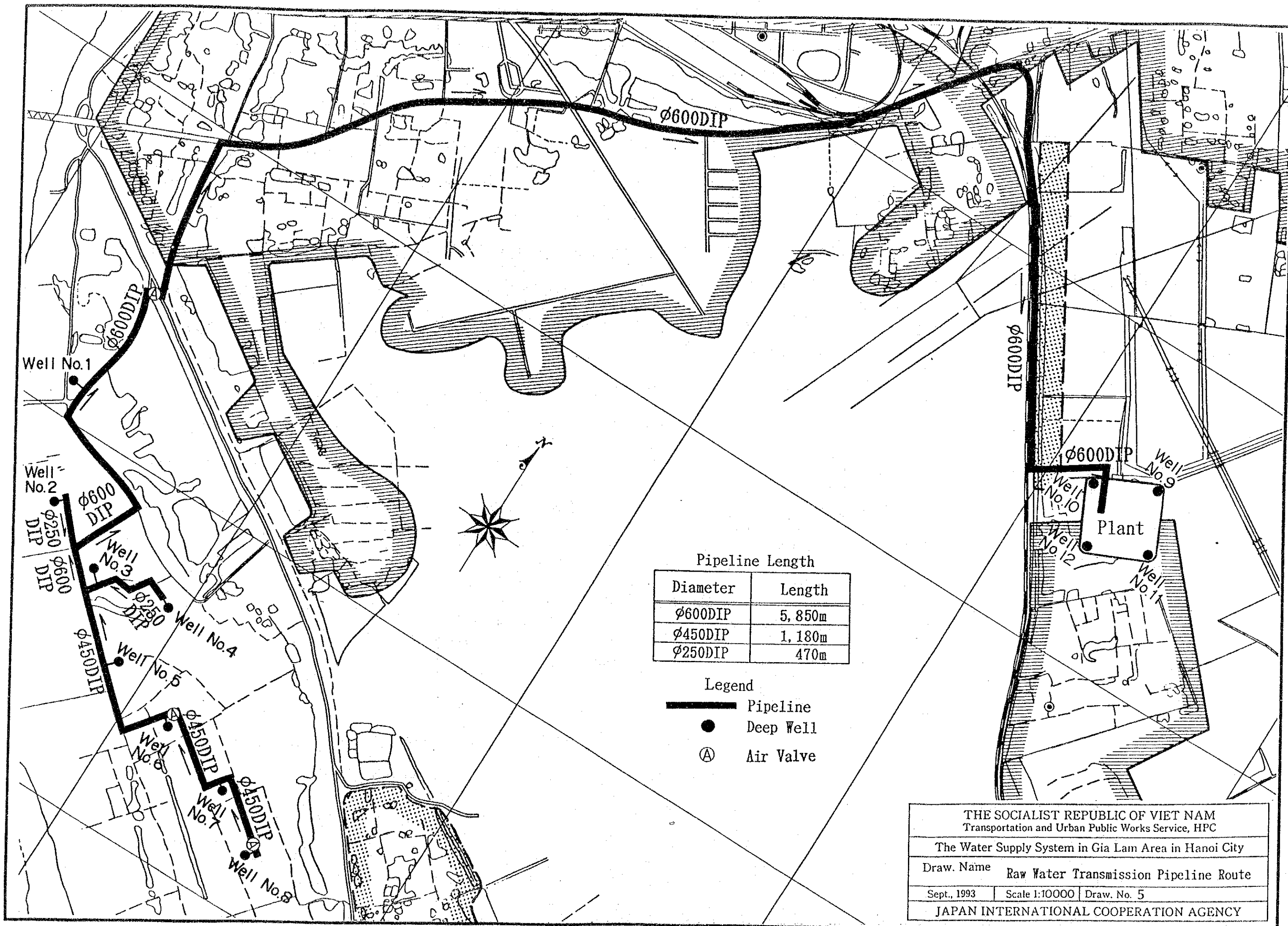


LEGEND

- ① Intake Pump Room
- ② Stairs
- ③ Ladder
- ④ Control Panel
- ⑤ Machine Lifter
- ⑥ Well Casing Pipe
- ⑦ Sanded Bituminous Felt
- ⑧ Machine Hatch
- ⑨ ϕ 150 90° Bend Pipe
- ⑩ ϕ 150 Check Valve
- ⑪ ϕ 150 Flexible Tube
- ⑫ ϕ 150 Gate Valve
- ⑬ ϕ 150 Flow Meter
- (A) Brick + Plaster + Emulsion Paint
- (B) Steel Double Swinging Doors
- (C) Aluminum Horizontal Sliding Window (with grill)
- (D) Steel Handrail

Location	At the Riverside	In the Institution
Type	High Floor Type	Plain Floor Type
Floor Level	EL + 14000	EL + 6100
Number	8	4
Total = 12		




THE SOCIALIST REPUBLIC OF VIET NAM Transportation and Urban Public Works Service, HPC		
The Water Supply System in Gia Lam Area in Hanoi City		
Draw. Name	Intake Well House	
Sept. 1993	Scale 1/100	Draw No. 4
JAPAN INTERNATIONAL COOPERATION AGENCY		



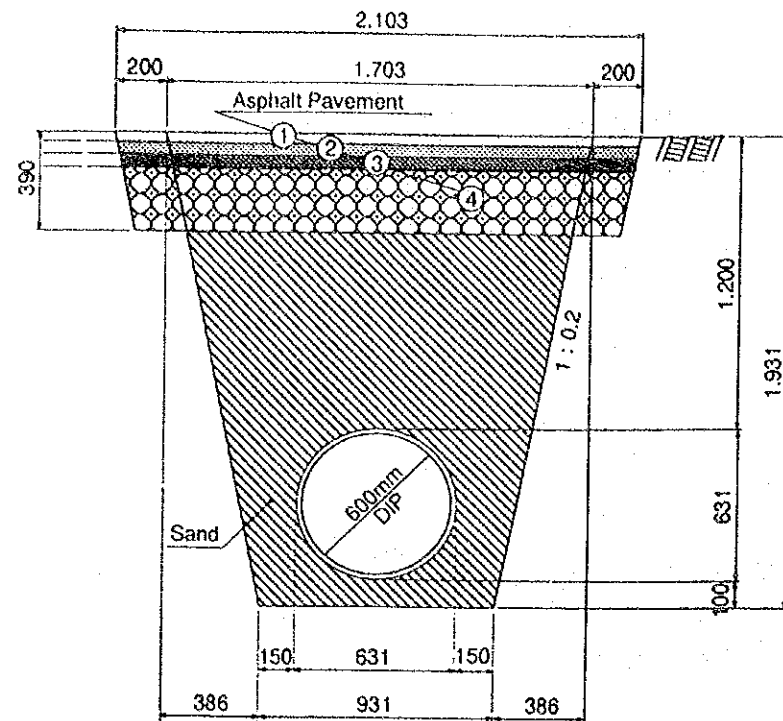
Pipeline Length

Diameter	Length
ø600DIP	5,850m
ø450DIP	1,180m
ø250DIP	470m

Legend

-  Pipeline
-  Deep Well
-  Air Valve

THE SOCIALIST REPUBLIC OF VIET NAM		
Transportation and Urban Public Works Service, HPC		
The Water Supply System in Gia Lam Area in Hanoi City		
Draw. Name	Raw Water Transmission Pipeline Route	
Sept., 1993	Scale 1:10000	Draw. No. 5
JAPAN INTERNATIONAL COOPERATION AGENCY		



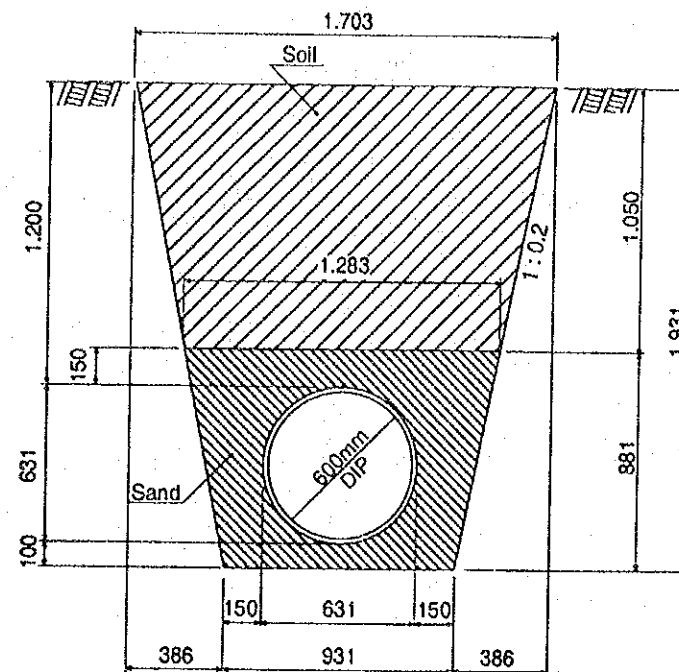
600 mm DIP
(Pavement Road)

Work Item and Volume

Excavation	2.70 m ³ /m
Sand Backfill	1.60 m ³ /m
Disposal	2.70 m ³ /m

Restoration of Asphalt Pavement

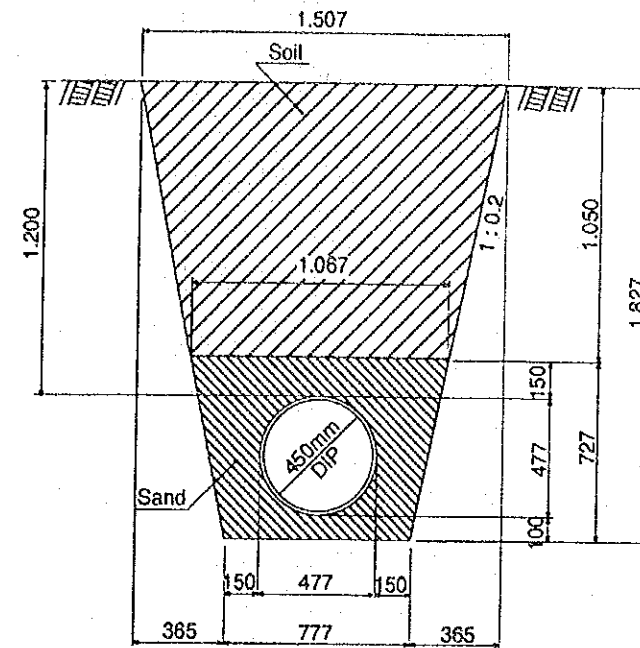
① Asphalt Concrete Surface Course (t=40mm)	0.084 m ³ /m
② Asphalt Treated Base Course (t=50mm)	0.105 m ³ /m
③ Asphalt Treated Base Leveling (t=50mm)	0.105 m ³ /m
④ Crushed Stone or Aggregate (t=250mm)	0.499 m ³ /m



600 mm DIP
(Field)

Work Item and Volume

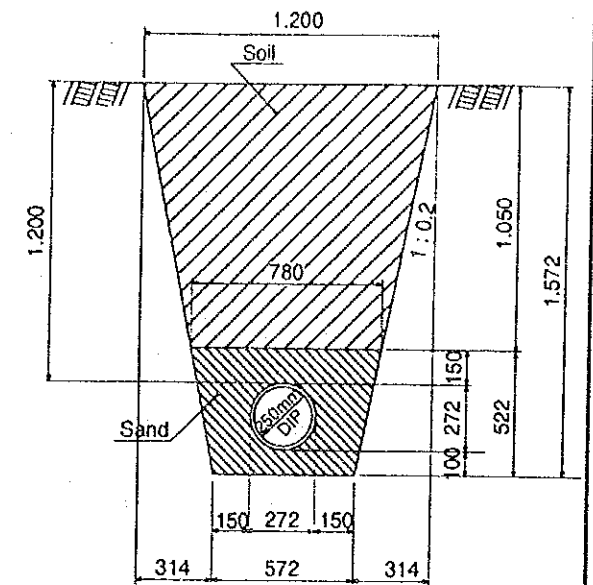
Excavation	2.54 m ³ /m
Sand Backfill	0.66 m ³ /m
Soil Backfill	1.57 m ³ /m
Soil Disposal	0.98 m ³ /m



450 mm DIP
(Field)

Work Item and Volume

Excavation	2.09 m ³ /m
Sand Backfill	0.49 m ³ /m
Soil Backfill	1.35 m ³ /m
Soil Disposal	0.67 m ³ /m

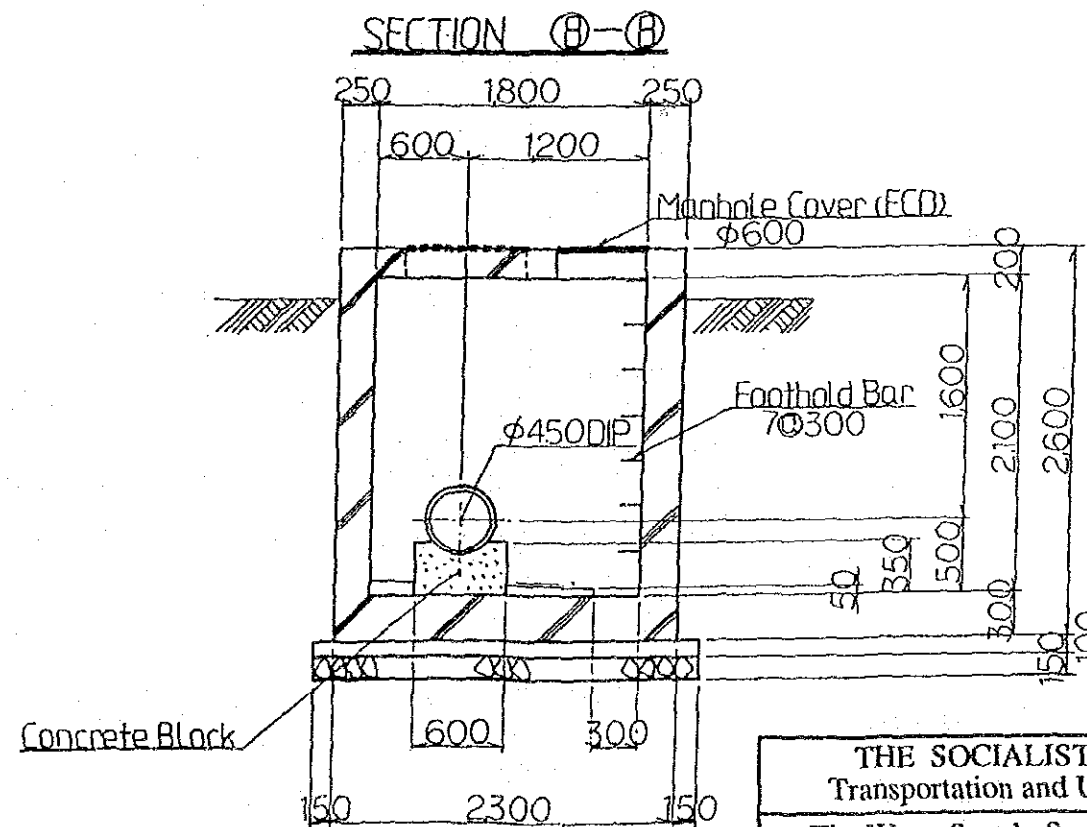
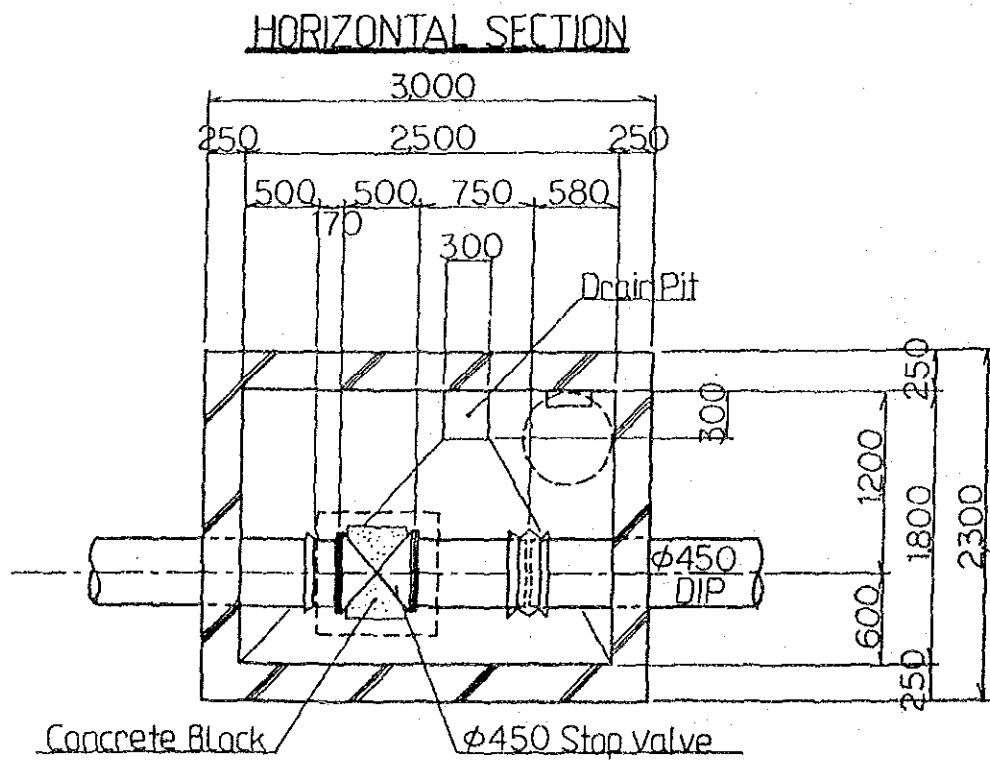
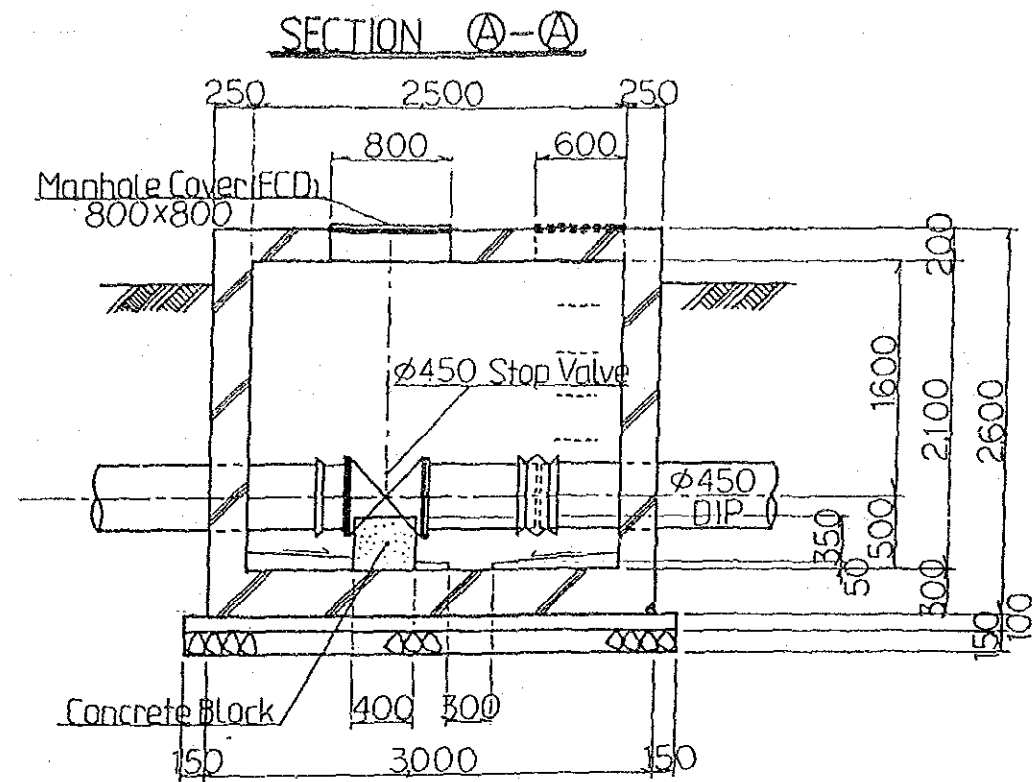
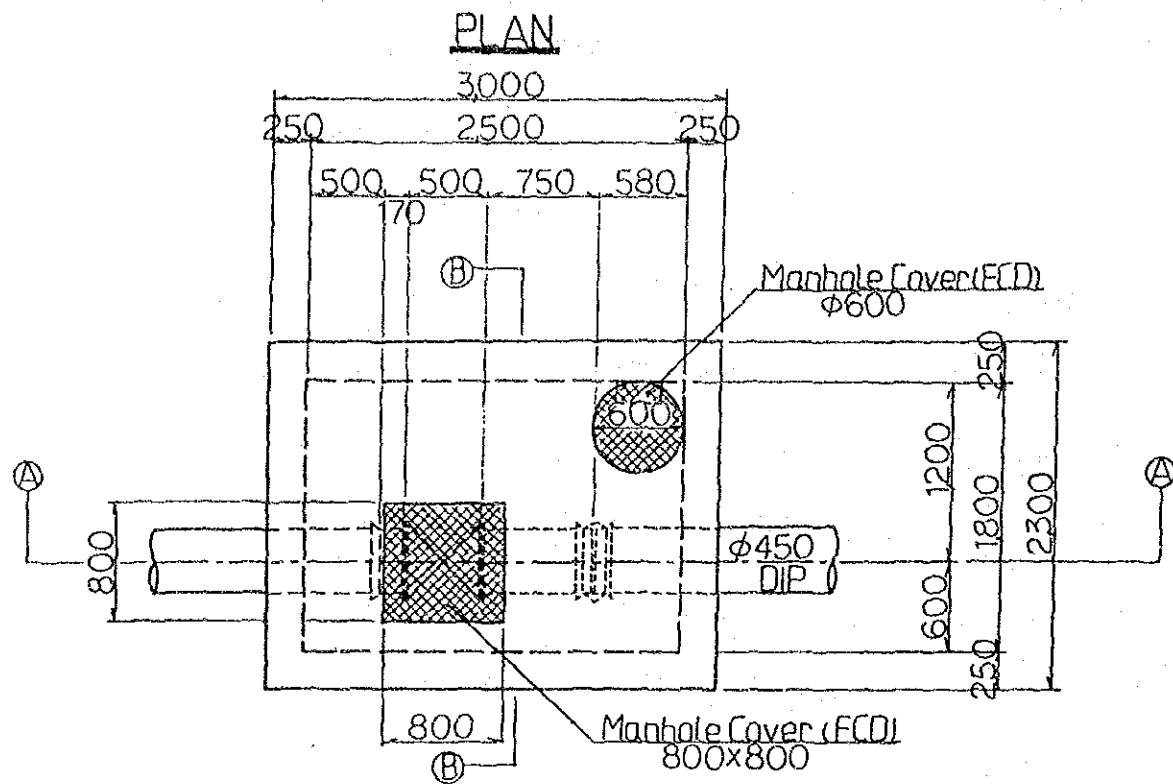


250 mm DIP
(Field)

Work Item and Volume

Excavation	1.39 m ³ /m
Sand Backfill	0.29 m ³ /m
Soil Backfill	1.04 m ³ /m
Soil Disposal	0.35 m ³ /m

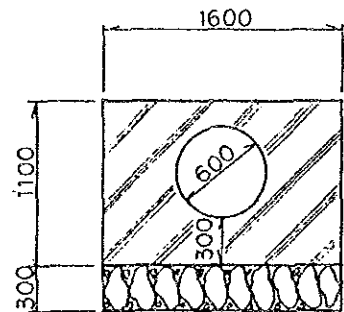
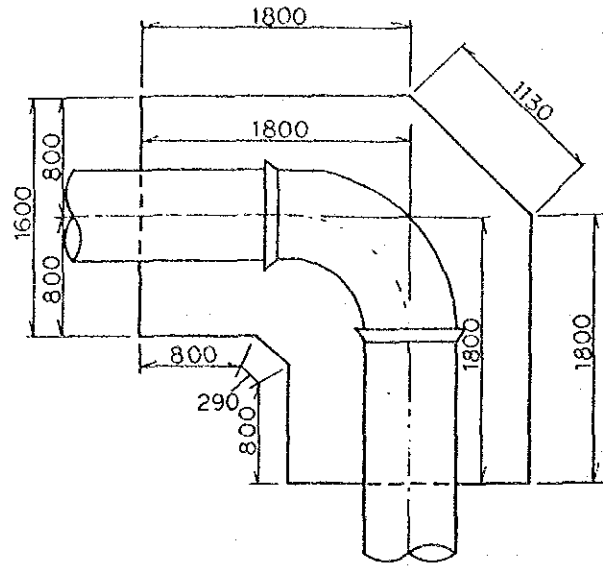
THE SOCIALIST REPUBLIC OF VIET NAM Transportation and Urban Public Works Service, HPC			
The Water Supply System in Gia Lam Area in Hanoi City			
Draw. Name	Trench Work Standard of Raw Water Transmission Pipeline		
Sept. 1993	Scale	Draw No.	6
JAPAN INTERNATIONAL COOPERATION AGENCY			



THE SOCIALIST REPUBLIC OF VIET NAM			
Transportation and Urban Public Works Service, HPC			
The Water Supply System in Gia Lam Area in Hanoi City			
Draw. Name	Valve Box for Raw Water Transmission Pipeline		
Sept. 1993	Scale	1/50	Draw No. 7
JAPAN INTERNATIONAL COOPERATION AGENCY			

ø600x90° Bend

Nos. of Place : 4

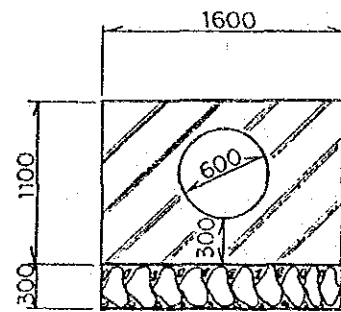
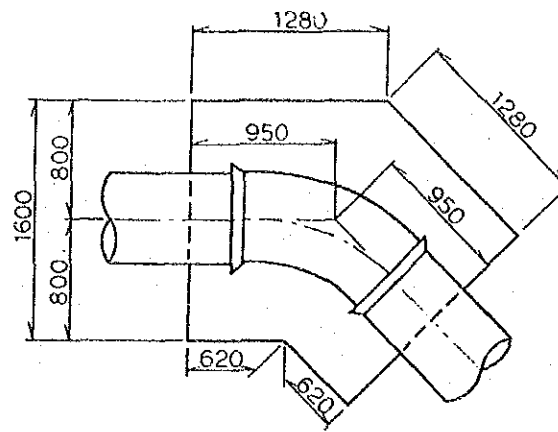


Material per Unit

Concrete	4.79 (m3)
Form Work	10.18 (m2)
Foundation Stone	1.59 (m3)

ø600x45° Bend

Nos. of Place : 21+8=29

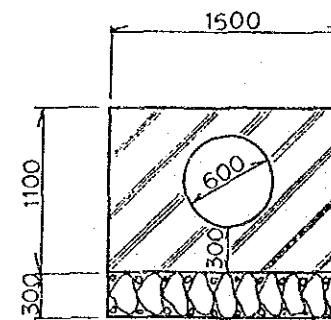
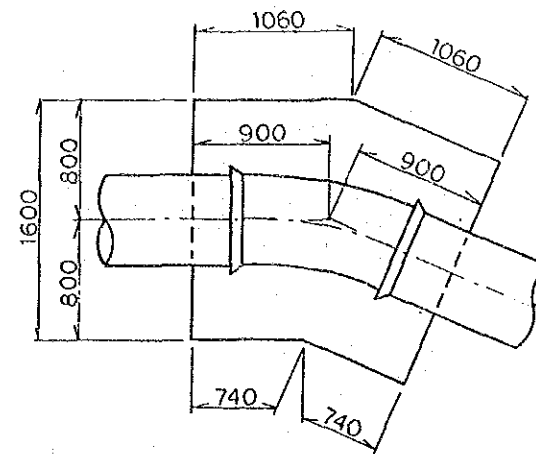


Material per Unit

Concrete	2.75 (m3)
Form Work	7.07 (m2)
Foundation Stone	0.91 (m3)

ø600x22° 1/2 Bend

Nos. of Place : 12+4=16

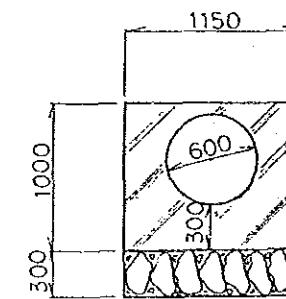
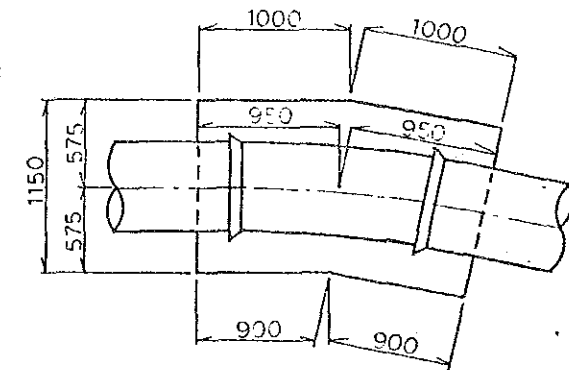


Material per Unit

Concrete	2.61 (m3)
Form Work	6.85 (m2)
Foundation Stone	0.86 (m3)

ø600x11° 1/4 Bend

Nos. of Place : 6+4=10



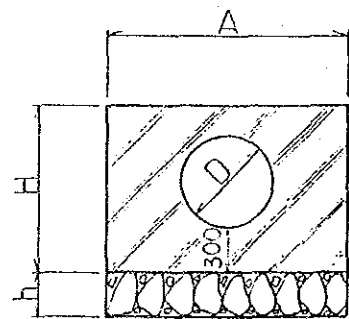
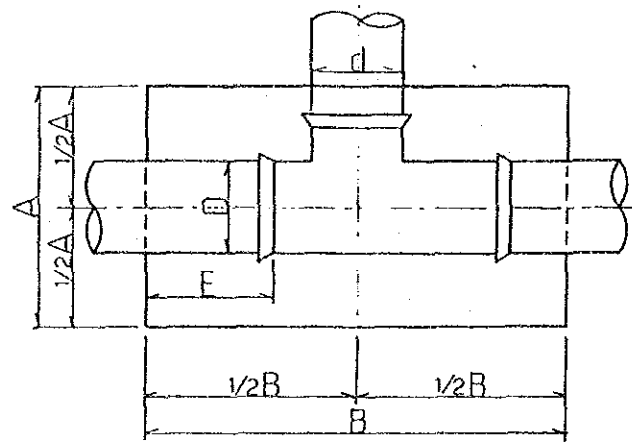
Material per Unit

Concrete	1.59 (m3)
Form Work	5.47 (m2)
Foundation Stone	0.66 (m3)

THE SOCIALIST REPUBLIC OF VIET NAM Transportation and Urban Public Works Service, HPC		
The Water Supply System in Gia Lam Area in Hanoi City		
Draw. Name	Raw Water Transmission Pipeline Concrete Works for Bends & Tees (1)	
Sept. 1993	Scale	Draw No. 8
JAPAN INTERNATIONAL COOPERATION AGENCY		

Tee

Nos. of Place
 ø600 x ø600 : 1
 ø600 x ø400 : 2
 ø450 x ø300 : 4
 ø400 x ø300 : 1
 ø250 x ø250 : 1

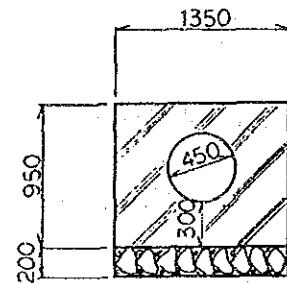
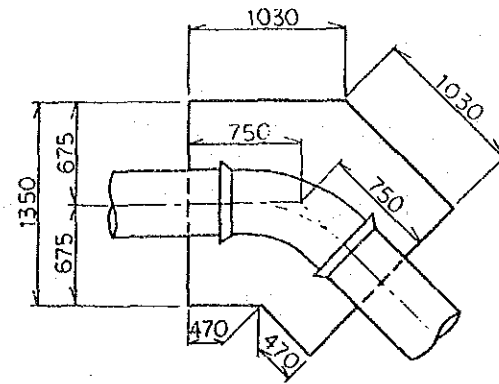


Dimension / Material per Unit

D x d	Dimension (mm)					Material		
	A	B	E	H	h	Concrete (m3)	Form Work (m2)	Foundation Stone (m3)
ø600xø600	1,600	2,800	850	1,100	300	3.90	8.75	1.35
ø600xø400	1,600	2,800	850	1,100	300	3.98	8.92	1.35
ø450xø300	1,350	2,100	610	950	200	2.28	6.12	0.57
ø400xø300	1,300	1,800	490	900	200	1.81	5.21	0.47
ø250xø250	785	1,250	200	465	150	0.36	1.71	0.15

ø450x45° Bend

Nos. of Place : 8+4 =12

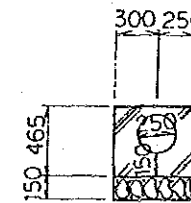
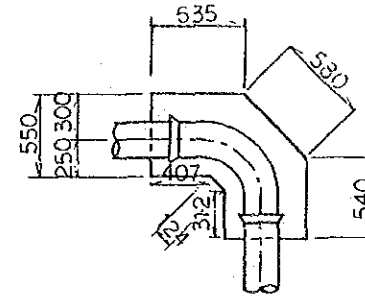


Material per Unit

Concrete	1.66 (m3)
Form Work	5.06 (m2)
Foundation Stone	0.41 (m3)

ø250x90° Bend

Nos. of Place : 16

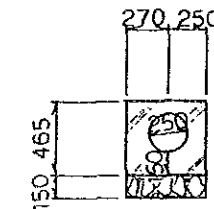
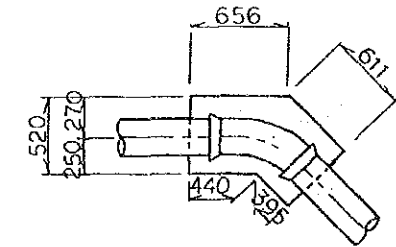


Material per Unit

Concrete	0.26 (m3)
Form Work	1.60 (m2)
Foundation Stone	0.11 (m3)

ø250x45° Bend

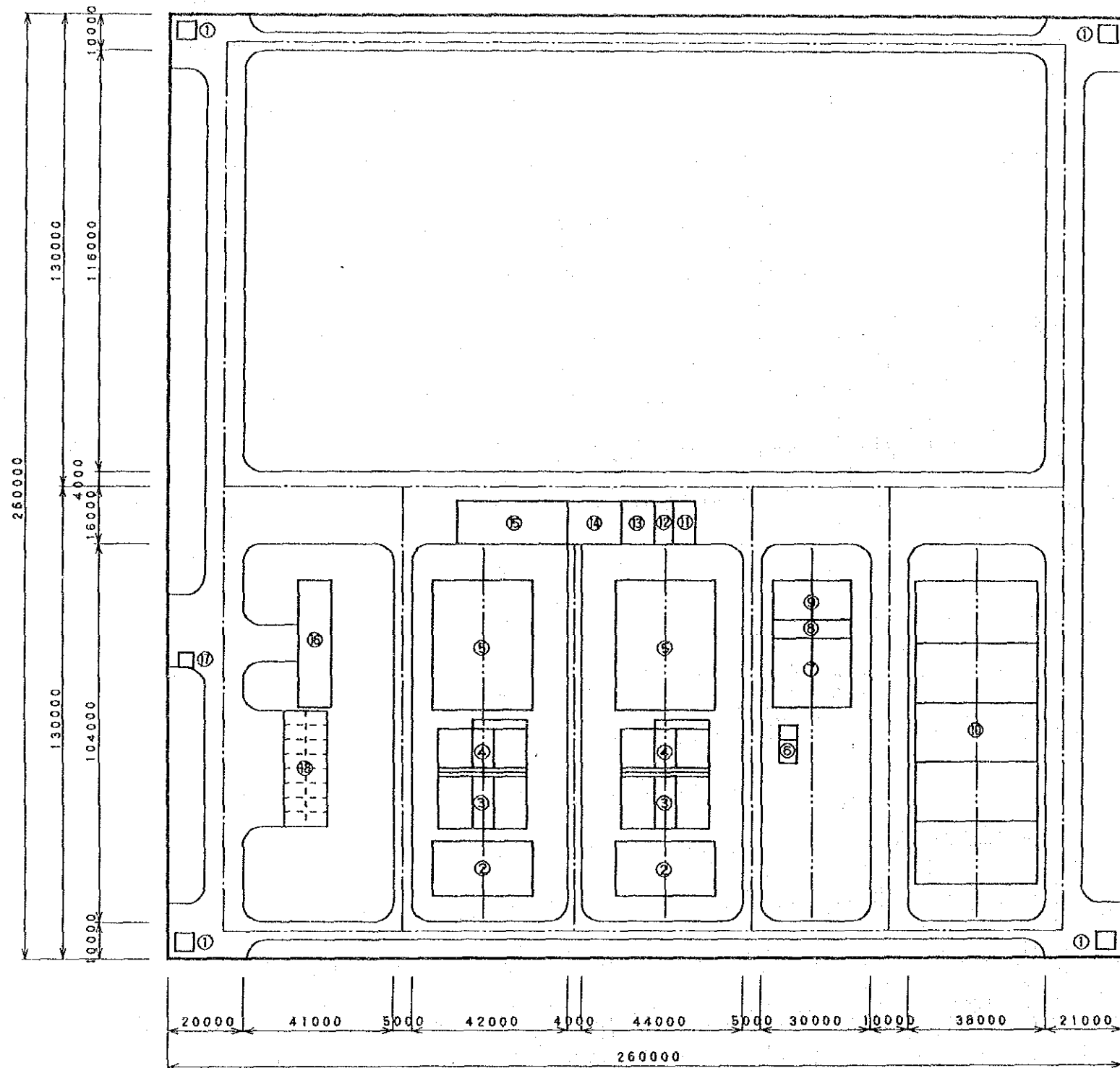
Nos. of Place : 1



Material per Unit

Concrete	0.19 (m3)
Form Work	1.34 (m2)
Foundation Stone	0.08 (m3)

THE SOCIALIST REPUBLIC OF VIET NAM
 Transportation and Urban Public Works Service, HPC
 The Water Supply System in Gia Lam Area in Hanoi City
 Draw. Name Raw Water Transmission Pipeline Concrete Works for Bends & Tees (2)
 Sept. 1993 | Scale | Draw No. 9
 JAPAN INTERNATIONAL COOPERATION AGENCY

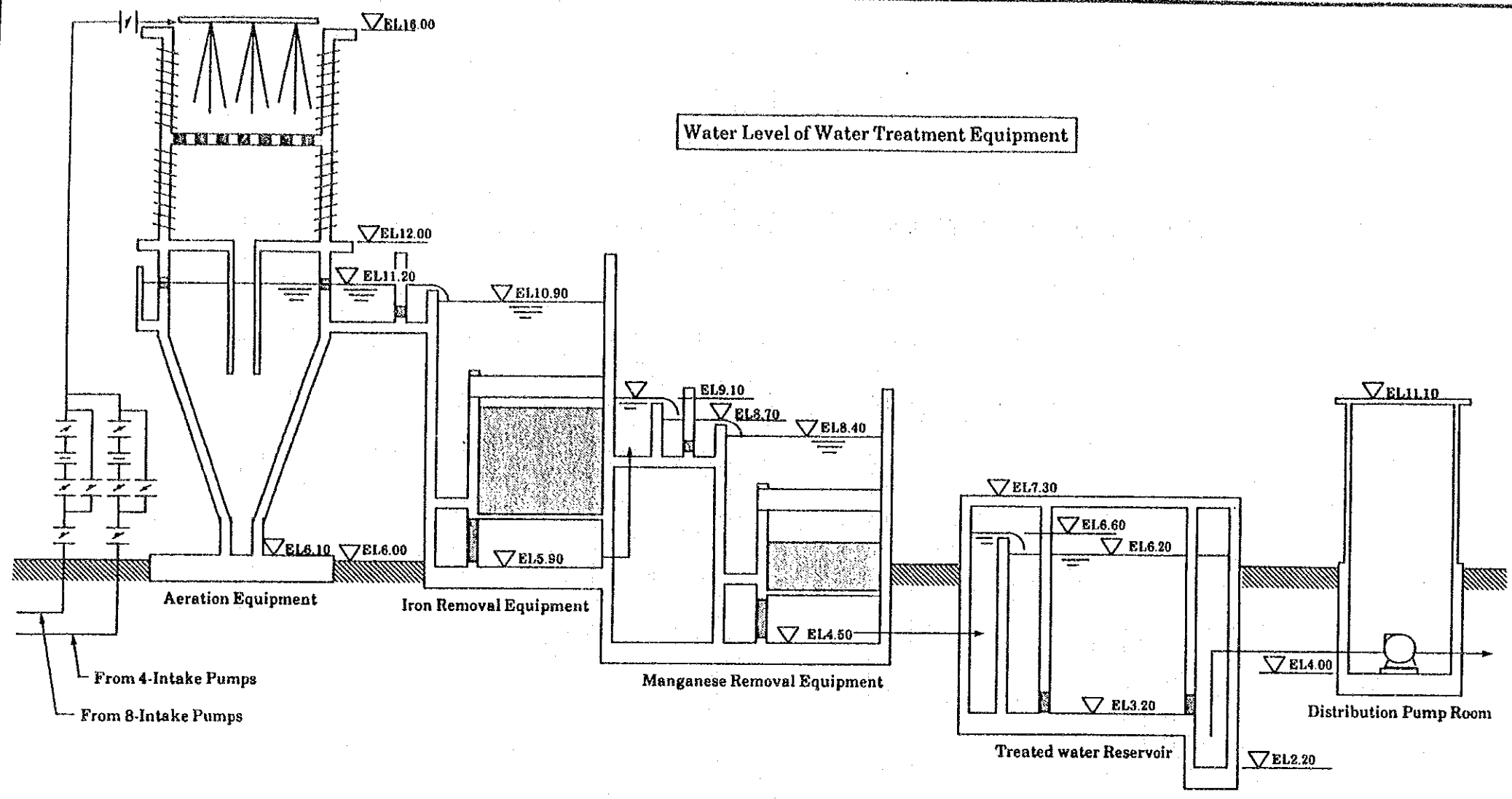


LEGEND

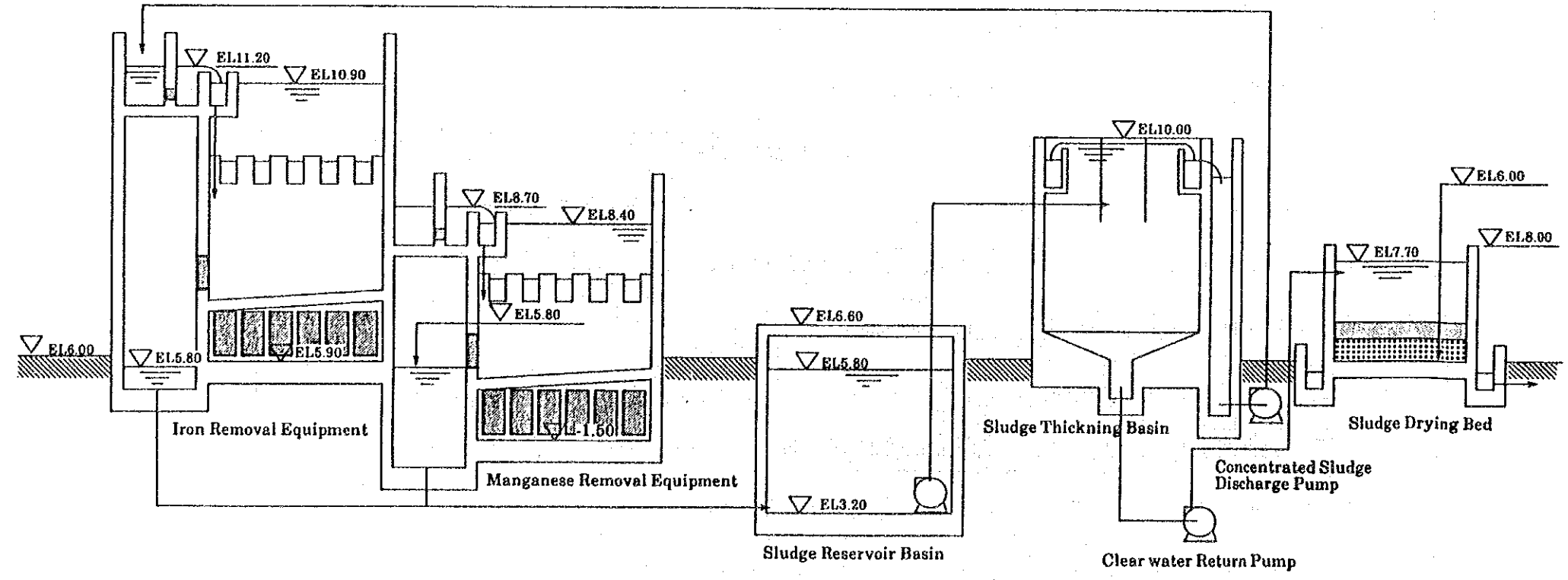
①	Intake Well House
②	Aeration and Sedimentation Equipment
③	Iron Removal Equipment
④	Manganese Removal Equipment
⑤	Reservoir Tank
⑥	Chlorination Equipment
⑦	Sludge Reservoir Basin
⑧	Sludge Treatment Room
⑨	Sludge Thichning Basin
⑩	Sludge Drying Bed
⑪	D/G Room
⑫	Transformer Room
⑬	Electrical Room
⑭	Control Room
⑮	Distribution Pump Room
⑯	Administration Building
⑰	Guard House
⑱	Parking Area

THE SOCIALIST REPUBLIC OF VIET NAM			
Transportation and Urban Public Works Service, HPC			
The Water Supply System in Gia Lam Area in Hanoi City			
Draw. Name	Layout Plan of Water Treatment Plant		
Sept. 1993	Scale	1/1,500	Draw No. 10
JAPAN INTERNATIONAL COOPERATION AGENCY			

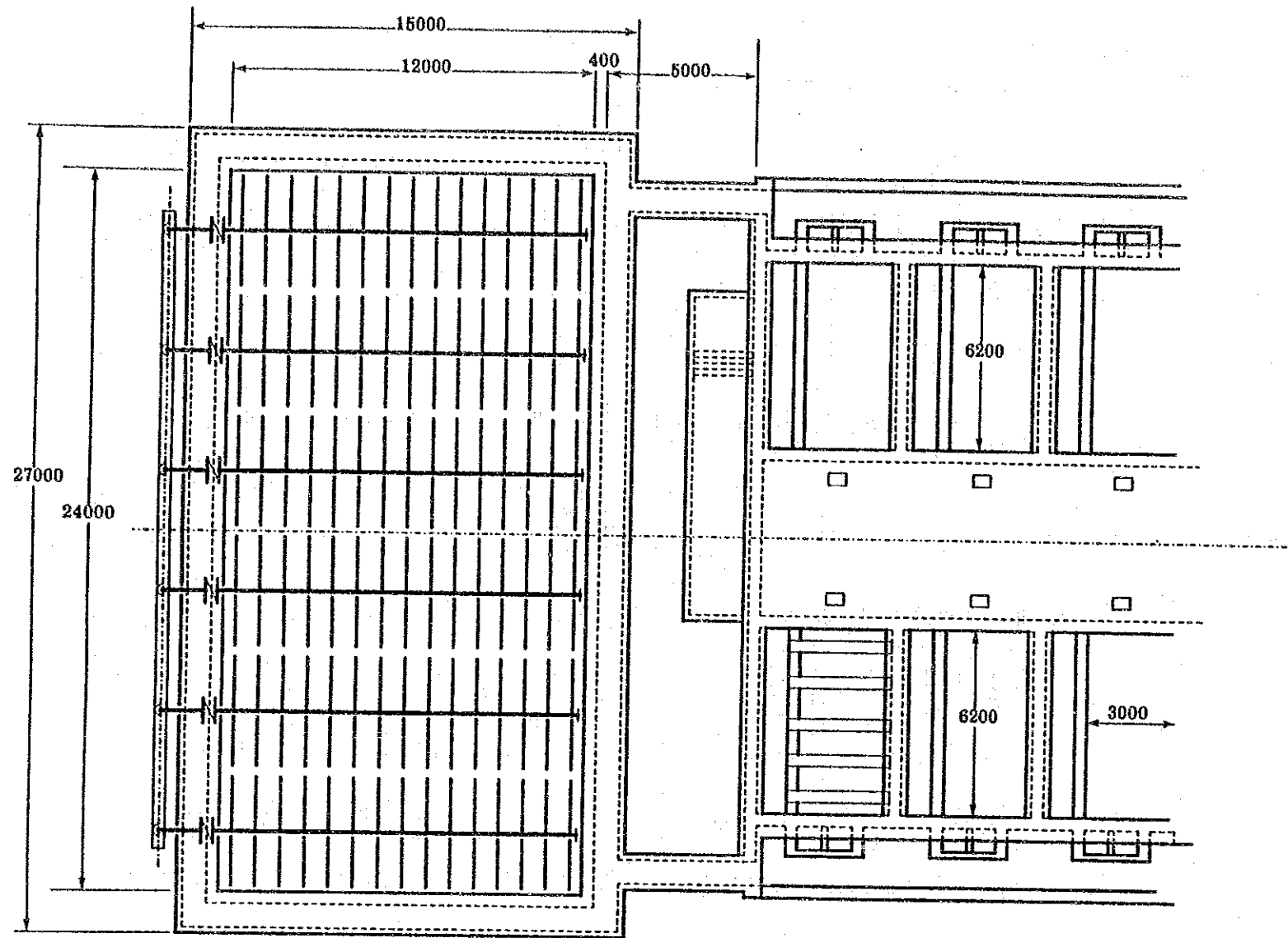
Water Level of Water Treatment Equipment



Water Level of Sludge Treatment Equipment

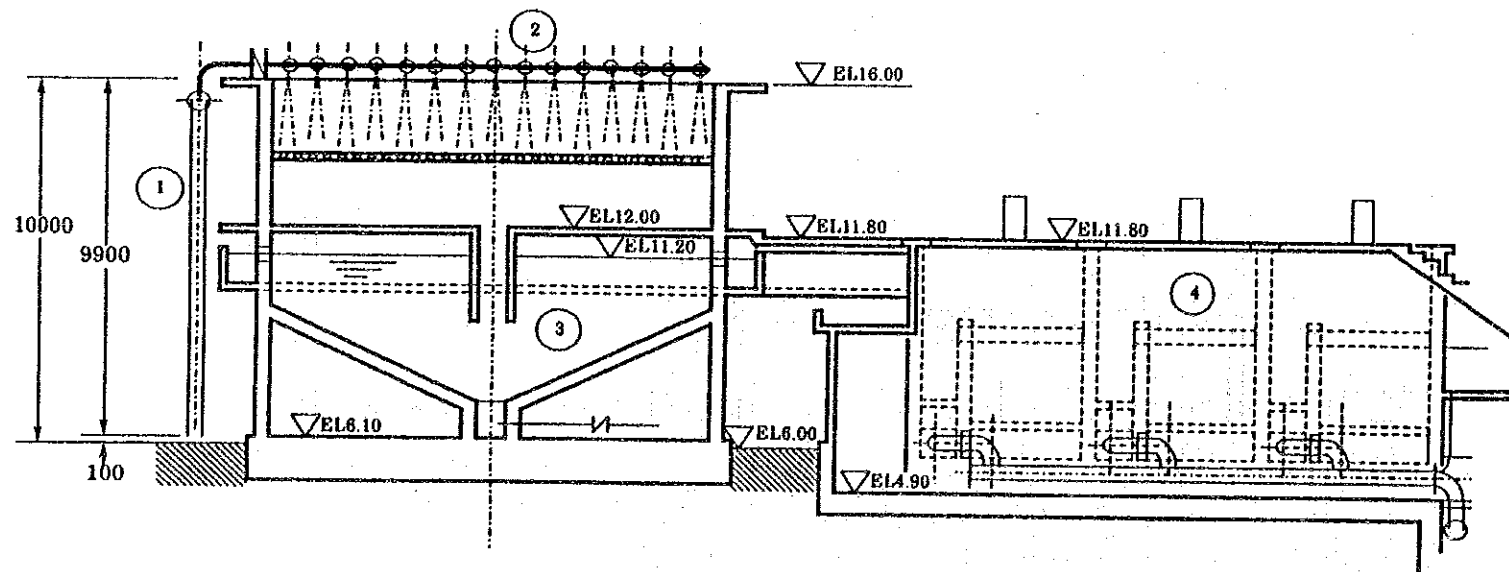


THE SOCIALIST REPUBLIC OF VIET NAM		
Transportation and Urban Public Works Service, HPC		
The Water Supply System in Gia Lam Area in Hanoi City		
Draw. Name	Hydraulic Profile of Water Treatment Plant	
Sept. 1993	Scale	Draw No. 11
JAPAN INTERNATIONAL COOPERATION AGENCY		

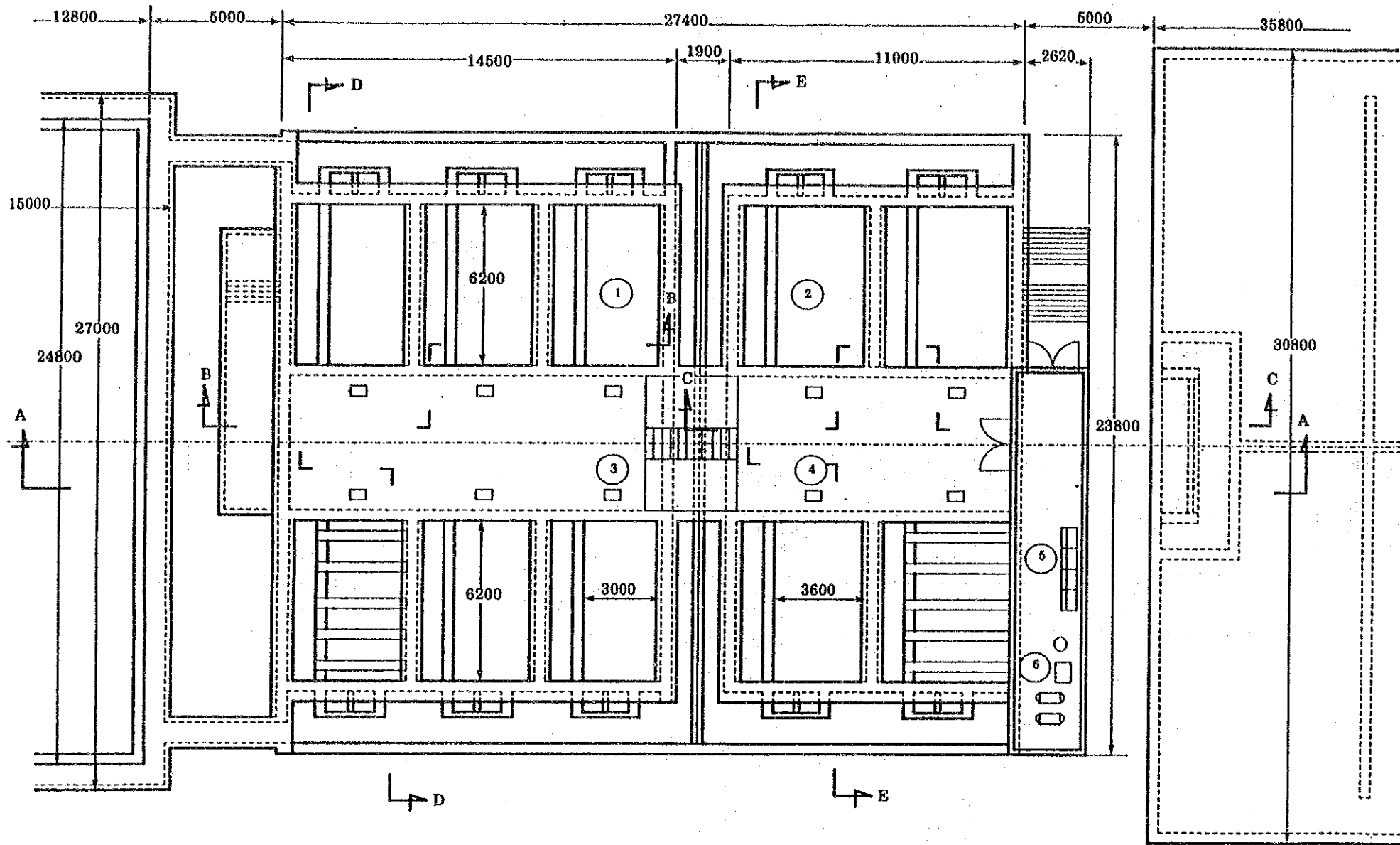


LEGEND

①	Raw Water Pipe
②	Spray Pipe
③	Hold Tank
④	Iron Removal Equipment

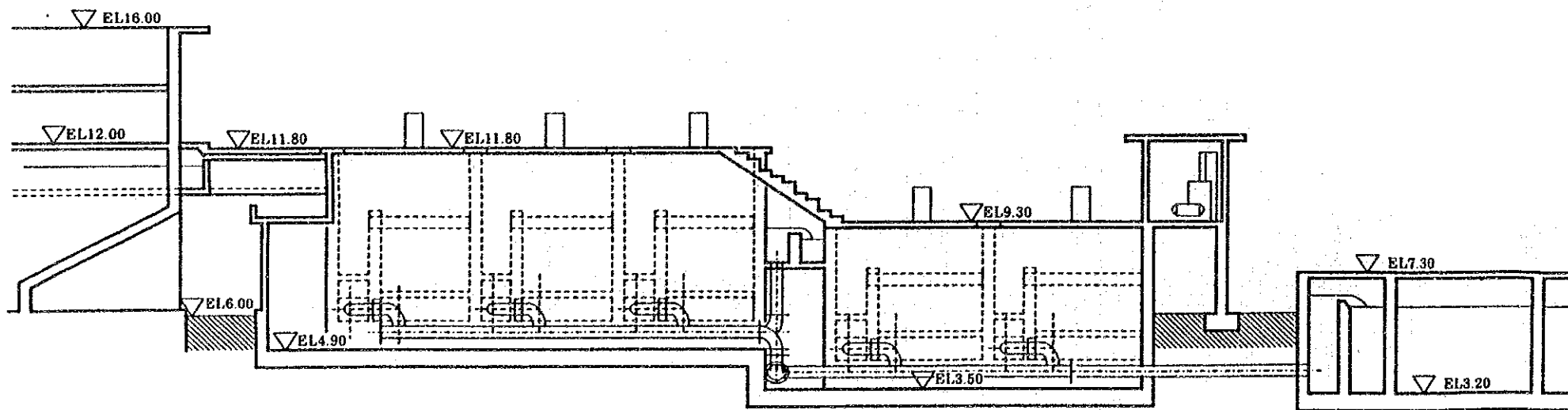


THE SOCIALIST REPUBLIC OF VIET NAM			
Transportation and Urban Public Works Service, HPC			
The Water Supply System in Gia Lam Area in Hanoi City			
Draw. Name	Aeration and Sedimentation Equipment		
Sept. 1993	Scale	1/200	Draw No. 12
JAPAN INTERNATIONAL COOPERATION AGENCY			



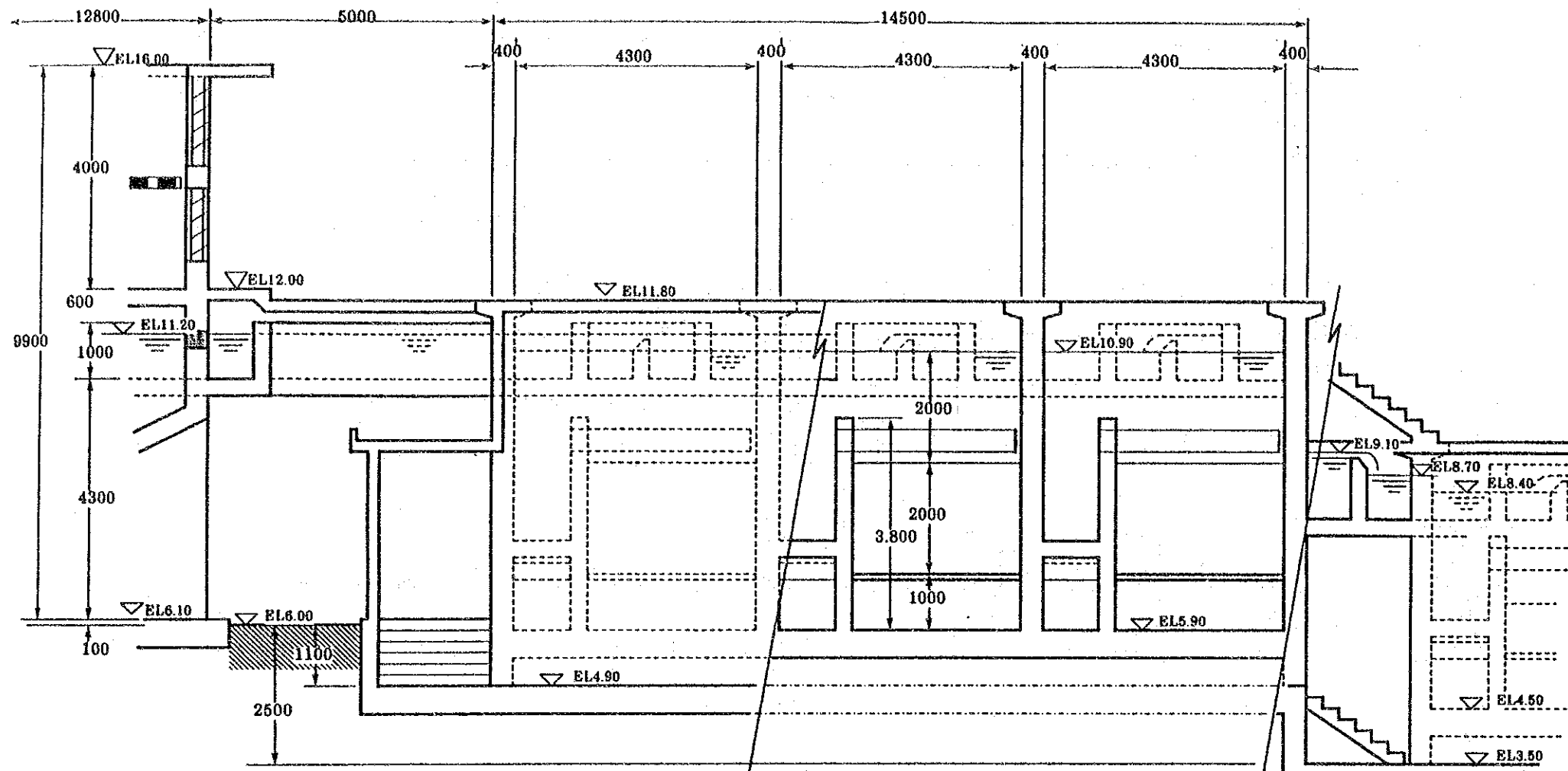
LEGEND

①	Iron Removal Equipment
②	Manganese Removal Equipment
③	Solenoid Valve Box for Iron Removal Equipment
④	Solenoid Valve Box for Manganese Removal Equipment
⑤	Control Panel for Iron and Manganese Removal Equipment
⑥	Air Source for Pneumatic Valve

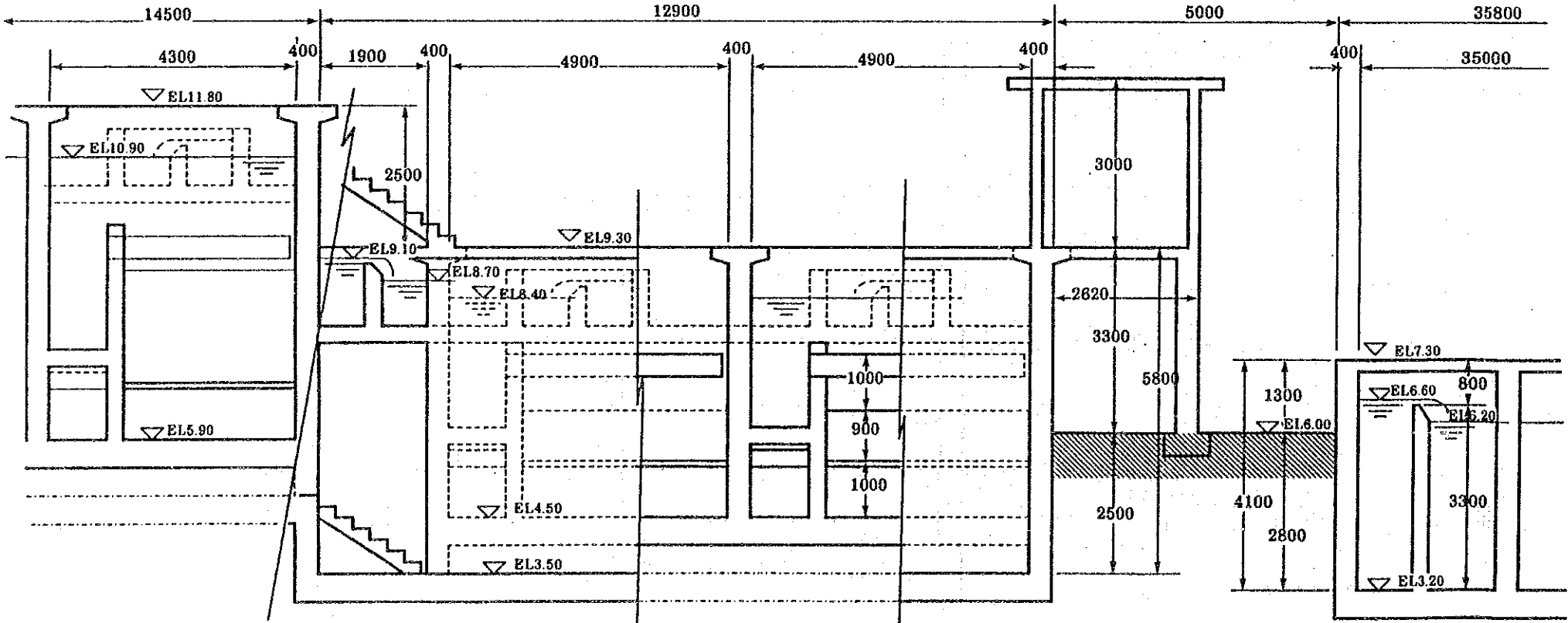


SECTION A - A

THE SOCIALIST REPUBLIC OF VIET NAM		
Transportation and Urban Public Works Service, HPC		
The Water Supply System in Gia Lam Area in Hanoi City		
Draw. Name	Iron and Manganese Removal Equipment (1)	
Sept. 1993	Scale 1/200	Draw No. 13
JAPAN INTERNATIONAL COOPERATION AGENCY		

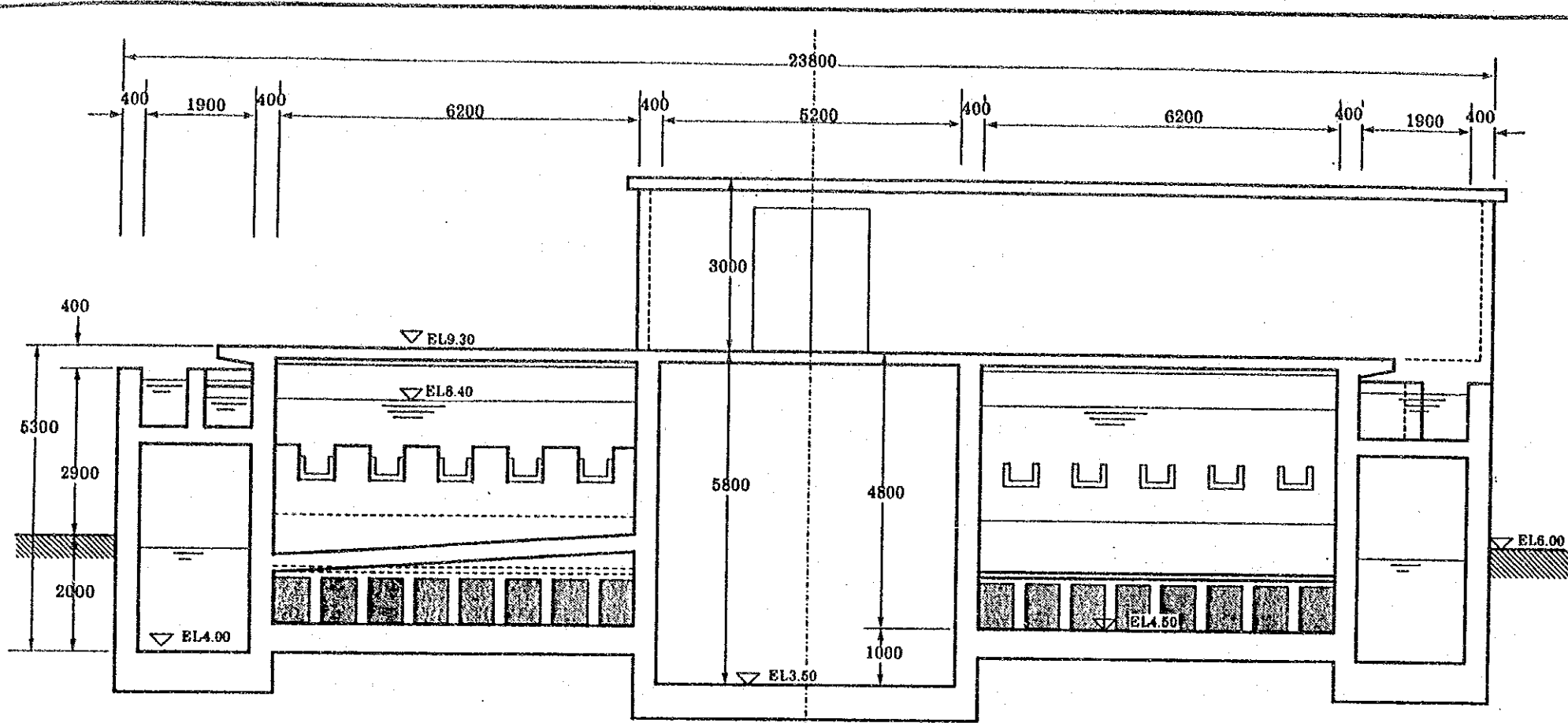


SECTION B - B

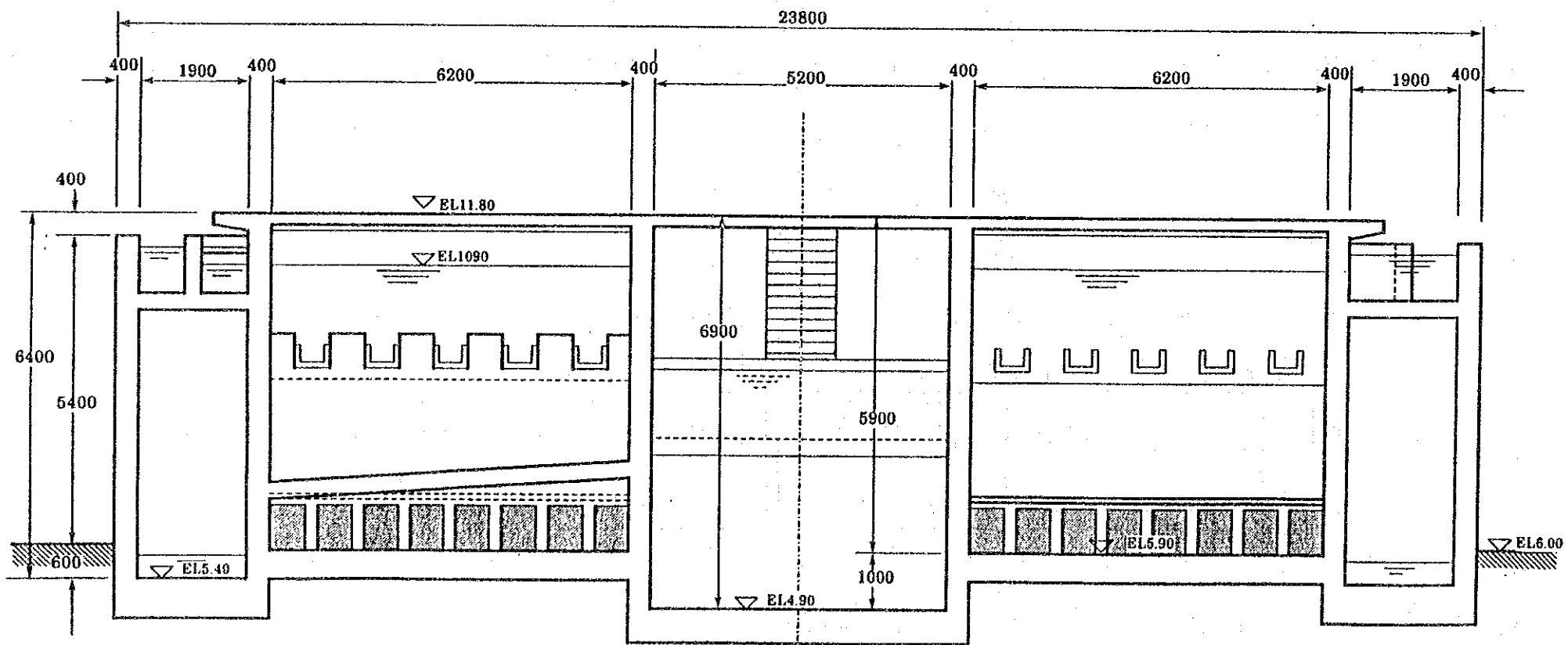


SECTION C - C

THE SOCIALIST REPUBLIC OF VIET NAM			
Transportation and Urban Public Works Service, HPC			
The Water Supply System in Gia Lam Area in Hanoi City			
Draw. Name	Iron and Manganese Removal Equipment (2)		
Sept. 1993	Scale	1/100	Draw No. 14
JAPAN INTERNATIONAL COOPERATION AGENCY			

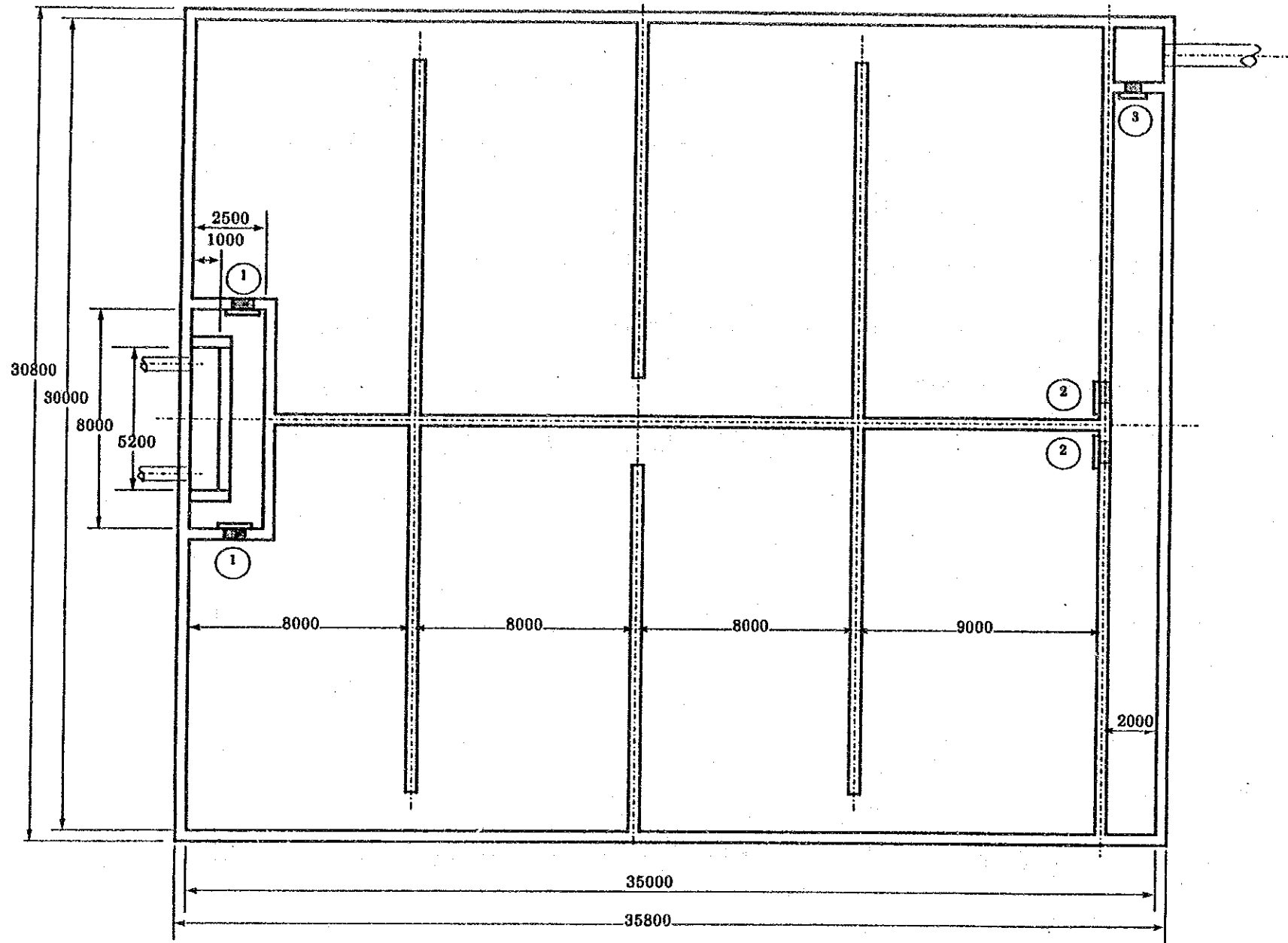


SECTION E - E



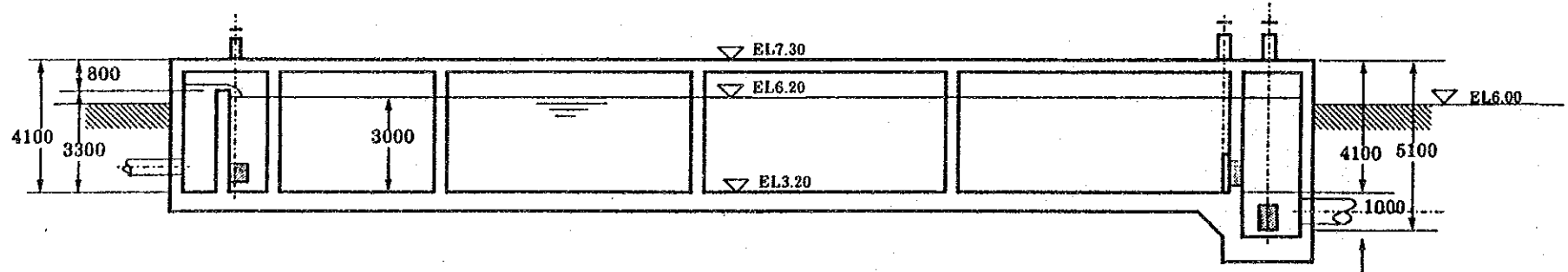
SECTION D - D

THE SOCIALIST REPUBLIC OF VIET NAM		
Transportation and Urban Public Works Service, HPC		
The Water Supply System in Gia Lam Area in Hanoi City		
Draw. Name	Iron and Manganese Removal Equipment (3)	
Sept. 1993	Scale 1/100	Draw No. 15
JAPAN INTERNATIONAL COOPERATION AGENCY		

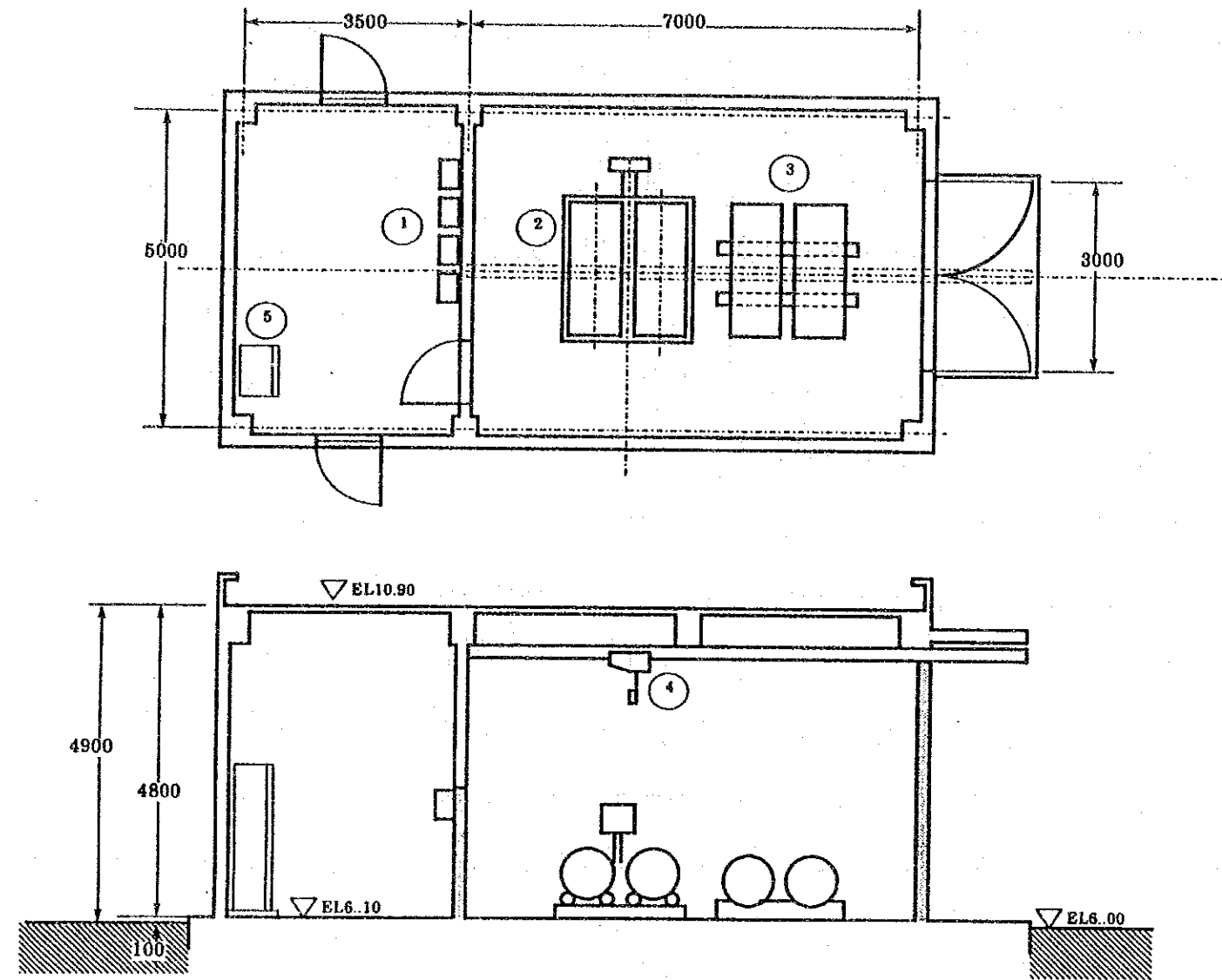


LEGEND

①	Inlet Valve
②	Outlet Valve
③	Isolating Valve



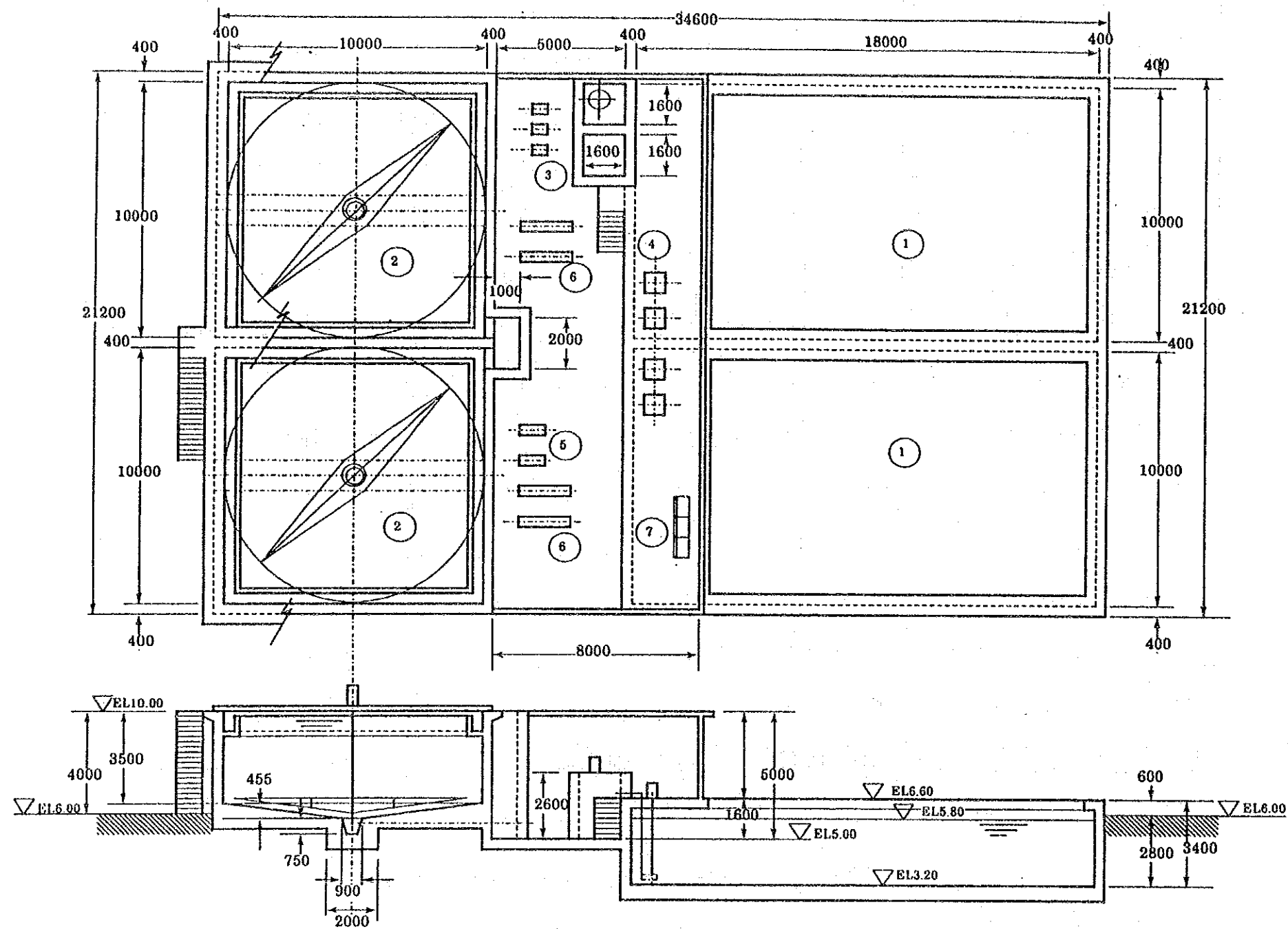
THE SOCIALIST REPUBLIC OF VIET NAM Transportation and Urban Public Works Service, HPC		
The Water Supply System in Gia Lam Area in Hanoi City		
Draw. Name	Reservoir Tank	
Sept. 1993	Scale 1/200	Draw No. 16
JAPAN INTERNATIONAL COOPERATION AGENCY		



LEGEND

①	Chlorinator
②	Chlorine Weighing Mashine
③	Chlorine Container
④	Chain Hoist
⑤	Control Panel for Chlorination Equipment

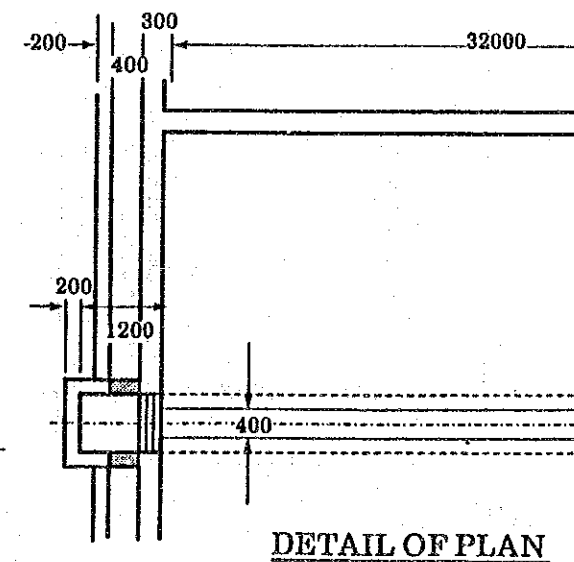
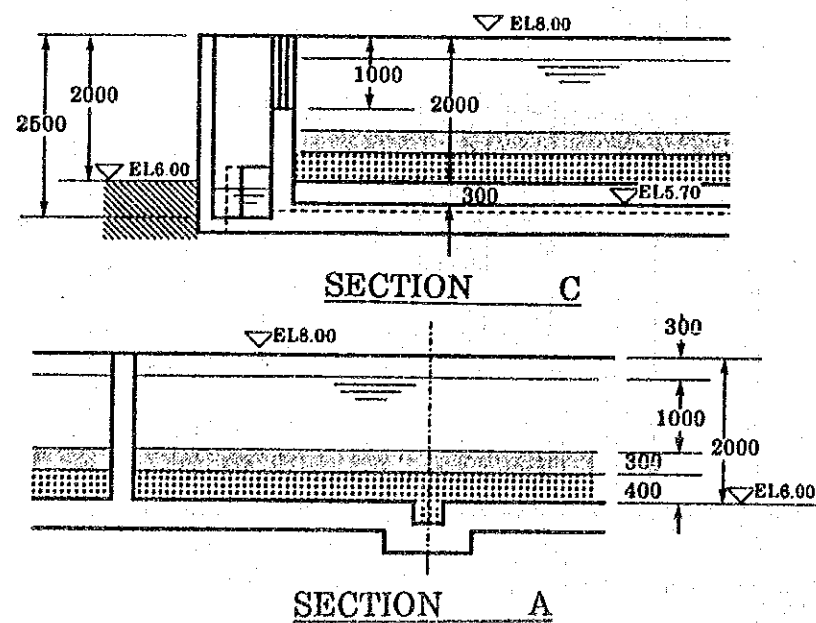
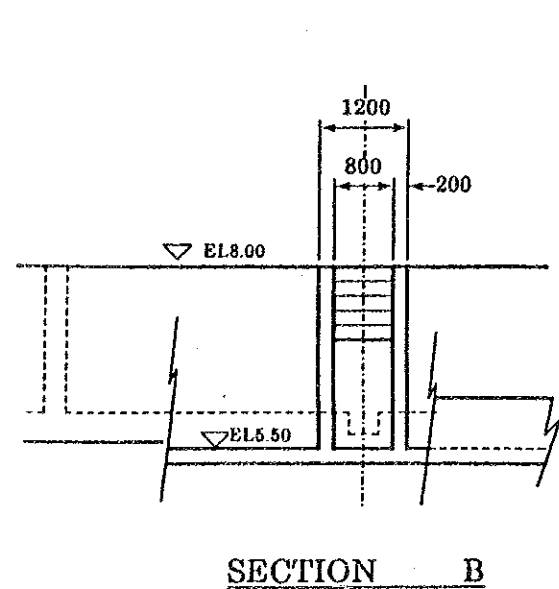
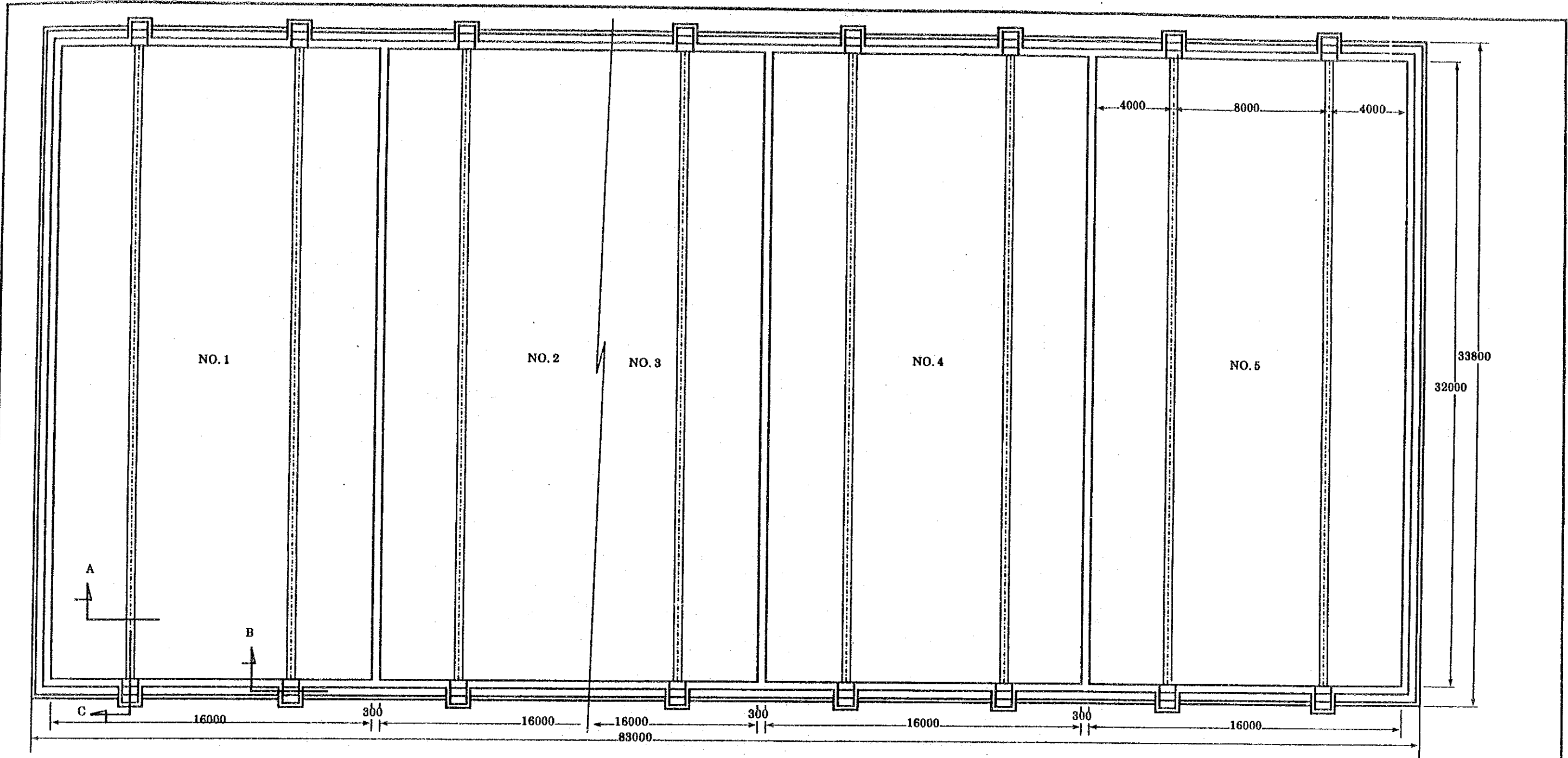
THE SOCIALIST REPUBLIC OF VIET NAM			
Transportation and Urban Public Works Service, HPC			
The Water Supply System in Gia Lam Area in Hanoi City			
Draw. Name	Chlorination Equipment		
Sept. 1993	Scale	1/100	Draw No. 17
JAPAN INTERNATIONAL COOPERATION AGENCY			



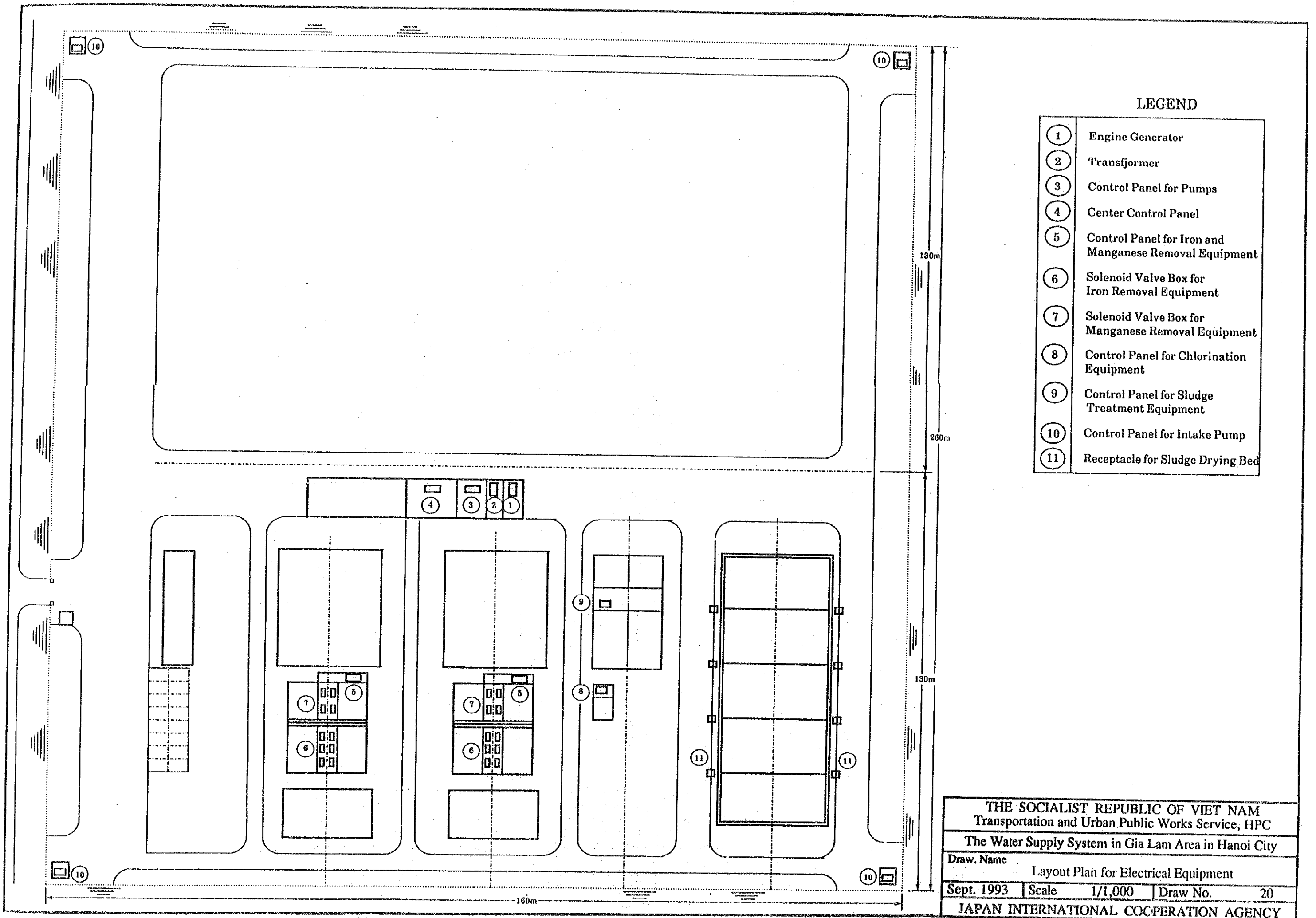
LEGEND

- | | |
|---|--|
| ① | Sludge Reservoir Basin |
| ② | Sludge Thickning Basin |
| ③ | Coagulant Dosing Equipment |
| ④ | Sludge Transfer Pump |
| ⑤ | Clear Water Return Pump |
| ⑥ | Concentrated Sludge Discharge Pump |
| ⑦ | Control Panel for Sludge Treatment Equipment |

THE SOCIALIST REPUBLIC OF VIET NAM			
Transportation and Urban Public Works Service, HPC			
The Water Supply System in Gia Lam Area in Hanoi City			
Draw. Name	Sludge Treatment Equipment		
Sept. 1993	Scale	1/200	Draw No. 18
JAPAN INTERNATIONAL COOPERATION AGENCY			



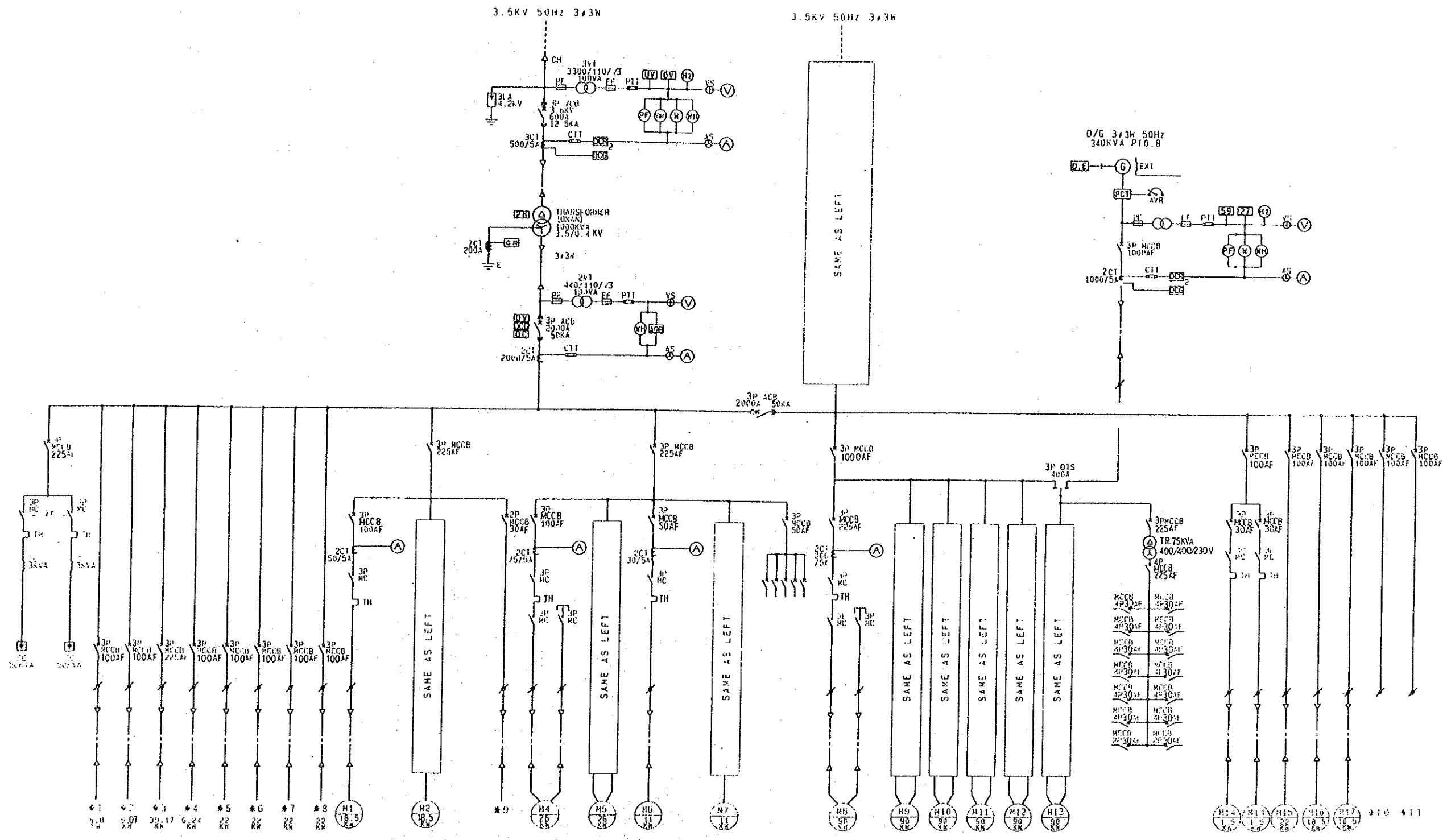
THE SOCIALIST REPUBLIC OF VIET NAM		
Transportation and Urban Public Works Service, HPC		
The Water Supply System in Gia Lam Area in Hanoi City		
Draw. Name	Sludge Drying Bed	
Sept. 1993	Scale 1/200	Draw No. 19
JAPAN INTERNATIONAL COOPERATION AGENCY		



LEGEND

- ① Engine Generator
- ② Transformer
- ③ Control Panel for Pumps
- ④ Center Control Panel
- ⑤ Control Panel for Iron and Manganese Removal Equipment
- ⑥ Solenoid Valve Box for Iron Removal Equipment
- ⑦ Solenoid Valve Box for Manganese Removal Equipment
- ⑧ Control Panel for Chlorination Equipment
- ⑨ Control Panel for Sludge Treatment Equipment
- ⑩ Control Panel for Intake Pump
- ⑪ Receptacle for Sludge Drying Bed

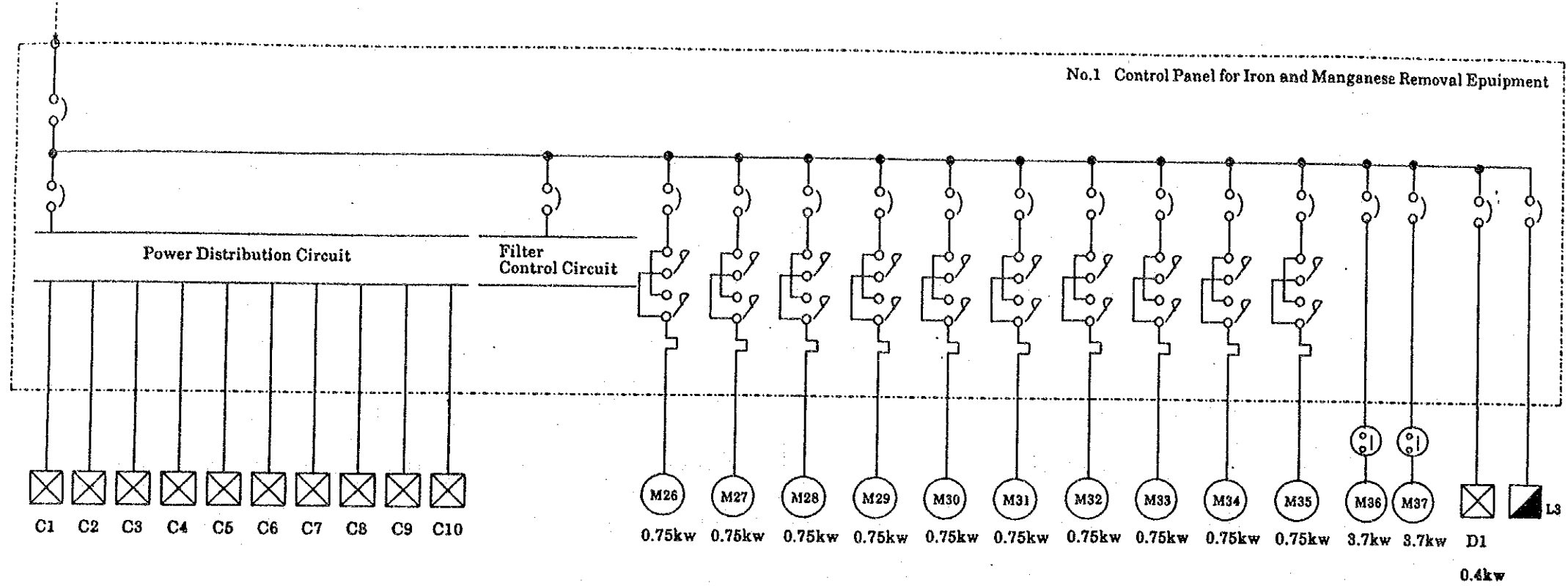
THE SOCIALIST REPUBLIC OF VIET NAM Transportation and Urban Public Works Service, HPC		
The Water Supply System in Gia Lam Area in Hanoi City		
Draw. Name	Layout Plan for Electrical Equipment	
Sept. 1993	Scale 1/1,000	Draw No. 20
JAPAN INTERNATIONAL COOPERATION AGENCY		



- Legend**
- | | |
|------------------------------|--------------------------|
| 1 Sludge Drying Bed | M1-2 Back Wash Pump |
| 2 Filtration Equipment | M4-5 Wash Blower |
| 3 Sludge Treatment Equipment | M6-7 Aeration Blower |
| 4 Chlorination Equipment | M8-13 Distribution Pump |
| 5-8 Intake Pump | M14 Pump Room Drain Pump |
| 9 Control source | M15 Travelling Crane |
| 10 Spare | M16 Air Conditioner |
| 11 Spare | M17 Ventiration |

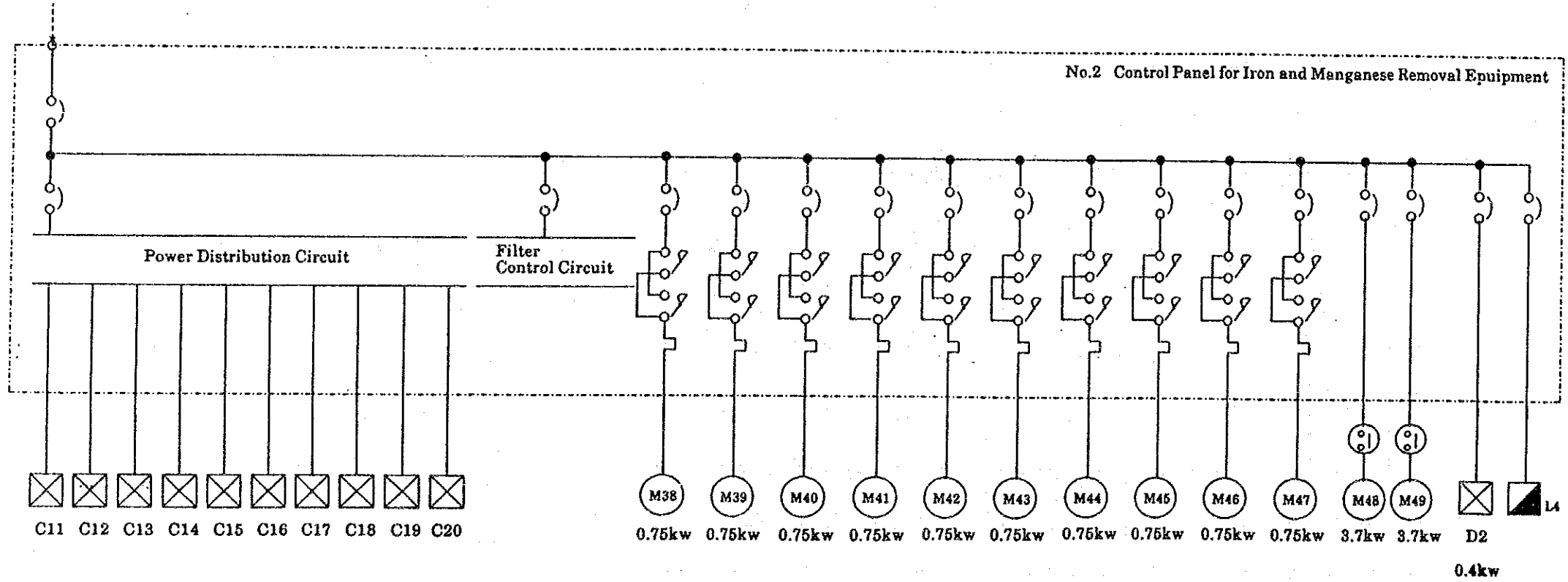
THE SOCIALIST REPUBLIC OF VIET NAM		
Transportation and Urban Public Works Service, HPC		
The Water Supply System in Gia Lam Area in Hanoi City		
Draw. Name	Electric Single Diagram of Water Treatment Plant	
Sept. 1993	Scale	Draw No. 21
JAPAN INTERNATIONAL COOPERATION AGENCY		

3φ 3w 380V/220V 50Hz



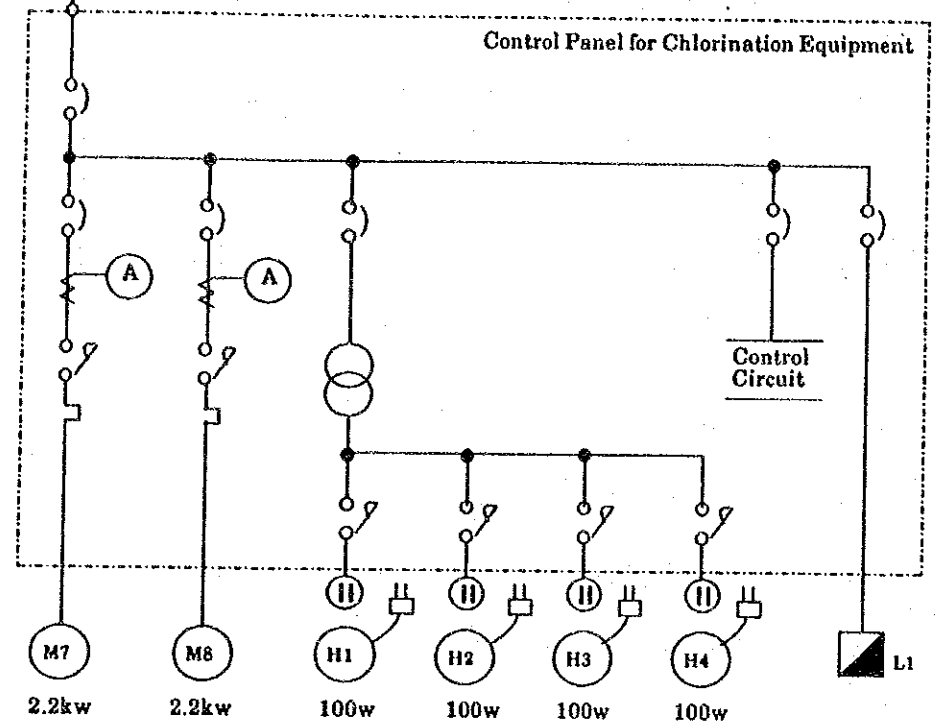
LEGEND	
C1-C10	No.1 Solenoid Valve Boxes for Iron and Manganese Removal Equipment
C11-C20	No.2 Solenoid Valve Boxes for Iron and Manganese Removal Equipment
M26-M35	No.1 Waste water Valves of Iron and Manganese Removal Equipment
M38-M47	No.2 Waste water Valves of Iron and Manganese Removal Equipment
M36,M37	No.1 Air Compressors
M48-M49	No.2 Air Compressors
D1	No.1 Air Drier
D1	No.2 Air Drier
L3	No.1 Lighting Panel
L4	No.2 Lighting Panel

3φ 3w 380V/220V 50Hz



THE SOCIALIST REPUBLIC OF VIET NAM Transportation and Urban Public Works Service, HPC		
The Water Supply System in Gia Lam Area in Hanoi City		
Draw. Name - Electric Single Diagram of Water Treatment Plant (1)		
Sept. 1993	Scale	Draw No. 22
JAPAN INTERNATIONAL COOPERATION AGENCY		

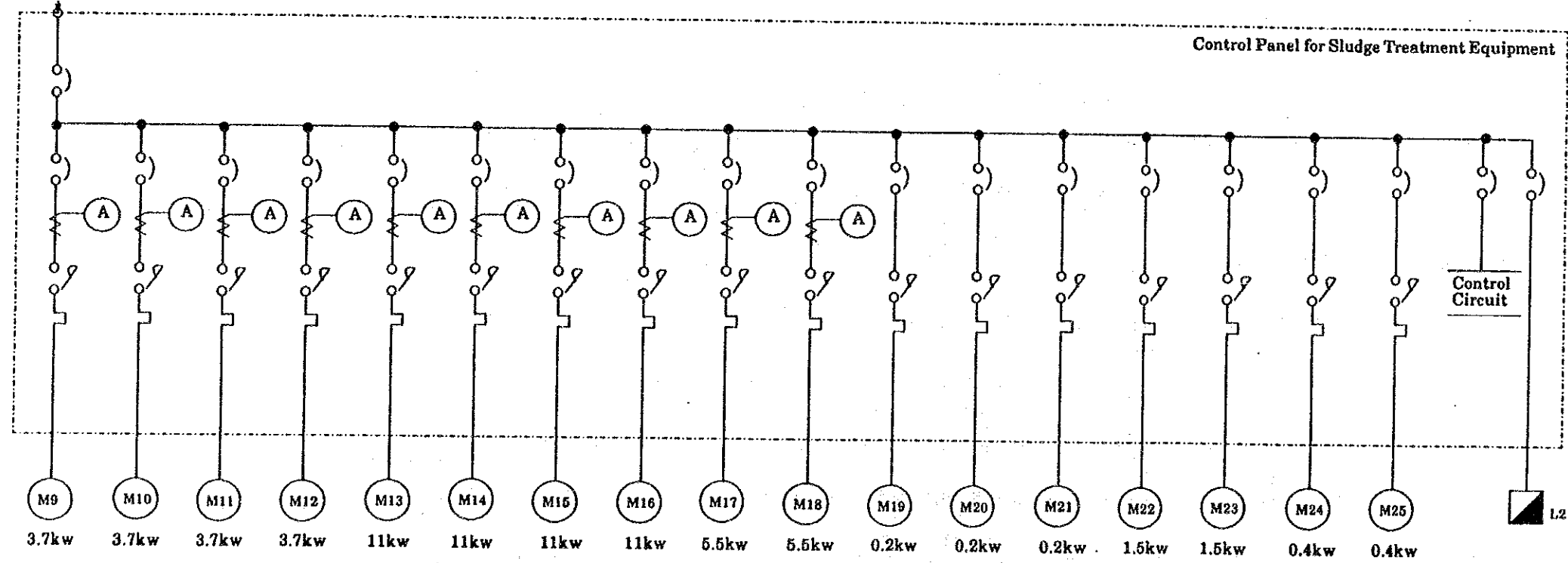
3φ 3w 380V/220V 50Hz



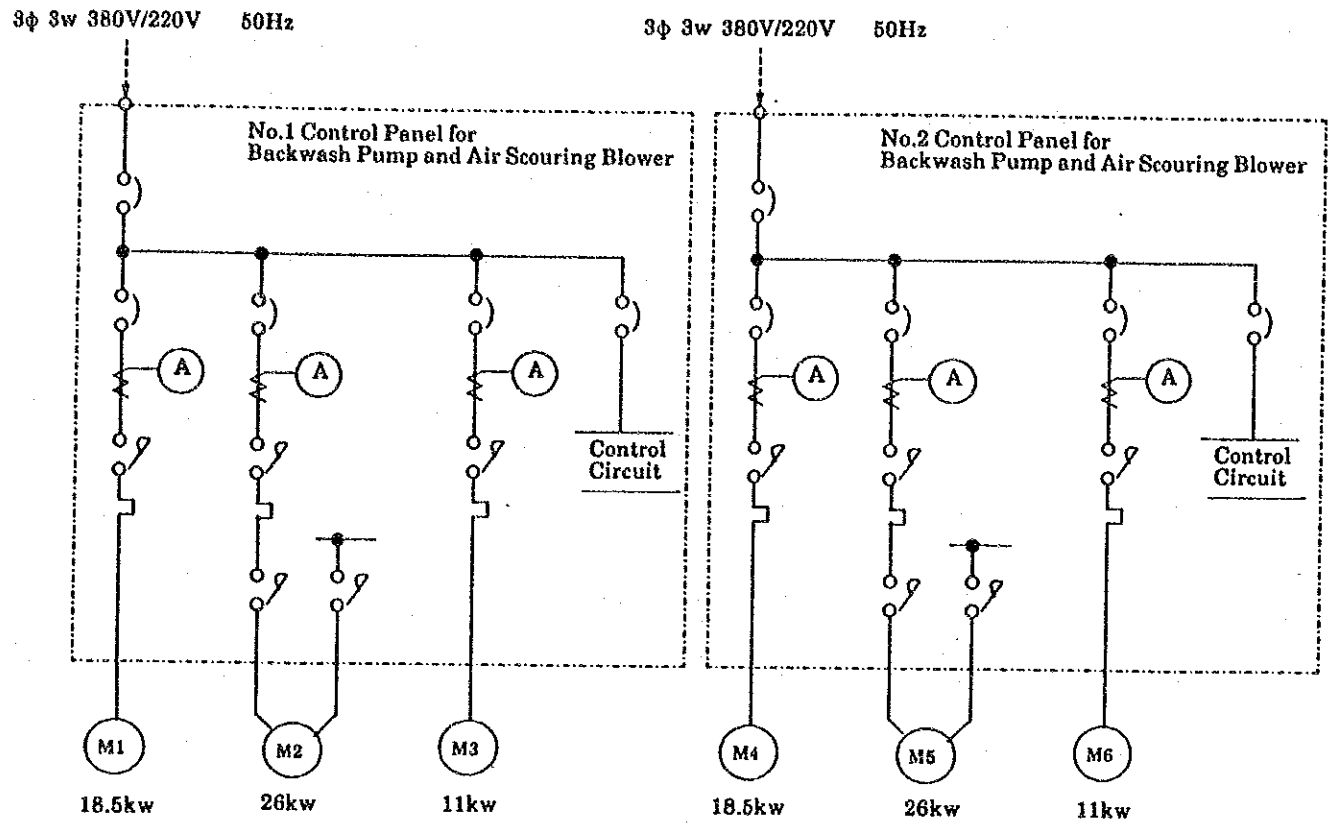
LEGEND

M7-M8	Pressurized Water Pumps
H1-H4	Chlorinators
M9-M12	Sludge Transfer Pumps
M13-M16	Concentrated Sludge Discharge Pump
M17-M18	Clear Water Return Pumps
M19-M21	Coagulant Dosing Pumps
M22-M23	Coagulant Mixers
M24-M25	Scrapers of Sludge Thickning Basin
L1	Lighting Panel
L2	Lighting Panel

3φ 3w 380V/220V 50Hz

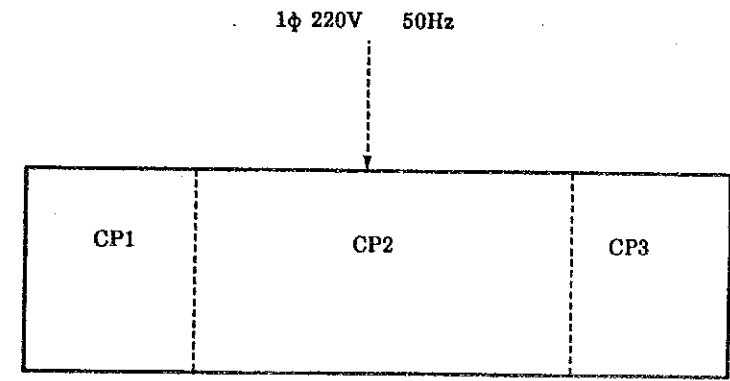
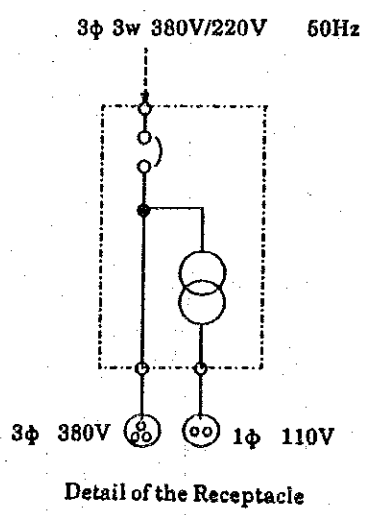
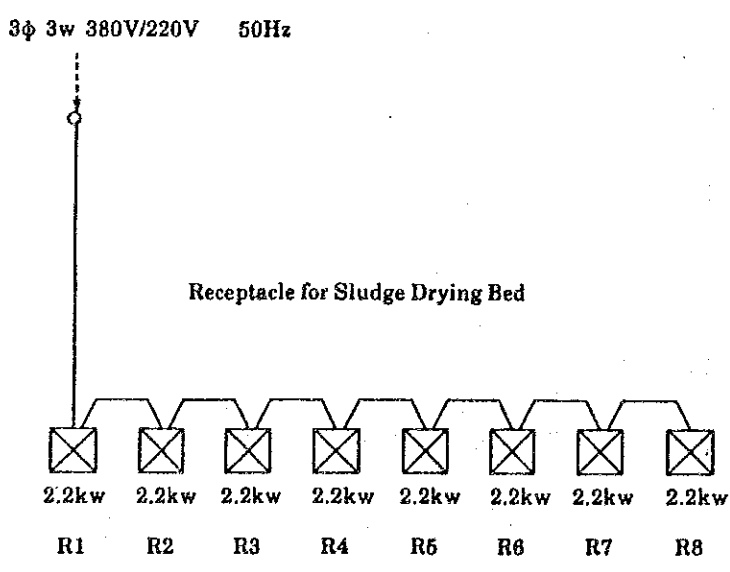


THE SOCIALIST REPUBLIC OF VIET NAM	
Transportation and Urban Public Works Service, HPC	
The Water Supply System in Gia Lam Area in Hanoi City	
Draw. Name	Electric Single Diagram of Water Treatment Plant (2)
Sept. 1993	Scale
Draw No.	23
JAPAN INTERNATIONAL COOPERATION AGENCY	

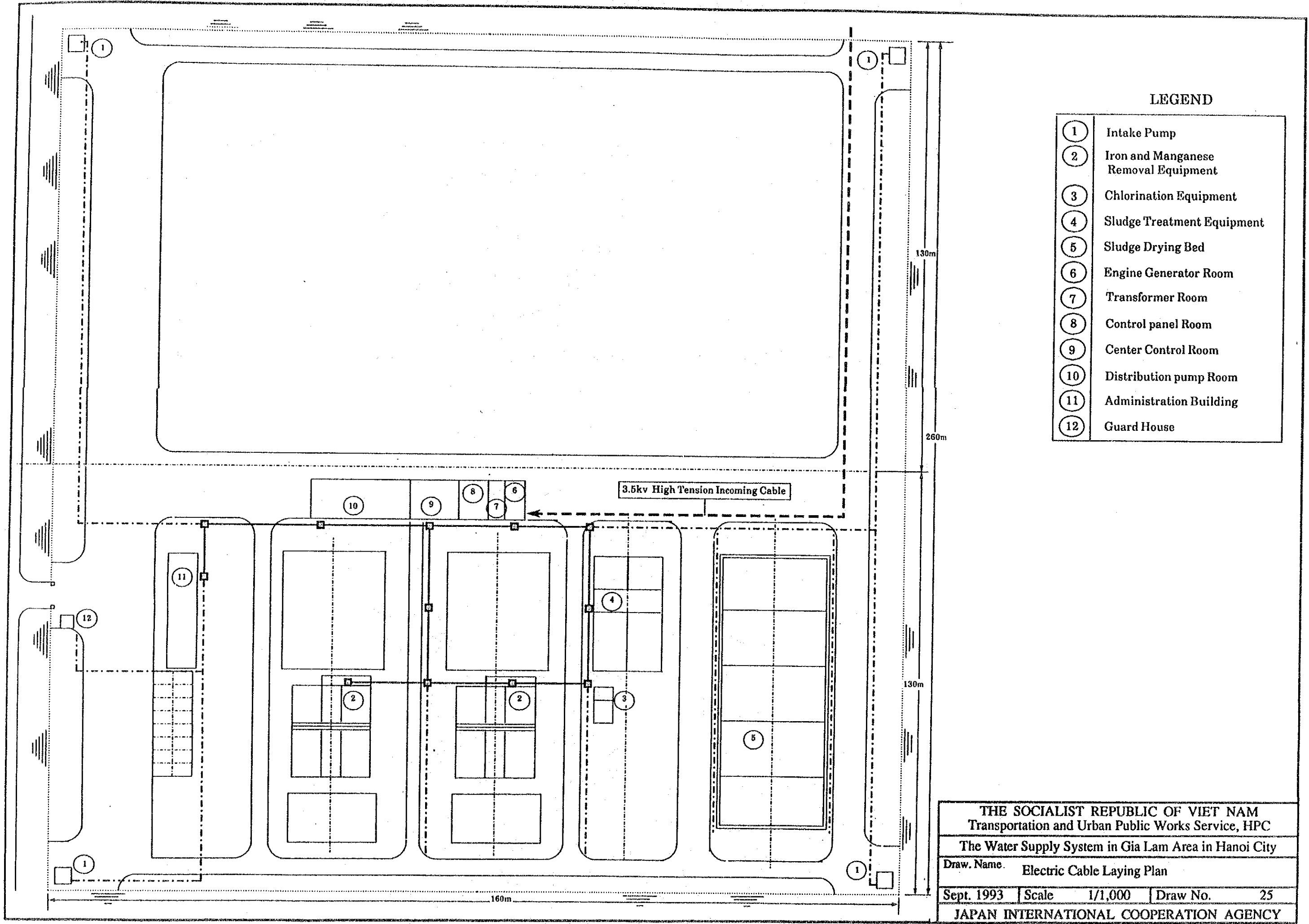


LEGEND

M1	Backwash Pump
M2	Air Scouring Blower
M3	Aeration Blower
M4	Backwash Pump
M5	Air Scouring Blower
M6	Aeration Blower
R1-R8	Receptacles for Sludge Drying Bed
CP1	Center Control Panel for Intake Pumps
CP2	Center Control Panel for Water Treatment Facility
CP3	Center Control Panel for Intake Pump



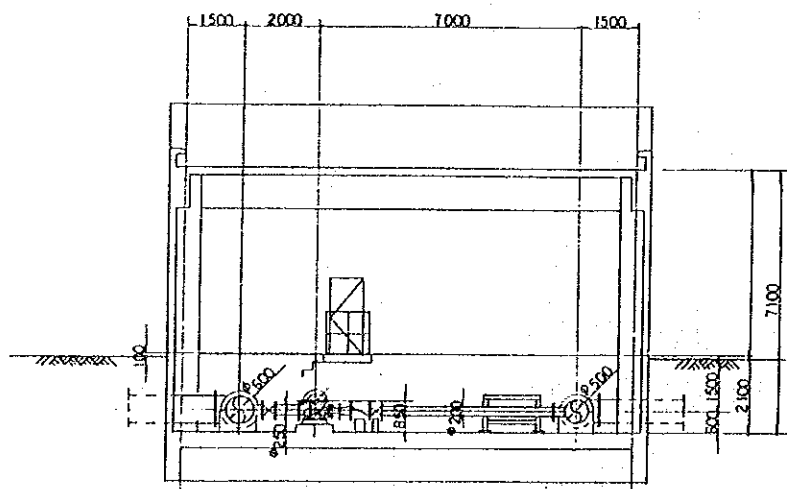
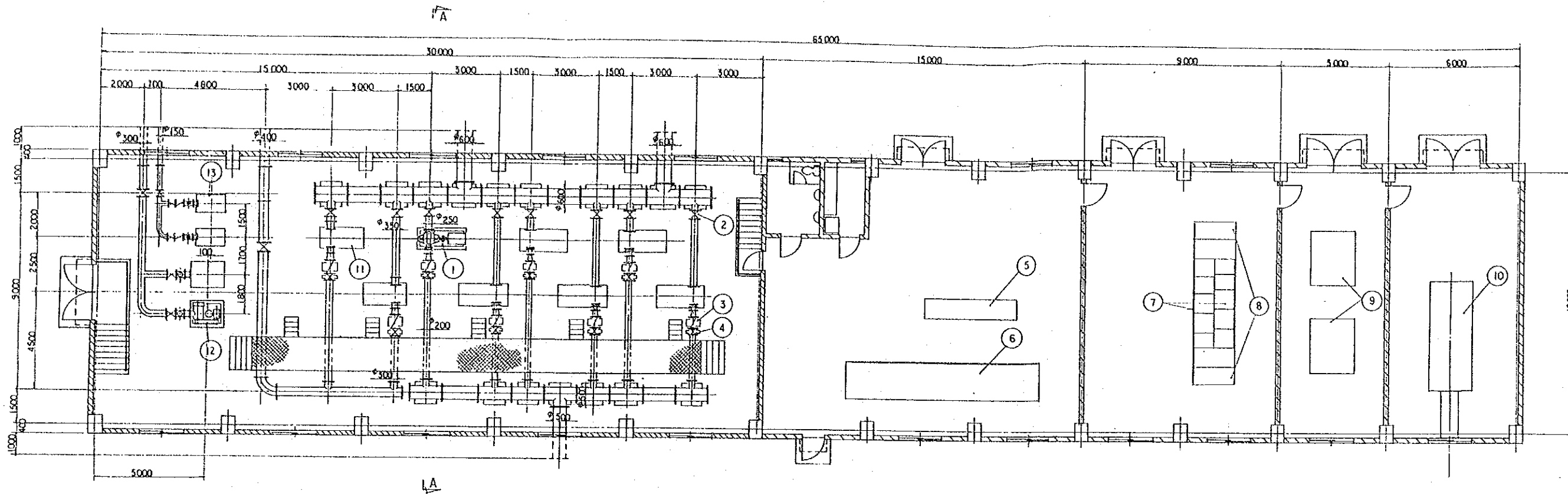
THE SOCIALIST REPUBLIC OF VIET NAM Transportation and Urban Public Works Service, HPC		
The Water Supply System in Gia Lam Area in Hanoi City		
Draw. Name	Electric Single Diagram of Water Treatment Plant (3)	
Sept. 1993	Scale	Draw No. 24
JAPAN INTERNATIONAL COOPERATION AGENCY		



LEGEND

- ① Intake Pump
- ② Iron and Manganese Removal Equipment
- ③ Chlorination Equipment
- ④ Sludge Treatment Equipment
- ⑤ Sludge Drying Bed
- ⑥ Engine Generator Room
- ⑦ Transformer Room
- ⑧ Control panel Room
- ⑨ Center Control Room
- ⑩ Distribution pump Room
- ⑪ Administration Building
- ⑫ Guard House

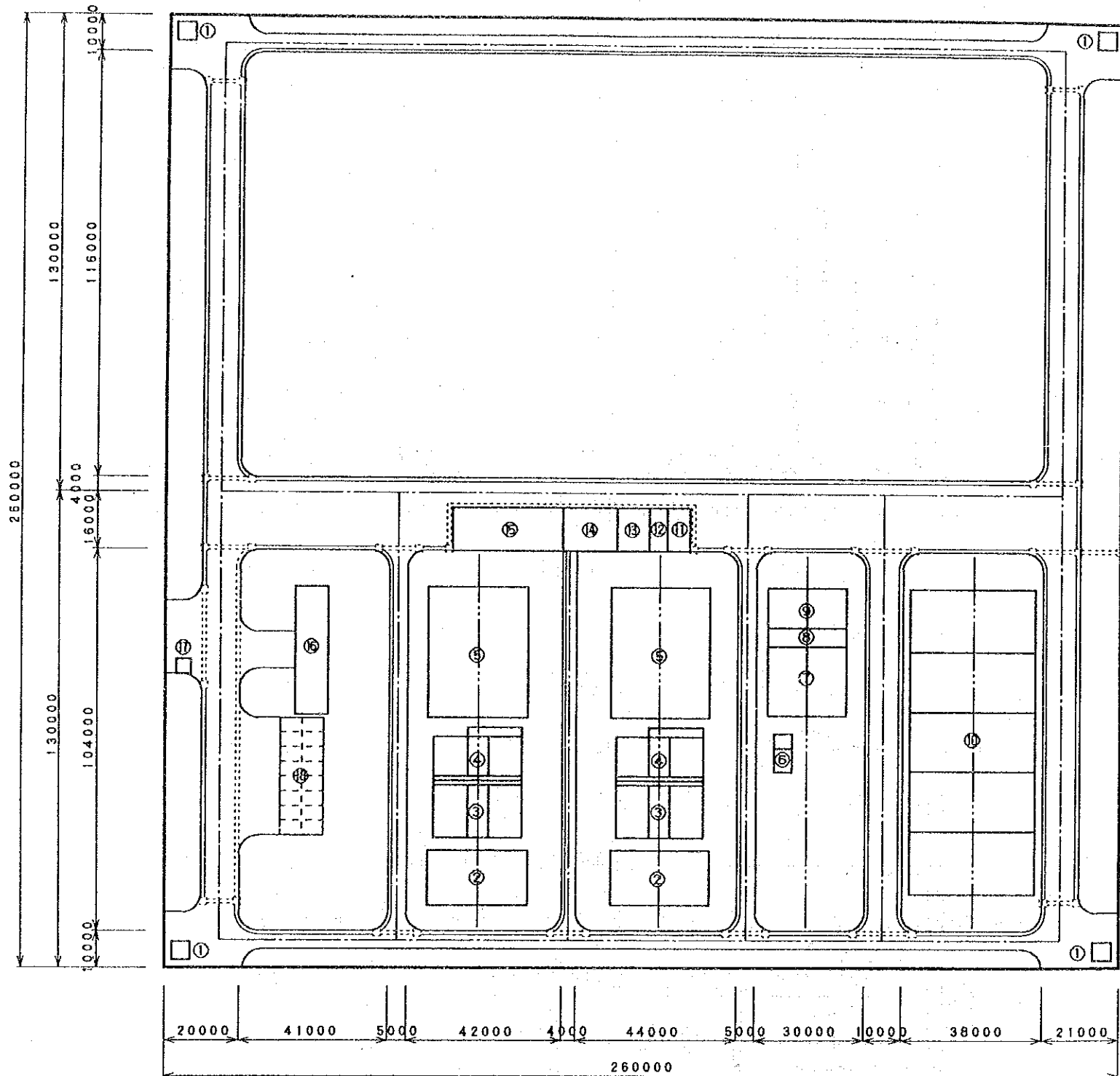
THE SOCIALIST REPUBLIC OF VIET NAM
 Transportation and Urban Public Works Service, HPC
 The Water Supply System in Gia Lam Area in Hanoi City
 Draw. Name. Electric Cable Laying Plan
 Sept. 1993 | Scale 1/1,000 | Draw No. 25
 JAPAN INTERNATIONAL COOPERATION AGENCY



Legend

- 1 Distribution Pump
- 2 Suction Gate Valve
- 3 Discharge Check valve
- 4 Discharge Gate Valve
- 5 Operation Desk
- 6 Control panel
- 7 Low Voltage Panel
- 8 Transformer Primary Panel
- 9 Transformer
- 10 Emergency Generator
- 11 Back Wash pump
- 12 Wash Blower
- 13 Aeration Blower

THE SOCIALIST REPUBLIC OF VIET NAM			
Transportation and Urban Public Works Service, HPC			
The Water Supply System in Gia Lam Area in Hanoi City			
Draw. Name	Distribution Pump		
Sept. 1993	Scale	1/100	Draw No. 26
JAPAN INTERNATIONAL COOPERATION AGENCY			



ROAD PAVEMENT

CONCRETE ($\sigma_{bk} = 45 \text{ kg/cm}^2$)	200
BASE COURSE: CRUSHED STONE FOR MECHANICAL STABILIZATION	200
	400

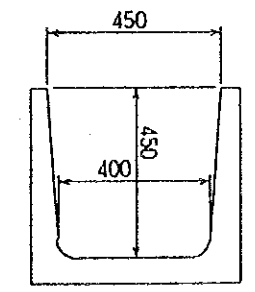
LEGEND

- ① Intake Well House
- ② Aeration and Sedimentation Equipment
- ③ Iron Removal Equipment
- ④ Manganese Removal Equipment
- ⑤ Reservoir Tank
- ⑥ Chlorination Equipment
- ⑦ Sludge Reservoir Basin
- ⑧ Sludge Treatment Room
- ⑨ Sludge Thichning Basin
- ⑩ Sludge Drying Bed
- ⑪ D/G Room
- ⑫ Transformer Room
- ⑬ Electrical Room
- ⑭ Control Room
- ⑮ Distribution Pump Room
- ⑯ Administration Building
- ⑰ Guard House
- ⑱ Parking Area

LEGEND

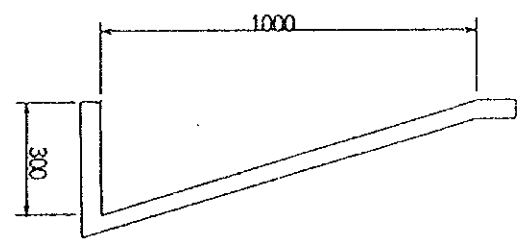
Gutter L-1000x300	— — — —
Covered Gutter U-450x450	- - - - -
Connective Basin	□

Covered Gutter U-450x450



U-450x450 (of Pre-cast Concrete)

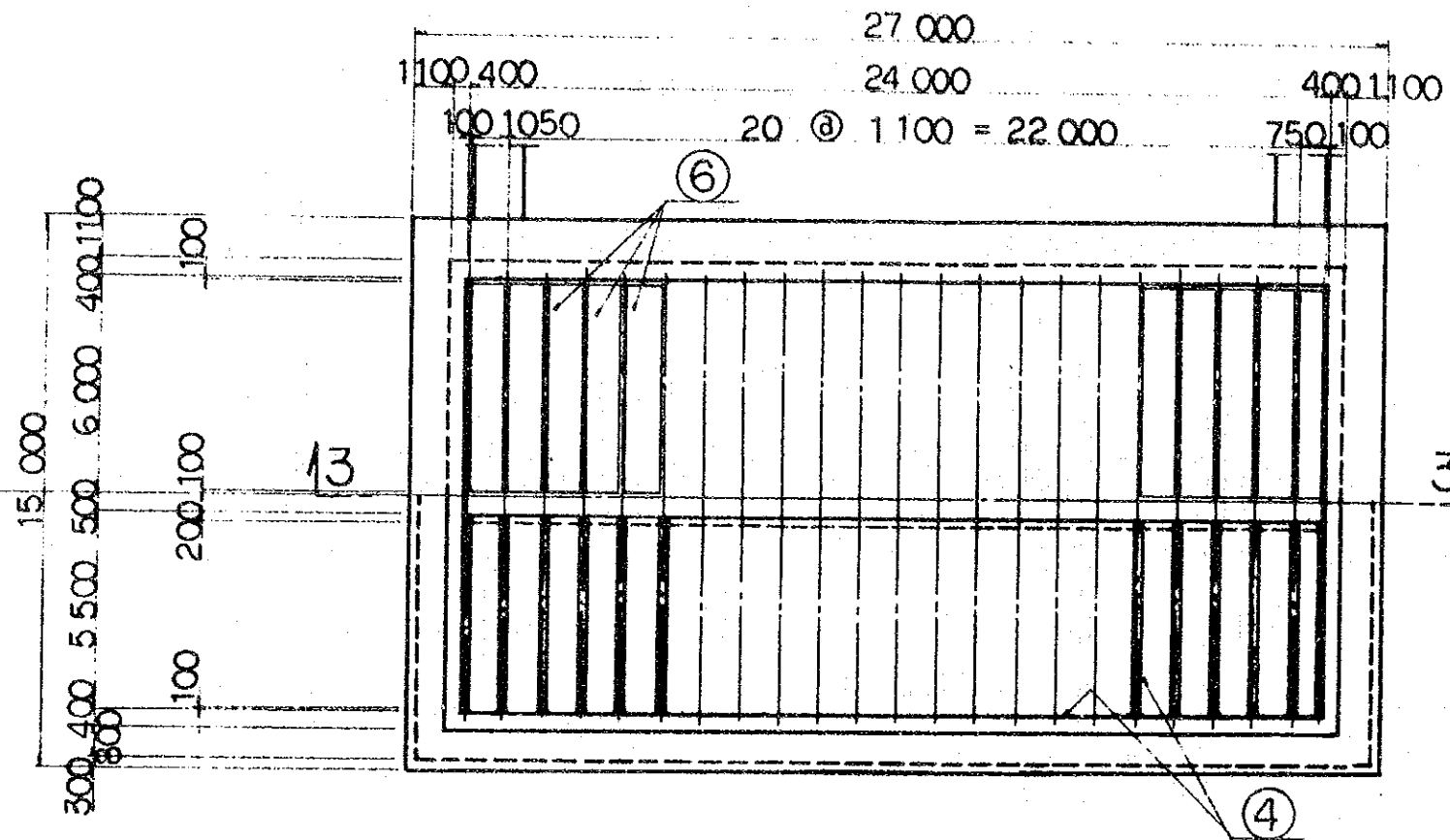
Gutter L-1000x300



L-1000x300 (of Cast-in-place Concrete)

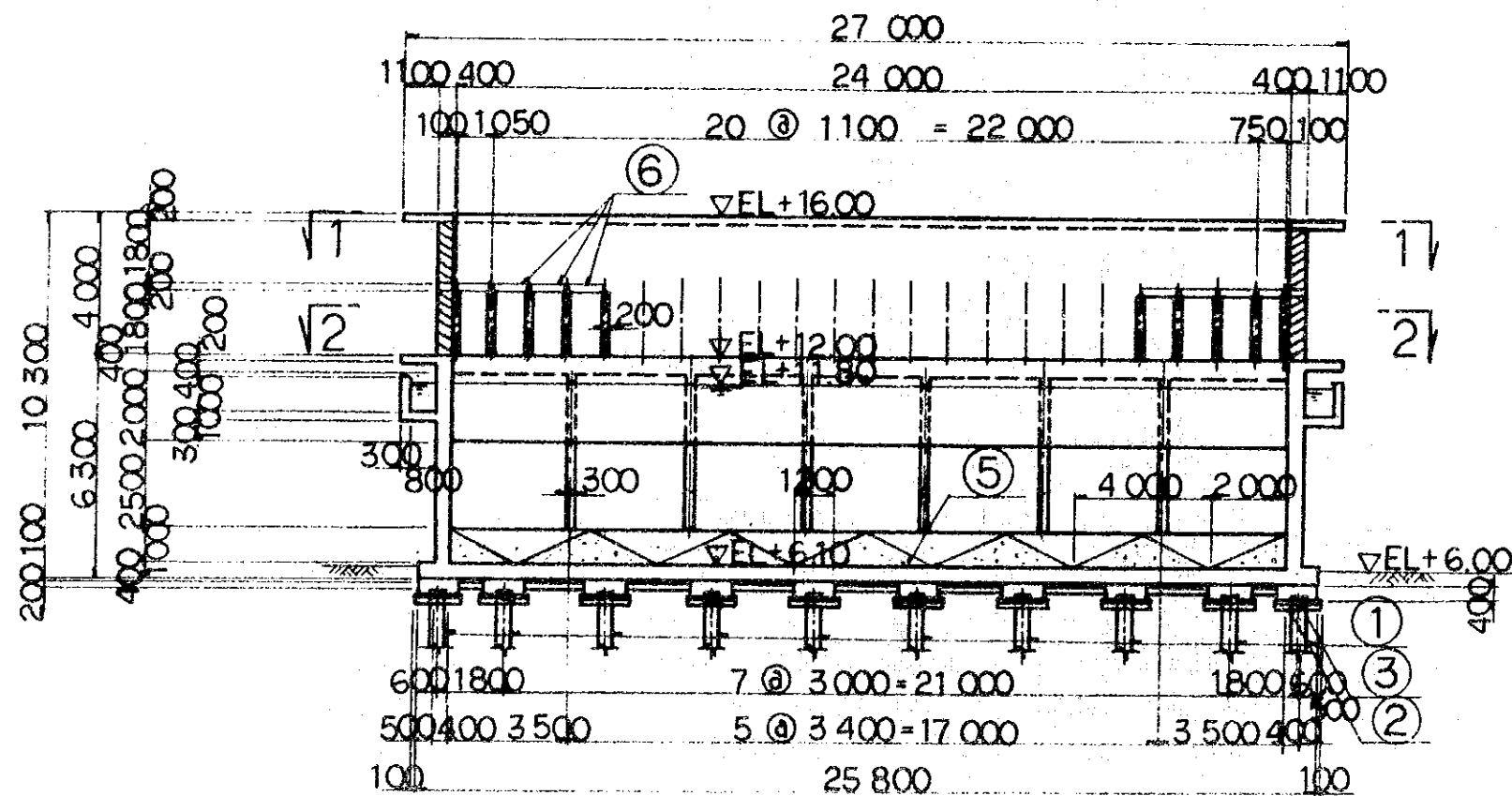
THE SOCIALIST REPUBLIC OF VIET NAM			
Transportation and Urban Public Works Service, HPC			
The Water Supply System in Gia Lam Area in Hanoi City			
Draw. Name	Layout Plan for Civil Works		
Sept. 1993	Scale	1/1,500	Draw No. 27
JAPAN INTERNATIONAL COOPERATION AGENCY			

PLAN



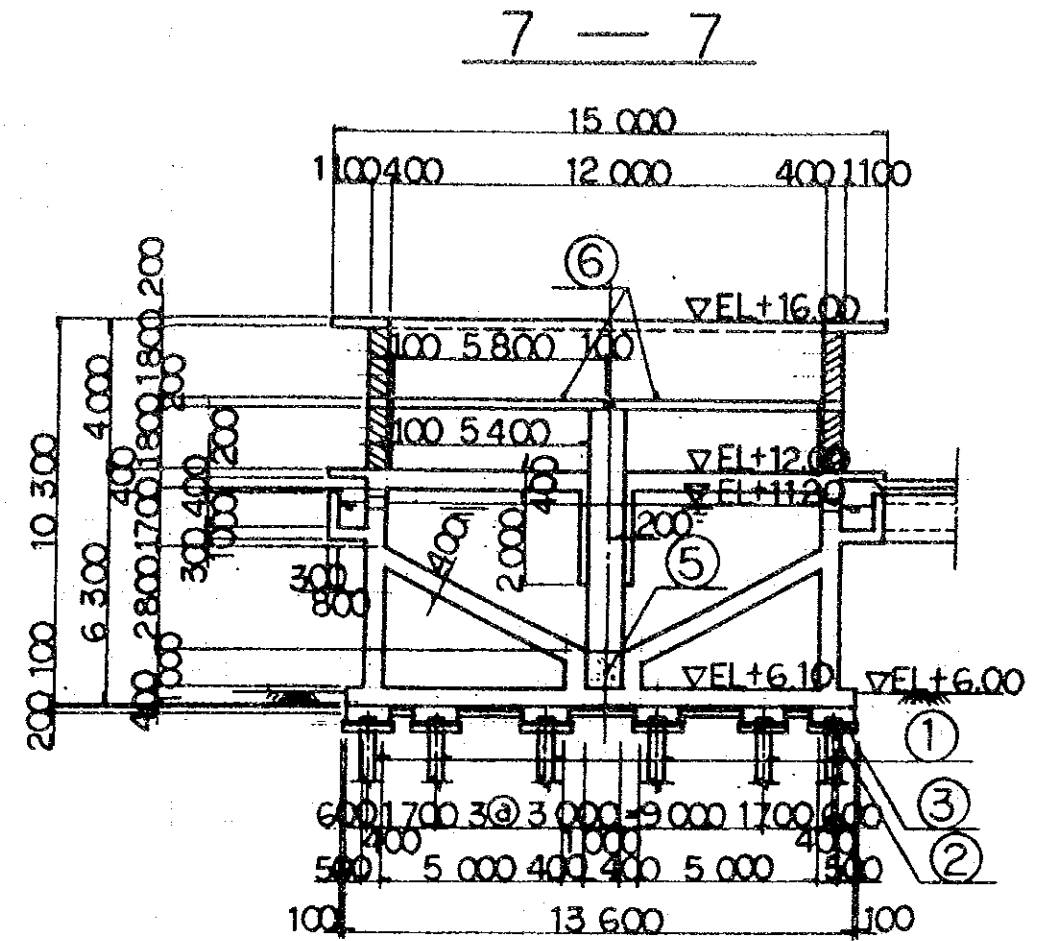
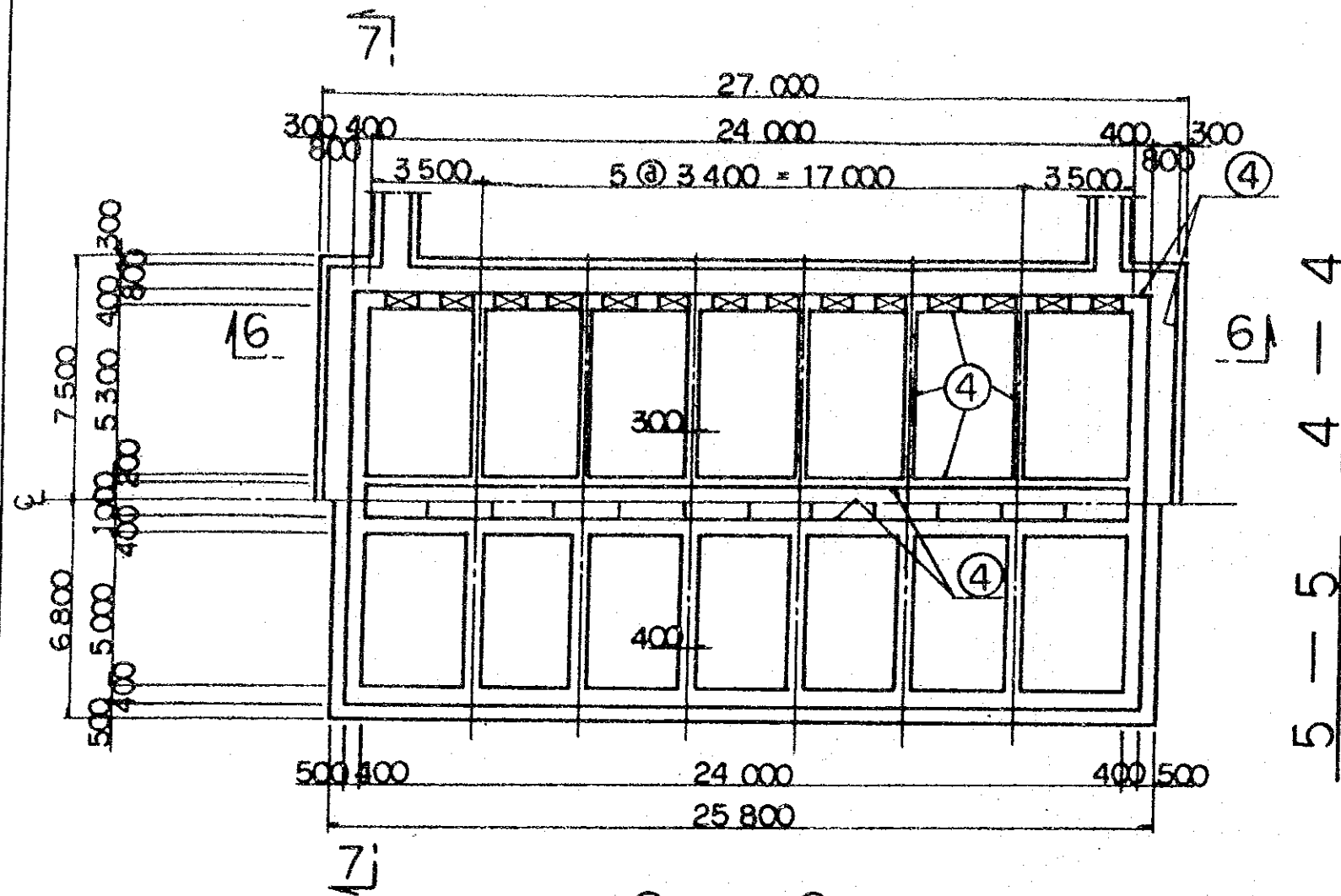
2 — 2
1 — 1

3 — 3

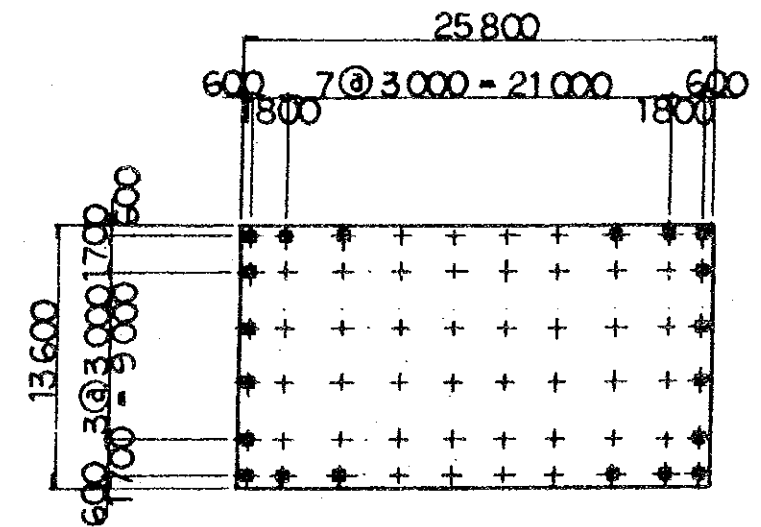
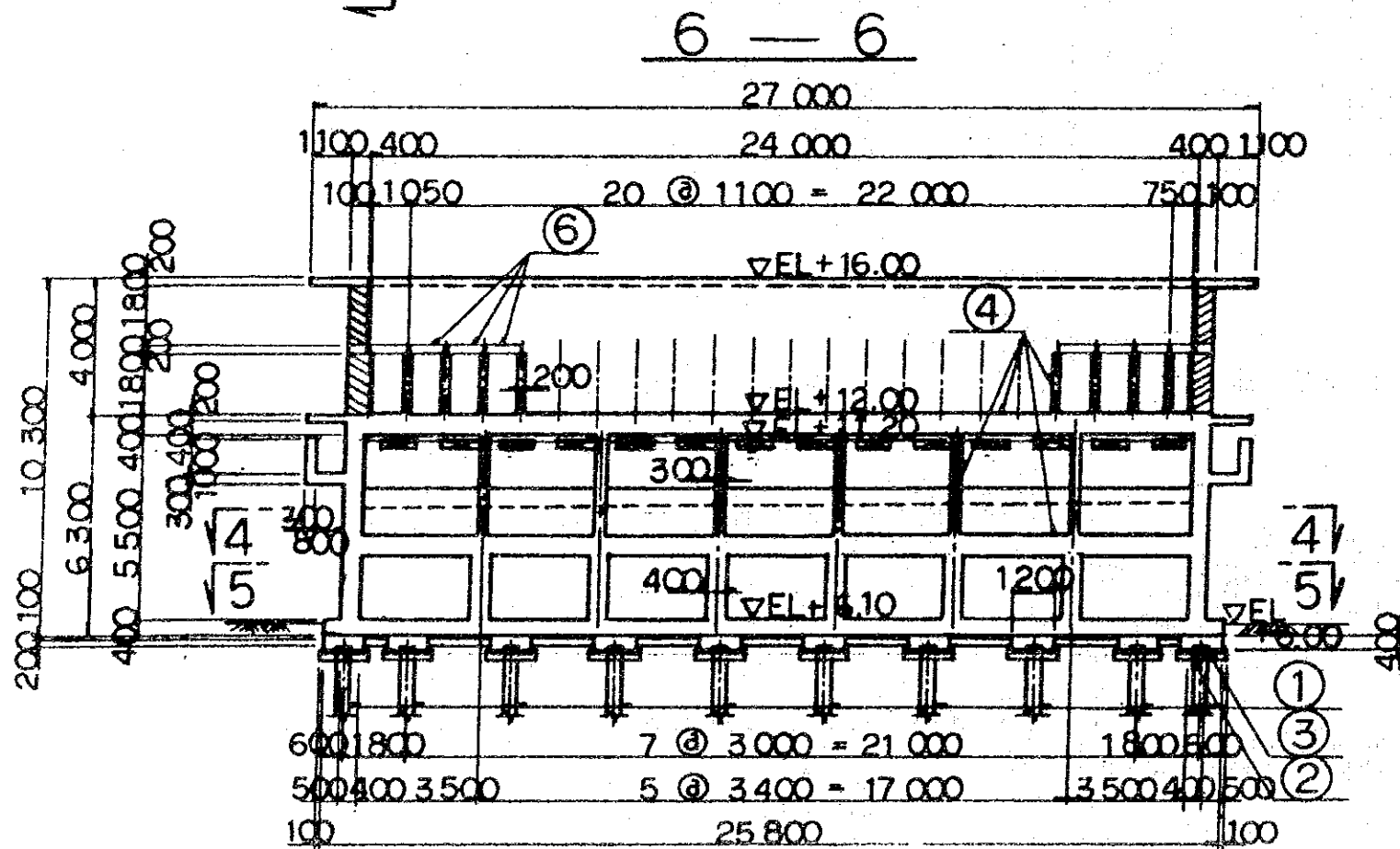


①	reinforced concrete pile
②	gravel
③	leveling concrete
④	waterproof coating
⑤	plain concrete
⑥	baffle board
⑦	U-type frame
⑧	filter sand
⑨	filter concrete bed
⑩	filter gravel
⑪	flash board

THE SOCIALIST REPUBLIC OF VIET NAM			
Transportation and Urban Public Works Service, HPC			
The Water Supply System in Gia Lam Area in Hanoi City			
Draw. Name	Aeration and Sedimentation Basin (1)		
Sept. 1993	Scale	1/200	Draw No. 28
JAPAN INTERNATIONAL COOPERATION AGENCY			

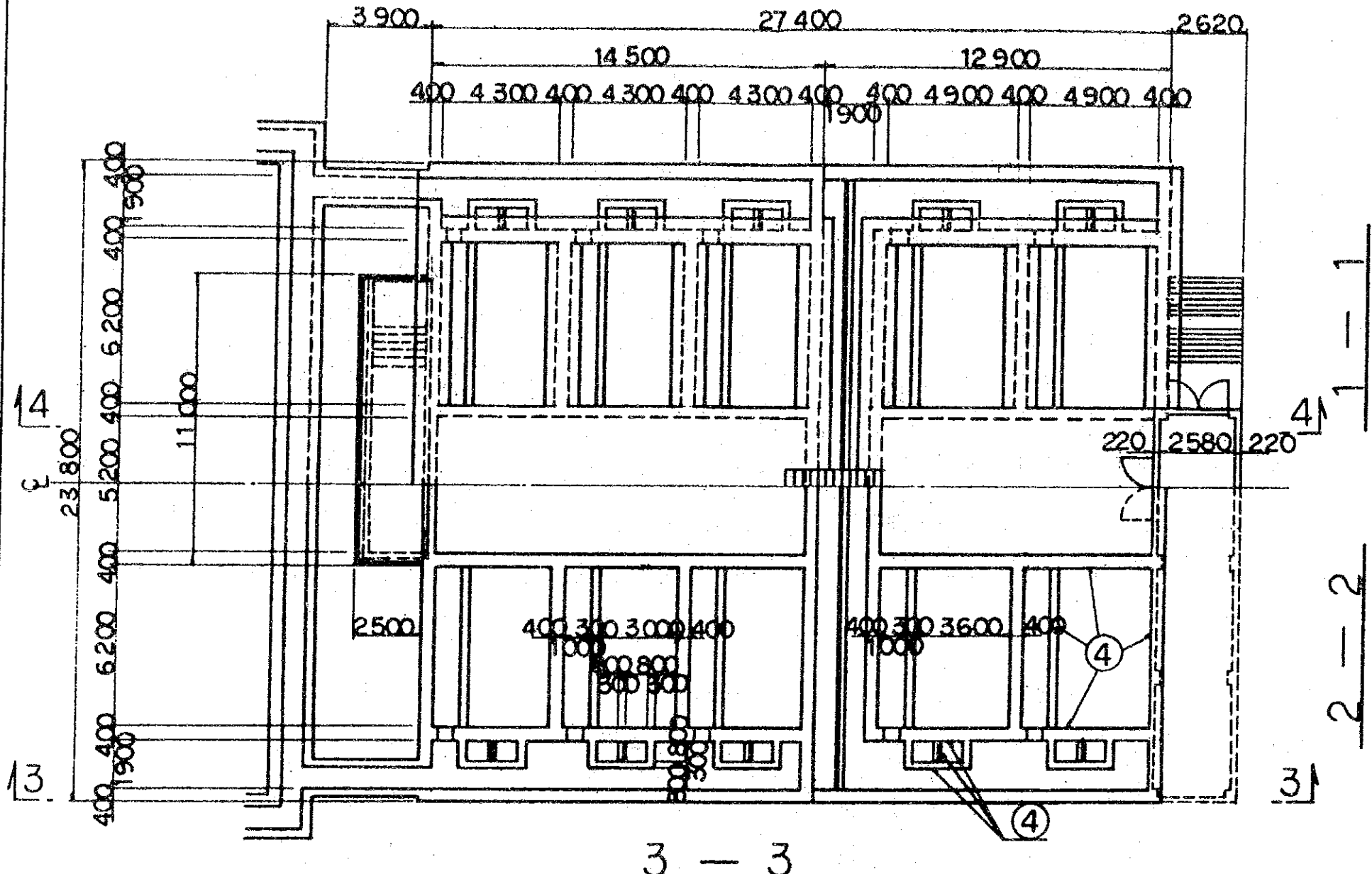


PILE ARRANGEMENT S=1/400

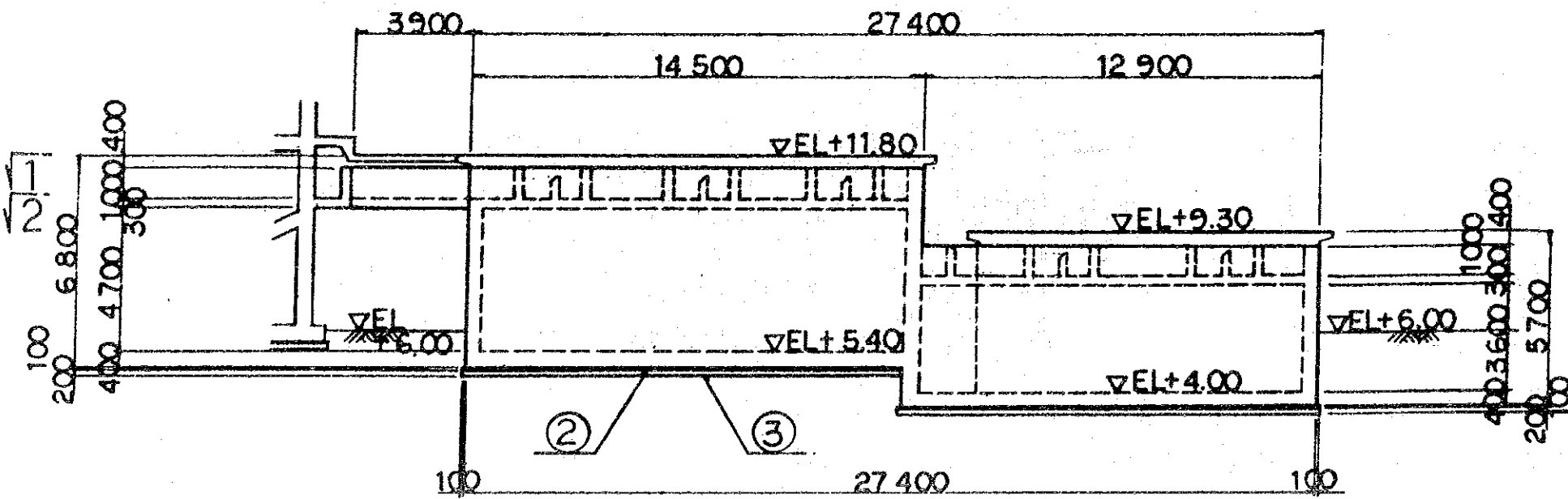


THE SOCIALIST REPUBLIC OF VIET NAM		
Transportation and Urban Public Works Service, HPC		
The Water Supply System in Gia Lam Area in Hanoi City		
Draw. Name	Aeration and Sedimentation Basin (2)	
Sept. 1993	Scale 1/200	Draw No. 29
JAPAN INTERNATIONAL COOPERATION AGENCY		

PLAN

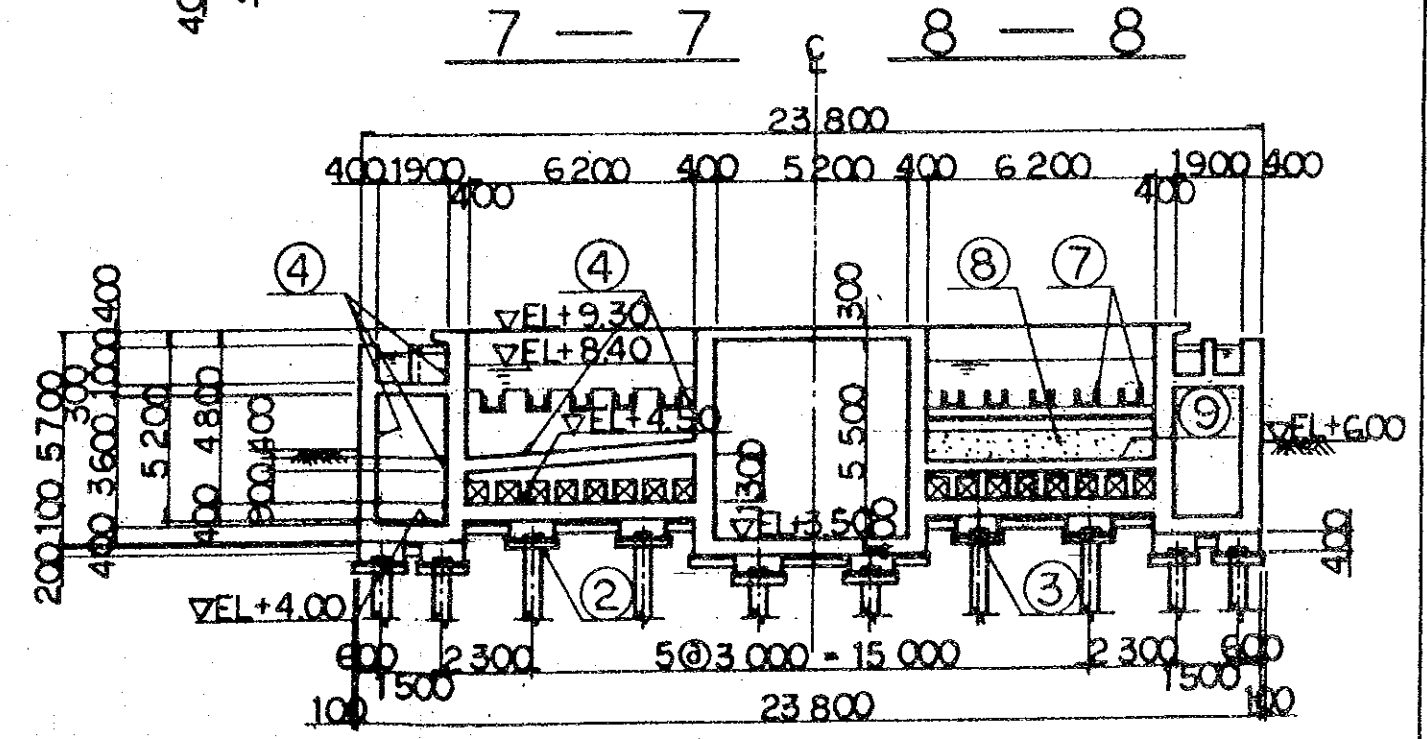
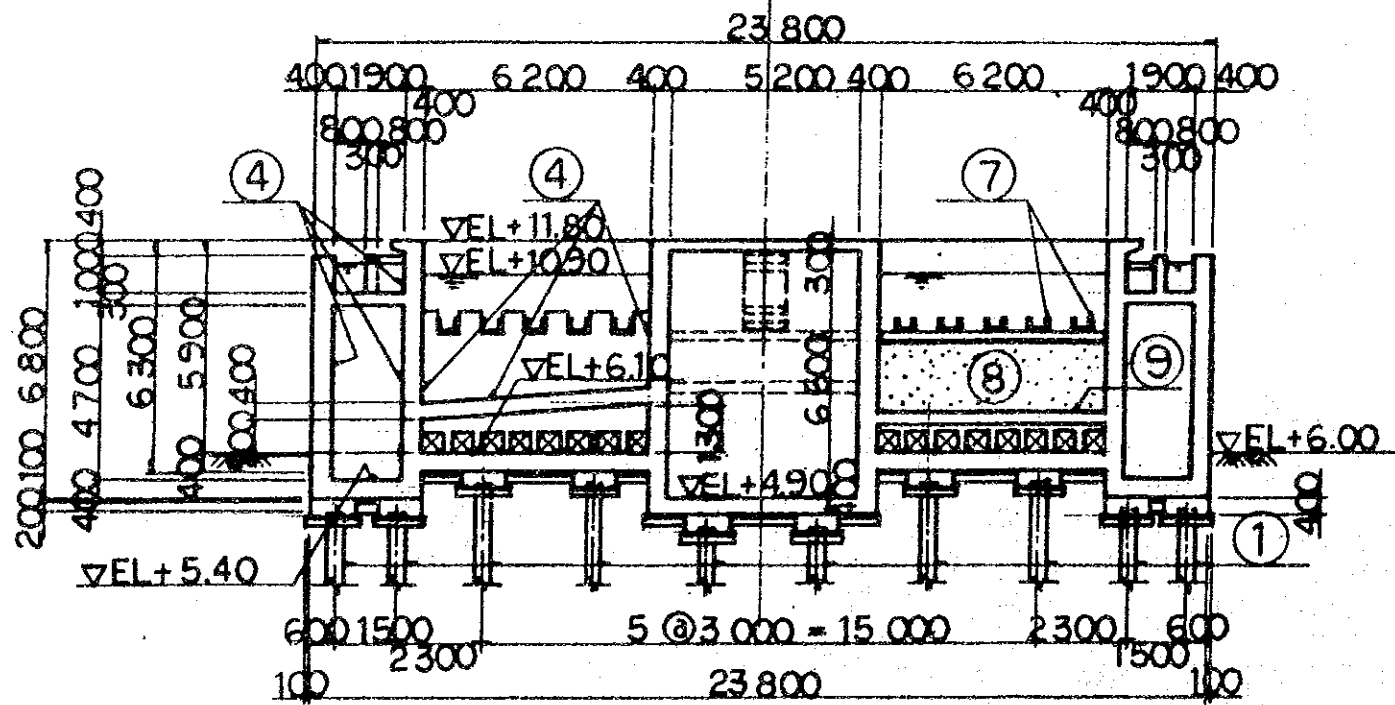
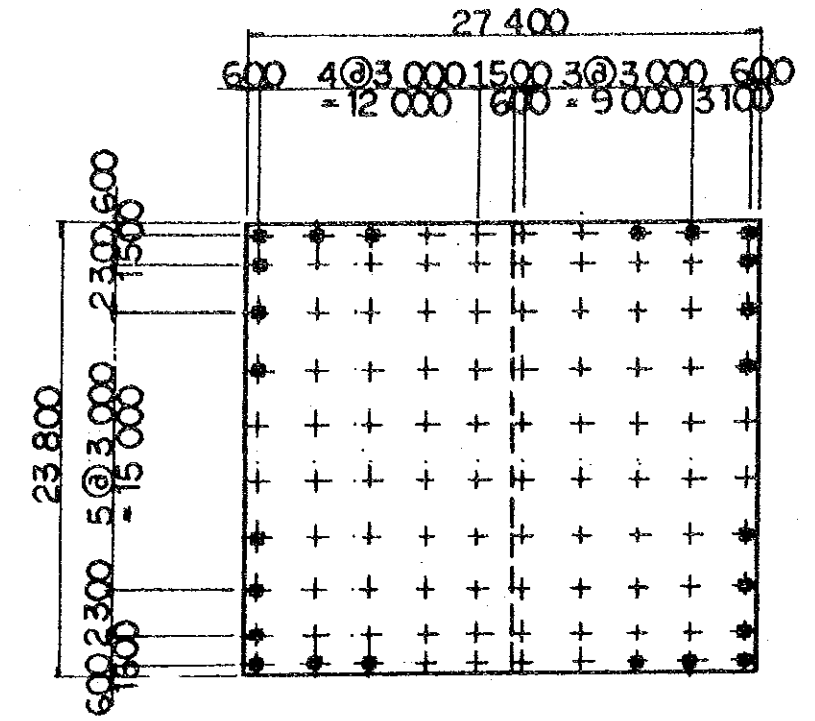
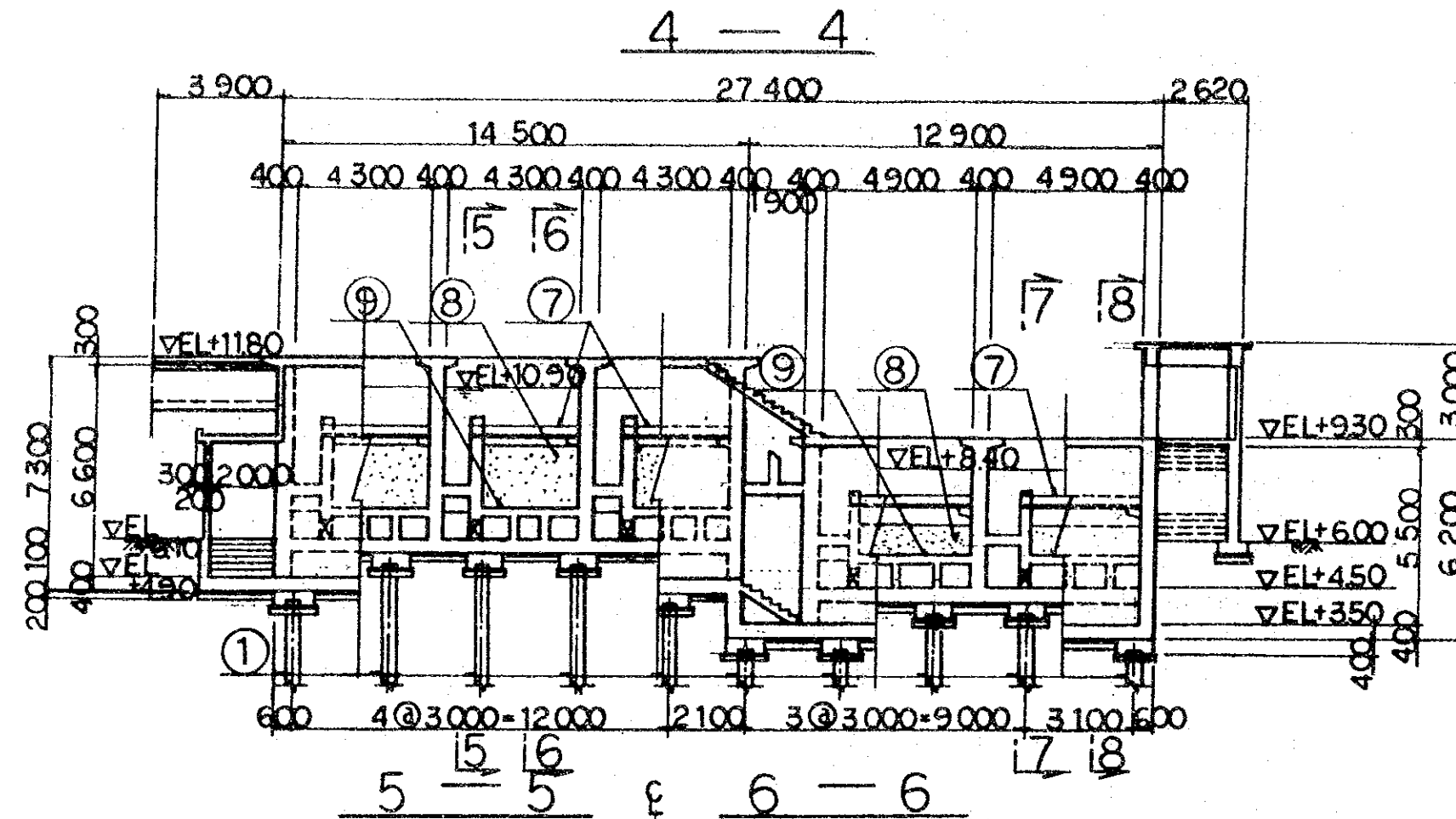


①	reinforced concrete pile
②	gravel
③	leveling concrete
④	waterproof coating
⑤	plain concrete
⑥	babble board
⑦	U-type flume
⑧	filter sand
⑨	filter concrete bed
⑩	filter gravel
⑪	flash board

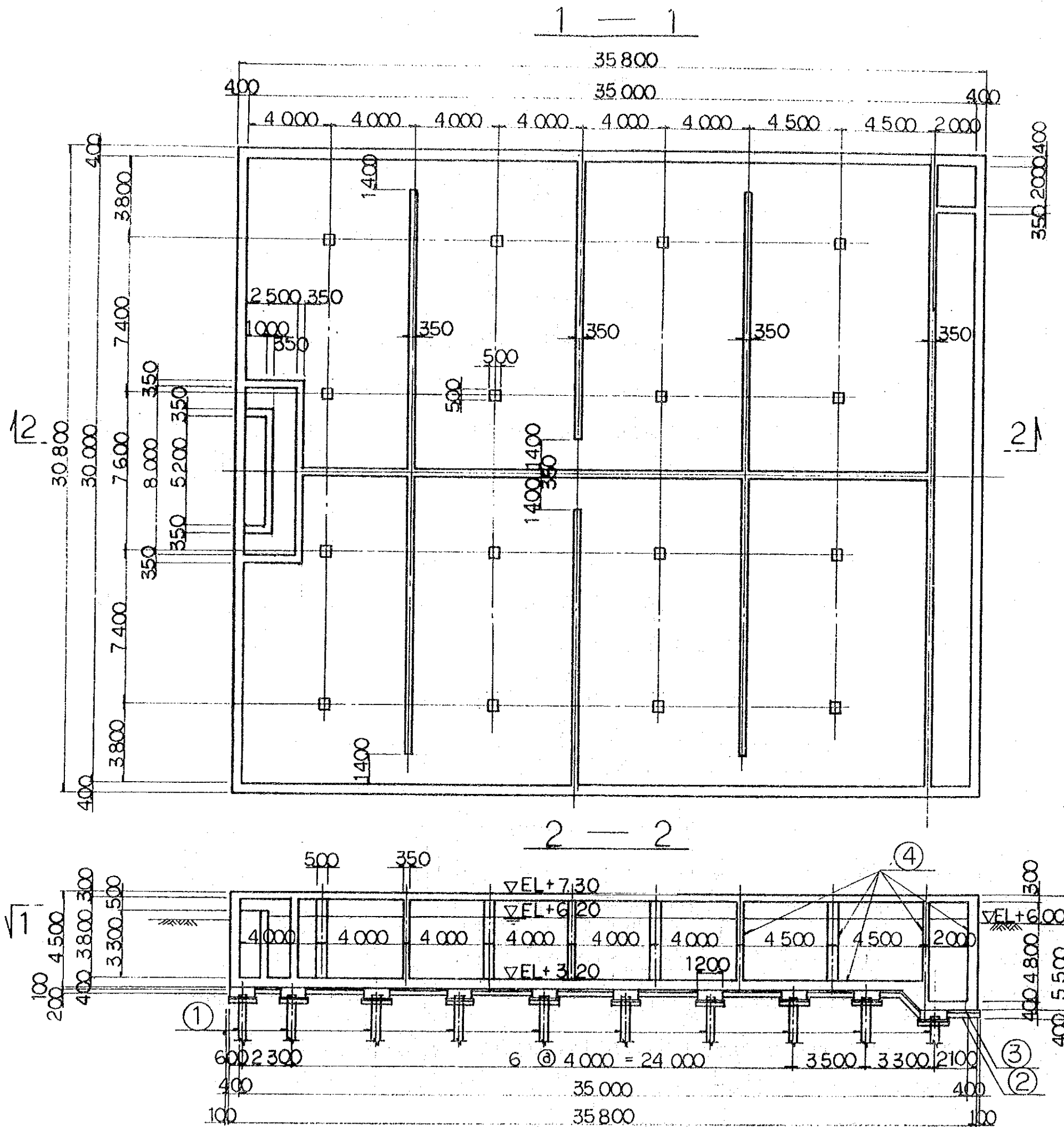


THE SOCIALIST REPUBLIC OF VIET NAM Transportation and Urban Public Works Service, HPC		
The Water Supply System in Gia Lam Area in Hanoi City		
Draw. Name	Iron and Manganese Removal Basin (1)	
Sept. 1993	Scale 1/200	Draw No. 30
JAPAN INTERNATIONAL COOPERATION AGENCY		

PILE ARRANGEMENT S=1/400

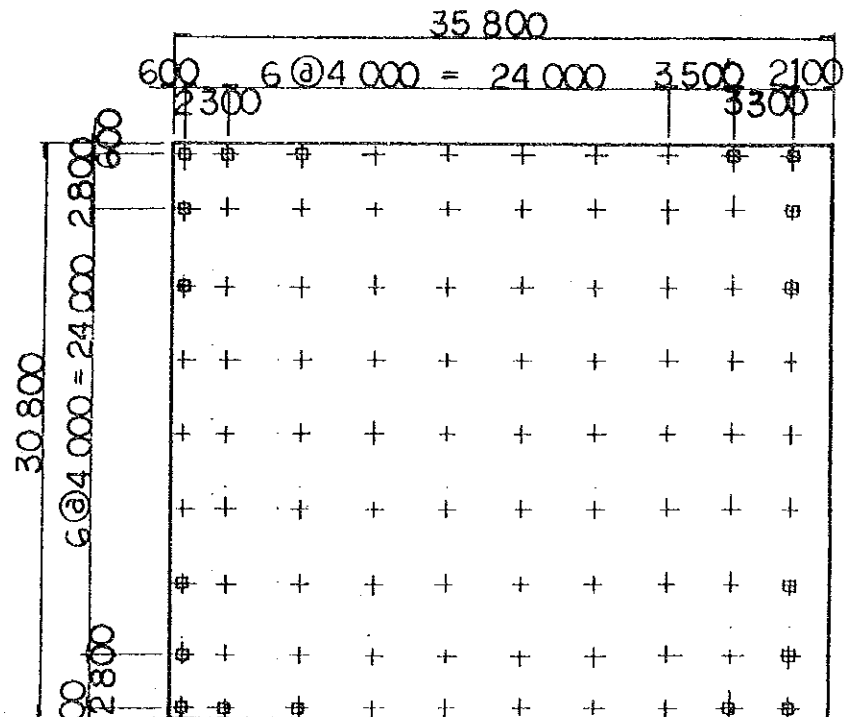


THE SOCIALIST REPUBLIC OF VIET NAM			
Transportation and Urban Public Works Service, HPC			
The Water Supply System in Gia Lam Area in Hanoi City			
Draw. Name	Iron and Manganese Removal Basin (2)		
Sept. 1993	Scale	1/200	Draw No. 31
JAPAN INTERNATIONAL COOPERATION AGENCY			



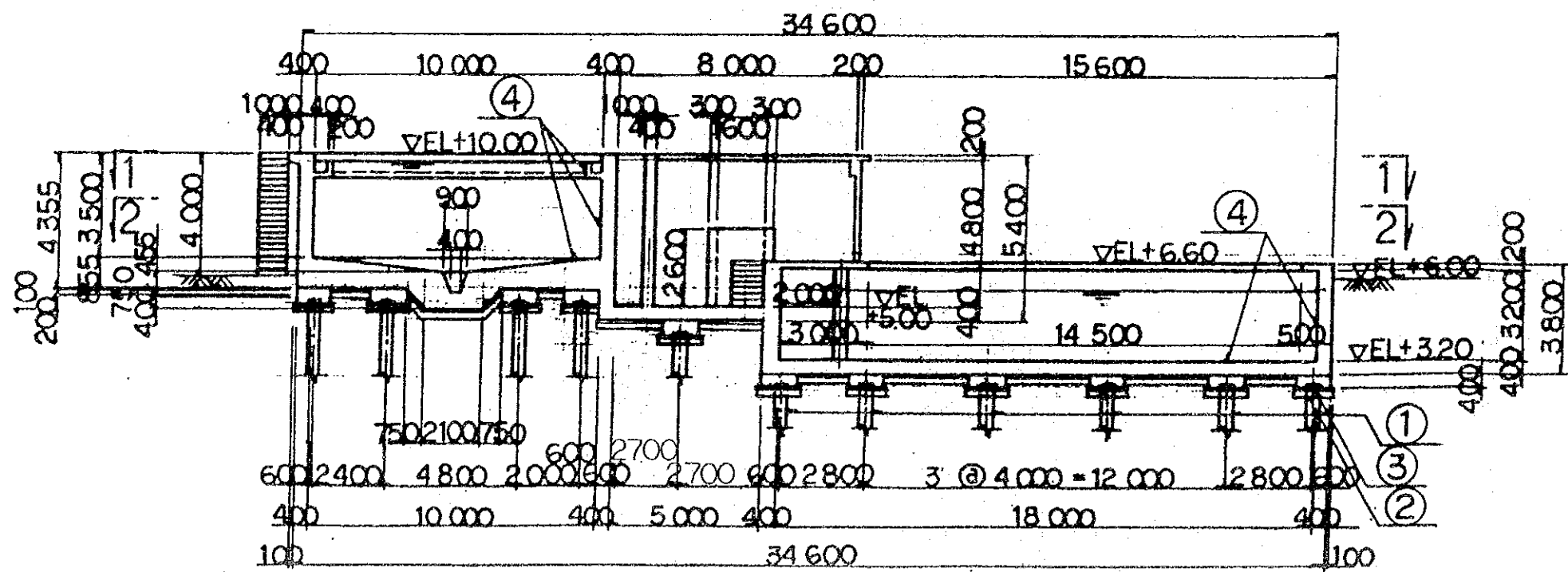
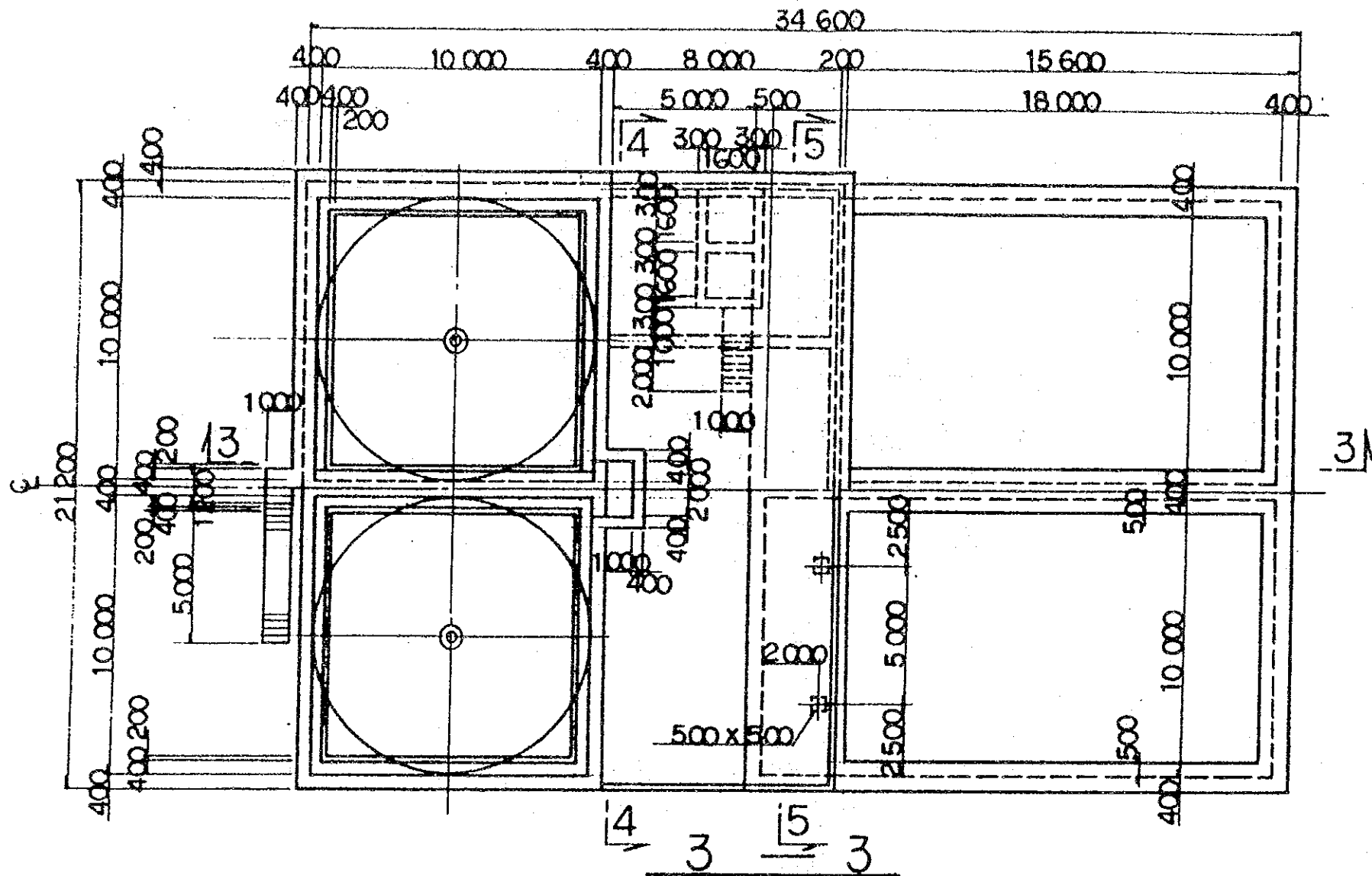
①	reinforced concrete pile
②	gravel
③	leveling concrete
④	waterproof coating
⑤	plain concrete
⑥	babble board
⑦	U-type flame
⑧	filter sand
⑨	filter concrete bed
⑩	filter gravel
⑪	flash board

PILE ARRANGEMENT S=1/400



THE SOCIALIST REPUBLIC OF VIET NAM			
Transportation and Urban Public Works Service, HPC			
The Water Supply System in Gia Lam Area in Hanoi City			
Draw. Name	Reservoir Tank		
Sept. 1993	Scale	1/200	Draw No. 32
JAPAN INTERNATIONAL COOPERATION AGENCY			

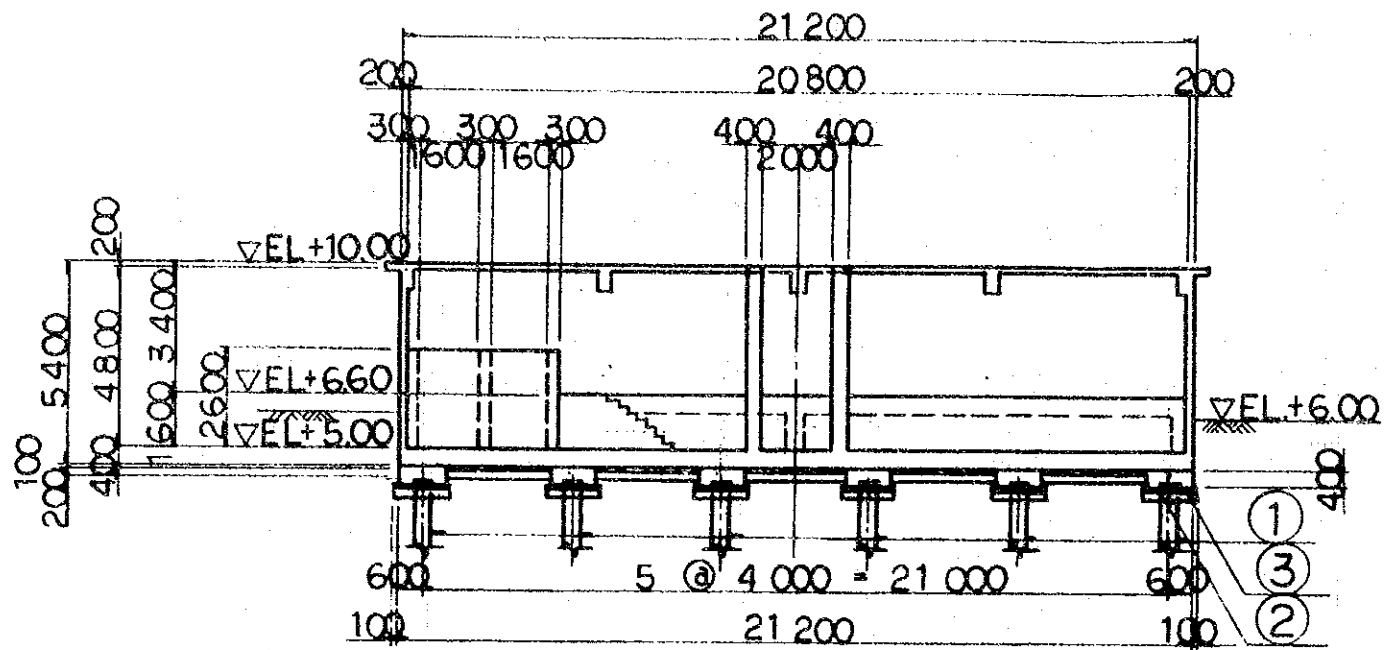
PLAN



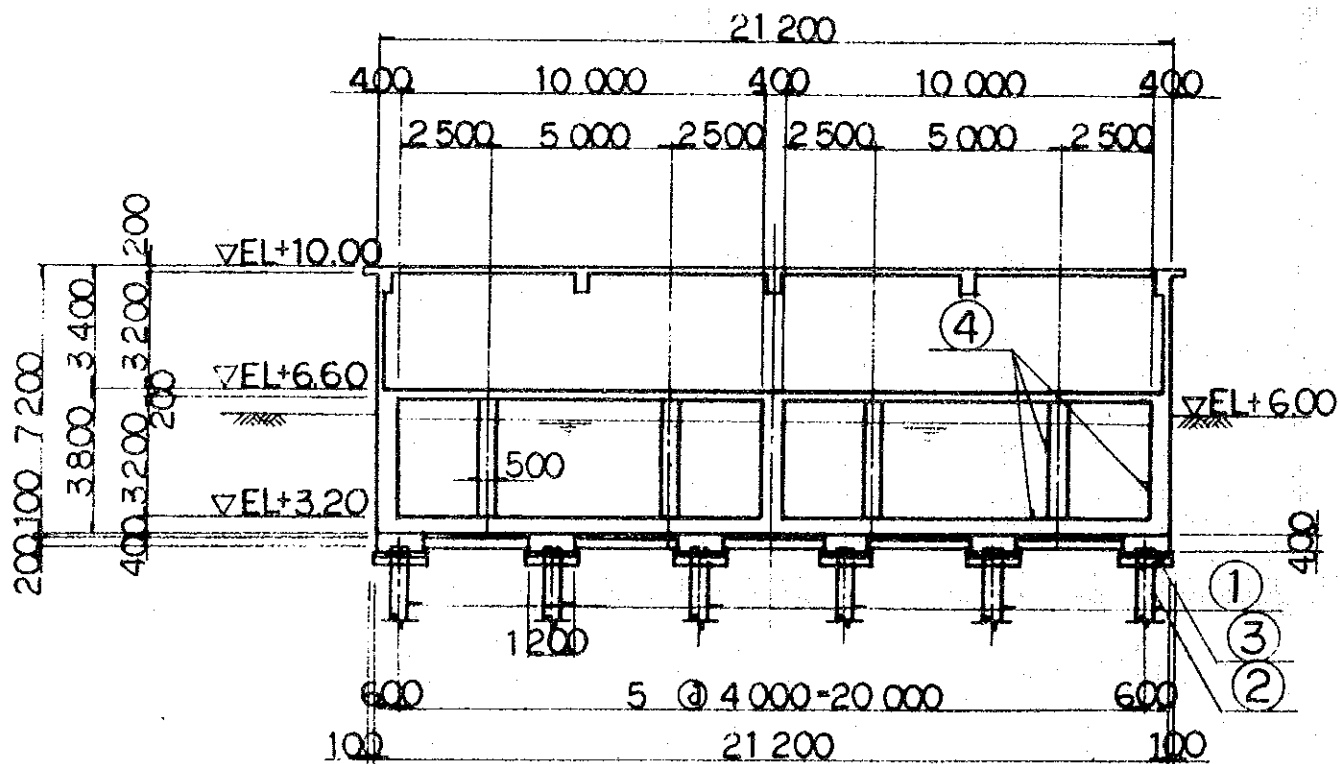
①	reinforced concrete pile
②	gravel
③	leveling concrete
④	waterproof coating
⑤	plain concrete
⑥	babble board
⑦	U-type frame
⑧	filter sand
⑨	filter concrete bed
⑩	filter gravel
⑪	flash board

THE SOCIALIST REPUBLIC OF VIET NAM Transportation and Urban Public Works Service, HPC		
The Water Supply System in Gia Lam Area in Hanoi City		
Draw. Name	Sludge Treatment Basin (1)	
Sept. 1993	Scale 1/200	Draw No. 33
JAPAN INTERNATIONAL COOPERATION AGENCY		

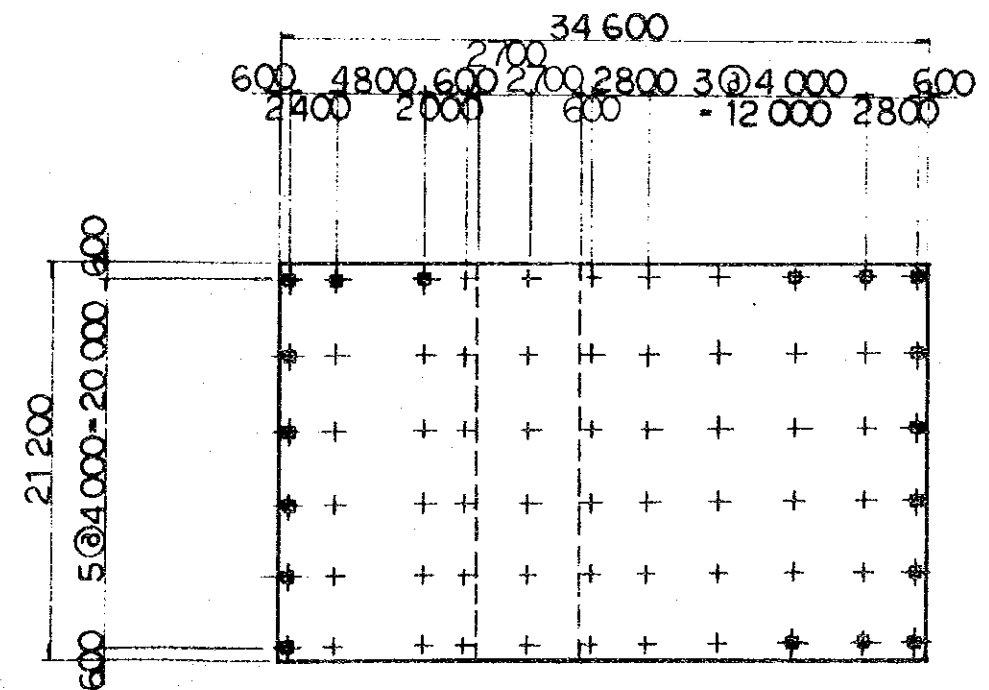
4 — 4



5 — 5

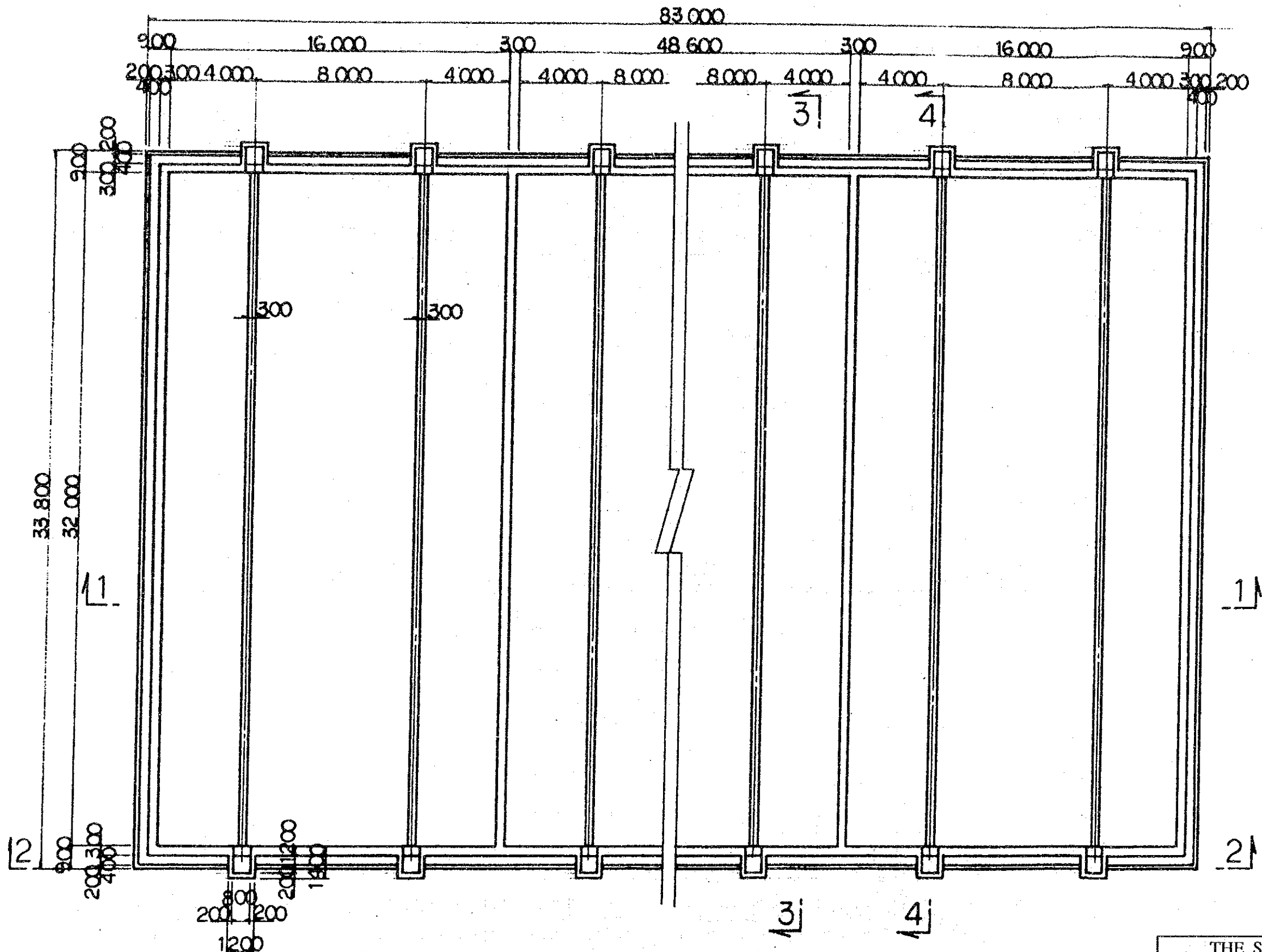


PILE ARRANGEMENT S=1/400

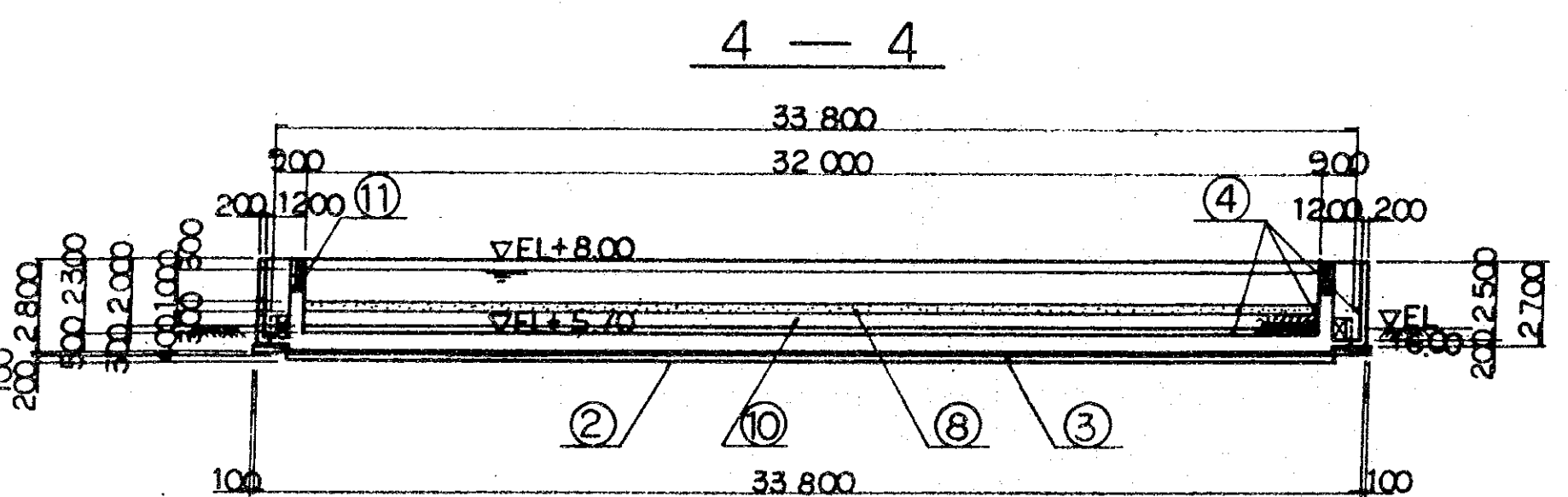
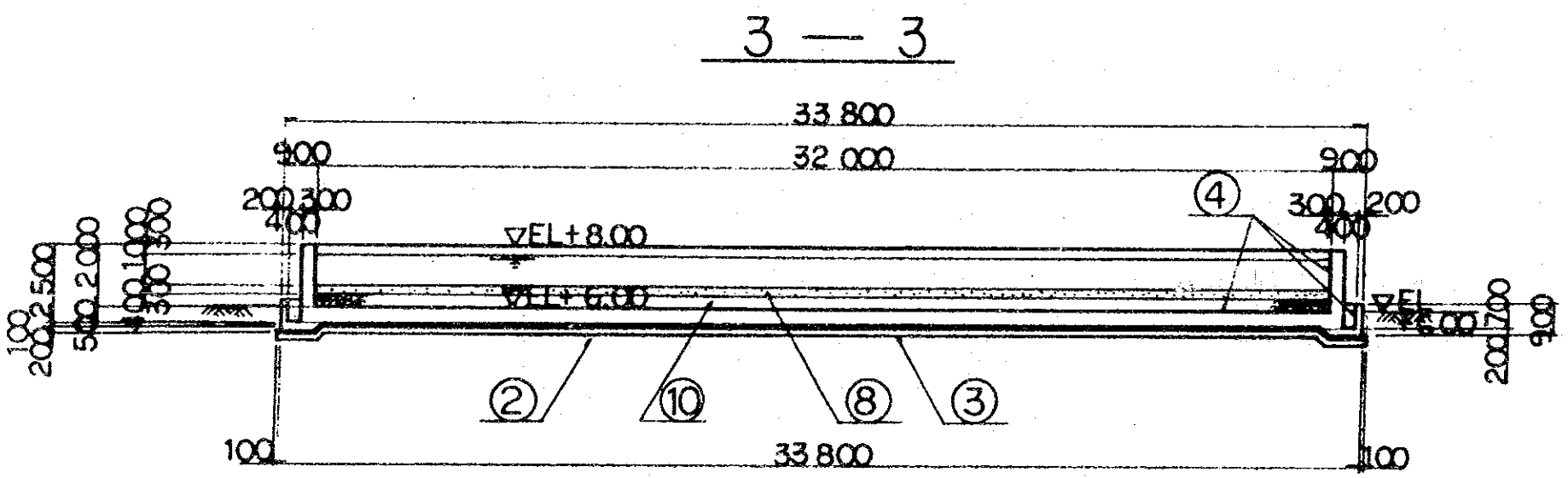
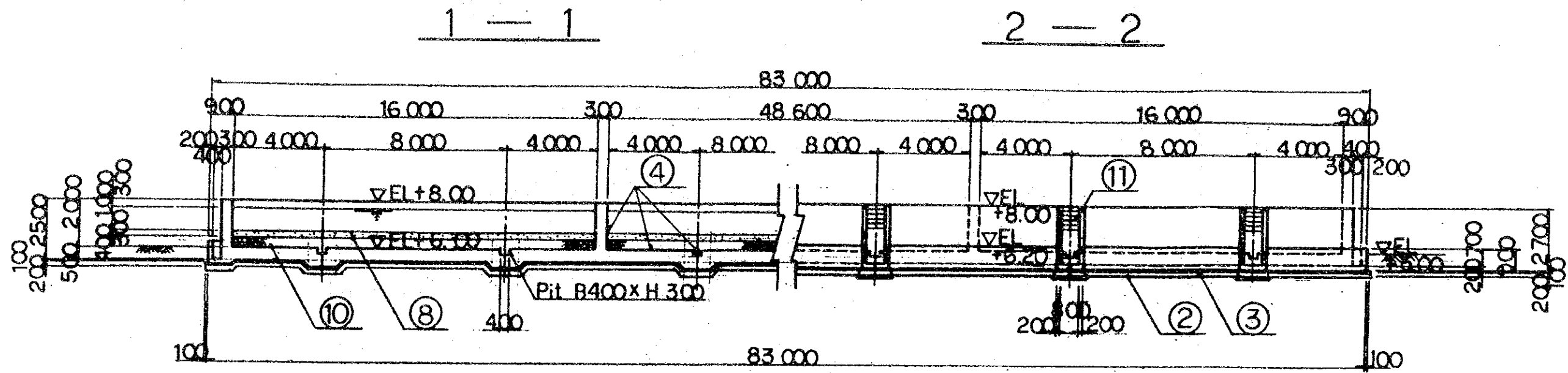


THE SOCIALIST REPUBLIC OF VIET NAM			
Transportation and Urban Public Works Service, HPC			
The Water Supply System in Gia Lam Area in Hanoi City			
Draw. Name	Sludge Treatment Basin (2)		
Sept. 1993	Scale	1/200	Draw No. 34
JAPAN INTERNATIONAL COOPERATION AGENCY			

PLAN

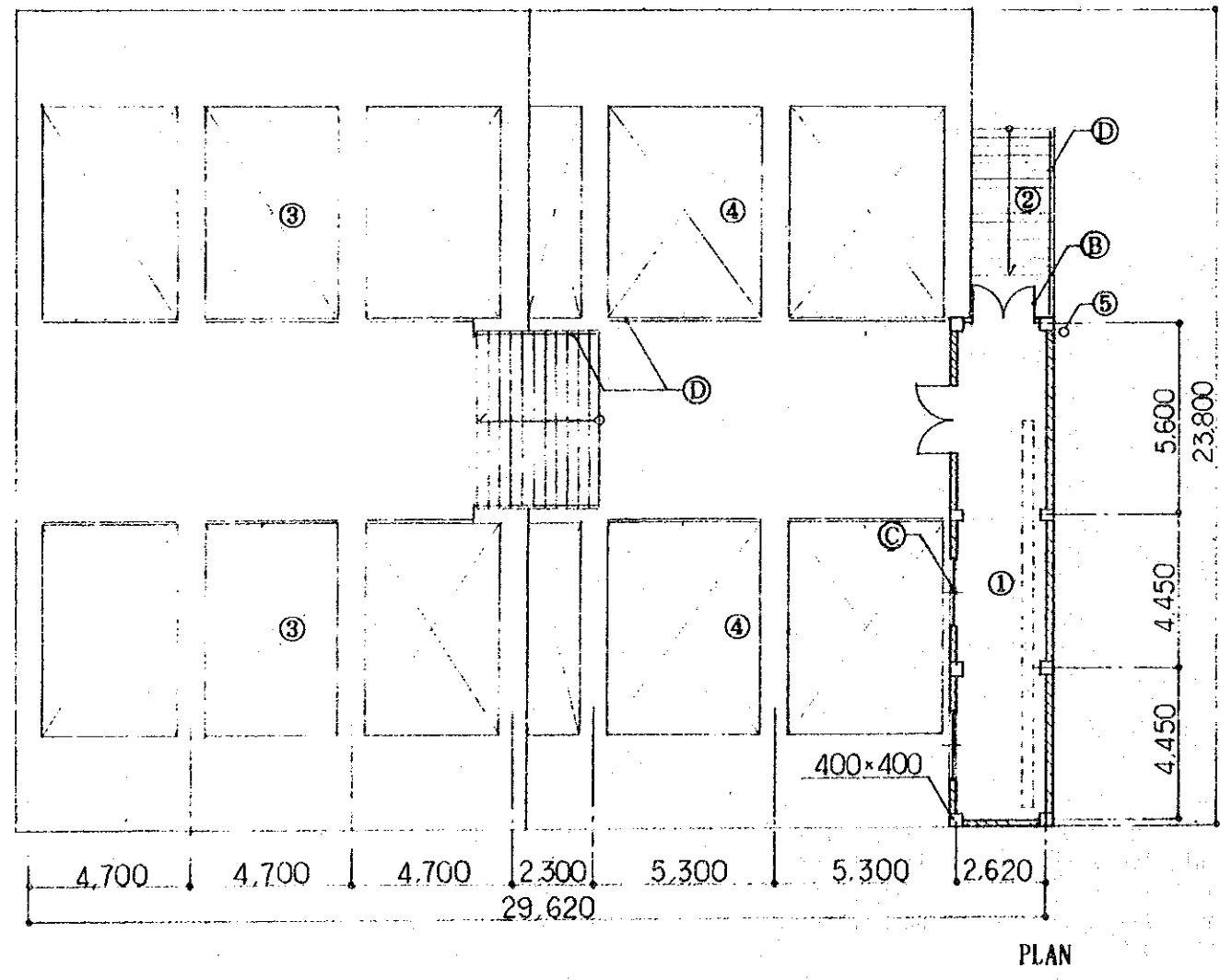
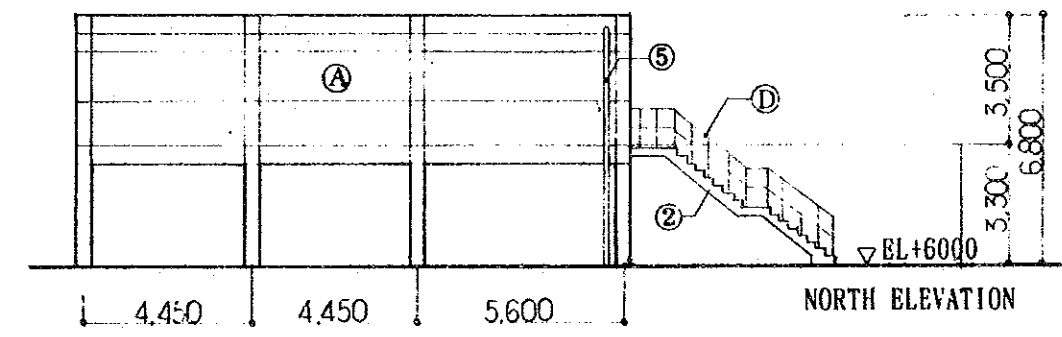
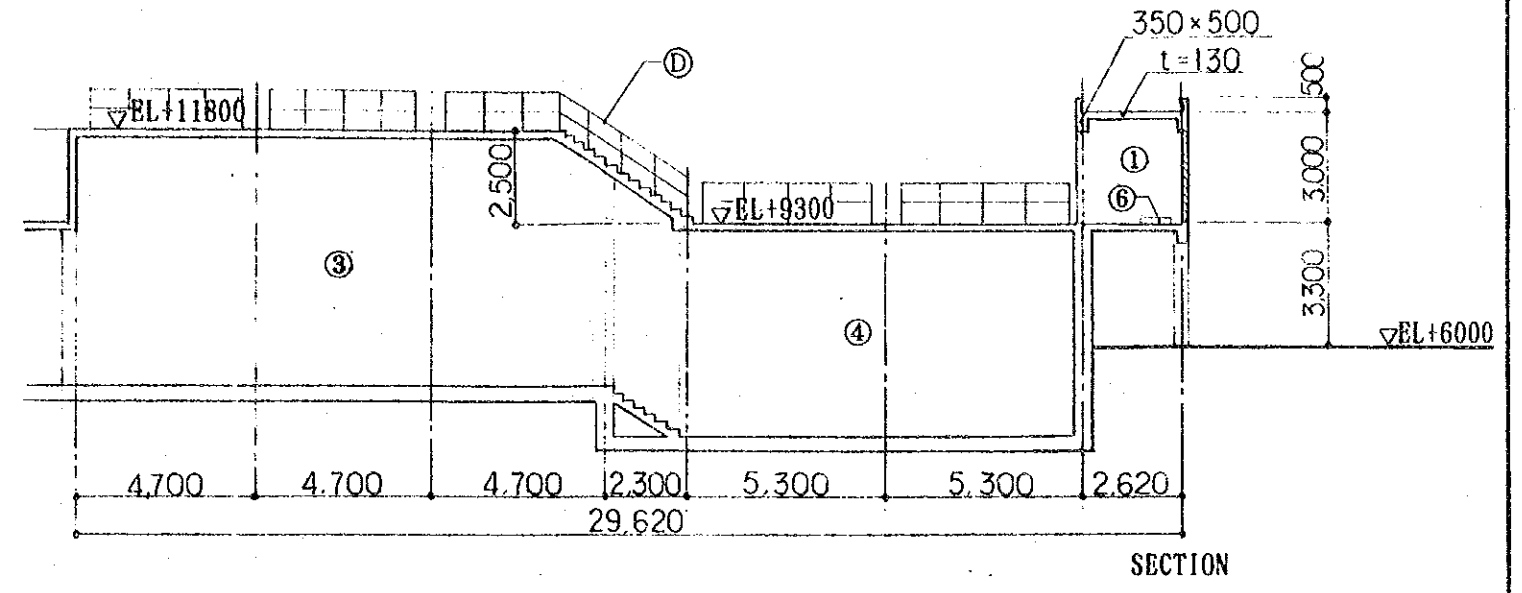
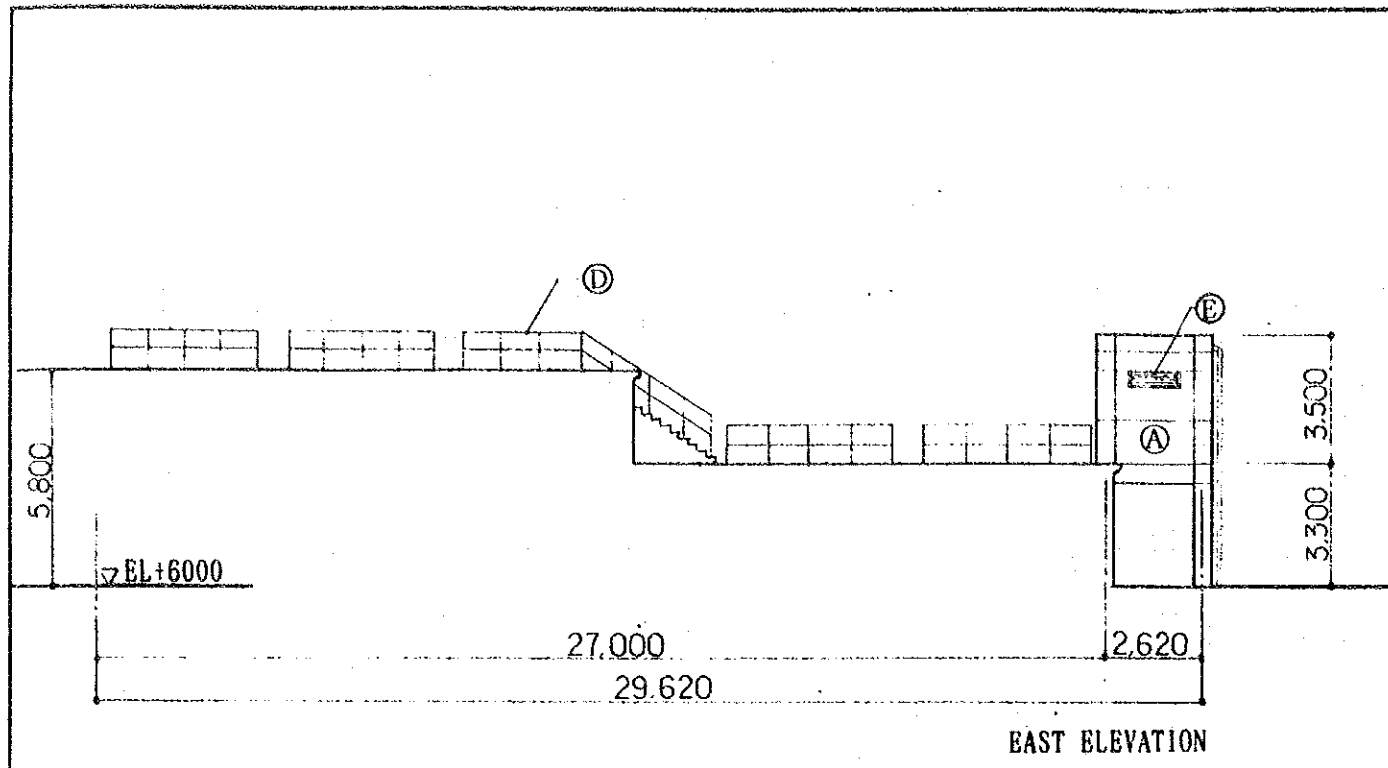


THE SOCIALIST REPUBLIC OF VIET NAM Transportation and Urban Public Works Service, HPC			
The Water Supply System in Gia Lam Area in Hanoi City			
Draw. Name		Sludge Drying Bed (1)	
Sept. 1993	Scale	1/200	Draw No. 35
JAPAN INTERNATIONAL COOPERATION AGENCY			



①	reinforced concrete pile
②	gravel
③	leveling concrete
④	waterproof coating
⑤	plain concrete
⑥	babble board
⑦	U-type flange
⑧	filter sand
⑨	filter concrete bed
⑩	filter gravel
⑪	flash board

THE SOCIALIST REPUBLIC OF VIET NAM
 Transportation and Urban Public Works Service, HPC
 The Water Supply System in Gia Lam Area in Hanoi City
 Draw. Name: Sludge Drying Bed (2)
 Sept. 1993 | Scale: 1/200 | Draw No.: 36
 JAPAN INTERNATIONAL COOPERATION AGENCY

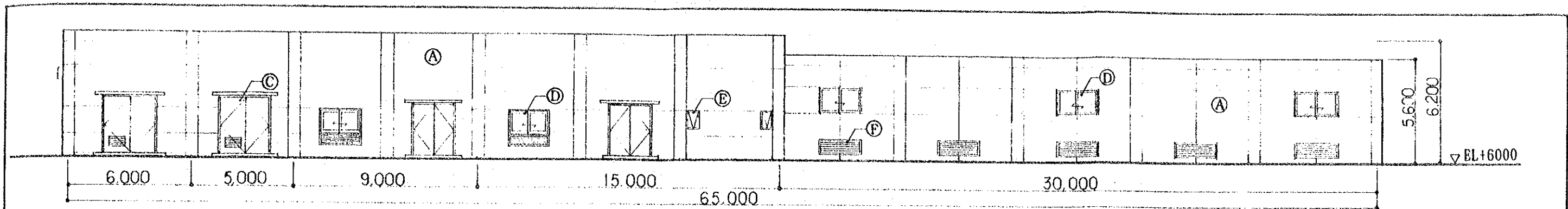


LEGEND

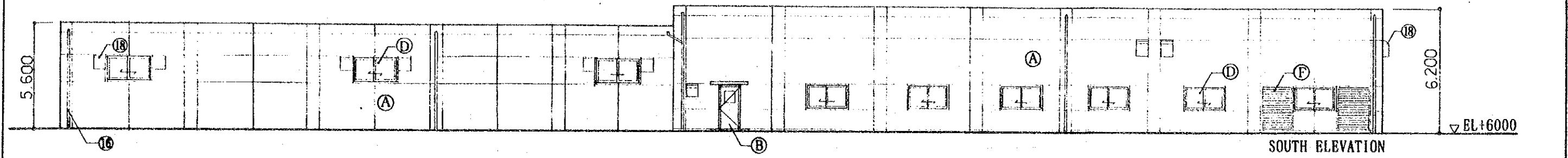
① Filter Control Room	(A) Brick + Plaster + Emulsion Paint
② Stairs	(B) Steel Double Swinging Doors
③ Iron Removal Equipment	(C) Aluminum Horizontal Sliding Window
④ Manganese Removal Equipment	(D) Steel Handrail
⑤ Downpipe	(E) Steel Grill
⑥ Machine Base	

* Two same buildings are required.

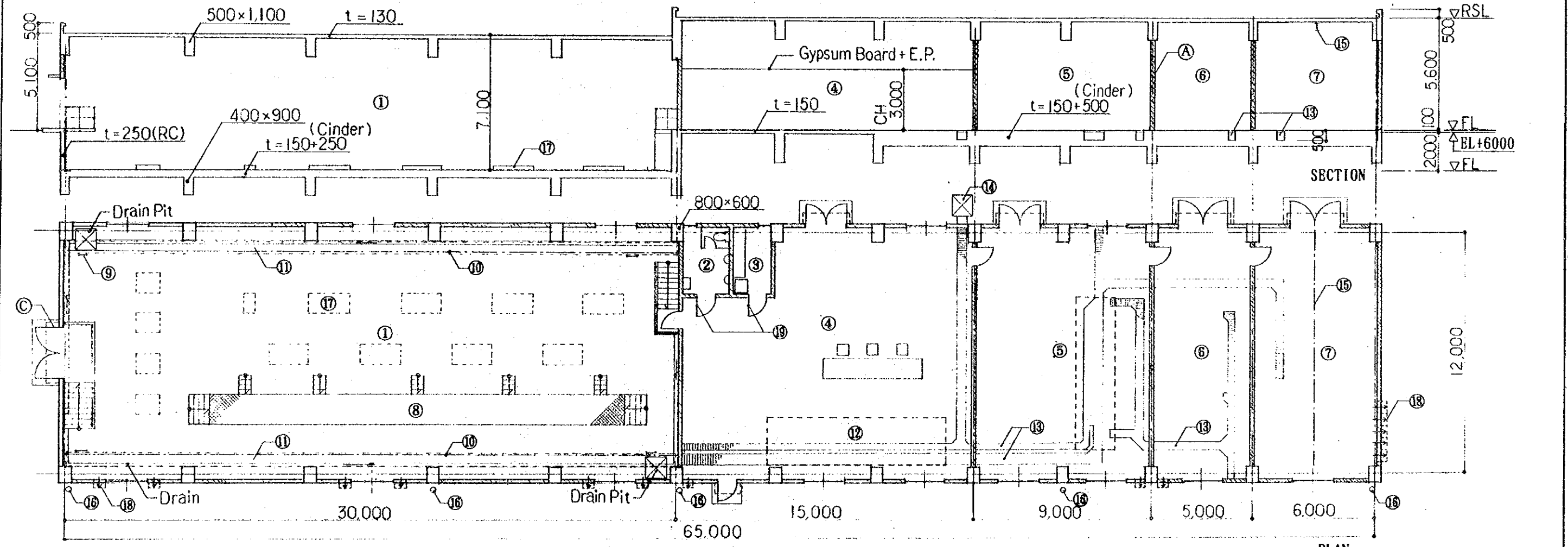
THE SOCIALIST REPUBLIC OF VIET NAM		
Transportation and Urban Public Works Service, HPC		
The Water Supply System in Gia Lam Area in Hanoi City		
Draw. Name	Filter Control House Architectural Drawings	
Sept. 1993	Scale 1/200	Draw No. 37
JAPAN INTERNATIONAL COOPERATION AGENCY		



NORTH ELEVATION



SOUTH ELEVATION

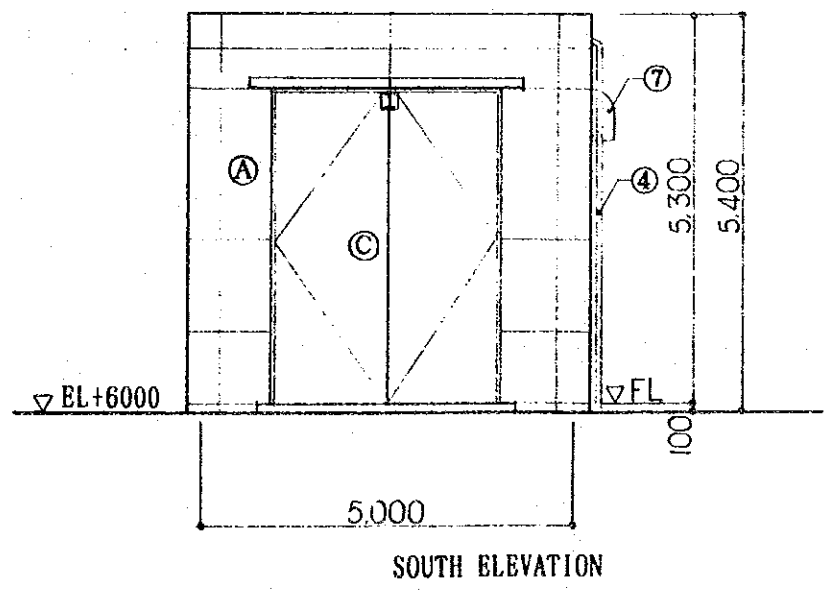
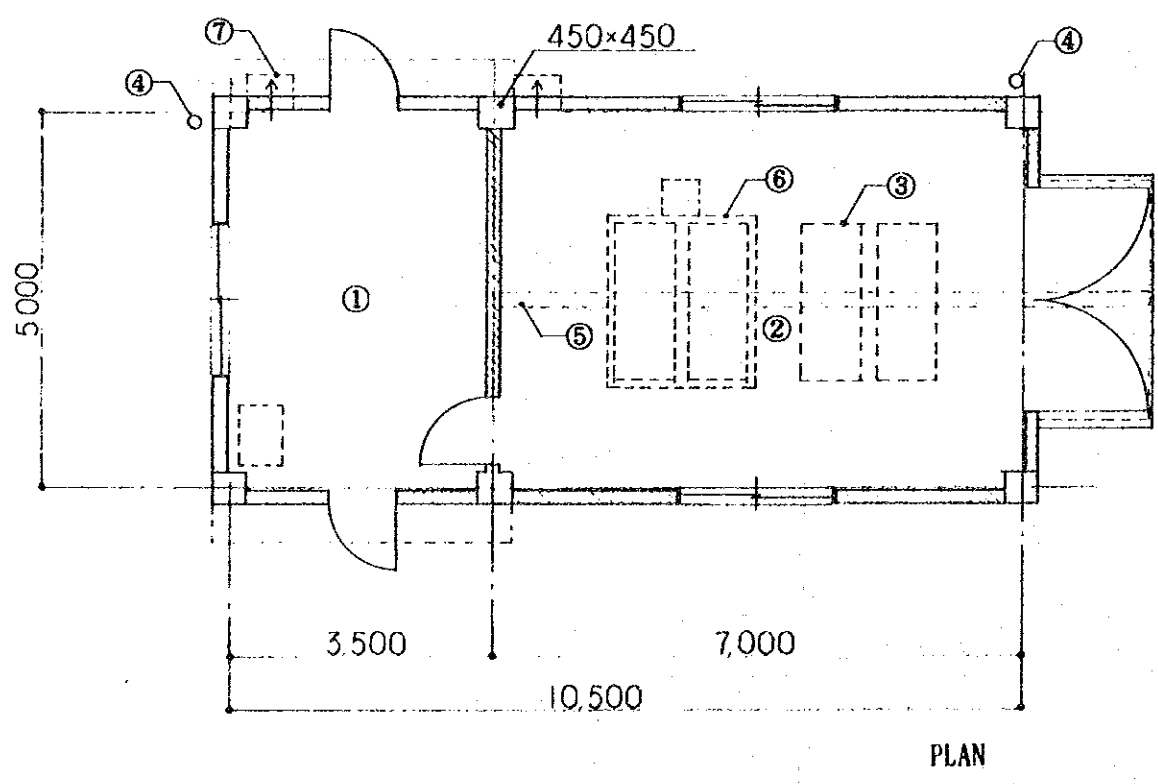
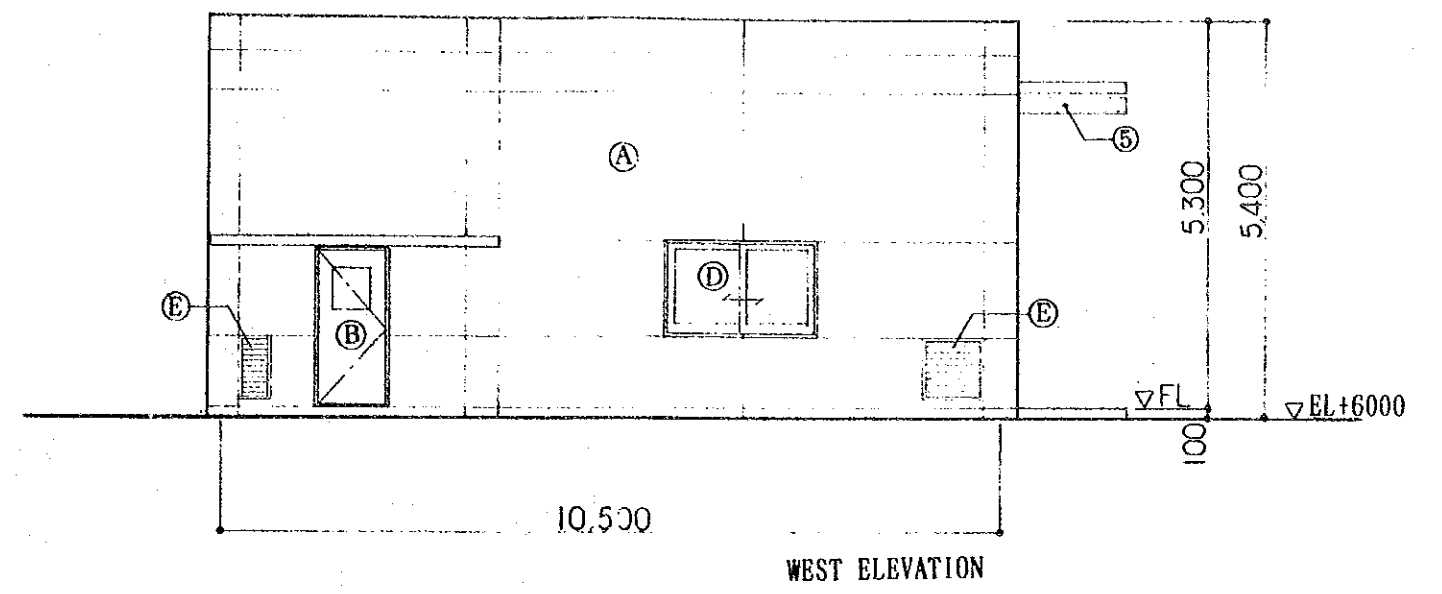
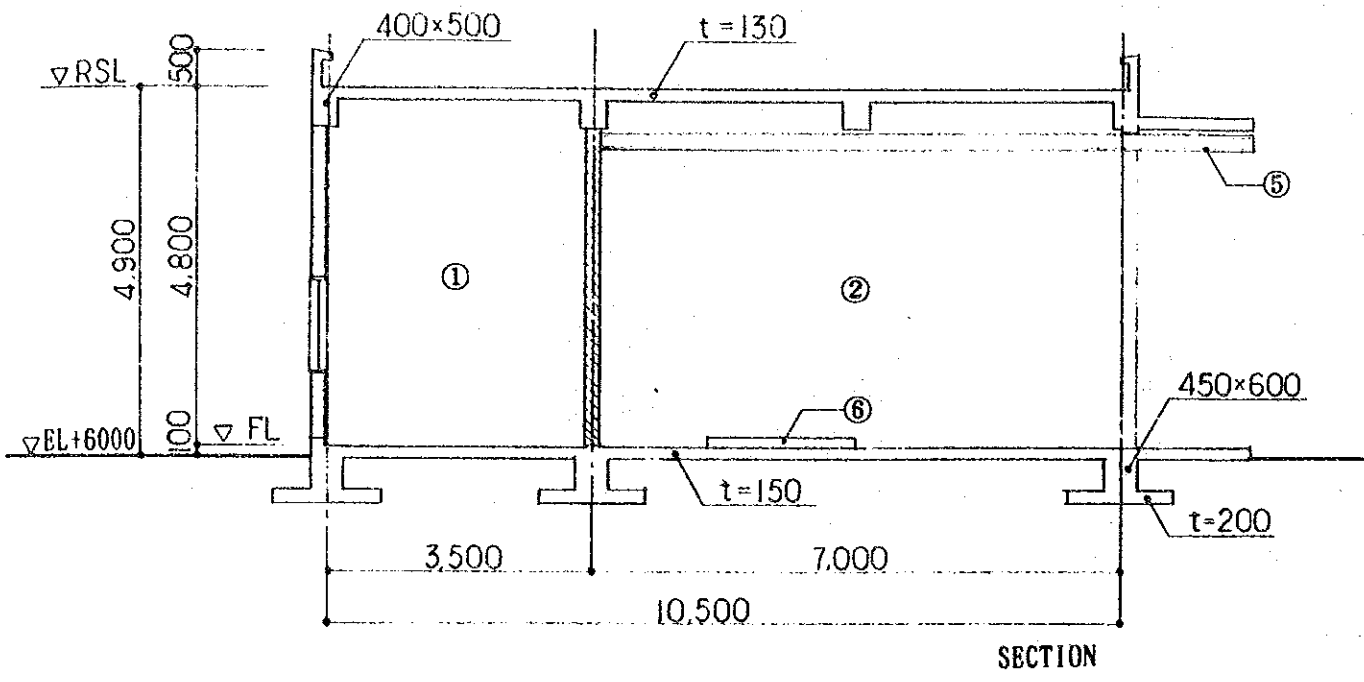


SECTION

PLAN

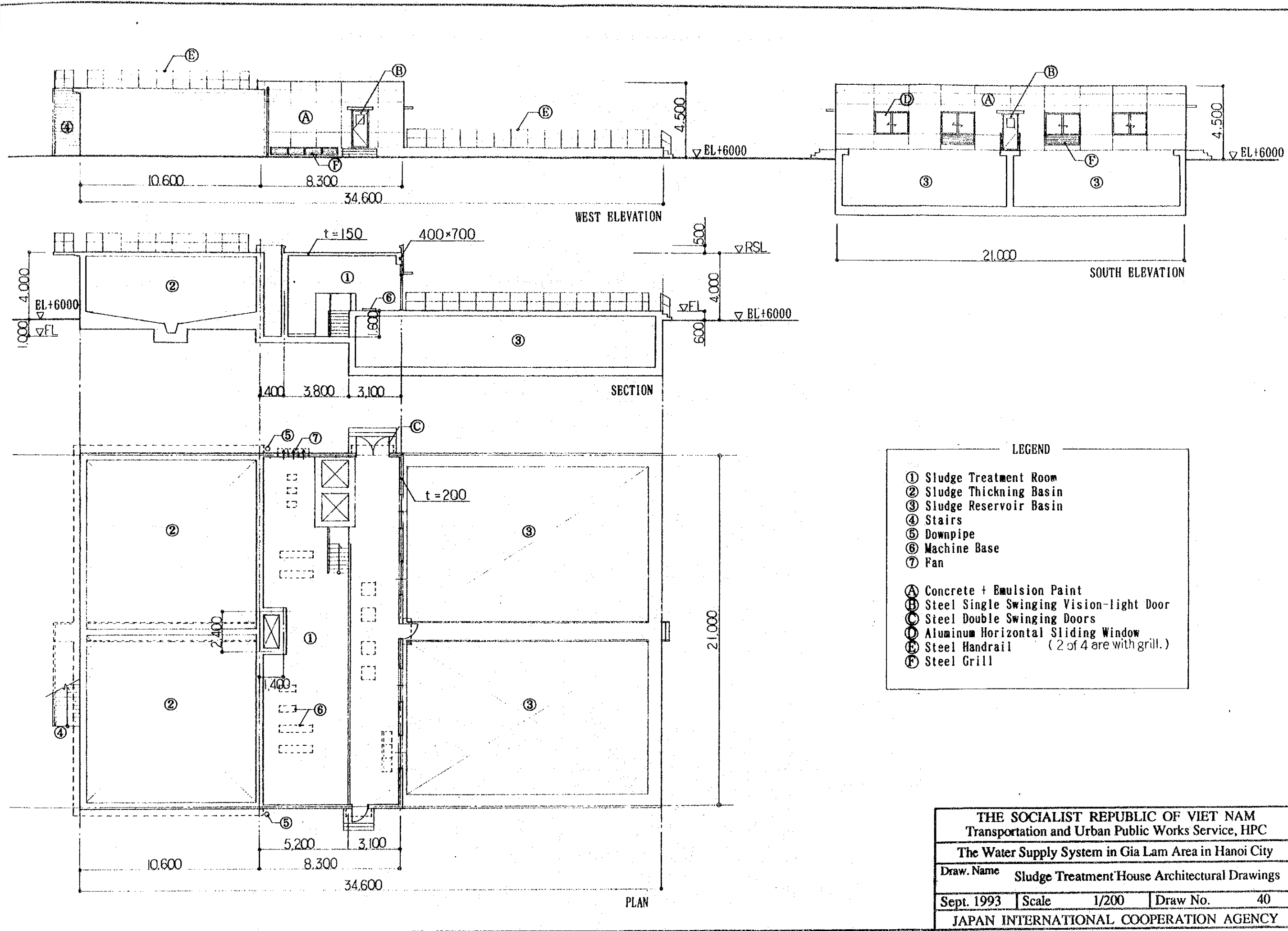
LEGEND			
① Distribution Pump Room	⑧ Deck	⑭ Cable Pit	Ⓐ Brick + Plaster + Emulsion Paint
② Toilet	⑨ Ladder	⑮ Hoist Rail	Ⓑ Steel Single Swinging Vision-light Door
③ Kitchen	⑩ Crane Guarder	⑯ Downpipe	Ⓒ Steel Double Swinging Doors
④ Control Room	⑪ Inspectors' Deck	⑰ Machine Base	Ⓓ Aluminum Horizontal Sliding Window (2 of all are with grill.)
⑤ Electrical Room	⑫ Control Panel	⑱ Fan	Ⓔ Aluminum Bottom Hinged Outswinging Window
⑥ Transformer Room	⑬ Cable Gutter (Covered with CR)	⑲ Aluminum Door (with Grill)	Ⓕ Steel Grill
⑦ D/G Room			

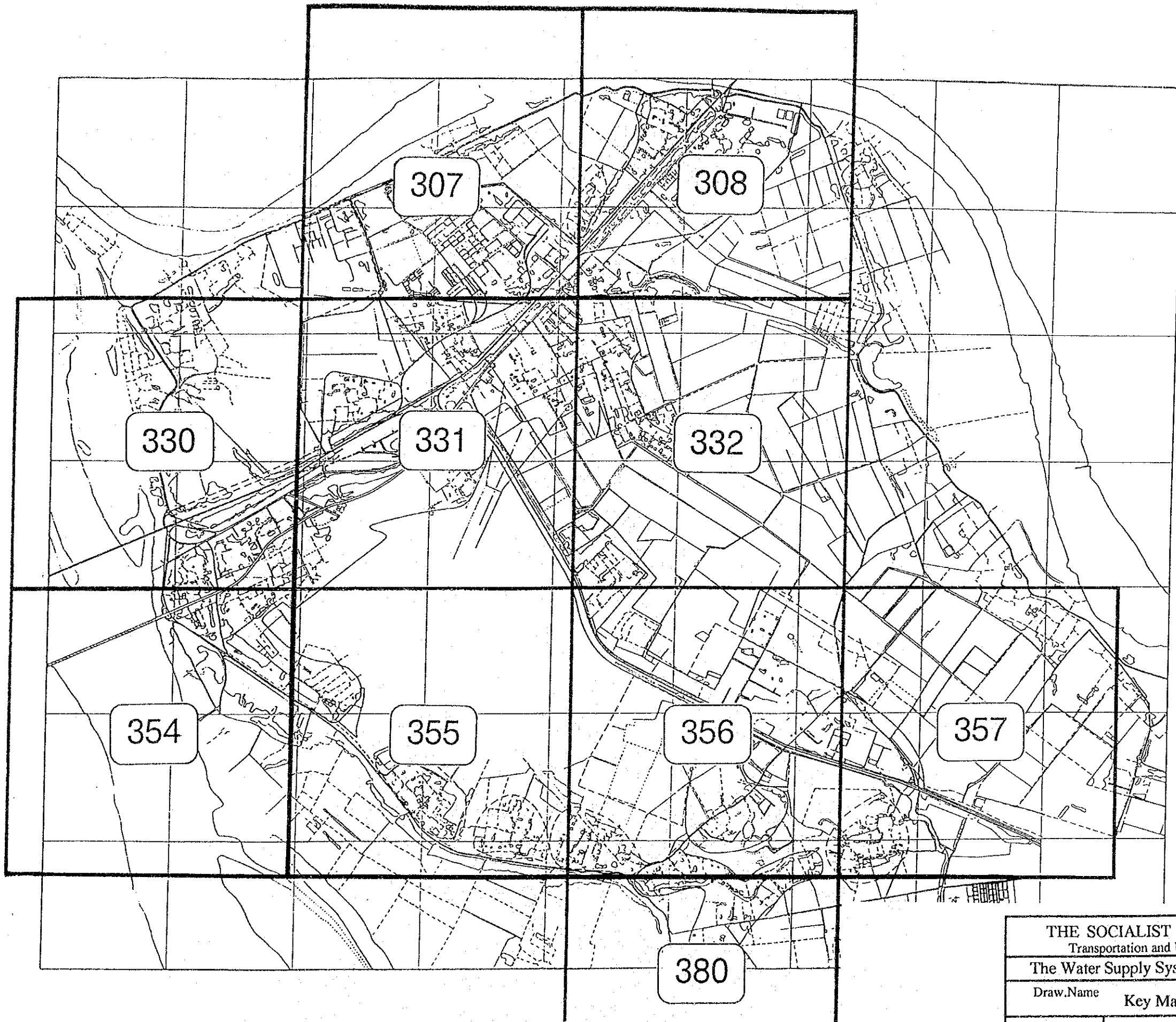
THE SOCIALIST REPUBLIC OF VIET NAM			
Transportation and Urban Public Works Service, HPC			
The Water Supply System in Gia Lam Area in Hanoi City			
Draw. Name: Distribution Pump House Architectural Drawings			
Sept. 1993	Scale	1/200	Draw No. 38
JAPAN INTERNATIONAL COOPERATION AGENCY			



- LEGEND
- ① Chlorination Room
 - ② Gas Cylinder Room
 - ③ Gas Cylinder
 - ④ Downpipe
 - ⑤ Hoist Rail
 - ⑥ Machine Base
 - ⑦ Fan
 - Ⓐ Brick + Plaster + Emulsion Paint
 - Ⓑ Steel Single Swinging Vision-light Door
 - Ⓒ Steel Double Swinging Doors
 - Ⓓ Aluminum Horizontal Sliding Window
 - Ⓔ Steel Grill

THE SOCIALIST REPUBLIC OF VIET NAM			
Transportation and Urban Public Works Service, HPC			
The Water Supply System in Gia Lam Area in Hanoi City			
Draw. Name	Chlorination House Architectural Drawings		
Sept. 1993	Scale	1/100	Draw No. 39
JAPAN INTERNATIONAL COOPERATION AGENCY			





THE SOCIALIST REPUBLIC OF VIET NAM		
Transportation and Urban Public Works Service, HPC		
The Water Supply System in Gia Lam Area in Hanoi City		
Draw.Name	Key Map for Distribution Pipelines	
Sept.1993	Scale /	Draw. No. 41
JAPAN INTERNATIONAL COOPERATION AGENCY		