

775013

List of Plant Manufacturing Machine Tools

DATE 4 JULY 194

CODE NO. 13-84

NAME OF PLANT: K.K. KUBOTA TEKKOSHO, MUKO

LOCALITY OF PLANT: ~~1436~~ NISHIAZA SHINKAI, AMAGASAKI
1396 HYŌGO PRET

775013

of Plant Manufacturing Machine Tools

DATE 4 JULY 1947.

CODE NO. 13-84

PLANT: K.K. KUBOTA TEKKOSHO, MUKOGAWA PLANT.

PLANT: ~~1436~~ NISHIAZA SHINKAI, AMAGASAKI CITY,
1396 HYŌGO PREFECTURE.

BORING MACHINES

CLASSIFICATION AND SPECIFICATIONS

1	2	3	4	5	6	7	8	9	M
Inventory Code No.	Type	Sub-Type	Dimensions of Boring Bar mm	Maximum Elevation Spindle Center to Table Surface in mm	Table Dimensions (Length and Width or Diameter) in mm	Table Feed (Length and Cross) in mm	Swing Diameter	Maker's Name	S
IAI-1	Horizontal Boring, Drilling and Milling Machine	Special	100Φ	870 920	L 1390 W 840	L 1.760 C 1.100	—	Kubota I.W.	
IAI-2	"	"	100Φ	870 920	L 1390 W 840	L 1.760 C 1.100	—	"	
IAI-3	"	Special purpose Type	50Φ	Spindle Center to Bed Surface 1650	No Table		—	"	
IAI-4	"	Special purpose Type	102Φ	Spindle Center to Bed Surface 1830	No Table Floor Plate 1.830 2.740	Horizontal Travel of Saddle 1.830	—	Osaka KIKO K.K.	
IAI-5	"	Special purpose Type	102Φ	Spindle Center to Bed Surface 1830	No Table Floor Plate 1.830 2.740	Horizontal Travel of Saddle 1.830	—	"	
IAI-6	"	Special	75Φ		No Table		—	Kubota I.W.	
IAI-7	Vertical	Vertical Turret Lathe		800	Table dia 610Φ		Swing with side head 675	Osaka KIKO K.K.	
IAI-8	"	Vertical Turret Lathe		800	Table dia 610Φ		Swing with side head 675	"	

KUB

BORING MACHINES

DATE JULY 4. 1947 no. 199

CLASSIFICATION AND SPECIFICATIONS

6	7	8	9	10	11	12	13	14	15
Overall Dimensions (Length, Width or Diameter) in mm	Table Feed (Length and Cross) in mm	Swing Diameter	Maker's Name	Model No. and Serial No.	Year of Manufacture	Weight in Kgs	Overall Dimensions L - cm W - cm H - cm	Motor Drive Voltage and Cycles and Horse-power	Remarks
390 840	L 1.760 C 1.100	-	Kubota I.W.		1943	10.500	454 253 261	I.M.D. 220V. 60~ 10HP.	
390 840	L 1.760 C 1.100	-	"		1943	10.500	454 253 261	I.M.D. 220V. 60~ 10HP.	
able		-	"		1919	4.000	245 240 300	I.M.D. 220V. 60~ 3HP.	
able Plate 300	Horizontal Travel of saddle 1.830	-	Osaka KIKO K.K.		1940	12.500	335 350 370	I.M.D. 220V. 60~ 7.5HP.	
able Plate 300	Horizontal Travel of saddle 1.830	-	"		1940	12.500	335 350 370	I.M.D. 220V. 60~ 7.5HP.	
able		-	Kubota I.W.		1918	800	180 200 230		
dia φ		Swing with end head 675	Osaka KIKO K.K.		1942	3.900	180 200 260	I.M.D. 220V. 60~ 7.5HP.	
dia φ		Swing with side head 675	"		1942	3.900	180 200 260	I.M.D. 220V. 60~ 7.5HP.	

KUBOTA IRON WORK L.T.D. MUKOGAWA PLANT

DRILLING MACHINES

CLASSIFICATION AND SPECIFICATION

1	2	3	4	5	6	7	8	9	10	11
Inventory Code No.	Type	Sub-Type	Number of Spindles	Distance Face of Column to Center of Spindle in mm	Out Side Dimensions of Tables in mm	Column Diameter in mm	Maximum Distance Spindle to Base in mm	Arm Length	Drilling Capacity in Steel & Cast Iron mm	Diameter of Spindles mm
IA3-1	Sensitive and power Fed Upright	Single Spindle	1	520 310	Table dia 570φ	180φ	1,000	-	25	40
IA3-2	"	"	1	510 320	Table dia 530φ 584	180φ	1,020 1,120	-	38	40 45
IA3-3	"	"	1	400 200	L 480 W 460	Box frame 120x195	580	-	25	25
IA3-4	Radial Drill	"		1,250	Bed Table L 1,150 W 850	270φ	1,260	1,250φ	-	42
IA3-5	"	"		1,554	Bed Table L 1,600 W 920	360φ 350φ	1,600	1,554	in steel 50φ in cast iron 70φ	60

DRILLING MACHINES

No. 2 9 9

SPECIFICATION AND SPECIFICATIONS

	8	9	10	11	12	13	14	15	16	17	18
Number	Maximum Distance Spindle to Base mm	Arm Length	Drilling Capacity in Steel & Cast Iron mm	Diameter of Spindles mm	Makers Name	Model No. and Serial No.	Year of Manufacture	Weight in Kgs	Overall Dimensions L - cm W - cm H - cm	C.S.D or I.M.D - Volts - Cycles - HP	Remarks
φ	1.000	-	25	40	Selson		1918	600	130 200 215	I.M.D. 220V 60~ 1HP	
2	1.020 1.120	-	38	40 45	Yodogawa Kikui	Serial No. 134	1938	1.400 1.350	95 165 245	I.M.D. 220V 60~ 1HP 5HP	
ME	580	-	25	25	Selson		1918	400	65 120 205	I.M.D. 220V 60~ 1HP 2HP	
	1.260	1.250	-	42	Kitchen and Wade	Serial No. 1596	1927	4.500	130 250 250	I.M.D. 220V 60~ 3HP	
	1.670	1.554	in steel 50 φ in cast iron 70 φ	60	Rokutoku Shōtan		1939	3.900 4.061	310 125 275	I.M.D. 220V 60~ 3HP	

GEAR CUTTING AND FINISHING MACHINES

CLASSIFICATION AND SPECIFICATION

1	2	3	4	5	6	7	8	9	10
Inventory Code No.	Type	Sub-Type	Number of Spindles	Maximum Diameter of Work mm	Maximum Width of Work mm	Maximum Diameter of Cutting Tool mm	Types of Gears that Can be made on Machine	Makers Name	Model or Serial No.
IA4-1	Gear Hobbing Machine	Single Spindle	1	1,010 ϕ	305	200ϕ 130 ϕ	Spurgear Herial gear Worm wheel	Kashihugi I. W.	No.
IA4-2	Gear Hobbing Machine	"	1	650 ϕ	230	130 ϕ	"	Kunitomo I. W.	Series 25
IA4-3	Gear Hobbing Machine	"	1	650 ϕ	230	200 ϕ	"	Kunitomo I. W.	Series 25
IA4-4	Gear Hobbing Machine	"	1	1,016 ϕ	406	200 ϕ	"	Karatu I. W.	
IA4-5	Gear Hobbing Machine	"	1	1,010 ϕ	305	200ϕ 130 ϕ	"	Kashihugi I. W.	

R CUTTING AND FINISHING MACHINES

No. 3 9 9

CLASSIFICATION AND SPECIFICATIONS

7	8	9	10	11	12	13	14	15
Maximum Diameter of Cutting Tool mm	Types of Gears that Can be made on Machine	Maker's Name	Model No. and Serial No.	Year of Manufacture	Weight in Kgs	Overall Dimensions L - cm W - cm H - cm	G.S.D or I.M.D - Volts - Cycles - HP	Remarks
200 130 φ	Spurgear Herial gear Worm wheel	Kashihugi I. W.	No. 2	1940	2700 3,613	135 235 225	I.M.D. 220V 60~ 3HP	
130φ	"	Kunitomo I. W.	Serial No 253	1943	2000 1,950	110 210 195	I.M.D. 220V 60~ 2HP	
200φ	"	Kunitomo I. W.	Serial No 254	1943	2000 1,950	110 210 195	I.M.D. 220V 60~ 2HP	
200φ	"	Karatu I. W.		1942	10200 10,160	377 208 286	I.M.D. 220V 60~ 5HP	
200 130 φ	"	Kashihugi I. W.		1940	2700 3,613	135 235 225	I.M.D. 220V 60~ 3HP	

LATHES

CLASSIFICATION AND SPECIFICATION

1	2	3	4	5	6	7	8	9	10	M	S
Inventory Code No.	Type	Sub-Type	Swing Over Ways <small>mm</small>	Swing Over Carriage <small>mm</small>	Round Bar Capacity	Number of Spindles	Length Between Centers <small>mm</small>	Type of Turret and Diameter of Hole	Maker's Name		
IA6-1	Engine Lathe		460	270			870		Kubota I.W.		
IA6-2	Engine Lathe		460	270			870		Kubota I.W.		
IA6-3	Engine Lathe		460	270			870		Kubota I.W.		
IA6-4	Engine Lathe		460	270			870		Kubota I.W.		
IA6-5	Engine Lathe		460	270			870		Kubota I.W.		
IA6-6	Gap Lathe		750	350			1.120		Kubota I.W.		
IA6-7	Gap Lathe		750	350			1.120		Kubota I.W.		
IA6-8	Gap Lathe		750	350			1.120		Kubota I.W.		
IA6-9	Gap Lathe		750	350			1.120		Kubota I.W.		
IA6-10	Gap Lathe		750	350			1.120		Kubota I.W.		
IA6-11	Gap Lathe		750	350			1.120		Kubota I.W.		
	Gap								Kubota		

LATHES

No. 4 2 9

CLASSIFICATION AND SPECIFICATIONS

7	8	9	10	11	12	13	14	15	16
Number of Spindles	Length Between Centers in mm	Type of Turret and Diameter of Hole	Maker's Name	Model No and Serial No.	Year of Manufacture	Weight in KGS	Overall Dimensions L W H cm cm cm	C.S.D or I.M.D - Volts - Cycles - H.P.	Remarks
	870		Kubota I.W.		1939	2,000	240 105 110	I.M.D. 220V 60~ 5HP.	
	870		Kubota I.W.		1939	2,000	240 105 110	I.M.D. 220V 60~ 5HP.	
	870		Kubota I.W.		1939	2,000	240 105 110	I.M.D. 220V 60~ 5HP.	
	870		Kubota I.W.		1939	2,000	240 105 110	I.M.D. 220V 60~ 5HP.	
	870		Kubota I.W.		1939	2,000	240 105 110	I.M.D. 220V 60~ 5HP.	
	1,120		Kubota I.W.		1940	2,500	130 120 160	I.M.D. 220V 60~ 3HP.	
	1,120		Kubota I.W.		1940	2,500	130 120 160	I.M.D. 220V 60~ 3HP.	
	1,120		Kubota I.W.		1940	2,500	130 120 160	I.M.D. 220V 60~ 3HP.	
	1,120		Kubota I.W.		1939	2,500	130 120 160	I.M.D. 220V 60~ 3HP.	
	1,120		Kubota I.W.		1939	2,500	130 120 160	I.M.D. 220V 60~ 3HP.	
	1,120		Kubota I.W.		1939	2,500	130 120 160	I.M.D. 220V 60~ 3HP.	
			Kubota I.W.				130	I.M.D. 220V	

IA6-10	Gap Lathe		750	350			1.120		Kubota I.W.
IA6-11	Gap Lathe		750	350			1.120		Kubota I.W.
IA6-12	Gap Lathe		750	350			1.120		Kubota I.W.
IA6-13	Gap Lathe		750	350			1.120		Kubota I.W.
IA6-14	Gap Lathe		1.400	660			3.300		Kubota I.W. Mo 2
IA6-15	Screw Cutting Lathe		210	120		1	3.300		American Tool
IA6-16	Gap Lathe		930	650			3.100		Takahashi I.W. Se 19
IA6-17	Gap Lathe		1.350	650			3.100		Takahashi I.W. Se 19
IA6-18	Gap Lathe		820	680			1.350		Kubota I.W.
IA6-19	Gap Lathe		520	340			1.750		Kubota I.W.
IA6-20	Gap Lathe		520	260			1.750		Kubota I.W.
IA6-21	Engine Lathe		460	300			1.350		Shimizu I.W.
IA6-22	Gap Lathe		750	350			1.120		Kubota I.W.
IA6-23	Gap Lathe		750	350			1.120		Kubota I.W.
IA6-24	Screw Cutting Lathe			250		1	3.100		Lodge and Shipley 01
IA6-25	Engine Lathe		260	180			580		Kubota I.W.

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	1.120	Kubota I.W.		1939	2.500	130 120 160	I.M.D 220V 60~ 3HP
	1.120	Kubota I.W.		1939	2.500	130 120 160	I.M.D 220V 60~ 3HP
	1.120	Kubota I.W.		1939	2.500	130 120 160	I.M.D 220V 60~ 3HP
	1.120	Kubota I.W.		1939	2.500	130 120 160	I.M.D 220V 60~ 3HP
	3.300	Kubota I.W.	Model No 2012	1942	6.500	570 135 140	I.M.D 220V 60~ 15HP
/	3.300	American Tool		1939	6.000	490 125 135	I.M.D 220V 60~ 7.5HP
	3.100	Takahashi I.W.	Serial No 1429-4	1941	6.000	610 172 144	I.M.D 220V 60~ 10HP
	3.100	Takahashi I.W.	Serial No 1429-3	1941	6.000	610 172 144	I.M.D 220V 60~ 10HP
	1.350	Kubota I.W.		1918	3.000	375 210 180	I.M.D 220V 60~ 2HP
	1.750	Kubota I.W.		1918	1.600	345 180 135	I.M.D 220V 60~ 3HP
	1.750	Kubota I.W.		1918	1.600	300 180 150	I.M.D 220V 60~ 2HP
	1.350	Shimizu I.W.		1918	1.700	270 180 150	I.M.D 220V 60~ 3HP
	1.120	Kubota I.W.		1941	2.500	310 120 160	I.M.D 220V 60~ 3HP
	1.120	Kubota I.W.		1941	2.500	310 120 160	I.M.D 220V 60~ 3HP
/	3.100	Lodge and Shipley	0103316	1938	6.000	510 130 140	I.M.D 220V 60~ 7.5HP
	580	Kubota I.W.		1941	1.000	175 105 130	I.M.D 220V 60~ 2HP

MILLING MACHINES

CLASSIFICATION AND SPECIFICATIONS

1	2	3	4	5	6	7	8	9	10
Inventory Code No.	Type	Sub-Type	Overall Table Size LxW mm	Table Travel Longitudinal Cross and Vertical mm	Number of Spindles	Spindle Taper Number	Diameter of Arbor mm	Center of Spindle to Top of Table mm	Maker's Name
IA7-1	Knee Type Horizontal	Plain Universal Manufacturing	L 110 1340 W 305 310	L 255 710 C 600 305 V 440 483	1	Morse Taper No. 2	25φ	400 515	Osaka Kiko
IA7-2	Knee Type Horizontal	"	L 110 1340 W 305 310	L 255 710 C 600 305 V 440 483	1	Morse Taper No. 2	25φ	400 515	Osaka Kiko
IA7-3	Thread Milling Machine	External		Center distance 3.700	1	Spindle dia 25φ	—	—	J. E. Reinecker
IA7-4	Knee Type Vertical	Standard Vertical Manufacturing	L 1280 W 400	L 220 C 620 V 320	1	Morse Taper No. 3	55φ		Kubota I. W.
IA7-5	Knee Type Vertical	"	L 1120 W 250	L 200 C 580 V 270	1	Morse Taper No. 3	50φ	230	Yashigaki Zuki

ROLLING MACHINES

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CLASSIFICATION AND SPECIFICATIONS

7	8	9	10	11	12	13	14	15	16
Spindle Taper Number	Diameter of Arbor mm	Center of Spindle to Top of Table mm	Maker's Name	Model No. and Serial No.	Year of Manufacture	Weight in Kgs	Overall Dimensions L - cm W - cm H - cm	C.S.D. or I.M.D. - Voltages - Cycles - HP	Remarks.
Morse Taper No. 2	25φ	400 515	Osaka Kiko	No. 2	1940	3580 3,000	115 220 170	I.M.D. 220V 60~ 5HP	
Morse Taper No. 2	25φ	400 515	Osaka Kiko	No. 2	1940	3580 3,000	115 220 170	I.M.D. 220V 60~ 5HP	
Spindle dia 25φ	-	-	J. E. Reinecker		1940	7,000	470 135 140	I.M.D. 220V 60~ 3HP	
Morse Taper No. 3	55φ		Kubota I.W.		1919	4,000	200 170 220	I.M.D. 220V 60~ 3HP	
Morse Taper No. 3	50φ	230	Yashigaka Zaki		1940	4000 3,800	175 140 165	I.M.D. 220V 60~ 5HP	

PLANERS

CLASSIFICATION AND SPECIFICATION

1	2	3	4	5	6	7	8	9	10
Inventory Code NO.	Type	Sub-Type	Number of Heads	Distance Between Housings mm	Maximum Distance Between Plates (Table) and Cross Rail mm	Maximum Stroke mm	Platen or Table Size L - mm W - mm	Maker's Name	Mod No & Seri NO
IA8-1	Open Side		3		1,300	6,100	6,600 1,500	Osaka Kiko	
IA8-2	Double Housing		4	2,550	2,000	12,000	6,500 3,000 2,200	Kubota I.W.	Mod 45C
IA8-3			2	1,290	1,300	3,440	2,690 760	Tagiri I.W.	
IA8-4			4	1,520	1,500	5,000	5,400 1,300	Kubota I.W.	Mod B-3
IA8-5			4	2,800	2,760	4,870	5,500 2,140		
IA8-6			3	920	600	3,660	4,000 770	Osaka Kiko	
IA8-7	Open Side		3	-	1,180	4,000	3,950 830		

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No. 6 of 9

PLANERS

CLASSIFICATION AND SPECIFICATIONS

7	8	9	10	11	12	13	14	15
Maximum Stroke mm	Platen or Table Size L - mm W - mm	Maker's Name	Model No. & Serial No.	Year of Manufacture	Weight in kgs	Overall Dimensions L - cm W - cm H - cm	C.S.D or I.M.D - Volts - Cycles - HP	Remarks
6.100	6.600 1.500	Osaka Kiko		1941	39.500	1520 450 385	I.M.D 220V 60~ 30HP, 5HP, 15HP	
12.000	6.500 2.200	Kubota I.W.	Model No 4EC-625	1943	75.000	2565 578 420	80HP, 60HP 50HP, 4HP, 3HP	
3.440	2.690 760	Tagiri I.W.		1939	8.000	385 275 290	3HP	
5.000	5.400 1.300	Kubota I.W.	Model No B-515	1943	30.000	1100 395 393	25HP, 20HP, 1/4HP	
4.870	5.500 2.140	,		1919	45.000	770 580 520	30HP	
3.660	4.000 770	Osaka Kiko		1940	12.000	790 240 320	15HP	
4.000	3.950 830	,		1940	14.000	630 250 320	I.M.D 220V 60~ 15HP	

SHAPERS AND SLOTTERS

CLASSIFICATION AND SPECIFICATIONS

1	2	3	4	5	6	7	8	9
Inventory Code No.	Type	Sub-Type	Maximum Stroke of Ram mm	Maximum Travel of Tool Head Slide mm	Maximum Work Table Travel Horizontal mm Vertical mm	Work Table Dimensions L mm W mm	Maker's Name	Model No. or Serial
IA9-1	Horizontal Shape		610	200	760 630 350	690 405	Nakagawa Machine Work	
IA9-2	,		610	200	760 630 350	690 405	,	
IA9-3	,		610	200	760 630 350	690 405	,	
IA9-4	,		610	200	760 630 350	690 405	,	
IA9-5	,		610	200	760 630 350	690 405	,	
IA9-6	,		610	200	760 630 350	690 405	Nakagawa Machine Work	
IA9-7	Horizontal Shaper		610	140	640 310	900 660	Cincinnati Shaper	
IA9-8	Vertical Slotter		610	750	670 410	Table Dia 1.400"	Kubota I.W.	
IA9-9	Vertical Slotter		200	330	280 330	Table Dia 650"	Kubota I.W.	
IA9-10	Hack-Saw		Stroke of Saw 152	-	-	Max. dimension of Bar to be cut 203 x 203	Sugimoto I.W.	

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MAPERS AND SLOTTERS

no. 7 9 9

CLASSIFICATION AND SPECIFICATIONS

6	7	8	9	10	11	12	13	14
Maximum Work Table Travel Horizontal mm Vertical mm	Work Table Dimensions L mm W mm	Makers Name	Model No. & Serial No.	Year of Manufacture	Weight in kgs	Over-all Dimensions L - cm W - cm H - cm	C.S.D. or I.M.D. - Volts - Cycles - HP	Remarks
760 630 350	690 405	Nakagawa Machine Work		1940	3.400	245 145 186	I.M.D. 220V 60~ 5HP	
760 630 350	690 405	"		1941	3.400	245 145 186	5HP	
760 630 350	690 405	"		1943	3.400	245 145 186	5HP	
760 630 350	690 405	"		"	3.400	245 145 186	5HP	
760 630 350	690 405	"		"	3.400	245 145 186	5HP	
760 630 350	690 405	Nakagawa Machine Work		1943	3.400	245 145 186	5HP	
640 310	900 660	Cincinnati Shaper		1919	4.500	280 220 190	5HP	
670 410	Table Dia 1.400φ	Kubota I.W.		1918	12.000	360 195 380	7.5HP	
280 330	Table Dia 650φ	Kubota I.W.		1918	3.000	230 140 260	7.5HP	
-	Max. dimension of Bar to be cut 203 x 203	Sugimoto I.W.		1939	950 675	150 660 117	I.M.D. 220V 60~ 1HP	

PRIMARY ELECTRIC POWER TRANSMISSION AND D

Inventory Code No.	Name of Machine	Type	Size or Capacity	Maker's Name	Year of Manufacture
IB1-1	Power Transformer		100 KVA Single Phase PV. 3,300V SV. 220V	Osaka Henatuki K.K.	1941
IB1-2	Power Transformer		100 KVA Single Phase PV. 3,300V SV. 220V	Osaka Henatuki K.K.	1941
IB1-3	Power Transformer		100 KVA Single Phase PV. 3,300V SV. 220V	Osaka Henatuki K.K.	1941
IB2-1	Switch Board			Nishira Kogyo K.K.	1943

POWER TRANSMISSION AND DISTRIBUTION EQUIPMENT

10.8.2.1

Maker's Name	Year of Manufacture	Weight in Kgs	Overall Dimensions L - cm W - cm H - cm	C.S.D. or I.M.D. - Volts - Cycles - HP	Remarks
Osaka Henatuki K.K.	1941	800	90 80 120	60 ~	Serial No 509652
Osaka Henatuki K.K.	1941	800	90 80 120	60 ~	Serial No 506957
Osaka Henatuki K.K.	1941	800	90 80 120	60 ~	Serial No 506956
Nishira Kōgyō K.K.	1943		240 200 80		

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MISCELLANEOUS MACHINERY AND EQUIPM

Inventory Code No.	Name of Machine	Type	Size or Capacity	Maker's Name	Year of Manufacture
III C2-1	Crane	Over Head Travelling	Load 5 kg/ton	Kubota & Higashijima	1943
III C2-2	Crane	Over Head Travelling	Load Main 30 ^{ton} Aux. 10 ^{ton}	Kubota & Nisshin	1943
III C2-3	Crane	Over Head Travelling	Load 10 ^{ton}	Kubota & Higashijima	1943

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MACHINERY AND EQUIPMENT

no. 9 9 9

Qty	Maker's Name	Year of Manufacture	Weight in Kgs	Overall Dimensions L - cm W - cm H - cm	C.S.D or I.M.D - Volts - Cycles - HP	Remarks
1 ton	Kubota & Higashijima	1943	6,500	670 320 350	I.M.D 220V 60~ 10HP 10HP 3HP	
2 ton	Kubota & Nisshin	1943	29,500	1450 430 490	I.M.D 220V 60~ 40HP 20HP 10HP 25HP	
1 ton	Kubota & Higashijima	1943	11,000	1220 340 400	I.M.D 220V 60~ 20HP 15HP 5HP	

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PLANT: K.K. KUBOTA TEKKOSHO MUKOGAWA PLANT

PLANT: ~~1936~~ NISHIAZA SHINKAI, AMAGASAKI CITY,
1396 HYOGO PREFECTURE.

BORING MACHINES

CLASSIFICATION AND SPECIFICATIONS

1	2	3	4	5	6	7	8	9
Inventory Code No.	Type	Sub-Type	Dimensions of Boring Bar mm	Maximum Elevation Spindle Center to Table Surface in mm	Table Dimensions (Length and Width or Diameter) in mm	Table Feed (Length and Cross) in mm	Swing Diameter	Maker's Name
IAI-1	Horizontal Boring, Drilling and Milling Machine	Special	100Φ	870 420	L 1390 W 840	L 1.760 C 1.100		Kubota I.W.
IAI-2	"	"	100Φ	870 420	L 1390 W 840	L 1.760 C 1.100		"
IAI-3	"	Special purpose Type	50Φ	Spindle Center to Bed Surface 1650	No Table			"
IAI-4	"	Special purpose Type	102Φ	Spindle Center to Bed Surface 1830	No Table Floor Plate 1.830 2.740	Horizontal Travel of Saddle 1.830		Osaka KIKO K.K.
IAI-5	"	Special purpose Type	102Φ	Spindle Center to Bed Surface 1830	No Table Floor Plate 1.830 2.740	Horizontal Travel of Saddle 1.830		"
IAI-6	"	Special	75Φ		No Table			Kubota I.W.
IAI-7	Vertical	Vertical Turret Lathe	-	800	Table dia 610Φ	-	Swing with Side Head 675	Osaka KIKO K.K.
IAI-8	"	Vertical Turret Lathe	-	800	Table dia 610Φ	-	Swing with Side Head 675	"

775013

BORING MACHINES

DATE JULY 4, 1947

No. 109

DESCRIPTION AND SPECIFICATIONS

	7	8	9	10	11	12	13	14	15
	Table Feed (Length and Cross) in mm	Swing Diameter	Maker's Name	Model No. and Serial No.	Year of Manufacture	Weight in Kgs	Overall Dimensions L - cm W - cm H - cm	Motor Drive Voltage and Cycles and Horsepower	Remarks
	L 1,760 C 1,100		Kubota I.W.		1943	10,500	454 253 261	I.M.D. 220V. 60~ 10HP.	
	L 1,760 C 1,100		"		1943	10,500	454 253 261	I.M.D. 220V. 60~ 10HP.	
			"		1919	4,000	245 240 300	I.M.D. 220V. 60~ 3HP.	
Horizontal Travel of Saddle 1,830			Osaka Kikō K.K.		1940	12,500	335 350 370	I.M.D. 220V. 60~ 7.5HP.	
Horizontal Travel of Saddle 1,830			"		1940	12,500	335 350 370	I.M.D. 220V. 60~ 7.5HP.	
			Kubota I.W.		1918	800	180 200 230		
		Swing with Side Head 675	Osaka Kikō K.K.		1942	3,900	180 200 260	I.M.D. 220V. 60~ 7.5HP.	
		Swing with Side Head 675	"		1942	3,900	180 200 260	I.M.D. 220V. 60~ 7.5HP.	

KUBOTA IRON WORK LTD.
MUKOYAMA PLANT

DRILLING MACHINES

CLASSIFICATION AND SPECIFICATIONS

1	2	3	4	5	6	7	8	9	10	11	12
Inventory Code No.	Type	Sub-Type	Number of Spindles	Distance Face of Column to Center of Spindle mm	Out Side Dimensions of Tables mm	Column Diameter in mm	Maximum Distance Spindle to Base mm	Arm Length	Drilling Capacity in Steel & Cast Iron mm	Diameter of Spindles mm	Manufacturer
IA3-1	Sensitive and power Fed Upright	Single Spindle	1	410 310	Table dia 570 ϕ	180 ϕ	1,000	-	25	40	Sel
IA3-2	"	"	1	610 320	Table dia 530 584	180 ϕ	1,020 1,120	-	38	40 45	Yok Ki
IA3-3	"	"	1	400 200	L 480 W 460	Box frame 120x195	580	-	25	25	Sel
IA3-4	Radial Drill	"		1,250	Bed Table L 1,150 W 850	270 ϕ	1,260	1,250	-	42	Kito or W
IA3-5	"	"		1,554	Bed Table L 1,600 W 920	360 350 ϕ	6670 1660	1,554	in steel 50 ϕ in cast iron 70 ϕ	60	Roku Sho

DRILLING MACHINES

no. 299

CLASSIFICATION AND SPECIFICATIONS

	8	9	10	11	12	13	14	15	16	17	18
mm eter mm	Maximum Distance Spindle to Base mm	Arm Length	Drilling Capacity in Steel Cast Iron mm	Diameter of Spindles mm	Maker's Name	Model No. and Serial No.	Year of Manufac- ture	Weight in Kgs	Overall Dimen- sions L - cm W - cm H - cm	C.S.D or I.M.D - Volts - Cycles - HP	Remarks.
φ	1,000	-	25	40	Selson		1918	600	130 200 215	I.M.D. 220V 60~ 1HP	
φ	1,020 1,120	-	38	40 45	Yodogawa Kikui	Serial No 134	1938	400 1,350	95 165 245	I.M.D. 220V 60~ 1HP 5HP	
IME 15	580	-	25	25	Selson		1918	400	65 120 205	I.M.D. 220V 60~ 5HP 2HP	
φ	1,260	1,250	-	42	Kitchen and Wade	Serial No 1596	1927	4,500	130 250 250	I.M.D. 220V 60~ 3HP	
φ	1,670 1,660	1,554	in steel 50 φ in cast iron 70 φ	60	Rokutoku Shō Ten		1939	3,900 4,061	310 125 275	I.M.D. 220V 60~ 3HP	

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GEAR CUTTING AND FINISHING MACH

CLASSIFICATION AND SPECIFICATIO

1	2	3	4	5	6	7	8	9	
Inventory Code No.	Type	Sub-Type	Number of Spindles	Maximum Diameter of Work mm	Maximum Width of Work mm	Maximum Diameter of Cutting Tool mm	Types of Gears that Can be made on Machine	Makers Name	Mo Ser
IA4-1	Gear Hobbing Machine	Single Spindle	1	1.010φ	305	200φ 130	Spur gear Herial gear Worm wheel	Kashihugi I. W.	No
IA4-2	Gear Hobbing Machine	"	1	650φ	230	130φ	"	Kumitomo I. W.	ser 25
IA4-3	Gear Hobbing Machine	"	1	650φ	230	200φ	"	Kumitomo I. W.	ser 25
IA4-4	Gear Hobbing Machine	"	1	1.016φ	406	200φ	"	Karatu I. W.	
IA4-5	Gear Hobbing Machine	"	1	1.010φ	305	200φ 130	"	Kashihugi I. W.	

GEAR CUTTING AND FINISHING MACHINES

CLASSIFICATION AND SPECIFICATIONS

6	7	8	9	10	11	12	13	14	15
Maximum Cutting Tool mm	Maximum Diameter of Cutting Tool mm	Types of Gears that Can be made on Machine	Maker's Name	Model No. and Serial No.	Year of Manufacture	Weight in kgs	Overall Dimensions L - cm W - cm H - cm	G.S.D or I.M.D - Volts - Cycles - HP	Remarks
25	200φ 130	Spur gear Herial gear Worm wheel	Kashihugi I. W.	No. 2	1940	700 3,613	135 235 225	I.M.D. 220V 60~ 3HP	
30	130φ	"	Kunitomo I. W.	serial 253	1943	2000 1,950	110 210 195	I.M.D. 220V 60~ 2HP	
30	200φ	"	Kunitomo I. W.	serial 254	1943	2000 1,950	110 210 195	I.M.D. 220V 60~ 2HP	
26	200φ	"	Karatu I. W.		1942	10,200 10,160	377 208 286	I.M.D. 220V 60~ 5HP	
25	200φ 130	"	Kashihugi I. W.		1940	700 3,613	135 235 225	I.M.D. 220V 60~ 3HP	

775013

LATHES

CLASSIFICATION AND SPECIFICATIO									
1	2	3	4	5	6	7	8	9	10
Inventory Code No.	Type	Sub-Type	Swing Over Ways <small>mm</small>	Swing Over Carriage <small>mm</small>	Round Bar Capacity	Number of Spindles	Length Between Centers <small>mm</small>	Type of Turret and Diameter of Hole	Maker's Name
IA6-1	Engine Lathe		460	270			870		Kubota I.W.
IA6-2	Engine Lathe		460	270			870		Kubota I.W.
IA6-3	Engine Lathe		460	270			870		Kubota I.W.
IA6-4	Engine Lathe		460	270			870		Kubota I.W.
IA6-5	Engine Lathe		460	270			870		Kubota I.W.
IA6-6	Gap Lathe		750	350			1120		Kubota I.W.
IA6-7	Gap Lathe		750	350			1120		Kubota I.W.
IA6-8	Gap Lathe		750	350			1120		Kubota I.W.
IA6-9	Gap Lathe		750	350			1120		Kubota I.W.
IA6-10	Gap Lathe		750	350			1120		Kubota I.W.
IA6-11	Gap Lathe		750	350			1120		Kubota I.W.

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LATHES

No. 4 of 9

CLASSIFICATION AND SPECIFICATIONS

7	8	9	10	11	12	13	14	15	16
Number of Spindles	Length Between Centers mm	Type of Turret and Diameter of Hole	Maker's Name	Model No and Serial No.	Year of Manufacture	Weight in KGS	Overall Dimensions L W H cm cm cm	C.S.D or I.M.D - Volts - cycles - H.P.	Remarks
	870		Kubota I.W.		1939	2.000	240 105 110	I.M.D. 220V 60~ 5HP.	
	870		Kubota I.W.		1939	2.000	240 105 110	I.M.D. 220V 60~ 5HP.	
	870		Kubota I.W.		1939	2.000	240 105 110	I.M.D. 220V 60~ 5HP.	
	870		Kubota I.W.		1939	2.000	240 105 110	I.M.D. 220V 60~ 5HP.	
	870		Kubota I.W.		1939	2.000	240 105 110	I.M.D. 220V 60~ 5HP.	
	1.120		Kubota I.W.		1940	2.500	130 120 160	I.M.D. 220V 60~ 3HP.	
	1.120		Kubota I.W.		1940	2.500	130 120 160	I.M.D. 220V 60~ 3HP.	
	1.120		Kubota I.W.		1940	2.500	130 120 160	I.M.D. 220V 60~ 3HP.	
	1.120		Kubota I.W.		1939	2.500	130 120 160	I.M.D. 220V 60~ 3HP.	
	1.120		Kubota I.W.		1939	2.500	130 120 160	I.M.D. 220V 60~ 3HP.	
	1.120		Kubota I.W.		1939	2.500	130 120 160	I.M.D. 220V 60~ 3HP.	

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IA6-9	Gap Lathe		750	350			1.120	Kubota I.W.
IA6-10	Gap Lathe		750	350			1.120	Kubota I.W.
IA6-11	Gap Lathe		750	350			1.120	Kubota I.W.
IA6-12	Gap Lathe		750	350			1.120	Kubota I.W.
IA6-13	Gap Lathe		750	350			1.120	Kubota I.W.
IA6-14	Gap Lathe		1.400	660			3.300	Kubota I.W.
IA6-15	Screw Cutting Lathe		210	120		1	3.300	American Tool
IA6-16	Gap Lathe		930	650			3.100	Takahashi I.W.
IA6-17	Gap Lathe		1.350	650			3.100	Takahashi I.W.
IA6-18	Gap Lathe		820	680			1.350	Kubota I.W.
IA6-19	Gap Lathe		520	340			1.750	Kubota I.W.
IA6-20	Gap Lathe		520	260			1.750	Kubota I.W.
IA6-21	Engine Lathe		460	300			1.350	Shimizu I.W.
IA6-22	Gap Lathe		750	350			1.120	Kubota I.W.
IA6-23	Gap Lathe		750	350			1.120	Kubota I.W.
IA6-24	Screw Cutting Lathe			250		1	3.100	Lodge and Shipley
IA6-25	Engine Lathe		260	180			580	Kubota I.W.

	1.120	Kubota I.W.		1939	2.500	130 120 160	I.M.D. 220V 60~ 3HP
	1.120	Kubota I.W.		1939	2.500	130 120 160	I.M.D. 220V 60~ 3HP
	1.120	Kubota I.W.		1939	2.500	130 120 160	I.M.D. 220V 60~ 3HP
	1.120	Kubota I.W.		1939	2.500	130 120 160	I.M.D. 220V 60~ 3HP
	1.120	Kubota I.W.		1939	2.500	130 120 160	I.M.D. 220V 60~ 3HP
	3.300	Kubota I.W.	Model No 2012	1942	6.500	570 135 140	I.M.D. 220V 60~ 15HP
/	3.300	American Tool		1939	6.000	490 125 135	I.M.D. 220V 60~ 7.5HP
	3.100	Takahashi I.W.	Serial No 1429-4	1941	6.000	610 172 144	I.M.D. 220V 60~ 10HP
	3.100	Takahashi I.W.	Serial No 1429-3	1941	6.000	610 172 144	I.M.D. 220V 60~ 10HP
	1.350	Kubota I.W.		1918	3.000	375 210 180	I.M.D. 220V 60~ 2HP
	1.750	Kubota I.W.		1918	1.600	345 180 135	I.M.D. 220V 60~ 3HP
	1.750	Kubota I.W.		1918	1.600	300 180 150	I.M.D. 220V 60~ 2HP
	1.350	Shimizu I.W.		1918	1.700	270 180 150	I.M.D. 220V 60~ 3HP
	1.120	Kubota I.W.		1941	2.500	310 120 160	I.M.D. 220V 60~ 3HP
	1.120	Kubota I.W.		1941	2.500	310 120 160	I.M.D. 220V 60~ 3HP
/	3.100	Lodge and Shipley	0103316	1938	6.000	510 130 140	I.M.D. 220V 60~ 7.5HP
	580	Kubota I.W.		1941	1.000	175 105 130	I.M.D. 220V 60~ 2HP

MILLING MACHINES

CLASSIFICATION AND SPECIFICATIONS

1	2	3	4	5	6	7	8	9	10
Inventory Code No.	Type	Sub-Type	Overall Table Size LxW mm	Table Travel Longitudinal Cross and Vertical mm	Number of Spindles	Spindle Taper Number	Diameter of Arbor mm	Center of Spindle To Top of Table mm	Maker's Name
IA7-1	Knee Type Horizontal	Plain Universal Manufacturing	L 1110 1390 W 705 310	L 370 370 C 305 305 V 450 483	1	Morse Taper No. 2	25φ	400 515	Osaka Kiko
IA7-2	Knee Type Horizontal	"	L 1110 1390 W 705 310	L 370 370 C 305 305 V 450 483	1	Morse Taper No. 2	25φ	400 515	Osaka Kiko
IA7-3	Thread Milling Machine	External		Center distance 3.700	1	Spindle dia 25φ			J. E. Reinecker
IA7-4	Knee Type Vertical	Standard Vertical Manufacturing	L 1280 W 400	L 220 C 620 V 320	1	Morse Taper No. 3	55φ		Kubota
IA7-5	Knee Type Vertical	"	L 1120 W 250	L 200 C 580 V 270	1	Morse Taper No. 3	50φ	230	Yashigaki Zoki

LING MACHINES

no. 5 of 9

DESCRIPTION AND SPECIFICATIONS

7	8	9	10	11	12	13	14	15	16
Spindle Taper Number	Diameter of Arbor mm	Center of Spindle to Top of Table mm	Maker's Name	Model No and Serial No	Year of Manufacture	Weight in Kgs	Overall Dimensions L - cm W - cm H - cm	C.S.D. or I.M.D. - Voltages - Cycles - HP	Remarks.
Morse Taper No. 2	25φ	400 515	Osaka Kiko	No. 2	1940	3.000 3.000	115 220 170	I.M.D. 220V 60~ 5HP	
Morse Taper No. 2	25φ	400 515	Osaka Kiko	No. 2	1940	3.000 3.000	115 220 170	I.M.D. 220V 60~ 5HP	
Spindle dia 25φ			J. E. Reinecker		1940	7.000	470 135 140	I.M.D. 220V 60~ 3HP	
Morse Taper No. 3	55φ		Kubota		1919	4.000	200 170 220	I.M.D. 220V 60~ 3HP	
Morse Taper No. 3	50φ	230	Yashigaka Zaki		1940	2.800 2.800	175 140 165	I.M.D. 220V 60~ 5HP	

PLANERS

CLASSIFICATION AND SPECIFICATION

1	2	3	4	5	6	7	8	9	10
Inventory Code NO.	Type	Sub-Type	Number of Heads	Distance Between Housings mm	Maximum Distance Between Platen (Table) and Cross Rail mm	Maximum Stroke mm	Platen or Table Size L - mm W - mm	Maker's Name	Model No. & Serial No.
IA8-1	Open Side		3		1.300	6.100	6.600 1.500	Osaka Kikō	
IA8-2	Double Housing		4	2.550	2.000	12.000	6.500 13.000 2.200	Kubota I.W.	Model 4EC-
IA8-3			2	1.290	1.300	2.440	2.690 760	Tagiri I.W.	
IA8-4			4	1.520	1.500	5.000	5.400 1.300	Kubota I.W.	Model B-5
IA8-5			4	2.800	2.760	4.870	5.500 2.140		
IA8-6			3	920	600	3.660	4.000 770	Osaka Kikō	
IA8-7	Open Side		3	—	1.180	4.000	3.950 830		

PLANERS

No. 6 of 9

DESCRIPTION AND SPECIFICATIONS

7	8	9	10	11	12	13	14	15
Maximum Stroke mm	Platen or Table Size L - mm W - mm	Maker's Name	Model No. & Serial No.	Year of Manufacture	Weight in Kgs	Overall Dimensions L - cm W - cm H - cm	C.S.D or I.M.D. - Volts - Cycles - HP	Remarks
6.100	6.600 1.500	Osaka Kiko		1941	39.500	1520 450 385	I.M.D. 220V 60~ 30HP, 5HP, 15HP	
12.000	6.500 13.000 2.200	Kubota I.W.	Model No 4EC-625	1943	75.000	2565 578 420	80HP, 60HP 50HP, 4HP, 3HP	
2.440	2.690 760	Tagiri I.W.		1939	8.000	385 275 290	3HP	
5.000	5.400 1.300	Kubota I.W.	Model No B-513	1943	30.000	1100 395 393	25HP, 20HP, 14HP	
4.870	5.500 2.140	"		1919	45.000	770 580 520	30HP	
3.660	4.000 770	Osaka Kiko		1940	12.000	790 240 320	15HP	
4.000	3.950 830	"		1940	14.000	830 250 320	I.M.D. 220V 60~ 15HP	

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SHAPERS AND SLOTTERS

CLASSIFICATION AND SPECIFICATIONS

1	2	3	4	5	6	7	8	9
Inventory Code No.	Type	Sub-Type	Maximum Stroke of Ram mm	Maximum Travel of Tool-Head Slide mm	Maximum Work Table Travel Horizontal mm Vertical mm	Work Table Dimensions L mm W mm	Maker's Name	Model No. & Serial No.
IA9-1	Horizontal Shaper		610	200	H. 760 630 V. 350	690 405	Nakagawa Machine Work	
IA9-2	,		610	200	H. 760 630 V. 350	690 405	,	
IA9-3	,		610	200	H. 760 630 V. 350	690 405	,	
IA9-4	,		610	200	H. 760 630 V. 350	690 405	,	
IA9-5	,		610	200	H. 760 630 V. 350	690 405	,	
IA9-6	,		610	200	H. 760 630 V. 350	690 405	Nakagawa Machine Work	
IA9-7	Horizontal Shaper		610	140	640 310	900 660	Cincinnati Shaper	
IA9-8	Vertical Slotter		610	750	670 470	Table Dia 1400 ϕ	Kubota I.W.	
IA9-9	Vertical Slotter		200	330	280 330	Table Dia. 650 ϕ	Kubota I.W.	
IA9-10	Hack-Saw		Stroke of Saw 152	-	-	Maximum dimension of Bar. to be cut. 203x203	Sugimoto I.W.	

MAPERS AND SLOTTERS

no. 7 of 9

CLASSIFICATION AND SPECIFICATIONS

6	7	8	9	10	11	12	13	14
Maximum Work Table Travel Horizontal mm Vertical mm	Work Table Dimensions L mm W mm	Maker's Name	Model No. & Serial No.	Year of Manufacture	Weight in kgs	Over-all Dimensions L - cm W - cm H - cm	C.S.D. or I.M.D. - Volts - Cycles - HP	Remarks
H. 760 V. 630 350	690 405	Nakagawa Machine Work		1940	3.400	245 145 186	I.M.D. 220V 60~ 5HP	
H. 760 V. 630 350	690 405	"		1941	3.400	245 145 186	" " 5HP	
H. 760 V. 630 350	690 405	"		1943	3.400	245 145 186	" " 5HP	
H. 760 V. 630 350	690 405	"		"	3.400	245 145 186	" " 5HP	
H. 760 V. 630 350	690 405	"		"	3.400	245 145 186	" " 5HP	
H. 760 V. 630 350	690 405	Nakagawa Machine Work		1943	3.400	245 145 186	" " 5HP	
640 310	900 660	Cincinnati Shaper		1919	4.500	280 220 190	" " 5HP	
670 470	Table Dia 1.400φ	Kubota I.W.		1918	12.000	360 195 380	" " 7.5HP	
280 330	Table Dia 650φ	Kubota I.W.		1918	3.000	230 140 250	" " 7.5HP	
-	Maximum dimension of Bar. to be cut. 203x203	Sugimoto I.W.		1939	250 675	150 660 117	I.M.D. 220V 60~ 1HP	

PRIMARY ELECTRIC POWER TRANSMISSION AND D

Inventory Code No.	Name of Machine	Type	Size or Capacity	Maker's Name	Year of Manufacture
IB1-1	Power Transformer		100 KVA Single Phase P.V. 3,300V S.V. 220V	Osaka Henatuki K.K.	1941
IB1-2	Power Transformer		100 KVA Single Phase P.V. 3,300V S.V. 220V	Osaka Henatuki K.K.	1941
IB1-3	Power Transformer		100 KVA Single Phase P.V. 3,300V S.V. 220V	Osaka Henatuki K.K.	1941
IB2-1	Switch Board			Nishira Kogyo K.K.	1943

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No. 8 of 9

POWER TRANSMISSION AND DISTRIBUTION EQUIPMENT

Maker's Name	Year of Manufacture	Weight in Kgs	Overall Dimensions L - cm W - cm H - cm	C.S.D. or I.M.D. - Volts - Cycles - HP	Remarks
Osaka Henatuki K.K.	1941	800	90 80 120	60~	Serial No 509652
Osaka Henatuki K.K.	1941	800	90 80 120	60~	Serial No 509656
Osaka Henatuki K.K.	1941	800	90 80 120	60~	Serial no 509657
Nishira Kogyo K.K.	1943		240 200 80		

MISCELLANEOUS MACHINERY AND EQUIPMENT

Inventory Code No.	Name of Machine	Type	Size or Capacity	Maker's Name	Year of Manufacture	W
III C2-1	Crane	Over Head Travelling	Load 5 ^{kg} ton	Kubota & Higashijima	1943	
III C2-2	Crane	Over Head Travelling	Load Main 30 ^{ton} Aux 10 ^{ton}	Kubota & Nisshin	1943	
III C2-3	Crane	Over Head Travelling	Load 10 ^{ton}	Kubota & Higashijima	1943	

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MACHINERY AND EQUIPMENT

No. 9 of 9

Quantity	Maker's Name	Year of Manufacture	Weight in kgs	Overall Dimensions L - cm W - cm H - cm	C.S.D or I.M.D. - Volts - Cycles - HP	Remarks
1 Kgt	Kubota & Higashijima	1943	6.500	670 320 350	I.M.D 220V 60~ 10HP 10HP 3HP	
30 ton 10 ton	Kubota & Nisshin	1943	29.500	1450 430 490	I.M.D 220V 60~ 40HP 20HP 10HP 25HP	
1 ton	Kubota & Higashijima	1943	11.000	1220 340 400	I.M.D 220V 60~ 20HP 15HP 5HP	

775013

Sist of Plant Manufacturing Machine Tools

DATE 4 JULY 19

CODE NO. 13-84

NAME OF PLANT:

K.K. KUBOTA TEKKOSHO, MUKO

LOCALITY OF PLANT:

1396

~~1436~~ NISHIAZA SHINKAI, AMAGASAKI

19

HYŌGO PRE

775013

of Plant Manufacturing Machine Tools

DATE 4 JULY 1947

CODE NO. 13-84

NT: K.K. KUBOTA TEKKOSHO, MUKOGAWA PLANT.

ANT: ¹³⁹⁶~~1436~~ NISHIAZA SHINKAI, AMAGASAKI CITY,
~~19~~ HYOGO PREFECTURE.

BORING MACHINES

CLASSIFICATION AND SPECIFICATIONS

1	2	3	4	5	6	7	8	9
Inventory Code No.	Type	Sub-Type	Dimensions of Boring Bar mm	Maximum Elevation Spindle Center to Table Surface in mm	Table Dimensions (Length and Width or Diameter) in mm	Table Feed (Length and Cross) in mm	Swing Diameter	Maker's Name
IAI-1	Horizontal Boring, Drilling and Milling Machine	Special	100Φ	870 920	L 1370 W 840	L 1,760 C 1,100	-	Kubota I.W.
IAI-2	"	"	100Φ	870 920	¹³⁷⁰ L 1,380 W 840	L 1,760 C 1,100	-	"
IAI-3	"	Special purpose Type	50Φ	Spindle Center to Bed Surface 1650	No Table Floor Plate L 1,830 W 2,740	-	-	"
IAI-4	"	Special purpose Type	102Φ	Spindle Center to Bed Surface 1830	(No Table) Floor Plate L 1,830 W 2,740	Horizontal Travel of saddle 1,830	-	Osaka KIKO K.K.
IAI-5	"	Special purpose Type	102Φ	Spindle Center to Bed Surface 1830	(No Table) Floor Plate L 1,830 W 2,740	Horizontal Travel of saddle 1,830	-	"
IAI-6	"	Special	75Φ	-	No Table	-	-	Kubota I.W.
IAI-7	Vertical	Vertical Turret Lathe	-	800	Table dia 610Φ	-	Swing with side head 675Φ	Osaka KIKO K.K.
IAI-8	"	Vertical Turret Lathe	-	800	Table dia 610Φ	-	Swing with side head 675Φ	"

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BORING MACHINES

DATE JULY 4 1947 No. 2, 9

DESCRIPTION AND SPECIFICATIONS

	7	8	9	10	11	12	13	14	15
Dimensions (Length and Width in mm)	Table Feed (Length and Cross) in mm	Swing Diameter	Maker's Name	Model No. and Serial No.	Year of Manufac- ture	Weight in Kgs	Overall Dimen- sions L - cm W - cm H - cm	Motor Drive Voltage and Cycles and Horse- power	Remarks
70 40	L 1,760 C 1,100	-	Kubota I.W.		1943	10,500	454 253 261	I.M.D. 220V. 60~ 10HP.	
70 40	L 1,760 C 1,100	-	"		1943	10,500	454 253 261	I.M.D. 220V. 60~ 10HP.	
Plate 30		-	"		1919	4,000	245 240 300	I.M.D. 220V. 60~ 3HP.	
Plate 30 40	Horizontal Travel of saddle 1,830	-	Osaka Kiko K.K.		1940	12,500	335 350 370	I.M.D. 220V. 60~ 7.5HP.	
Plate 30 40	Horizontal Travel of saddle 1,830	-	"		1940	12,500	335 350 370	I.M.D. 220V. 60~ 7.5HP.	
		-	Kubota I.W.		1918	800	180 200 230		
		Boring with side head 675 φ	Osaka Kiko K.K.		1942	3,900	180 200 260	I.M.D. 220V. 60~ 7.5HP.	
		Boring with side head 675 φ	"		1942	3,900	180 200 260	I.M.D. 220V. 60~ 7.5HP.	

KUBOTA IRON WORK L.T.O
MUKOGAWA PLANT.

DRILLING MACHINES

CLASSIFICATION AND SPECIFICATION

1	2	3	4	5	6	7	8	9	10	11
Inventory Code No.	Type	Sub-Type	Number of Spindles	Distance Face of Column to Center of Spindle mm	Out Side Dimensions of Tables mm	Column Diameter in mm	Maximum Distance Spindle to Base mm	Arm Length	Drilling Capacity in Steel & Cast Iron mm	Diameter of Spindles mm
IA3-1	Sensitive and power Fed Upright	Single Spindle	1	470 310	Table dia 570φ	180φ	1,000	-	25	40
IA3-2	"	"	1	610 320	Table dia 630φ 584φ	180φ	1,020 1,120	-	38	40 45
IA3-3	"	"	1	400 200	L 480 W 460	Box frame 120x195	580	-	25	25
IA3-4	Radial Drill	"	-	1,250	Bed Table L 1,150 W 850	270φ	1,260	1,250	-	42
IA3-5	"	"	-	1,554	Bed Table L 1,600 W 920	360φ 350φ	1,660	1,554	in steel 50φ in cast iron 70φ	60

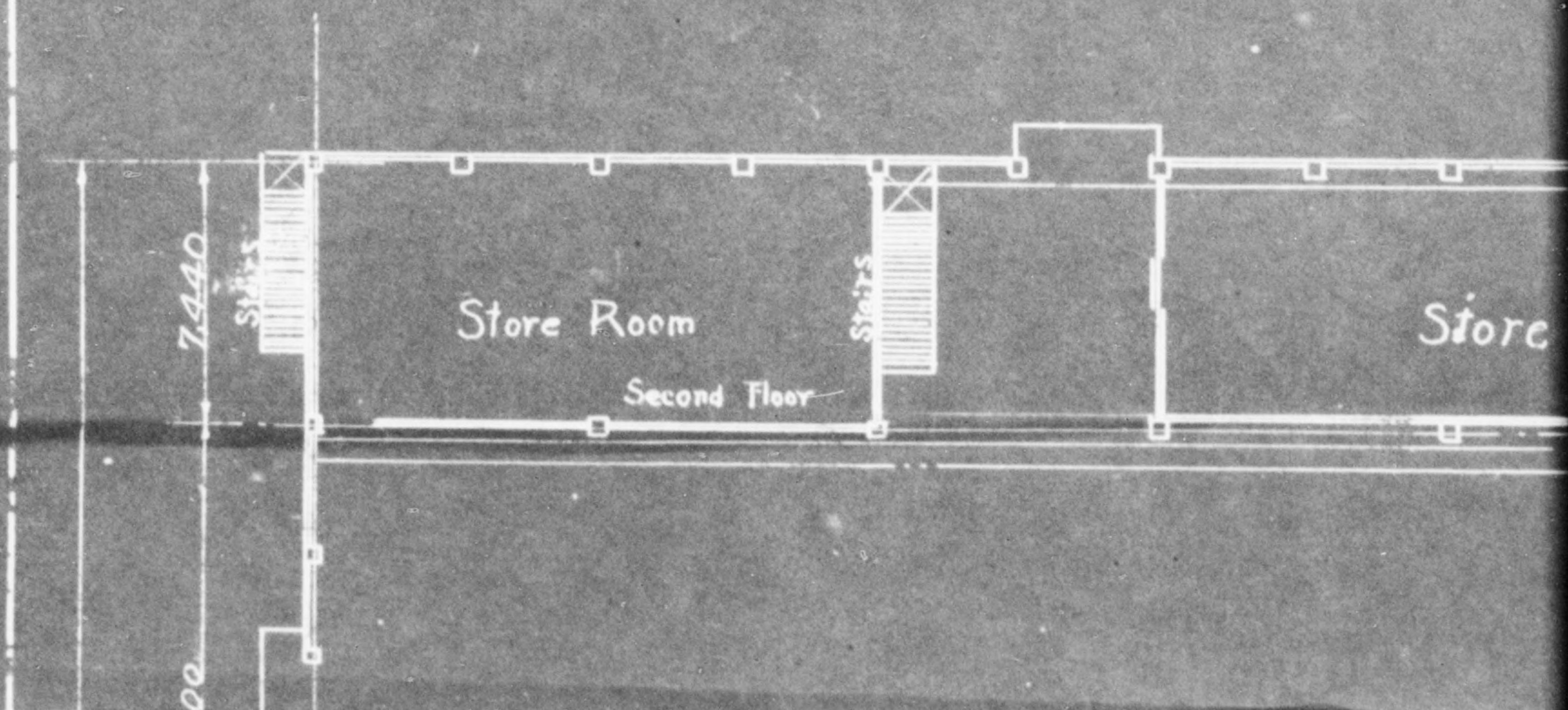
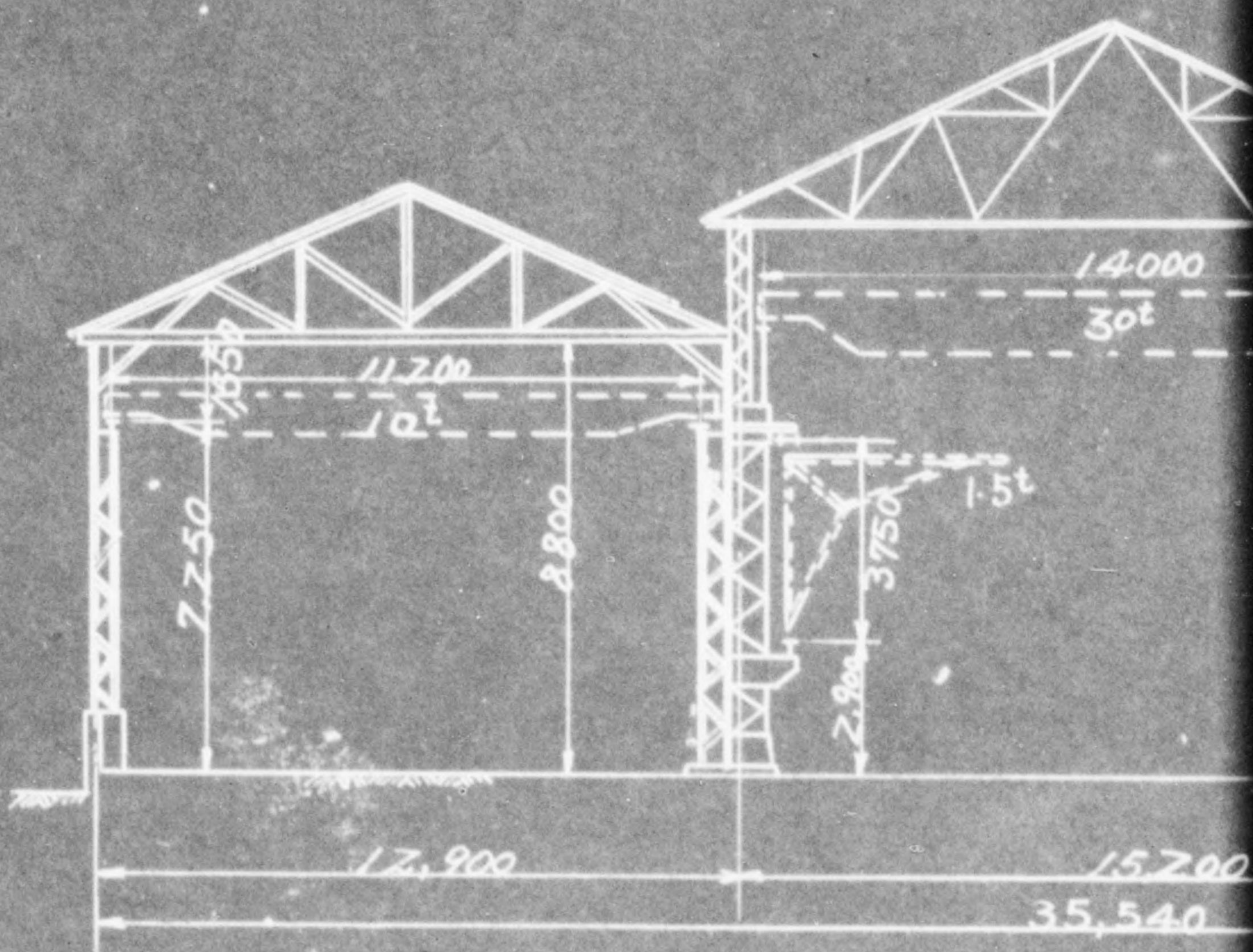
No 2 of 9

DRILLING MACHINES

CLASSIFICATION AND SPECIFICATIONS

	8	9	10	11	12	13	14	15	16	17	18
	Maximum Distance Spindle to Base mm	Arm Length	Drilling Capacity in Steel & Cast Iron mm	Diameter of Spindles mm	Makers Name	Model No. and Serial No.	Year of Manufacture	Weight in Kgs	Overall Dimensions L - cm W - cm H - cm	C.S.D or I.M.D - Volts - Cycles - HP	Remarks
φ	1,000	-	25	40	Selson		1918	600	130 200 215	I.M.D. 220V 60~ 1HP	
φ	1,020 1,120	-	38	40 45	Yodogawa KiKai	Serial No. 134	1938	1,400 1,350	95 165 245	I.M.D. 220V 60~ 5HP 5HP	
ME 15	580	-	25	25	Selson		1918	400	65 120 205	I.M.D. 220V 60~ 2HP 2HP	
φ	1,260	1,250	-	42	Kitchen and Wade	Serial No. 1596	1927	4,500	130 250 250	I.M.D. 220V 60~ 3HP	
φ	1,640	1,554	in Steel 50 φ in Cast iron 70 φ	60	Rokutoku Shōten		1939	3,900 4,061	310 125 275	I.M.D. 220V 60~ 3HP	

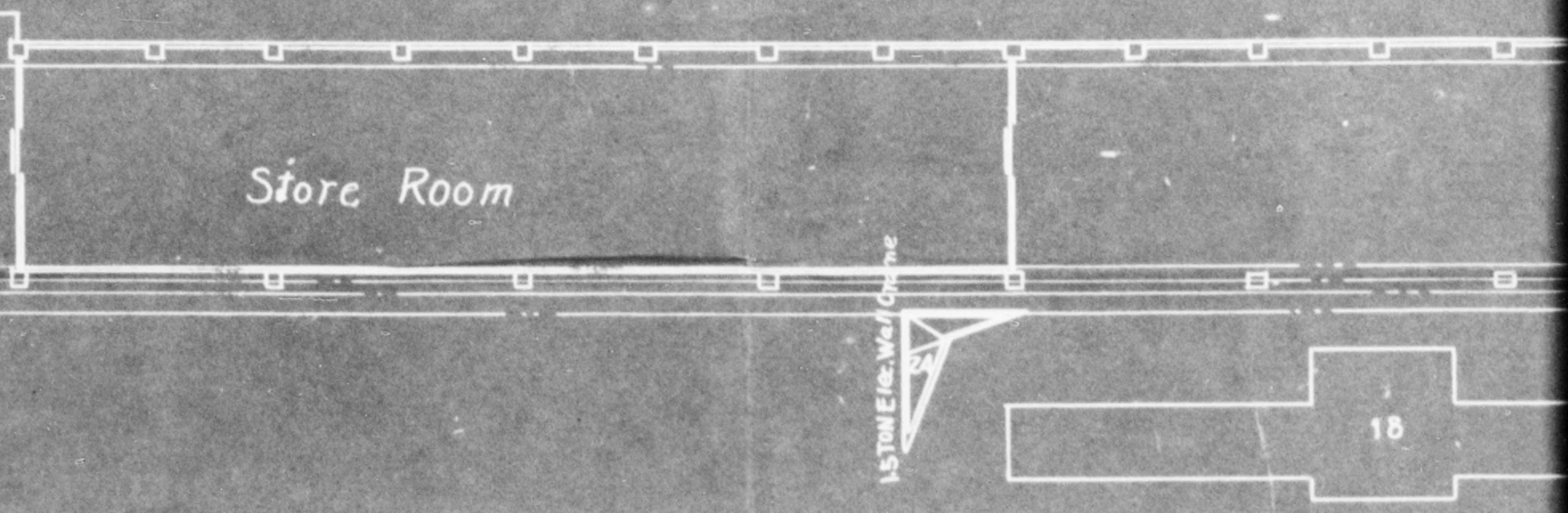
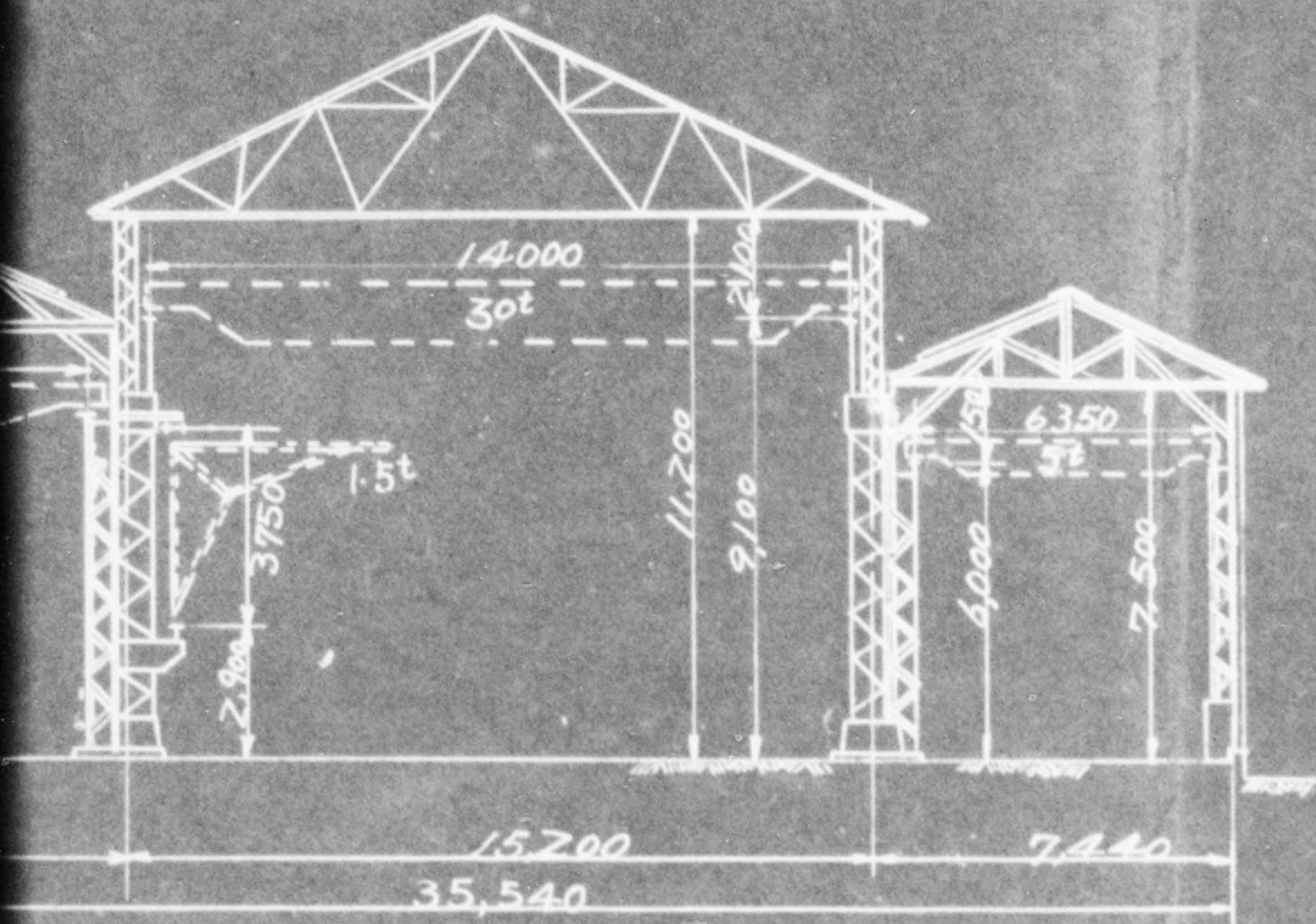
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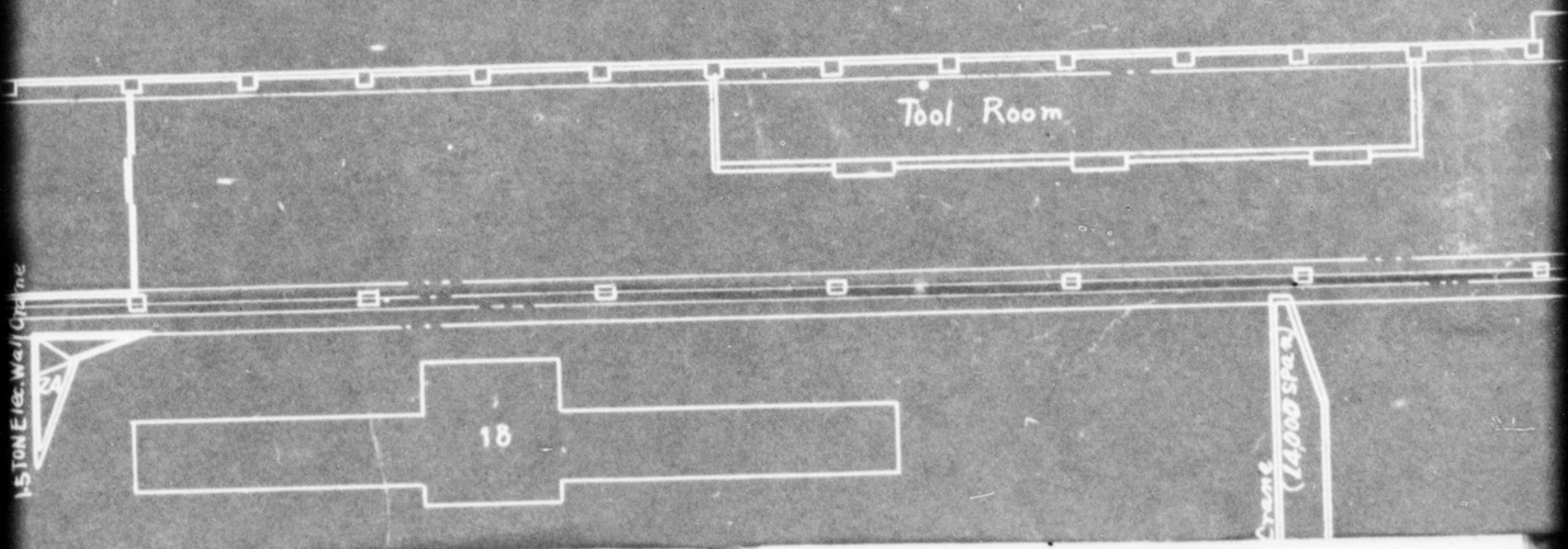


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NOTE :-



15 TON Electric Wall Crane

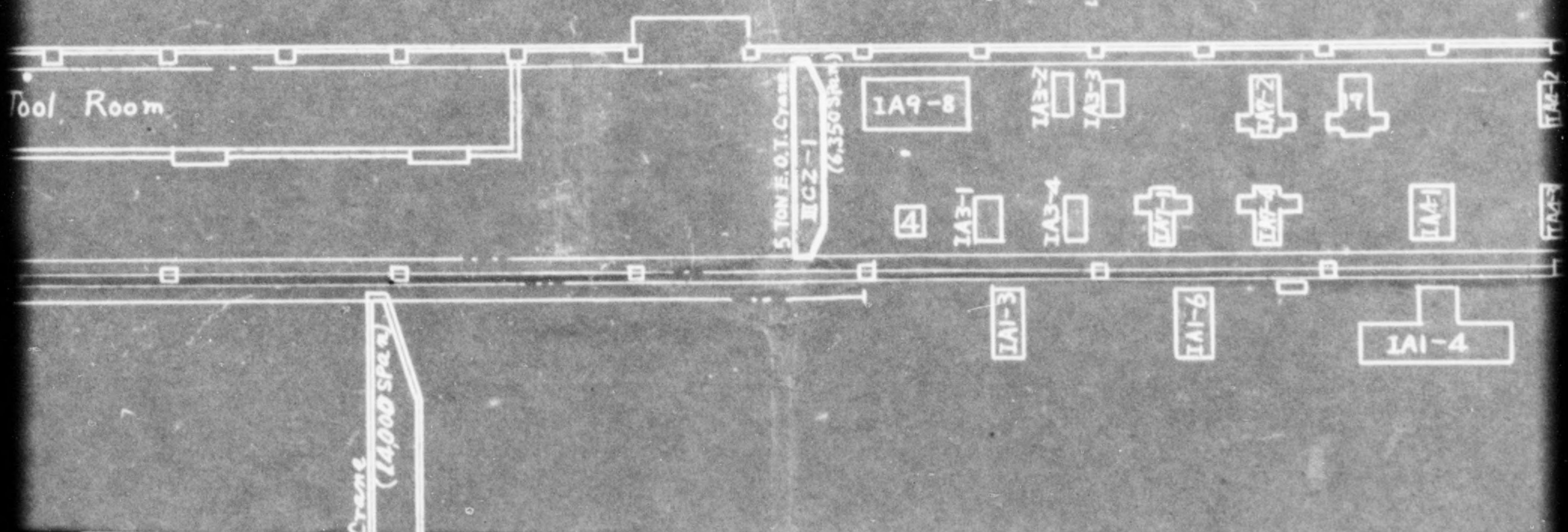
ON AND MACHINERY WORKS LTD. MUKOGAWA F

Arrangement of Machine Shop No.4 Scale

NOTE :-

☐ ----- Designated Machines.

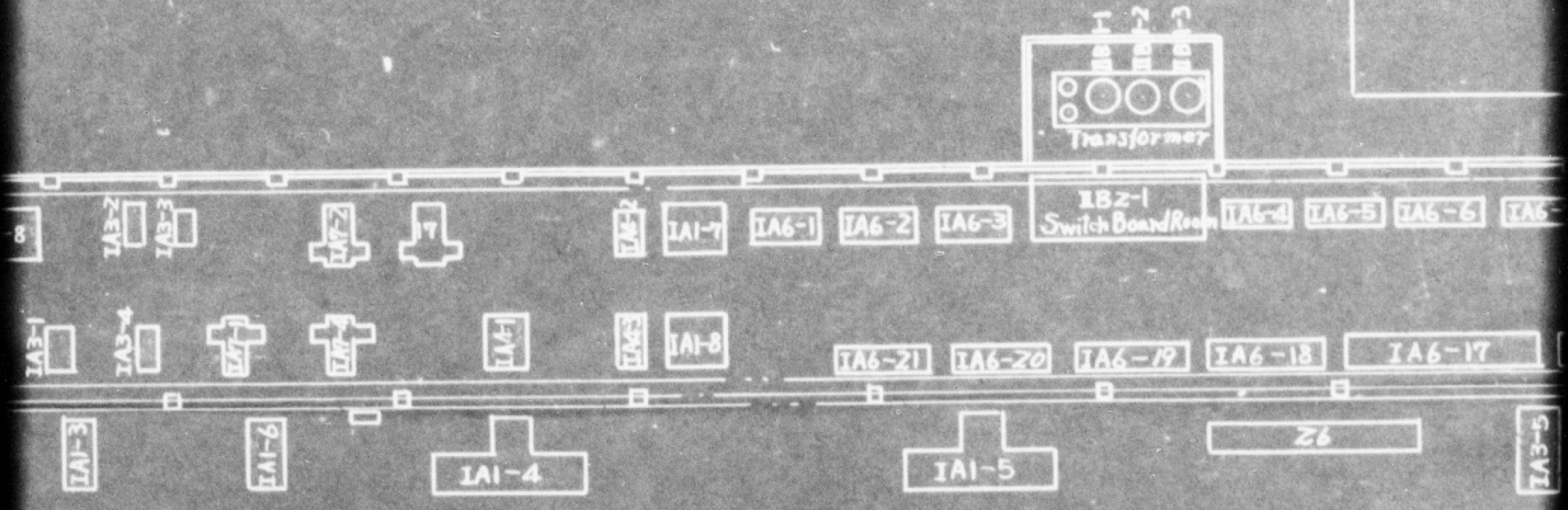
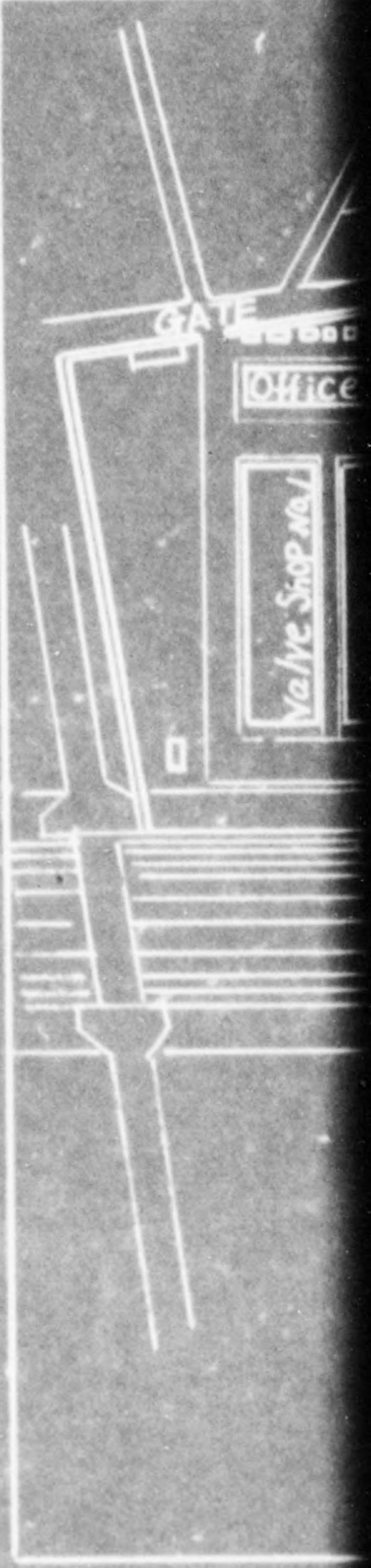
☐ ----- Remained Machines.



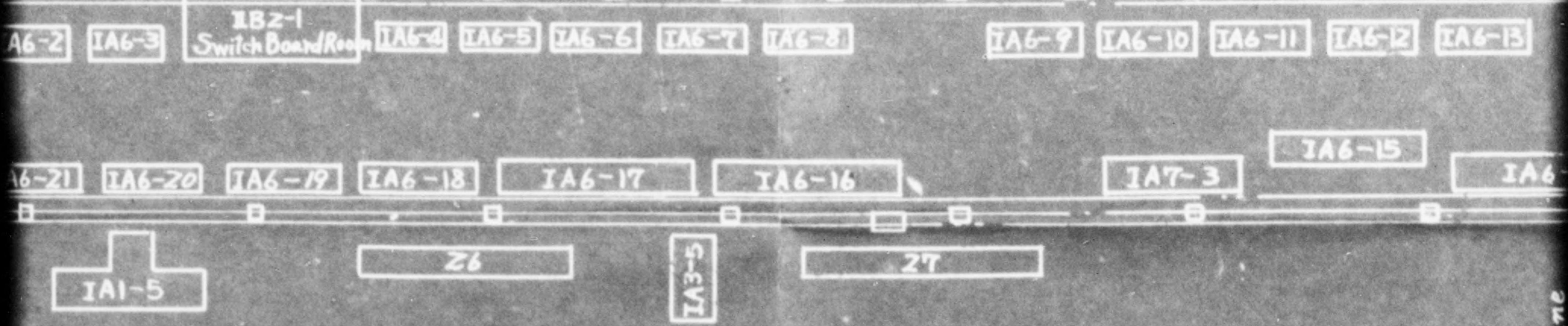
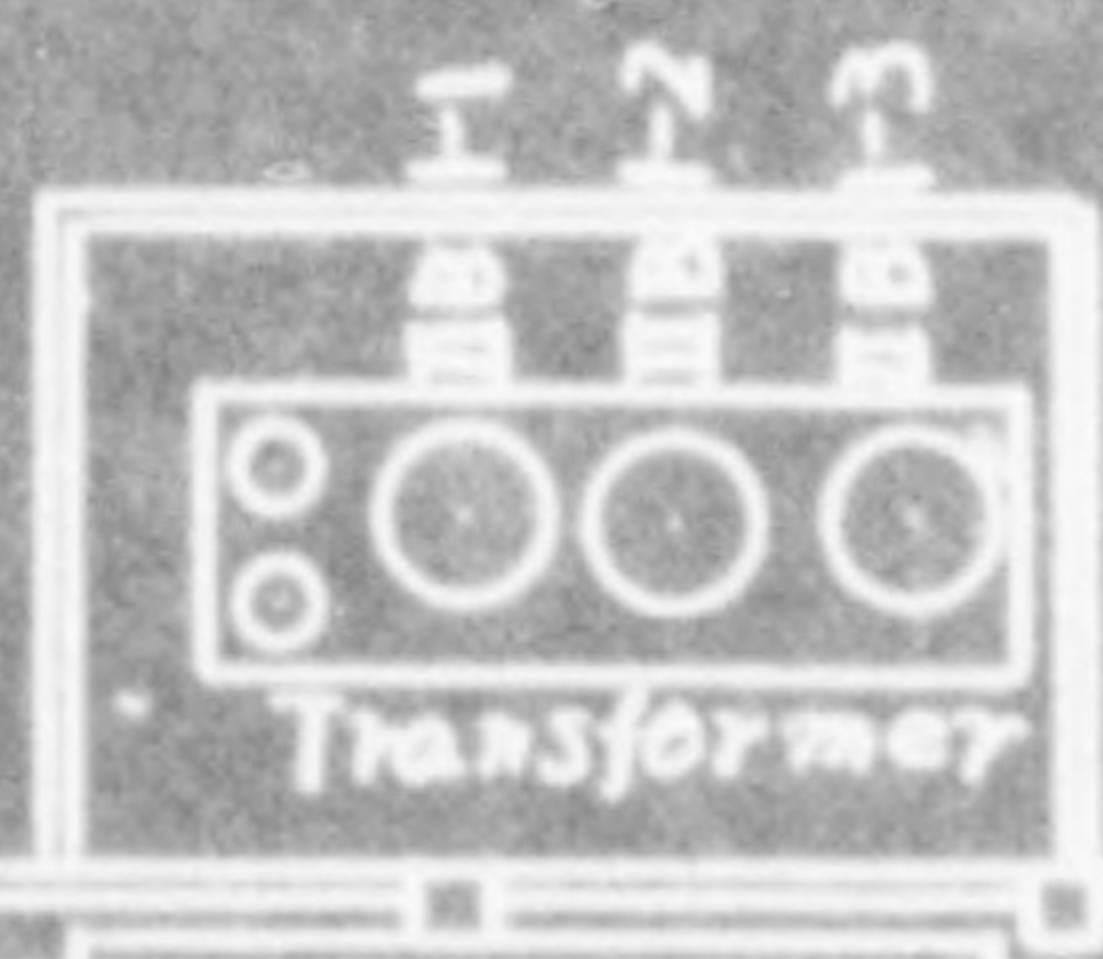
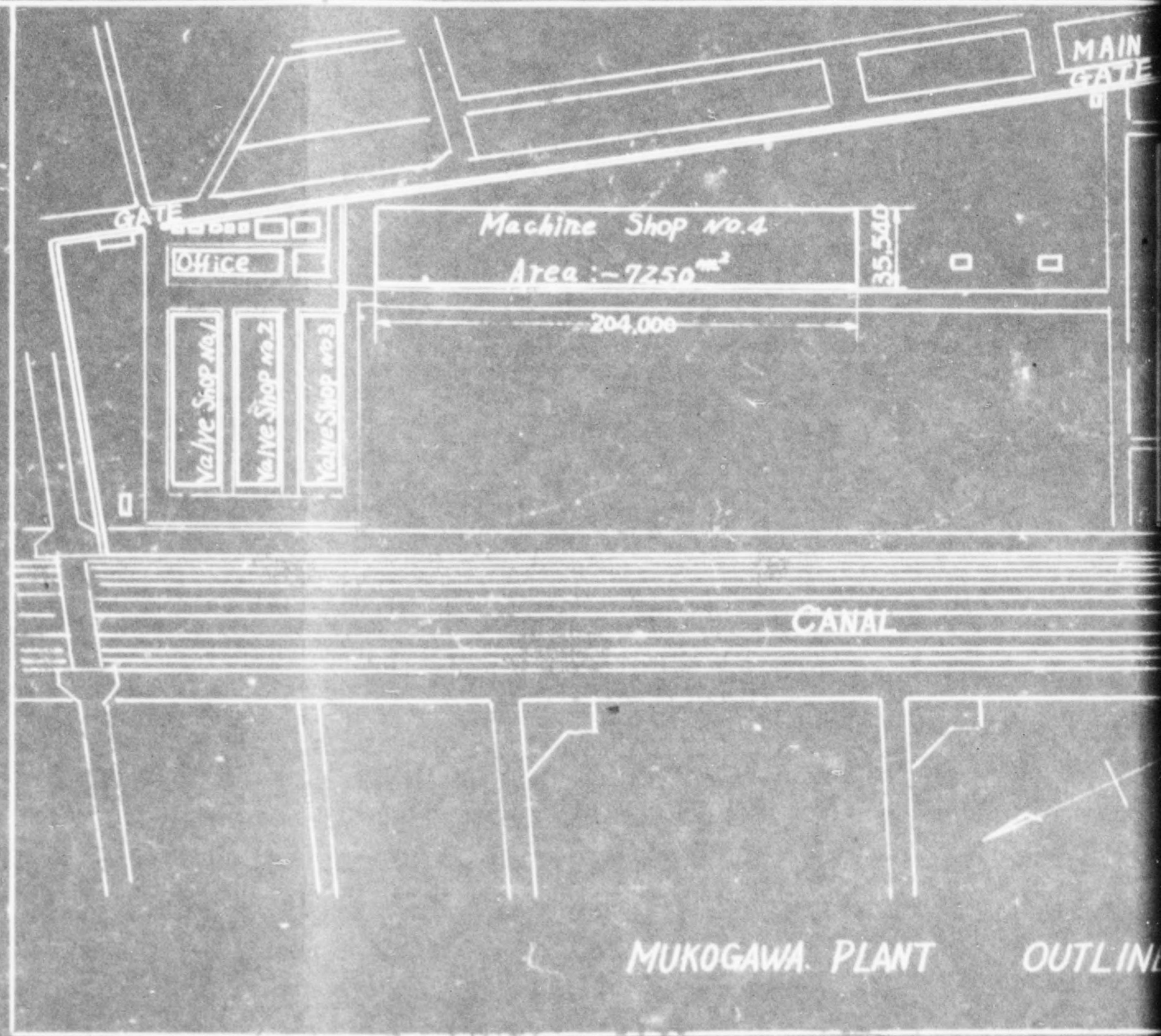
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LTD. MUKOGAWA PLANT

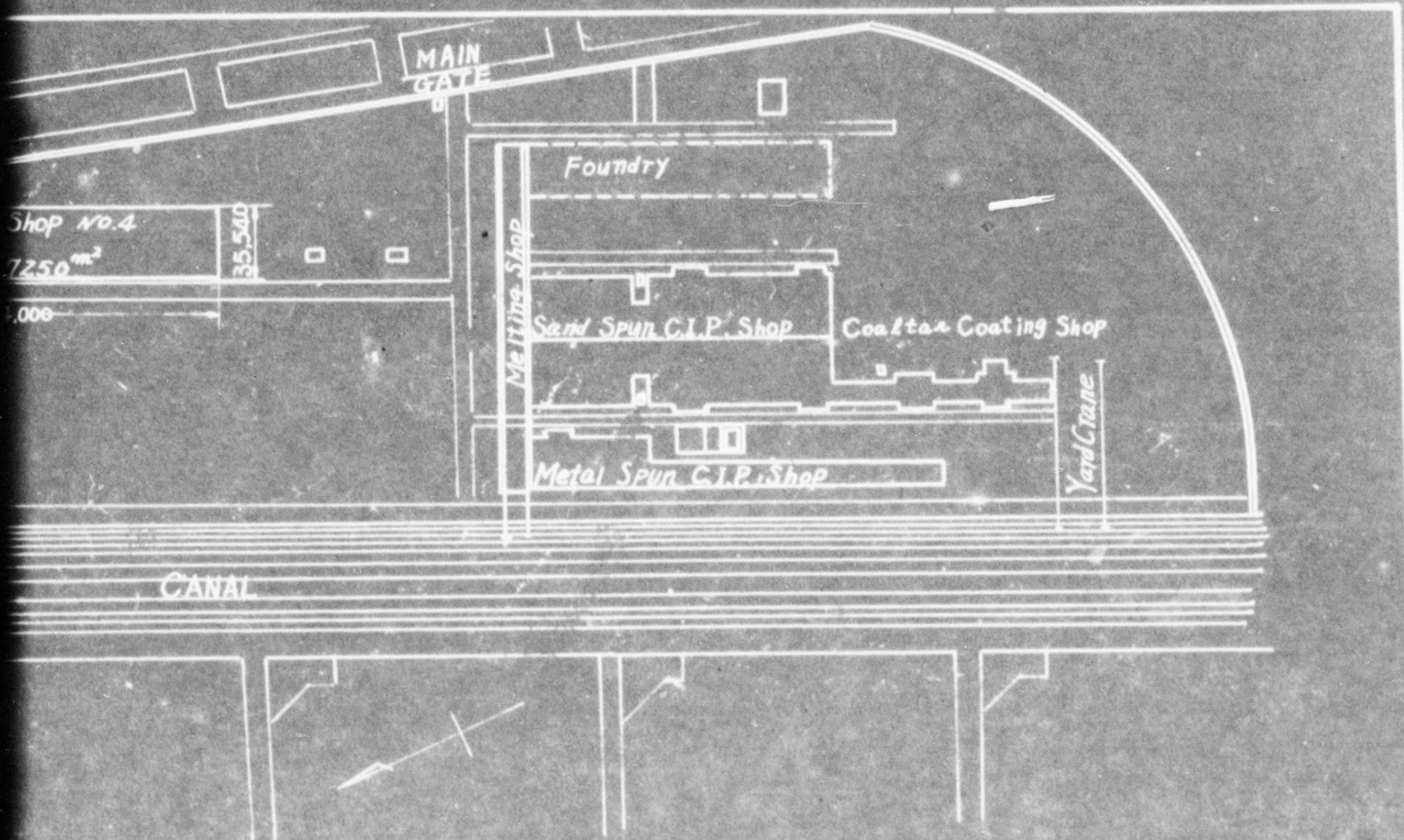
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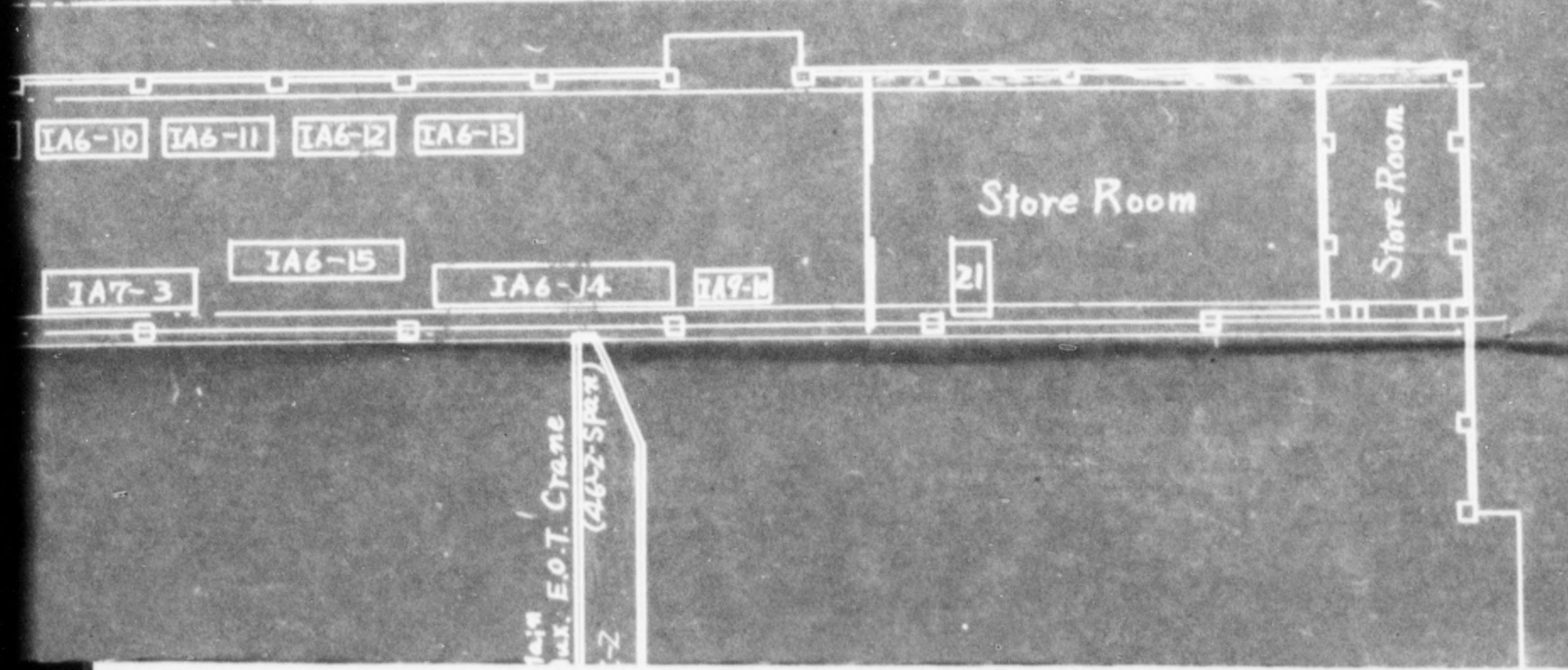
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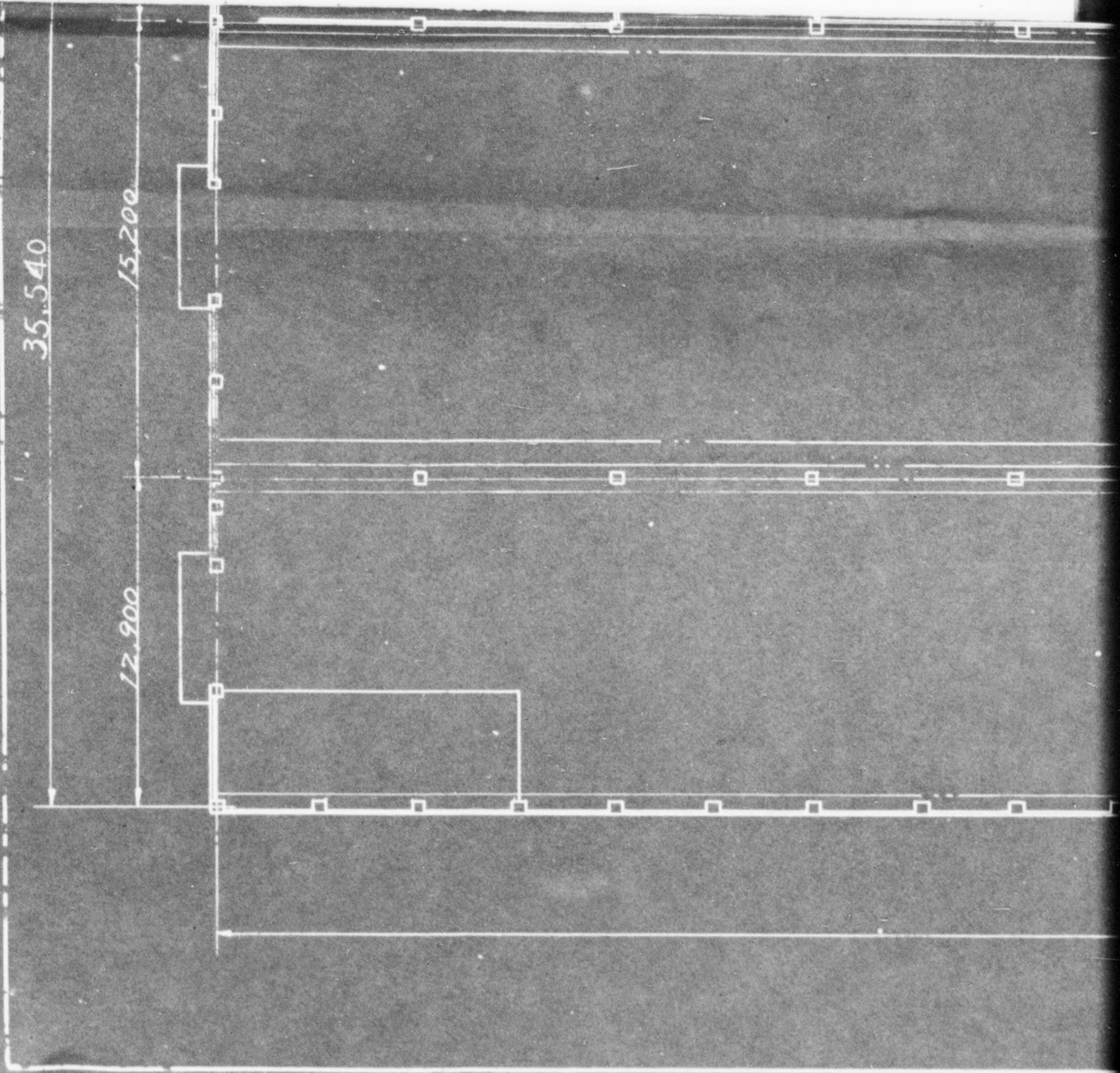
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MUKOGAWA PLANT OUTLINE SKETCH SCALE 1/3000



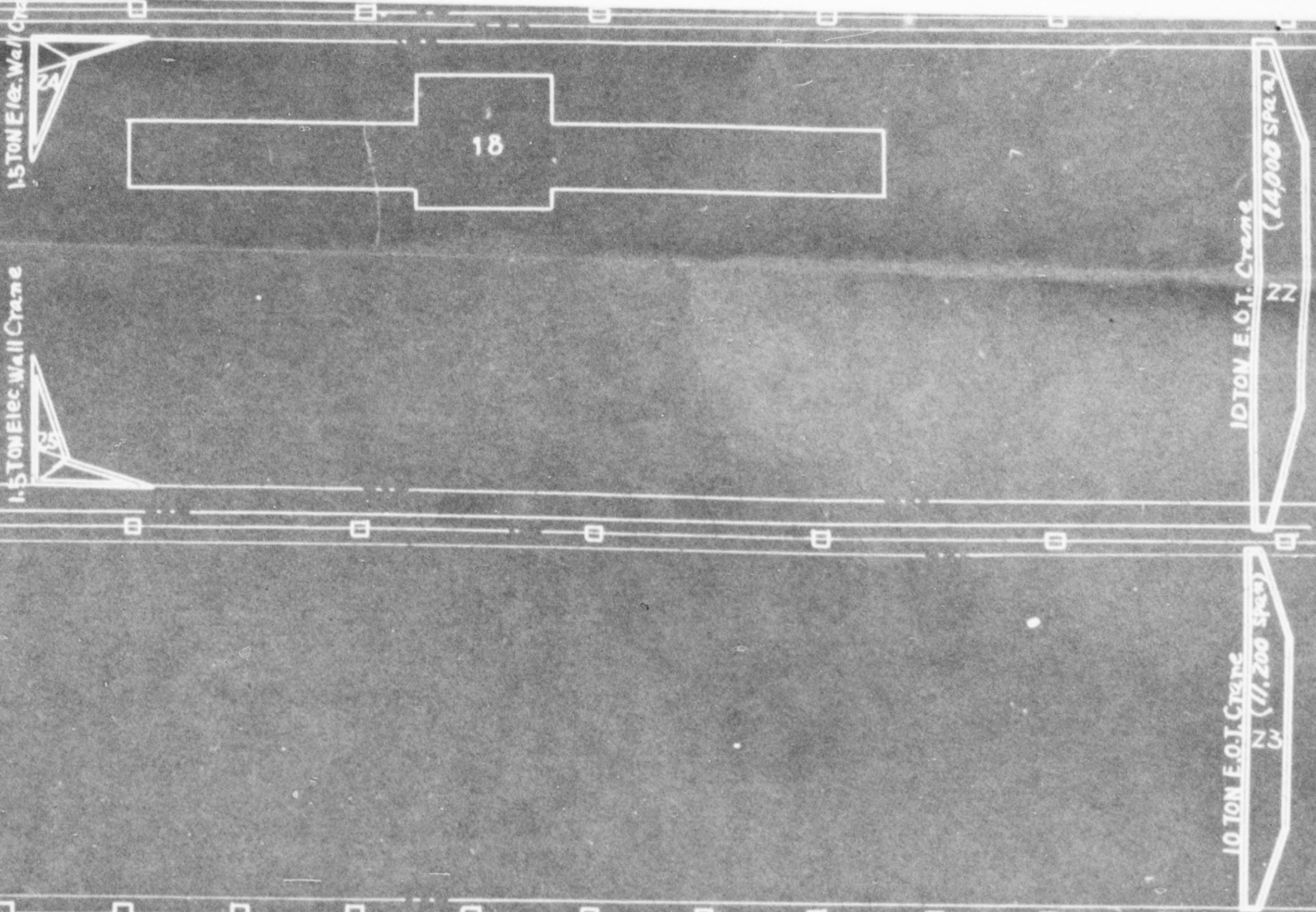
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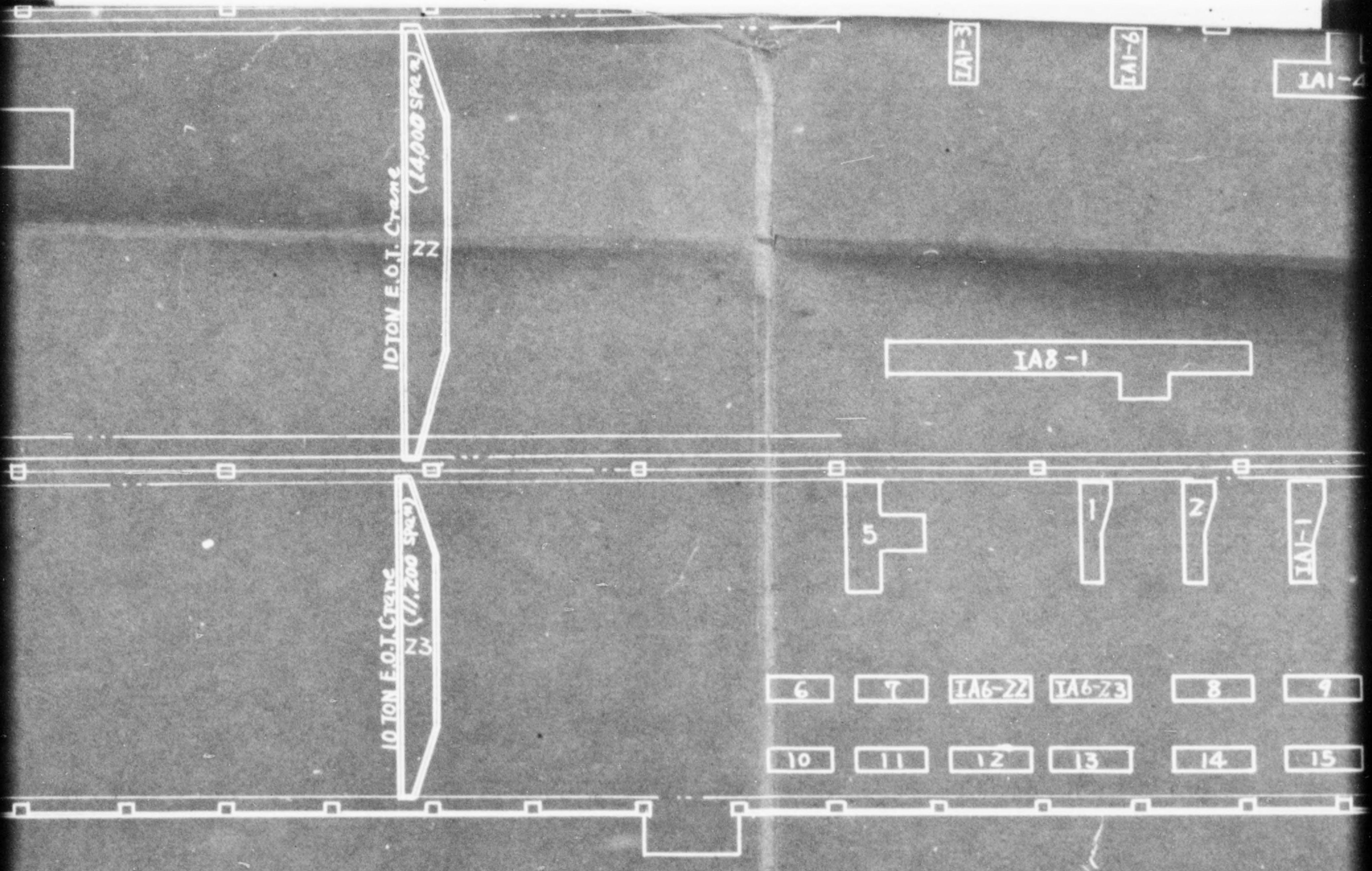
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IAI-3

IAI-6

IAI-4

IAI-5

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IA8-1

IA8-2

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IAI-1

IAI-2

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IA9-9

IA8-3

IA8-4

7

IA6-22

IA6-23

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IA9-1

IA9-2

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IA9-5

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IA1-5

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IA3-5

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IA8-2

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Surface Plate

IA8-3

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IA4-5 IA7-5

IA9-2

IA9-3

IA9-4

IA9-5

IA9-6

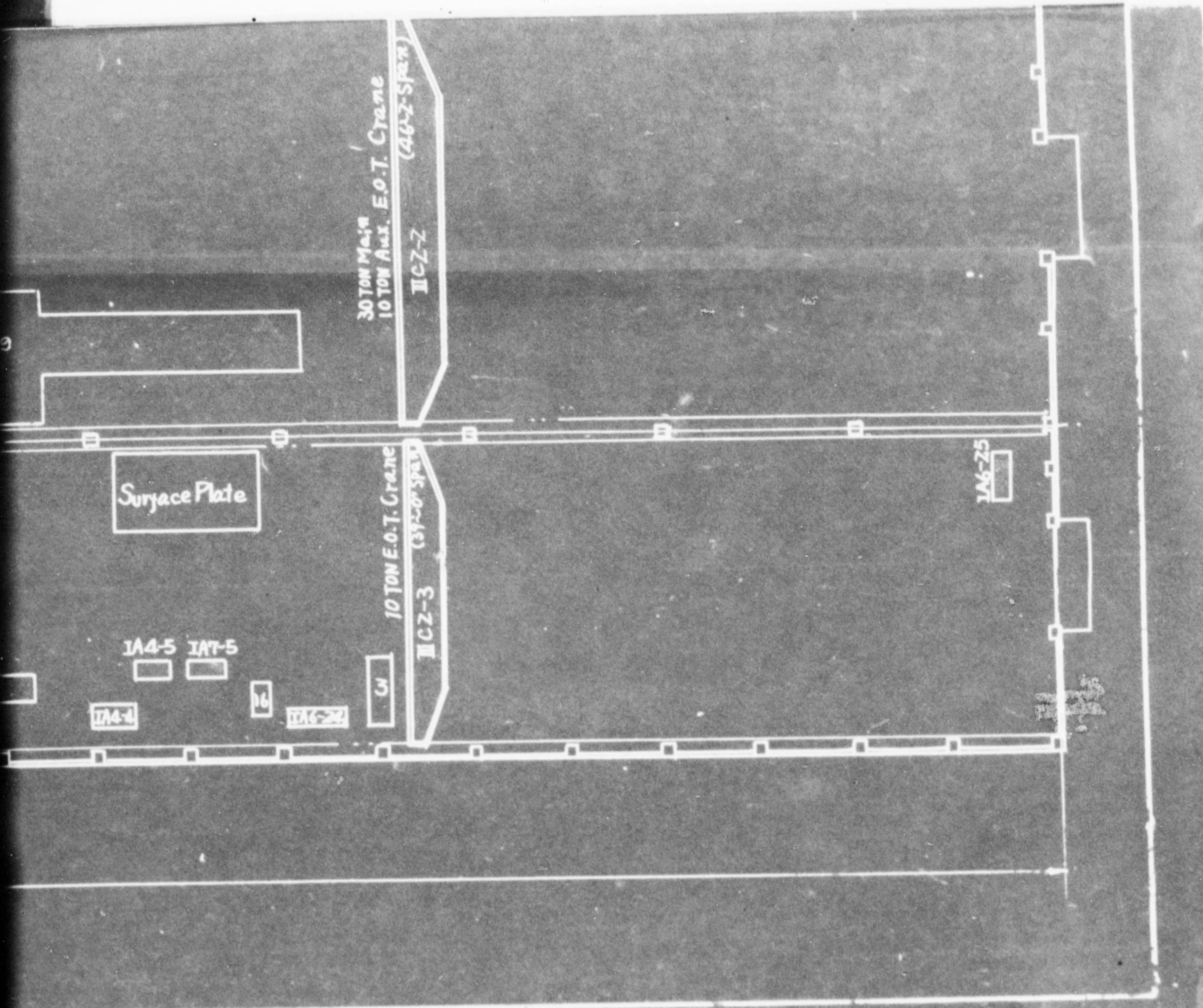
IA9-7

IA8-6

IA8-7

IA4-4

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GEAR CUTTING AND FINISHING MACH

CLASSIFICATION AND SPECIFICATION

1	2	3	4	5	6	7	8	9	10
Inventory Code No.	Type	Sub-Type	Number of Spindles	Maximum Diameter of Work mm	Maximum Width of Work mm	Maximum Diameter of Cutting Tool mm	Types of Gears that can be made on Machine	Maker's Name	Mo. & Series
IA4-1	Gear Hobbing Machine	Single Spindle	1	1,016 ϕ	305	200 ϕ 130 ϕ	Spur gear Herial gear Worm wheel	Kashihugi I. W.	
IA4-2	Gear Hobbing Machine	"	1	650 ϕ	230	130 ϕ	"	Kunitomo I. W.	Series 2
IA4-3	Gear Hobbing Machine	"	1	650 ϕ	230	200 ϕ	"	Kunitomo I. W.	Series 2
IA4-4	Gear Hobbing Machine	"	1	Max. pitch dia. of work 1,016 ϕ	406	200 ϕ	"	Karatu I. W.	
IA4-5	Gear Hobbing Machine	"	1	1,016 ϕ	305	200 ϕ 130 ϕ	"	Kashihugi I. W.	

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GR CUTTING AND FINISHING MACHINES

CLASSIFICATION AND SPECIFICATIONS

	7	8	9	10	11	12	13	14	15
mm	Maximum Diameter of Cutting Tool mm	Types of Gears that Can be made on Machine	Maker's Name	Model No. and Serial No.	Year of Manufacture	Weight in kgs	Overall Dimensions L - cm W - cm H - cm	G.S.D or I.M.D - Volts - Cycles - HP	Remarks
5	200φ 130φ	Spur gear Herial gear Worm wheel	Kashihugi I. W.		1940	700 3,613	135 235 225	I.M.D. 220V 60~ 3HP	
0	130φ		Kumitomo I. W.	Serial 253	1943	2,000 1,950	110 210 195	I.M.D. 220V 60~ 2HP	
7	200φ		Kumitomo I. W.	Serial 254	1943	2,000 1,950	110 210 195	I.M.D. 220V 60~ 2HP	
5	200φ		Karatu I. W.		1942	10,200 10,160	377 208 286	I.M.D. 220V 60~ 5HP	
7	200φ 130φ		Kashihugi I. W.		1940	3,700 3,613	135 235 225	I.M.D. 220V 60~ 3HP	

LATHES

CLASSIFICATION AND SPECIFICATION

1	2	3	4	5	6	7	8	9	10	M	S
Inventory Code No.	Type	Sub-Type	Swing Over Ways <small>mm</small>	Swing Over Carriage <small>mm</small>	Round Bar Capacity	Number of Spindles	Length Between Centers <small>mm</small>	Type of Turret and Diameter of Hole	Maker's Name		
IA6-1	Engine Lathe		460	270			870		Kubota I.W.		
IA6-2	Engine Lathe		460	270			870		Kubota I.W.		
IA6-3	Engine Lathe		460	270			870		Kubota I.W.		
IA6-4	Engine Lathe		460	270			870		Kubota I.W.		
IA6-5	Engine Lathe		460	270			870		Kubota I.W.		
IA6-6	Gap Lathe		750	350			1120		Kubota I.W.		
IA6-7	Gap Lathe		750	350			1120		Kubota I.W.		
IA6-8	Gap Lathe		750	350			1120		Kubota I.W.		
IA6-9	Gap Lathe		750	350			1120		Kubota I.W.		
IA6-10	Gap Lathe		750	350			1120		Kubota I.W.		
IA6-11	Gap Lathe		750	350			1120		Kubota I.W.		

LATHES

16.499

CLASSIFICATION AND SPECIFICATIONS

7	8	9	10	11	12	13	14	15	16
Number of spindles	Length Between Centers mm	Type of Turret and Diameter of Hole	Maker's Name	Model No and Serial No.	Year of Manufacture	Weight in KGS	Overall Dimensions L W H cm cm cm	C.S.D or I.M.D - Volts - Cycles - H.P.	Remarks
	870		Kubota I.W.		1939	2.000	240 105 110	I.M.D. 220V 60~ 5HP.	
	870		Kubota I.W.		1939	2.000	240 105 110	I.M.D. 220V 60~ 5HP.	
	870		Kubota I.W.		1939	2.000	240 105 110	I.M.D. 220V 60~ 5HP.	
	870		Kubota I.W.		1939	2.000	240 105 110	I.M.D. 220V 60~ 5HP.	
	870		Kubota I.W.		1939	2.000	240 105 110	I.M.D. 220V 60~ 5HP.	
	1.120		Kubota I.W.		1940	2.500	130 120 160	I.M.D. 220V 60~ 3HP.	
	1.120		Kubota I.W.		1940	2.500	130 120 160	I.M.D. 220V 60~ 3HP.	
	1.120		Kubota I.W.		1940	2.500	130 120 160	I.M.D. 220V 60~ 3HP.	
	1.120		Kubota I.W.		1939	2.500	130 120 160	I.M.D. 220V 60~ 3HP.	
	1.120		Kubota I.W.		1939	2.500	130 120 160	I.M.D. 220V 60~ 3HP.	
	1.120		Kubota I.W.		1939	2.500	130 120 160	I.M.D. 220V 60~ 3HP.	

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IA6-10	Gap Lathe		750	350			1.120		Kubota I.W.
IA6-11	Gap Lathe		750	350			1.120		Kubota I.W.
IA6-12	Gap Lathe		750	350			1.120		Kubota I.W.
IA6-13	Gap Lathe		750	350			1.120		Kubota I.W.
IA6-14	Gap Lathe		1.400	660			3.300		Kubota I.W.
IA6-15	Screw Cutting Lathe		210	120		1	3.300		American Tool
IA6-16	Gap Lathe		930	650			3.100		Takahashi I.W.
IA6-17	Gap Lathe		1.350	650			3.100		Takahashi I.W.
IA6-18	Gap Lathe		820	680			1.350		Kubota I.W.
IA6-19	Gap Lathe		520	340			1.750		Kubota I.W.
IA6-20	Gap Lathe		520	260			1.750		Kubota I.W.
IA6-21	Engine Lathe		460	300			1.350		Shimizu I.W.
IA6-22	Gap Lathe		750	350			1.120		Kubota I.W.
IA6-23	Gap Lathe		750	350			1.120		Kubota I.W.
IA6-24	Screw Cutting Lathe			250		1	3.100		Lodge and Shipley
IA6-25	Engine Lathe		260	180			580		Kubota I.W.

	1.120	Kubota I.W.		1939	2.500	130 120 160	I.M.D 220V 60~ 3HP
	1.120	Kubota I.W.		1939	2.500	130 120 160	I.M.D 220V 60~ 3HP
	1.120	Kubota I.W.		1939	2.500	130 120 160	I.M.D 220V 60~ 3HP
	1.120	Kubota I.W.		1939	2.500	130 120 160	I.M.D 220V 60V 3HP
	3.300	Kubota I.W.	Model No. 2012	1942	6.500	570 135 140	I.M.D 220V 60~ 15HP
1	3.300	American Tool		1939	6.000	490 125 135	I.M.D 220V 60~ 7.5HP
	3.100	Takahashi I.W.	Serial No 1429-4	1941	6.000	610 172 144	I.M.D 220V 60~ 10HP
	3.100	Takahashi I.W.	Serial No 1429-3	1941	6.000	610 172 144	I.M.D 220V 60~ 10HP
	1.350	Kubota I.W.		1918	3.000	375 210 180	I.M.D 220V 60~ 2HP
	1.750	Kubota I.W.		1918	1.600	345 180 135	I.M.D 220V 60~ 3HP
	1.750	Kubota I.W.		1918	1.600	300 180 150	I.M.D 220V 60~ 2HP
	1.350	Shimizu I.W.		1918	1.700	270 180 150	I.M.D 220V 60~ 3HP
	1.120	Kubota I.W.		1941	2.500	310 120 160	I.M.D 220V 60~ 3HP
	1.120	Kubota I.W.		1941	2.500	310 120 160	I.M.D 220V 60~ 3HP
1	3.100	Lodge and Shipley	0103316	1938	6.000	510 130 140	I.M.D 220V 60~ 7.5HP
	580	Kubota I.W.		1941	1.000	175 105 130	I.M.D 220V 60~ 2HP

MILLING MACHINES

CLASSIFICATION AND SPECIFICATIONS

1	2	3	4	5	6	7	8	9	10
Inventory Code No.	Type	Sub-Type	Overall Table Size LxW mm	Table Travel Longitudinal Cross and Vertical mm	Number of Spindles	Spindle Taper Number	Diameter of Arbor mm	Center of Spindle to Top of Table mm	Maker's Name
IA7-1	Knee Type Horizontal	Plain Universal Manufacturing	L 710 W 305 L 1340 W 310	L 255 710 C 305 V 483	1	Morse Taper No. 2	25φ	400 515	Osaka Kiko
IA7-2	Knee Type Horizontal	"	L 710 W 305 L 1340 W 310	L 255 710 C 305 V 440 483	1	Morse Taper No. 2	25φ	400 515	Osaka Kiko
IA7-3	Thread Milling Machine	External	—	Center distance 3.700	1	Spindle dia 25φ	—	—	J. E. Reinecker
IA7-4	Knee Type Vertical	Standard Vertical Manufacturing	L 1280 W 400	L 220 C 620 V 320	1	Morse Taper No. 3	55φ		Kubota I. W.
IA7-5	Knee Type Vertical	"	L 1120 W 260	L 200 C 580 V 270	1	Morse Taper No. 3	50φ	230	Yashigaka Zuki

LING MACHINES

No. 5 of 9

CLASSIFICATION AND SPECIFICATIONS

7	8	9	10	11	12	13	14	15	16
Spindle Taper Number	Diameter of Arbor mm	Center of Spindle to Top of Table mm	Maker's Name	Model No. and Serial No.	Year of Manufacture	Weight in Kgs	Overall Dimensions L - cm W - cm H - cm	C.S.D. or I.M.D. - Voltages - Cycles - HP	Remarks.
Morse Taper No. 2	25φ	400 515	Osaka Kikō	No. 2	1940	3.300 3.000	115 220 170	I.M.D. 220V 60~ 5HP	
Morse Taper No. 2	25φ	400 515	Osaka Kikō	No. 2	1940	3.300 3.000	115 220 170	I.M.D. 220V 60~ 5HP	
Spindle dia 25φ	—	—	J.E. Reinecker		1940	7.000	470 135 140	I.M.D. 220V 60~ 3HP	
Morse Taper No. 3	55φ		Kubota I.W.		1919	4.000	200 170 220	I.M.D. 220V 60~ 3HP	
Morse Taper No. 3	50φ	230	Yashigaki Zeki		1940	3.600 2,800	175 140 165	I.M.D. 220V 60~ 5HP	

PLANERS

CLASSIFICATION AND SPECIFICATION									
1	2	3	4	5	6	7	8	9	Mo. N. Ser. N.
Inventory Code NO.	Type	Sub-Type	Number of Heads	Distance Between Housings mm	Maximum Distance Between Platen (Table) and Cross Rail mm	Maximum Stroke mm	Platen or Table Size L - mm W - mm	Maker's Name.	
IA8-1	Open Side		3	—	1.300	6.100	6.600 1.500	Osaka Kiko	
IA8-2	Double Housing		4	2.550	2.000	12.000	6,500 13,000 2.200	Kubota IW.	Mo. No. 4EC
IA8-3	'		2	1.290	1.300	2.440	2,690 760	Tagiri IW.	
IA8-4	'		4	1.520	1.500	5.000	5.400 1.300	Kubota IW.	Mo. B-
IA8-5	'		4	2.800	2.760		5.500 2.140	'	
IA8-6	'		3	920	600	3.660	4.000 770	Osaka Kiko	
IA8-7	Open Side		3	—	1.180	4.000	3.950 830	'	

PLANERS

No. 6 9 9

DESCRIPTION AND SPECIFICATIONS

7	8	9	10	11	12	13	14	15
Maximum Stroke mm	Platen or Table Size L - mm W - mm	Maker's Name	Model No. & Serial No.	Year of Manufacture	Weight in Kgs	Overall Dimensions L - cm W - cm H - cm	C.S.D or I.M.D - Volts - Cycles - HP	Remarks
6.100	6.600 1.500	Osaka Kikō		1941	39.500	7520 450 385	I.M.D. 220V 60~ 30HP, 5HP, 15HP	
12.000	6.500 13.000 2.200	Kubota I.W.	Model No. 4EC-625	1943	75.000	2565 578 420	80HP, 60HP 50HP, 4HP, 3HP	
2.440	2.690 760	Tagiri I.W.		1939	8.000	385 275 290	3HP	
5.000	5.400 1.300	Kubota I.W.	Model No. B-515	1943	30.000	1100 395 393	25HP, 20HP, 14HP	
	5.500 2.140	,		1919	45.000		30HP	
3.660	4.000 770	Osaka Kikō		1940	12.000	790 240 320	15HP	
4.000	3.950 830	,		1940	14.000		I.M.D. 220V 60~ 15HP	

SHAPERS AND SLOTTERS

CLASSIFICATION AND SPECIFICATIONS

1	2	3	4	5	6	7	8	9
Inventory Code NO.	Type	Sub-Type	Maximum Stroke of Ram mm	Maximum Travel of Tool-Head Slide mm	Maximum Work Table Travel Horizontal mm Vertical mm	Work Table Dimensions L mm W mm	Maker's Name	Model No. & Serial N
IA9-1	Horizontal Shaper		610	200	H. 630 760 V. 350	690 405	Nakagawa Machine Work	
IA9-2	,		610	200	H. 630 760 V. 350	690 405	,	
IA9-3	,		610	200	H. 630 760 V. 350	690 405	,	
IA9-4	,		610	200	H. 630 760 V. 350	690 405	,	
IA9-5	,		610	200	H. 630 760 V. 350	690 405	,	
IA9-6	,		610	200	H. 630 760 V. 350	690 405	Nakagawa Machine Work	
IA9-7	Horizontal Shaper	32" B.G. Crank Shaper	610	140	640 310	900 660	Cincinnati Shaper	
IA9-8	Vertical Slotter		610		670 410	Table Dia 1400φ	Kubota I.W.	
IA9-9	Vertical Slotter		200		280 330	Table Dia 650φ	Kubota I.W.	
IA9-10	Hack-Saw		Stroke saw 152	-	-	dimension of Bar to be cut 203 x 203	Sugimoto I.W.	

SHAPERS AND SLOTTERS

No. 7 9 9

CLASSIFICATION AND SPECIFICATIONS

6	7	8	9	10	11	12	13	14
Maximum Work Table Level Horizontal mm Vertical mm	Work Table Dimensions L mm W mm	Maker's Name	Model No & Serial No.	Year of Manufacture	Weight in kgs	Over-all Dimensions L - cm W - cm H - cm	C.S.D or I.M.D. - Volts - Cycles - HP	Remarks
760 630 350	690 405	Nakagawa Machine Work		1940	3400	245 145 186	I.M.D. 220V 60 5HP	
760 630 350	690 405	"		1941	3400	245 145 186	" " 5HP	
760 630 350	690 405	"		1943	3400	245 145 186	" " 5HP	
760 630 350	690 405	"			3400	245 145 186	" " 5HP	
760 630 350	690 405	Nakagawa Machine Work		1943	3400	245 145 186	" " 5HP	
640 310	900 660	Cincinnati Shaper		1919	4500	230 220 190	" " 5HP	
670 410	Table Dia 1400φ	Kubota I.W.		1918	12000	360 195 380	" " 7.5HP	
280 330	Table Dia 650φ	Kubota I.W.		1918	3000	230 140 250	" " 7.5HP	
-	dimension of Bar to be cut 203 x 203	Sugimoto I.W.		1939	850 875	150 660 117	I.M.D. 220V 60 1HP	

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PRIMARY ELECTRIC POWER TRANSMISSION AND D

Inventory Code No.	Name of Machine	Type	Size or Capacity	Maker's Name	Year of Manufacture
II B1-1	Power Transformer		100 KVA Single Phase P.V. 3,300V S.V. 220V	Osaka Henatuki K.K.	1941
II B1-2	Power Transformer		100 KVA Single Phase P.V. 3,300V S.V. 220V	Osaka Henatuki K.K.	1941
II B1-3	Power Transformer		100 KVA Single Phase P.V. 3,300V S.V. 220V	Osaka Henatuki K.K.	1941
II B2-1	Switch Board			Nishira Kogyo K.K.	1943

775013

POWER TRANSMISSION AND DISTRIBUTION EQUIPMENT

No. 8 & 9

Capacity	Maker's Name	Year of Manufacture	Weight in Kgs	Overall Dimensions L - cm W - cm H - cm	C.S.D. or I.M.D. - Volts - Cycles - HP	Remarks
Phase 200V 20V	Osaka Henatuki K.K.	1941	800	90 80 120	60 ~	Serial No. 509652
Phase 200V 20V	Osaka Henatuki K.K.	1941	800	90 80 120	60 ~	Serial No. 509657
Phase 200V 20V	Osaka Henatuki K.K.	1941	800	90 80 120	60 ~	Serial No. 509656
	Nishira Kogyo K.K.	1943		240 200 80	60 ~	

775013

MISCELLANEOUS MACHINERY AND EQUIPMENT

Inventory Code No.	Name of Machine	Type	Size or Capacity	Maker's Name	Year of Manufacture	W
III C2-1	Crane	Over Head Travelling	Load 5 ^{kg} ton	Kubota & Higashijima	1943	
III C2-2	Crane	Over Head Travelling	Load Main 30 ^{ton} Aux 10 ^{ton}	Kubota & Nisshin	1943	
III C2-3	Crane	Over Head Travelling	Load 10 ^{ton}	Kubota & Higashijima	1943	

775013

MACHINERY AND EQUIPMENT

No. 999

City	Maker's Name	Year of Manufacture	Weight in Kgs	Overall Dimensions L - cm W - cm H - cm	C.S.D or I.M.D. - Volts - Cycles - HP	Remarks
oton	Kubota & Higashijima	1943	6.500	670 320 350	I. M. D 220V 60~ 10HP 10HP 3HP	
oton oton	Kubota & Nisshin	1943	29.500	1450 430 490	I. M. D 220V 60~ 40HP 20HP 10HP 25HP	
on	Kubota & Higashijima	1943.	11.000	1220 340 400	I. M. D 220V 60~ 20HP 15HP 5HP	