FEASIBILITY STUDY FOR SEPARATE SYSTEM
METROPOLITAN WATER WORKS AUTHORITY
BANGKOK
KINGDOM OF THAILAND

DRAWINGS

— 1973 —

PREPARED FOR
OVERSEAS TECHNICAL COOPERATION AGENCY OF JAPAN
DESIGNED BY
PACIFIC CONSULTANTS INTERNATIONAL CO., LTD.
& NAKANIHON ENGINEERING CONSULTANTS CO., LTD.

NONG KHAEM WATER SYSTEM

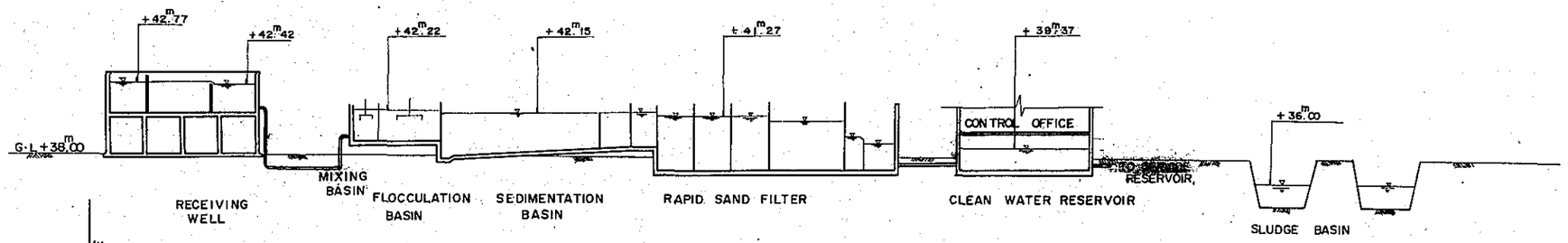
CONTENTS

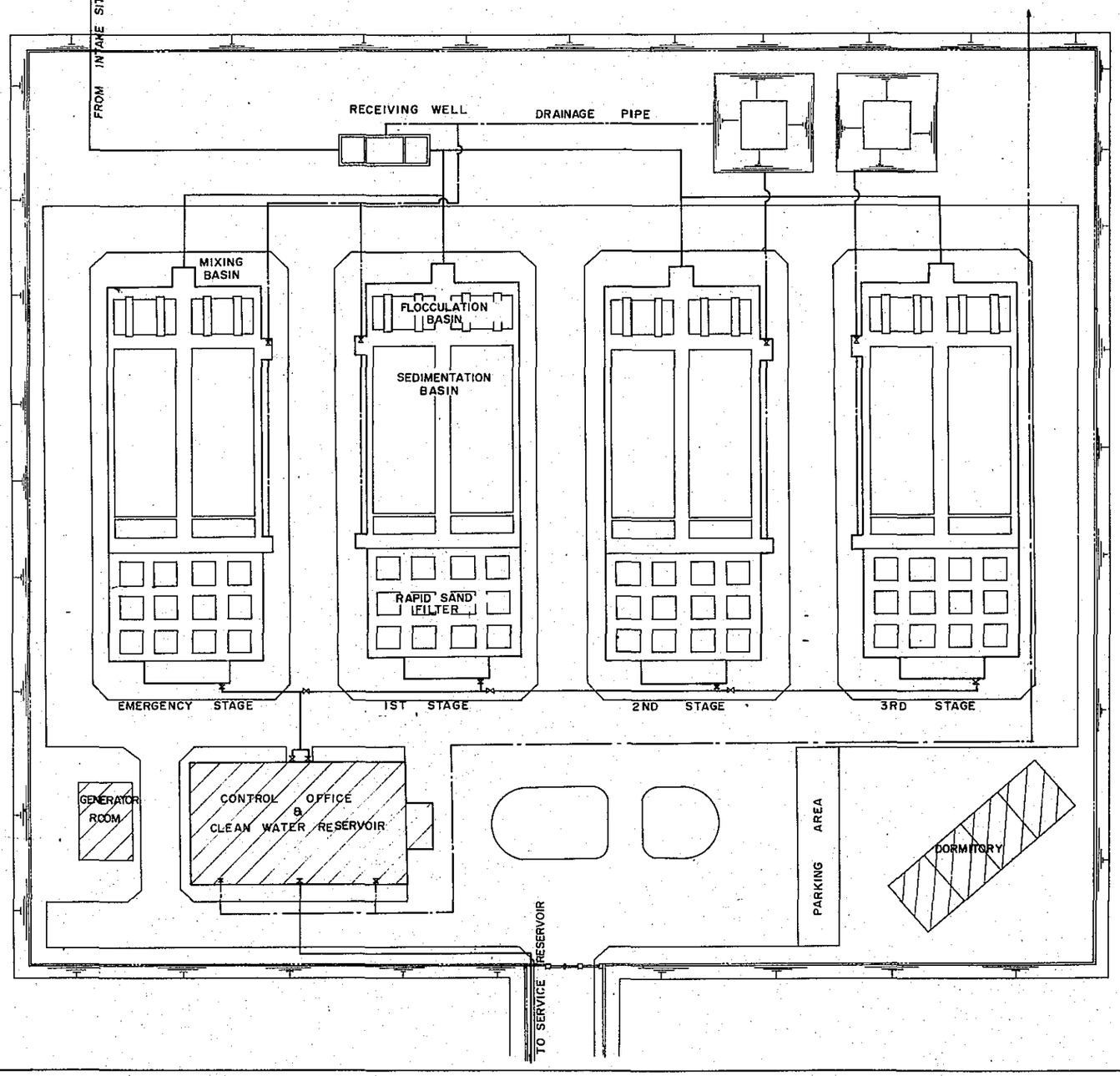
NONG KHAEM WATER SYSTEM

LAT KRABANG WATER SYSTEM

BANG BUA THONG, BANG YAI & SAI NOI WATER SYSTEM

FOR REFERENCE





0 5 10 15 20 m

SCALE

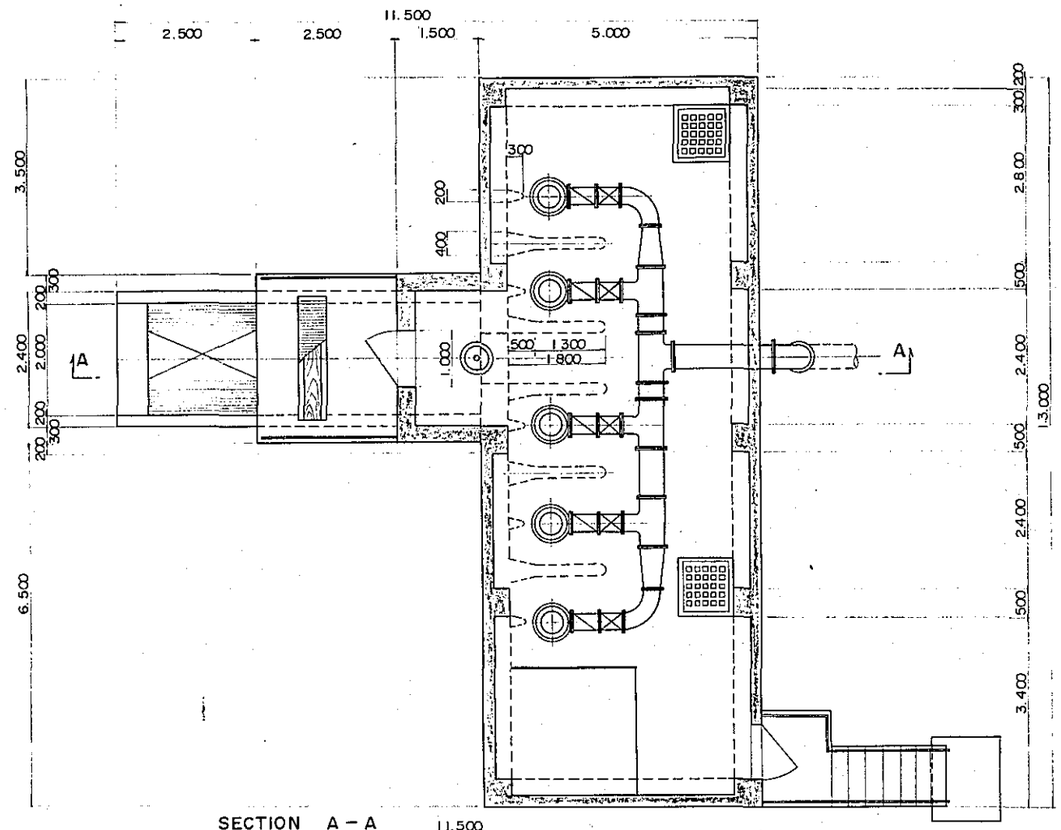
FEASIBILITY STUDY FOR SEWERAGE SYSTEM
METROPOLITAN WATER WORKS AUTHORITY
BANGKOK
KINGDOM OF THAILAND

LAYOUT OF FLOW DIAGRAM

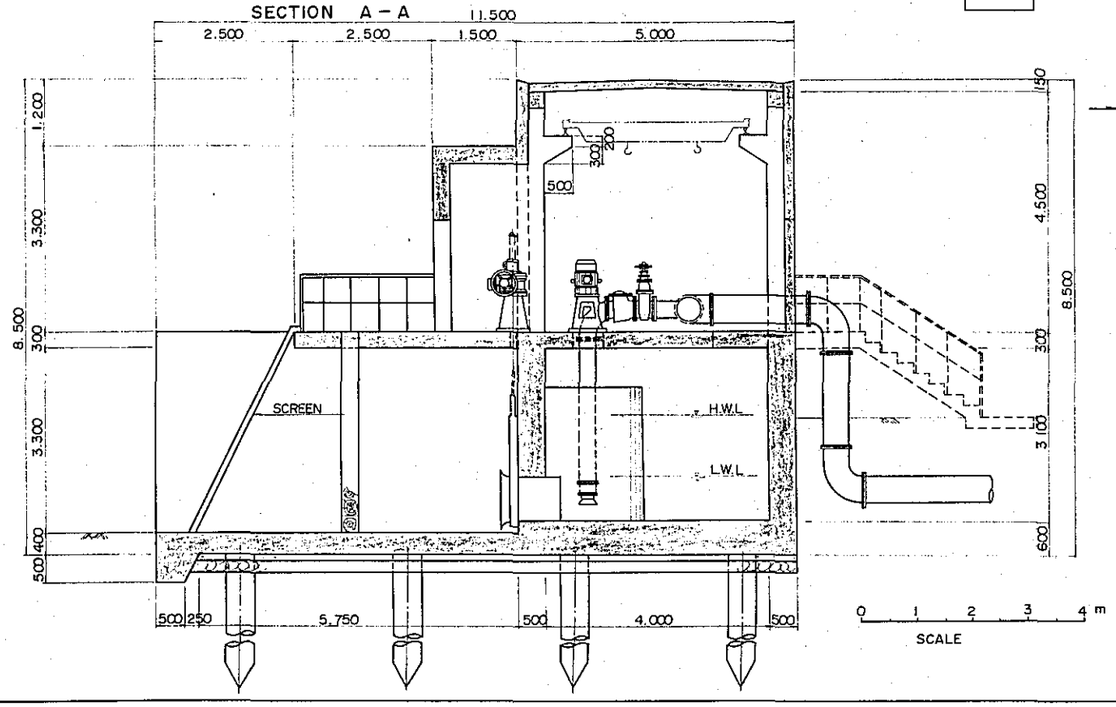
OVERSEAS TECHNICAL COOPERATION AGENCY
TOKYO, JAPAN

SUBMITTED	APPROVED	SCALE	REV. NO.
DATE		DWG. NO.	N – 1

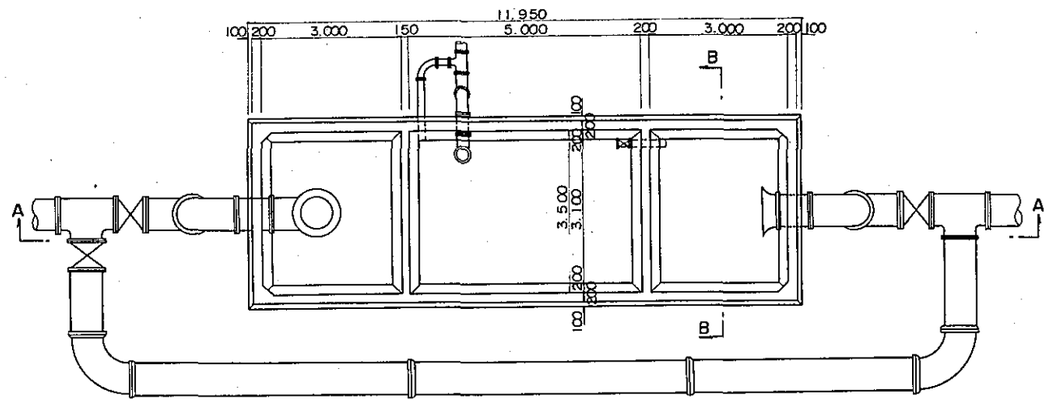
INTAKE BASIN PLAN



SECTION A – A



RECEIVING WELL PLAN



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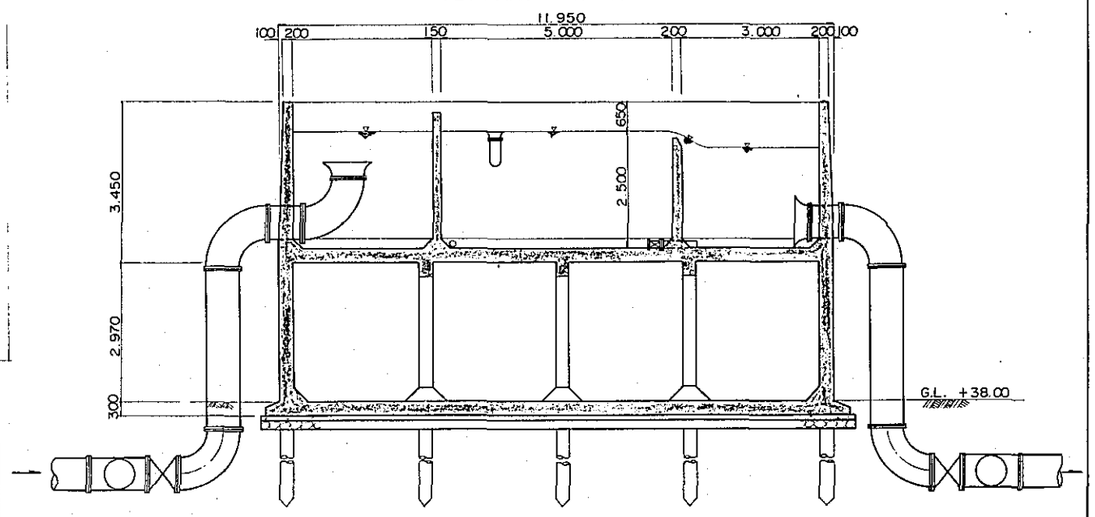

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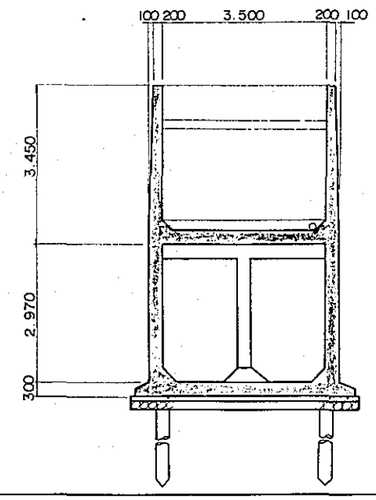
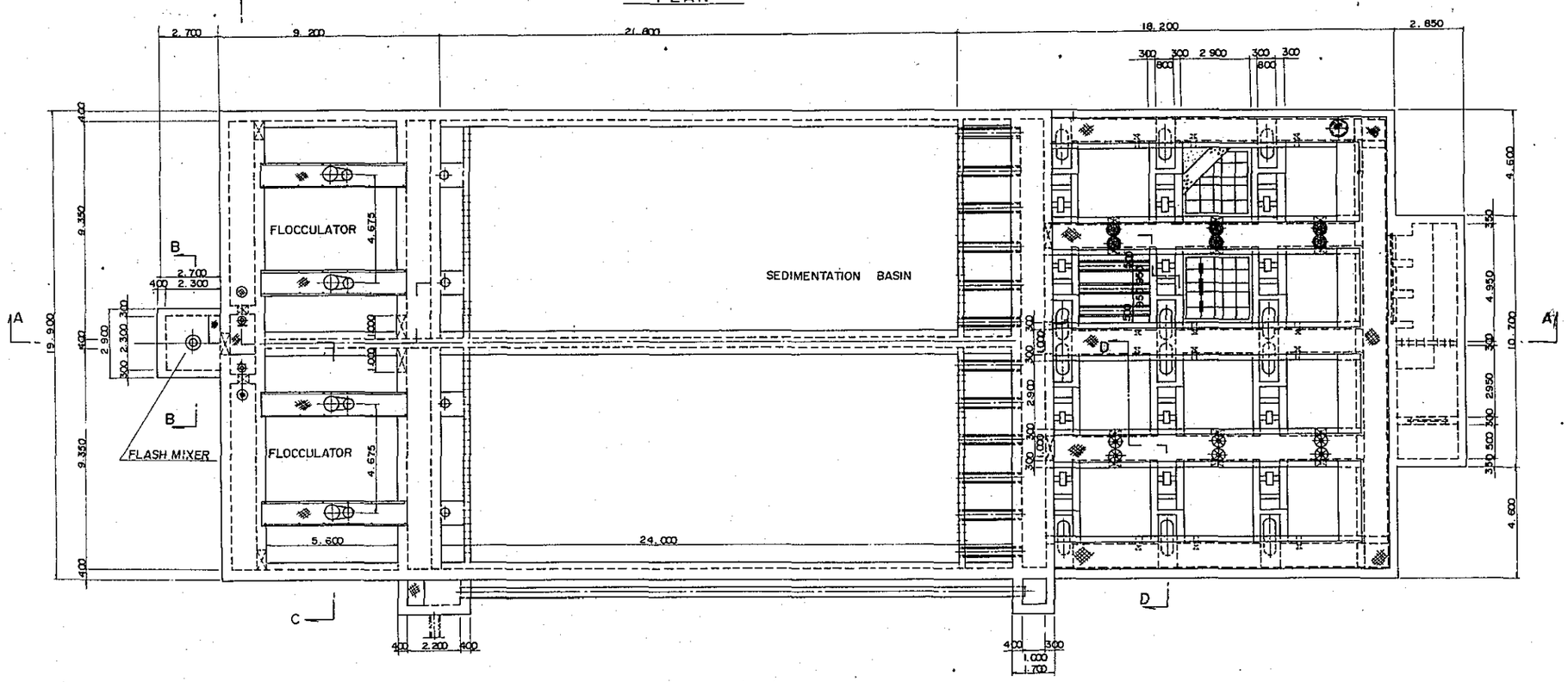


0 1 2 3 4 5 m
SCALE

FEASIBILITY STUDY FOR SEPARATE SYSTEM METROPOLITAN WATER WORKS AUTHORITY BANGKOK KINGDOM OF THAILAND	
INTAKE BASIN & RECEIVING WELL	
OVERSEAS TECHNICAL COOPERATION AGENCY TOKYO, JAPAN	
SUBMITTED / APPROVED / SCALE / REV. NO.	
DATE / DWG. NO.	N – 2

PLAN



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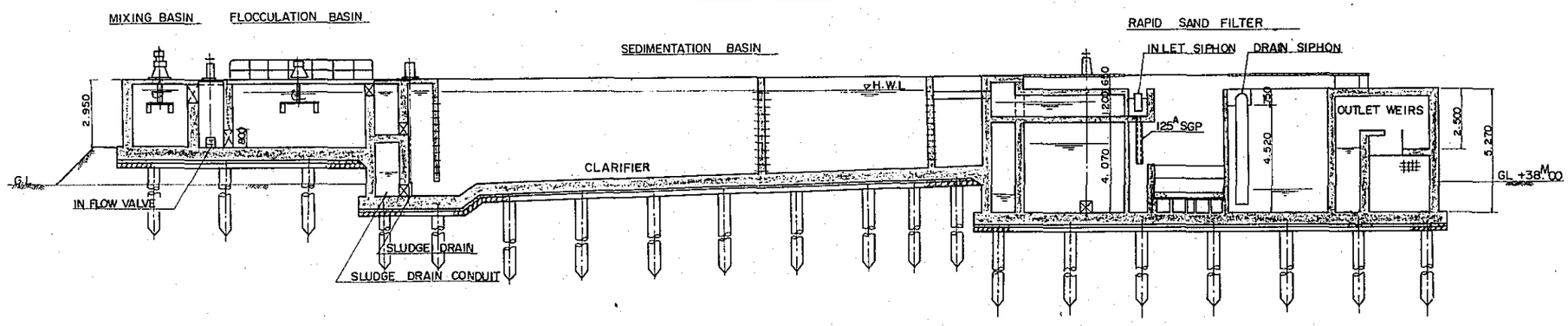

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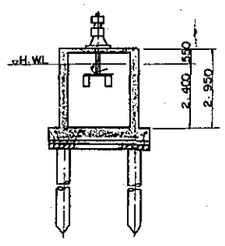

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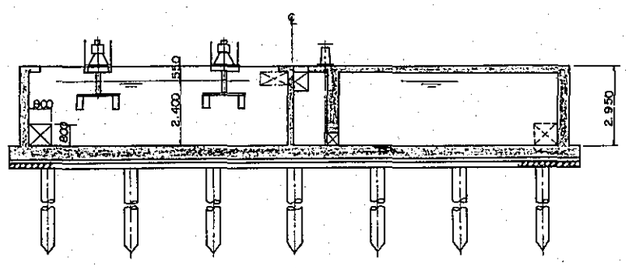

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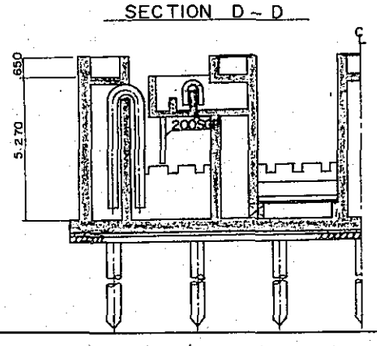


0 1 2 3 4 5m
SCALE

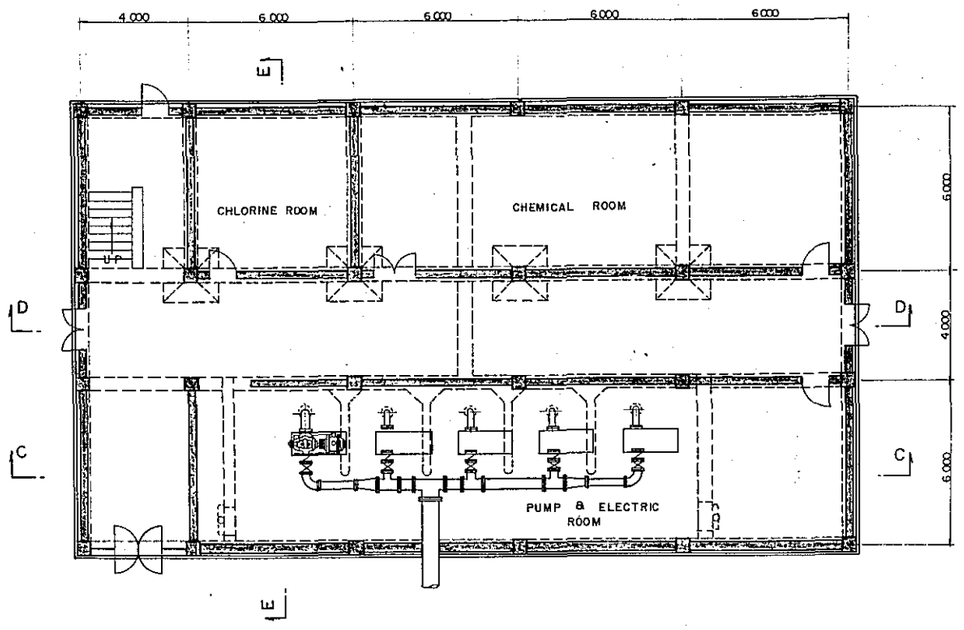
FEASIBILITY STUDY FOR SEPARATE SYSTEM
METROPOLITAN WATER WORKS AUTHORITY
BANGKOK
KINGDOM OF THAILAND

MIXING FLOCCULATION SEDIMENTATION BASIN & RAPID SAND FILTER

OVERSEAS TECHNICAL COOPERATION AGENCY
TOKYO, JAPAN

SUBMITTED	APPROVED	SCALE	REV. NO.
DATE		DWG. NO.	N – 3

PLAN



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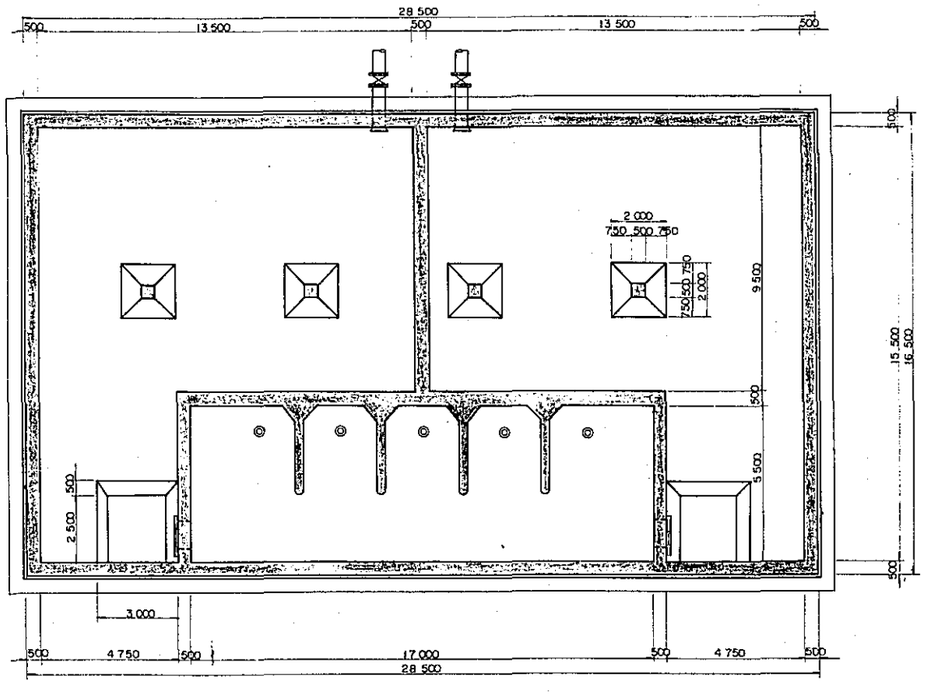

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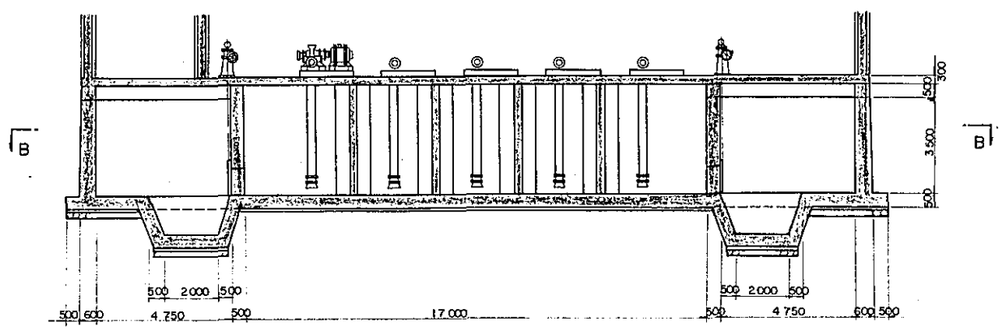

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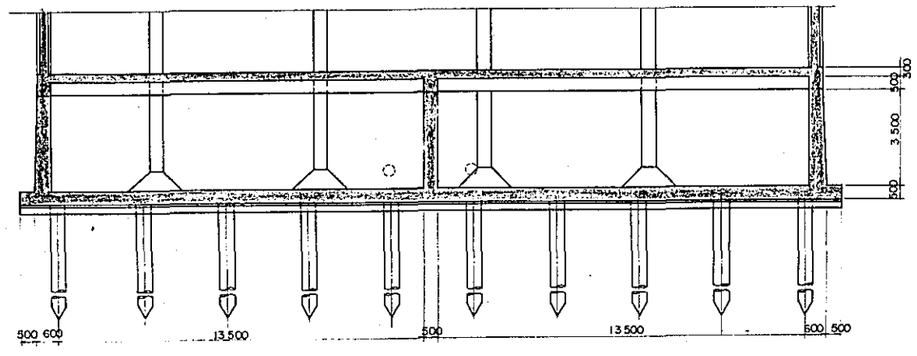

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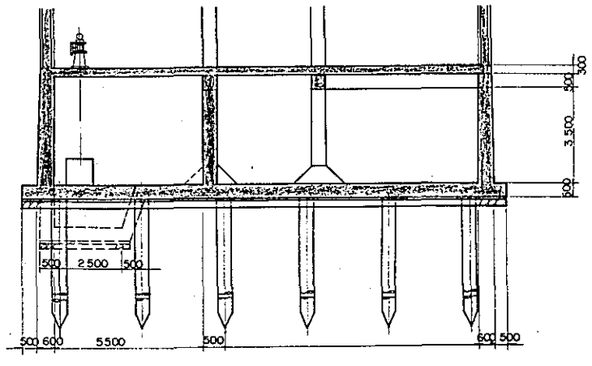


0 2 4 6 8 10m

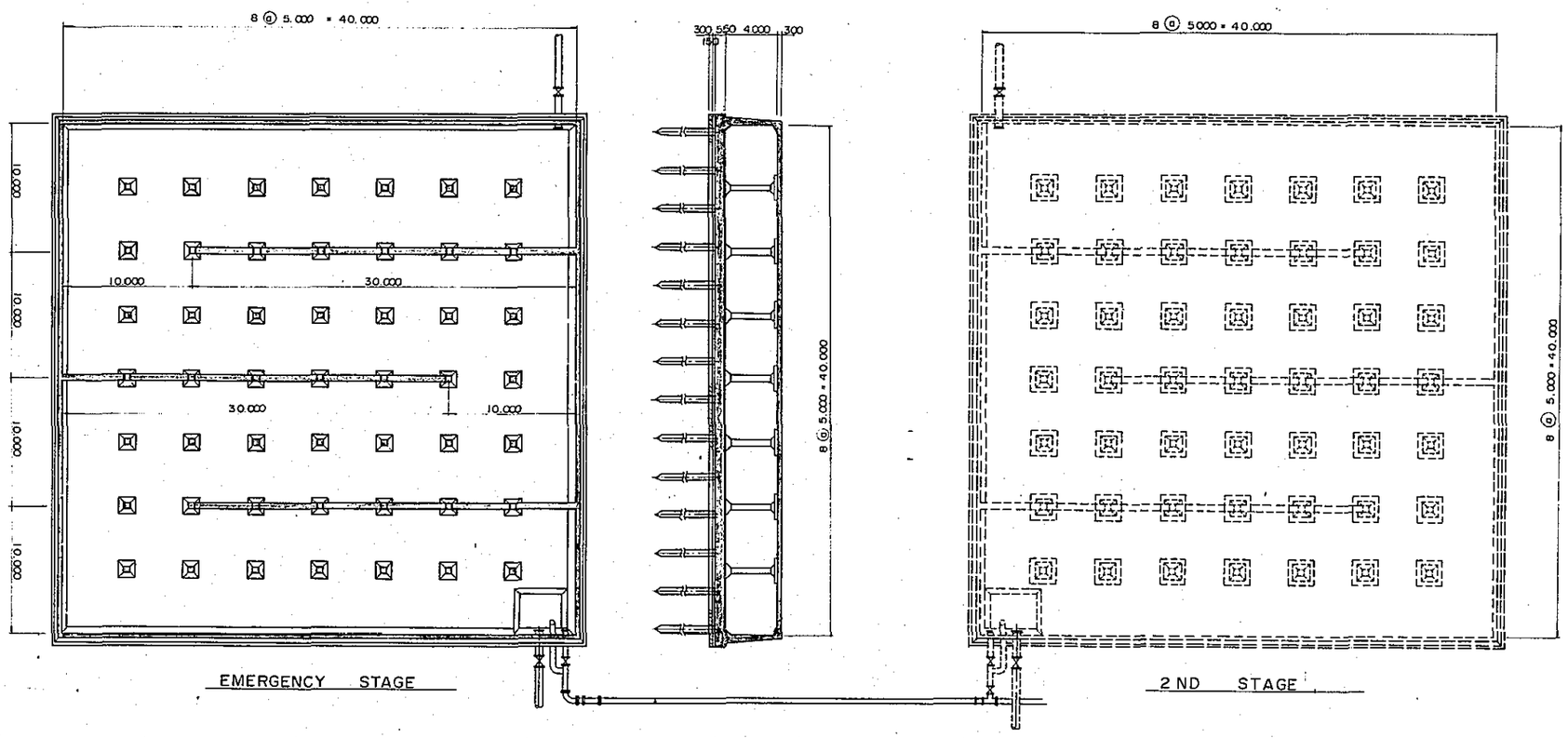
SCALE

FEASIBILITY STUDY FOR SEPARATE SYSTEM
METROPOLITAN WATER WORKS AUTHORITY
BANGKOK
KINGDOM OF THAILAND

CLEAN WATER RESERVOIR

OVERSEAS TECHNICAL COOPERATION AGENCY
TOKYO, JAPAN

SUBMITTED	APPROVED	SCALE	REV NO.
DATE		DWG NO.	N - 4

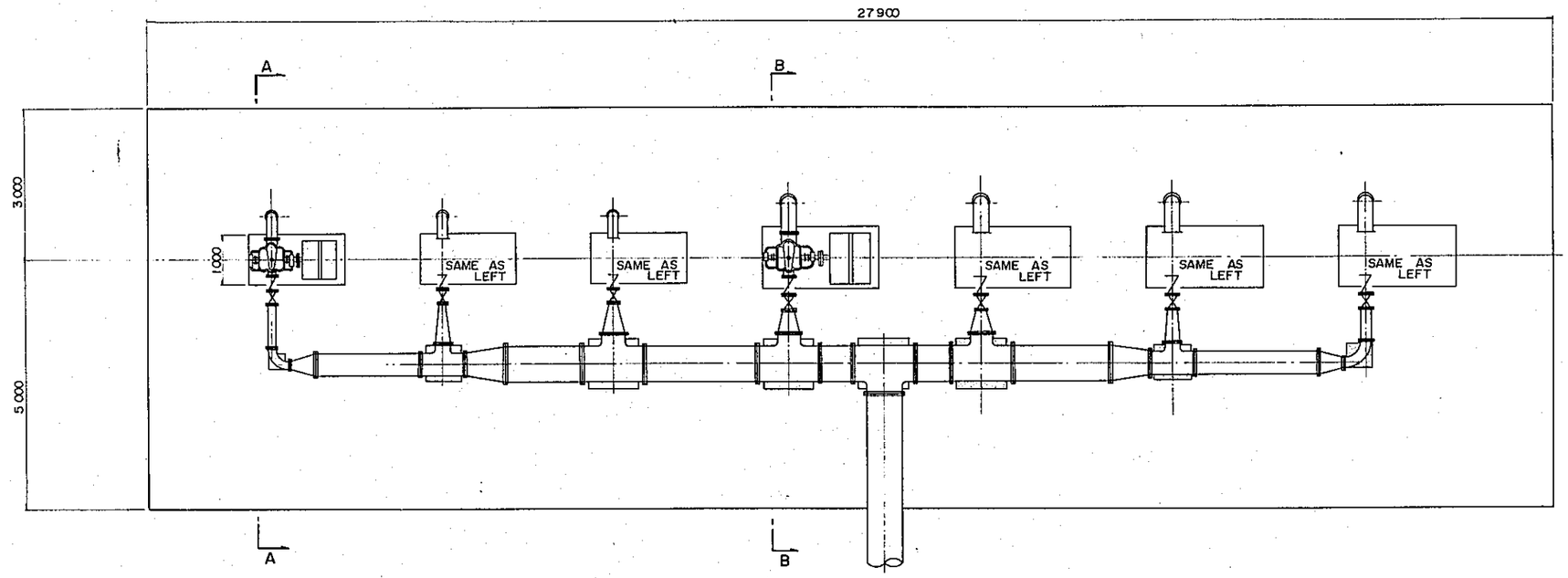


PUMPING ROOM

0 5 10 15 20m

SCALE

FEASIBILITY STUDY FOR SEPARATE SYSTEM METROPOLITAN WATER WORKS AUTHORITY BANGKOK KINGDOM OF THAILAND			
SERVICE RESERVOIR			
OVERSEAS TECHNICAL COOPERATION AGENCY TOKYO, JAPAN			
SUBMITTED	APPROVED	SCALE	REV. NO
DATE	DWG. NO. N – 5		



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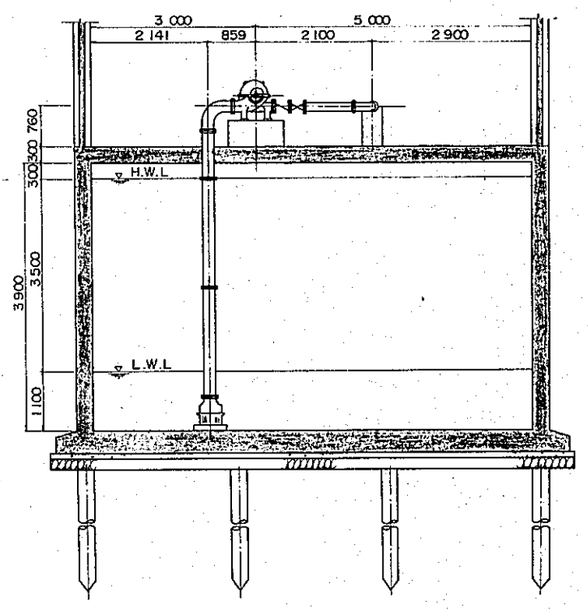

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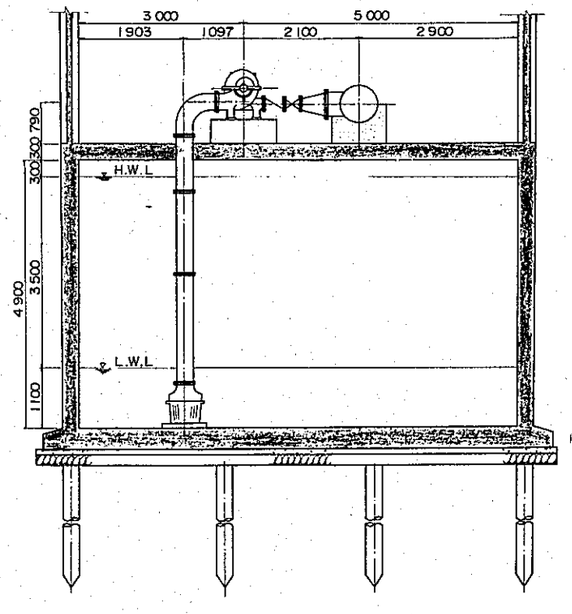
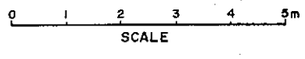


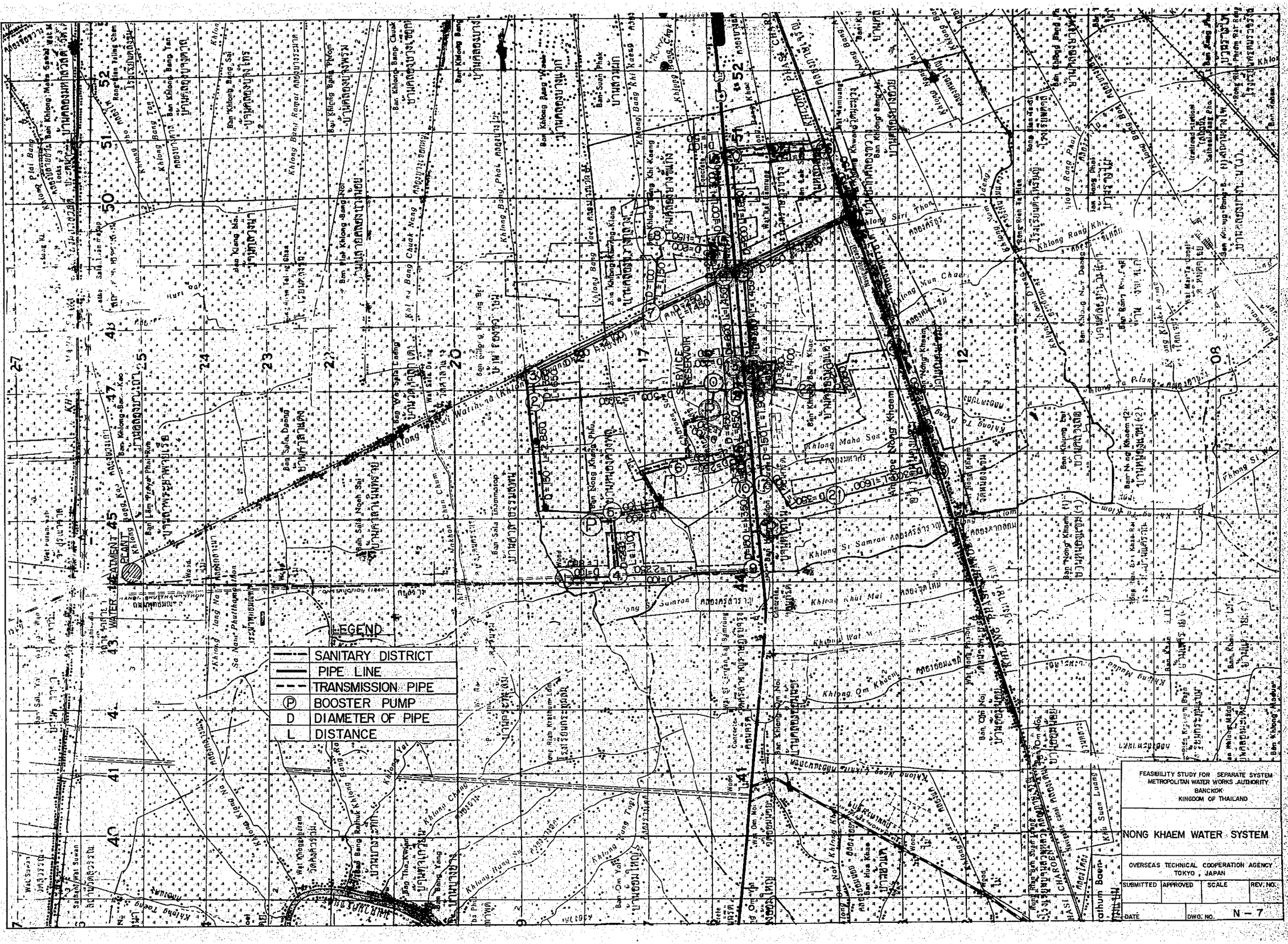


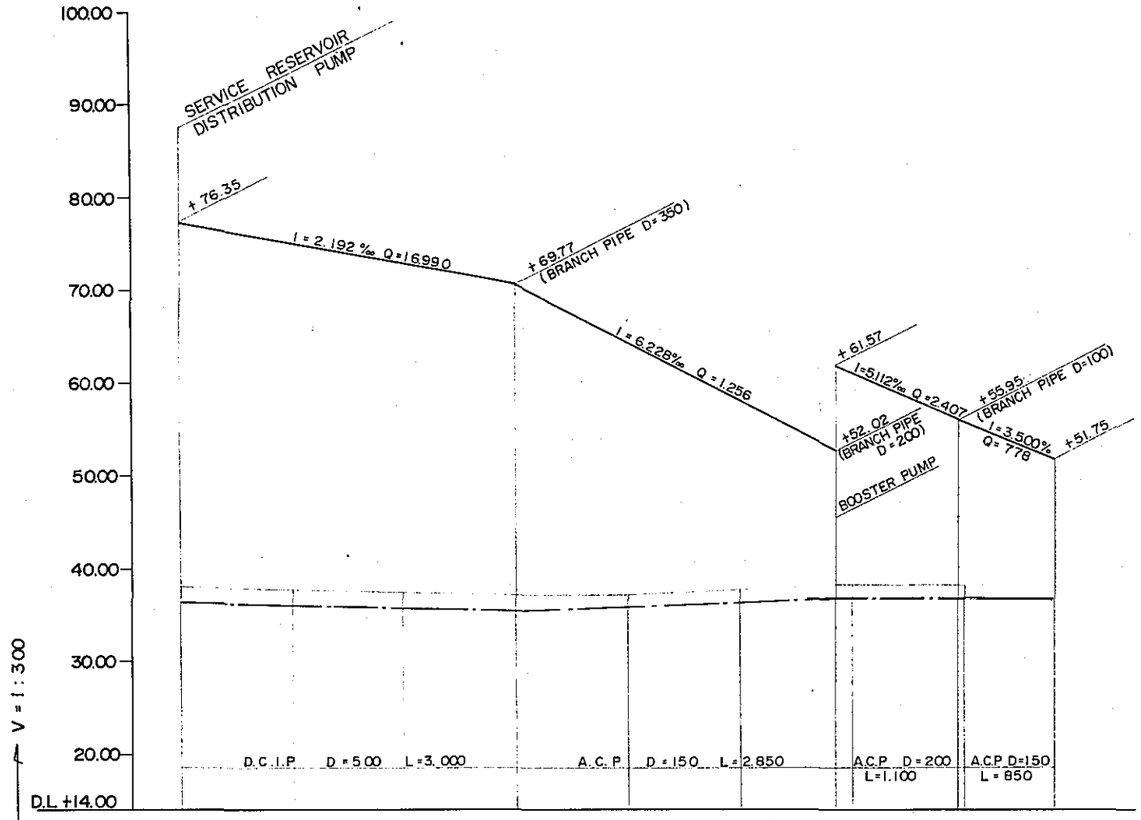
FEASIBILITY STUDY FOR SEPARATE SYSTEM
METROPOLITAN WATER WORKS AUTHORITY
BANGKOK
KINGDOM OF THAILAND

DISTRIBUTION PUMPING WELL

OVERSEAS TECHNICAL COOPERATION AGENCY
TOKYO , JAPAN

SUBMITTED	APPROVED	SCALE	REV. NO.
DATE	DWG. NO.	N – 6	


LEGEND
SANITARY DISTRICT
PIPE LINE
TRANSMISSION PIPE
BOOSTER PUMP
DIAMETER OF PIPE
DISTANCE
WATER TREATMENT PLANT
SERVICE RESERVOIR
FEASIBILITY STUDY FOR SEPARATE SYSTEM
METROPOLITAN WATER WORKS AUTHORITY
BANGKOK
KINGDOM OF THAILAND
NONG KHAEM WATER SYSTEM
OVERSEAS TECHNICAL COOPERATION AGENCY
TOKYO , JAPAN
SUBMITTED
APPROVED
SCALE
REV. NO.
DATE
DWG. NO.
N – 7



H = 1 : 25.000

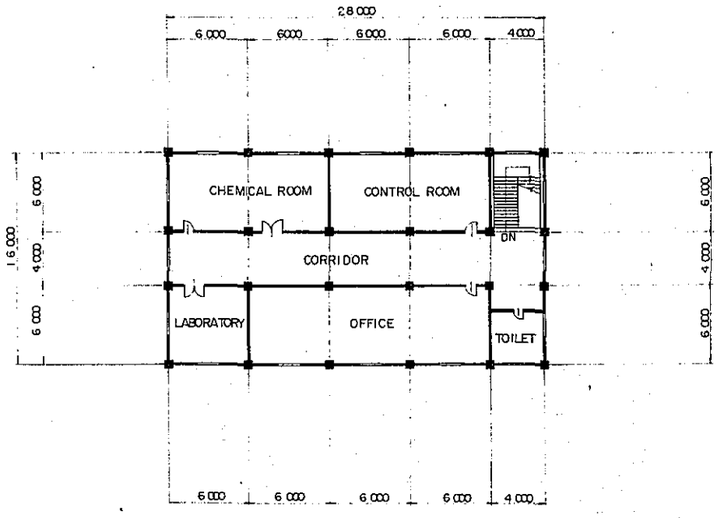
STATION	SECTIONAL DISTANCE	TOTAL DISTANCE	GROUND HEIGHT	CENTRAL HEIGHT OF PIPE	EFFECTIVE HEAD	HYDRO-DYNAMIC HEAD	STATIC HEAD
⑥	0	0	38.00	36.35	40.000	76.35	76.35
	1.000	1.000	37.70	36.05			
	1.000	2.000	37.30	35.65			
②	1.000	3.000	37.00	35.35	34.42	69.77	
	1.000	4.000	37.00	35.72			
	1.000	5.000	37.50	36.22			
⑤	850	5.850	38.00	36.70	15.32	52.02	
	150	6.000	38.00	36.70	24.87	61.57	
④	950	6.950	38.00	36.70	19.25	55.95	
	50	7.000	38.00	36.75			
①	800	7.800	38.00	36.75	15.00	51.75	76.35

FEASIBILITY STUDY FOR SEPARATE SYSTEM
METROPOLITAN WATER WORKS AUTHORITY
BANGKOK
KINGDOM OF THAILAND

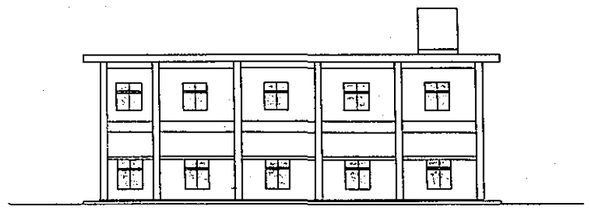
LONGITUDINAL SECTION OF NONG KHAEM

OVERSEAS TECHNICAL COOPERATION AGENCY
TOKYO , JAPAN

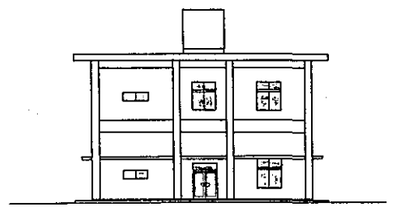
SUBMITTED	APPROVED	SCALE	REV. NO.
DATE	DWG. NO.	N – 8	



2ND FLOOR PLAN
S=1:200



RIGHT ELEVATION
S=1:200



FRONT ELEVATION
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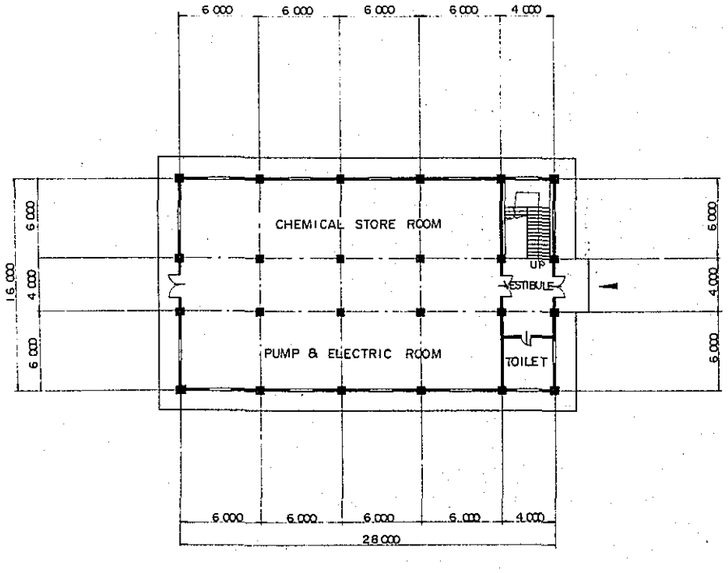
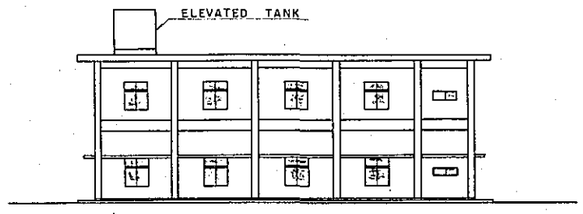


1 ST FLOOR PLAN
S=1:200

SCALE
0 1 2 3 4 5 10m



LEFT ELEVATION
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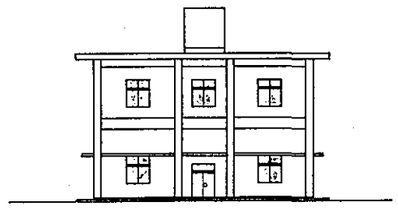


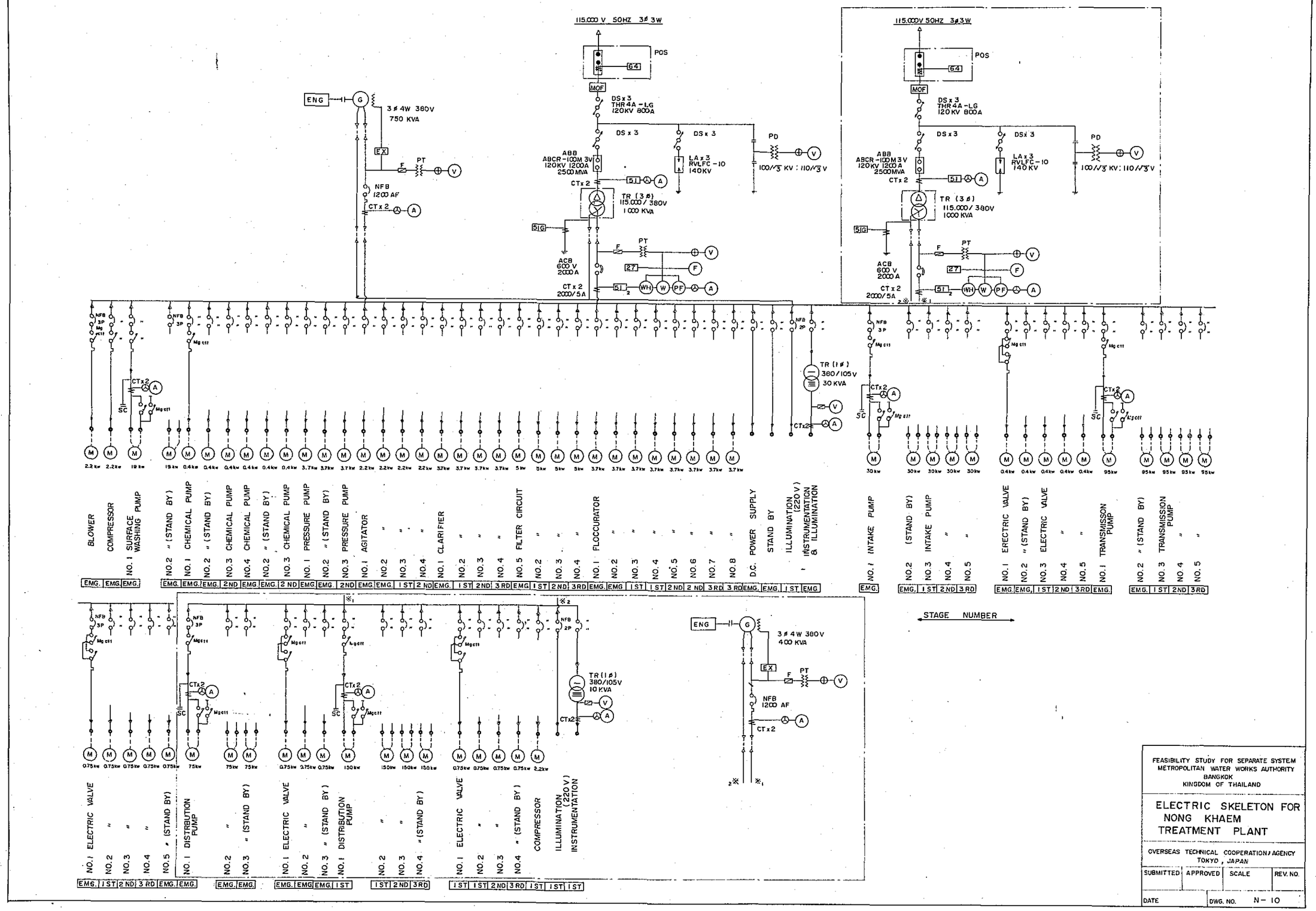
REAR ELEVATION
S=1:200

FEASIBILITY STUDY FOR SEPARATE SYSTEM
METROPOLITAN WATER WORKS AUTHORITY
BANGKOK
KINGDOM OF THAILAND

CONTROL OFFICE

OVERSEAS TECHNICAL COOPERATION AGENCY
TOKYO, JAPAN

SUBMITTED	APPROVED	SCALE	REV.NO.
DATE		DWG.NO.	N – 9



FEASIBILITY STUDY FOR SEPARATE SYSTEM
METROPOLITAN WATER WORKS AUTHORITY
BANGKOK
KINGDOM OF THAILAND

ELECTRIC SKELETON FOR NONG KHAEM TREATMENT PLANT

OVERSEAS TECHNICAL COOPERATION AGENCY
TOKYO, JAPAN

SUBMITTED	APPROVED	SCALE	REV. NO.
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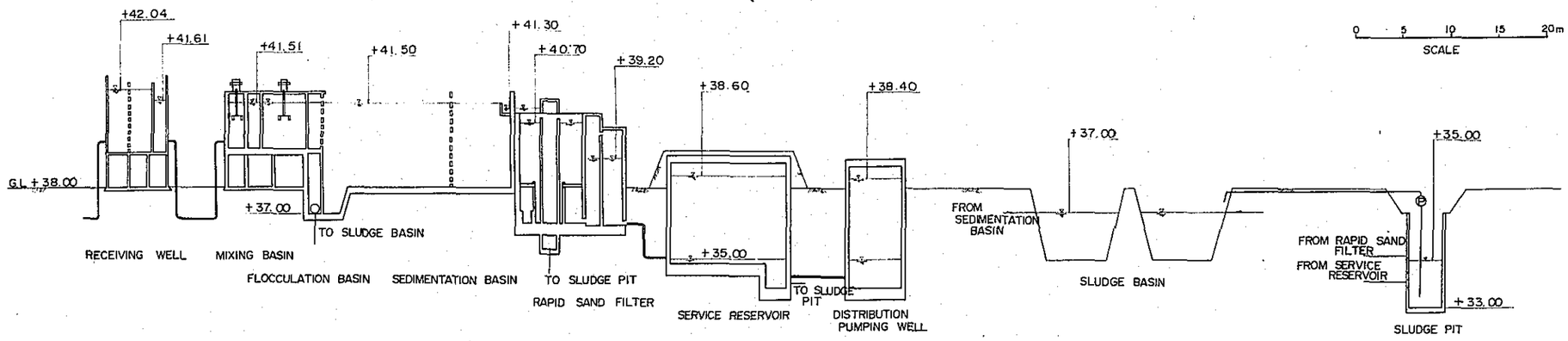
LAT KRABANG WATER SYSTEM

KHLONG PHRA KHANONG

FLOWING DIRECTION

MIXING BASIN
FLOCCULATION BASIN
SEDIMENTATION BASIN
RAPID SAND FILTER

INTAKE BASIN
3 RD. STAGE
2 ND. STAGE
1 ST. STAGE
RECEIVING WELL
1 ST. STAGE
2ND. STAGE
SERVICE RESERVOIR 3RD. STAGE
DISTRIBUTION PUMPING WELL
OFFICE & CONTROL ROOM
SLUDGE BASIN
SLUDGE PIT
ELECTRIC GENERATOR & CHEMICAL ROOM
PARKING AREA
DORMITORY
DORMITORY



0 5 10 15 20m
SCALE

FEASIBILITY STUDY FOR SEPARATE SYSTEM
METROPOLITAN WATER WORKS AUTHORITY
BANGKOK
KINGDOM OF THAILAND

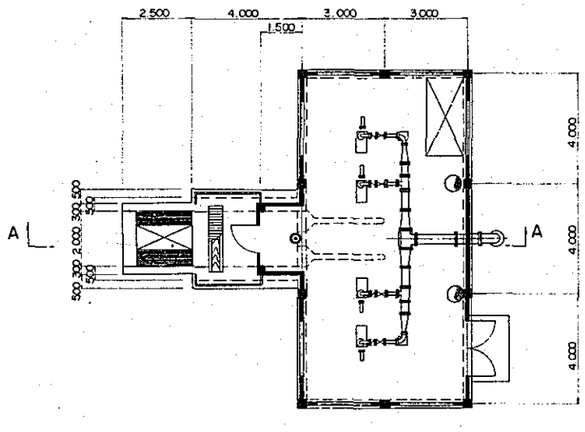
LAYOUT OF FLOW DIAGRAM

OVERSEAS TECHNICAL COOPERATION AGENCY
TOKYO, JAPAN

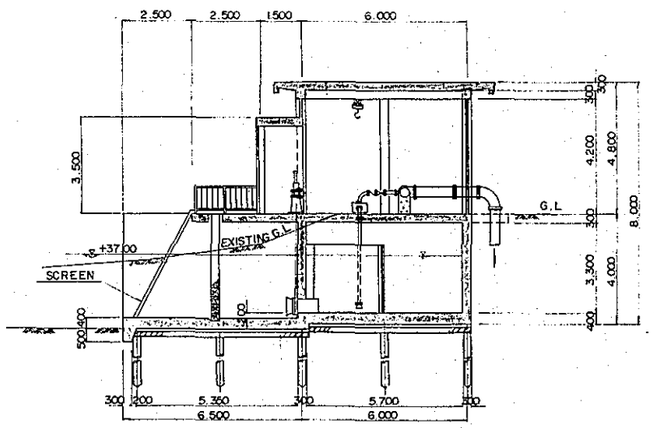
SUBMITTED	APPROVED	SCALE	REV. NO.
DATE		DWG. NO	L – 1

INTAKE BASIN

PLAN



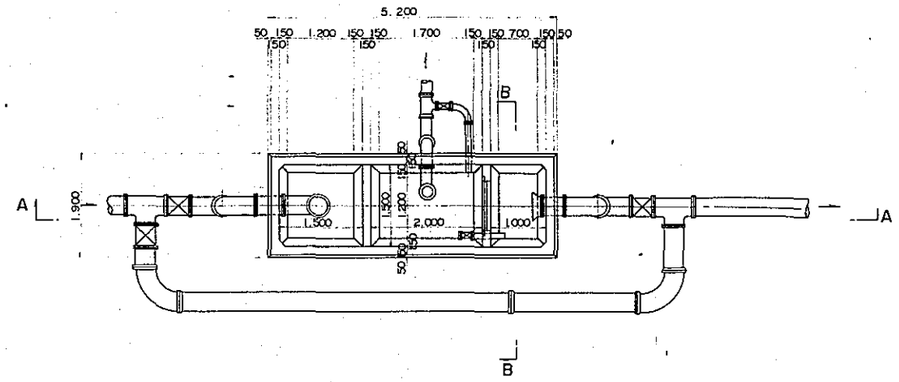
SECTION A - A



0 5 10m
SCALE

RECEIVING WELL

PLAN



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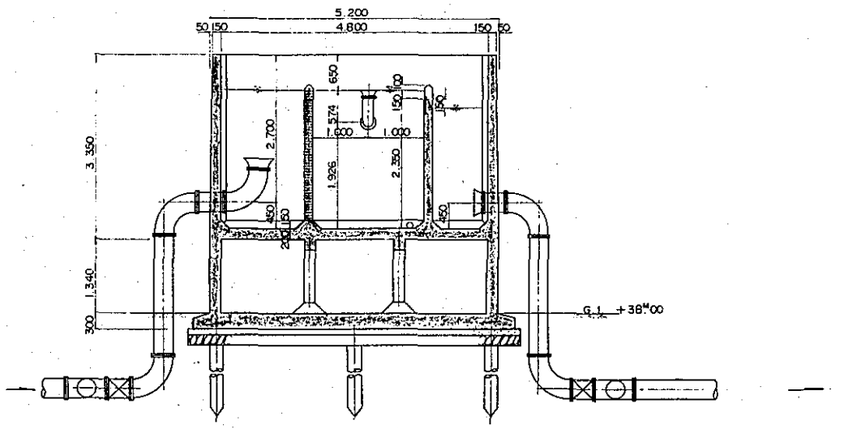

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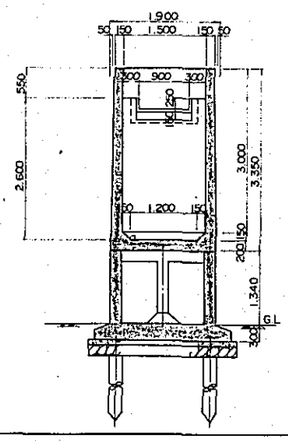


0 1 2 3m
SCALE

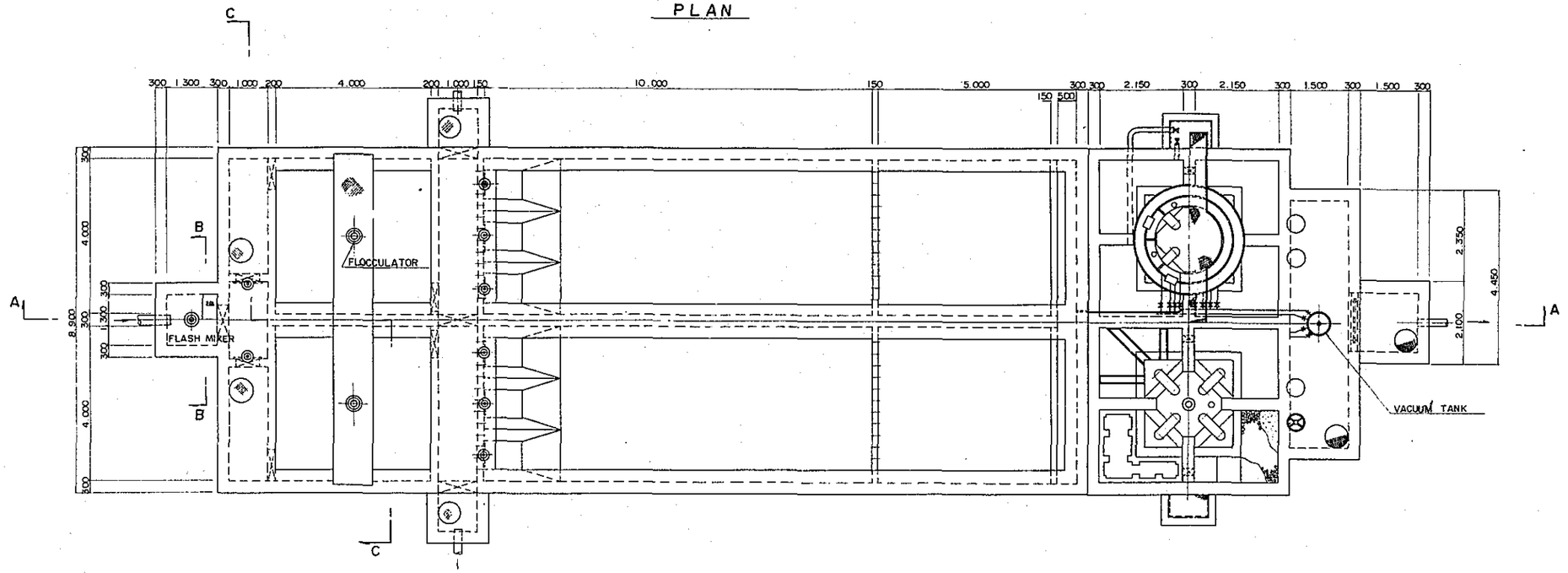
FEASIBILITY STUDY FOR SEPARATE SYSTEM
METROPOLITAN WATER WORKS AUTHORITY
BANGKOK
KINGDOM OF THAILAND

INTAKE BASIN & RECEIVING WELL

OVERSEAS TECHNICAL COOPERATION AGENCY
TOKYO , JAPAN

SUBMITTED	APPROVED	SCALE	REV. NO.
DATE		DWG. NO.	L - 2

PLAN



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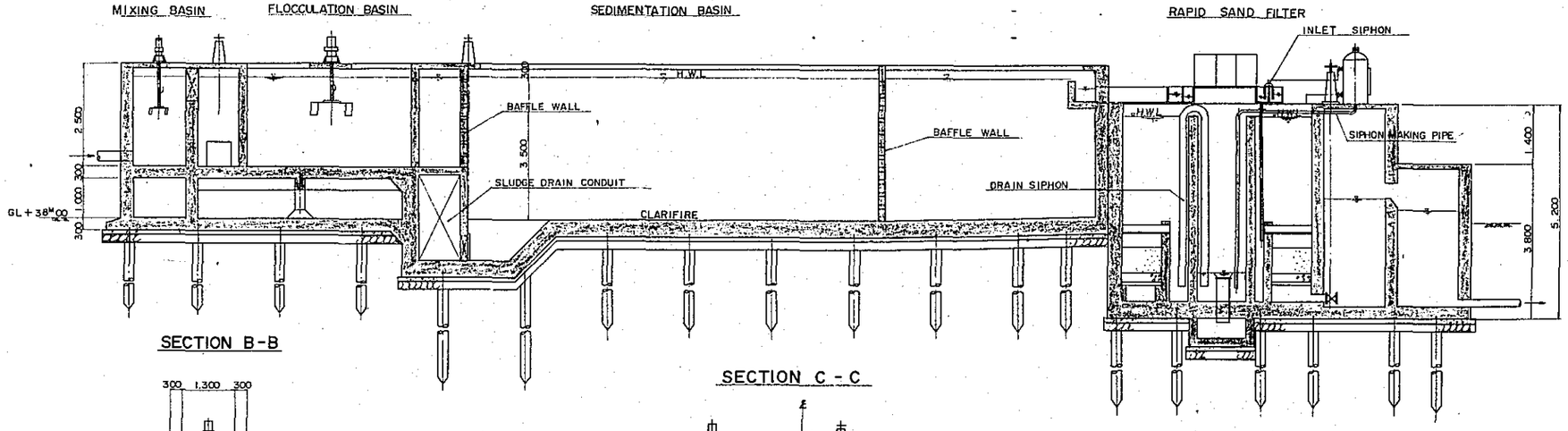

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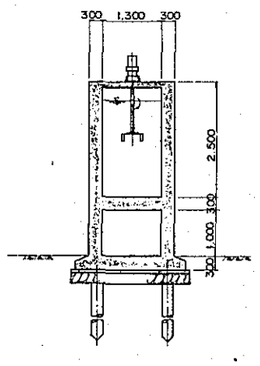

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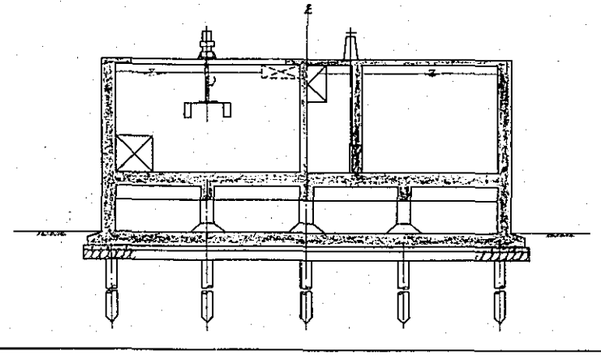


0 1 2 3 4 5m
SCALE

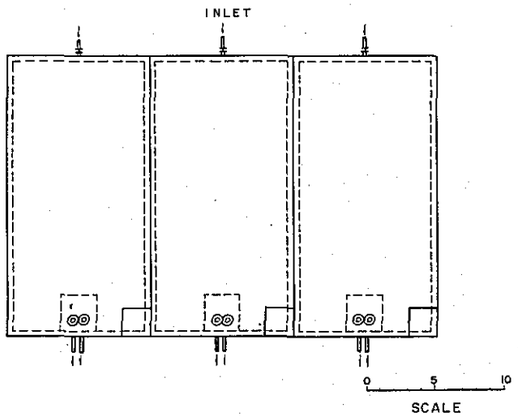
FEASIBILITY STUDY FOR SEPARATE SYSTEM
METROPOLITAN WATER WORKS AUTHORITY
BANGKOK
KINGDOM OF THAILAND

MIXING, FLOCCULATION, SEDIMENTATION BASIN & RAPID SAND FILTER

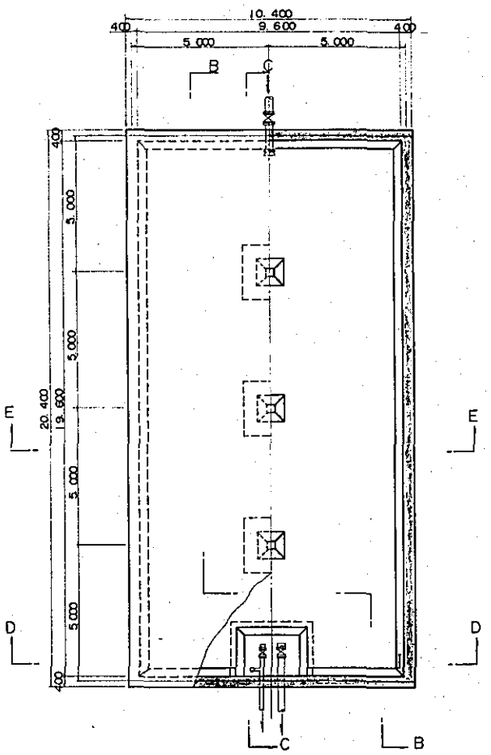
OVERSEAS TECHNICAL COOPERATION AGENCY
TOKYO, JAPAN.

SUBMITTED	APPROVED	SCALE	REV. NO.
DATE		DWG. NO.	L-3

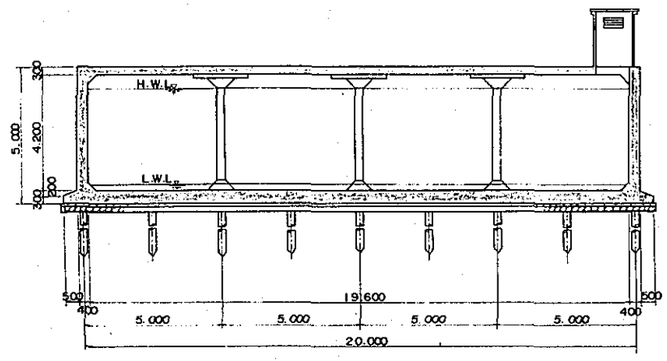
PLAN



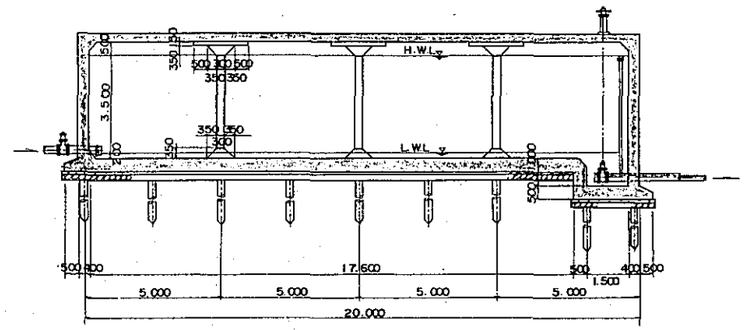
SECTION A-A



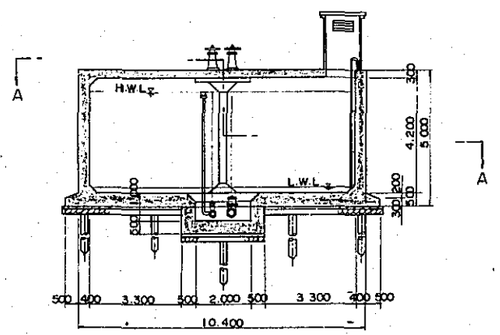
SECTION B-B



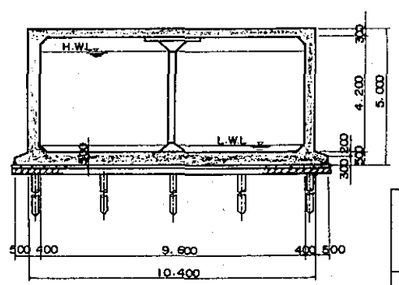
SECTION C-C



SECTION D-D



SECTION E-E



0 5 10m
SCALE

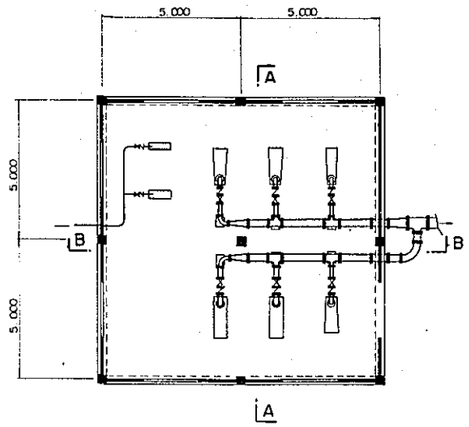
FEASIBILITY STUDY FOR SEPARATE SYSTEM
METROPOLITAN WATER WORKS AUTHORITY
BANGKOK
KINGDOM OF THAILAND

SERVICE RESERVOIR

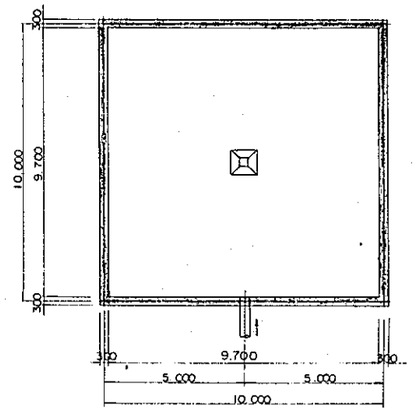
OVERSEAS TECHNICAL COOPERATION AGENCY
TOKYO, JAPAN

SUBMITTED	APPROVED	SCALE	REV. NO.
DATE		DWG. NO.	L - 4

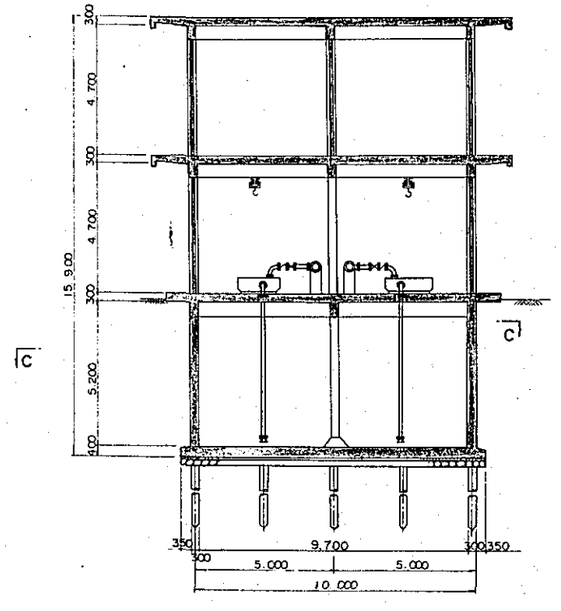
1ST FLOOR PLAN



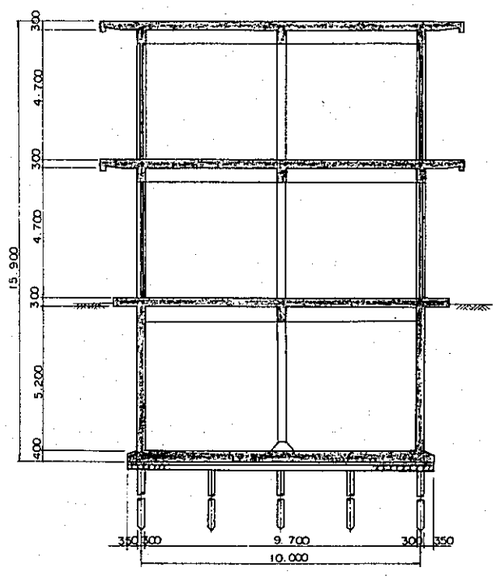
SECTION C-C



SECTION A-A



SECTION B-B



0 5 10m

SCALE

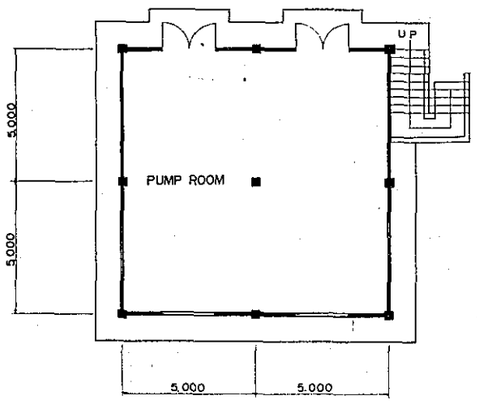
FEASIBILITY STUDY FOR SEPARATE SYSTEM
METROPOLITAN WATER WORKS AUTHORITY
BANGKOK
KINGDOM OF THAILAND

DISTRIBUTION PUMPING WELL

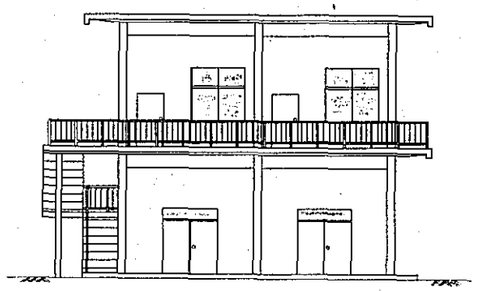
OVERSEAS TECHNICAL COOPERATION AGENCY
TOKYO, JAPAN

SUBMITTED	APPROVED	SCALE	REV. NO.
DATE	DWG. NO.	L - 5	

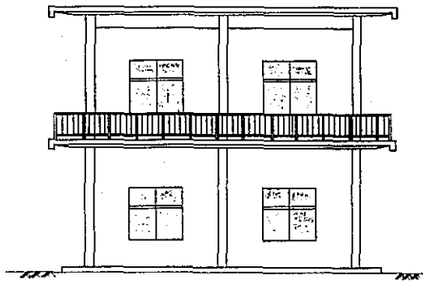
1 ST FLOOR PLAN



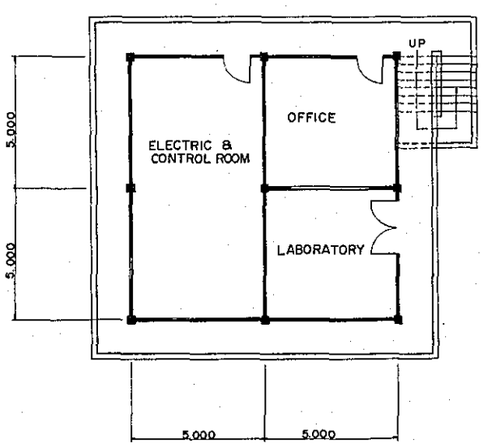
FRONT ELEVATION



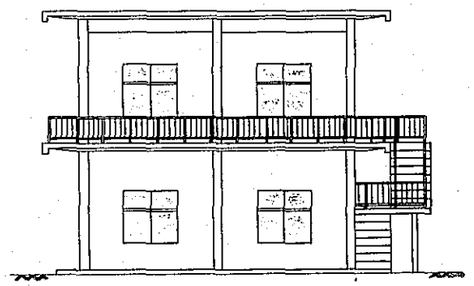
RIGHT ELEVATION



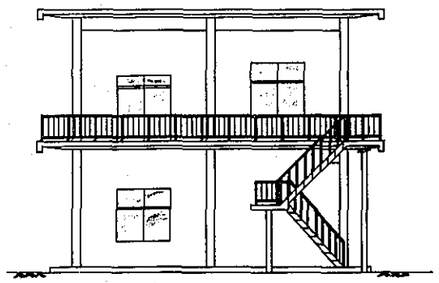
2ND FLOOR PLAN



REAR ELEVATION



LEFT ELEVATION



0 5 10 m

SCALE

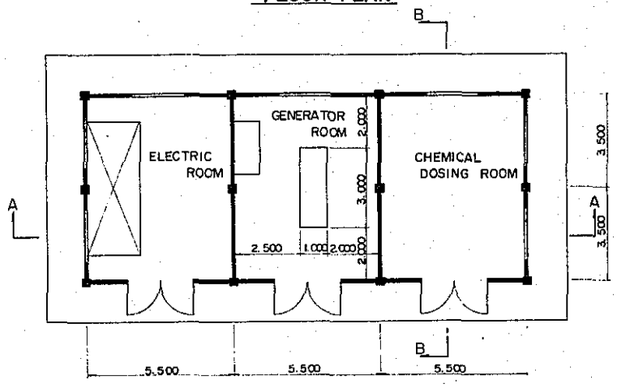
FEASIBILITY STUDY FOR SEPARATE SYSTEM
METROPOLITAN WATER WORKS AUTHORITY
BANGKOK
KINGDOM OF THAILAND

OFFICE, LABORATORY, ELECTRIC ROOM & CONTROL ROOM

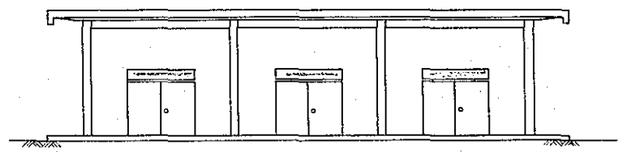
OVERSEAS TECHNICAL COOPERATION AGENCY
TOKYO , JAPAN

SUBMITTED	APPROVED	SCALE	REV. NO.
DATE		DWG. NO.	L – 6

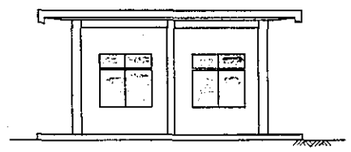
FLOOR PLAN



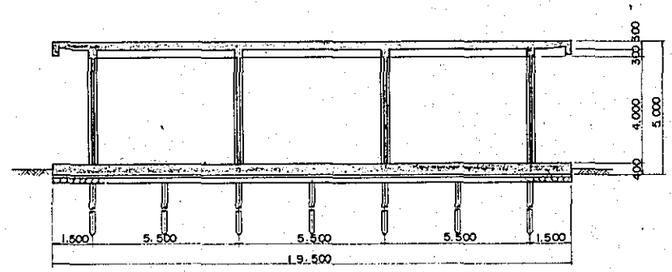
FRONT ELEVATION



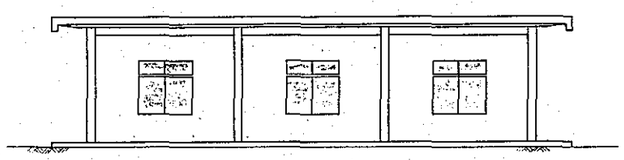
RIGHT ELEVATION



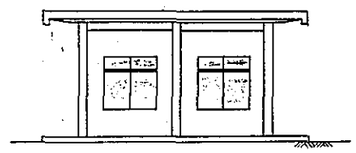
SECTION A - A



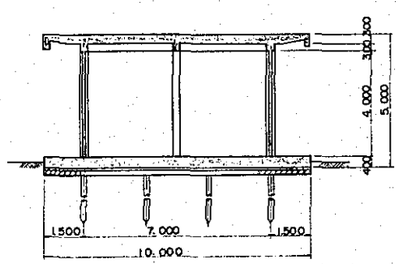
REAR ELEVATION



LEFT ELEVATION



SECTION B - B



0 5 10m

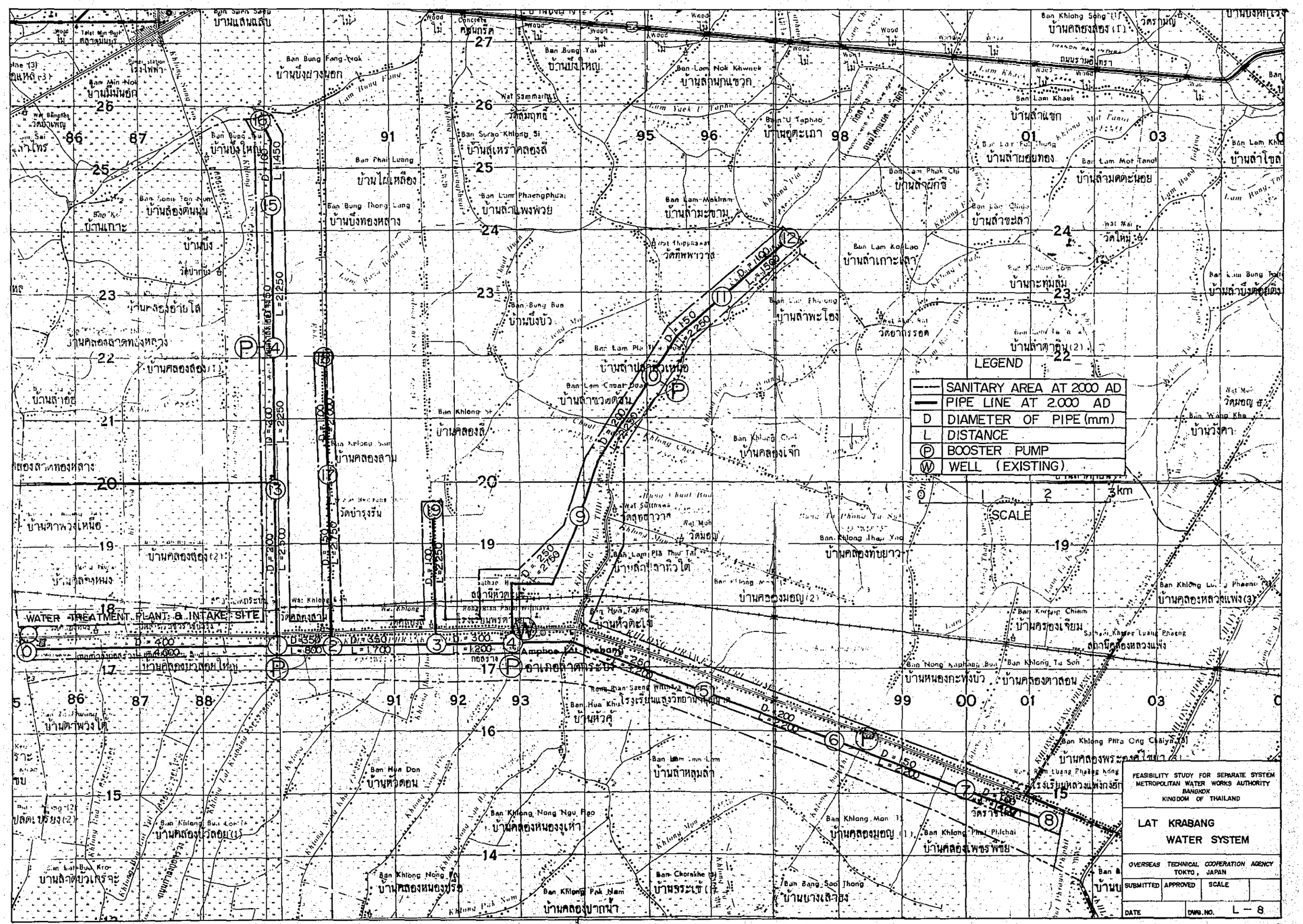
SCALE

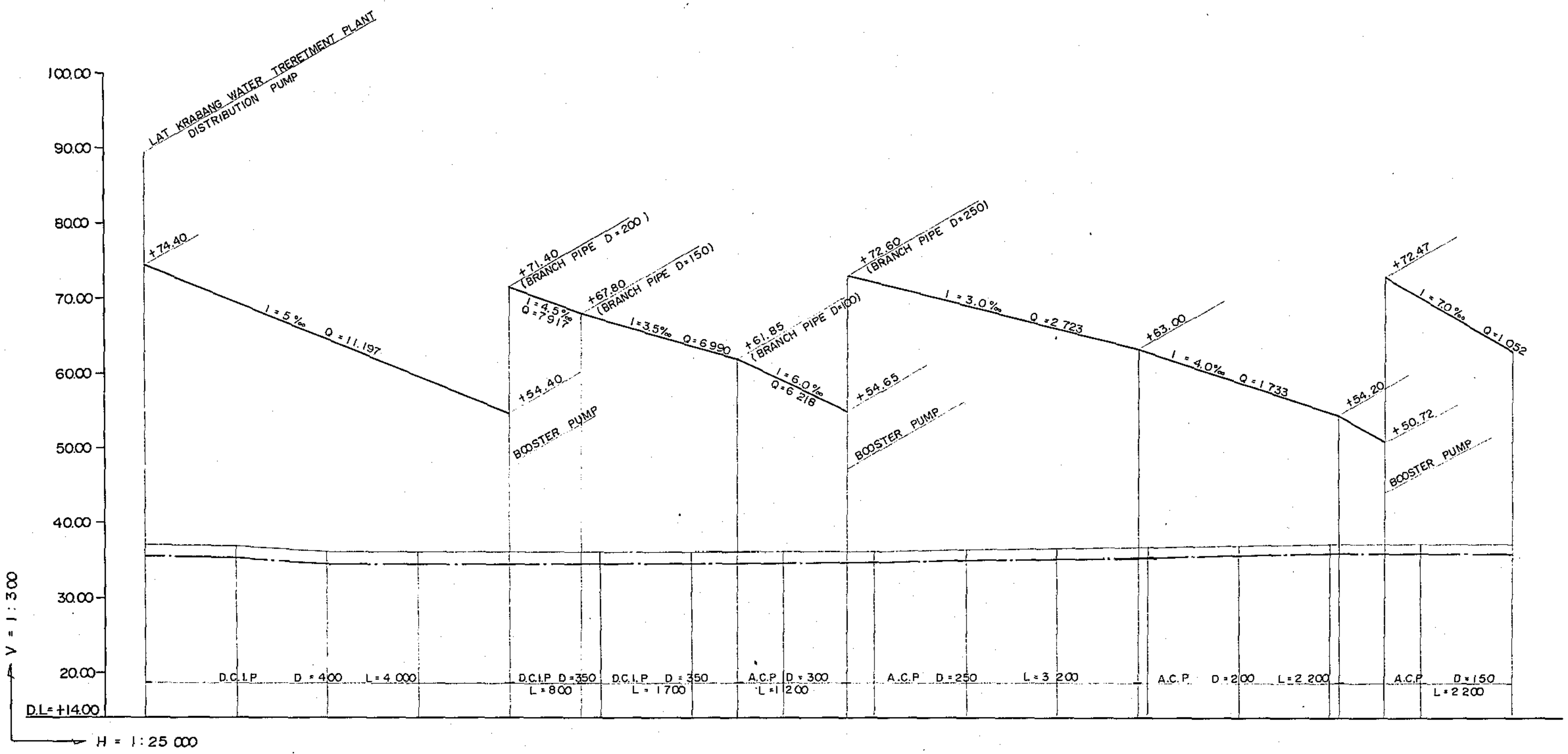
FEASIBILITY STUDY FOR SEPARATE SYSTEM
METROPOLITAN WATER WORKS AUTHORITY
BANGKOK
KINGDOM OF THAILAND

ELECTRIC, GENERATOR & CHEMICAL DOSING ROOM

OVERSEAS TECHNICAL COOPERATION AGENCY
TOKYO, JAPAN

SUBMITTED	APPROVED	SCALE	REV. NO.
DATE		DWG. NO.	L - 7


LEGEND
SANITARY AREA AT 2000 AD
PIPE LINE AT 2.000 AD
D DIAMETER OF PIPE (mm)
L DISTANCE
Ⓟ BOOSTER PUMP
Ⓦ WELL (EXISTING)
SCALE
0 1 2 3km
WATER TREATMENT PLANT & INTAKE SITE
FEASIBILITY STUDY FOR SEPARATE SYSTEM
METROPOLITAN WATER WORKS AUTHORITY
BANGKOK
KINGDOM OF THAILAND
LAT KRABANG
WATER SYSTEM
OVERSEAS TECHNICAL COOPERATION AGENCY
TOKYO, JAPAN
SUBMITTED
APPROVED
SCALE
DATE
DWG. NO. L – 8



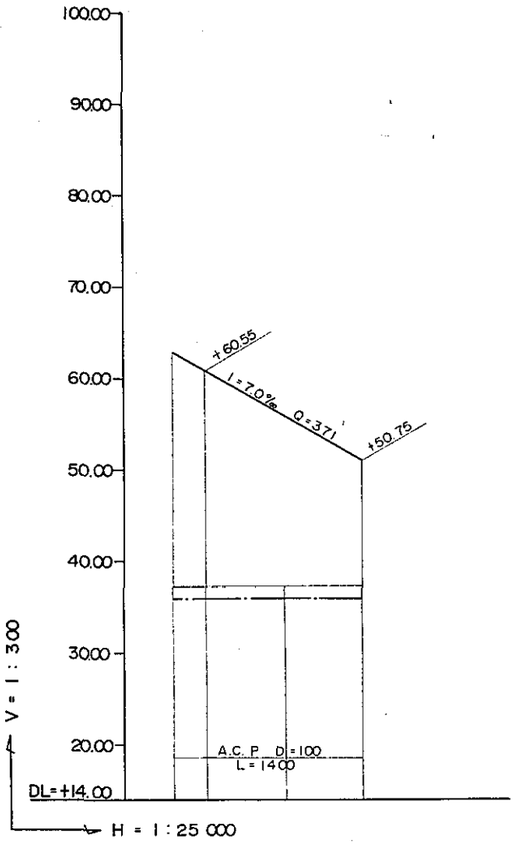
STATIC HEAD	74.40																			74.40
HYDRO DYNAMIC HEAD	74.40				54.40 71.40	67.80			61.85		54.65 72.60				63.00		54.20	50.72 72.47		
EFFECTIVE HEAD	39.00				20.00 37.00	33.38			27.43		20.00 37.95				27.73		18.50	15.00 36.75		
CENTRAL HEIGHT OF PIPE	35.40	35.20	34.40	34.40	34.40	34.42	34.42	34.42	34.42	34.65	34.65	34.67	34.87	35.07	35.27 35.30	35.00	35.70 35.70	35.72	35.72	35.72
GROUND HEIGHT	37.00	36.80	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.20	36.40	36.60 36.60	36.80	37.00 37.00	37.00	37.00	37.00
TOTAL DISTANCE	0	1 000	2 000	3 000	4 000	4 800	5 000	6 000	6 500	7 000	7 700	8 000	9 000	10 000	10 900 11 000	12 000	13 000 13 100	13 600	14 000	15 000
SECTIONAL DISTANCE	0	1 000	1 000	1 000	1 000	800	700	1 000	500	1 000	700	1 000	1 000	1 000	900 100	1 000	1 000 100	500	400	1 000
STATION	0				1	2			3		4				5		6			

FEASIBILITY STUDY FOR SEPARATE SYSTEM
METROPOLITAN WATER WORKS AUTHORITY
BANGKOK
KINGDOM OF THAILAND

LONGITUDINAL SECTION OF LAT KRABANG (I)

OVERSEAS TECHNICAL COOPERATION AGENCY
TOKYO, JAPAN

SUBMITTED	APPROVED	SCALE	REV. NO.
DATE	DWG. NO. L – 9		



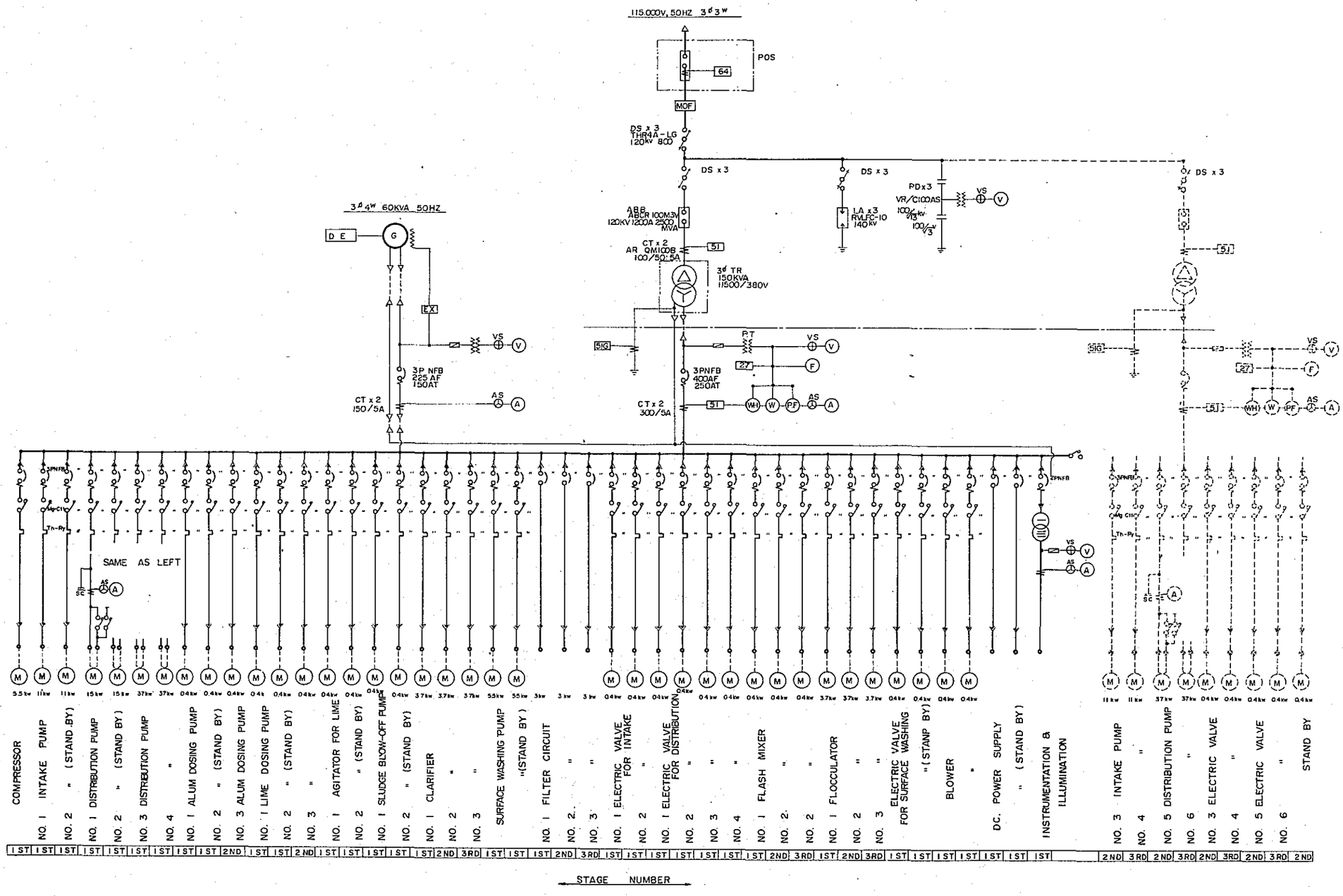
STATION	⑦			⑧			
SECTIONAL DISTANCE	0	300	700	700			
TOTAL DISTANCE	15 000	15 300	16 000	16 700			
GROUND HEIGHT	37.00	37.00	37.00	37.00			
CENTRAL HEIGHT OF PIPE	35.72	35.72	35.75	35.75			
EFFECTIVE HEAD		24.83		15.00			
HYDRO DYNAMIC HEAD		60.55		50.75			
STATIC HEAD	74.40			74.40			

FEASIBILITY STUDY FOR SEPARATE SYSTEM
METROPOLITAN WATER WORKS AUTHORITY
BANGKOK
KINGDOM OF THAILAND

LONGITUDINAL SECTION OF LAT KRABANG (2)

OVERSEAS TECHNICAL COOPERATION AGENCY
TOKYO, JAPAN

SUBMITTED	APPROVED	SCALE	REV. NO.
DATE		DWG. NO.	L – 10



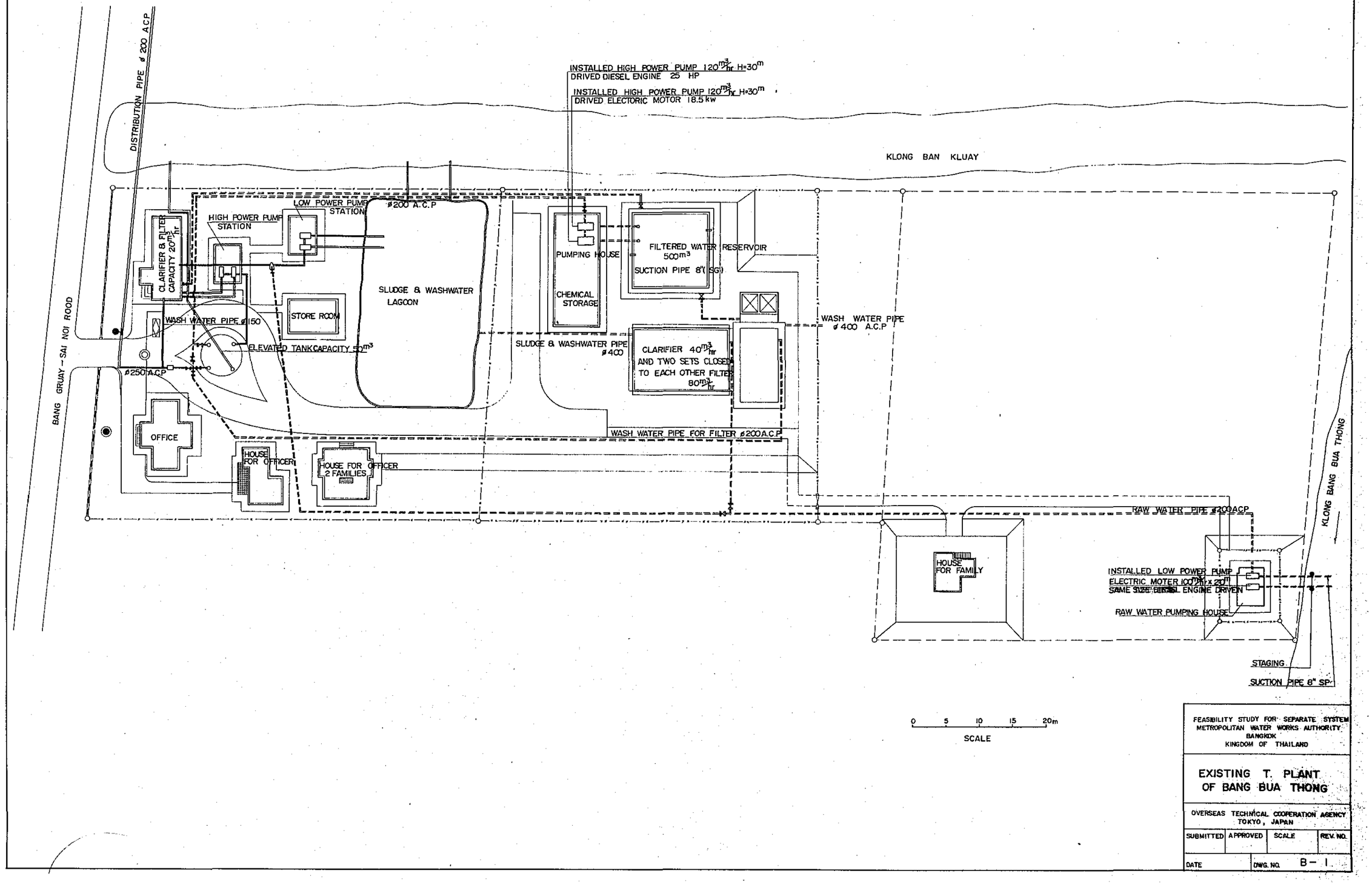
FEASIBILITY STUDY FOR SEPARATE SYSTEM
METROPOLITAN WATER WORKS AUTHORITY
BANGKOK
KINGDOM OF THAILAND

ELECTRIC SKELETON FOR LAT-KRABANG

OVERSEAS TECHNICAL COOPERATION AGENCY
TOKYO, JAPAN

SUBMITTED	APPROVED	SCALE	REV. NO.
DATE	DWG. NO.	L – 11	

BANG BUA THONG, BANG YAI
& SAI NOI WATER SYSTEM



FEASIBILITY STUDY FOR SEPARATE SYSTEM
METROPOLITAN WATER WORKS AUTHORITY
BANGKOK
KINGDOM OF THAILAND

EXISTING T. PLANT OF BANG BUA THONG

OVERSEAS TECHNICAL COOPERATION AGENCY
TOKYO, JAPAN

SUBMITTED	APPROVED	SCALE	REV. NO.
DATE		DWG. NO.	B – 1

KLONG BAN KLUAY

BANG GRUAI - SAI NOI ROAD

DISTRIBUTION PUMPING WELL

OFFICE

SERVICE RESERVOIR

1 ST. STAGE

2 ND. STAGE

3RD. STAGE

SLUDGE PIT

RAPID SAND FILTER

1 ST. STAGE

2 ND. STAGE

3RD. STAGE

SEDIMENTATION BASIN

FLOCCULATION BASIN

MIXING BASIN

SLUDGE BASIN

ELECTRIC GENERATOR & CHEMICAL ROOM

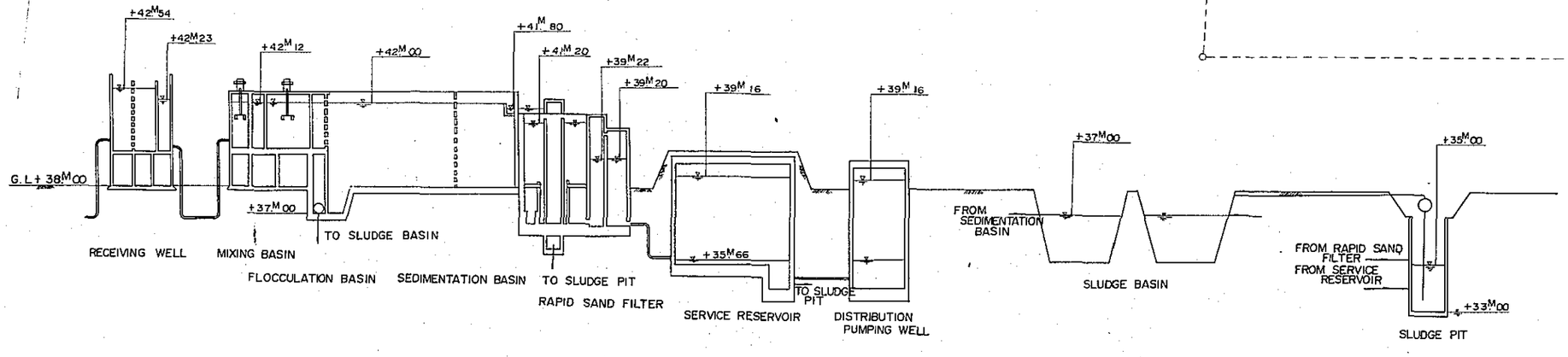
RECEIVING WELL

FROM INTAKE SITE

KLONG BANG BUA THONG

0 5 10 15 20 m

SCALE



FEASIBILITY STUDY FOR SEPARATE SYSTEM
METROPOLITAN WATER WORKS AUTHORITY
BANGKOK
KINGDOM OF THAILAND

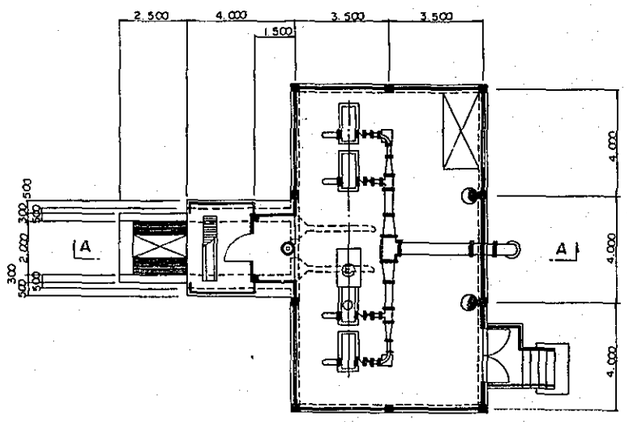
LAYOUT OF FLOW DIAGRAM

OVERSEAS TECHNICAL COOPERATION AGENCY
TOKYO , JAPAN

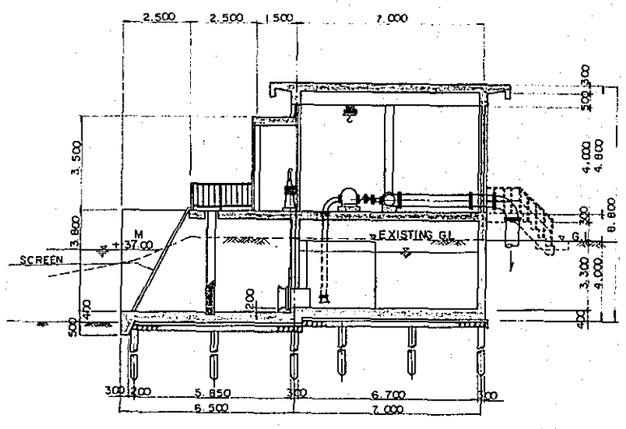
SUBMITTED	APPROVED	SCALE	REV. NO.
DATE		DWG. NO.	B – 2

INTAKE BASIN

PLAN



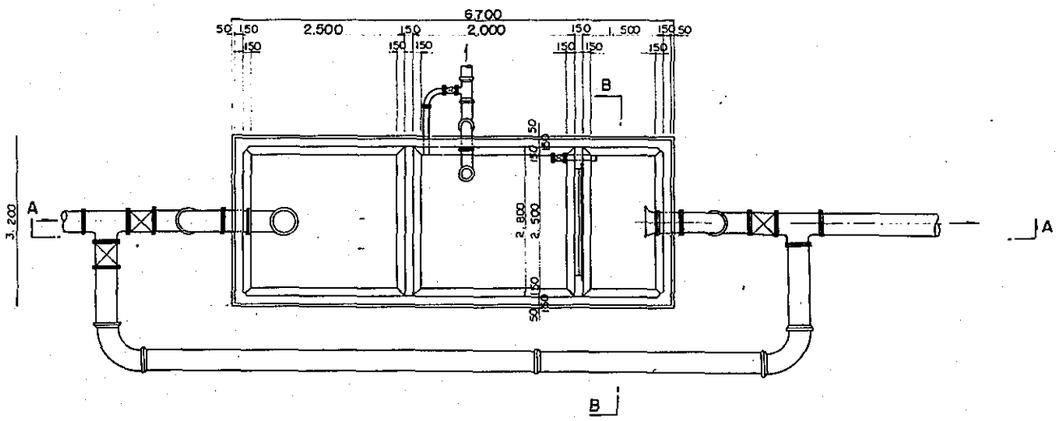
SECTION A-A



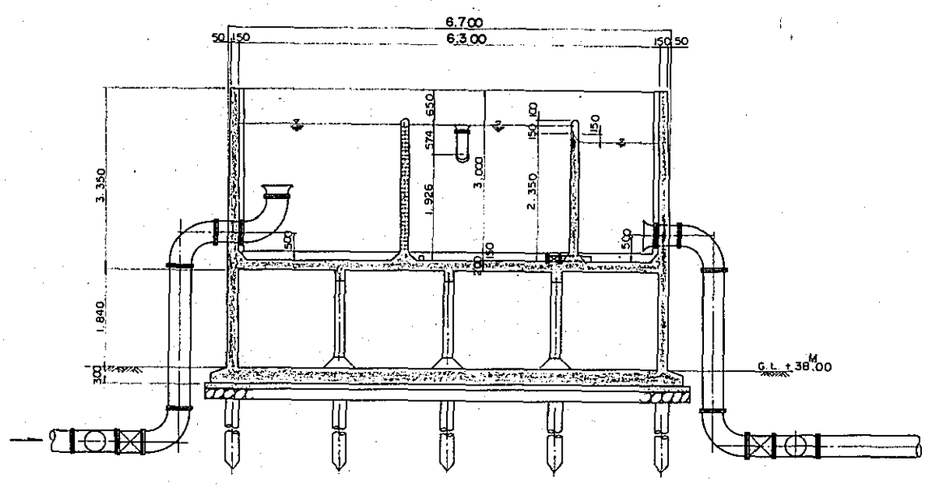
SCALE 0 5 10m

RECEIVING WELL

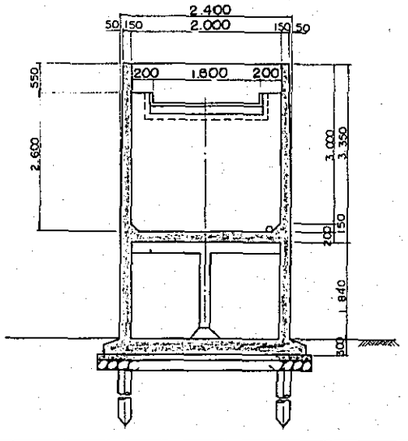
PLAN



SECTION A-A



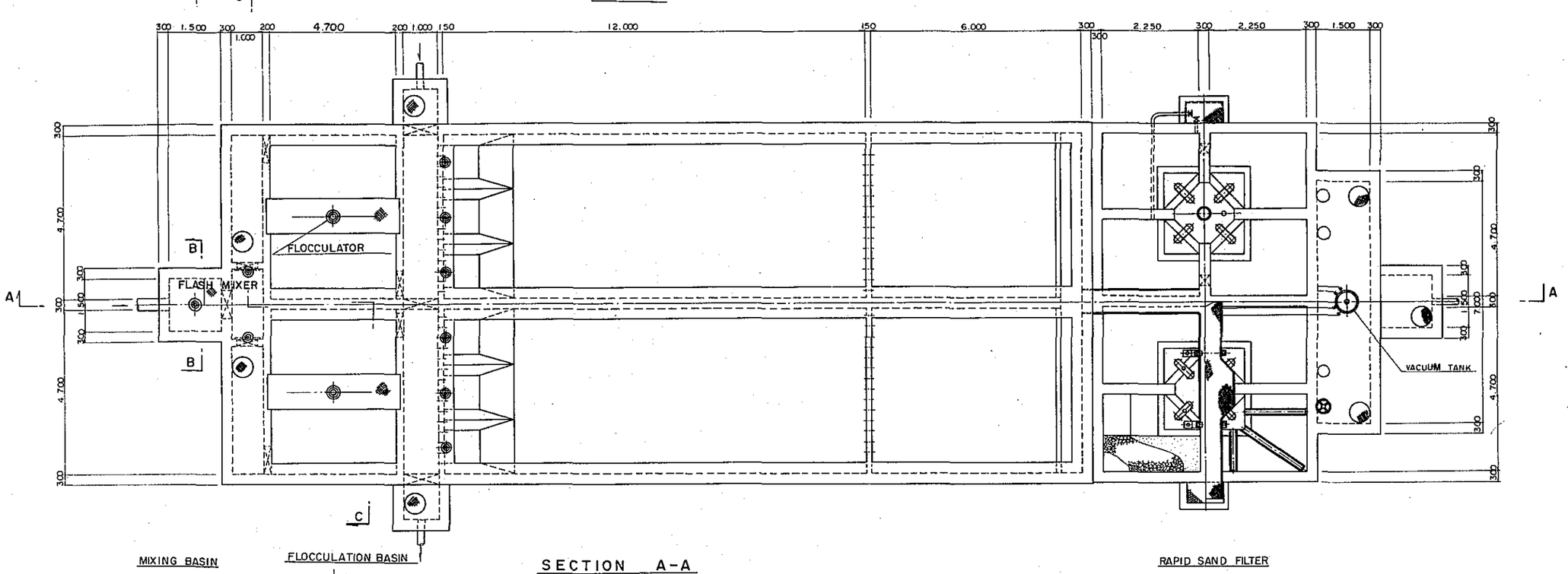
SECTION B-B



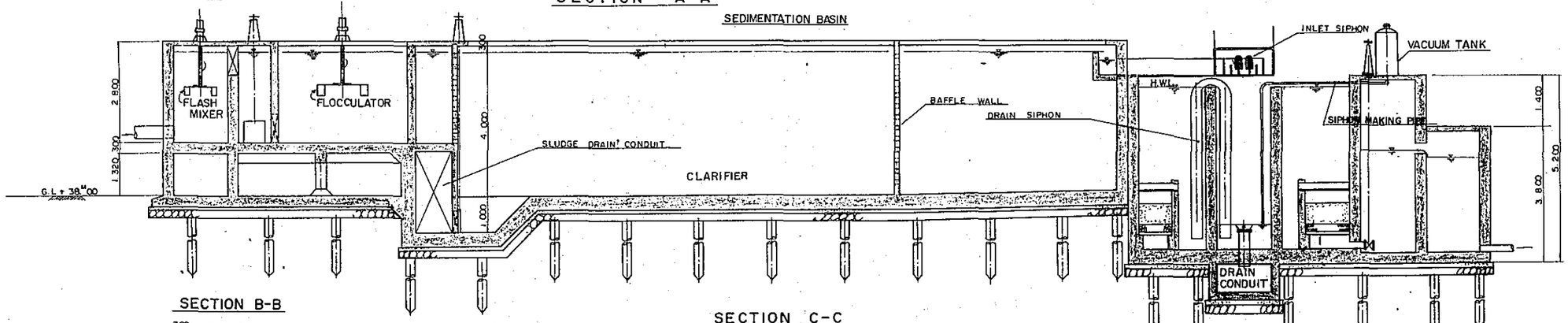
SCALE 0 1 2 3 4 5m

FEASIBILITY STUDY FOR SEPARATE SYSTEM METROPOLITAN WATER WORKS AUTHORITY BANGKOK KINGDOM OF THAILAND	
INTAKE BASIN & RECEIVING WELL	
OVERSEAS TECHNICAL COOPERATION AGENCY TOKYO, JAPAN	
SUBMITTED / APPROVED / SCALE / REV. NO.	
DATE	DWG. NO. B-3

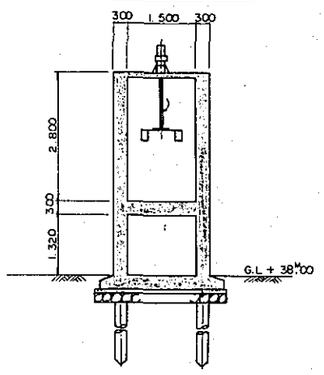
PLAN



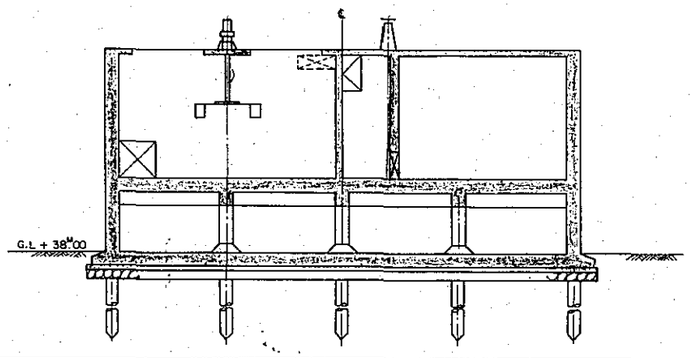
SECTION A-A



SECTION B-B



SECTION C-C



0 1 2 3 4 5m

SCALE

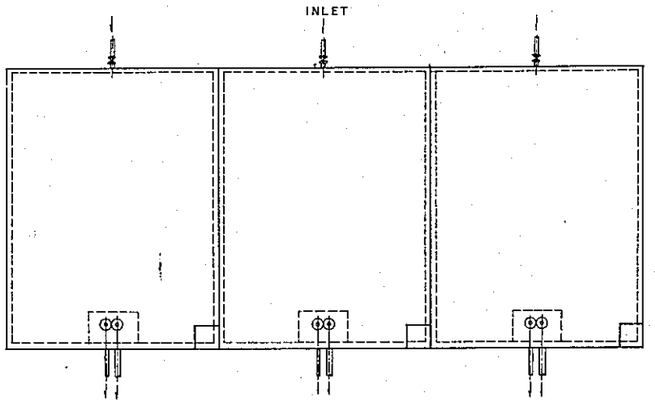
FEASIBILITY STUDY FOR SEPARATE SYSTEM
METROPOLITAN WATER WORKS AUTHORITY
BANGKOK
KINGDOM OF THAILAND

MIXING, FLOCCULATION, SEDIMENTATION & RAPID SAND FILTER

OVERSEAS TECHNICAL COOPERATION AGENCY
TOKYO, JAPAN

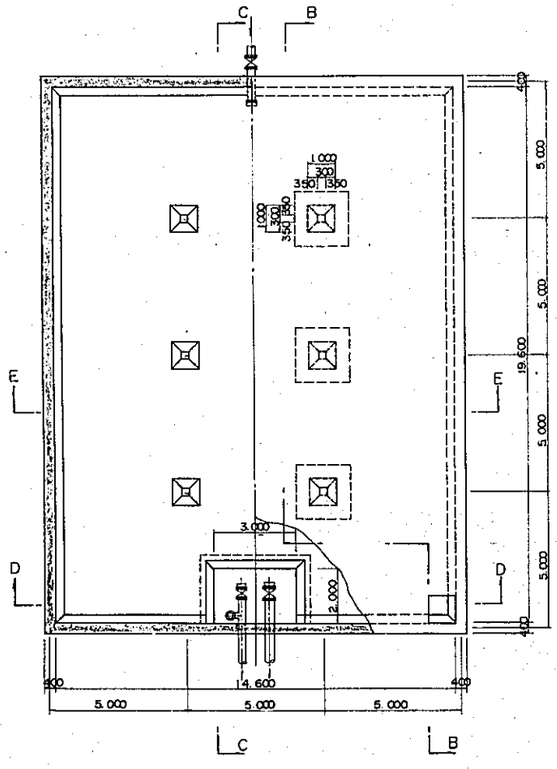
SUBMITTED	APPROVED	SCALE	REV. NO.
DATE		DWG. NO.	B - 4

PLAN

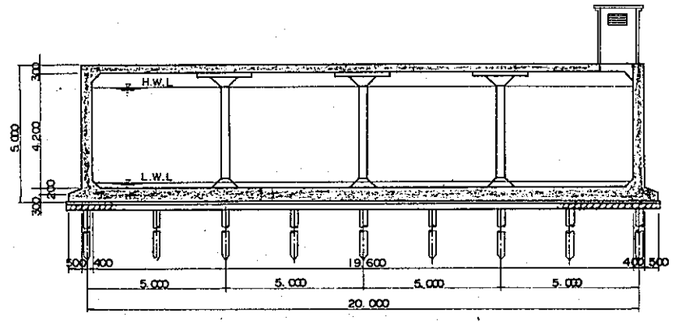


0 5 10 m
SCALE

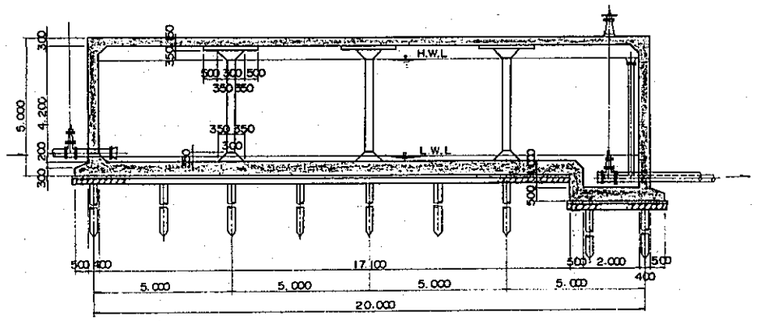
SECTION A – A



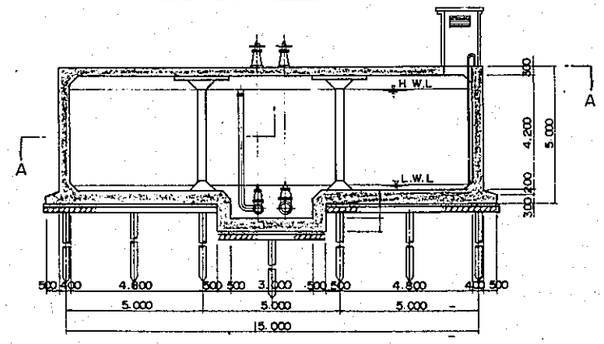
SECTION B – B



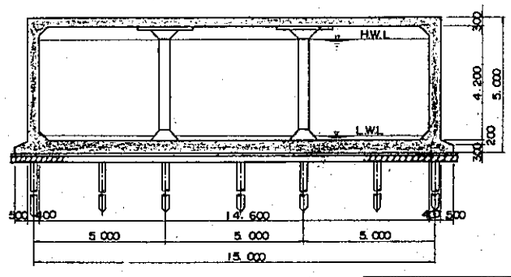
SECTION C – C



SECTION D – D



SECTION E – E



0 5 10 m
SCALE

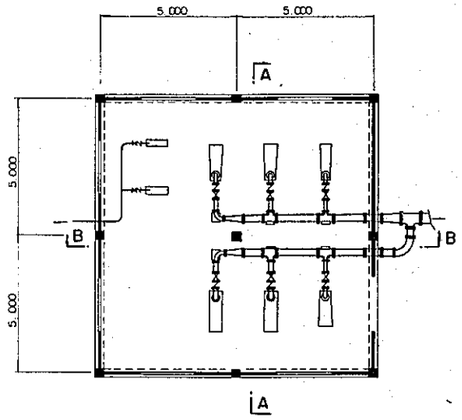
FEASIBILITY STUDY FOR SEPARATE SYSTEM
METROPOLITAN WATER WORKS AUTHORITY
BANGKOK
KINGDOM OF THAILAND

SERVICE RESERVOIR

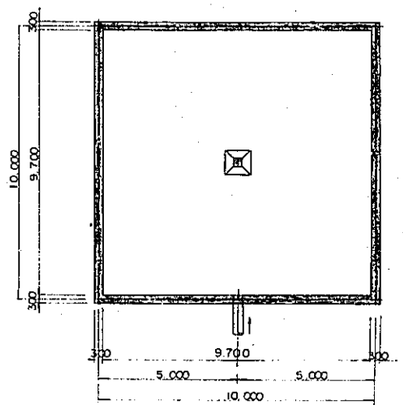
OVERSEAS TECHNICAL COOPERATION AGENCY
TOKYO, JAPAN

SUBMITTED	APPROVED	SCALE	REV. NO.
DATE		DWG. NO.	B – 5

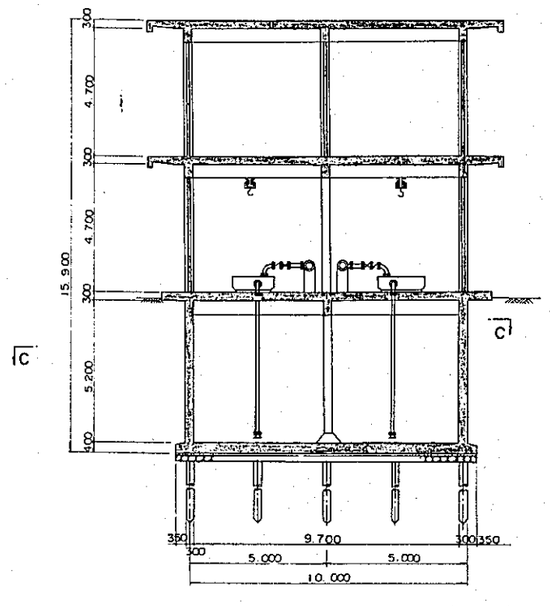
1ST FLOOR PLAN



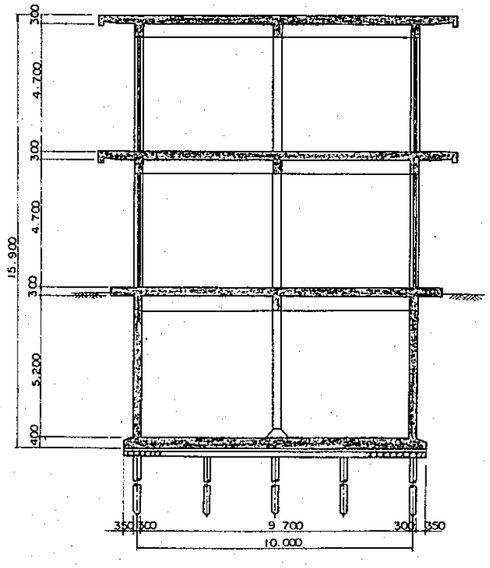
SECTION C-C



SECTION A-A



SECTION B-B



0 5 10m

SCALE

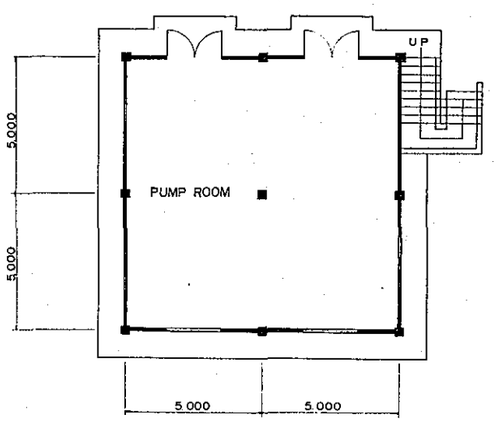
FEASIBILITY STUDY FOR SEPARATE SYSTEM
METROPOLITAN WATER WORKS AUTHORITY
BANGKOK
KINGDOM OF THAILAND

DISTRIBUTION PUMPING WELL

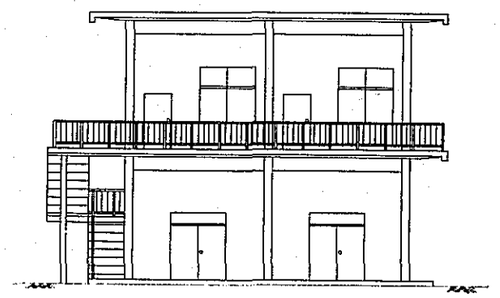
OVERSEAS TECHNICAL COOPERATION AGENCY
TOKYO, JAPAN

SUBMITTED	APPROVED	SCALE	REV. NO.
DATE	DWG. NO.	B – 6	

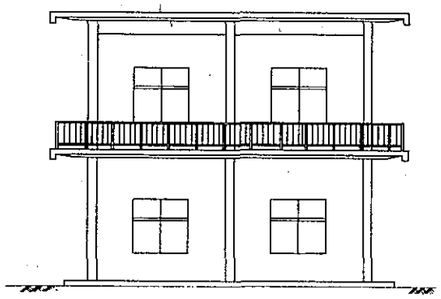
1 ST FLOOR PLAN



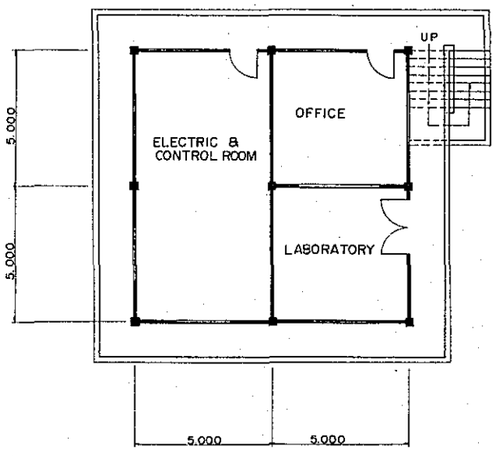
FRONT ELEVATION



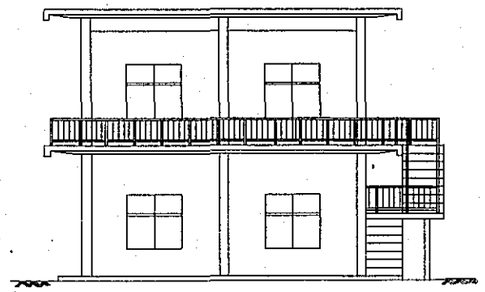
RIGHT ELEVATION



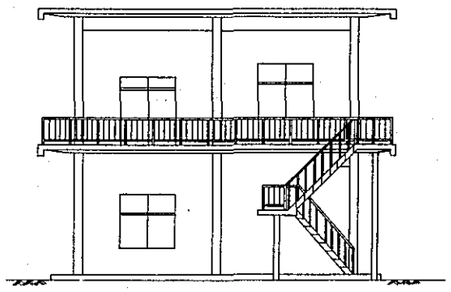
2ND FLOOR PLAN



REAR ELEVATION



LEFT ELEVATION



0 5 10 m

SCALE

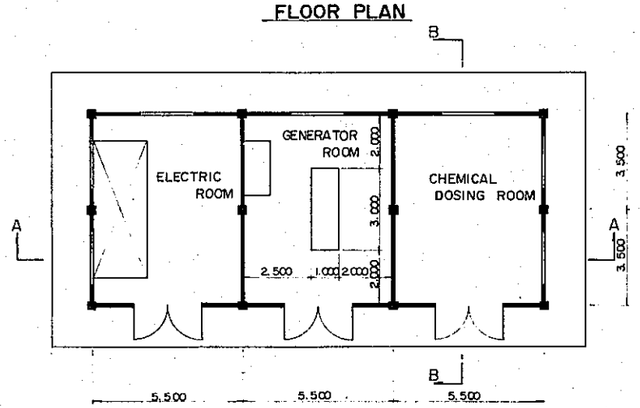
FEASIBILITY STUDY FOR SEPARATE SYSTEM
METROPOLITAN WATER WORKS AUTHORITY
BANGKOK
KINGDOM OF THAILAND

OFFICE, LABORATORY, ELECTRIC ROOM & CONTROL ROOM

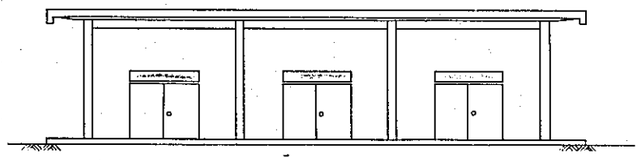
OVERSEAS TECHNICAL COOPERATION AGENCY
TOKYO , JAPAN

SUBMITTED	APPROVED	SCALE	REV. NO.
DATE	DWG. NO.	B – 7	

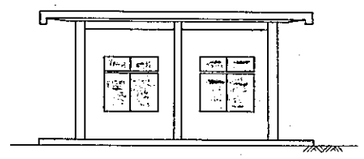
FLOOR PLAN



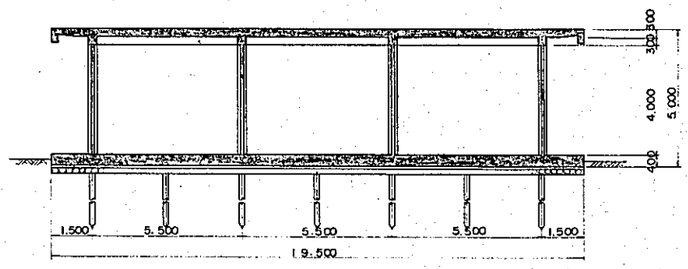
FRONT ELEVATION



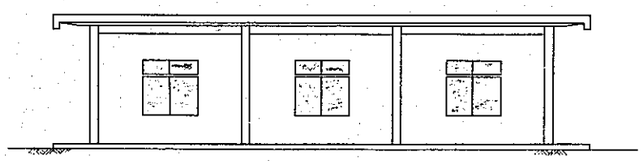
RIGHT ELEVATION



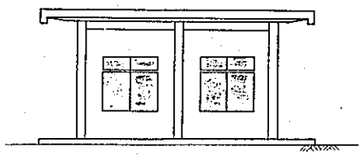
SECTION A - A



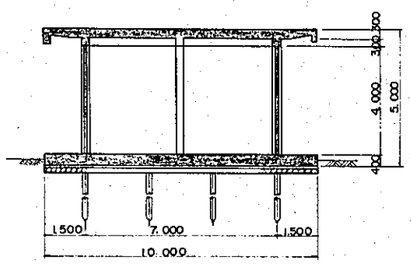
REAR ELEVATION

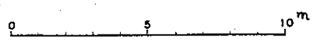


LEFT ELEVATION



SECTION B - B





SCALE

FEASIBILITY STUDY FOR SEPARATE SYSTEM
METROPOLITAN WATER WORKS AUTHORTY
BANGKOK
KINGDOM OF THAILAND

ELECTRIC, GENERATOR & CHEMICAL DOSING ROOM

OVERSEAS TECHNICAL COOPERATION AGENCY
TOKYO, JAPAN

SUBMITTED	APPROVED	SCALE	REV. NO.
DATE	DWG. NO.	B - 8	

SANITARY AREA AT 2.000AD	
PIPE LINE AT 2.000 AD	
RAW. WATER MAIN	
D	DIAMETER OF PIPE (m.m)
L	DISTANCE
Ⓟ	BOOSTER PUMP

0 1 2 3 km
SCALE

RAW WATER MAIN

JINTAKE SITE

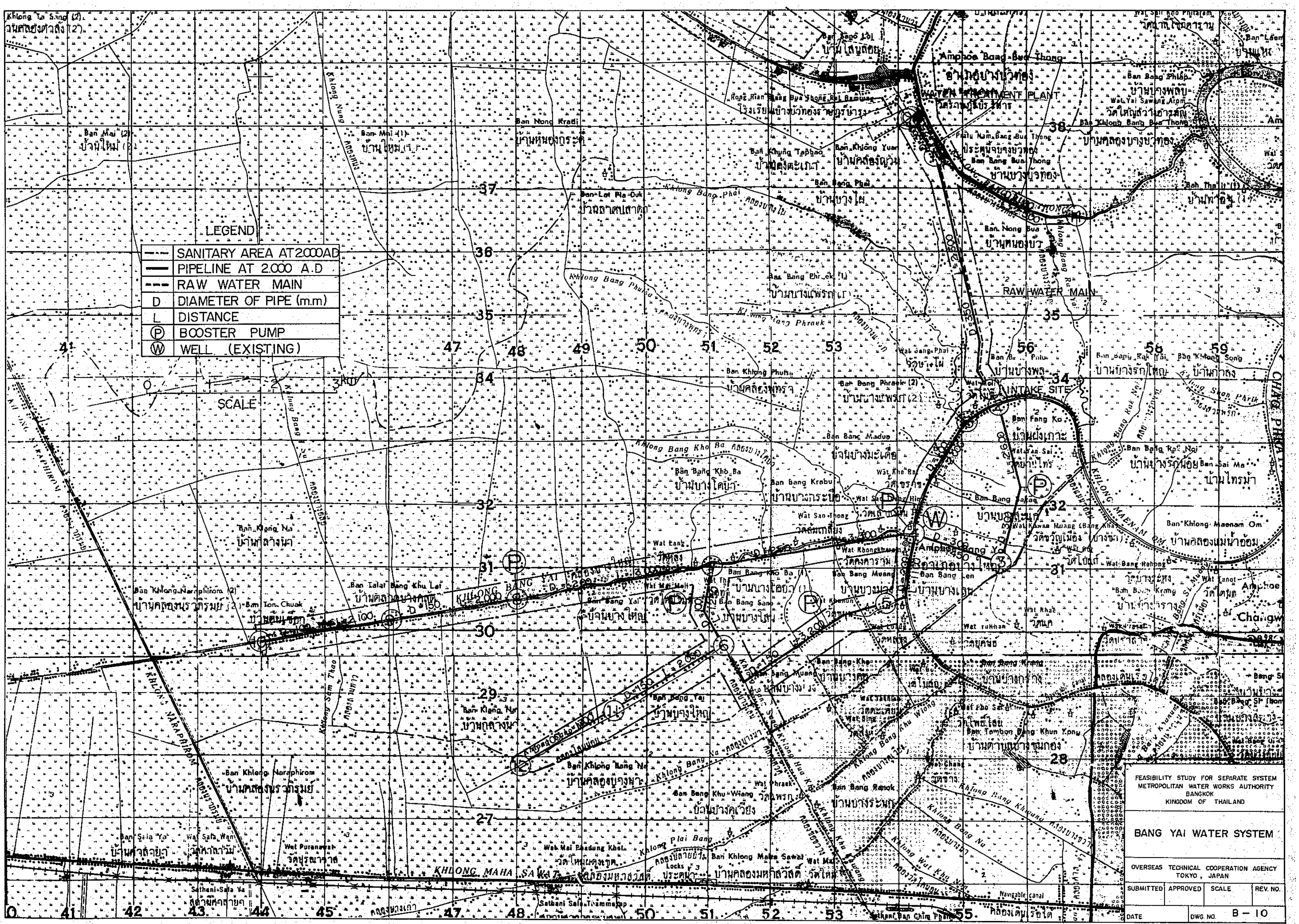
WATER TREATMENT PLANT

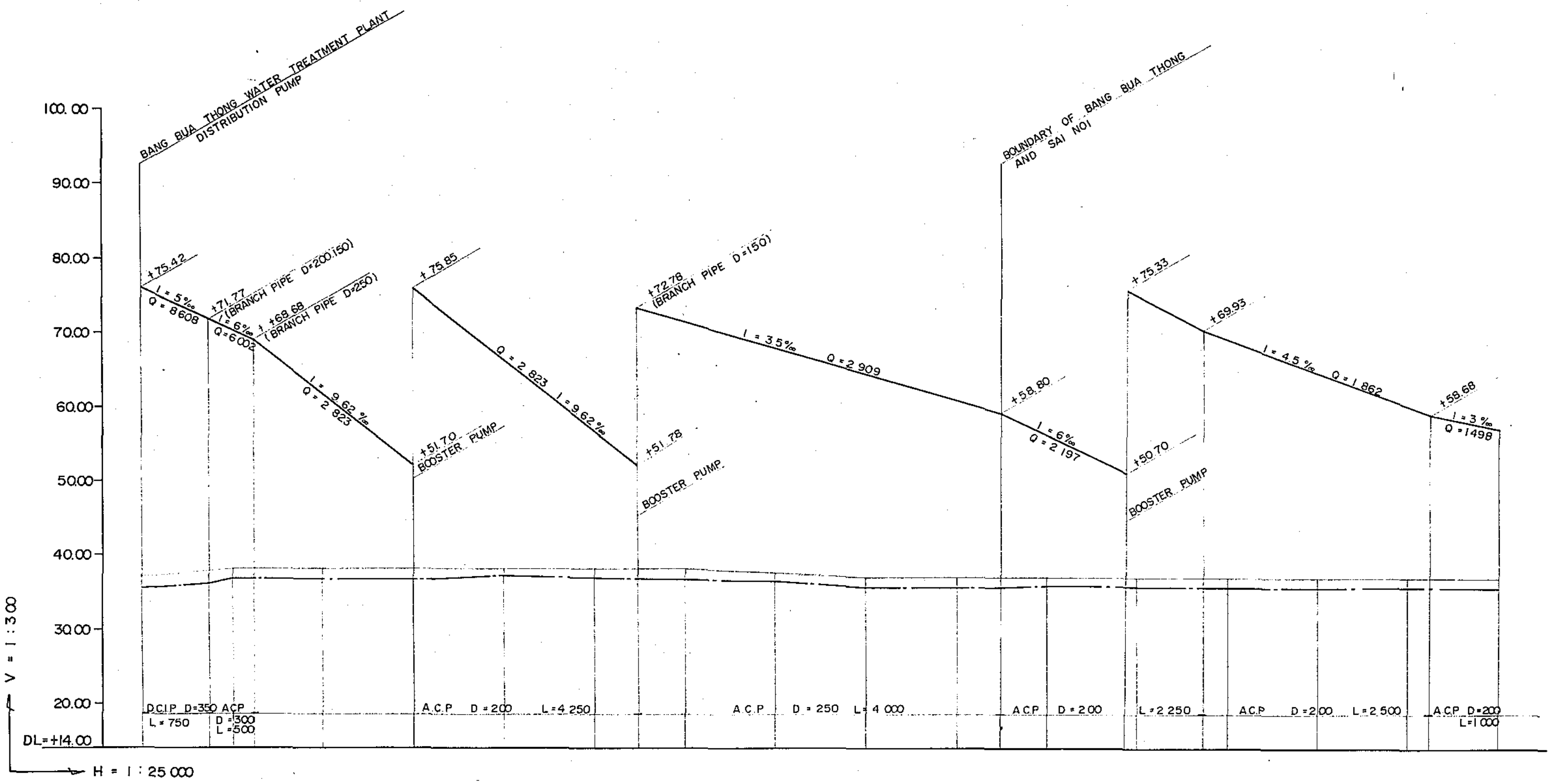
FEASIBILITY STUDY FOR SEPARATE SYSTEM
METROPOLITAN WATER WORKS AUTHORITY
BANGKOK
KINGDOM OF THAILAND

BANG BUA THONG & SAI NOI
WATER SYSTEM

OVERSEAS TECHNICAL COOPERATION AGENCY
TOKYO, JAPAN

SUBMITTED	APPROVED	SCALE	REV NO.
DATE		DWG NO.	B – 9


LEGEND
SANITARY AREA AT 2.000 AD
PIPELINE AT 2.000 A.D
RAW WATER MAIN
D DIAMETER OF PIPE (m.m)
L DISTANCE
Ⓟ BOOSTER PUMP
Ⓦ WELL (EXISTING)
SCALE
WATER TREATMENT PLANT
RAW WATER MAIN
INTAKE SITE
Amphoe Bang Bua Thong
Khlong Bang Phai
Khlong Bang Phutsa
Khlong Bang Phraek
Khlong Bang Kho Ba
KHLONG BANG YAI
KHLONG NARAPHIROM
KHLONG MAHA SAWAT
KHLONG MAENAM OM
Khlong Bang Khu Wiang
Khlong Bang Khwang
Khlong Bang Na
Khlong Plai Bang
Ban Nong Kradi
Ban Lat Pla Duk
Ban Khlong Phutsa
Ban Bang Kho Ba
Ban Bang Krabu
Ban Bang Madue
Ban Fang Ko
Ban Nong Bua
Ban Bang Bua Thong
Ban Klang Na
Ban Khlong Naraphirom
Ban Khlong Bang Na
Ban Bang Yai
Ban Bang Khu Wiang
Ban Bang Ranok
Ban Khlong Maha Sawat
Ban Tombon Bang Khun Kong
Ban Khlong Maenam Om
Ban Sala Ya
Sathani Sala Ya
Navigable canal
FEASIBILITY STUDY FOR SEPARATE SYSTEM
METROPOLITAN WATER WORKS AUTHORITY
BANGKOK
KINGDOM OF THAILAND
BANG YAI WATER SYSTEM
OVERSEAS TECHNICAL COOPERATION AGENCY
TOKYO , JAPAN
SUBMITTED
APPROVED
SCALE
REV. NO.
DATE
DWG. NO. B – 10



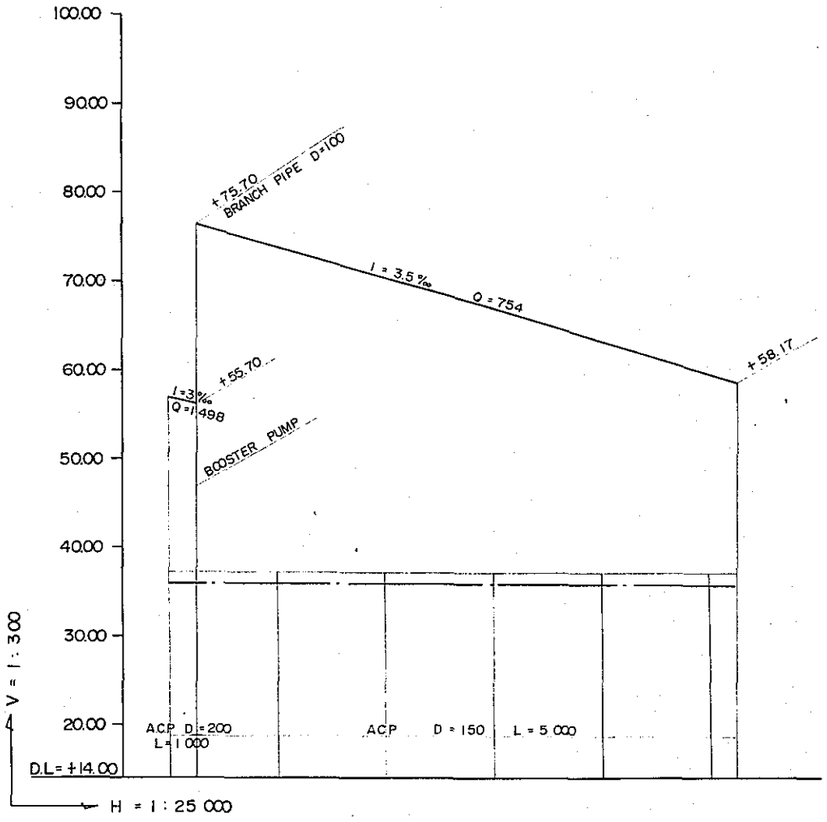
STATIC HEAD	75.42																						75.42
HYDRO DYNAMIC HEAD	75.42	71.77		68.67		51.70 / 75.85			51.78 / 72.78					58.80		50.70 / 75.33		69.93				58.68	
EFFECTIVE HEAD	40.00	35.65		32.03		15.00 / 39.15			15.00 / 36.00					23.13		15.00 / 39.63		34.23				22.98	
CENTRAL HEIGHT OF PIPE	35.42	36.12	36.65	36.65	36.70	36.70	37.20	36.90	36.78	36.67	36.17	35.67	35.67	35.67	35.70	35.70	35.70	35.70	35.70	35.70	35.70	35.70	35.70
GROUND HEIGHT	37.00	37.75	38.00	38.00	38.00	38.00	38.50	38.20	38.10	38.00	37.50	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00
TOTAL DISTANCE	0	750	1 000	1 250	2 000	3 000	4 000	5 000	5 500	6 000	7 000	8 000	9 000	9 500	10 000	10 850	11 000	11 750	12 000	13 000	14 000	14 250	15 000
SECTIONAL DISTANCE	0	750	250	250	750	1 000	1 000	1 000	500	500	1 000	1 000	1 000	500		850	150	750	250	1 000	1 000	250	750
STATION	0	1		2					3					8				9				10	

FEASIBILITY STUDY FOR SEPARATE SYSTEM
METROPOLITAN WATER WORKS AUTHORITY
BANGKOK
KINGDOM OF THAILAND

LONGITUDINAL SECTION OF BANG BUA TONG & SAI NOI (1)

OVERSEAS TECHNICAL COOPERATION AGENCY
TOKYO, JAPAN

SUBMITTED	APPROVED	SCALE	REV. NO.
DATE		DWG. NO.	B — 11



STATION	⑪							
SECTIONAL DISTANCE	0	250	750	1 000	1 000	1 000	1 000	250
TOTAL DISTANCE	15 000	15 250	16 000	17 000	18 000	19 000	20 000	20 250
GROUND HEIGHT	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00
CENTRAL HEIGHT OF PIPE	35.70	35.70	35.72	35.72	35.72	35.72	35.72	35.72
EFFECTIVE HEAD	20.00	40.00					22.45	
HYDRO DYNAMIC HEAD	55.70	75.70					58.17	
STATIC HEAD	75.42	75.70					75.42	

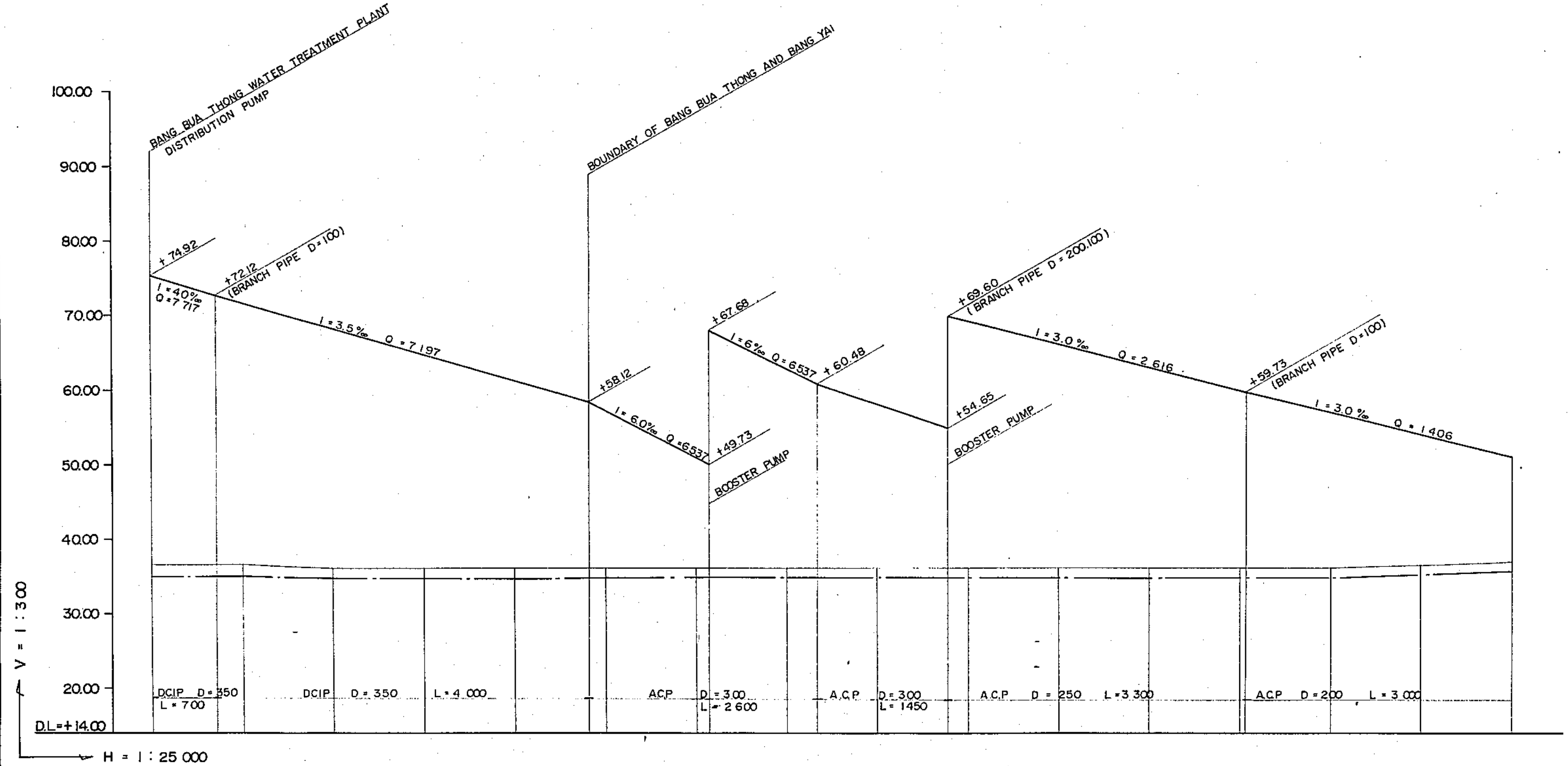
FEASIBILITY STUDY FOR SEPARATE SYSTEM
METROPOLITAN WATER WORKS AUTHORITY
BANGKOK
KINGDOM OF THAILAND

LONGITUDINAL SECTION OF BANG BUA THONG & SAI NOI (2)

OVERSEAS TECHNICAL COOPERATION AGENCY
TOKYO, JAPAN

SUBMITTED	APPROVED	SCALE	REV. NO.

DATE | DWG. NO. B-12



STATIC HEAD	74.92										
HYDRO DYNAMIC HEAD	74.92		72.12				58.12			49.73 / 67.68	
EFFECTIVE HEAD	40.00		37.20				23.70			15.08 / 33.03	
CENTRAL HEIGHT OF PIPE	34.92	34.92	34.92	34.42	34.42	34.42	34.42	34.65	34.65	34.65	34.65
GROUND HEIGHT	36.50	36.50	36.50	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00
TOTAL DISTANCE	0	700	1 000	2 000	3 000	4 000	4 700	5 000	6 000	6 100	7 000
SECTIONAL DISTANCE	0	700	300	1 000	1 000	1 000	700		1 000	100	900
STATION	0	1					2				

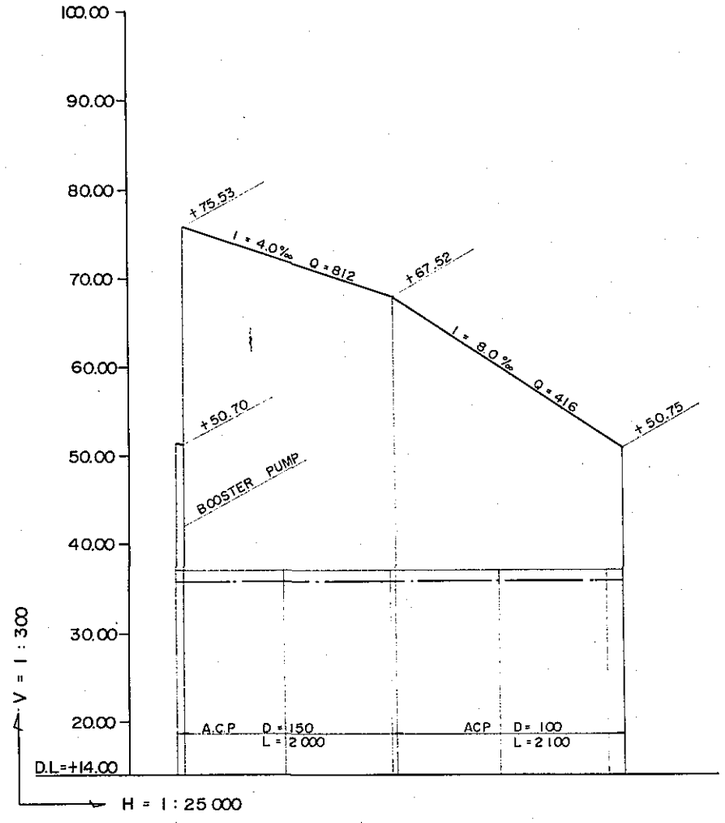
STATIC HEAD										
HYDRO DYNAMIC HEAD	60.48		54.65 / 69.60				59.73			
EFFECTIVE HEAD	25.83		20.00 / 34.95				25.03			
CENTRAL HEIGHT OF PIPE	34.65	34.65	34.65	34.67	34.67	34.67	34.67 / 34.70	34.70	35.20	35.70
GROUND HEIGHT	36.00	36.00	36.00	36.00	36.00	36.00	36.00 / 36.00	36.00	36.50	37.00
TOTAL DISTANCE	7 300	8 000	8 750	9 000	10 000	11 000	12 000 / 12 000	13 000	14 000	15 000
SECTIONAL DISTANCE	300	1 000	750	250	1 000	1 000	1 000 / 50	950	1 000	1 000
STATION	3		4				7			

FEASIBILITY STUDY FOR SEPARATE SYSTEM
METROPOLITAN WATER WORKS AUTHORITY
BANGKOK
KINGDOM OF THAILAND

LONGITUDINAL SECTION OF BANG YAI (1)

OVERSEAS TECHNICAL COOPERATION AGENCY
TOKYO, JAPAN

SUBMITTED	APPROVED	SCALE	REV. NO.
DATE	DWG. NO. B — 13		



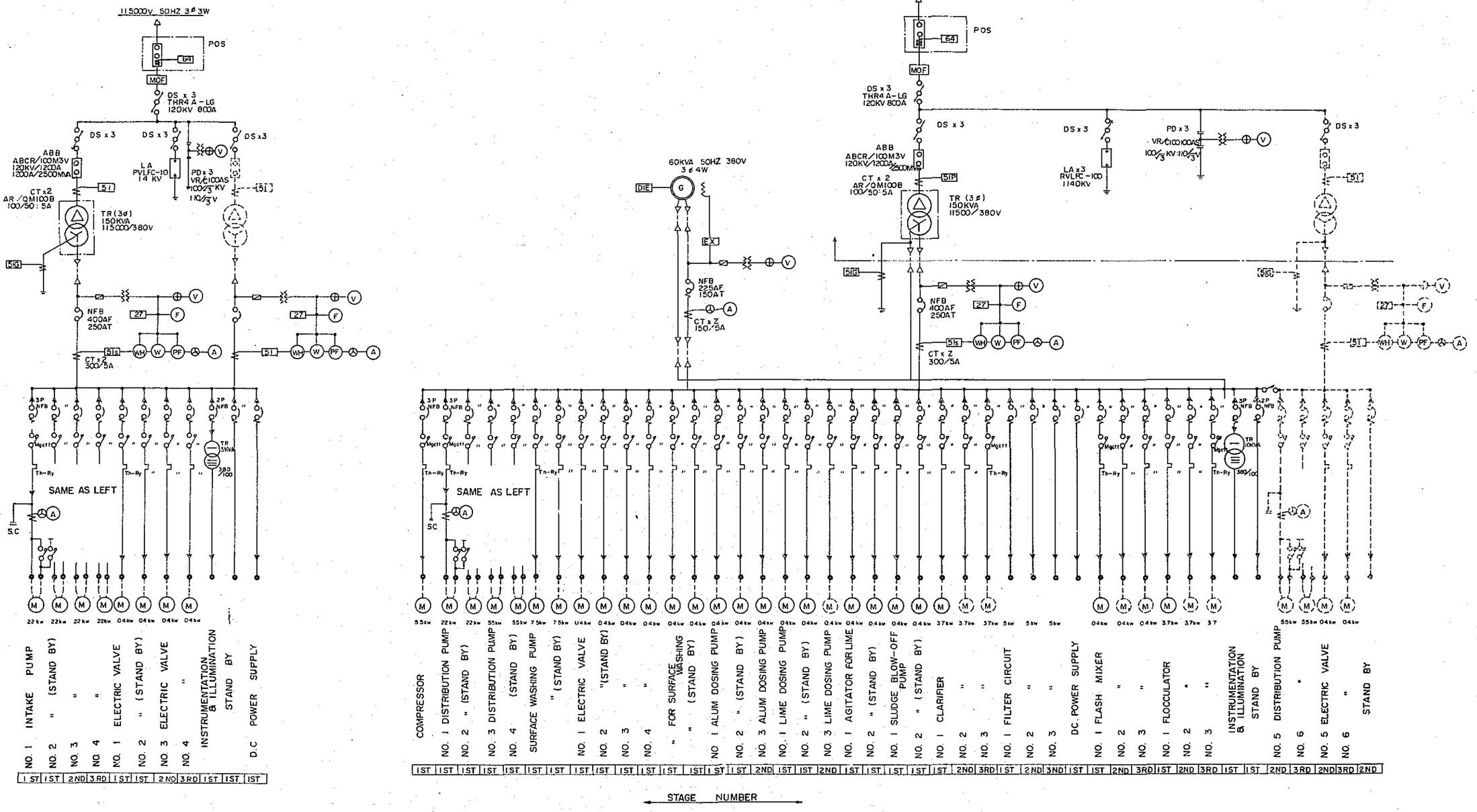
STATION	SECTIONAL DISTANCE	TOTAL DISTANCE	GROUND HEIGHT	CENTRAL HEIGHT OF PIPE	EFFECTIVE HEAD	HYDRO DYNAMIC HEAD	STATIC HEAD
⑨	50	15 000	37.00	35.70	15.00	50.70	74.92
		15 050	37.00	35.70	39.83	75.53	
	950	16 000	37.00	35.72			
	1 000	17 000	37.00	35.72	31.80	67.52	
	50	17 050	37.00	35.72			
	950	18 000	37.00	35.75			
⑩	1 000	19 000	37.00	35.75	-15.00	50.75	74.92
	150	19 150	37.00	35.75			

FEASIBILITY STUDY FOR SEPARATE SYSTEM
METROPOLITAN WATER WORKS AUTHORITY
BANGKOK
KINGDOM OF THAILAND

LONGITUDINAL SECTION OF BANG YAI (2)

OVERSEAS TECHNICAL COOPERATION AGENCY
TOKYO, JAPAN

SUBMITTED	APPROVED	SCALE	REV. NO.
DATE		DWG. NO.	B – 14



FEASIBILITY STUDY FOR SEPARATE SYSTEM
METROPOLITAN WATER WORKS AUTHORITY
BANGKOK
KINGDOM OF THAILAND

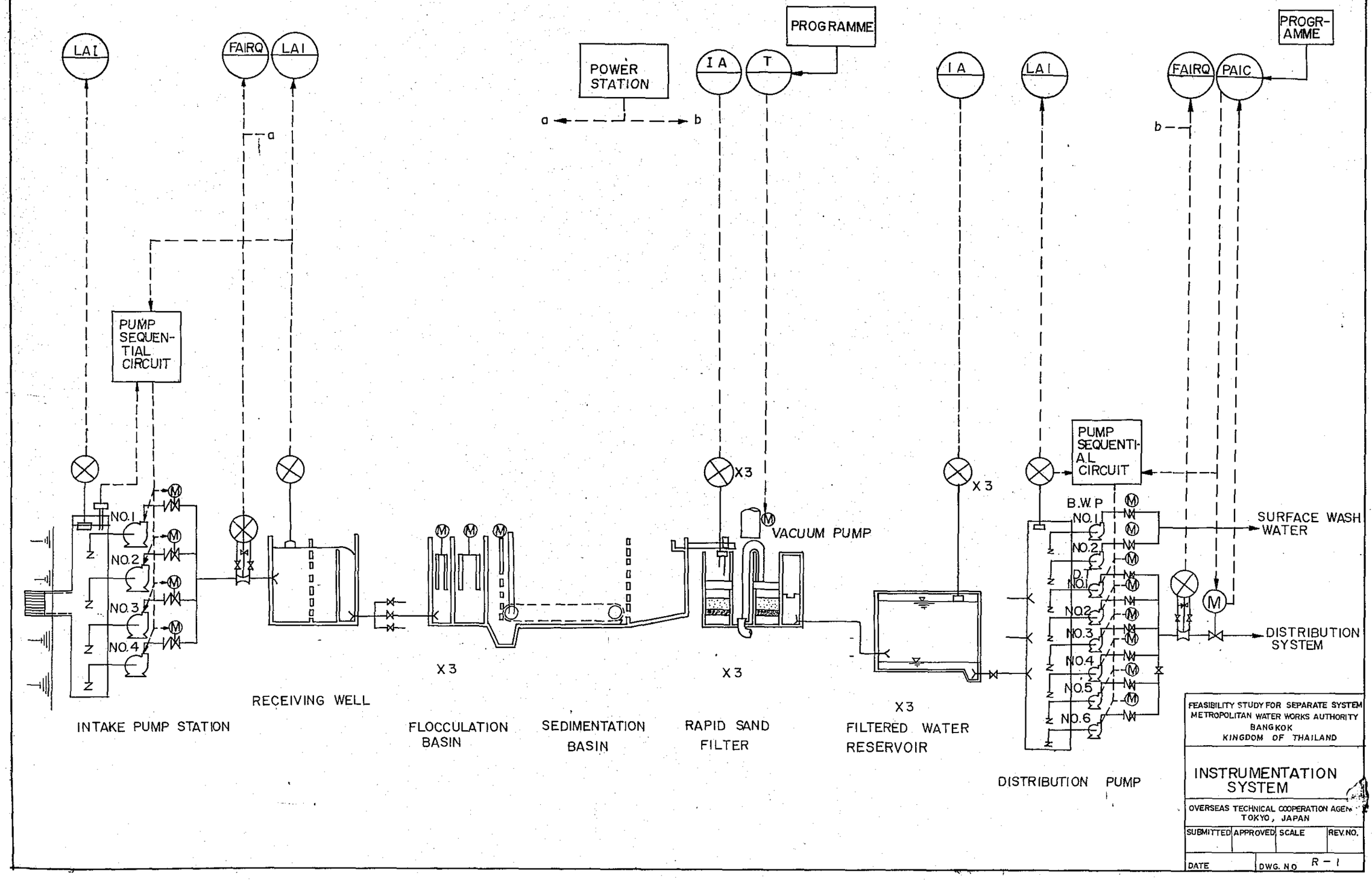
ELECTRIC SKELETON FOR BANG – BUATHONG TREATMENT PLANT

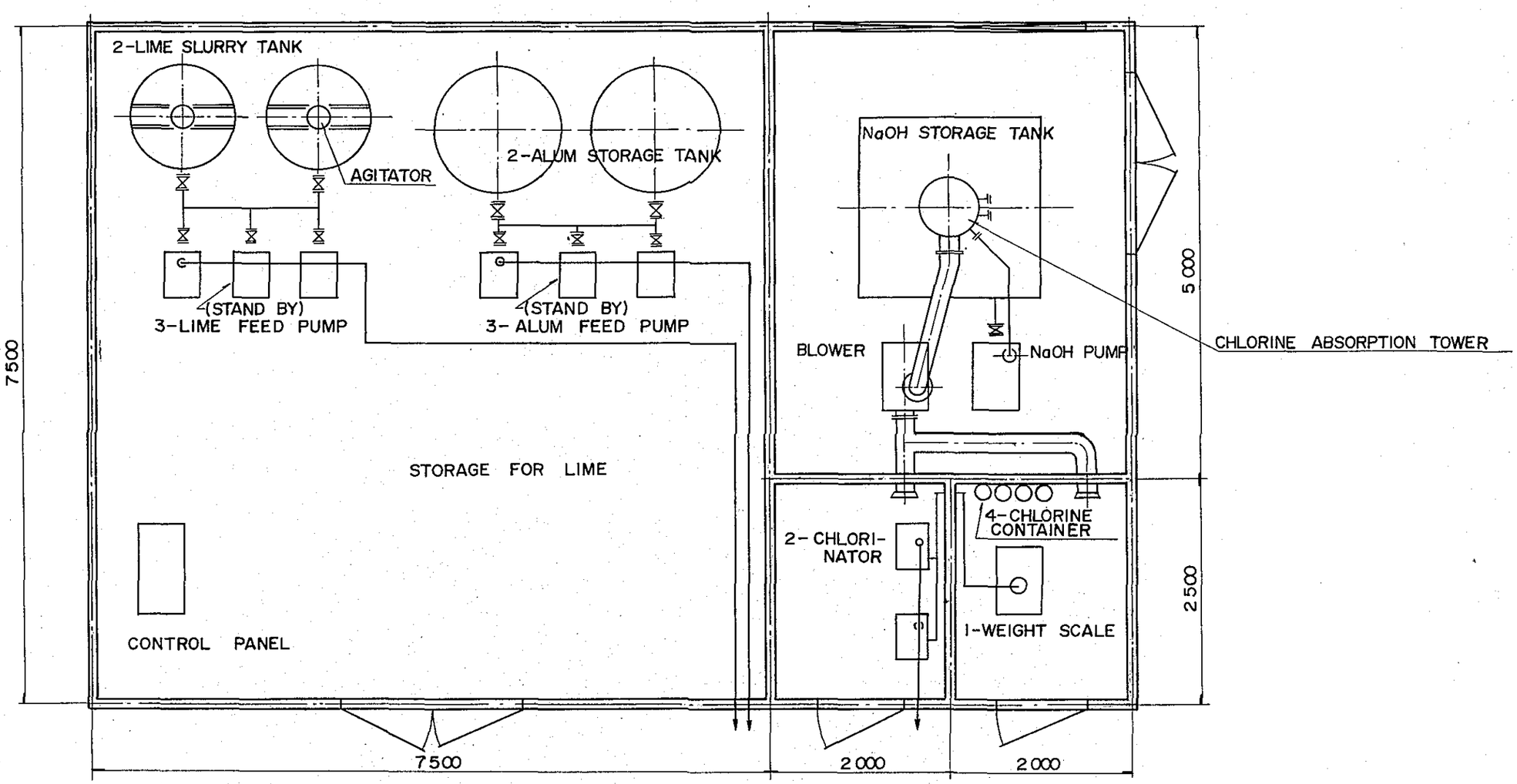
OVERSEAS TECHNICAL COOPERATION AGENCY
TOKYO, JAPAN

SUBMITTED	APPROVED	SCALE	REV. NO.

DATE | DWG. NO. B – 15

FOR REFERENCE


LAI
FAIRQ
LAI
a
PUMP SEQUEN-TIAL CIRCUIT
NO.1
NO.2
NO.3
NO.4
INTAKE PUMP STATION
RECEIVING WELL
X3
FLOCCULATION BASIN
SEDIMENTATION BASIN
POWER STATION
a
b
IA
T
PROGRAMME
X3
VACUUM PUMP
RAPID SAND FILTER
IA
LAI
X3
FILTERED WATER RESERVOIR
PROGR-AMME
FAIRQ
PAIC
b
PUMP SEQUENTI-AL CIRCUIT
B.W.P NO.1
NO.2
D.T NO.1
NO.2
NO.3
NO.4
NO.5
NO.6
SURFACE WASH WATER
DISTRIBUTION SYSTEM
DISTRIBUTION PUMP
FEASIBILITY STUDY FOR SEPARATE SYSTEM
METROPOLITAN WATER WORKS AUTHORITY
BANGKOK
KINGDOM OF THAILAND
INSTRUMENTATION SYSTEM
OVERSEAS TECHNICAL COOPERATION AGEN
TOKYO, JAPAN
SUBMITTED
APPROVED
SCALE
REV.NO.
DATE
DWG. NO R - 1



FEASIBILITY STUDY FOR SEPARATE SYSTEM
METROPOLITAN WATER WORKS AUTHORITY
BANGKOK
KINGDOM OF THAILAND

CHEMICAL DOSING SYSTEM

OVERSEAS TECHNICAL COOPERATION AGENCY
TOKYO , JAPAN

SUBMITTED	APPROVED	SCALE	REV. NO.
DATE		DWG. NO.	R – 2