

3PH 3W 66KV 50HZ

MINERAL DRESSING PLANT

CATIRI PUMP STATION

ORE RECEIVING SECTION

CRUSHING AND GRINDING SECTION

SIZING, CONCENTRATION, FLCTATION SECTION

SIGLO XX

AERIAL 3KM HDCC 100

PDS

CB

PDS

AERIAL 2.5 KM ACSR 160P

WB

PDS

CB

MOF

LA

3PH TR 15 MVA 6KV/3KV

3PH TR 10 MVA 6KV/3KV

PD

3PH TR 1500KVA 11KV/3KV

CLF

CLF

ACB

MCB

MCB

M

M

S

HV MOTOR 4-370KW

SC 300KA

3PH 1500 11KV

CB

CB

CB

CLF

ACB

ACB

ACB

ACB

CLF

CLF

ACB

ACB

ACB

ACB

ACB

CLF

CLF

ACB

ACB

ACB

MCTT

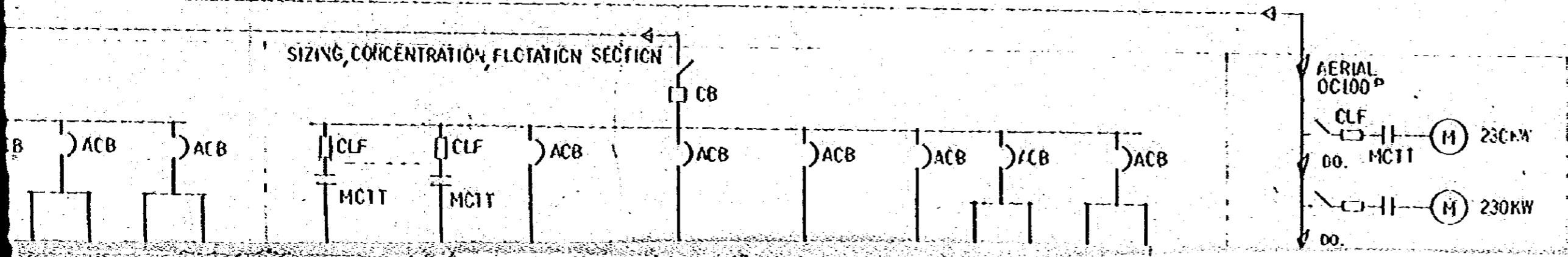
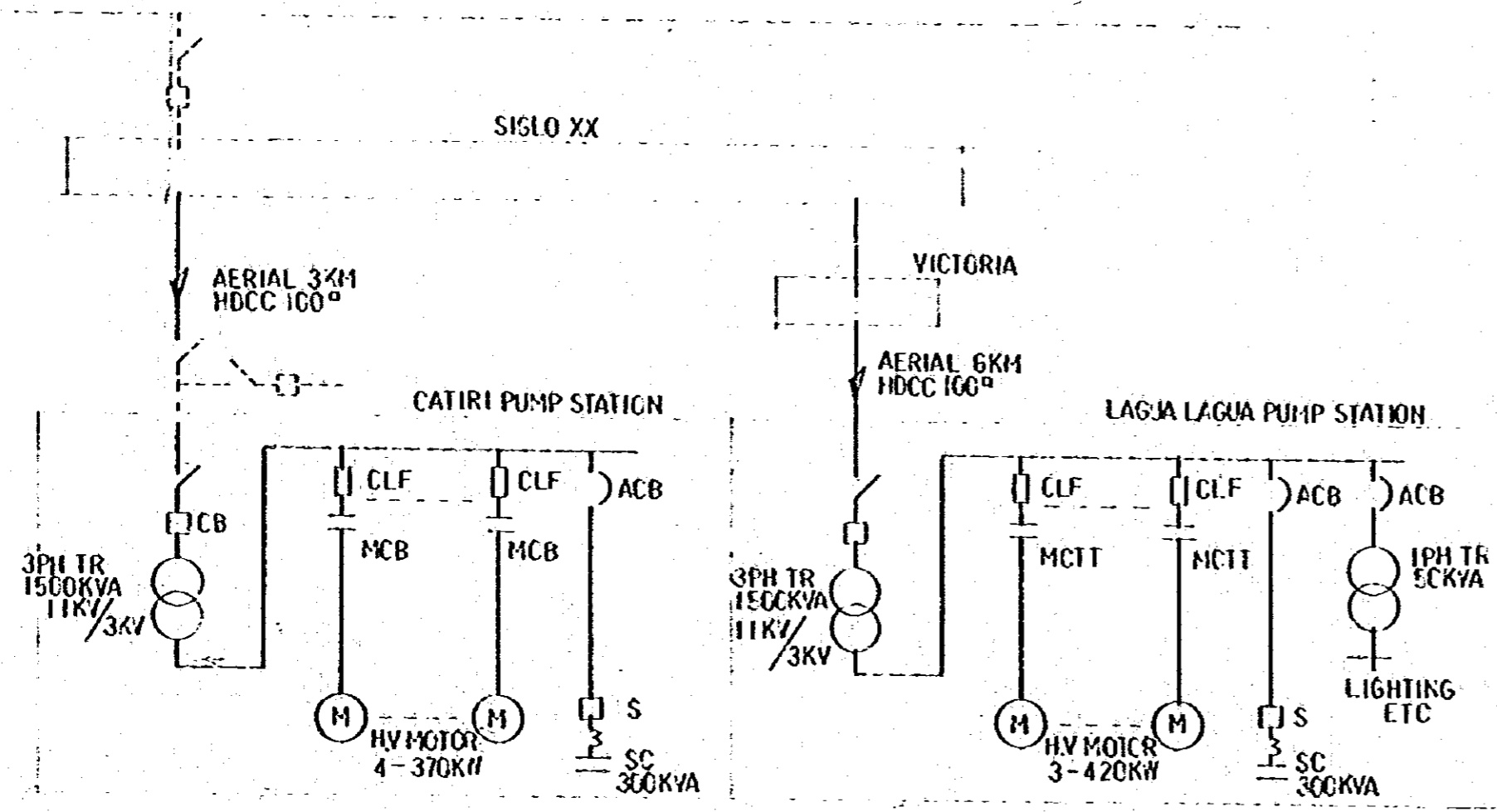
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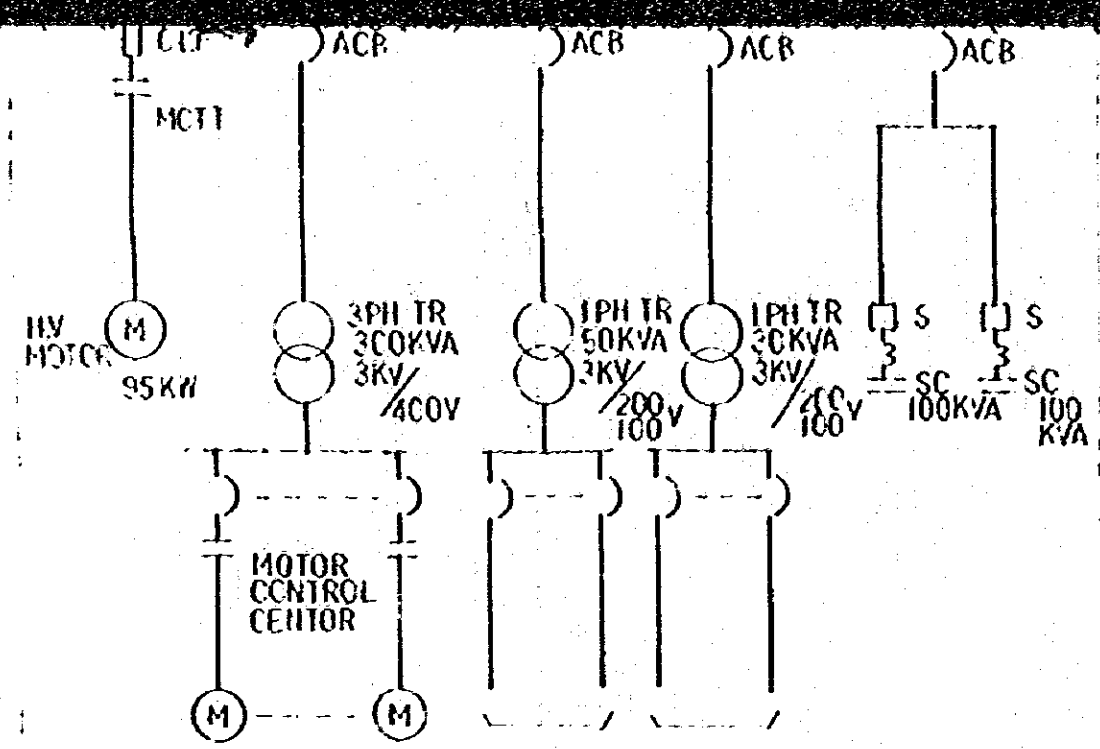
MCTT

MCTT

MCTT

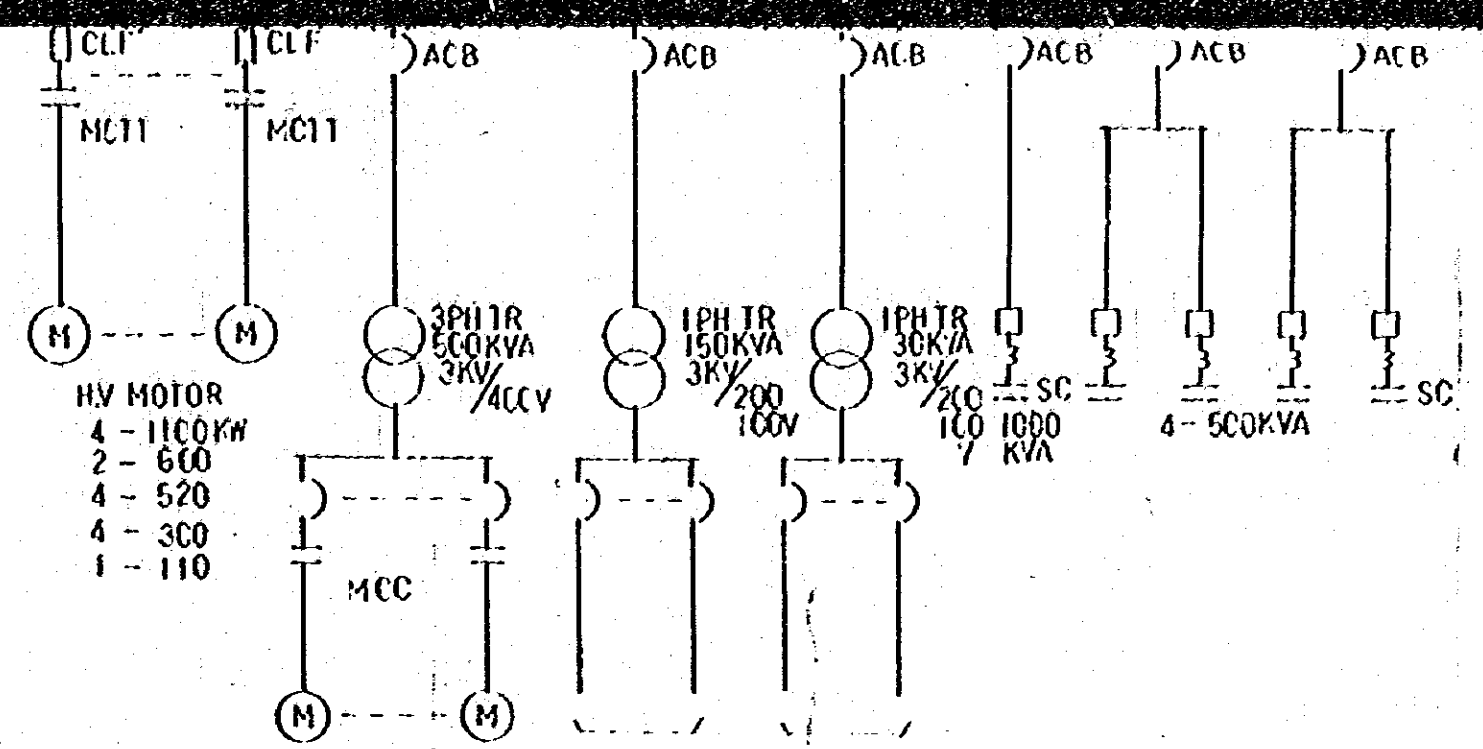
MCTT





- LV MOTOR
- 1 - 75
 - 1 - 45
 - 2 - 22
 - 4 - 11
 - 6 - 7.5
 - 1 - 5.5
 - 1 - 3.7

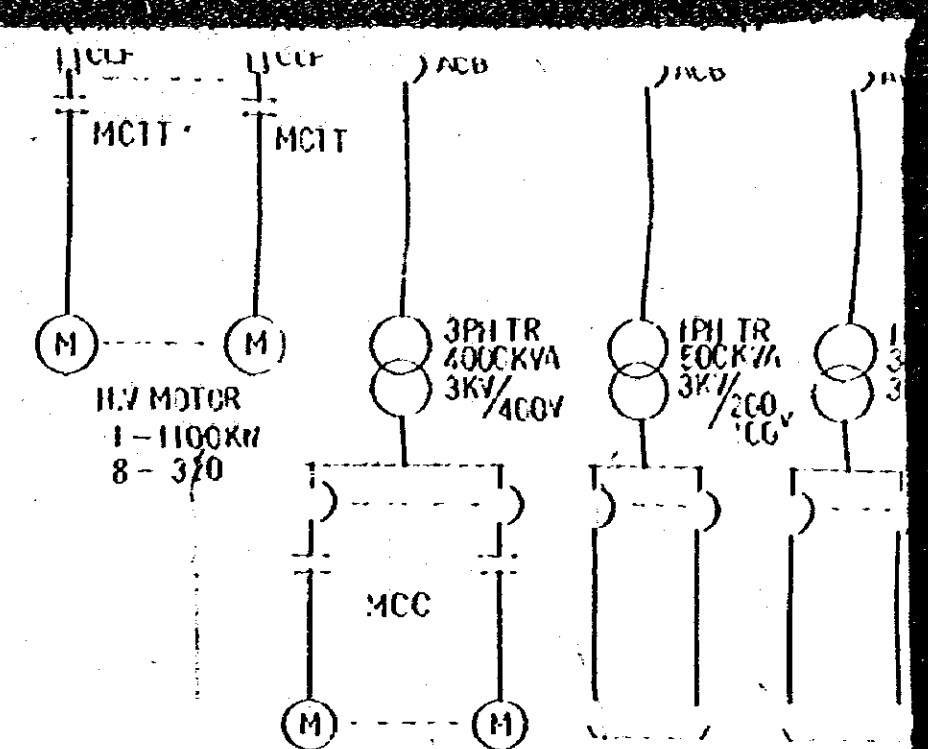
LIGHTING INSTRUMENTS ETC



- HV MOTOR
- 4 - 1100KW
 - 2 - 600
 - 4 - 520
 - 4 - 300
 - 1 - 110

- LV MOTOR
- 1 - 55
 - 8 - 45
 - 7 - 37
 - 3 - 25
 - 11 - 22
 - 2 - 15
 - 14 - 7.5
 - 25 - 5.5
 - 6 - 2.2
 - 73 - 1.5

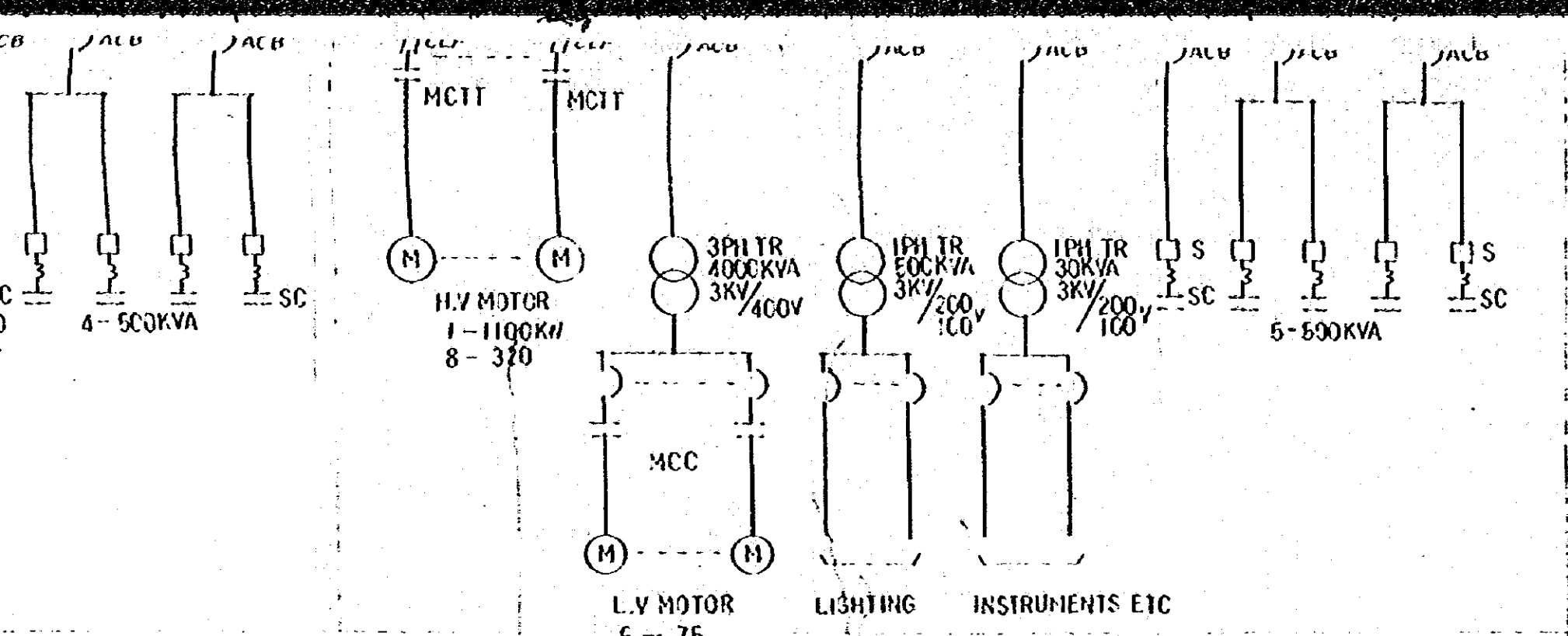
LIGHTING INSTRUMENTS ETC



- HV MOTOR
- 1 - 1100KW
 - 8 - 370

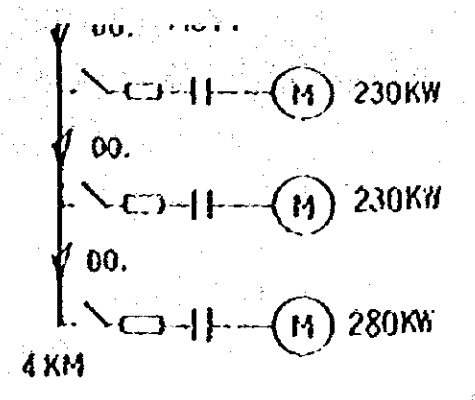
- L.V MOTOR
- 6 - 75
 - 5 - 55
 - 5 - 37
 - 7 - 22
 - 1 - 19
 - 15 - 15
 - 7 - 11
 - 3 - 7.5
 - 6 - 5.5
 - 15 - 3.7
 - 11 - 2.2
 - 2 - 1.9
 - 1029 - 1.5

LIGHTING INSTRUMENTS ETC



L.V. MOTOR

6	75
5	55
5	37
7	22
1	19
15	15
7	11
3	75
6	55
15	37
11	22
2	19
1029	15



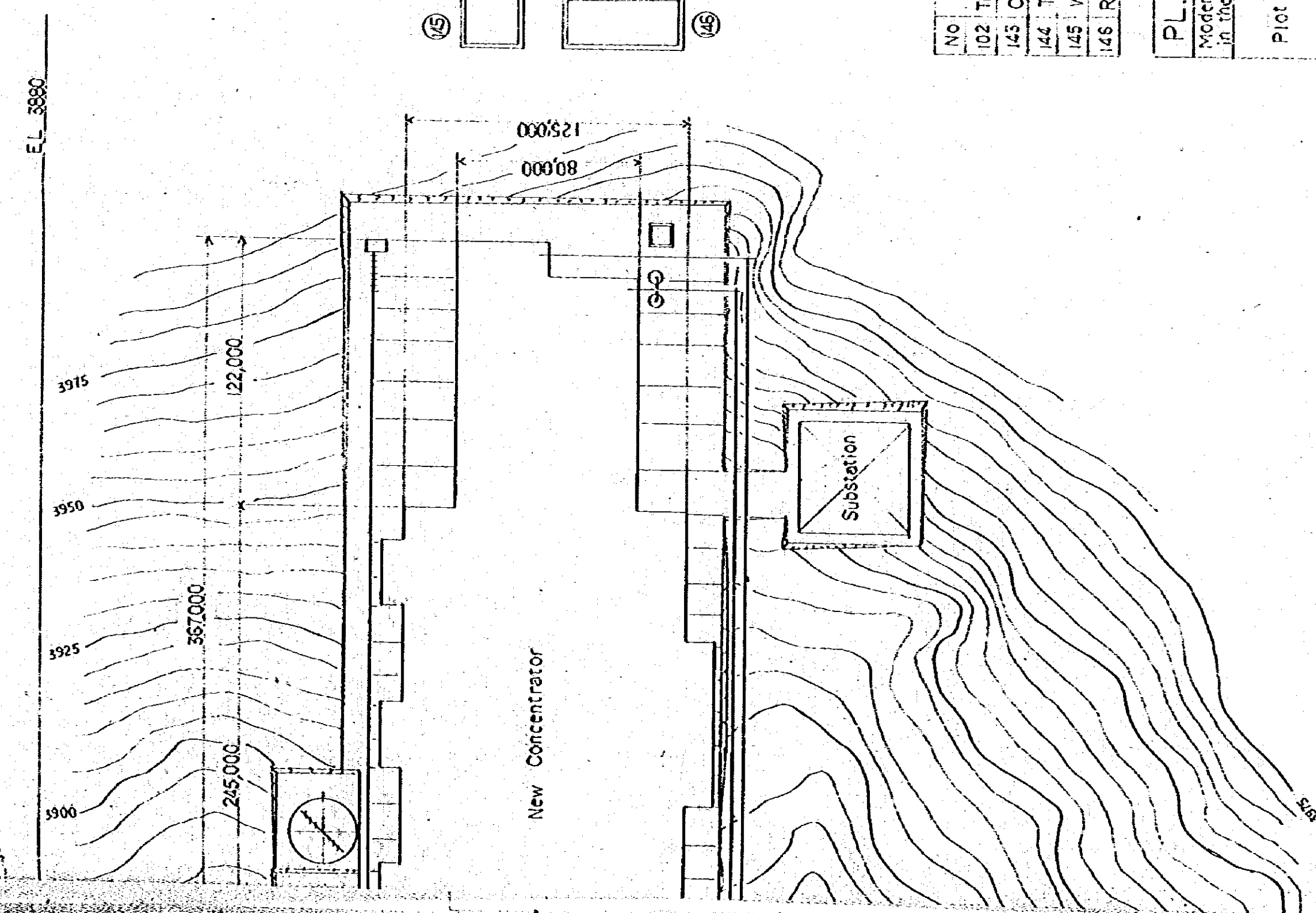
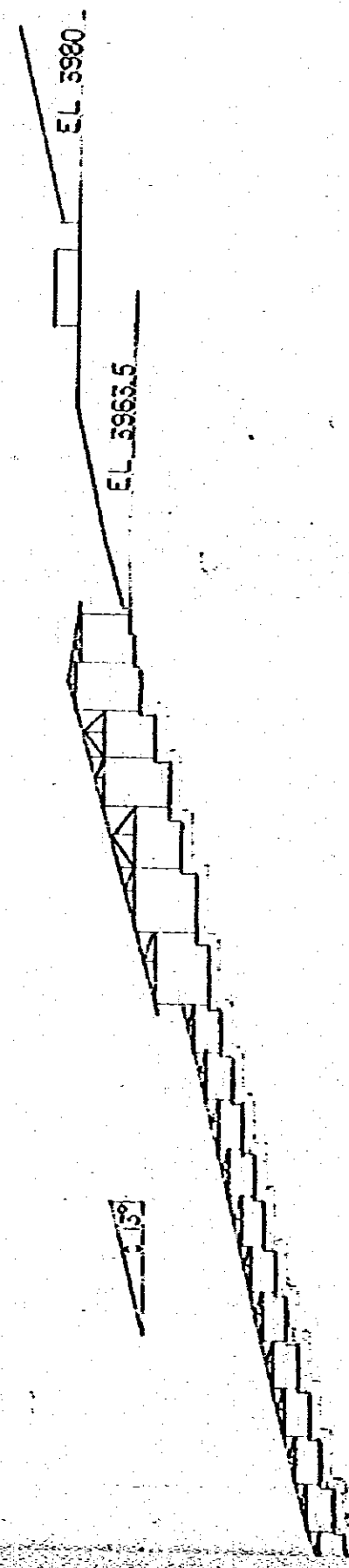
DAM SECTION

PL. II - 3
 Modernization of Mining Facilities
 in the Republic of Bolivia

Single Line Diagram of New Mill Plant

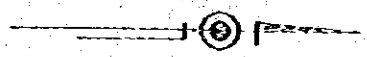
Japan International Cooperation Agency

Date 5. Dec. 1982



No	Name	Qty	Size	Kw
102	Thickener	1	55mφ	37Kw x 2
143	Cyclone	9	36"φ	
144	Thickener	1	96mφ	37Kw x 3
145	Water Tank	1	2000t	
146	Recovery Water Tank	1	5000t	

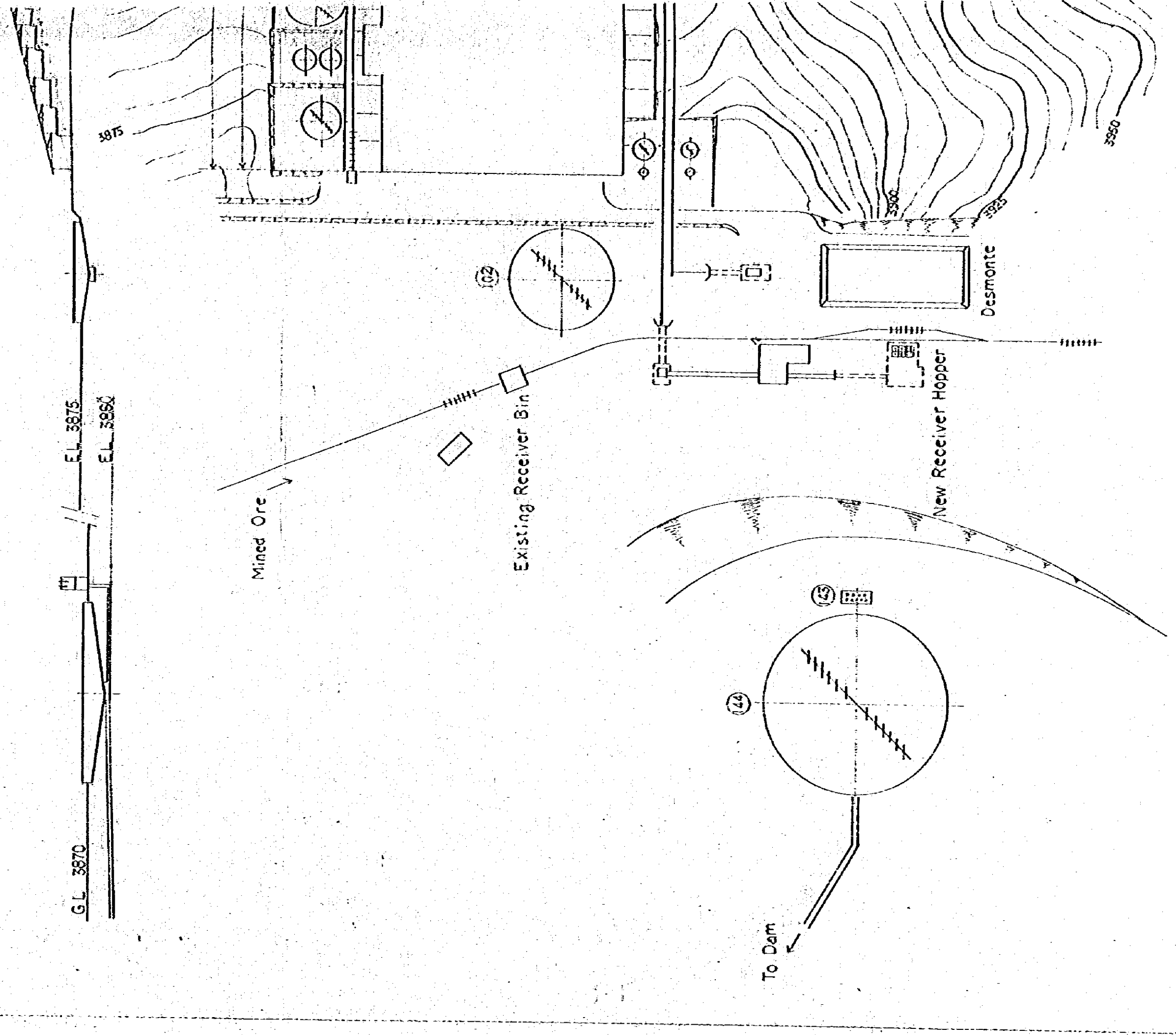
PL. II-4
 Modernization of Mining Facilities
 in the Republic of Bolivia
 Plot Plan of New Mill Plant
 Japan International Cooperation Agency
 Date 3. Dec. 1982 Scale 1:2000



GL 3870

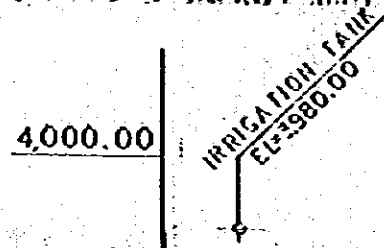
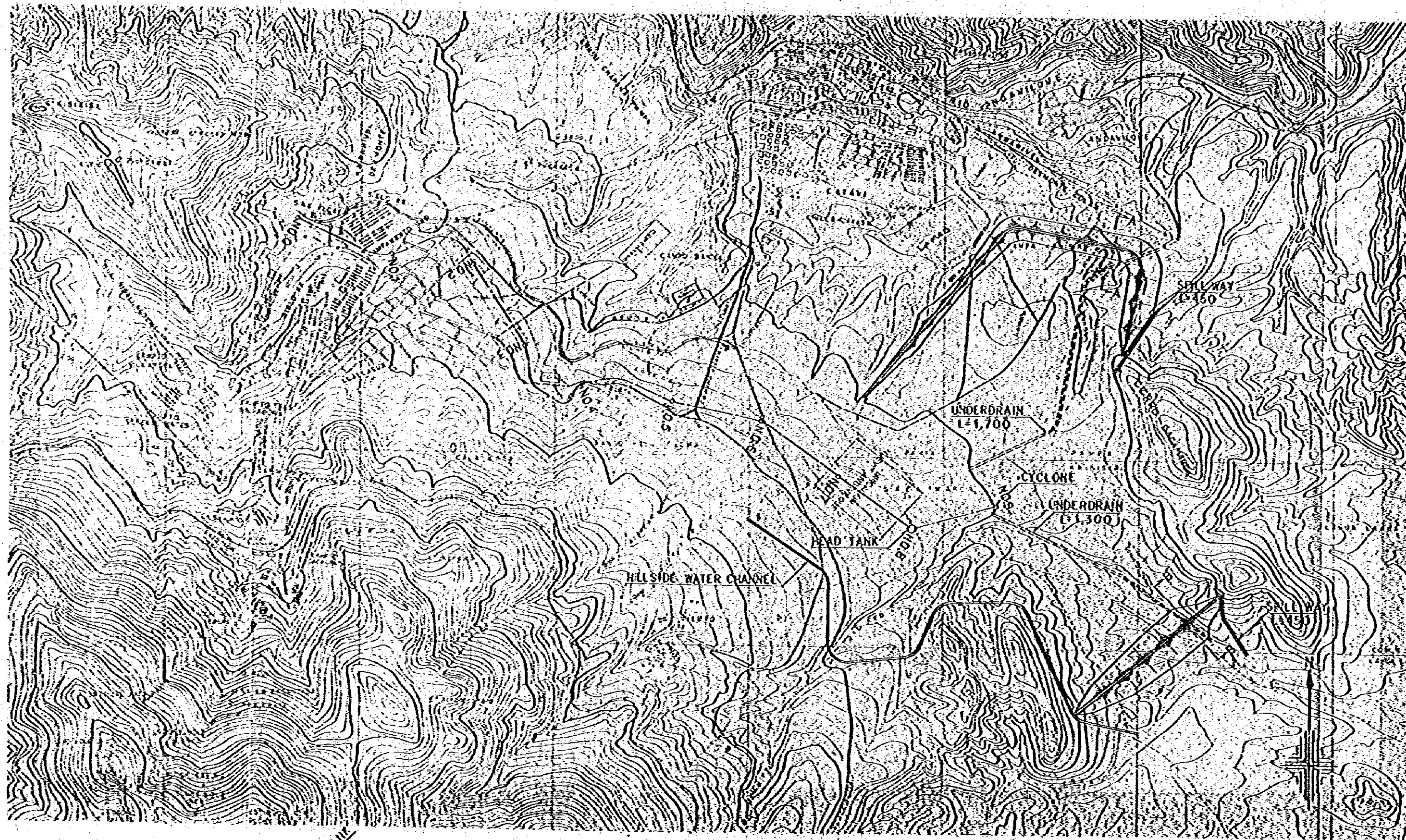
EL. 3875

EL. 3860

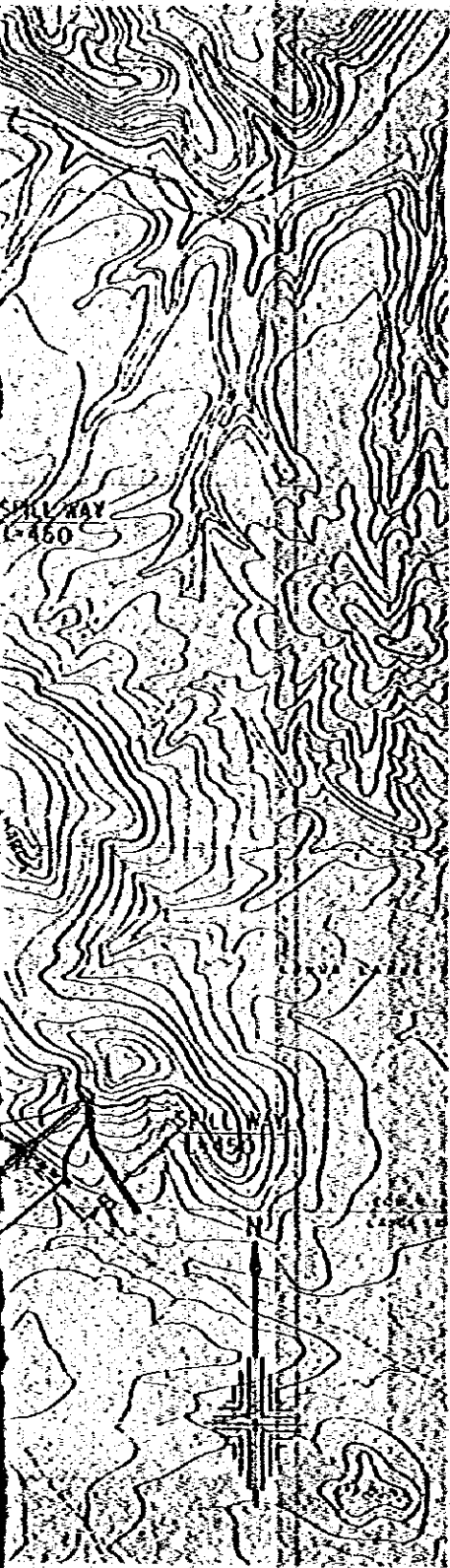


P L A N

S = 1/20,000



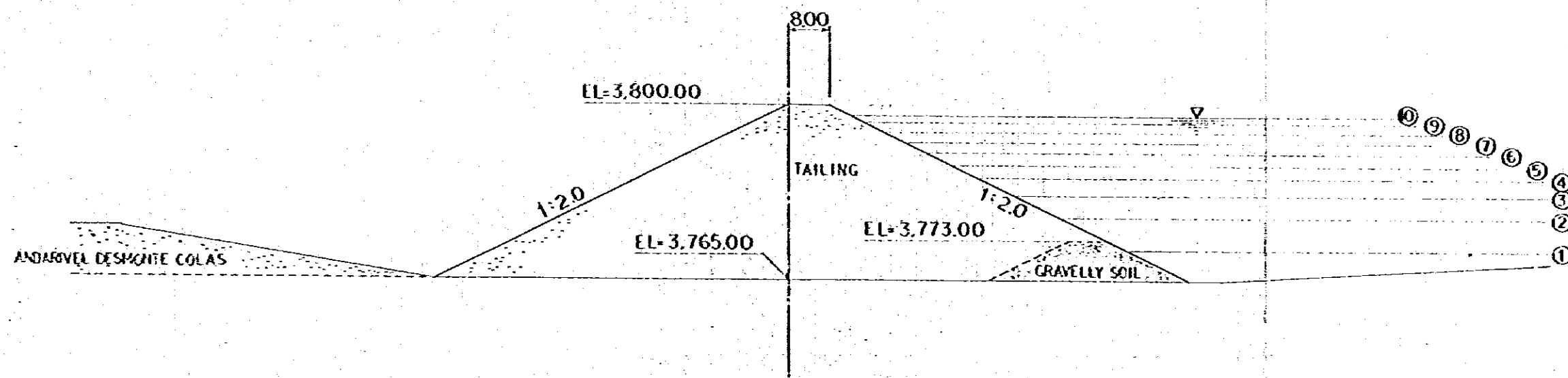
LONGITUDINAL SECTION



TYPICAL SECTION OF DAM

$\xi = 1/1,000$

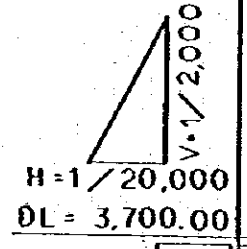
A-A SECTION



B-B SECTION

10.00

A scale bar for the B-B section, showing a length of 10.00 units.



3,900.00

3,800.00

SICHER U.F.

CHANNEL

HEAD TANK

CYCLONE

DAM LEVEL
EL=3,800.00

PIPE

STATION	DISTANCE	ACCUMULATED DISTANCE	GROUND HEIGHT	PROPOSED HEIGHT	GRADE
NO. 0	0.00	0.00	3.860.00	3.860.00	3.860.00
NO. 1	500.00	500.00	3.855.00	3.855.00	
NO. 2	500.00	1,000.00	3.850.00	3.850.00	
NO. 3	500.00	1,500.00	3.845.00	3.845.00	
NO. 4	500.00	2,000.00	3.840.00	3.840.00	
NO. 5	500.00	2,500.00	3.835.00	3.835.00	
NO. 6	500.00	3,000.00	3.830.00	3.830.00	
NO. 7	500.00	3,500.00	3.825.00	3.825.00	
NO. 8	500.00	4,000.00	3.820.00	3.820.00	3.820.00
NO. 9	500.00	4,500.00	3.800.00	3.805.00	3.805.00

$i = 1.00\%$
 $L = 4,000.00$

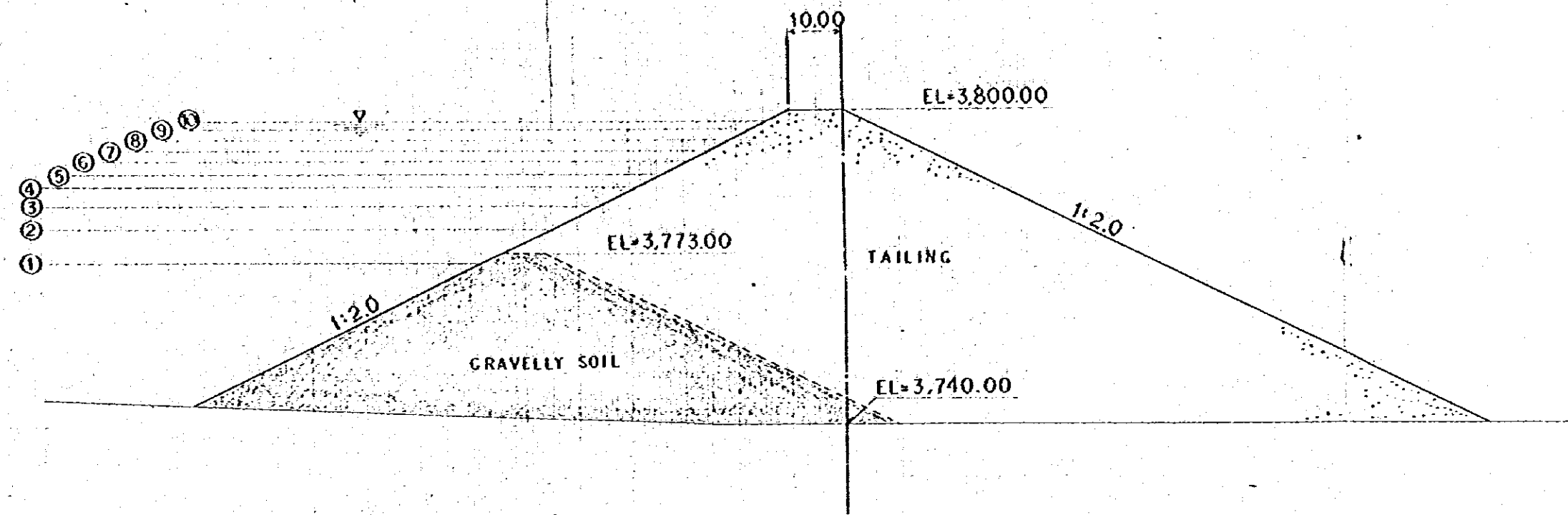
$i = 3.00\%$
 $L = 500.00$

- ④
- ③
- ②
- ①

YEAR

- ①
- ②
- ③
- ④
- ⑤
- ⑥
- ⑦
- ⑧
- ⑨
- ⑩

1:2.0



ONE

DAM LEVEL
EL=3800.00

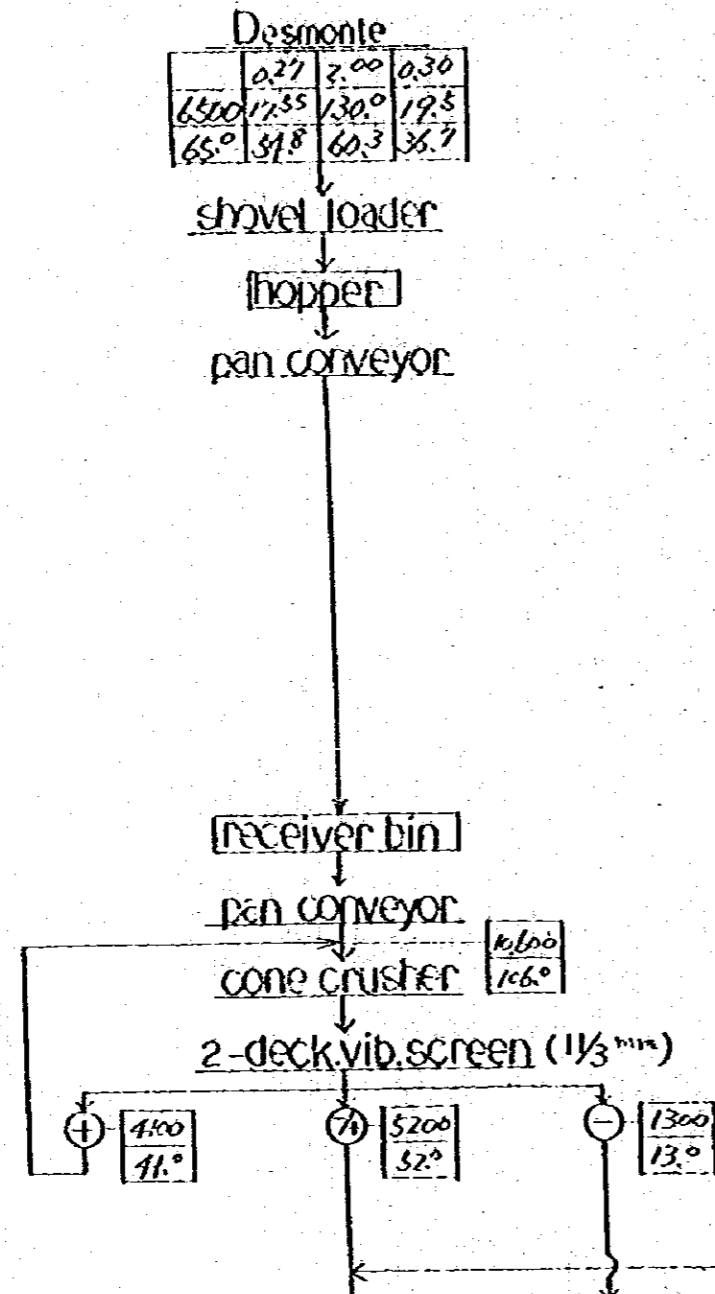
YEAR	ELEVATION LEVEL OF TAILING DAM
①	3.771.00
②	3.777.50
③	3.782.00
④	3.785.50
⑤	3.788.00
⑥	3.790.50
⑦	3.792.50
⑧	3.794.50
⑨	3.796.50
⑩	3.798.00

PL. II - 5
 Modernization of Mining Facilities
 in the Republic of Bolivia

 Plan of Tailings Disposal

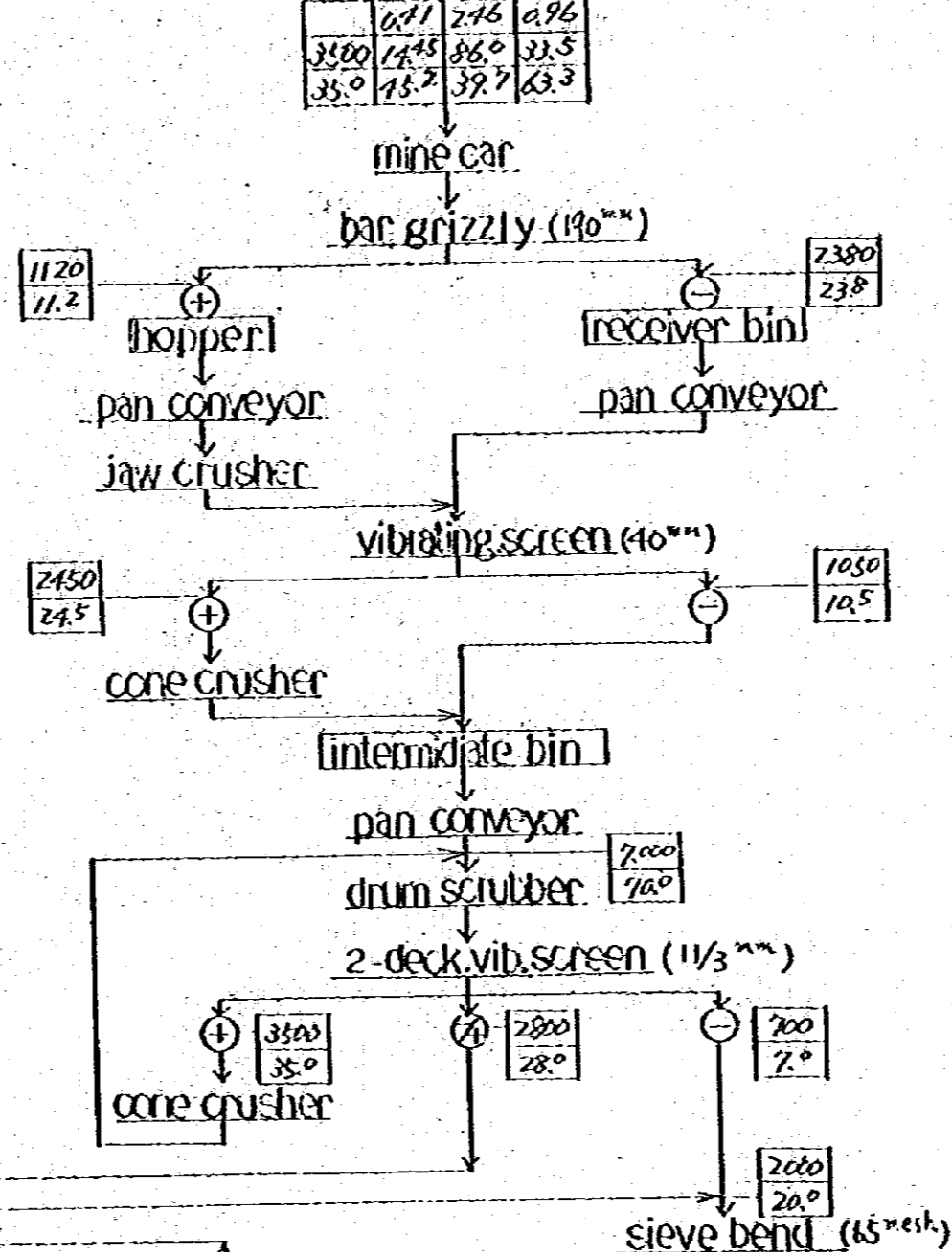
 Japan International Cooperation Agency
 Date 31 Jan. 1983

① Receiver and Crushing Process

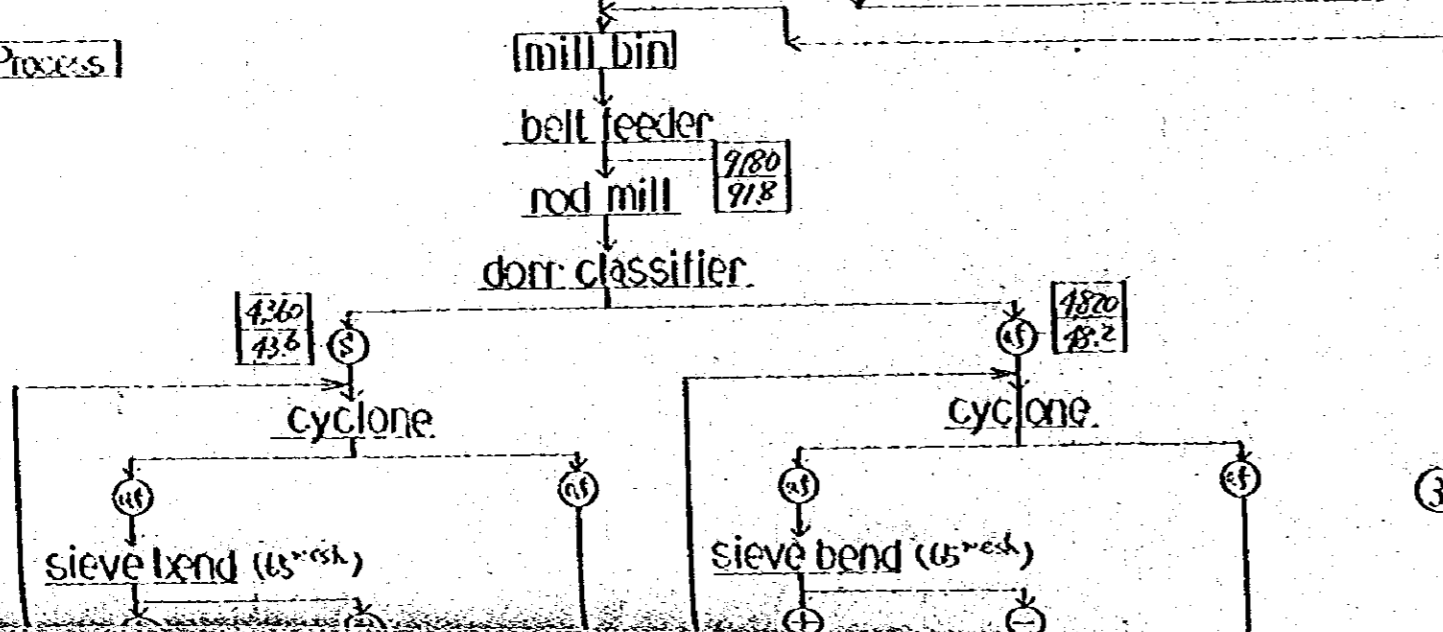


Block Central

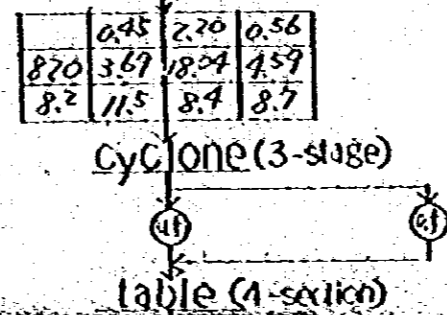
	0.71	2.46	0.96
35.0	14.45	86.0	33.5
35.0	15.2	39.7	63.3



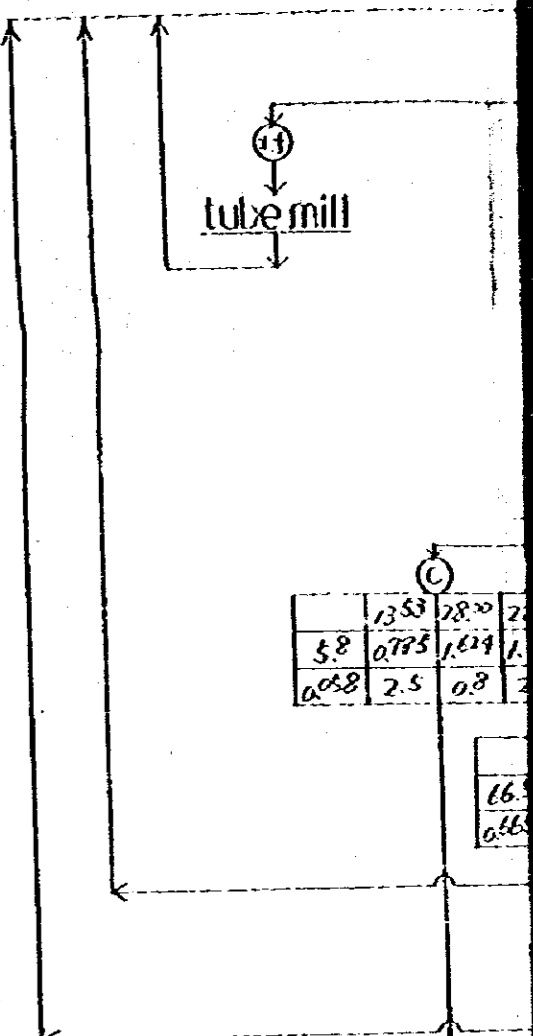
② Grinding Process



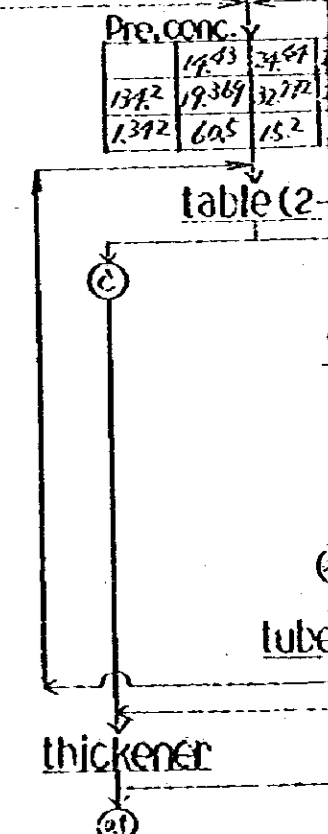
③ Primary slime Table Process

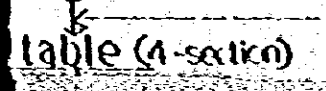
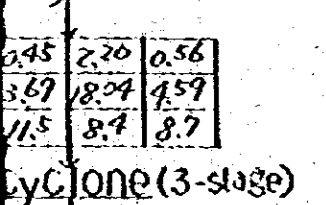
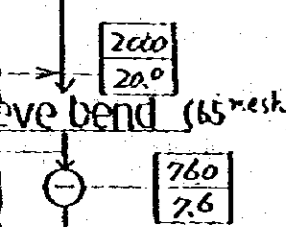
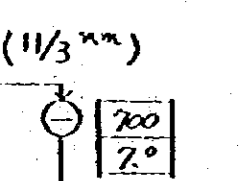
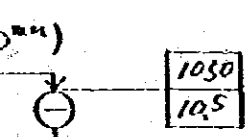
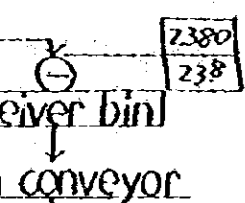


⑤ Middling Table Process

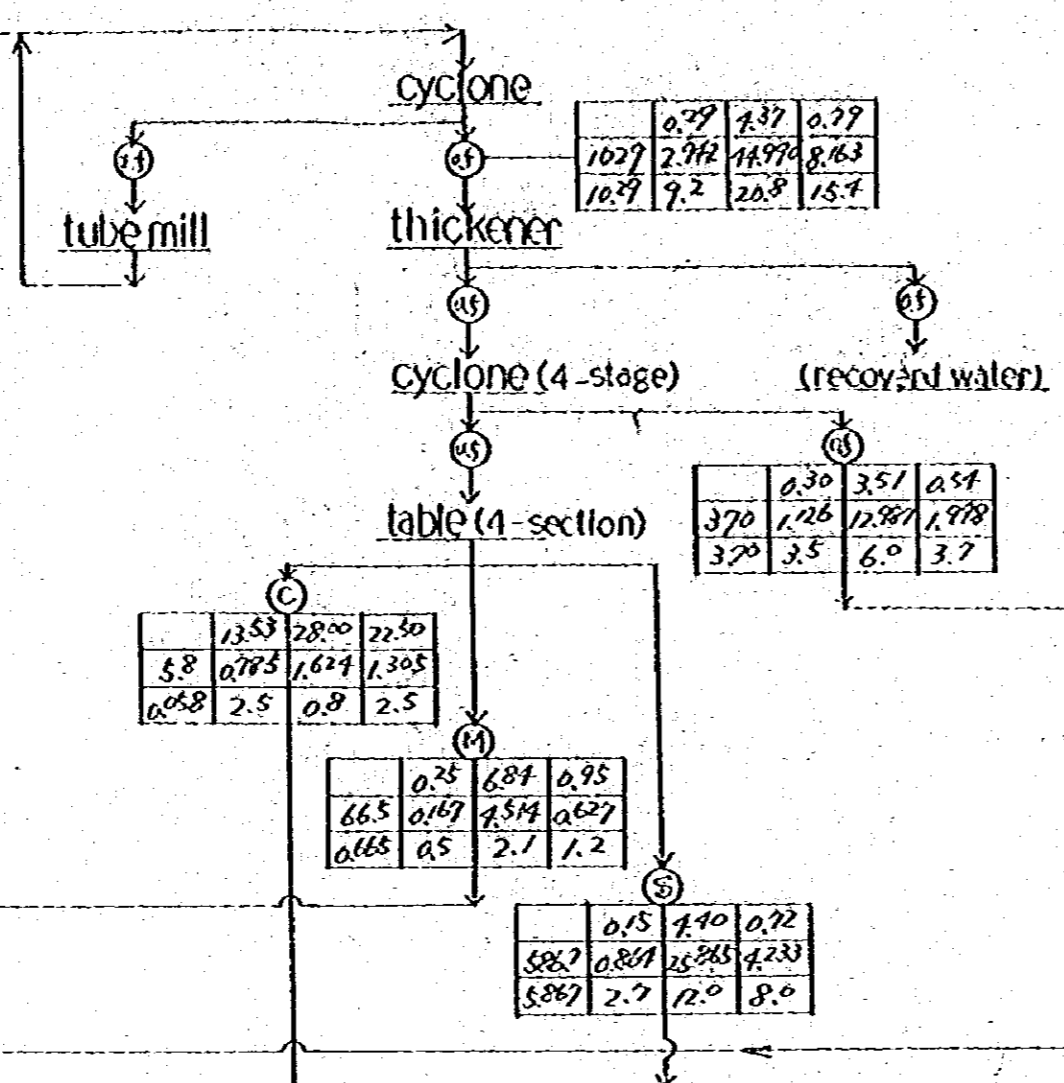


⑦ Sulphide flotation and Magnetic separation Process

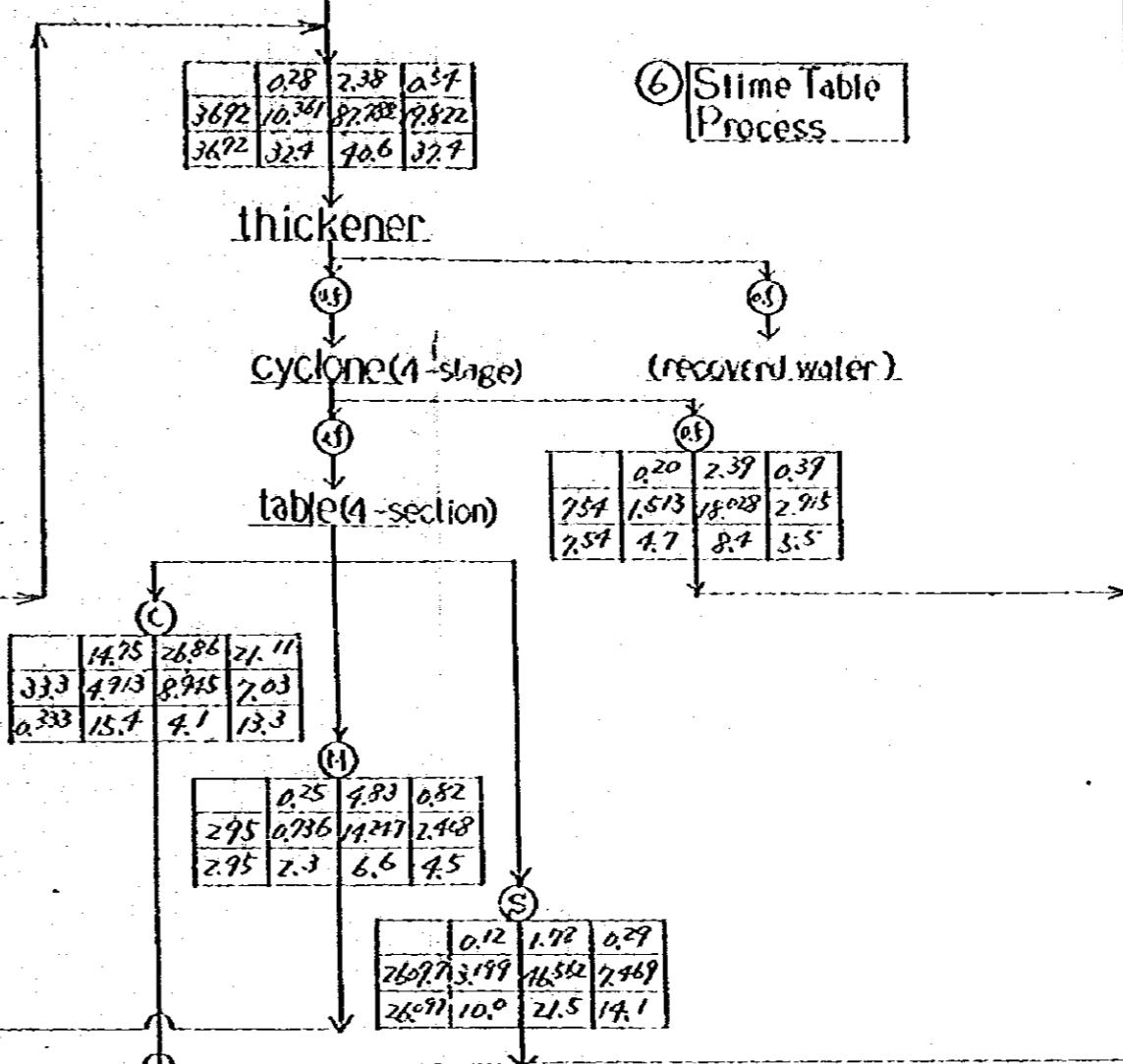




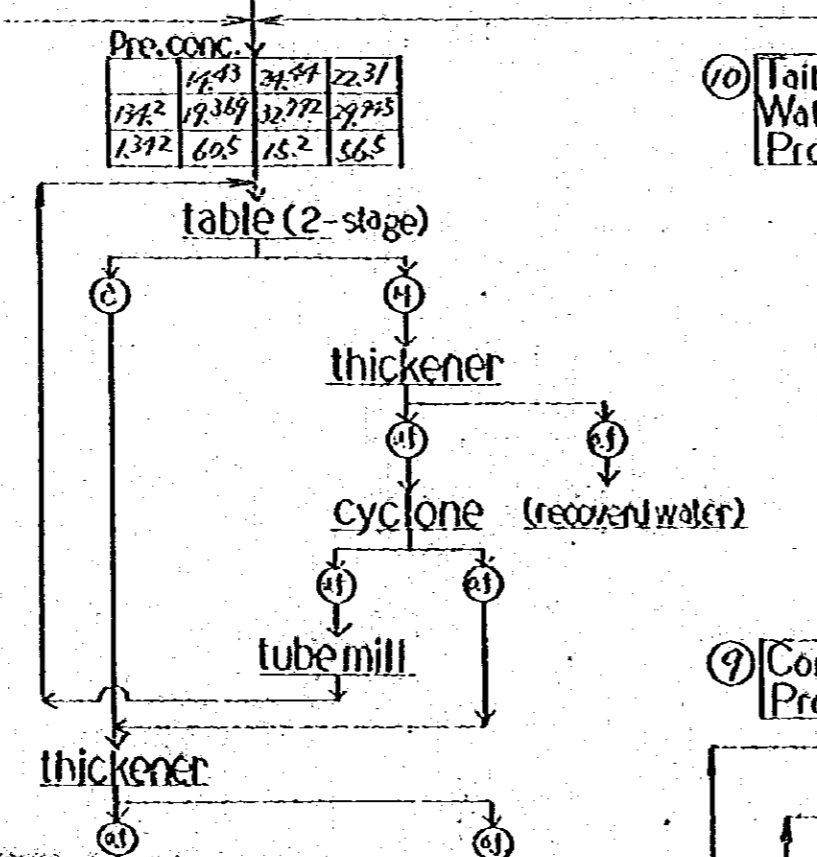
⑤ Middling Table Process



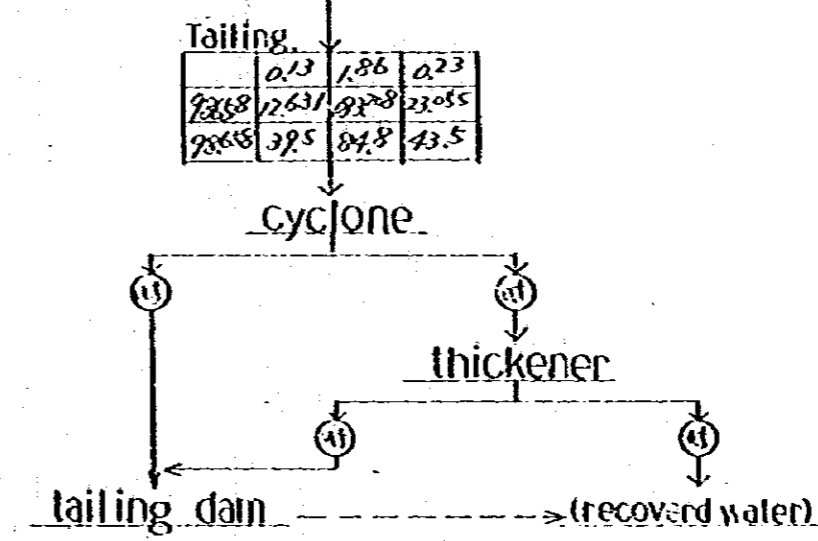
⑥ Slime Table Process



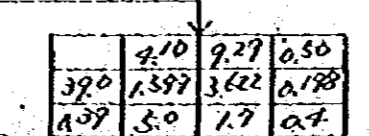
⑦ Sulphide flotation and Magnetic separation Process

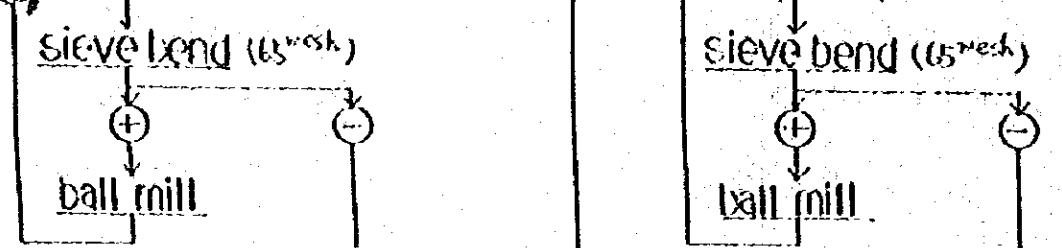


⑩ Tailing disposal and Water treatment Process

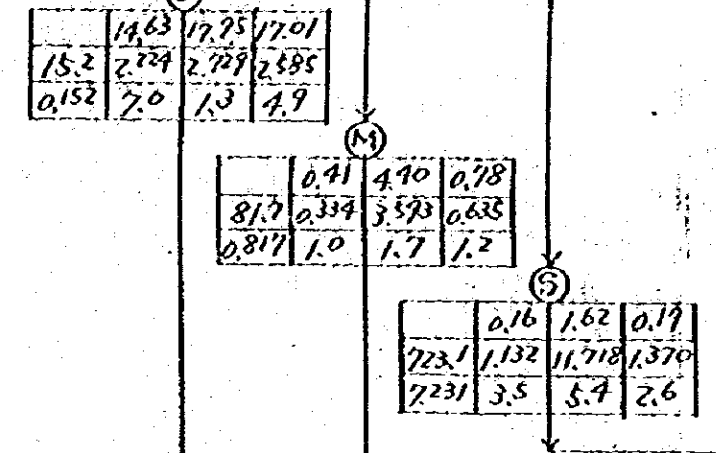
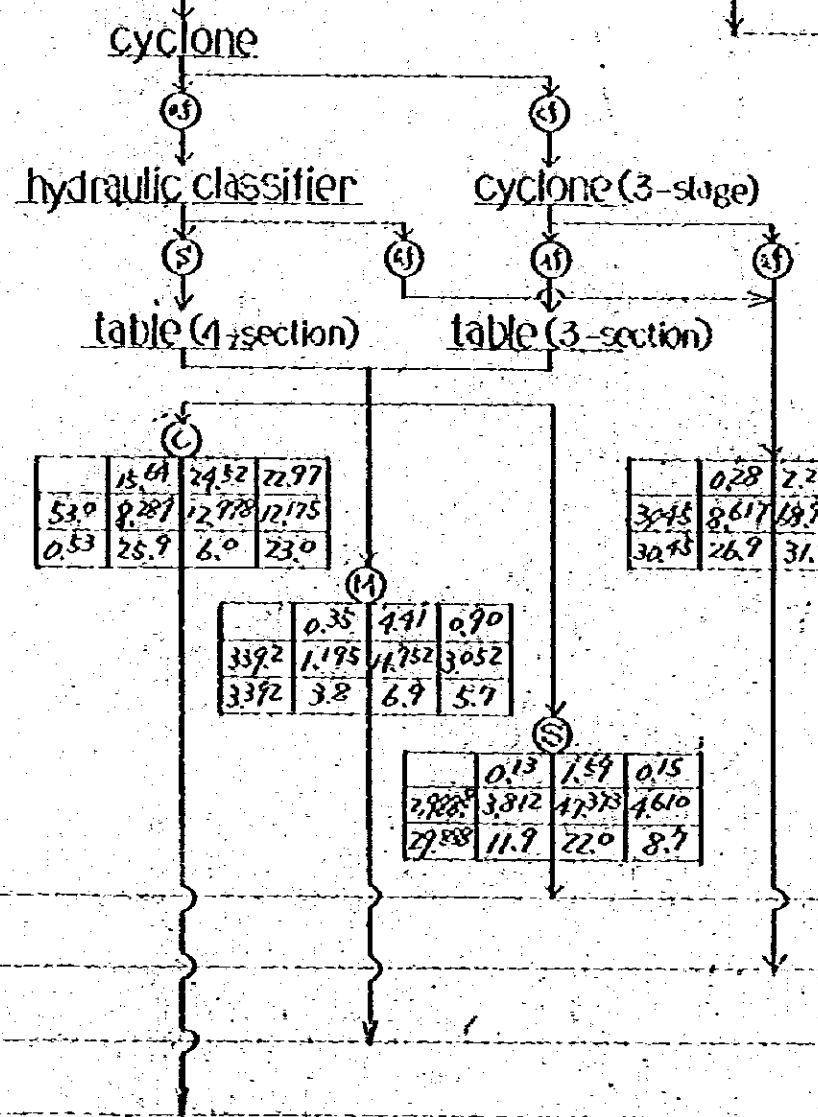
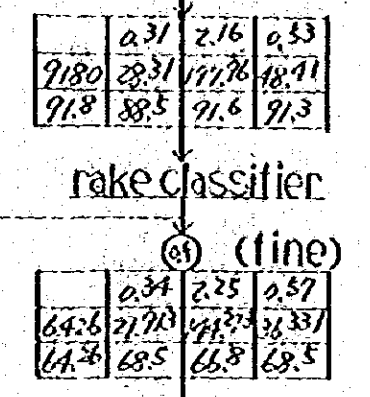
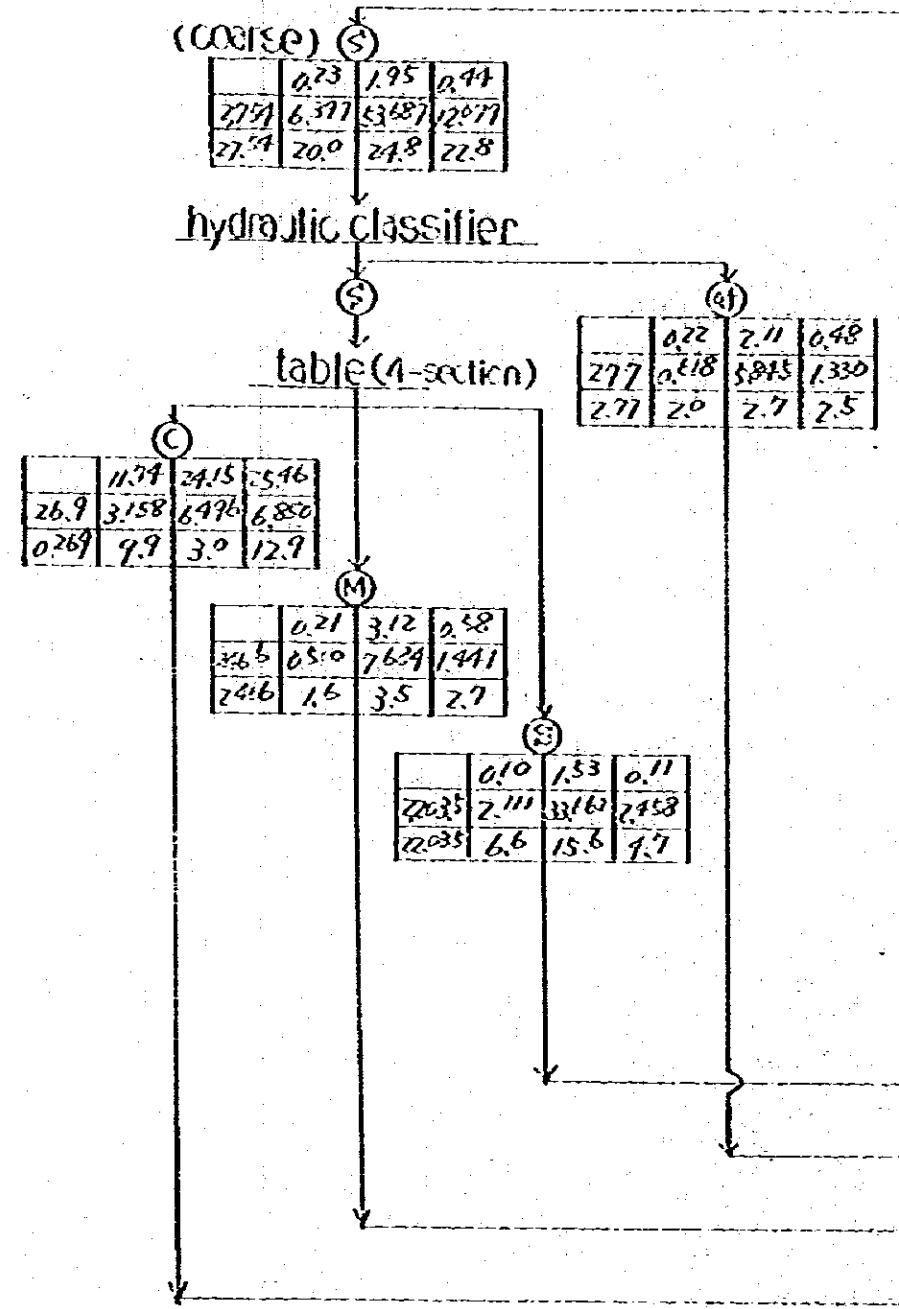


⑨ Concentrate treatment Process

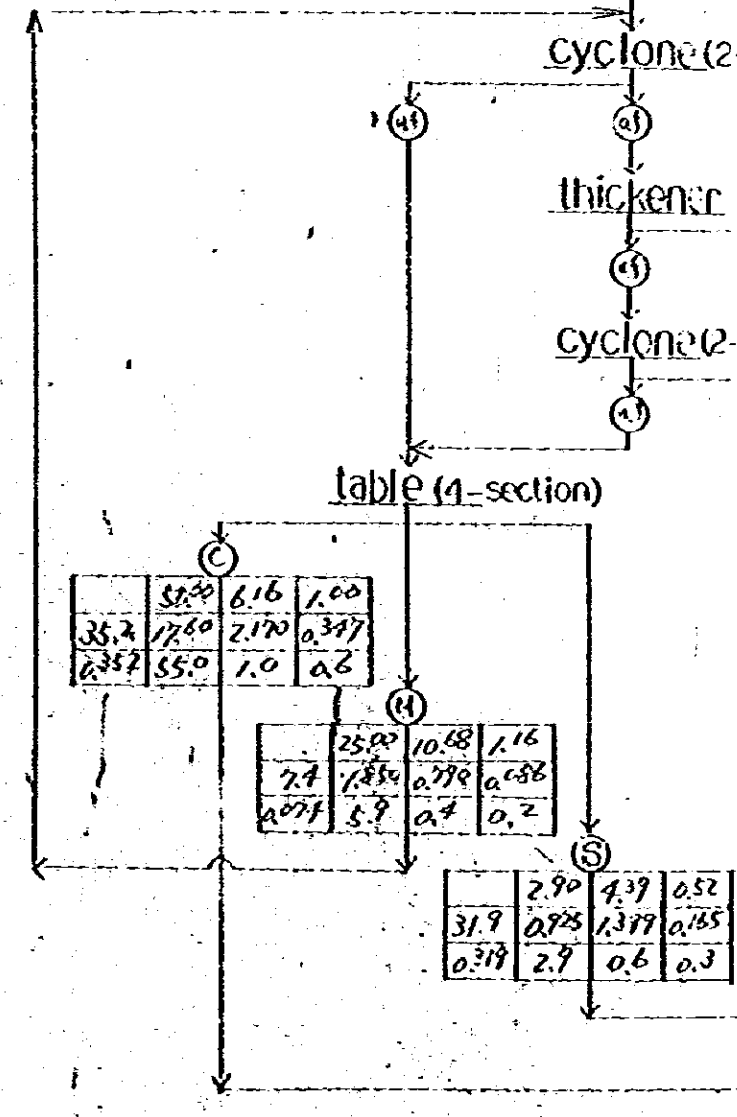


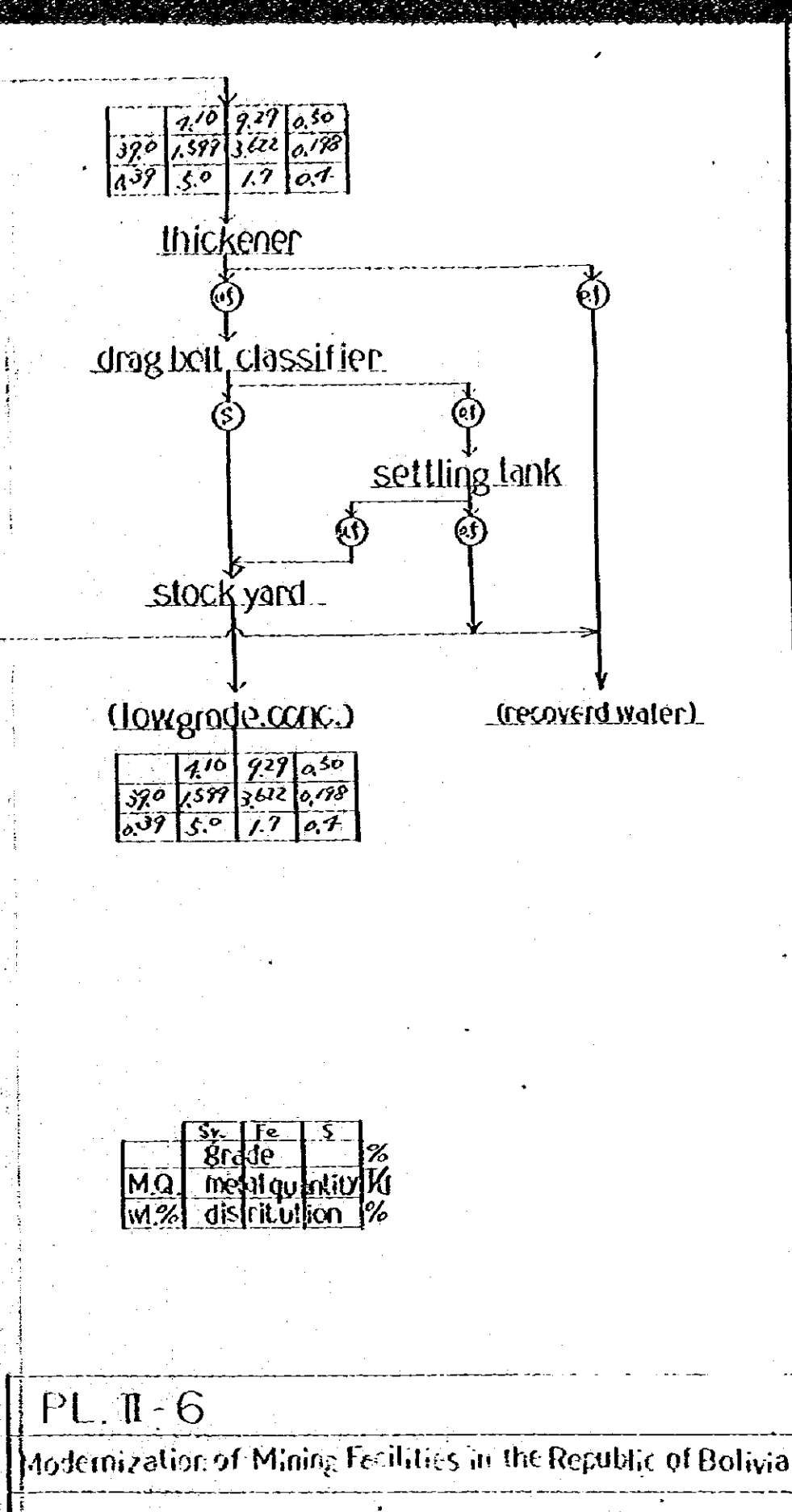
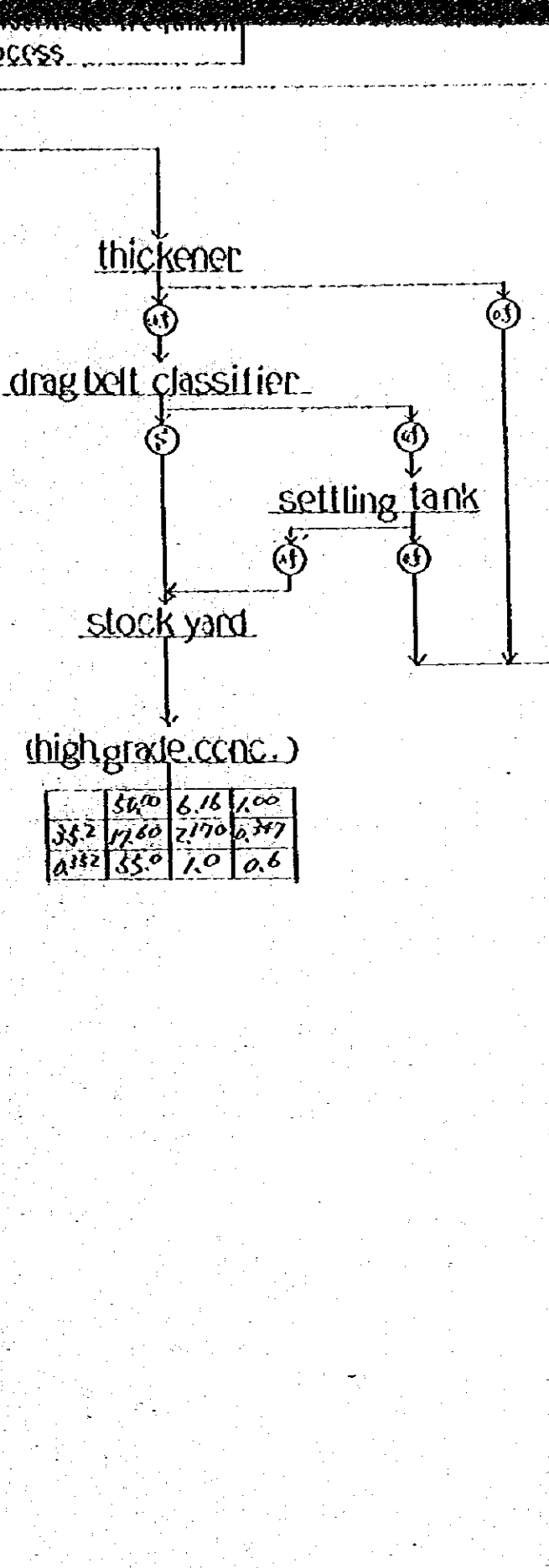
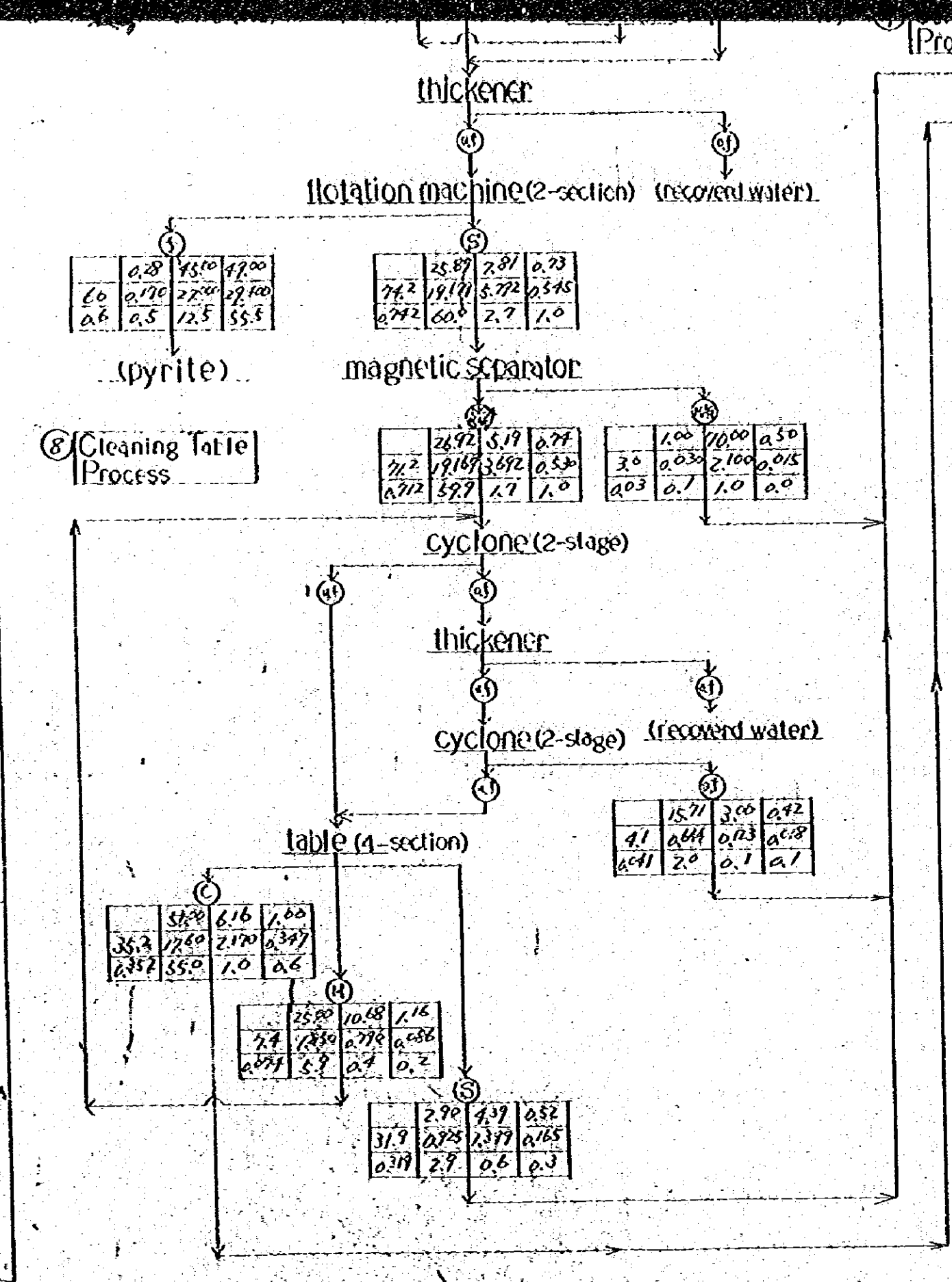
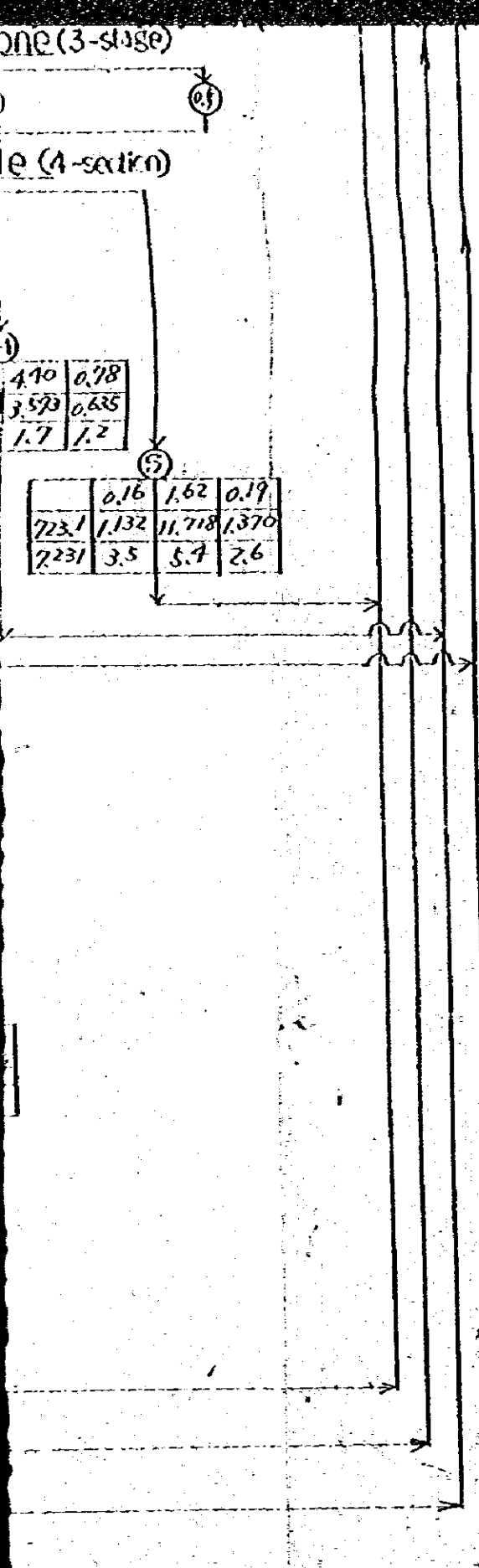


① Roughing Table Process



⑧ Cleaning Table Process





PL. II-6

Modernization of Mining Facilities in the Republic of Bolivia

Flow Sheet of New Mill Plant

Japan International Cooperation Agency

Date 5. Dec. 1982.

