	
" (eclips)	"	dia 2450-1520 H. 1400	"	
"	"	dia 2400 H 3000	"	1
"	"	dia 1150 H 1260	"	
"	mild steel Lead lined	dia 1670 H 1450	1940	
Saponification	mild steel	dia 2000 H. 1600	1934	
"	mild steel	dia 1800 H 2150	"	
Tank	Aluminium	dia 1700 H 3000	1940	
Nitrator	cr-ni- steel centrifugal	2100×1050×1300	1934	
Water Separator	mild steel age aluminium		"	
Tank	mild steel	dia 1200 m/m L 4400	"	
"		195°×120×200	"	
Agitator	cast iron		1940	1
Tank	wood	dia 1700 m/m L 3350 "	1941	
"	mild steel Lead lined	dia 1200 H 2200	1940	
Coal feeder	Rotary		1940	

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

	dia 1640 m/m H. 1300 "	1941	2	2				
	dia 3480 " H. 1500 "	"	1	1				
	dia 2180 " H 1600 "	"	1	1				
	dia 2450-1520 H. 1400	"	2	2				
	dia 2400 H 3000	"	10	10				office zone
	dia 1150 H 1360	"	1	1				
	dia 1670 H 1450	1940	1	1				with agitator
	dia 2000 H. 1600	1934	3	3				
	dia 1870 H 2150	"	1	1				
	dia 1700 H 3000	1940	1	1				
	2100×1050×1300	1934	1	1				
		"	3	3				
	dia 1200 m/m L 4500	"	1	1				
	1950×1200×1200	"	1	1				for paulingkettle
		1940	13	13				
	dia 1700 m/m L 3300 "	1941	2	2				
	dia 1200 H 2200	1940	2	2				
		1940	5	5				

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

Motor	Fuji	K.W. 1710 Rpm 3	
"	Nakajima	Rpm KW 1760 3.7	
"	Chuo	Rpm KW 1730 2 KW	
"	"	1760 Rpm 3.7 KW	1942
"	Meidem	1730 " 2 "	1936
"	"	1710 " 15 "	1936
"	Yasukawa	1730 " 22 "	1942
"	"	1715 " 20 "	1942
"	Shibaura	" 15 Hp	
"	Hitachi	1730 " 7.5 "	
"	Kirosaki	1720 " 1 "	
"	Chuo	1730 " 3.75 "	1943
"	Mitsubishi	" 5 "	
"	Yasukawa	20 KW	1942
"	Fuji	1740 1 KW	
"	Yasukawa	1748 5 KW	1942
"	Chuo	1730 3.75 "	1942
	Meidem	5 Hp	

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

K.W. 1710 Rpms	1	2	2	0	
Rpm KW 1740 3.1		1	1	0	
Rpm KW 1730 2 KW		5	5	0	
1740 Rpm 3.75	1942	1	1	0	
1730 " 2 "	1936	1	1	0	
1710 " 15 "	1936	1	1	0	
1730 " 22 "	1942	1	1	0	
1715 " 27 "	1942	1	1	0	Im promise
" 15 Hp		1	1	0	
1730 " 7.5 "		4	4	0	
1720 " 1 "		2	2	0	
1730 " 3.75 "	1943	1	1	0	
" 5 "		7	7	0	
20 KW	1942	1	1	0	
1740 1 KW		1	1	0	
1748 5 KW	1942	1	1	0	
1730 3.75 "	1942	3	3	0	
5 Hp		1	1	0	

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

Motor	Hitachi	1720	1 Kw	1934	1
"	"	1200	30 hp	1924	1
"	Chuo	1730	5 Kw	1940	1
"	Mitsubishi	1170	10 Kw	1940	1
"	Okumura	1200	30 Kw	1919	1
"	Shibaura	1720	15 "	1928	1
"	Hitachi	1160	30 hp	1929	1
"	"	1760	1 Kw		2
"	Chuo	1740	5 "	1940	1
"	Hitachi	1720	1 "		1
"	Chuo	1720	3.75 "	1940	1
"	Nakajima	"	"		1
"	Mitsubishi		3 hp		3
"	Maidem	1730	R.P.M. 1.5 Kw	1936	1
"	Shibaura	1800	1 "	1939	1
"	"		5 hp		1
"	Maidem		"	1936	1
"	Mitsubishi	1720	3 Kw		1

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

	1720 [illegible] hp	1924	1		1	0	
	1200 30 hp	1924	1		1	0	
	1730 5 KW	1942	1		1	0	
	1170 10 KW	1940	1		1	0	
	1200 30 KW	1917	1		1	0	
	1750 15 "	1928	1		1	0	
	1160 30 hp	1927	1		1	0	
	1750 1 KW		2		2	0	In premise
	1740 5 "	1940	1		1	0	
	1720 1 "		1		1	0	
	1720 3.75 "	1940	1		1	0	
	" "		1		1	0	
hi	3 hp		3		3	0	
	1730 RPM 1.5 KW	1936	1		1	0	
e	1800 1 "	1939	1		1	0	
	3 hp		1		1	0	
	"	1936	1		1	0	
hi	1720 3 KW		1		1	0	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 715 013

Motor	"Yasukawa"	1½ HP 2.5 KW Rpm	1942	1
"	"Mitsubishi"	5 Hp	"	1
"	"Shibaura"	"	2	2
"	"Hitachi"	1740 Rpm 2.5 KW	1940	1
Feed pump	Washington dia 2 "		1942	1
"	dia 60 m/m		1942	1
Motor	"Hitachi"	1730 Rpm 7.5 KW	1937	1
"	"Yasukawa"	" 15 KW	1939	2
"	"Hitachi"	" "	2	1
"	"Fuji"	7.5 KW	1	1
Feed pump	Washington dia 60 m/m		1938	2
"	" motor arizon		1942	1
Centrifugal pump	dia 60 m/m			
Motor	"Showa"	1730 Rpm 5 KW	1940	1
"	Hitachi	" 7.5 "	1937	1
Reduction gear	Shimazaki	H.S 1800 L.S 200	1	2
Motor	Showa	1720 Rpm 3.5 KW	1940	1
"	Hitachi	" ½ Hp	1938	3
"	Meiden	1710 3.75 KW	1936	1

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

"	RPM 1140 2.5 KW	1942	1		1	0		
"	5 Hp	"	1		1	0		
"	"	2	2		2	0		
"	RPM 1740 2.5 KW	1940	1		1	0		
on		1942	1		1	0		
		1942	1		1	0		
"	RPM 1730 7.5 KW	1937	1		1	0		
"	" 1.5 KW	1939	2		2	0		
"	" "	2	1		1	0		
"	7.5 KW	1	1		1	0		
tion		1938	2		2			
rison		1942	1		1	0		
"	RPM 1730 5 KW	1940	1		1			
	" 7.5 "	1937	1		1	0		
ki	N.S 1800 L.S 200	1	2		2	0		
	RPM 1750 3.5 KW	1940	1		1	0		
	" 5 Hp	1938	3		3			
	1740 3.75 KW	1936	1		1	0		

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

Major	"Yasukawa"	R.P.M 1720 5 H.P.		1
"	"Mitsubishi"	" "		1
"	"Shibaura"	15 KW	1942	1
"	"	R.P.M 1720 1 KW		1
"	"Maiden"	1500 3 H.P.	1940	1
"	"	1700 3.7 H.P.	1936	3
"	"Hitachi"	1700 H.P.	1939	3
"	"Fuji"	1720 5 H.P.	1938	1
"	"Yasukawa"	1166 10 KW		2
"	"Maiden"	865 " 20 H.P.		1
"	with solcher sea state	5 KW		2
"	"Chuo"	R.P.M 1730 5 KW	1940	1
"	"Okumura"	900 " 10 H.P.	1916	2
"	"Chuo"	1730 3.5 KW	1940	3
"	"Mitsubishi"	1700 3 H.P.		1
"	"Shibaura"	1.5 KW		1
"	"Hitachi"	R.P.M 1710 1 H.P.	1940	1
"	"Maiden"	1720 " 1.5 H.P.		1

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

"	Rpm 1720 5 Hp		1		1	0		
"	" "		1		1	0		
"	15 KW	1942	1		1	0		
	Rpm 1720 1 KW		1		1	0		
"	1800 3 Hp	1940	1		1	0		
	1700 3.7 Hp	1936	3		3	0		
"	1700 2.5 Hp	1939	3		3	0		
"	1720 5 Hp	1938	1		1	0		
"	1166 10 KW		2		2	0		
"	865 20 Hp		1		1	0		In premise
	5 KW		2		2	0		
"	Rpm 1730 5 KW	1940	1		1	0		
"	" 900 10 Hp	1916	2		2	0		
"	1730 3.5 KW	1940	3		3	0		
"	1700 3 Hp		1		1	0		
"	1.5 KW		1		1	0		
"	Rpm 1710 1 Hp	1920	1		1	0		
"	" 1720 1.5 KW		1		1	0		

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 715 013

Motor	"Hitachi"	1720 RPM 5 HP	1939
"	"Yasukawa"	" 5 KW	1939
"	"Sibaura"	1140 RPM 5 KW	
Reduction gear	"Sasaki"	H.S. 1200 L.S. 60	1935
Centrifugal pump	with motor 10 HP		
"	"Dia 3"		
Transformer	"Naigai Denki"	30 KVA	
Water separator	"Centinfugal"		
Oil switch	"Shibaura"	3500 V 400 A	
Motor	"	7 1/2 HP	
"	"Yasukawa"	5 HP	
"	"	3 HP	
"	"Kyokuto"	3 HP	
"	"Shibaura"	2 HP	
"	"Yasukawa"	2 HP	
"	"	1 HP	
"	"	1/2 HP	
"	"	0.2 KW	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 715 013

"	1720 RPM 5 HP	1939	1		1			
awa "	" 5 KW	1939	1		1			N Premise
a "	1140 RPM 5 KW		1		1			
"	H.S. 1200 L.S. 60	1935	1		1			
otor p			2		2			
3 "			1		1			
Denki "	30 KVA		4		4			
fugal "			1		1			
a "	3500 V 400 A		1		1			
	7½ HP		1		1			
awa "	5 HP		13		13			
	3 HP		6		6			Sakurajima warehouse
to "	3 HP		1		1			
wa "	2 HP		2		2			
awa "	2 HP		3		3			
	1 HP		3		3			
	½ HP		3		3			
	0.2 KW		3		3			

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

Sketch of Main

Scale

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...n of the Layout ...in Buildings

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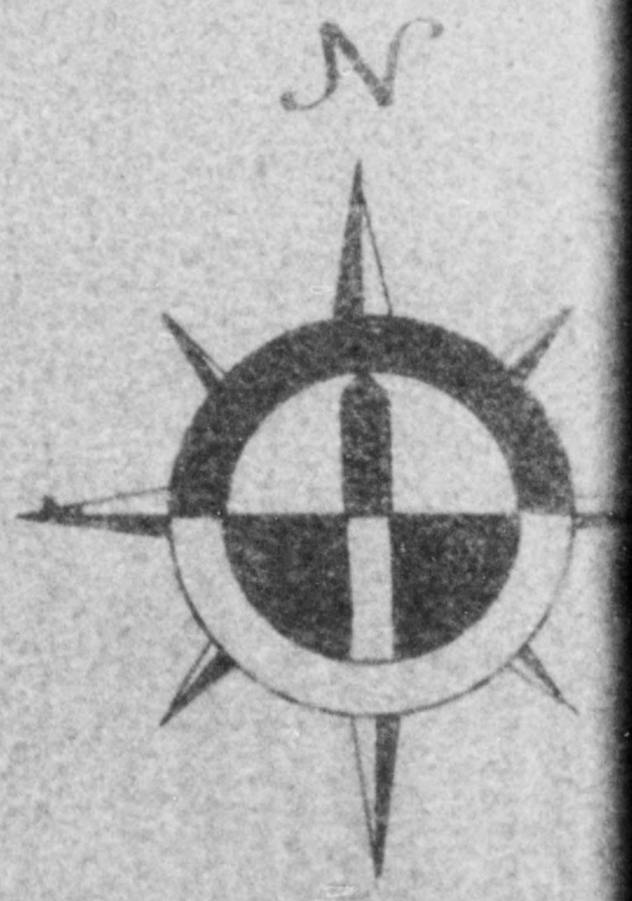

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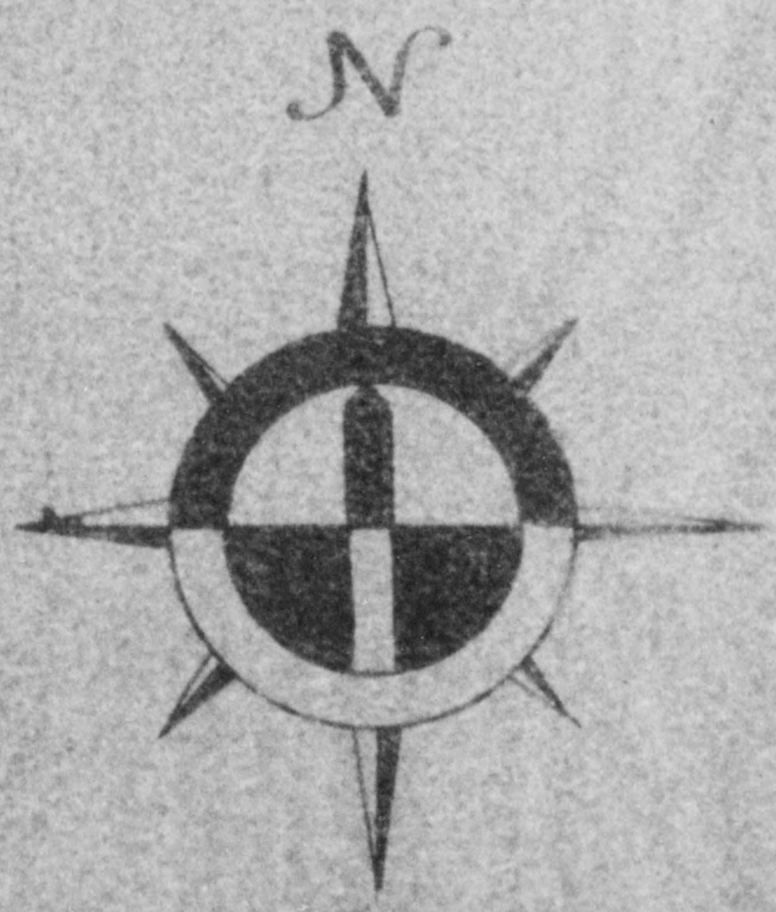

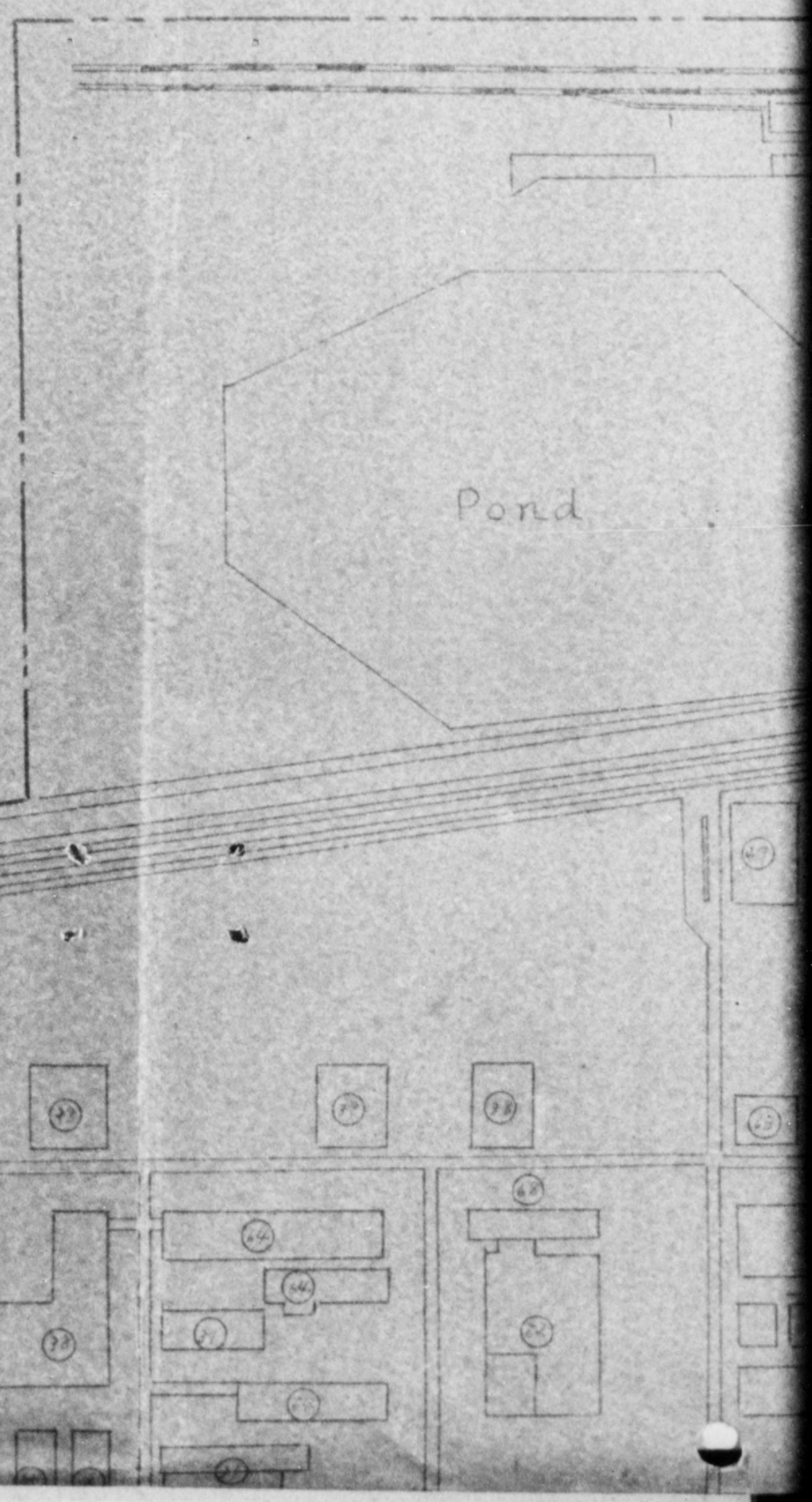

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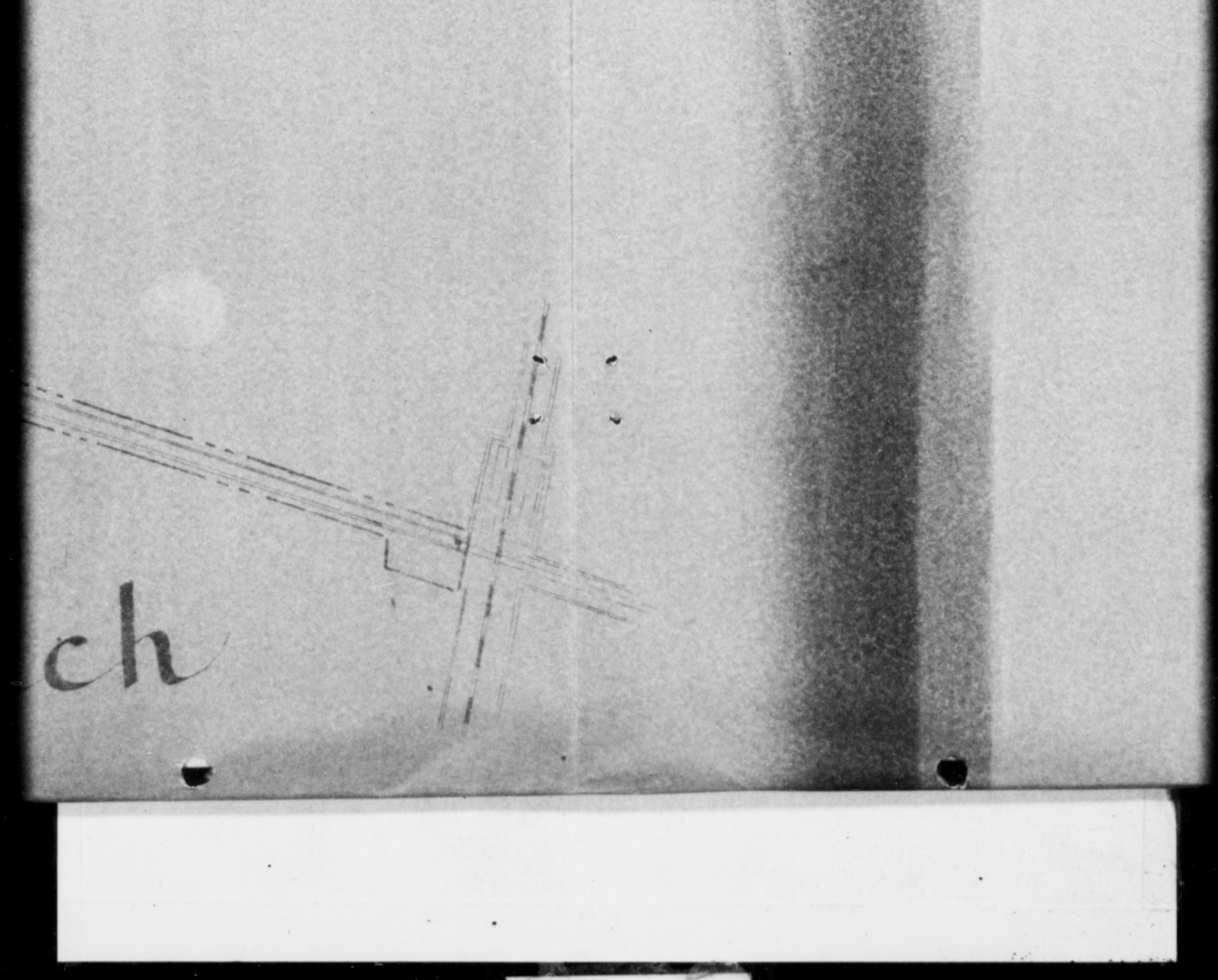

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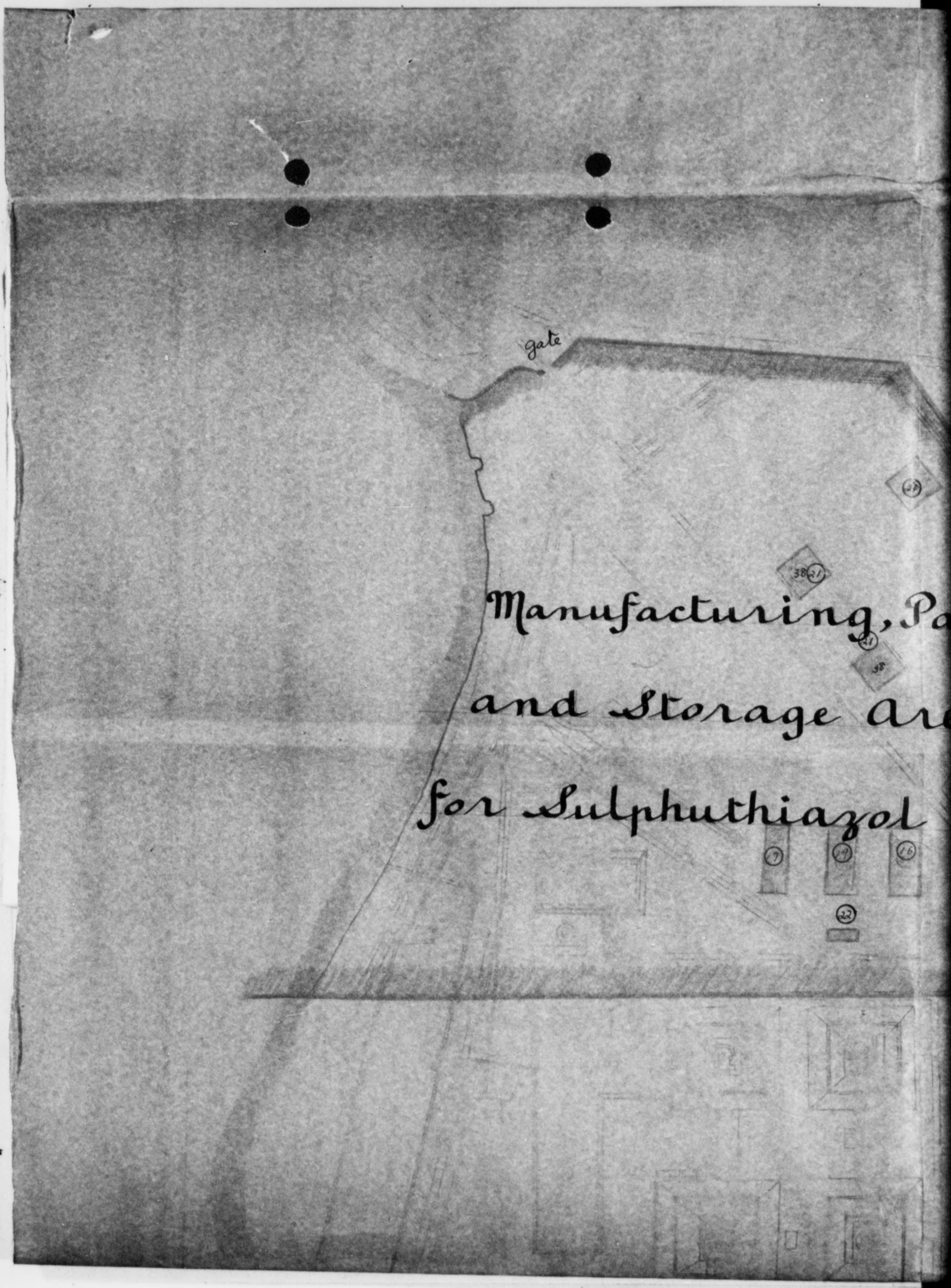

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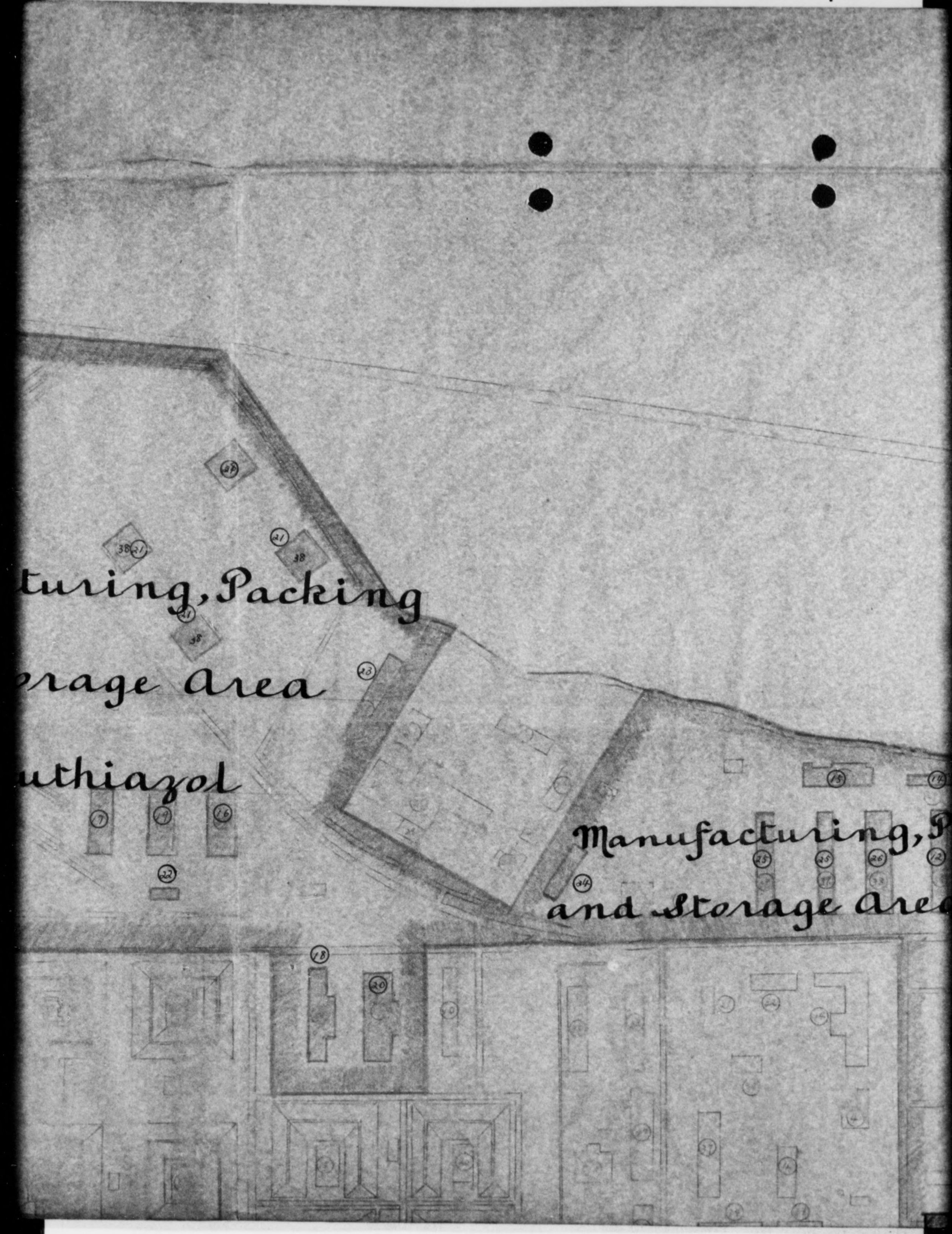

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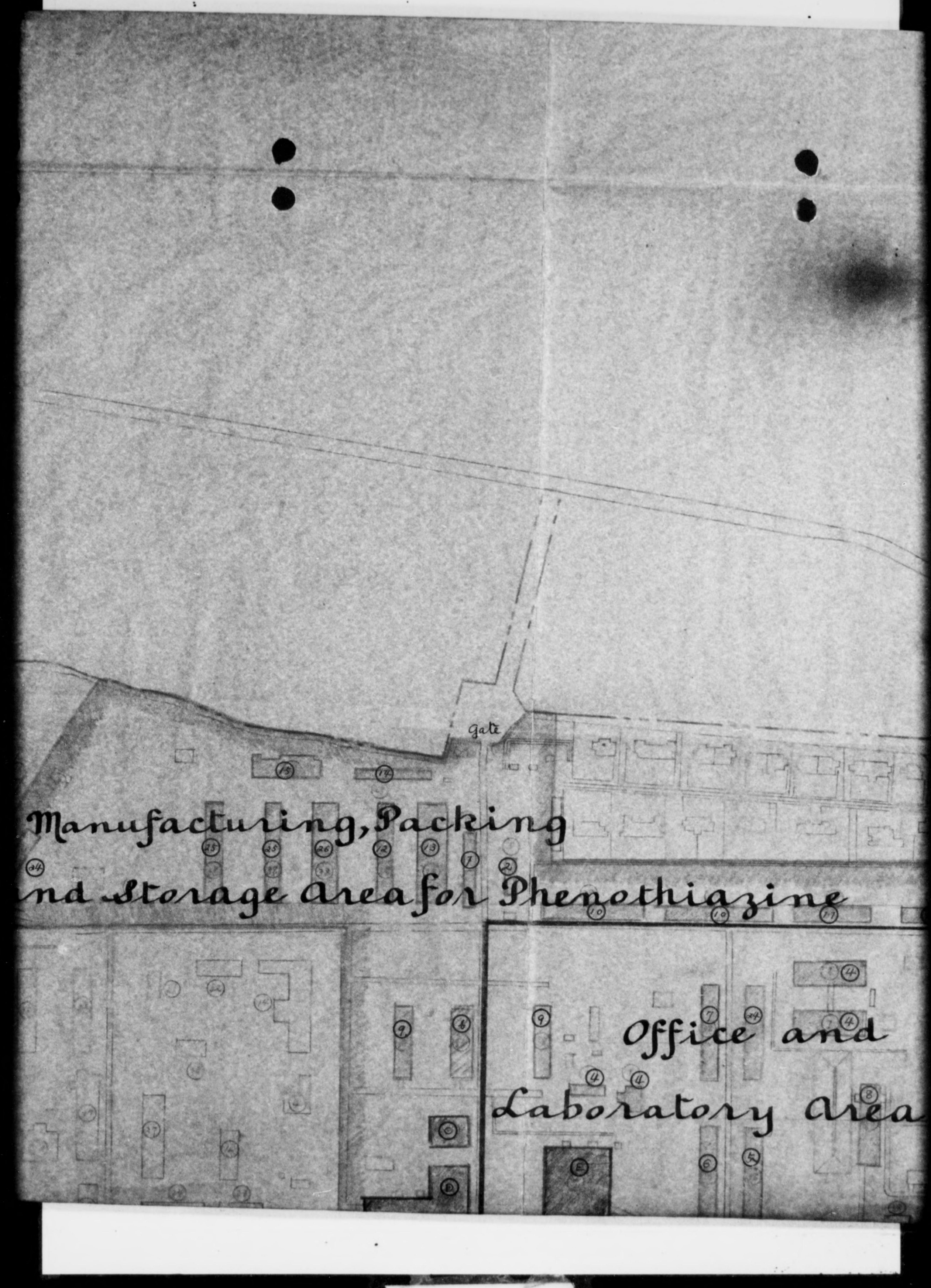

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Manufacturing and Packing Area for Sulphuguanidine

Pond

Pond

Pond

Bra nc

Factor

Outline Sketch
the Ug. Arsena

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Branch Factory

Outline Sketch of the Uji Arsenal

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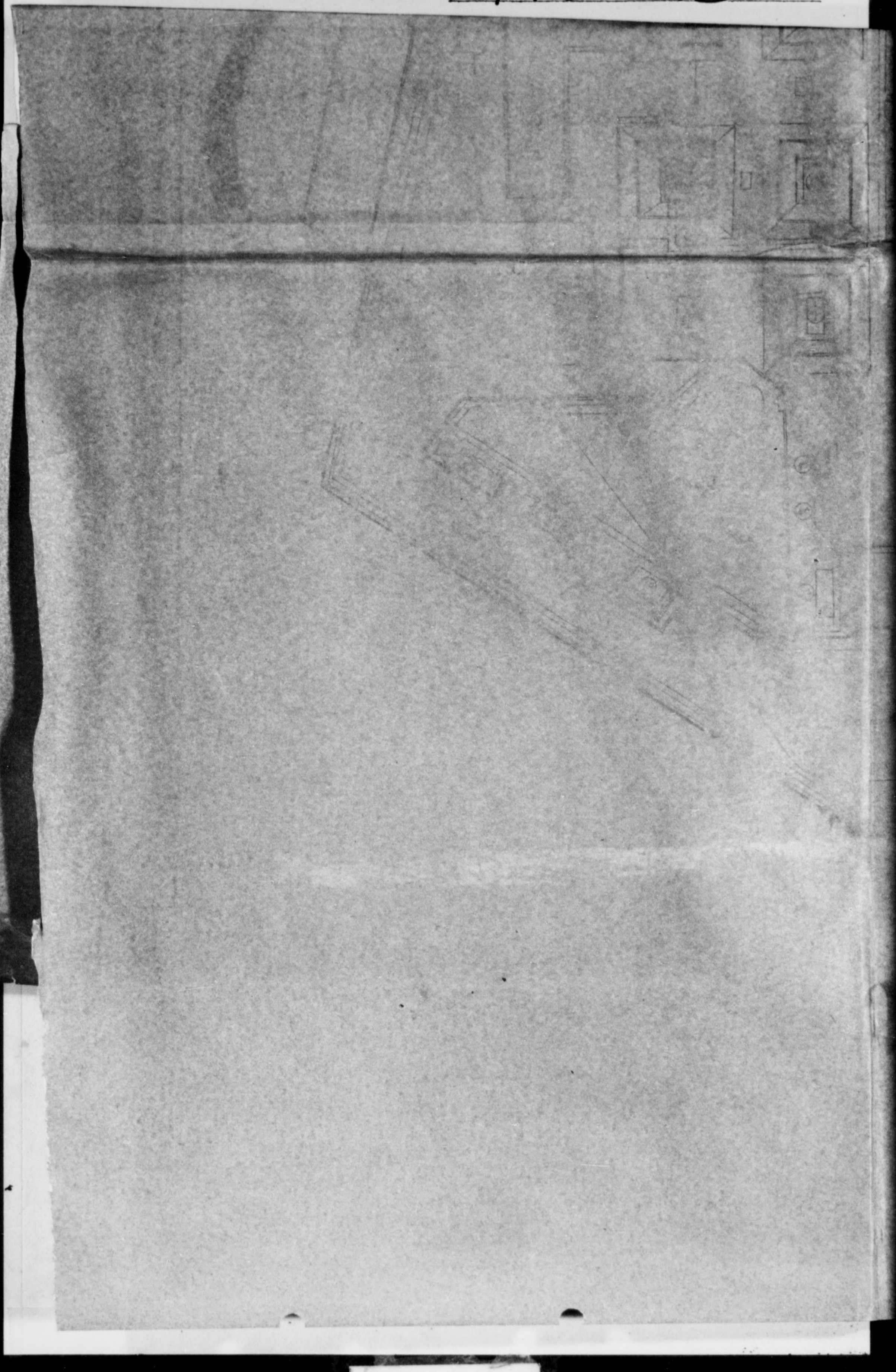

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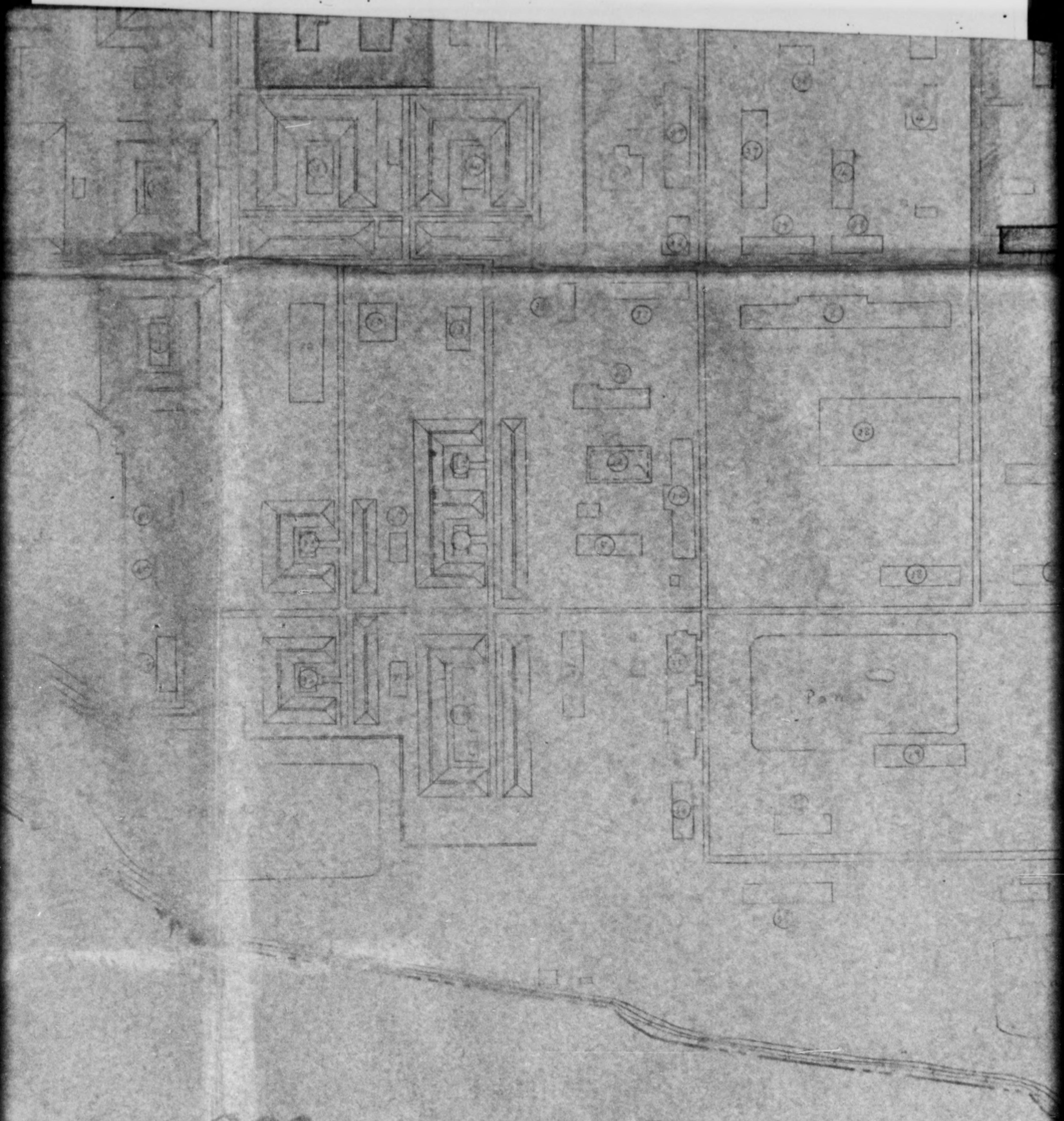

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Laboratory area

Pond

Pond

Laboratory

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area

Pond

Pond

Pond

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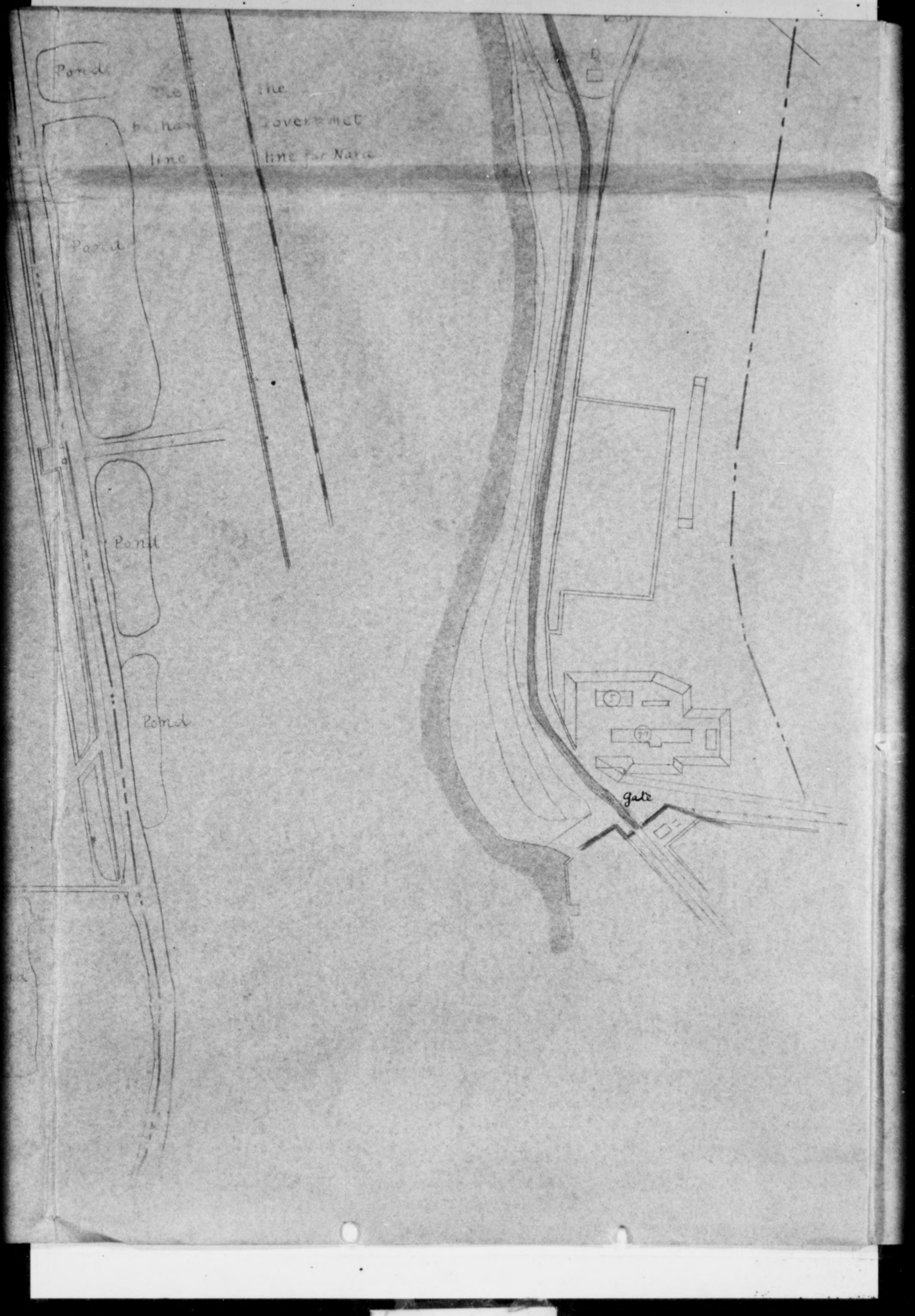

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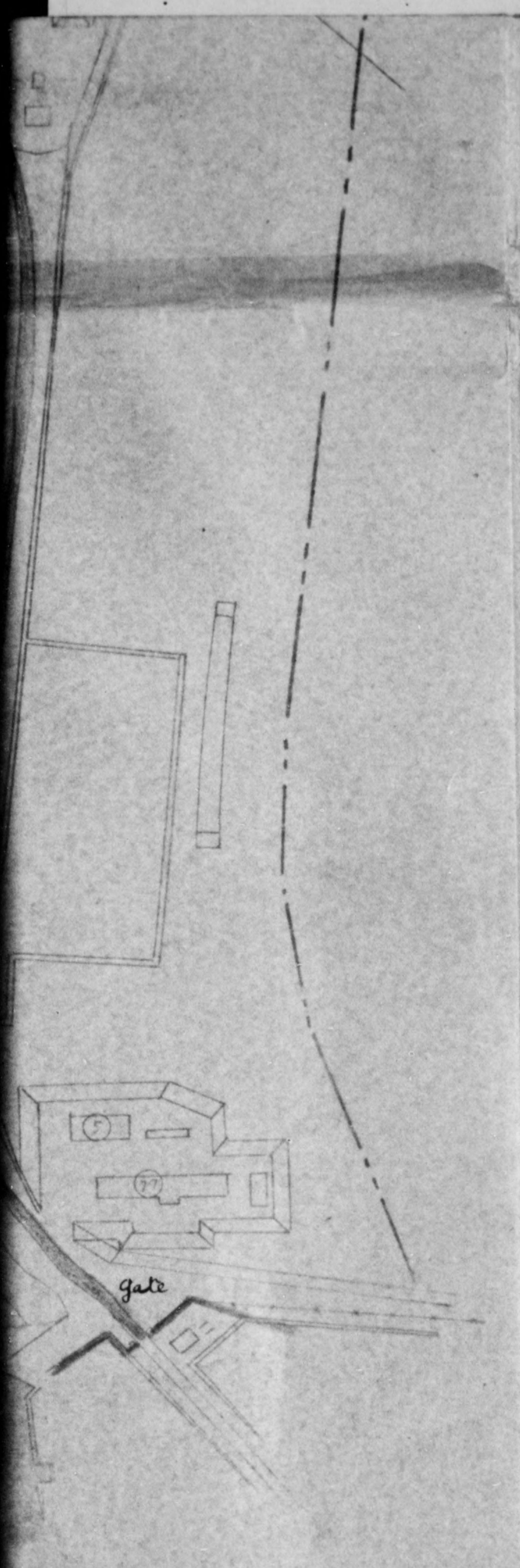

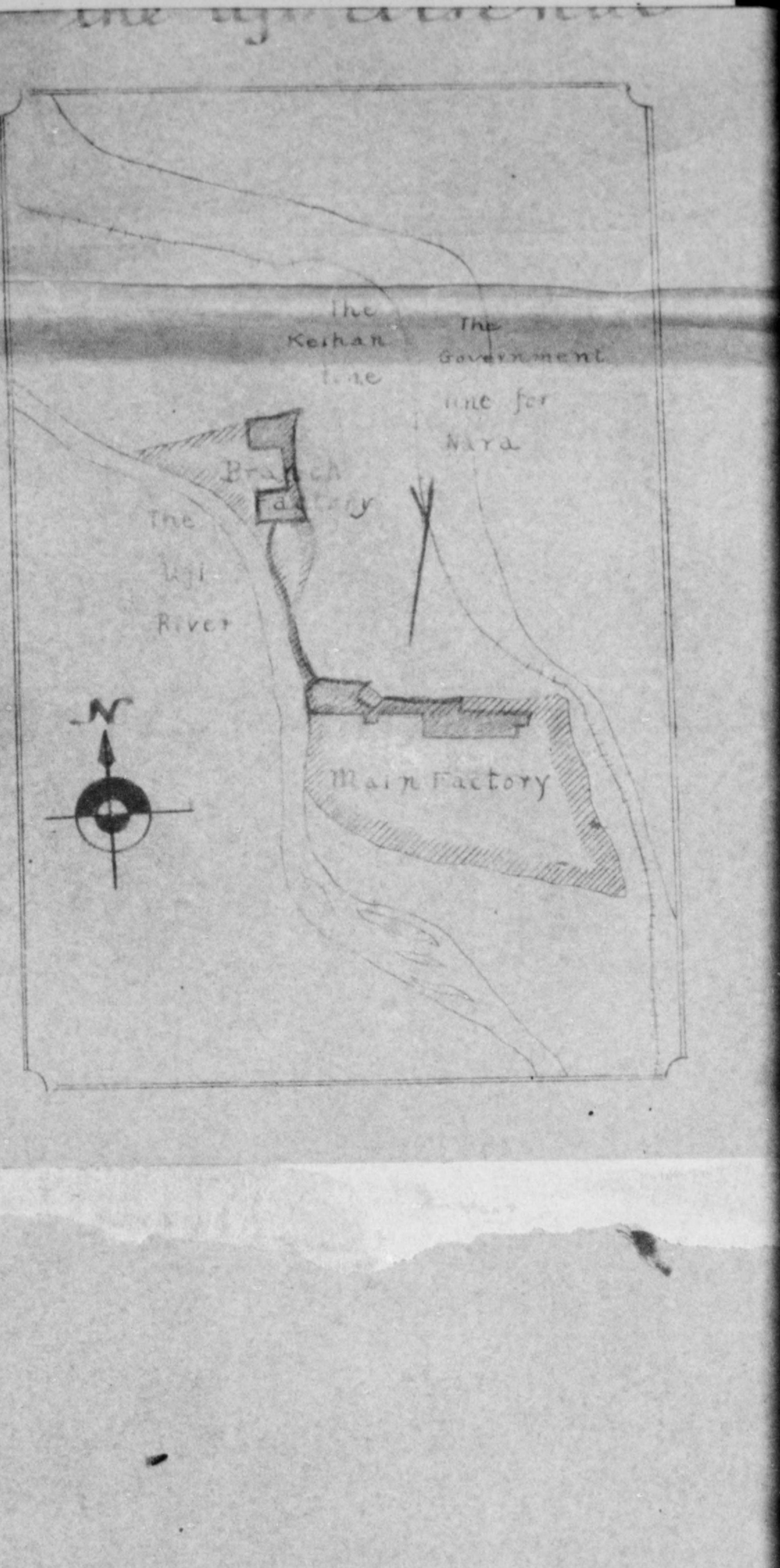

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

THE USE OF FACTORY BU

Number	
1.	Main office.
2.	Workers' station
3.	Engineering offi
4.	Laboratory.
5.	Phenothiazine sy
6.	Phenothiazine ex
7.	Phenothiazine pu
8.	Semi-industrial
9.	Phenothiazine mf
10.	Warehouse of raw
11.	Warehouse of phe
12.	Repairing plant.
13.	Carpenting & elec
14.	Consultation roo
15.	Club house.
16.	Ether chlorinati
17.	Thiourea synthesi
18.	Acetoamino-benzen (for sulphuthiaz
19.	Acet sulfide syn
20.	Sulphuthiazol sy
21.	Warehouse of raw
22.	Workers' station
23.	Warehouse of misc
24.	Custody place of
25.	Sulphuthiazol pa
26.	Warehouse of sul
27.	General office.
28.	Warehouse of raw
29.	Warehouse of sul
30.	Sulphuguanidine
31.	Repairing plant.

Remarks:

a) The buildings (A.B.C.D. blue crayon in the sketch and apparatus. If you woul warehouse of the other pa by the Japanese Governmen condition by their respons them in the next period. utilizedthesulphuguanidin sulphuthiazol m'g. plant. above is approved.

b) The buildings which are destructed during the war

c) The buildings to which toilet-houses, huts, etc., ing.

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

THE USE OF FACTORY BUILDINGS AFTER RECONVERSION

Number	Description
1.	Main office.
2.	Workers' station.
3.	Engineering office.
4.	Laboratory.
5.	Phenothiazine synthesizing plant.
6.	Phenothiazine extracting plant.
7.	Phenothiazine purifying & solvent recovering plant.
8.	Semi-industrial plant.
9.	Phenothiazine mfg. plant.(used in the 2nd period)
10.	Warehouse of raw materials for phenothiazine.
11.	Warehouse of phenothiazine.
12.	Repairing plant.
13.	Carpenting & electrisally repairing plant.
14.	Consultation room.
15.	Club house.
16.	Ether chlorinating plant.(for sulphuthiazol)
17.	Thiourea synthesizing plant.(for sulphuthiazol)
18.	Acetoamino-benzene-sulphuchloride synthesizing plant. (for sulphuthiazol)
19.	Acetanilide synthesizing plant.(for sulphuthiazol)
20.	Sulphuthiazol synthesizing plant.
21.	Warehouse of raw materials for sulphuthiazol.
22.	Workers' station.
23.	Warehouse of miscellaneous articles.
24.	Custody place of various materials.
25.	Sulphuthiazol packing plant.
26.	Warehouse of sulphuthiazol.
27.	General office.
28.	Warehouse of raw materials for sulphuguanidine.
29.	Warehouse of sulphuguanidine.
30.	Sulphuguanidine synthesizing plant.
31.	Repairing plant.

Remarks:

a) The buildings(A.B.C.D.E.F.G), which are painted with a blue crayon in the sketch, are equiped with some machines and apparatus. If you would permit us to remove into the warehouse of the other part of the arsenal which are controled by the Japanese Government, and carefully preserved in good condition by their responsibility, we are going to utilize them in the next period. By our plan, A,B,F, and G will be utilizedthesulphuguanidine mfg. plant, and C,D,and E, as sulphuthiazol mfg. plant. We shall be much obliged if the above is approved.

b) The buildings which are colored with red hatching, were destructed during the war in order to reduce air-raid damages.

c) The buildings to which no mark is put in the sketch, are toilet-houses, huts, etc., so we saved much trouble of marking.

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

THE FORMER USE OF THE MAIN B UILDING S

1. Physical and Chemical Testing room.
2. Main Office.
3. Office.
4. Forge.
5. Office and Dining-room for Workers.
6. Separating Plant.
7. Washing and Cutting Plant.
8. Boiling and Cutting Plant.
9. Boiling Plant.
10. Drying Plant.
11. Glazing Plant.
12. Combining Plant.
13. Packing Plant.
14. Machine Plant.
15. Dehydrating Plant.
16. Solvent Recovering Plant.
17. Primary Pressing Plant.
18. Primary Pressing and Cutting Plant.
19. Standing Plant.
20. Dehydration, Compression and Cutting Plant.
21. Warehouse of Dangerous Chemicals.
22. Transformer Room.
23. Ether Plant.
24. Yeast Cultivating Room.
25. Alcohol Plant.
26. Nitrocellulose Pressing Plant.
27. Roling and pressing Plant.
28. Power Station.
29. Alcohol Distilling Plant.
30. Cotton Plant.
31. Water Cooling Plant.
32. Mixing Plant.
33. Kneading Plant.
34. Repair Plant.
35. Ammonium Nitrate Manufacturing Plant.
36. Ammonium Nitrate Packing Plant.
37. Cotton Scouring Plant.
38. Warehouse.
39. Sieving Plant.
40. Finishing Plant.
41. Carpenting Plant.
42. Metal Plate Plant.
43. Nursery.
44. Powder-magazine.
45. Pump Room.
46. Air Conditioning Plant.
47. Bath-room.
48. Firemen's Office.
49. House of Fire-engine.
50. Powder Stuffing Plant.
51. Main Pump House.
52. Melting Plant.
53. Consultation Room.
54. Nitroguanidine Manufacturing Plant.
55. Ward.
56. Warehouse of Bullets.
57. Guncotton Mixing and Dehydrating Plant.

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58. Picric Acid Pressing Plant.
59. Vaccum Drying Plant.
60. Guncotton Precipitating Plant.
61. Hot Water Dipping Plant.
62. Boiler Room.
63. Nitrating Plant.
64. Guncotton Acid Mixing Plant.
65. Waste Acid Treating Plant.
66. Chemicals Analysing Room.
67. Nitronaphtaline Nitrating Plant.
68. Picric Acid Purifying Plant.
69. T.N.T. Nitrating Plant.
70. Picric Acid Nitrating Plant.
71. T.N.T. Purifying Plant.
72. Acid Separating and Concentrating Plant.
73. R.D.X. Nitrating Plant.
74. R.D.X. Purifying Plant.
75. Cotton Purifying Plant.
76. Dormotry House of Technical Workers.
77. Waste Water Treating Room.
78. Picric Acid Saponifying Plant.
79. Official Residences.

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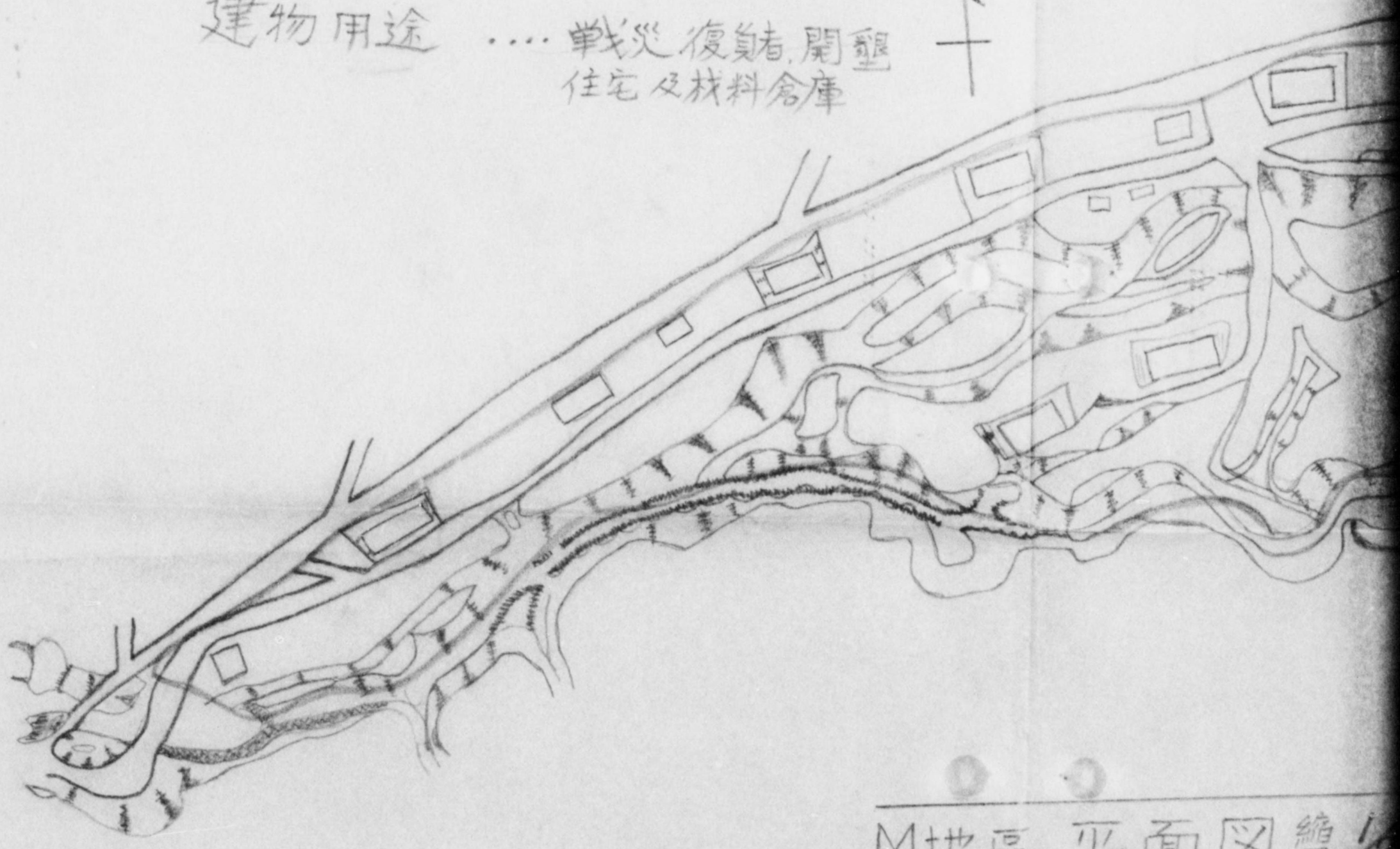
敷地民有地 9.950坪
建物木造 448坪 (9棟)
建物用途 .... 戦災復旧者、開墾住宅及材料倉庫

北



M地区 平面図 縮尺

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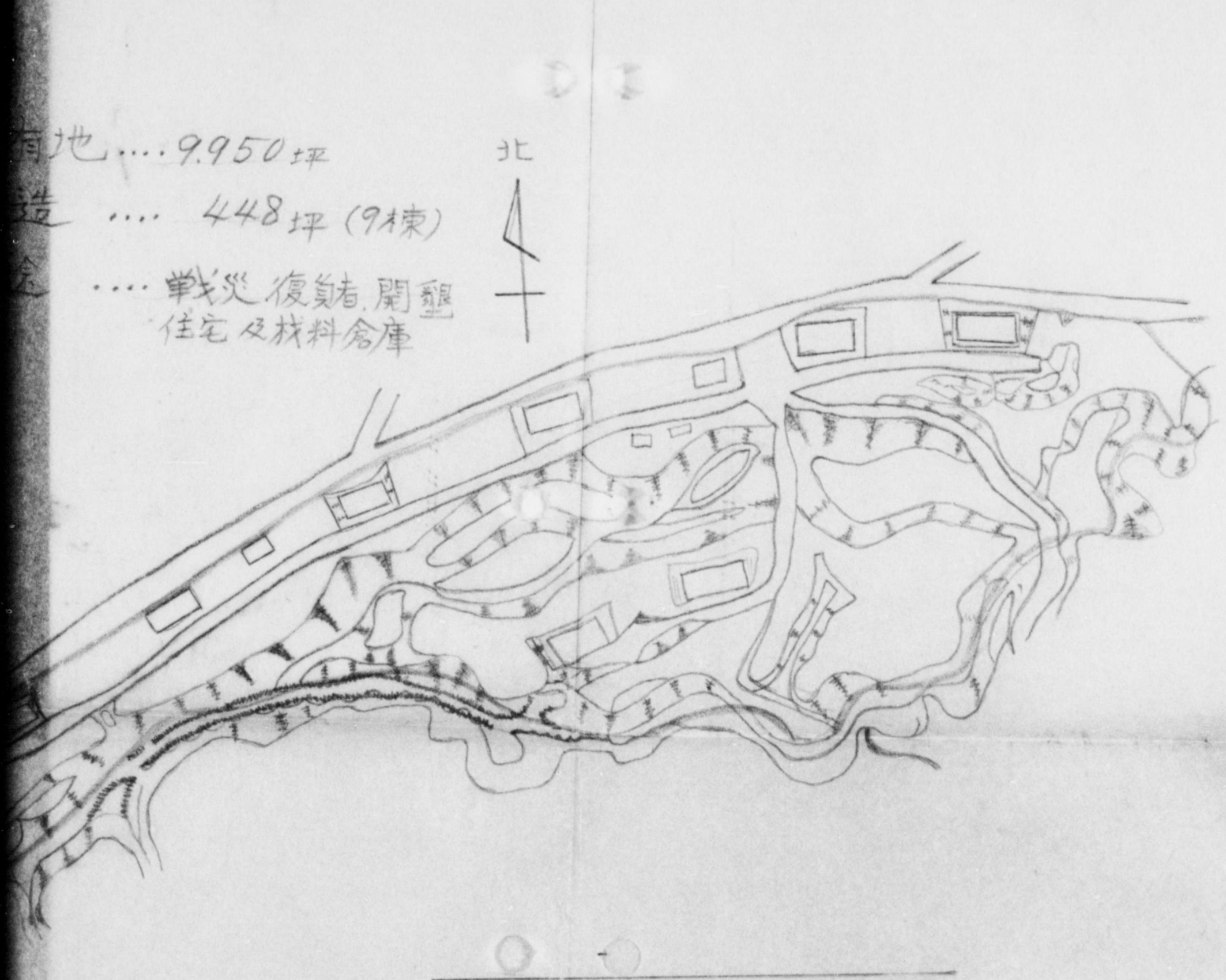
有地 …… 9,950坪

造 …… 448坪 (9棟)

念 …… 戦災復旧者、関係
住宅及材料倉庫



M地區 平面図縮 1/2000

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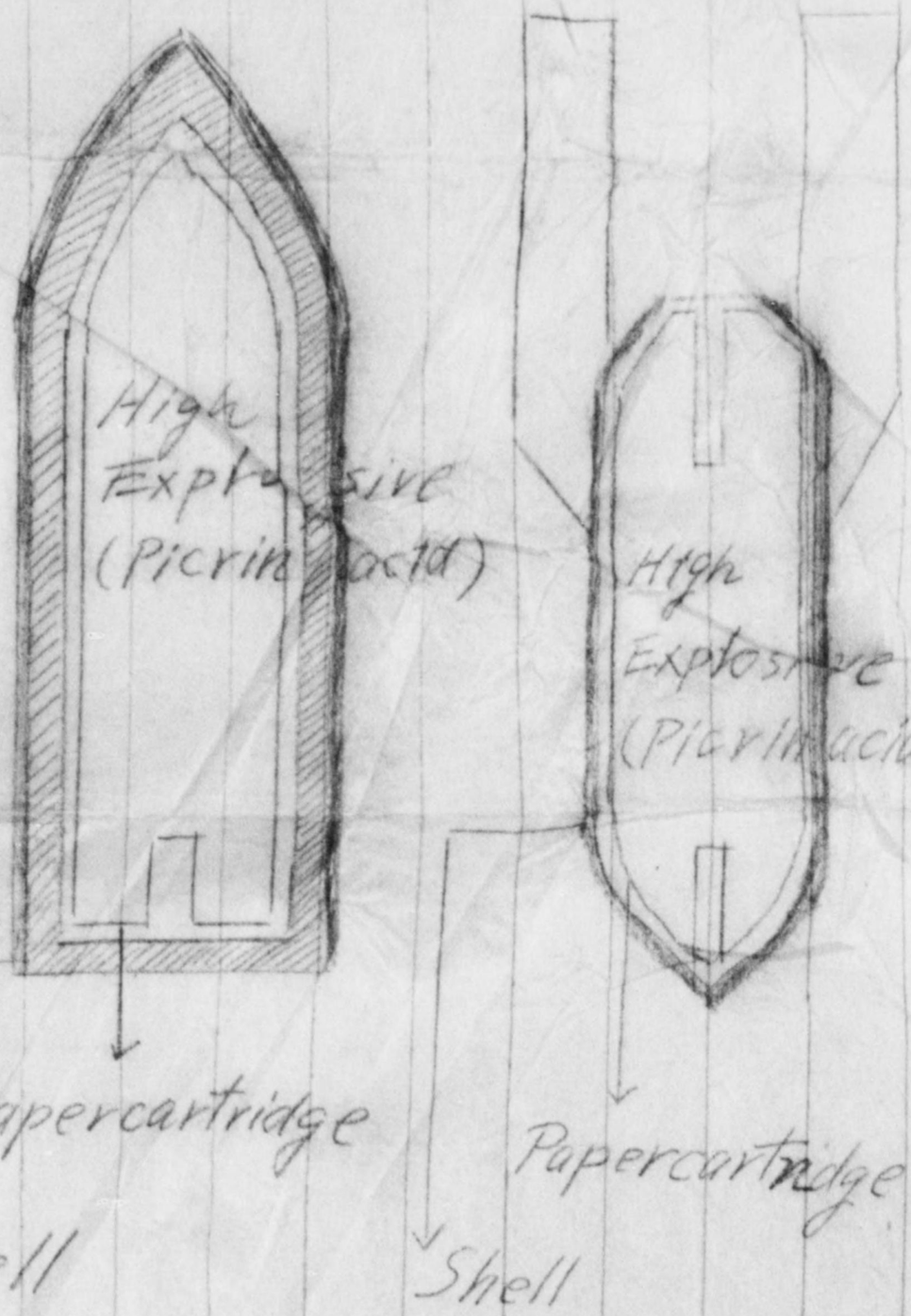
數個を組合せて爆弾又は種類に應じて充填する場合

のカートリッヂの寸度又從つてブロックの寸度も亦各種のものがある舍てあり御氣の附かれたもの〻外にも尙數種類寸度の異るブロックか同一倉庫に格納してある



(日本標準規格B一一)

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

連　絡

昭和二十一年七月十六日

京都府廳　大　西　連絡官　殿

宇治製造所監理部長
小　島　太　郎

軍政部スタール伍長に先般御質問の件左の如く連絡乞ふ

記

御質問の二種類共工場内て作業用に用ふるアルミ製ブロックは砲彈、爆彈用爆藥を包む紙製カートリッチを作るに用ふる道具てある、紙製カートリッチを包んだ爆藥一箇或は數箇を組合せて爆彈又は砲彈に塡實する爆藥の所要寸度か異るに從つて之れを包む爲めのカートリッチの寸度又從つてブロックの寸度も亦各種のものかある筈てあり御氣の附かれたもの丶外にも尙數種類寸度の異るブロックか同一倉庫に格納してある

陸軍

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

(23)

KYOTO PREFECTURAL GOVERNMENT
OF
THE HOME MINISTRY

Kyoto, 11th March, 1946.

To: C.G., I Corps M. G.
Thru: C.G., 31st M.G.

Subject: Recommendation to an application of permission for the reconversion of a military arsenal to a peace-industrial factory.

Dear Sir,

We have the honour to send you an application of permission submitted to us from Nippon Chisso Hiryo Kabushiki Kaisha (Japan Nitrogenous Fertilizer Co.,Ltd.), for reconverting lands and buildings of Uji gun-powder plant into a peace-industry, which has belonged to the ex-Tokyo Second Military Arsenal.

We shall be much appreciated if you could take care of above application for promoting the national happiness and welfare.

We remain, yours faithfully.

C Kimura

Atsushi Kimura.
Governer.
Kyoto Prefectur.

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

BASIC: Ltr Hq I Corps, AG 004-BA dtd 20 Feb 46, subj: Nippon Chisso Hiryo K. K., Osaka."

31st Mil Gov't Hq & Hq Co, APO 660 (Kyoto Office) 21 Mar 46

To: Commanding General, Hq I Corps, APO 301
(Thru: 107th Mil Gov't Hq & Hq Co, APO 660)
(Attn: Mil Gov't Industrial Officer)

1. In compliance with request in paragraph 1 of basic communication, this office reports that the request has been complied with.

2. Relative to possible granting of permit named in paragraph 3 of basic, this office reports that the officials of the Nippon Chisso Hiryo K.K., are at present formulating plans for the disposition and storage of machinery of said arsenal and looking toward submitting new application for reconversion of plant to civilian production.

JAMES W. COLEMAN
Major, Infantry,
Commanding.

1 Incl
n/c

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 773 013

HEADQUARTERS I CORPS
APO 301 (Kyoto, Honshu)

GLS/hs

AG 004 - BA

20 FEB 1946

SUBJECT: Nippon Chisso Hiryo K.K., Osaka

TO: Commanding Officer, 107th Military Government Company, APO 660

1. The above-mentioned concern, petitioned this headquarters 2 February 1946, not to blow up the ex-Uji Plant of the Second Tokyo Military Arsenal. It is requested that you inform this company that it was never the intention of the Occupational Forces to blow up the buildings, after removing machinery for reparations.

2. The original application for reconversion submitted by the above concern was rejected by Eighth Army. In this application the company intended to use the machinery already installed in the plant.

3. If this company can show that only certain buildings will be used, and that the machinery now in the plant can be safely stored, and not used in its plans for production, it is suggested that a new application for reconversion be submitted on these conditions.

BY COMMAND OF MAJOR GENERAL HUNT:

W. A. SWEETEN
Lieut. Colonel, A.G.D.
Adjutant General

1 Incl:
1. Petition

1st Ind

Hq, 107th Mil Govt Hq & Hq Co, APO 660 (Osaka, Japan), 12 Mar 46

TO: CO, 31st Mil Govt Hq & Hq Co, APO 660 (Kobe)

Forwarded as a matter pertaining to your command and for compliance to basic communication.

By order of Lieutenant Colonel ATWOOD:

1 Incl
n/c

BEN LOCKE
Maj, AC
Resources & Ind. Officer

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 773 013

31ST MILITARY GOVERNMENT
HQ & HQ CO, APO 660
KYOTO OFFICE

21 March 1946

SUBJECT: Destruction of Arsenal

TO : Nippon Chisso Hiryo Kabushiki Kaisha

The contents of your letter dated 2 February 46 is noted, and you are hereby notified that it was never the intention of the Occupational Forces to blow up or destroy the buildings of the above-named Arsenal after removing the machinery for reparation. You can rest assured that this plant will not be destroyed.

JAMES W. COLEMAN
Major, Infantry,
Commanding.

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

NIPPON CHISSO HIRYO KABUSHIKI KAISHA
Osaka and Tokyo

2nd, Feb.,1946
Tokyo

Commander, 31st Military Government Compaby.

Dear Sir,

According to the press release of the G.H.Q. S.C.A.P., it was made clear that the ex-Uji Plant of the Second Tokyo Military Arsenal, for which we have presented application for reconversion to the production of civilian consumers' necessary commodities, was designated as one of the priory objects for reparation.

Being aware that Japan's present main difficulties to be overcome quickly in the economic field lies in the keen unbalance between small production and overwhelming demand for every line of commodities, our company has decided to serve the general public to their utmost along the line in which they are perfectly talented and experienced.

With the above stated purpose, the company has fortunately been entrusted to carry on the reconversion project of the said plant, and as the application shows, planned to produce such things as Saccharine, medicals such as Acetanilide, Sulphamines, or Mercurochrome, Acetate staple fibre and silk, Cellulose acetate moulding compound, Organic rubber chemicals, Celluloid, Synthetic Corundum and Coal mine explosives, the last item pending to permission by the Allied Authorities.

Our original plan has been to make use of some of the machineries and equipments, but since they are slated to be put for reparation, we changed the plan and started quite a new plan for utilizing only the factory lots and buildings after they are taken away.

This being the case, it is our sincere hope and desire that by your generous reasoning, you will give up blowing up the factory building after removing the machineries and equipments for reparation, if you really have that plan as quoted in the irresponsible rumour. The reason for our petition lies in the fact and judgement that because of the serious economic situation prevailing in Japan, it cannot be expected that such fine buildings as they are be constructed easily or quickly. Thus the left buildings will in themselves play a big role in promoting the commencement of production of such commodities as mentioned above for the a-

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

bundant supply of which the general public are keenly longing.

Hoping that this petition will be received with your kind and reasonable generosity for the welfare of the general public,
We remain

Faithfully yours,

Naosaburo Enami

Naosaburo Enami,
President, Director,
Nippon Chisso Hiryo
Kabushiki Kaisha

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

Koku No. 166
8th December, 1945.

From

To: President, Nippon Nitrogenous Fertilizer Mfg. Co., Ltd.

Subject: Concerning the temporary reconversion of lands and equipments.

As to the subject matter, it was decided through the consideration of the Committee for the Disposal of Goods Turned Over from the Allied Forces (Tokushubukken Shori Iinkai) to entrust your company with the reconversion and temporary usage of the equipments in the annexed paper on the following conditions, on the details of which your consultation with the Osaka Financial Bureau (Osaka Zaimukyoku) is requested.

Chief, State Property Bureau,
Finance Ministry.

Conditions

1) The decision is only to entrust you temporarily with the usage of land, buildings, instruments and equipments, and the final disposition is reserved undecided.

Consequently, some other qualified personnel may be selected after thorough investigation with considerations paid to the results of your utilization of these assets hereafter.

2) The decision is only for the outline of the usage, on the details of which it should be decided as suited to the actual conditions of the place.

3) In view of the emergency conditions of pressing food supply or of the relief of war victims, no objection should be filed from your side if the land or buildings are used for agricultural purpose or for housing those war victims during winter if there is room to spare.

4) This decision may be cancelled or partly changed pending to circumstances on the part of the Allied Forces.

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ANNEX

NAME	LOCATION	MATTERS USED & QUANTITY	%	PURPOSE	PERIOD OF USAGE	WITH OR WITHOUT PAYMENT	PERSONNEL ENTRUSTED
Ex- Uji Factory of the Tokyo Second Military Arsenal	Higashi-Uji-Cho, Uji-Gun, Kyoto Prefecture	Part of Land, Buildings, & Equipments		Manufacture of Raw Materials			Nippon Nitrogenous Fertilizer Mfg.Co.,Ltd.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 715 013

(23)

Serial No. of Report

APPLICATION FOR OPERATION OF
AND
REPORT ON INDUSTRIAL FACILITIES

TO: C.G., I Corps
THRU: CO. 107th M.G. Group

Name and Address of Reporting Unit

see Annex I, "Remarks"

9 March, 1946
Date

1. Name of Facility
   Head Office: Nippon Chisso Hiryo Kabushiki Kaisha (Japan Nitrogenous Fertilizer Co., Ltd.)
   Plant: Nippon Chisso Hiryo Kabushiki Kaisha Uji Seizosho (Uji Factory of Japan Nitrogenous Fertilizer Co., Ltd.)
   Ex - Tokyo Daini Rikugun Zoheisho, Uji Seizosho (Ex - Uji Factory of the Tokyo Second Military Arsenal)

2. Location
   Head Office: 1, Soze-cho, Kitaku, Osaka, Japan.
   Plant: Higashi-Uji-cho, Uji-gun, Kyoto Prefecture.

3. Name of President or Manager
   Naosaburo Enami (President)
   Kiichi Yoshioka (Chief of Department of Operation)
   Yutaka Yamada (Director of Uji Factory)

4. History
   1) Uji Factory:
      a) Date of construction: 1895 (as a military arsenal)
      b) Date of first operation: 1895 (as a military arsenal)
      c) 1935 - 1941 Production (Annual value in Yen; quantities of principal products by units or weights.)
         see Table I.
      d) Present Capitalization in Yen.
         None. (as a military arsenal).
      e) Changes made in capital structure since 1935.
         None (as a military arsenal).
      f) Name and address of parent company.
         None (as a military arsenal).
      g) Number of shares outstanding
         None (as a military arsenal).
      h) Number stockholders.
         None (as a military arsenal).

Ind #3

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i) Funds received from Government.
None (as a military arsenal)

j) On reverse side give outline sketch of plant layout with approximate dimensions.
see Drawing I.

ii) Japan Nitrogenous Fertilizer Co.,Ltd.

a) Date of foundation: 1902

b) Date of first operation: 1902

c) 1935 - 1941 Production (Annual value in Yen; quantities of principal products by units or weights.)
see Table II.

d) Present capitalization in Yen:

Nominal	¥450,000,000
paid up	¥350,000,000

e) Changes made in capital structure since 1935:

Capital (authorige)

¥ 90,000,000	on 25th June, 1931
¥200,000,000	on 23rd April, 1937
¥450,000,000	on 26th Dec., 1941
¥450,000,000	on 24th Sept., 1941

f) Name and address of parent company:
None.

g) Number of shares outstanding
9,000,000 shares

h) Number of stockholders (Give names of those owning 10% or more of total)
30,036
There are none, who own 10% or more stocks of total.

i) Funds received from Government (Bounties, subsidies,etc.)
None.

5. Description

a) Principal Products (of the Uji Factory)

1. Wartime (as a military arsenal)
see Table III.

2. At present.
None.

3. Planned for 1946 - 1947.
see Table IV.

b) Capacity

1. Wartime (as a military arsenal)
see Table III.

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2. At present
see above mentioned (5.a.2.)

3. 1946 - 47 (with unrestricted access to materials)
see Table IV.

c) Number of Employees

1. Wartime (as a military arsenal)
4,682

2. At present
300

3. 1946 - 47 (at maximum capacity)

Clerks and Engineers	330
Workers	3,320
Sum total	3,650

The most talented and skillful clerks and engineers will soon be back here from our other factories in Korea.

6. Machinery and Equipment in Plant
see Table V.

7. Present Stocks of Raw Materials, Supplies and Unfinished Goods.

Large stocks of raw materials, supplies and unfinished goods which were captured by occupation forces soon after the surrender of Japan, are now being returned back to the Home Ministry, and carried outside the factory, so details are unknow.

8. Present Stocks of Finished Goods.
None.

9. Present Stocks of Fuel.
None.

10. Machinery and Equipment needed for maximum production 1946 - 47.
see Table VI.

11. Raw materials & supplies needed (monthly)

a) For Present Capacity (5.b.2 above) (as a military arsenal)
None.

b) For Maximum (5.b.3. above)
see Table VII.

12. Fuel needed (monthly) (Do not include present stocks)

Description	Quantity
Coal	3,000 tons
Coke	300 tons

13. Additional Personnel needed (Not locally available)
None.

14. Prices (Give current selling prices in Yen of principal products)
see Table VIII.

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15. Remarks see Annex I.

16 Certification by applicant

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

Signed Naosaburo Inaba

President of Japan Nitrogenous Fertilizer Co., Ltd.

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TABLE I

Productions during 1935 - 1941
(as a military arsenal)

Descriptions	Yearly output in tonnage						
	1935	1936	1937	1938	1939	1940	1941
Single base smokeless powder	250	240	870	2,960	2,960	3,380	2,030
T.N.T.	200	180	150	5,100	4,390	4,000	3,860
Picric acid	30	30	670	3,410	2,000	2,950	2,540
Trinitro phenetole	-	-	-	-	270	1,300	2,060
Hexogen	-	-	240	440	250	6	170
Dinitro-Naphthalene	54	50	20	20	20	30	30
Coal mine explosives	450	350	700	1,540	1,700	1,830	1,891
"Anga" explosive (NH_4NO_3 base)	-	-	1,350	2,560	1,130	580	1,492

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TABLE II

Factories and their Principal Products

1) Minamata Factories

Hama Minamatachi, Ashikitagun, Kumamoto Prefecture.

main products and their value

Description	Value 1935	1940	1943
Sulphate of Ammonia	¥4,641,097.28	¥3,466,673.76	¥6,331,640.58
Dilute Nitric acid	1,276,498.52	837,989.97	510,231.77
Conc. Nitric acid	967,758.30	1,802,253.45	3,575,542.15
Acetic acid	1,967,140.46	2,774,054.00	3,601,623.59
Aceton	-	2,419,492.63	3,920,598.43
Cellulose Acitate	-	1,025,566.31	1,515,033.49

Miscellaneous products, containing Acryl resine, Vinyl-Chloride resine, Vinyl acetate resine, Acetate silk and staple-fiber, Rubber medicals etc. values of them are uncertain.

2) Konan Factory

a) Fertilizer Department

Konanri Konanfu, Kankyonando, Korea.

main products and their value.

Description	Value 1942	1943	1944
Sulphate of Ammonia	¥54,517,672.64	¥79,596,915.17	¥84,994,023.64
Ammo-phos-sulphate	11,250,650.69	9,782,825.52	6,277,491.59
Glycerine	2,090,476.67	2,031,756.82	936,587.48
Stearine	373,919.66	797,321.46	265,010.70
Bath Soap	2,730,532.78	941,625.22	268,004.44
Wash Soap	4,537,152.87	7,070,483.88	1,761,879.94
Ammonium Phosphate	521,224.22	-	-
Mixed Fertilizer	5,329,065.26	-	-
Candle	2,425,903.76	826,713.28	539,927.27
etc.			

b) Metallic Department

Konanri, Konanfu, Kankyonando, Korea.

Principal products and their values.

Descriptions	Values 1942	1943	1944
Metallic Zinc	¥1,736,723.06	¥2,146,579.66	¥ 969,313.90
Carbon electrode	594,107.82	2,286,735.43	2,240,611.22
Arc carbon	780,257.13	896,394.18	790,216.36
Aluminium metal	4,736,672.87	10,797,743.11	11,728,317.32
etc.			

c) Hongu Department

Unjori, Konanfu, Kankyonando, Koren.

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Principal products and their value.

Description	Value 1941	1942	1943
Ammonia	¥3,359,091.00	¥1,943,247.00	¥2,177,970.30
Carbide	6,514,027.09	8,845,980.26	6,811,748.38
Lime Nitrogen	1,933,705.23	1,988,247.64	1,797,085.14
Amm-Chloride	611,825.06	746,209.18	834,575.75
Caustic Soda	2,221,179.12	2,061,665.59	2,411,900.96
Hydrochloric acid	1,019,920.56	1,131,698.91	916,352.71
Bleaching Powder	1,257,992.18	870,988.15	1,023,724.11
Acethlen Black	918,706.90	1,558,935.35	2,037,229.20
Alundum	1,036,349.85	-	-
Ethylene Glycole	717,372.41	672,090.44	771,348.00
Acetone	-	256,356.72	1,123,603.53
etc.			

3) Yeian Factory
500, Sankyodo, Seiman, Heisengun, Kankyohokudo, Korea.

Principal Products and their value.

Description	value 1942	1943	1944
Hexamethylen tetramine	¥944,976.00	¥1,466,652.16	¥1,516,946.69
Phenolic Laminated-plate	512,032.27	7,970,238.18	11,105,479.49

4) Seisui Factory
Seisuiyu Sakushugun, Heianhokudo, Korea.
Principal products and their value.

Description	Value 1942	1943	1944
Acetylen Black	-	-	¥1,273,726.24

5) Nara Factory
Minami Kyobatecho, Nara.
Under construction to make commutator brush.

6) Mie Factory
1st Department Matsusakashi, Mie prefecture.
2nd Department Morimura, Iinamigun, Mie Prefecture.
Under construction to make veneer single.

7) Shiki Pottery
Shikimura Amakusagun, Kumamoto Prefecture.
Main products and their value
Porcelain bottle for nitric acid.
Value of it is uncertain.

Note: All Factories and Powder plant attached to them in Korea were captured immediately after the Japanese surrender.

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TABLE III

Principal Products during war.
(as a military arsenal)

Description	Yearly output in tonnage			
	1942	1943	1944	1945
Single base smokeless powder	4,213	3,982	3,625	310
Picric acid	4,234	2,777	4,545	784
T. N. T.	3,024	3,881	3,451	520
Trinitro phenetole	3,046	2,008	1,472	78
Hexogen	369	440	242	3
Anga explosive	0	0	0	0
Coal mine explosive	1,925	1,835	337	0

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TABLE IV

The plan of production & the capacity
(1946 - 47)

During this period, we shall start manufacturing according to the following items.

1) Goods which are most urgently demanded by essential consumers.

2) Goods which are most easily set about manufacturing.

3) Goods which would be manufactured by bringing and utilizing the excess machinery and equipments from our other factories suchas Minamata Factory, Nobeoka factory, Kanzaki medical plant and so on.

The commodities manufactured according to the above items are as follows.

Name of commodities	Annual quantity of production	Notes
Saccharin	240 tons	Chemically sweet foodstuff.
Chlorsulphonic acid	2,500 tons	raw material for saccharin and other medicines.
Oleum sulphonic acid (small scale for own use)	3,600 tons	ibid.
Seasoning (solid)	25 tons	
Acetoacetic ester	22 tons	raw material for vitamin and other medicines.
Medicine for malnutritions	120 tons	name is undecided, but it is manufactured in our laboratory.
Merculi chrom	6 tons	disinfectant.
Sulphaguanidine	24 tons	Medicine for an intestinal disease.
Chiantol	36 tons	Medicine for a skin disease.
Kuttin	100 tons	ibid
Seasoning (liquid)	50 tons	
Acetyl staple fibre & silk) Vinyl chlorid fibre	60 tons	
Acetyl cellulose molding	60 tons	
Rubber chemicals	120 tons	rubber improving material.

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TABLE V

General Description of Machinery
and Equipment and Plant

a) Factory lot: 1,061,537 sq.meters
b) Floor space: 121,256 sq.meters
c) Main Plant: as follows

1. Oleum sulphuric acid plant (under construction)
   a) Capacity: 300 tons monthly
   b) Main Machineries and equipments: as follows.

Description	Quantities
Sulphur melting tank	1
Sulphur melting furnace	1
Sulphur burning furnace	1
Converter	2 in seris
Gas Cooler	4
Absorbing tower	3
Miscellaneous	various kinds

Note: We intend to continue its construction and to manufacture oleum for the raw material of chlorsulphonic acid and tar intermediates for dystuffs, medicals, plasticizers, and soon.

2. Nitric acid plant
   a) Capacity: 250 tons monthly.
   b) Main Machineries and equipments: as follows

Description	Quantities
Ammonia evaporator	1
Heat exchanger	3
Convertor (oxidizer)	11
Gas cooler	2
Absorbing tower (Ni-cr made)	3
Absorbing tower (stone made)	1
Blower and exhauster	4
Centrifugal pump	11
Tanks	11
Nitric acid concentrating tower	12
Cooler	19
Acid cooler	2
Centrifugal pump	12
Tanks	33
Sulphuric acid concentrating Kettle	25
Acid cooler	24
Centrifugal pump	7
Tanks	21
Miscellaneous	various types

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Note: Above mentioned equipments include liquid ammonia storage tank, ammoniacal water storage tanks, concentrating equipments of dilute nitric and sulphuric acid, and other anxiliary equipments.

We intend to continue its productions for the raw material of nitro-cotton, tar nitermediates for dystuffs and so forth.

3. Nitro-cotton plant

a) Capacity: 275 tons monthly

b) Main machinery and equipments: as follows.

Descriptions		Quantities
Tanks made of iron		23
Tanks made of aluminium		5
Centrifugal pump		8
Nash's pump		1
Paper cutter		4
Waste thread cutter		2
Cotton scratcher		3
Cotton drier		2
Exhauster		1
Nitrator	Thomson's type	73
Nitrator	Centrifugal type	21
Boiling Vat		84
Beater		12
Refiner		28
Filter of various types		10
Alcoholizing press		6
Hydraulic pump		6
Accumulator		5
Centrifugal pump		8
Blender of Nitro-cotton		2
Ammonia compresser		9
Centrifugal pump		8
Water cooler		2
Miscellaneous		various kinds

Note: Above mentioned equipments include acid mixing, cotton refining, Nitrating, refining, and refrigerating equipments.

We intend to use centrifugal type Nitrator only and to nitrate cotton for the raw material for celluloid, laquor and artificial leather, and so on, and other equipments suchas acid mixing, cotton refining, refrigerating and miscellaneous auxiliary equipments are used as before.

We estimate that the Capacity of this plant will have 400tons of nitro-cotton if we improve them.

Thomson's nitrater are not used by us.

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4. T.N.T. Plant
   a) Capacity: 350 tons monthly
   b) Main machineries and equipments: as follows

Descriptions	Quantities
Nitrater	15
Mixing Machine (dissolver)	3
Centrifugal pump	10
Tanks	35
Washer	7
Centrifuge	2
Exhanster	2
Remelting tank	2
Miscellaneous	various kinds

Note: We are planning to convert this plant to make medicals, such as, aspirine, Acetanilide from benzene and Sulphamide derivatives, using Nitrators, dissolvers, remelting tanks, and other Auxiliaries, The shortage in equipments and machineries will be filled up from other plants or newly made.

5. Picric acid plant
   a) Capacity: 200 tons monthly
   b) Main machineries and equipments: as follows

Descriptions	Quantities
Saponificator	14
Acid tank	31
Centrifuge	21
Washing Vessel	27
Melting tank	11
Nitrator	16
Aluminium tank	11
Iron tank	37
Lead tank	2
Blower and exhauster	6
Centrifugal pump	46
Miscellaneous	various kinds

Note: This plant is divided in two series, the first, we are planning to convert it to manufacture various dystuffs from tar intermediates, the second, as a plasticizer plant, using machineries or equipments above mentioned, manufacturing phthalic anhydride, dimethly, diethyl, and dibutyl phthalate and soon as plasticizers for celluloid, Laquers, artificial leather, and acetate plasties etc. of our own made.

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6. Trinitro phenetole plant
   a) Capacity: 200 tons monthly.
   b) Main machineries and equipments: as follows.

Descriptions	Quantities
Saponificator	5
Refiner	18
Nitrator	6
Iron tank	26
Aluminium tank	1
Melting vessel	7
Wooden Vat	2
Lead tank	2
Centrifugal pump	11
Washington's pump	1
Vacuum pump	3
Air compresser	5
Blower and exhauster	3
Centrifuge	1
Crystallizer	4
Miscellaneous	various kinds

Note: We are planning to convert this plant into polyvinyl alcohol derivatives, using machineries or equipments above mentioned. The shertage in equipments or machineries will be filled up from other plants or made newly.

7. Auxiliary plants for high explosives
   a) Capacities: uncertain
   b) Main machineries and equipments: as follows

Descriptions	Quantities
Acid Mixing plant	
Iron tank	30
Acid tank	1
Aluminium tank	7
Vacuum tank	3
Centrifugal pump	15
Waste gas absorbing plant	
Absorbing tower (stone made)	2
Absorbing tower (Ni-Cr-made)	4

Note: We intend to use them for the same purposes in new plan to manufacture nitro derivatives as raw materials for medicals, dystuffs, etc.

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8. Dinitro naphthalene and the like plant
   a) Capacities: total about 30 tons monthly
   b) Main machineries and equipments: as follows

Descriptions	Quantities
Nitrator	6
Sulphonator	1
Centrifugal pump	7
Exhauster or Blower	3
Centrifuge	3
Refiner	3
Still	2
Melting device	2
Tanks	21
Miscellaneous	various kinds

Note: We intend to convert these plants to make Nitro-naphthalene, plasticizers, and Chemicals for the purpose of the raw materials in our Factory, using these machineries and equipments above mentioned.

Formerly, these plant were used to manufacture dinitro-naphthalene, Tetranitro methly aniline, and tetra-nitro-penta-erythrite.

9. Ammonium Nitrate Plant
   a) Capacity: uncertain
   b) Main Machineries and equipments: as follows

Description	Quantities
Neutralizer	2
Aluminium tank	1
Acid tank	5
Crystallizer	2
Ammonia evapovator	1
Iron tank	1
Vacuum pump	1
Centrifugal pump	3
Blower	1

Note: We intend to continue to make ammonium Nitrate for coal mine explosives, if permitted. If not so, we intend to manufacture phthalic anhydride in this building as raw material of plasticizer. At this time, the equipments are newly constructed.

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10. Smokeless powder plant
a) Capacity: 275 tons monthly
b) Main machineries and equipments: as follows

Descriptions	Quantities
Kneader	22
Press - filter (shaper)	6
Roller	6
Drying equipments	16
Solvent recovery equipments	4
Refrigerating units	7
Small other equipments	many sets of
For gunpowder manufacture	various kinds
Misdellaneous	various kinds

Note: We intend to convert the main part of this plant to manufacture celluloid using kneaders, press filters (formerly used as shapers for ribbon shaped ~~fffs~~ powder), rollers, drying equipments, solvent recovery equipmtns, and others, and also to manufacture cellulose acetate staple fiber or silk, mainly using solvent recovery equipments, and cellulose acetate plastics, using buildings.

The shortage in equipments or machineries are filled up from other factories of ours or newly constructed.

11. Ether Plant
a) Capacity: 150 tons monthly
b) Main machineries and equipments: as follows

Descriptions	Quantities
Reaction Vessel	2
Still	4
Miscellaneous	various kinds

Note: We intend to continue the production of ether for solvent for medicals.

12. Ammonium Nitrate explosive Plant
a) Capacity: 150 tons monthly
b) Main machineries and equipments: as follows

Descriptions	Quantities
Crusher	1
Edgerunner	16
Mixer	9
Melting device	2
Disintegrater	1
Dissolver	3

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Refrigerator	1
Miscellaneous	various kinds

Note: We are planning to manufacture artificial leather, using this building with air conditioning device, and also we intend to continue to manufacture Ammonium nitrate explosives as coal mine explosives if permitted, at this time artificial leather plant will be planned some-where on smokeless powder plant.

13. Hexogen plant
    a) Capacity: 25 tons monthly
    b) Main machineries and equipments: as follows

Descriptions	Quantities
Nitrator	2 in series
Vacuum filter	6
Dilution tank	1
Vacuum tank	6
Acid tank	10
Iron tank	5
Mist catcher	1
Stirrer	4
Gas cooler	2
Ice Crusher	1
Exhauste fan	2
Absorbing tower	6
Decomposing tower	2
Bleaching tower	1
Crusher	1
Refrigerating device	4
Vacuum pump	4
Centrifugal pump	16
Refining Vessel	8
Centrifuge	2
Wooden Vat	1

Note: We intend to convent this plant as a Saccharine plant, using Nitrators as Chlosulphonator, refining vessels as Amidator, oxidation and parifining equipments.
As for the waste acid decomposing equipments, we have no use of them.

14. Shaping Plant for high explosives
    a) Capacity: uncertain
    b) Main machineries and equipments: as follows

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Descriptions	Quantities
Melting device	4
Drier	10
Exhauster and Blower	5
Hydraulic pump	1
Mixer	2
Granulating machine	1
Waxing device	2
Paper cutter	3
Balances of various kind	13
Screw press	25
Miscellaneous	various kind

Note: We make no use of them except balances, we only need buildings of this plant to make synthetic corundum, arc carbon, and commutator brushes.

15. Steam Stations

Machineries		
Bab-cock type boiler	200 HP	6
	100 HP	2
	250 HP	5
Cornish type boiler	100 HP	2
	50 HP	6
	25 HP	3
Lancashire type boiler	164 HP	2
Takuma type boiler	320 HP	4

Note: We intend to use them as before.

16. Electric Sub-station

Main transformer	2,000 K.V.A single	4
	350 K.V.A single	4
Diesel Generator	600 K.V.A	1

Note: The same as No. 15.

17. Water supply station

Main machineries as follows:

Centrifugal pump	3.1 M^3/m	2
	3.3 "	2
	5.0 "	1
	88.8 l/m	1
	300 T/hr	5
	2 "	2
	3 "	1
Plunger pump (?)	150 "	1

Note: We intend to use them as before.

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18. Repair shop

Main machineries as follows:

Lathe	4 ft.	7
	6 ft.	4
	8 ft.	5
	10 ft.	1
	12 ft.	3
	16 ft.	1
Screw lathe		1
Planer	4 ft.	1
	6 ft.	2
	8 ft.	1
Shaper	24"	1
	18"	1
	-	1
Milling machine	9" x 38"	1
	10" x 44"	1
Vertical milling machine	10" x 28"	1
Drilling machine	2" Dia	1
	16"	1
	46"	1
	22"	1
	20"	1
Sawing machine	-	1
Slotter	8"	1
	-	1
Grinding machine	16"	1
	24"	1
	-	1
Electric welding machine of various capacity		15
Hammer	1/4 ton	1
Drop hammer	-	1
Furnace		2
Cupola	500 kg/hr	3
	1,500 "	1
Bending roller		1

Note: We intend to use this shop as a repair shop as before.

19. Acid receiving facility

Tanks (iron made) for various purposes		40
Tanks (Aluminium made)		10
Centrifugal pump		7

20. Miscellaneous

Crane	10 tons	1
Truck		13
Motor car		3
etc.		

21. Laboratory, Lodgings etc.

Details uncertain

- the end -

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TABLE VI

Machinery and Equipment needed for maximum production 1946 - 47.

Description	Quantity	Remarks
Toluene tank	2	for Saccharin
Reaction vessel	6	
Ice-water vessel	2	
Centrifuger	4	
Refrigiating machine	2	
Amidation tank	2	
Sedimentation vessel	2	
Oxidation tank	12	
Filter press	1	
Pump	1	
Wooden tank	12	
Distiller	2	
Crystalizing tank	2	
Vacuum pump	1	
Gear pump	2	
Turbin pump	2	
Exhauster	2	
Tank	4	
Sulphur burner	1	for Chlorsulphonic acid
Preheater	2	
Reactor	1	
Gas cooler	1	
Mist-seperator	2	
Absorber	3	
Driser	2	
Sulphonic acid tank	1	
Mixer	1	
Blower	2	
Pump	5	
Motor	3	
Water Gas generator	1	
Drying tower	2	
Condenser	2	
Tank	2	

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Description	Quantity	Remarks
Pulveriser	4	for Seasoning (solid)
Mixer	1	
Decomposing vessel	1	(liquid)
Neutrlizer	1	
Pump	1	
Motor	1	
Tank	2	
Tank	1	for Acetoacetic ester
Reaction vessel	3	
Destiller	5	
Stirer	4	
Evaporator	3	
Centrifuger	1	
Filter	1	
Vacuum pump	2	
Motor	5	
Flask	10	for Marcuro Chlom
Nutze	5	
Vacuum flask	10	
Water bath	10	
Vacuum pump	2	
Motor	2	
Extractor	1	for Medicine for malnutritions
Magnetic seperator	1	
Pulverizor	1	
Lixiviation tank	1	
Washer	1	
Saponification vessel	1	
Filter	1	
Extractor	2	for Sulphaguanidine
Filter	4	
Vacuum destiller	2	
Centrifuger	8	
Drier	2	
Blower	3	
Exhauster	1	

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Description	Quantity	Remarks
Filter press	1	
Drier	1	
Vacuum pump	4	
Refrigiator	2	
Motor	16	
Reaction vessel	2	for Chiantol
Washer	1	
Gear pump	1	
Destill	1	
Vacuum pump	1	
Motor	3	
Sulphur burner	1	for Oleum
Cooler	3	
Absorber	2	
Air filter	1	
Air drier	1	
Filter	1	
Oxidator	2	
Tank	3	
Pump	4	
Fan	2	
Sulphuric acid tank	1	for Kuhtin
Methyl alcohol tank	1	
Methylation vessel	1	
Centrifuger	1	
Drier	1	
Pulverizer	1	
Kneader	1	
Bleaching vessel	1	for Acetyl cellulose molding Acetyl Staple fibre
Dehydrator	2	
Drier	2	
Pretreator	2	
Acetylation vessel	3	
Ripening vessel	18	
Precipitator	4	
Bronze netting	12	
Nozzle	120	

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Description	Quantity	Remarks
Spinning board	120	
Centrifuger	2	
Pump	5	
Destiller	12	
Sulphuric acid tank	1	for Vinyl chloride fibre
Hydrochloric acid tank	1	
Hydrochloric acid generator	1	
Acetylene tank	1	
Mixer	2	
Preheater	2	
Reaction tower	2	
Condenser	2	
Fractional destiller	1	
Purifier	1	
Palymerisation vessel	1	
Precipitator	1	
Centrifuger	1	
Drier	1	
Pulverizer	1	
Disolution tank	2	
Spinning machine	50	
Adsorbing tower	4	
Defoamer	3	
Filter	5	
Filter press	3	
Butylaldehyde tank	1	for Organic rubber chemicals Butyl aldehyde aniline
Acetic acid tank	1	
Condensating vessel	1	
Washer	1	
Drier	1	
Acetoaldehyde tank	1	Acetoaldehyde Ammonium
Filter	1	
Drier	1	
Refrigiator	1	
Acetoaldehyde tank	1	Aldol-alpha naphtylamine
Condensator	1	
Aceton tank	1	
Drier	3	
Dehydrator	1	
Pulverizer	1	
Centriguger	1	

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TABLE VII

Raw materials and supplies needed (monthly) for maximum

Description	Quantity (monthly required)	Remarks
Toluene	52,000 Kg	Saccharin
Chlorsulphonic acid	260,000	
liq. Ammonia 20%	134,000	
Alcohol	117,000	
Potasium permanganate	46,000	
Caustic soda 40%	12,000	
Sulphuric aicd	12,000	
Sodiumbycarbonate	15,000	
Oleum	940,000	Chlorsulphonic acid
Chlorine	62,400	
Sulphur	217,800	Oleum
Catalyser V2 05	3,500	
Sodium glutaminate	105	Seasoning (solid)
Saccharin	945	
Dulcine	945	
Vitamin	105	
Ethyl aretate	6,300	Acetoacetic ester
Metallic Sodium	720	
Acetic acid 48%	3,240	
Sodium chloride	2,340	
Sodium sulphate	1,260	
Soda ash	126	

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Description	Quantity	Remarks
	kg.	
Glue	12,000	Medicine for malnutrition
Hydrochloric acid 7%	1,200,000	
Resorcine	2.5	Mercurochlom
Phthalic anlydride	2.1	
Bromine	1.8	
Glacial acetic acid	7.0	
Mercurric oxide	3.0	
Caustic soda	0.9	
Lime nitrogen	22,000	Sulphaguamidine
Ammonium chloride	2,800	
Acetanilide	6,800	
Chlorsulphonic acid	29,400	
Caustic soda	3,200	
Acetone	11,400	
Hydrochloric acid	6,800	
Active carbon	400	
Toluene	6,300	Chiantol
Sulphur	3,000	(Mitigal) Dimethyl diphenylendisulfid
Salicylic acid	7,500	Fuhtin
Methyl alcohol	1,700	Salicylic acid methylester
Sulphuric acid	5,400	

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Description	Quantity	Remarks
	kg.	
Soya Bean	840	Seasoning liquid
Wheat	756	
Sodium chloride	630	
Liuter refined	4,000	Acetyl staple fibre
Acetic acid over 99%	16,500	
Acetic anlydride over 97%	10,000	
Sulphuric acid 98%	325	
liq. Chlorine	300	
Caustic soda	250	
Sodium sulphite	40	
Oxalic acid	20	
Ammonia 99.9%	25	
Calcium chloride	200	
Acetone	4,500	
Carbide	13,500	Vinyl chloride fibre
Hydoschloric acid 35%	16,000	
Canstic soda	1,000	
Alcolhol 94%	200	
liq. Ammonia	25	
Active carbon	150	
Conosive sublimate	25	
Ferric sulphate	1.5	
Potassium chloride	15	
Hydrogen per oxide	185	
Alumimium sulphate	125	
Vinyl acetate	900	

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Description	Quantity	Remarks
conc. Sulphuric acid 95%	55,000 Kg	Vinyl chloride fibre
Acetone	3,500	
Benzene	1,225	
Triethanol amine	75	
Acetyle cellulose	3,500	Acetyle cellulose
Dimethyl	1,000	monlding
Triphengl phosphate	205	
Titan white	450	
Denatured alcohol	3,500	
Butyl aldelcyde	1,600	Rufber Chemicals
Auiline	800	a) Butyl aldehyde aniline
Acetic acid	12	
liq. Ammconia	1,440	b) Acetaldehyde ammonia
Acetaldehyde	3,400	
Lime	200	
Alpha-Naphthylamine	3,400	c) Alsol-dlpha-naphthylamine
Acetone	2,000	
Acetaldehyde	2,400	
Oxalic acid	40	

--- End ---

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TABLE VIII

Current Selling Prices in Yen of Principal Products

Description	Unit	Price
Saccharin	500 g	34.00
Chlorsulphonic acid	1 Kg	1.80
Seasoning (solid)	10 g	15.00
Acetoacetic ester	1 Kg	12.10
Medicine for malnutritions		undecided
Mercuro chlom		
(2% solution)	1 Kg	38.40
(Powder)	1 Kg	839.33
Sulphaguadinine	1 Kg	409.60
Chiantol	25 g	3.00
Kuhtin	25 g	3.56
Seasoning (liquid)		undecided
Acetyl staple fibre		
(for film)	1 ton	69,910.00
(for painting)	1 ton	55,110.00
Uingl chloride fibre	1 Kg	10.00
Acetyl cellulose molding		undecided
Organic rubber chemicals		
Butyl aldehyde aniline	1 Kg	18.96
Acetoaldehyde ammonium	1 Kg	4.50
Aldol-alpha naphtylamine	1 Kg	10.12