

DOOR & WINDOW TABLE

Name	Type	Opening Size	Standard Dwg.	Number	Remark
C1	Aluminum alloy sliding window	1200x1800	# 91J604-TC1218	9	white aluminum alloy, 516+5 double-layer sandwich glass
C2	Aluminum alloy sliding window	1260x900	# 91J604-TC1209	1	white aluminum alloy
C3	Louver window	1200x500	# 91J604-TC1518	5	
C4	Fixed window	1200x1800	# 91J604-TC1218	8	white aluminum alloy window, 5 thick wire glass fire window
C5	Louver window	1500x600	# 91J604-TC1518	2	
M1	Aluminum alloy door	1500x3000	# 91J604-TC1209	2	white aluminum alloy, 816+8 double-layer sandwich glass
M2	Aluminum alloy door	1000x2700	# J652 C3-1206	1	
M3	Wooden door	900x2100	# J652 C3-1506	2	fire door, section ≥ 41 mm, mineral wool filling in leaf
M4	Wooden door	900x2100	J652 C3-1206	5	
M5	Wooden door	1500x2700	J652 C3-0909	2	fire door, section ≥ 41 mm, wrapped in galvanized iron
M6	Wooden door	1500x2100	# 91J604-GC1518	1	
M7	Steel door	2100x2700	J652 M3-2130	1	
M8	Steel door	1500x2700	JH(A)M13-1521	3	
M9	Steel door	1500x2700	# 91J604-PM1530	1	
1. Auto door closer shall be provided for fire door. 2. Fire door & window fire-resisting limit: ≥ 0.5 hour Negative pressure resistance: ≥ 1200 Pa.					

BUILDING CONSTRUCTION TABLE

Name	Floor	Interior Wall	Skirt	Ceiling	Roof
	Topping/Construction	Topping/Construction	Topping/Construction	Topping/Construction	
Generator Room	Terrazzo/Floor	Coating/Interior Wall	Terrazzo/ Skirt	Coating/Ceiling1	Roof1
Corridor	Terrazzo/Floor	Coating/Interior Wall	Terrazzo/ Skirt	Coating/Ceiling2	Roof1
Duty Room	Terrazzo/Floor	Coating/Interior Wall	Terrazzo/ Skirt	Coating/Ceiling2	Roof1
HV Switchboard Room	Terrazzo/Floor	Coating/Interior Wall	Terrazzo/ Skirt	Coating/Ceiling1	Roof1
CCR Room	Terrazzo/Floor	Coating/Interior Wall	Terrazzo/ Skirt	Coating/Ceiling2	Roof1
UPS Room	Terrazzo/Floor	Coating/Interior Wall	Terrazzo/ Skirt	Coating/Ceiling2	Roof1
Battery Room	Terrazzo/Floor	Coating/Interior Wall	Terrazzo/ Skirt	Coating/Ceiling1	Roof1
Transformer Room	Terrazzo/Floor	Coating/Interior Wall	Terrazzo/ Skirt	Coating/Ceiling1	Roof1
LV Switchboard Room	Terrazzo/Floor	Coating/Interior Wall	Terrazzo/ Skirt	Coating/Ceiling1	Roof1
Gas Cylinder Room	Terrazzo/Floor	Coating/Interior Wall	Terrazzo/ Skirt	Coating/Ceiling2	Roof1
Toilet	Brick/Floor 2	Brick/Interior Wall 2	Brick/ Skirt 2	Coating/Ceiling2	Roof1

DESIGN INTRODUCTION

1. This project is Secondary Lighting Substation of aviation lighting works of Shanghai Pudong International Airport, its general planar positions and outdoor elevations refer to General Drawing.

Floor area: 678.6m²

2. CO2 protective room enclosure structure:

Fire-resisting limit: not less than 0.5 hour,

Negative-pressure-resisting: not less than 1200Pa

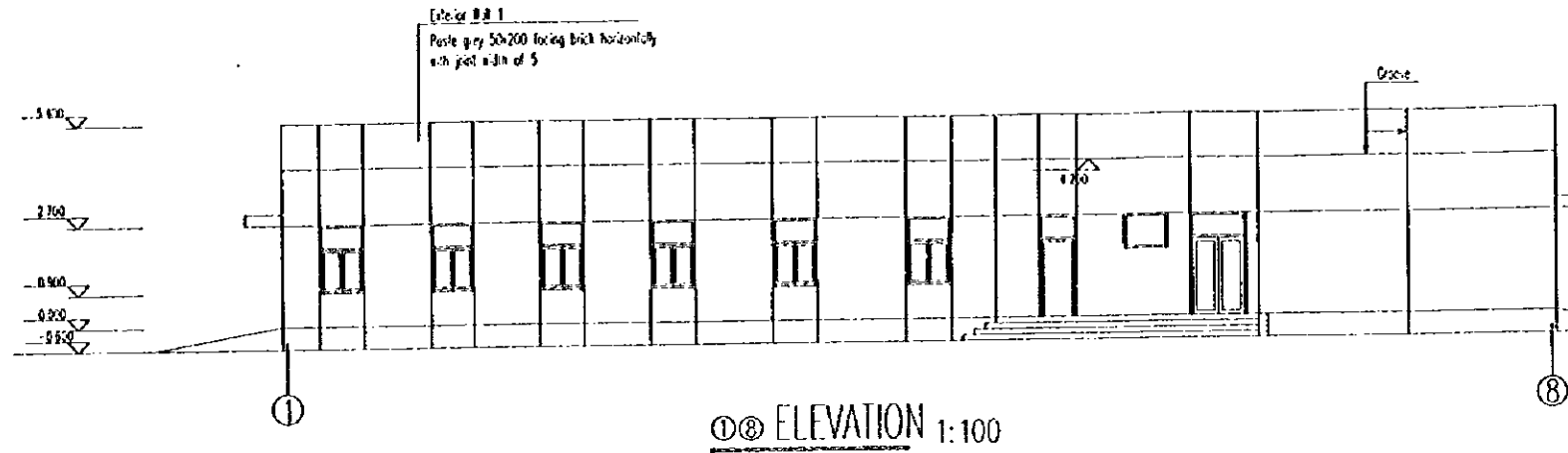
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
SECONDARY AIL SUBSTATION	
BUILDING CONSTRUCTION TABLE AND DOOR & WINDOW TABLE	
SCALE NONE	DWG2-A1
JAPAN INTERNATIONAL COOPERATION AGENCY	

No.	Topping	Construction
Floor 1	Terrozzo	1. 450x450x25 light green pre-cast terrozzo board, white cement pointing; 2. Spread plain cement (with appropriate water); 3. 30 thick 1:4 hard cement mortar binder course; 4. One coat of plain wet cement; 5. 110 thick C15 concrete; 6. 150 thick pebble, grouting M2.5 mixed mortar; 7. Soil tamping.
Floor 2	Floor Brick (with water-proof layer)	1. 10 thick floor brick pavement, dry cement pointing; 2. Spread plain cement (with appropriate water); 3. 30 thick 1:4 hard cement mortar binder course; 4. One coat of plain wet cement; 5. 60 thick (highest point) 1:2.4 fire stone concrete flashing from door to drain, lowest point: not less than 30 thick; 6. One-fell-two-asphalt water-proof layer, rolling up to 150 high all around, pasting coarse sand; 7. 150 thick pebble, grouting M2.5 mixed mortar; 8. Soil tamping.
Apron 1	Concrete	1. 50 thick C15 concrete 1:1 cement mortar, tamping & polishing; 2. 150 thick pebble, grouting M2.5 mixed mortar; 3. Soil tamping, pitch to outside 4%.
Step 1	Terrozzo	1. 450x450x25 light green pre-cast terrozzo board, white cement pointing; 2. Spread plain cement (with appropriate water); 3. 30 thick 1:4 hard cement mortar binder course; 4. One coat of plain wet cement; 5. 60 thick C15 concrete (thickness not include triangle part of tread), tread surface pitch to outside: 1%; 6. 150 thick pebble, grouting M2.5 mixed mortar; 7. Soil tamping (pitch as per engineering design).
Interior Wall 1	Coating	1. Paint interior wall coating; 2. 2 thick grummet finish coat; 3. 8 thick 1:3 lime putty mortar; 4. 13 thick 1:3 lime putty mortar priming.
Interior Wall 2	Facing Brick 3300 high	1. White cement pointing; 2. Paste 5 thick white glazed brick; 3. 8 thick 1:0.1:2.5 cement lime putty mortar binder course; 4. 12 thick 1:3 cement mortar priming, deburring or scratching.
Building Floor 1	Terrozzo	1. 450x450x25 light green pre-cast terrozzo board, white cement pointing; 2. Spread plain cement (with appropriate water); 3. 30 thick 1:4 hard cement mortar binder course; 4. One coat of plain wet cement; 5. 60 thick cement breeze bedcourse; 6. Cast-in-situ R.C. slab.

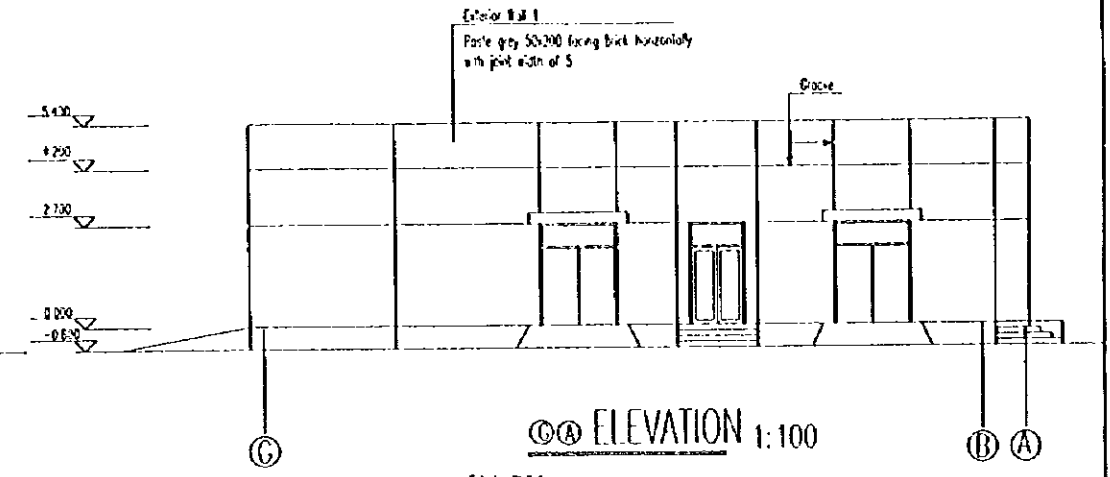
No.	Topping	Construction
Building floor 2	Floor brick (with water-proof layer)	1. 10 thick floor brick pavement, dry cement pointing; 2. Spread plain cement (with appropriate water); 3. 30 thick 1:4 hard cement mortar binder course; 4. One coat of plain wet cement; 5. 50 thick (highest point) 1:2.4 fire stone concrete flashing from door to drain, lowest point: not less than 30 thick; 6. Two-fell-three-asphalt water-proof layer, rolling up to 150 high all around, pasting coarse sand, 300 wide pavement at entrance; 7. 20 thick 1:3 cement mortar levelling course, brushed one coat of asphalt oil; 8. One coat of plain wet cement binder course; 9. Cast-in-situ R.C. slab.
Building floor 3	Plastic	1. 300 high light-green electrostatic-resisting movable floor; 2. 20 thick 1:2.5 cement mortar levelling course; 3. One coat of plain wet cement binder course; 4. Cast-in-situ R.C. slab.
Building floor 4	Terrozzo	1. 450x450x25 light-green pre-cast terrozzo board, white cement pointing; 2. Spread plain cement (with appropriate water); 3. 30 thick 1:4 hard cement mortar binder course.
Skirt 1	Terrozzo 120 high	1. White cement pointing; 2. Paste 15 thick black terrozzo board; 3. 12 thick 1:3 cement mortar.
Skirt 2	Floor brick 120 high	1. Dry cement pointing; 2. 10 thick floor brick pavement; 3. 8 thick 1:2.5 cement mortar binder course; 4. 12 thick 1:3 cement mortar priming, deburring or scratching.
Skirt 3	Plastic	1. 78 deep-green assembly-type plastic skirt; 2. Metal skirt cord to be fixed by plastic expanded clip.
Ceiling 1	Coating	1. Paint white scrubbing-resisting coating; 2. 2 thick grummet finish coat; 3. 6 thick 1:3:9 cement lime putty mortar; 4. 2 thick 1:0.5:1 cement lime putty mortar priming; 5. R.C. slab bottom to be brushed one coat of plain wet cement (mixing 107 glue with water 3%~5%).
Ceiling 2	Gypsum Board Ceiling	1. Paint white scrubbing-resisting coating; 2. Full claircolle making & levelling; 3. Brush one coat of emulsified oil; 4. Double-layer 900x3000x9 paper-faced gypsum board, to be fixed by self-attached bolt; 5. Small metal loth concave 19x25x0.5x3000 6. Small metal loth concave 19x25x0.5x900;

No.	Topping	Construction
		7. Medium-sized metal loth concave 19x50x0.5x900; 8. Big metal loth concave 45x15x0.1.2x1200; 9. 8 hanger bar two-way arrangement, 900--1200x12 expanded bolt fixing
Roof 1	Small Stone Protection Layer (without persons)	1. Pave one layer of binded peestone of 3~6 in portical size; 2. Ternary ethylene-propylene rubber rolled material water-proof layer; 3. 20 thick 1:2.5 cement mortar levelling course; 4. Pave 1.8 cement perlite thermal insulation layer, lowest point: 30, 2% pitch, vibrating & tamping, polishing (exhaust channel, PVC exhaust dust to be provided with vent spacing of not more than 6 ms as per Codes); 5. 20 thick 1:3 cement mortar levelling course; 6. R.C.slab.
Roof 2	Cement brick (with persons)	1. 20 thick cement brick; 2. Spread plain cement (with appropriate water); 3. 20 thick 1:2.5 hard cement mortar protection layer; 4. Ternary ethylene-propylene rubber rolled material water-proof layer; 5. 20 thick 1:2.5 cement mortar levelling course; 6. Pave 1.8 cement perlite thermal insulation layer, lowest point: 30, 2% pitch, vibrating & tamping, polishing (exhaust channel, PVC exhaust dust to be provided with vent spacing of not more than 6 ms as per Codes); 7. 20 thick 1:3 cement mortar levelling course; 8. R.C.slab.
Exterior Wall 1	Facing Brick	1. 1:1 cement mortar (fine sand) pointing; 2. Paste 10 thick facing brick (as pasting as brushing one coat of YJ-302 type concrete interface treatment agent to increase binding force); 3. 12 thick 1:0.2:2 cement lime putty mortar binder course; 4. Brush one coat of plain wet cement (mixing 107 glue with water 3%~5%); 5. 8 thick 1:3 cement mortar priming, deburring or scratching; 6. Brush one coat of YJ-302 type concrete interface treatment agent (as brushing as plastering).
Ramp 1	Concrete	1. 20 thick 1:2 cement mortar mopping, 15 wide emery anti-slip strip, spacing 80, convex to ramp surface; 2. One coat of plain wet cement binder course; 3. 50 thick C15 concrete; 4. 300 thick pebble, grouting M2.5 mixed mortar; 5. Soil tamping (levelling as per plan & section dimensions).
Painting 1	Paint	1. Polishing; 2. Three coats of acrylic acid; 3. One coat of alcohol acid coating; 4. One coat of full claircolle making; 5. One of lubricating powder.
Painting 3		1. Two coats of antirusting point.
Painting 2		1. Two coats of dark-green mixed paint; 2. Claircolle making; 3. One coat of antirusting point.

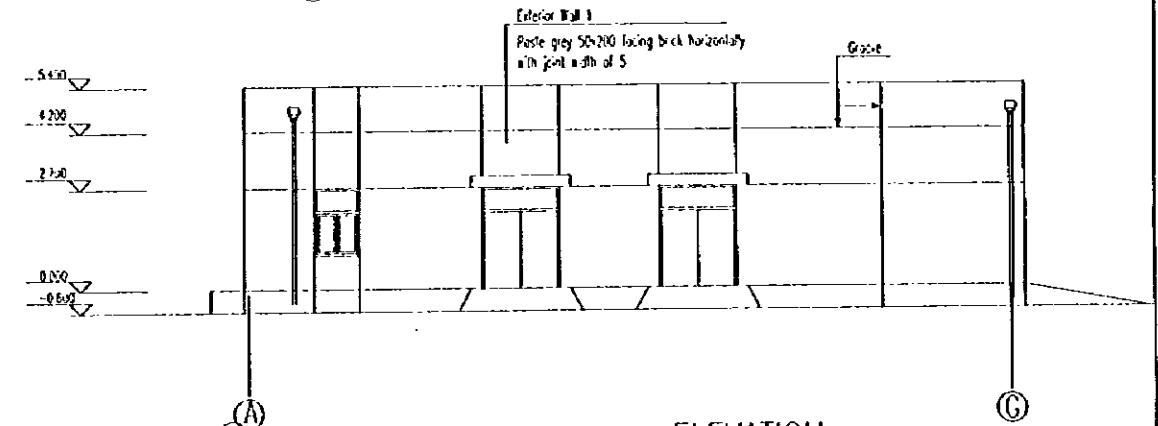
PEOPLE'S REPUBLIC OF CHINA		
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997	
SECONDARY AIR SUBSTATION		
FINISHING TECHNICAL SPECIFICATIONS		
SCALE	NON SCALE	DKC2-A'2
JAPAN INTERNATIONAL COOPERATION AGENCY		



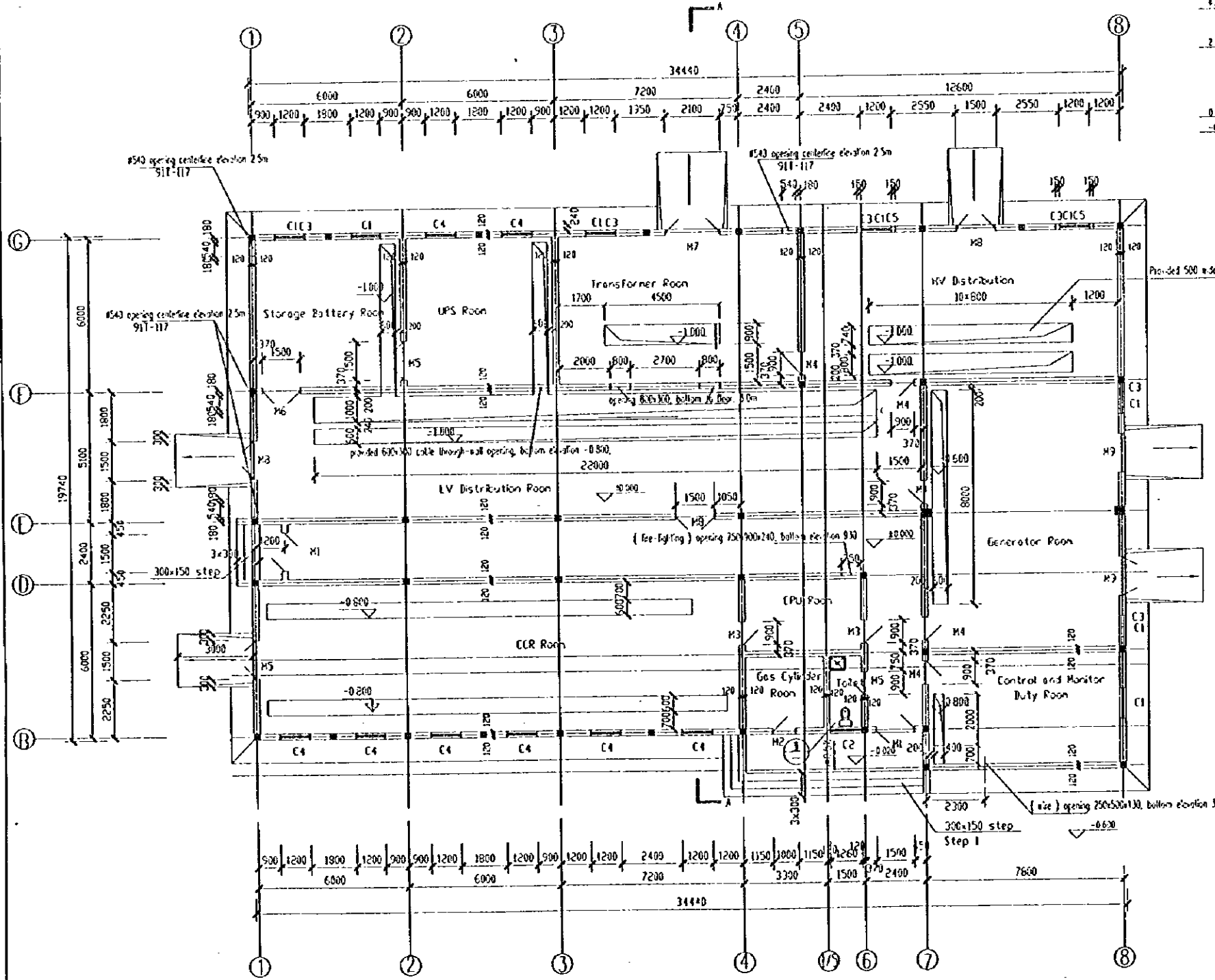
①⑧ ELEVATION 1:100



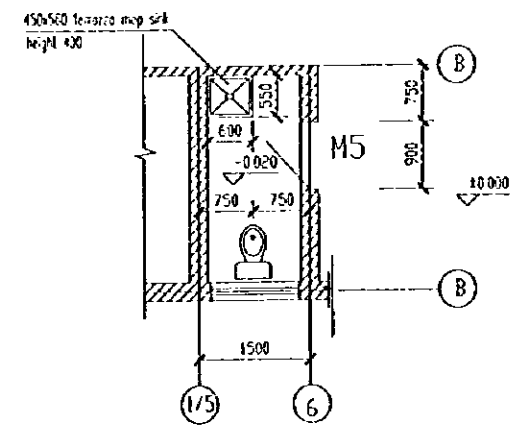
⑥A ELEVATION 1:100



⑥C ELEVATION 1:100

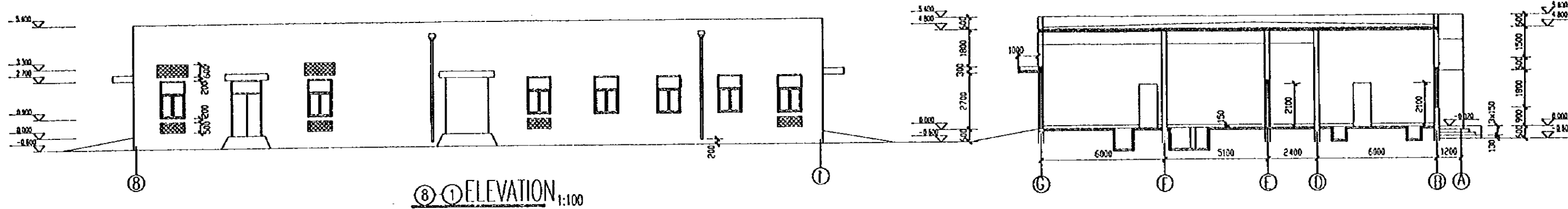


PLAN 1:100



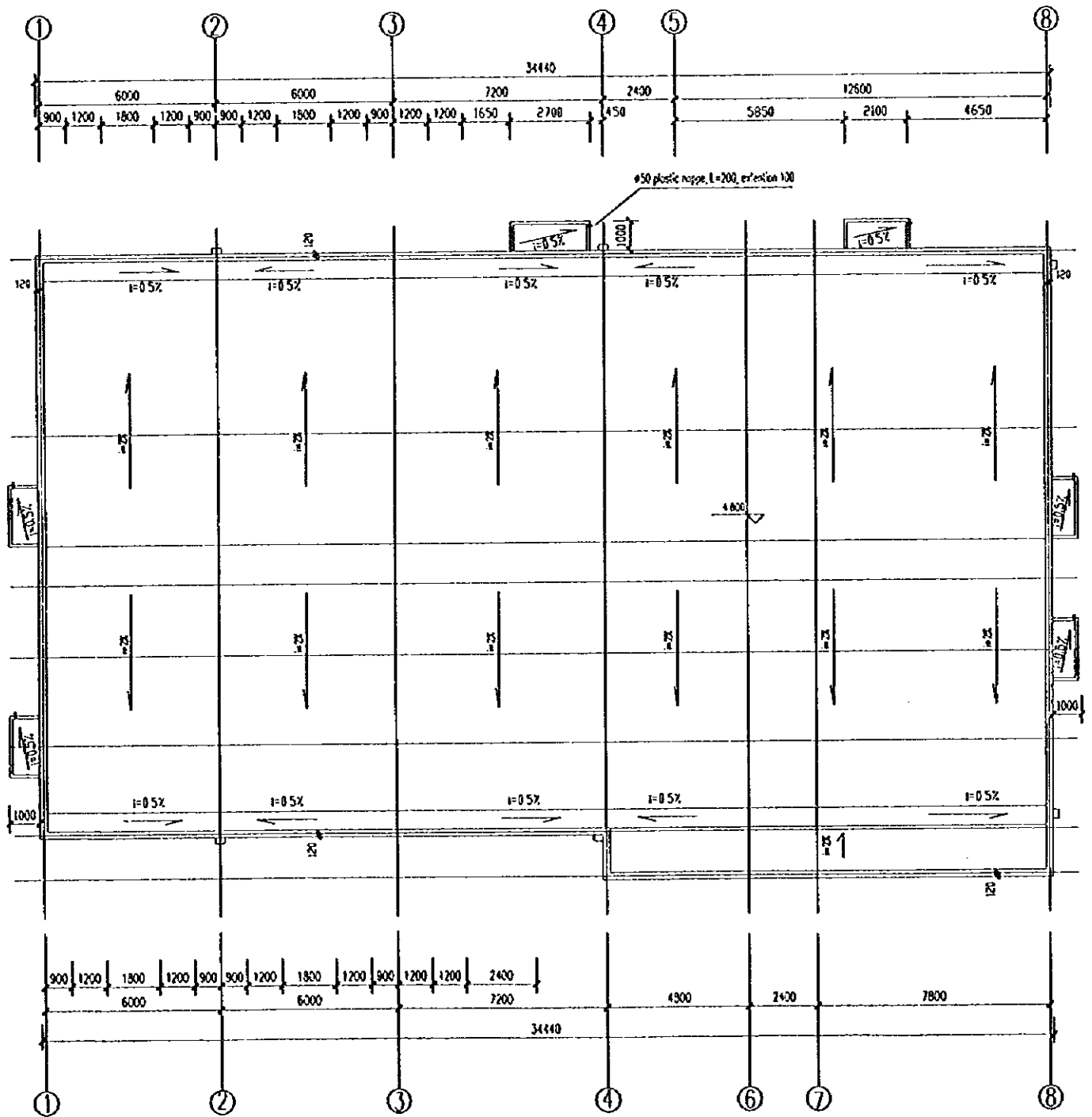
① DETAILED DRAWING FOR TOILET 1:50

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SHANGHAI PUDDING INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
SECONDARY AIR SUBSTATION	
PLAN, 1-8 ELEVATION, A-C ELEVATION, G-A ELEVATION AND PLAN DETAIL	
SCALE	DWS2-A'3
JAPAN INTERNATIONAL COOPERATION AGENCY	



8-1 ELEVATION 1:100

A-A SECTION 1:100

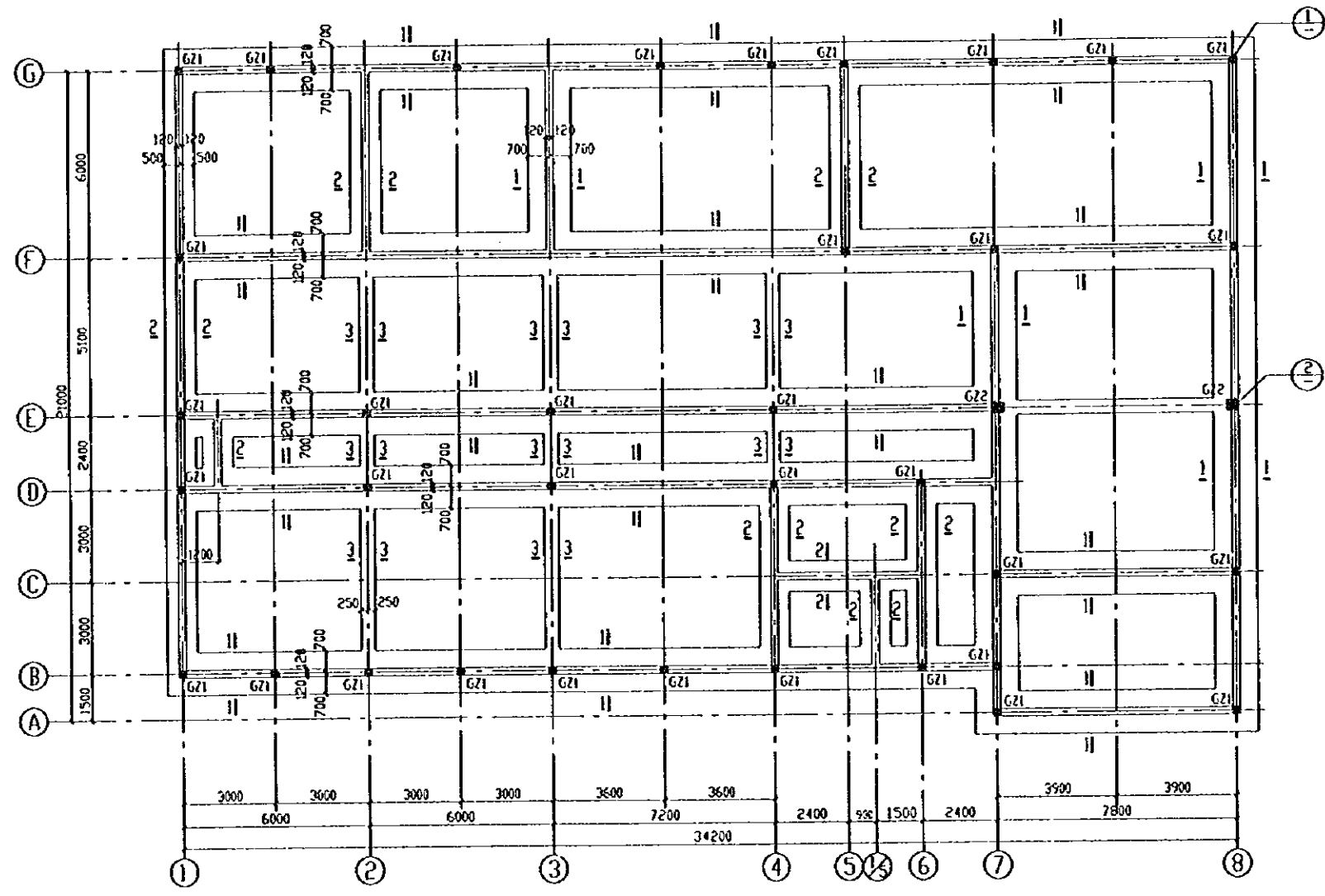


ROOF PLAN 1:100

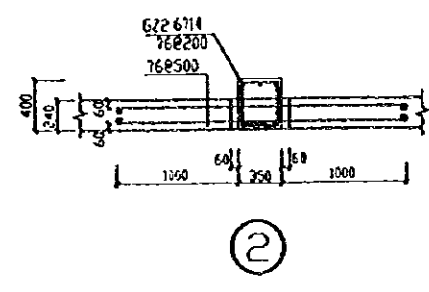
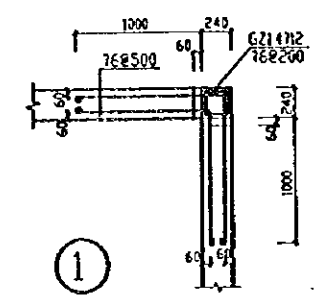
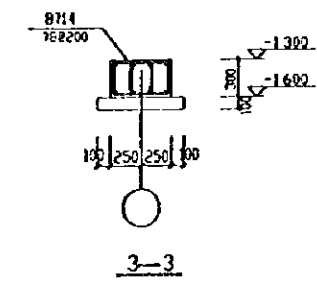
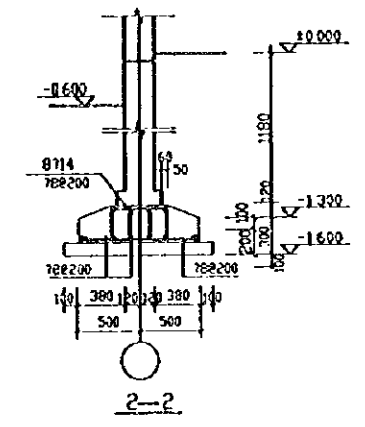
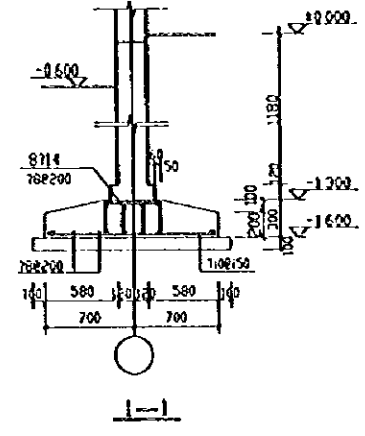
Note

Exterior Wall 1 Poste grey 50x200 facing brick horizontally with joint width of 5

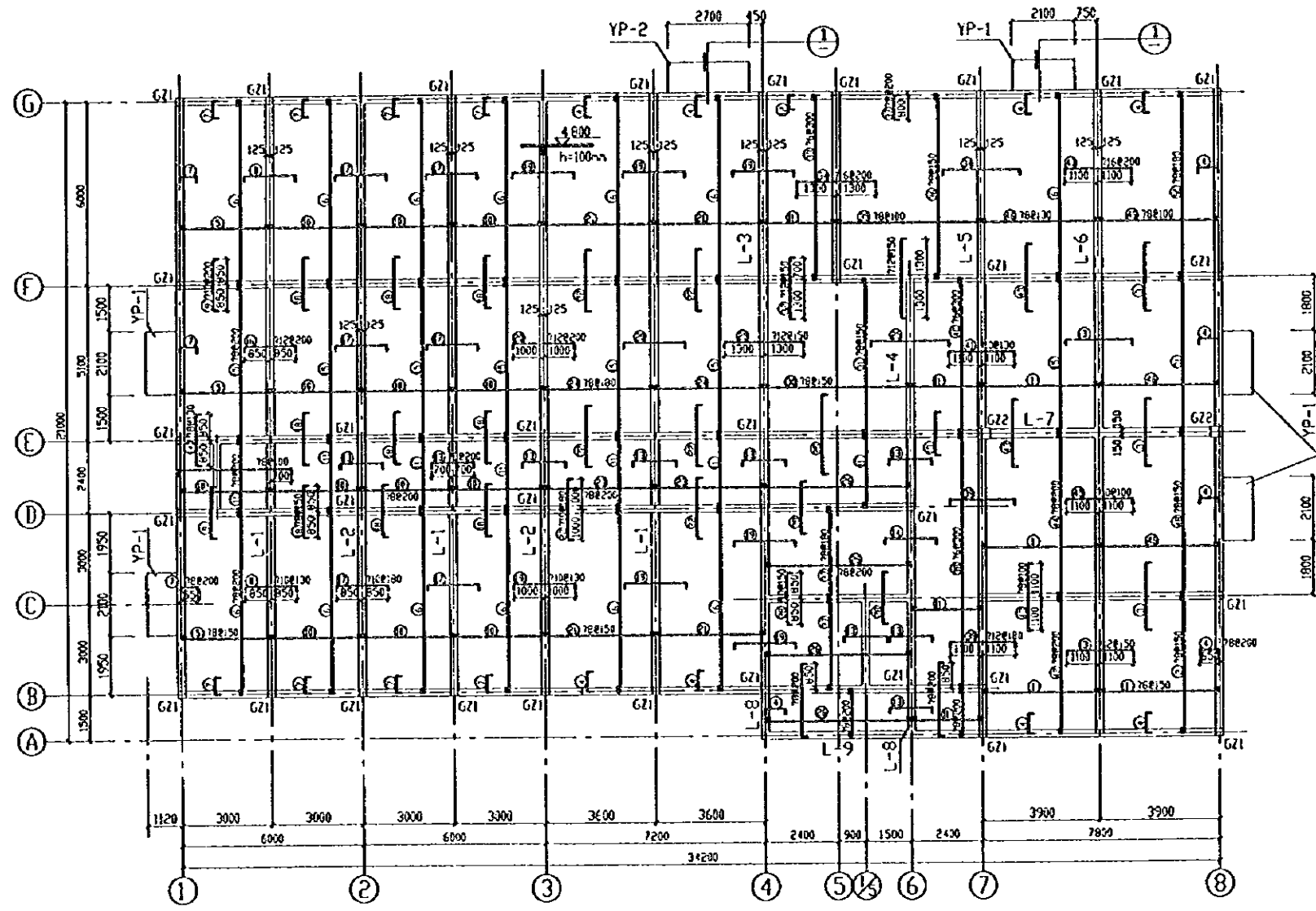
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SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
SECONDARY AIL SUBSTATION	
ROOF PLAN, 8-1 ELEVATION AND A-A SECTION	
SCALE	DWG2-A/4
JAPAN INTERNATIONAL COOPERATION AGENCY	



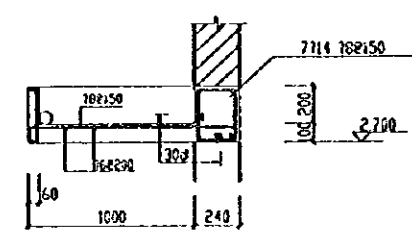
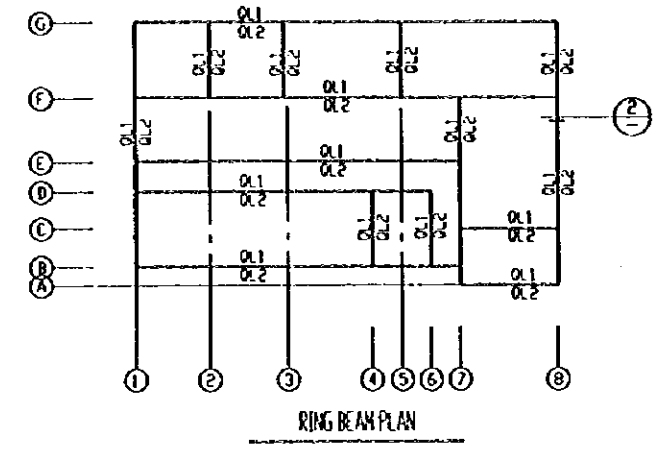
FOUNDATION PLAN



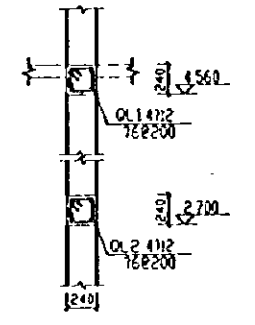
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SHANDU PUODONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
SECONDARY AFL SUBSTATION	
FOUNDATION PLAN	
SCALE	DWG-S1
JAPAN INTERNATIONAL COOPERATION AGENCY	



ROOF REINFORCEMENT PLAN

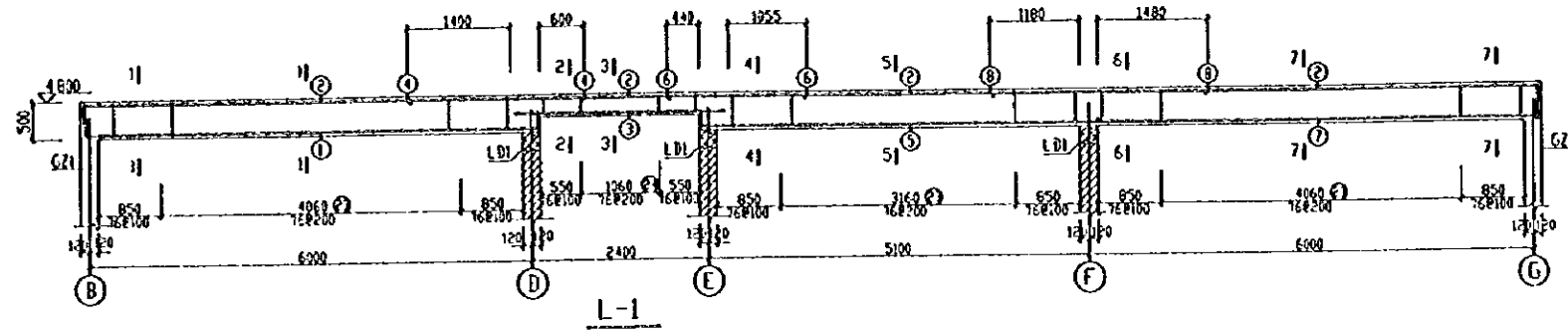


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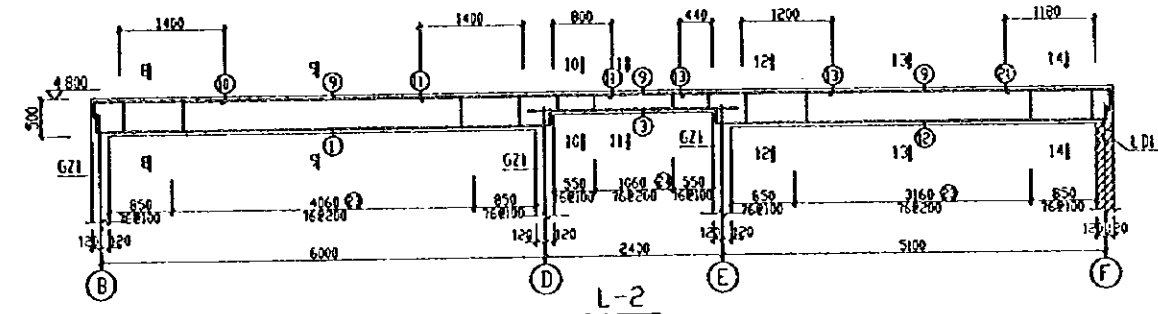


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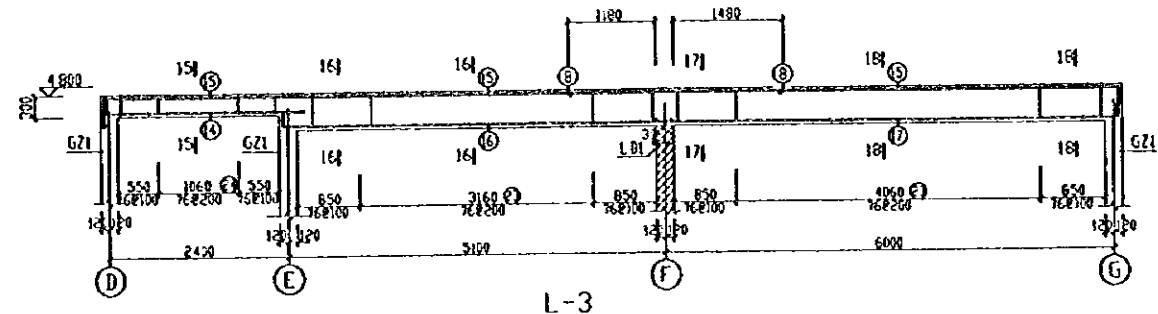
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SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT		SEPTEMBER 1997
SECONDARY A/E SUBSTATION		
ROOF REINFORCEMENT DETAILS		
SCALE	NON SCALE	DWG2-S2
JAPAN INTERNATIONAL COOPERATION AGENCY		



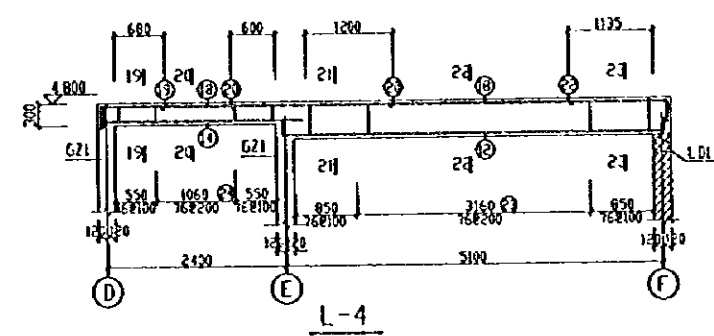
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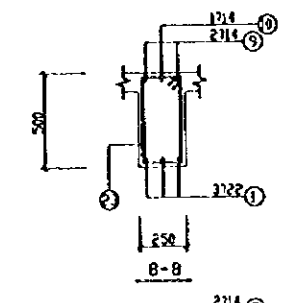
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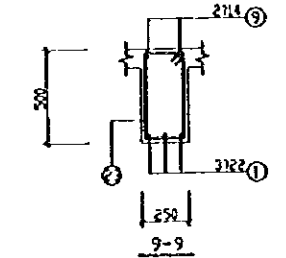
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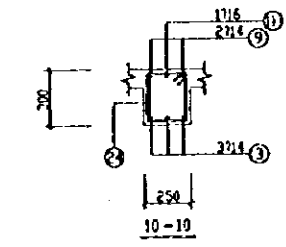
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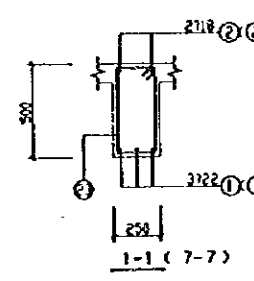
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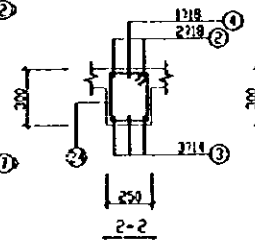
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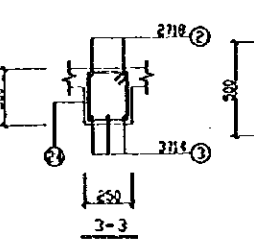
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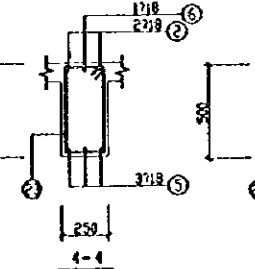
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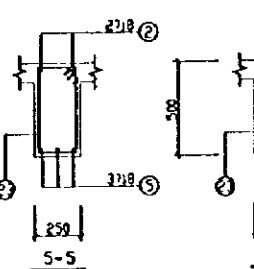
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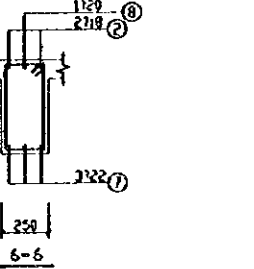
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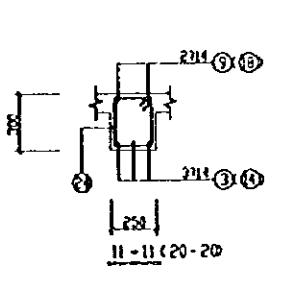
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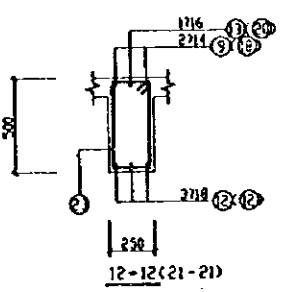
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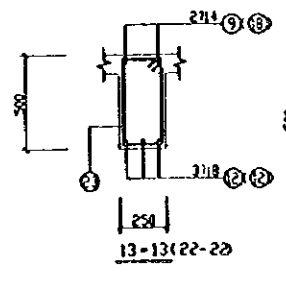
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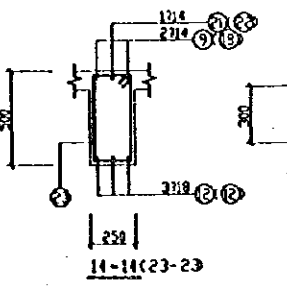
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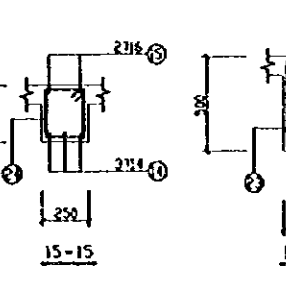
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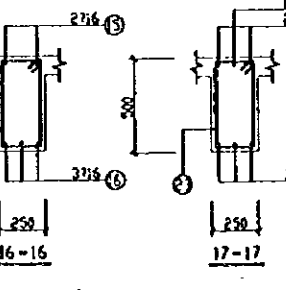
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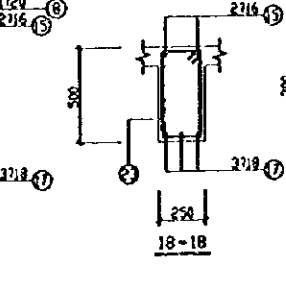
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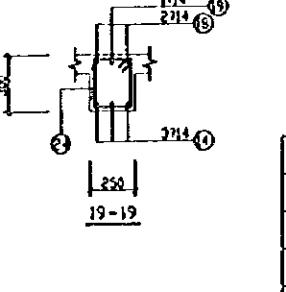
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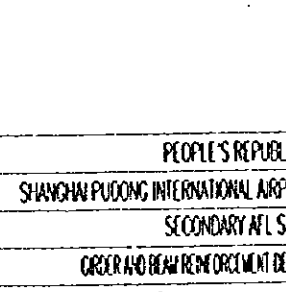
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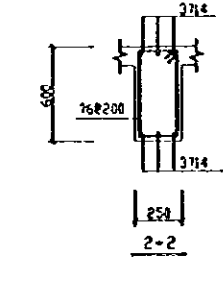
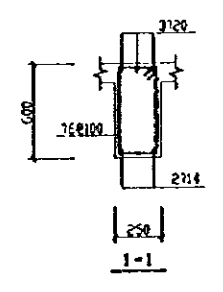
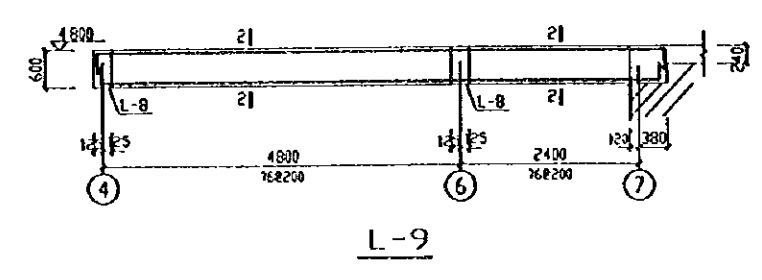
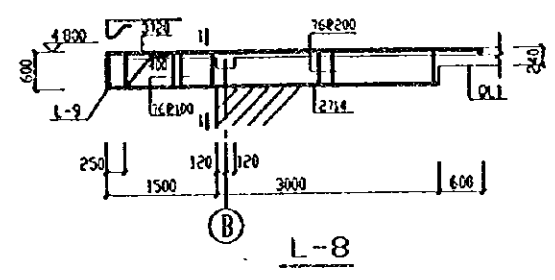
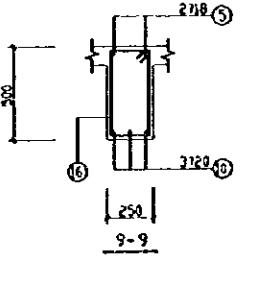
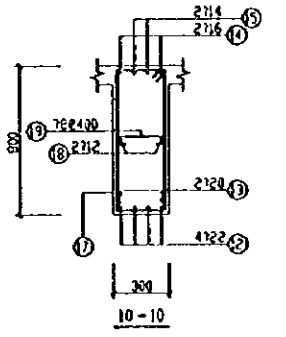
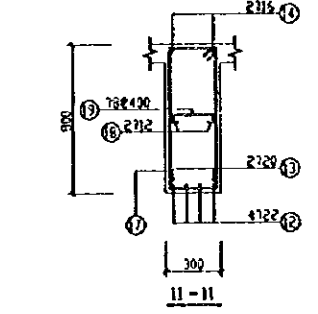
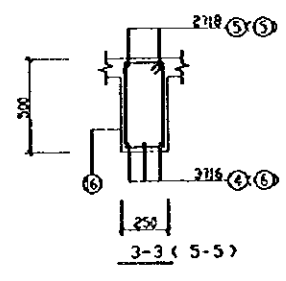
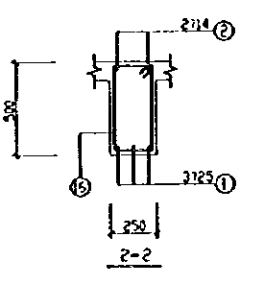
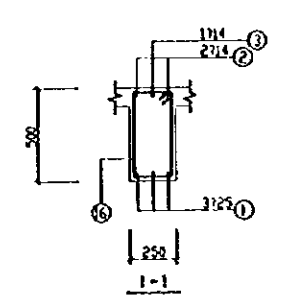
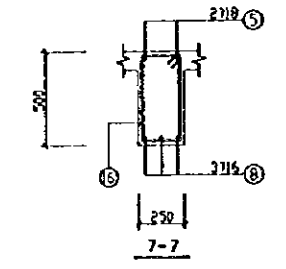
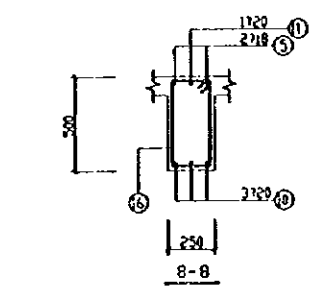
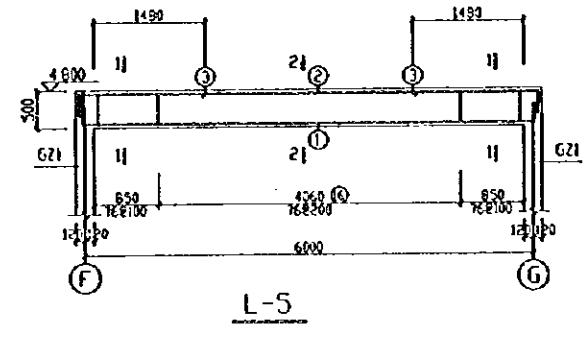
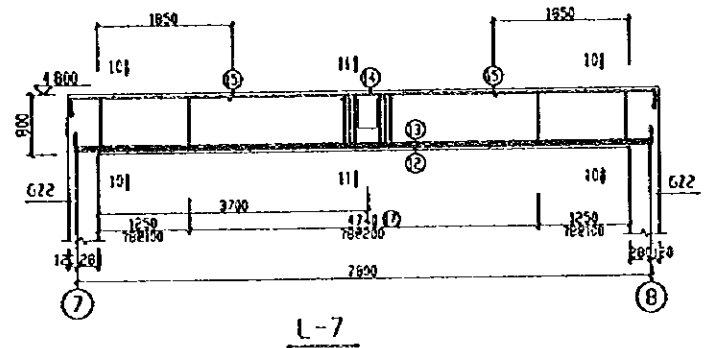
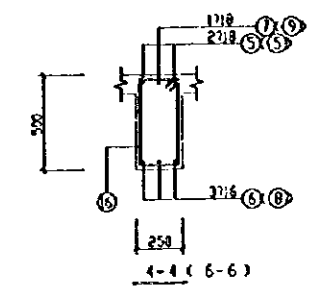
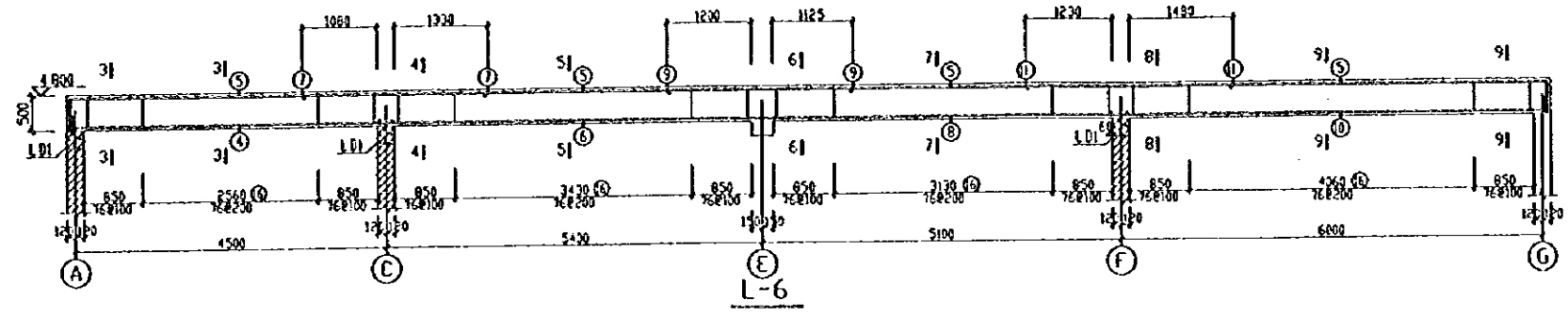


19-19

BEAM REINFORCING STEEL TABLE

#	Steel Size	Spec. No.	Length	Number	Weight
1	6100	122	6440	6	
2	19680	718	20660	2	
3	2650	714	2850	6	
4	2400	718	2400	1	
5	5400	718	5500	3	
6	1890	718	1890	1	
7	6365	122	6580	3	
8	2900	120	2900	2	
9	13680	714	14200	2	
10	1720	714	1900	1	
11	2600	716	2600	1	
12	5260	718	5640	6	
13	2040	716	2040	1	
14	2670	714	2850	6	
15	13680	716	14560	2	
16	5370	716	5530	3	
17	6300	718	6480	3	
18	7650	714	8360	2	
19	690	714	1100	1	
20	2200	716	2200	1	
21	1350	714	1600	1	
22	1340	714	1670	1	
23	250	76	1540	272	
24	250	76	1140	64	

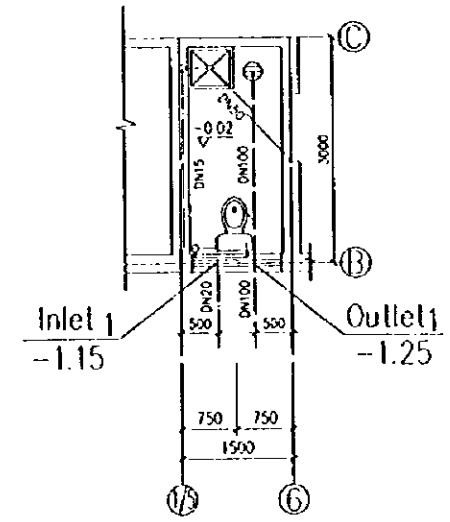
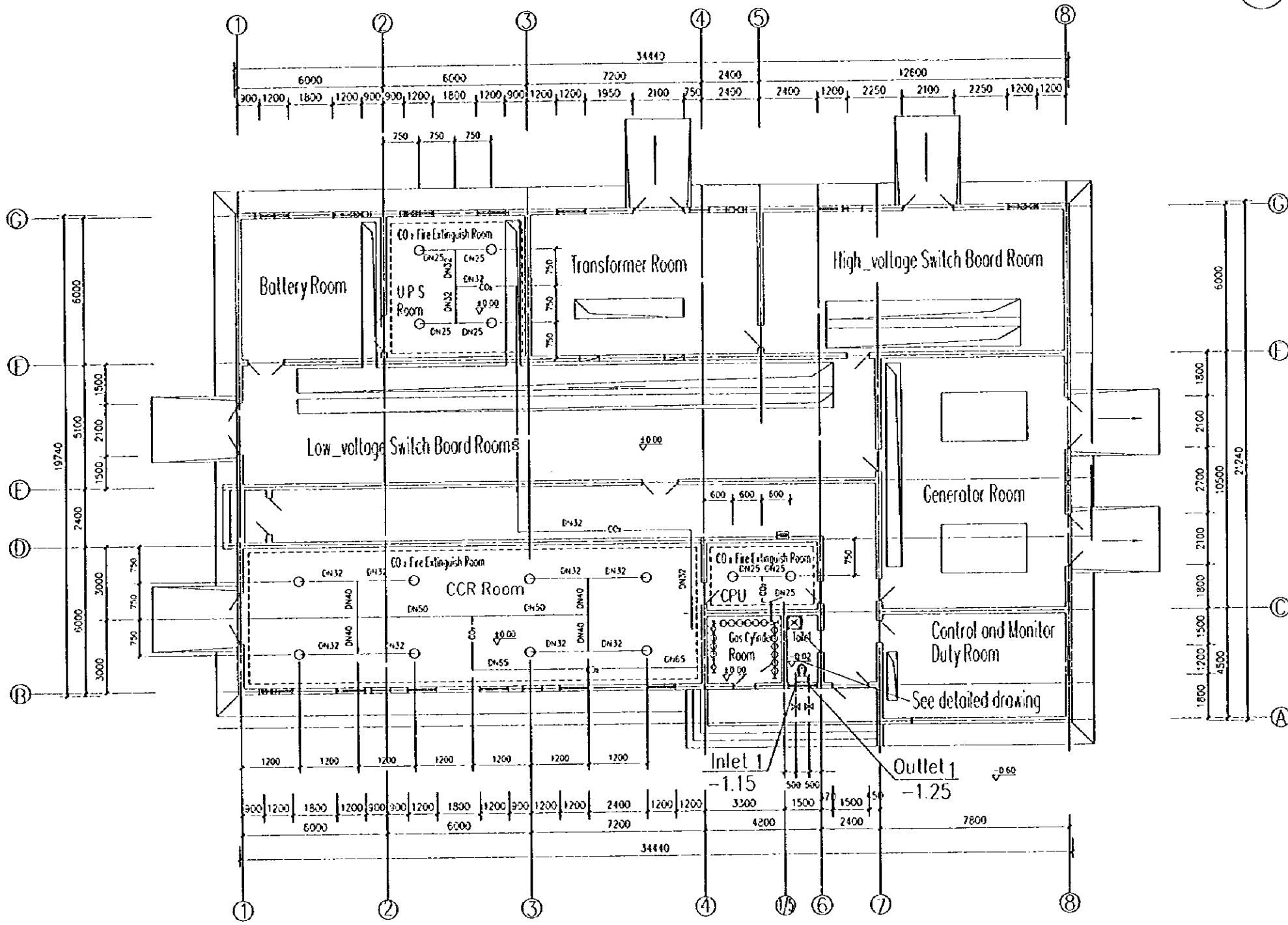
PEOPLE'S REPUBLIC OF CHINA
 SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997
 SECONDARY AFL SUBSTATION
 ORDER AND BEAM REINFORCEMENT DETAILS AND STEEL TABLE (1)
 SCALE: NON SCALE | DWG2-S3
 JAPAN INTERNATIONAL COOPERATION AGENCY



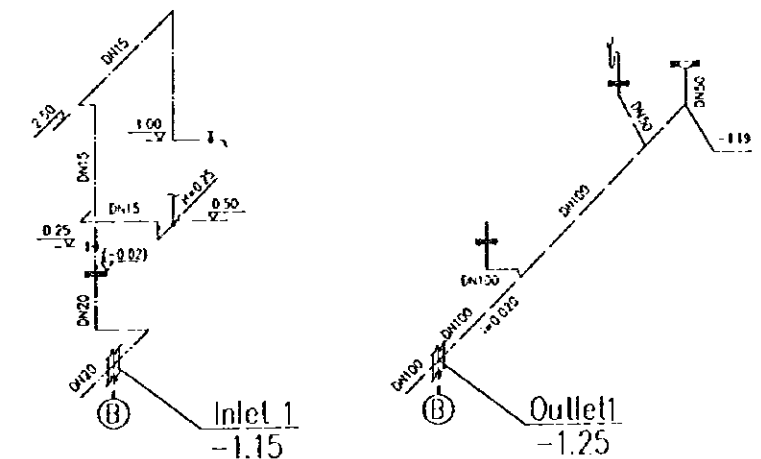
BEAM REINFORCING STEEL TABLE

No.	Steel Sketch	Spec. & Qty.	Length	Number	Weight
①		6I02	125	6810	3 79
②		6I80	714	6760	2 16
③		1490	714	1950	2 5
④		4570	716	4830	3 23
⑤		21180	718	22110	2 88
⑥		5618	716	5610	3 27
⑦		2650	718	2650	1 3
⑧		5318	716	5310	3 25
⑨		2620	718	2620	1 5
⑩		6230	720	6430	3 48
⑪		2950	720	2950	1 7
⑫		7900	722	8360	4 100
⑬		7900	720	8368	2 41
⑭		7980	716	8460	2 27
⑮		2220	714	2460	4 12
⑯		7600	76	1540	169 58
⑰		7600	78	2190	52 45
⑱		250	18	350	18 3

PEOPLE'S REPUBLIC OF CHINA
 SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997
 SECONDARY AIR SUBSTATION
 ORDER AND BEAM REINFORCEMENT DETAILS AND STEEL TABLE (2)
 SCALE: NON SCALE | DWG2-S4
 JAPAN INTERNATIONAL COOPERATION AGENCY



DETAILED DRAWING FOR TOILET (1:50)



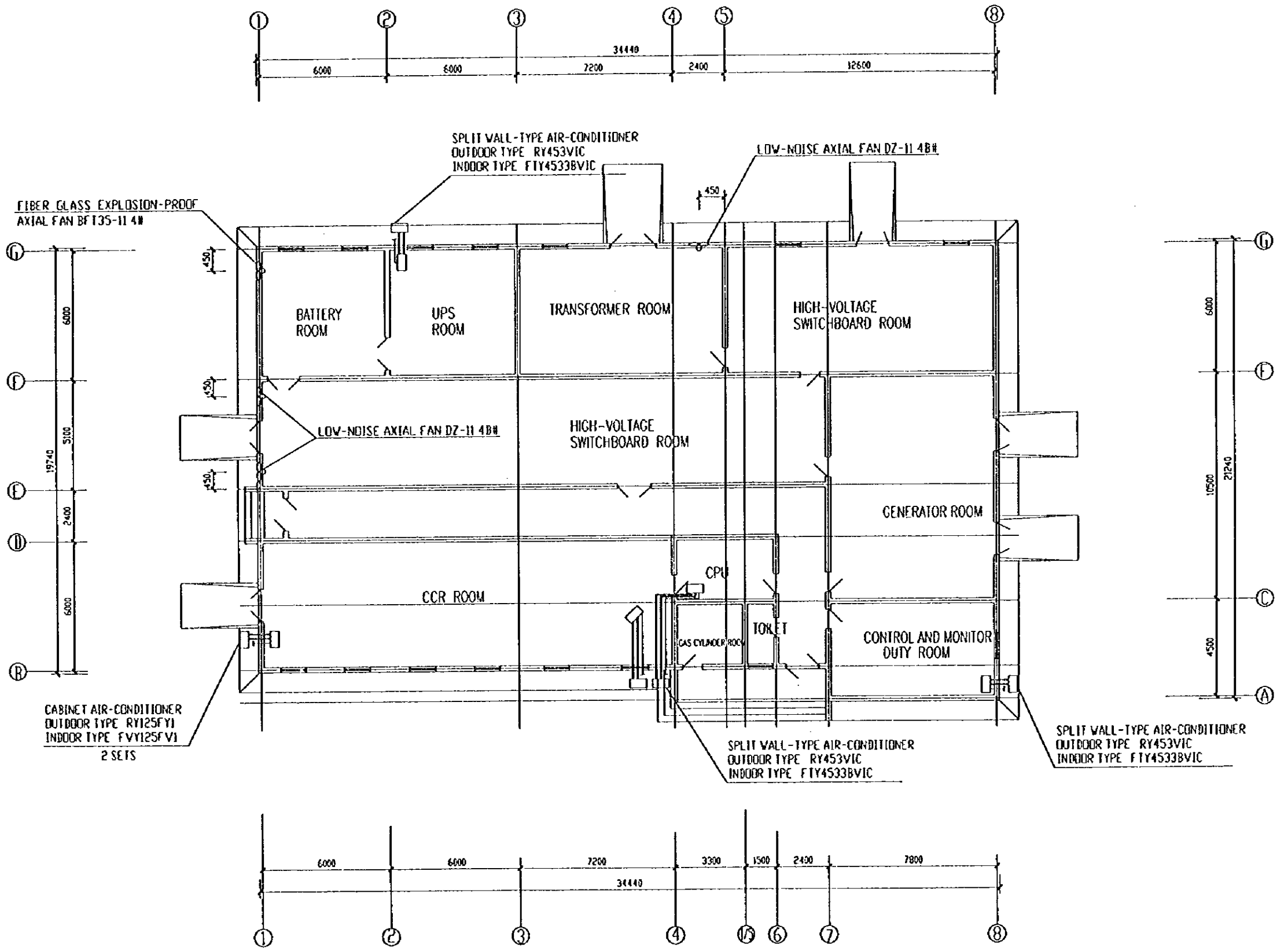
WATER SUPPLY PIPING DIAGRAM

SEWAGE PIPING DIAGRAM

1ST PLAN 1:100

- Remarks:
1. Elevation in This Drawing is What Above or Below the Current Layer.
 2. Elevation With Bracket in This Drawing is What Above or Below the Ground Floor.

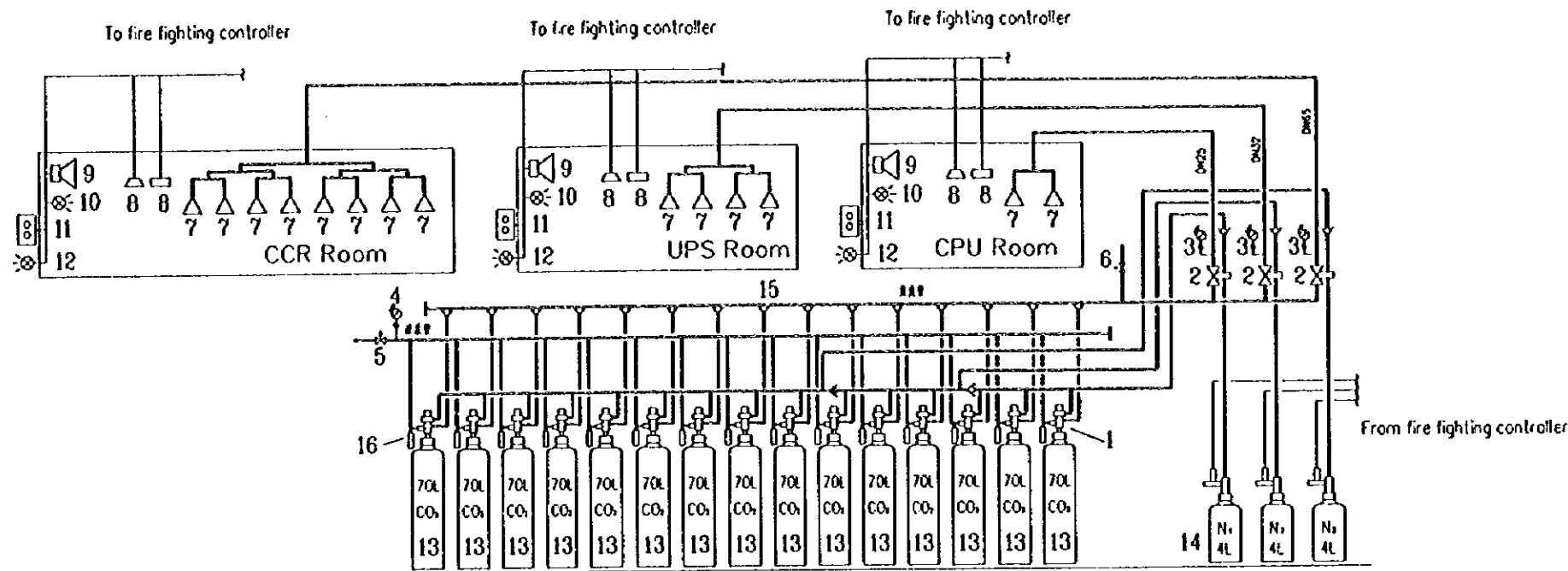
PEOPLE'S REPUBLIC OF CHINA	
SHENZHEN PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
SECONDARY AIR SUBSTATION	
1ST FLOOR PLAN, WATER SUPPLY, DRAINAGE AND FIRE FIGHTING SYSTEM	
SCALE	DWG2-W1
JAPAN INTERNATIONAL COOPERATION AGENCY	



NO.	NAME	TYPES & SPECIFICATIONS	UNIT	AMOUNT
1	CABINET AIR-CONDITIONER	$Q_c=13KW$	SET	2
	OUTDOOR RY125FY1	$Q_c=14.2KW$		
	INDOOR FVY125FV1	$N=4KW$		
2	SPLIT WALL-TYPE AIR-CONDITIONER	$Q_c=4.85KW$	SET	3
	OUTDOOR RY125FY1	$Q_c=5.50KW$		
	INDOOR FVY125FV1	$N=1.93KW$		
		$U=220V$		
3	FIBER GLASS EXPLOSION-PROOF AXIAL FAN	BFT35-11 4#	SET	1
		$U=380V$		
		$L=2500m^3/h$		
		$N=0.25KW$		
4	LOW-NOISE AXIAL FAN	DZ-11 4B#	SET	3
		$L=4000m^3/h$		
		$N=0.25KW$		
		$U=380V$		

PEOPLE'S REPUBLIC OF CHINA
 SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997
 SECONDARY AIR SUB-STATION
 PLAN, VENTILATION AND AIR-CONDITIONING SYSTEM
 SCALE 1:100 | DWG2-W2
 JAPAN INTERNATIONAL COOPERATION AGENCY

NOTE : ACCORDING TO PROCESS REQUIREMENTS, THE INDOOR AIR-CONDITIONED TEMPERATURE : T=26°C IN SUMMER; T=18°C IN WINTER .



PRINCIPLE DRAWING OF CARBON DIOXIDE EXTINGUISHING SYSTEM

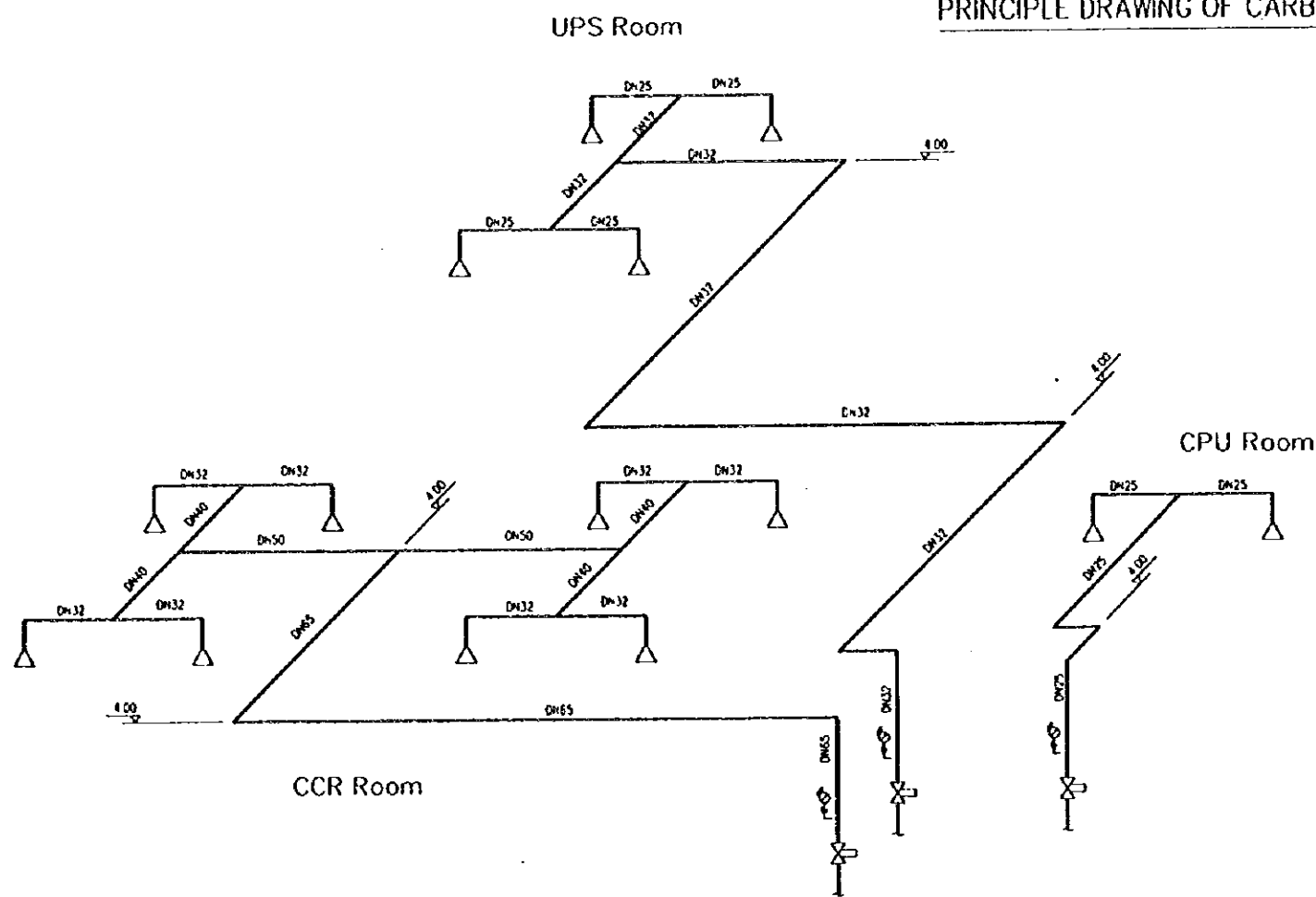


DIAGRAM DRAWING OF CARBON DIOXIDE EXTINGUISHING SYSTEM

NOTES :

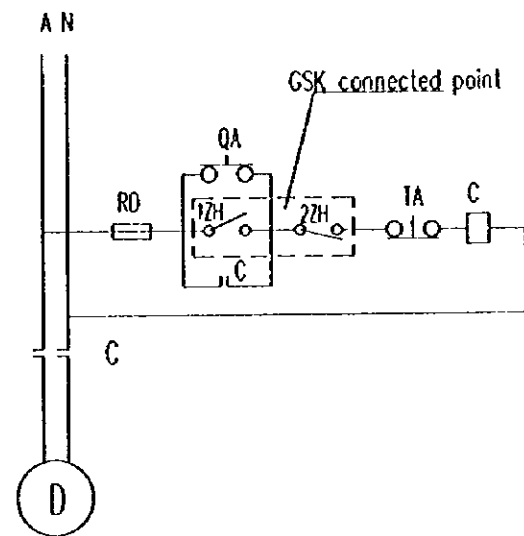
No.	Name	Specification
1	Valve of cylinder head	pressure: 15 MPa;
2	selecting valve	pressure: 12 MPa;
3	pressure switch	pressure: 15 MPa;
4	pressure switch	pressure: 0.3MPa
5	safety valve	pressure: 0.4MPa;
6	safety valve	pressure: 12 MPa;
7	nozzle	
8	fire detector	
9	sound alarm case	
10	light alarm case	
11	manual control case	
12	gas discharge indicator light	
13	gas cylinder	volume: 70 L; pressure: 15 MPa;
14	occluding cylinder	volume: 4 L; pressure: 6 MPa
15	check valve	pressure: 15 MPa;
16	gas discharge indicator	

	Volume of Room	Desired Gas Weight	Number of Cylinder	size of selecting valve	nozzle type	number of nozzle
	M ³	KG	p.c.			p.c.
CCR Room	540	580	15	65	4Q10	8
UPS Room	170	195	6	32	4QB	4
CPU Room	61	98	3	25	4QB	2

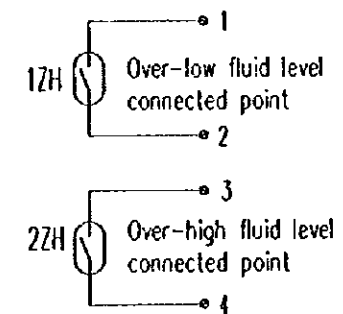
Remarks :

- Elevation in this Drawing is What Above or Below the Current Layer.
- Elevation With Bracket in this Drawing is What Above or Below the Ground Floor.

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
SECONDARY AIL SUB-STATION	
DRAWINGS ABOUT GAS FIRE FIGHTING	
SCALE	NON SCALE
DWG2-M3	
JAPAN INTERNATIONAL COOPERATION AGENCY	

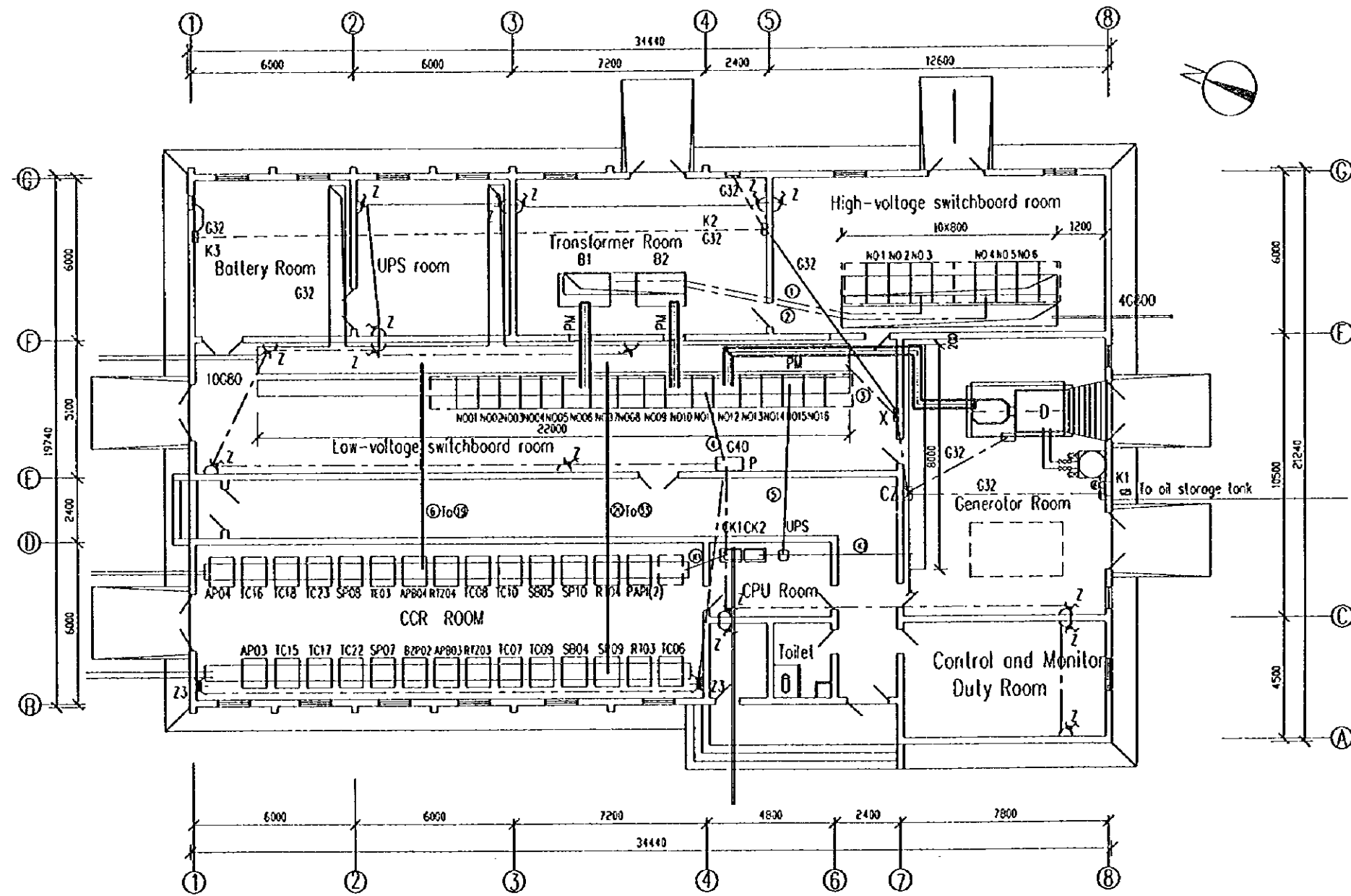


ELECTRIAL CONTROL OIL PUMP WIRING DIAGRAM



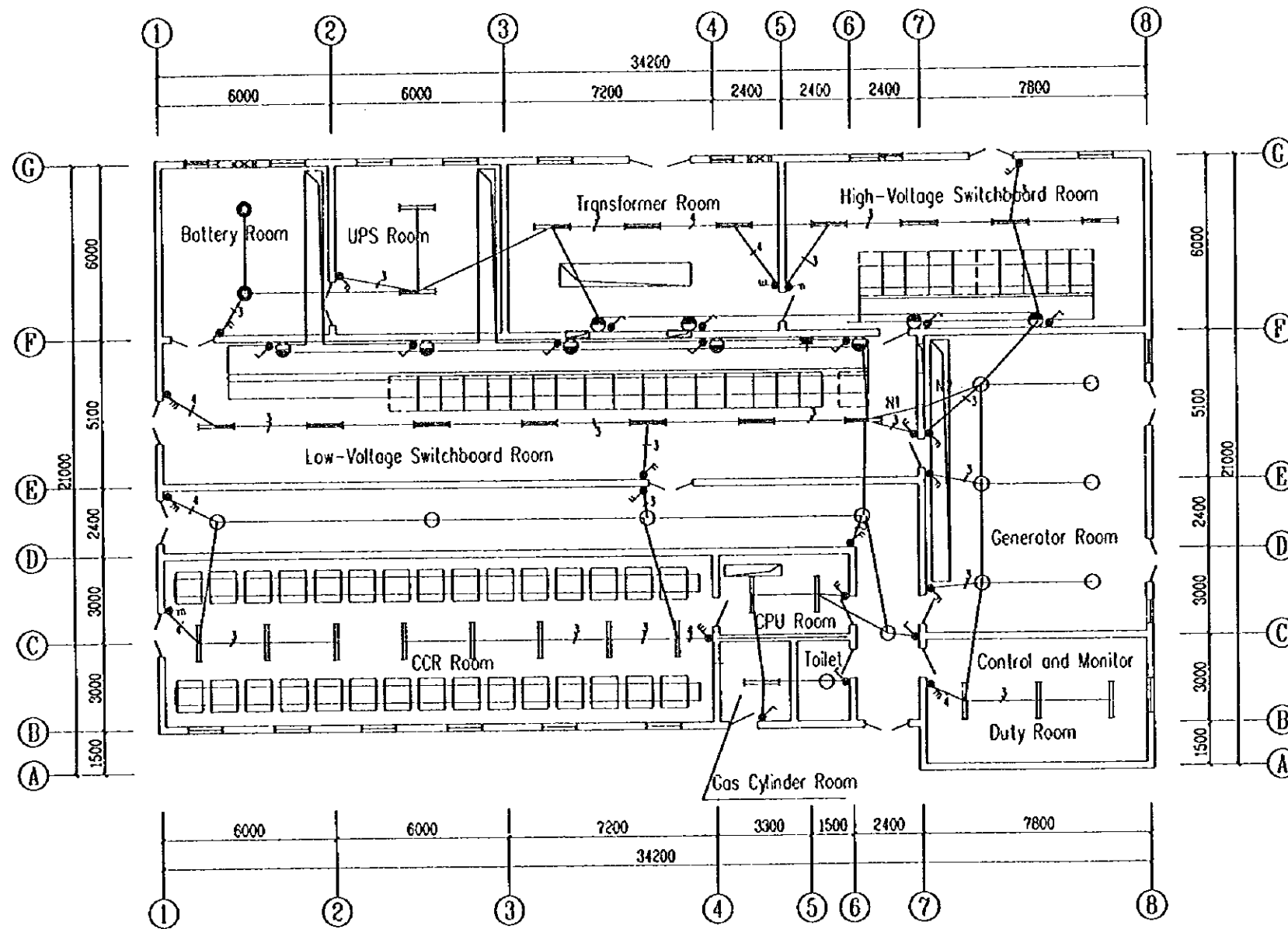
Remarks: Turn on the oil pump when fluid level of oil tank is over-low, and turn off the oil pump when fluid level of oil tank is over-high.
 Type of 1ZH, 2ZH fluid level sensor is UQK-02-b2d
 Type of A.C. contactor C is CJ20-40, 220V
 Type of fuse RD is RL1-15/10
 Type of push button QA, TA is AD11

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
SECONDARY AFL SUB-STATION	
PRINCIPLE DIAGRAM OF AUTOMATIC FUELING CONTROL BOX OF POWER FUEL PUMP	
SCALE	NONSCALE DWG2-W4
JAPAN INTERNATIONAL COOPERATION AGENCY	



1ST FLOOR PLAN

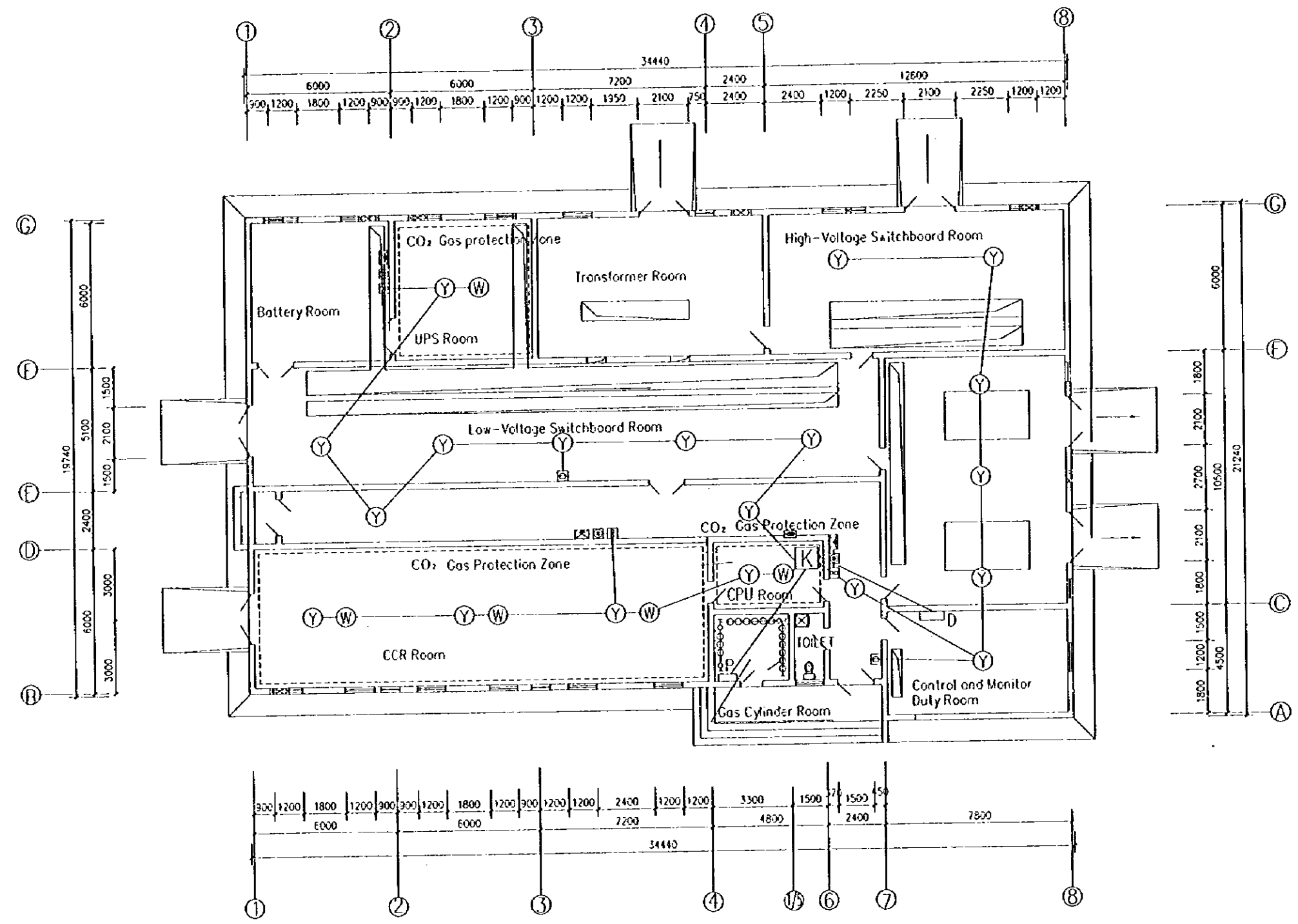
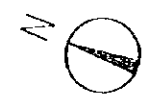
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
SECONDARY AIL SUB-STATION	
LAYOUT PLAN FOR EQUIPMENT	
SCALE	1:32
DWG2-AE'1	
JAPAN INTERNATIONAL COOPERATION AGENCY	



1ST FLOOR PLAN

No.	Symbol	Name	Specification	Unit	Quantity	Remarks
15						
14						
13						
12						
11		Cable Line	BV-500V,2.5mm	m	1200	
10		Steel Pipe	G20	m	580	
9	⚡	Single-Pole Switch	250V,6A	Set	12	
8	⚡	Two Pole Switch	250V,6A	Set	10	
7	⚡	Blot Two Pole Switch	250V,6A	Set	1	
6	⚡	Three Pole Switch	250V,6A	Set	6	
5	⦿	Wall Fitting	2X60W	Lamp	9	
4	⦿	Explosion-Proof Light	1X100W	Lamp	2	
3	○	Hanging-up Industrial Lamp	1X100W	Lamp	12	
2	⇨	Overhead Fluorescent	2X40W	Lamp	15	
1	⇨	Fluorescent	2X40W	Lamp	15	
Facilities						

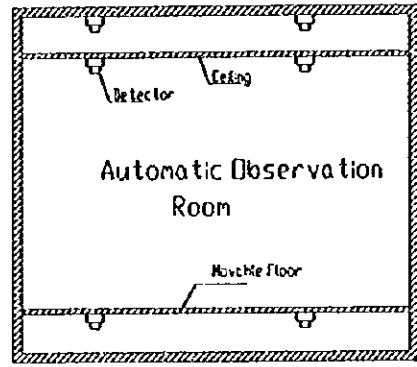
PEOPLE'S REPUBLIC OF CHINA
 SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997
 SECONDARY AEL SUB-STATION
 1ST FLOOR PLAN ILLUMINATION PLAN
 SCALE 1:100
 DWG2-AE'2
 JAPAN INTERNATIONAL COOPERATION AGENCY



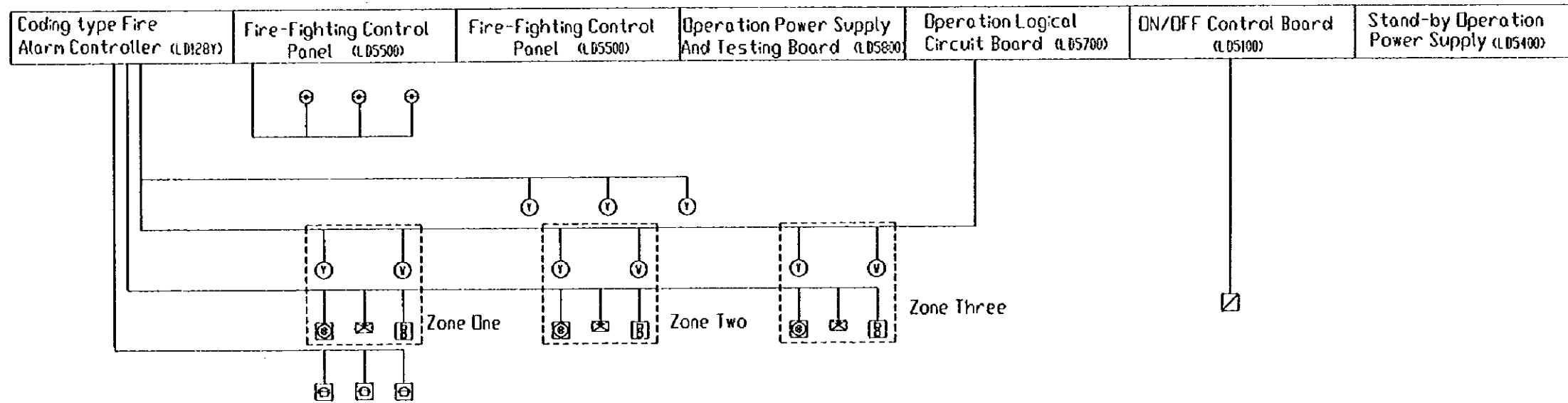
- ⊙ Smoke detector
- ⊙ Temperature detector
- P Pressure Container Driver
- K Fire-Fighting Central Control Board
- ⊠ Sound and shine alarm
- ⊠ Emergency ON/OFF button
- ⊠ Gas release indicate light
- ⊠ Alarm bell

1ST FLOOR PLAN

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PLOONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
SECONDARY AEL SUB-STATION	
1ST FLOOR PLAN FIRE ALARM DETECTOR PLAN	
SCALE	DWG2-AE'3
JAPAN INTERNATIONAL COOPERATION AGENCY	

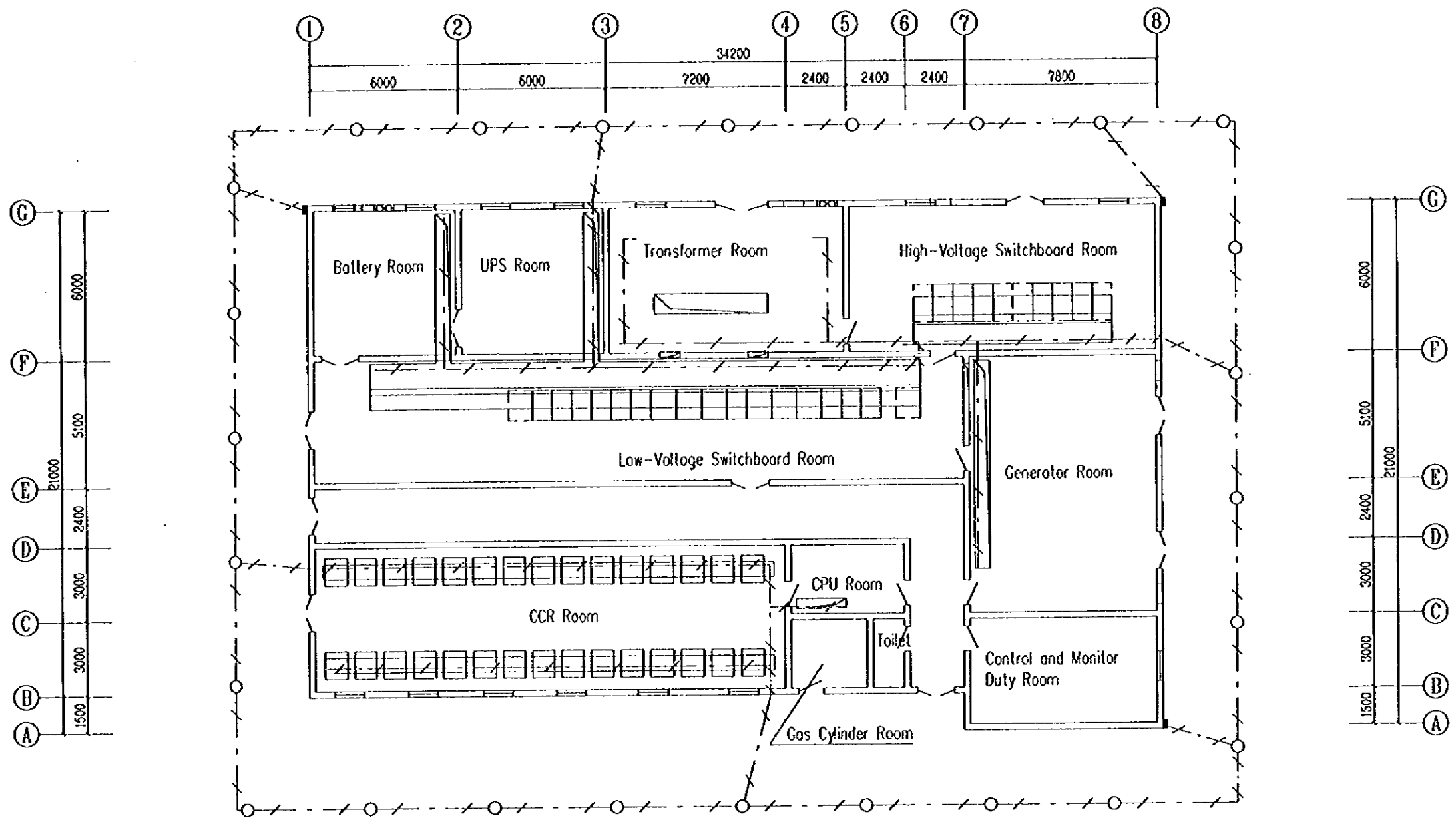


①	Temperature Detector
②	Smoke Detector
⊗	Sound and Shine Alarm
Ⓜ	Emergency DN/OFF Button
⊠	Gas Release Indecation Light
⊞	Alarm Bell
⊕	Put On Container
⊞	HVAC Control Switch

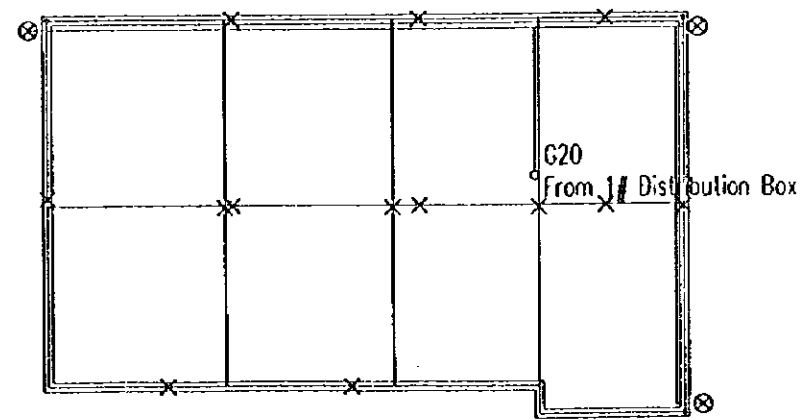


FIRE ALARM AND FIRE FIGHTING EQUIPMENT CONTROL SYSTEM

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
SECONDARY AIL SUB-STATION	
FIRE ALARM DIAGRAM	
SCALE NONSCALE	DWG2-AE'1
JAPAN INTERNATIONAL COOPERATION AGENCY	



1ST FLOOR PLAN



ROOF PLAN 1:200

No.	Symbol	Name	Specification	Unit	Quantity	Remarks
7	—	Steel Pipe	G20		10	
7	—	Cable Line	BV-500V,2.5mm		100	
6	■	Lightning Conductor	φ 12	m	30	
5	×	Lightning Discharge Wire	φ 8	m	220	
4	∕∕	Earth Wire (indoor)	25x4	m	120	
3	∕∕	Earth Wire (outdoor)	40x4	m	190	
2	⊗	Grounding Electrode	50X50X5,L=2500	Piece	26	
1	⊗	Obstacle Light	100W	lamp	3	
Facilities						

PEOPLE'S REPUBLIC OF CHINA
 SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997
 SECONDARY AFL SUB-STATION
 GROUNDING SYSTEM
 SCALE DWG2-AE'S
 JAPAN INTERNATIONAL COOPERATION AGENCY

FINISHING TECHNICAL SPECIFICATIONS

No.	Topping	Construction
Floor 1	Concrete (with water-proof layer)	<ol style="list-style-type: none"> 110 thick C15 concrete 1:1 cement mortar, tamping & polishing. 30 thick 1:3 cement mortar protection layer. One-felt-two-asphalt water-proof layer, rolling up to 150 high all around, pasting coarse sand; 150 thick pebble, grouting M2.5 mixed mortar; soil tamping
Apron 1	Concrete	<ol style="list-style-type: none"> 50 thick C15 concrete 1:1 cement mortar, tamping & polish; 150 thick pebble, grouting M2.5 mixed mortar; Soiling tamping, pitch to outside 4%.
Interior Wall 1	Coating	<ol style="list-style-type: none"> Paint interior wall coating; 2 thick grummet finish coat; 8 thick 1:3 lime putty mortar; 13 thick 1:3 lime putty mortar priming
Skirt 1	Cement h=120	<ol style="list-style-type: none"> 8 thick 1:2.5 cement mortar topping, tamping & polish; 12 thick 1:3 cement mortar priming, deburring or scratch.
Ceiling 1	Coating	<ol style="list-style-type: none"> Paint white scrubbing-resisting coating; 2 thick grummet finish coat; 6 thick 1:3:9 cement lime putty mortar; 2 thick 1:0.5:1 cement lime putty mortar priming; R.C. slab bottom to be brushed one coat of plain wet cement (mixing 107 glue with water 3~5%)
Ramp 1	Concrete	<ol style="list-style-type: none"> 20 thick 1:2 cement mortar mopping, 15 wide emery antislip strip, spacing 80, convex to ramp surface; One coat of plain wet cement binder course; 50 thick C15 concrete; 300 thick pebble, grouting M2.5 mixed mortar; Soiling tamping (levelling as per plan & section dimension).
Roof 1	Small Stone Protection Layer (without person)	<ol style="list-style-type: none"> Pave one coat of binded peastone of 3~6 in partial size; Ternary ethlene-propylene rubber rolled material water-proof layer; 20 thick 1:2.5 cement mortar levelling course; Pave 1.8 cement perlite thermal insulation layer, lowest point :30 thick, 2% pitch, vibrating & tamping polish (exhaust channel, PVC exhaust dust to be provided with vent spacing of not more than 6 M as per Codes); 20 thick 1:3 cement mortar levelling course; R.C. slab.

No.	Topping	Construction
Exterior Wall 1	Facing Brick	<ol style="list-style-type: none"> 1:1 cement mortar (fine sand) pointing; Paste 10 thick facing brick (as pasting as brushing one coat of Yj-302 type concrete interlace treatment agent to increase binding force); 12 thick 1:0.2:2 cement lime putty mortar binder course; Brush one coat of plain wet cement (mixing 107 glue with water 3~5%); 8 thick 1:3 cement mortar priming, deburring & scratching; Brush one coat of Yj-302 type concrete interlace treatment agent (as brushing as pasting).

BUILDING CONSTRUCTION TABLE

Name	Floor	Interior Wall	Skirt	Ceiling	Roof
	Topping/ Construction	Topping/ Construction	Topping/ Construction	Topping/ Construction	
Cor Park	Concrete/ Floor 1	Coating/ Interior Wall	Concrete/ Skirt 1	Coating/ Ceiling 1	Roof 1

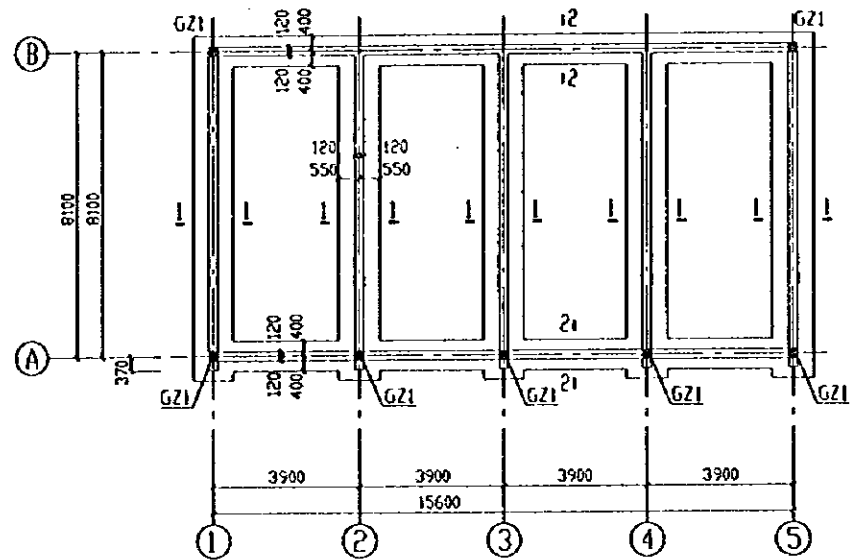
DOOR & WINDOW TABLE

Name	Type	Opening Size	Standard Drawing	Number	Remark
C1	Sliding aluminum alloy window	1500x900	¥ 91J604-TC1509	4	White aluminum window
M1	Aluminum alloy rolled door	3000x3000		4	

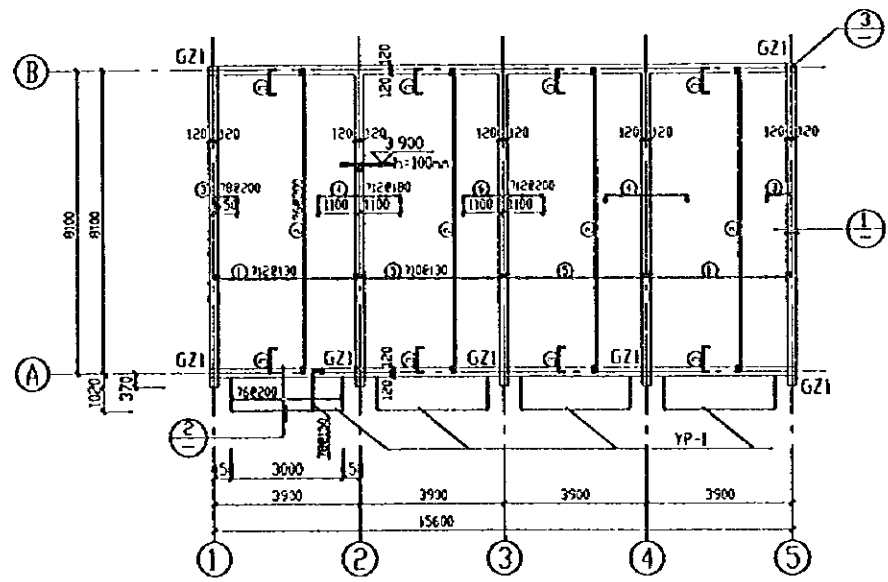
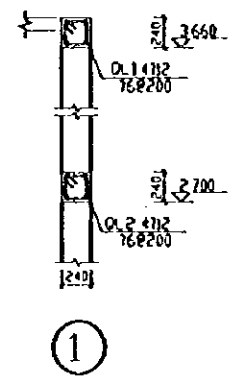
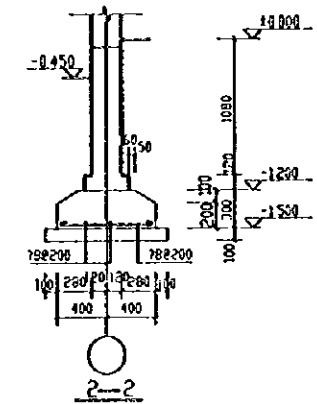
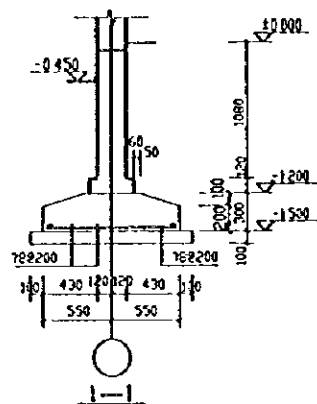
DESIGN INTRODUCTION

1. This project is cor park of main lighting substation of aviation lighting works of Shanghai Pudong international Airport, its general plan position and outdoor elevations refer to General Drawing.
2. Design basis: This project is designed based on preliminary design and preliminary design approving document.
3. Floor area : 126.36m

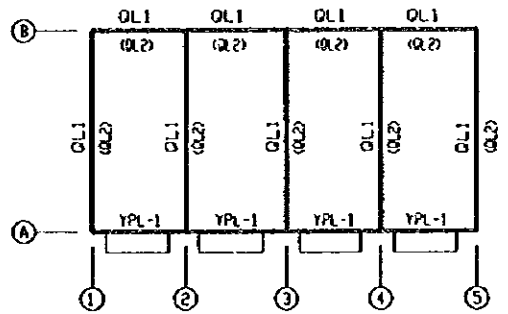
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
MAIN ATEL SUBSTATION GARAGE	
FINISHING TECHNICAL SPECIFICATIONS, BUILDING CONSTRUCTION TABLE AND DESIGN INTRODUCTION	
SCALE	NON SCALE
DWG2-UAT	
JAPAN INTERNATIONAL COOPERATION AGENCY	



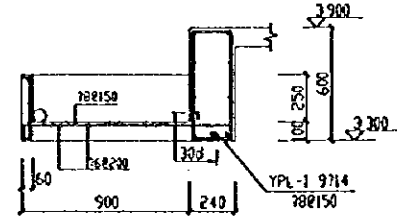
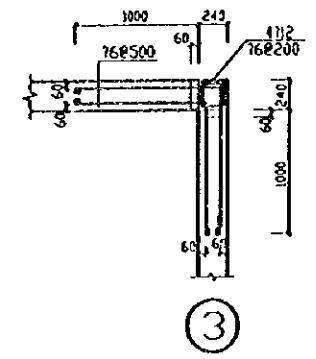
FOUNDATION PLAN



ROOF REINFORCEMENT PLAN

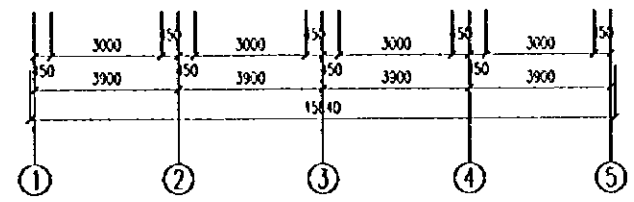
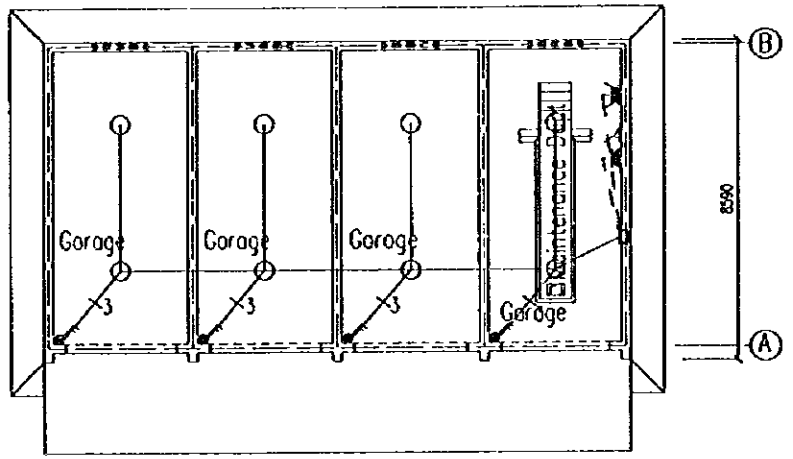
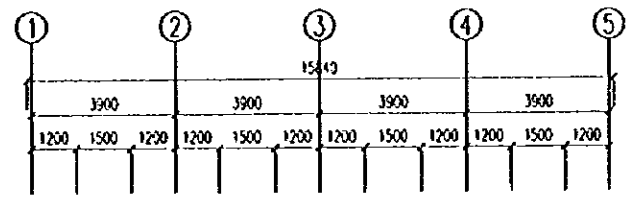


Ring Plate Layout

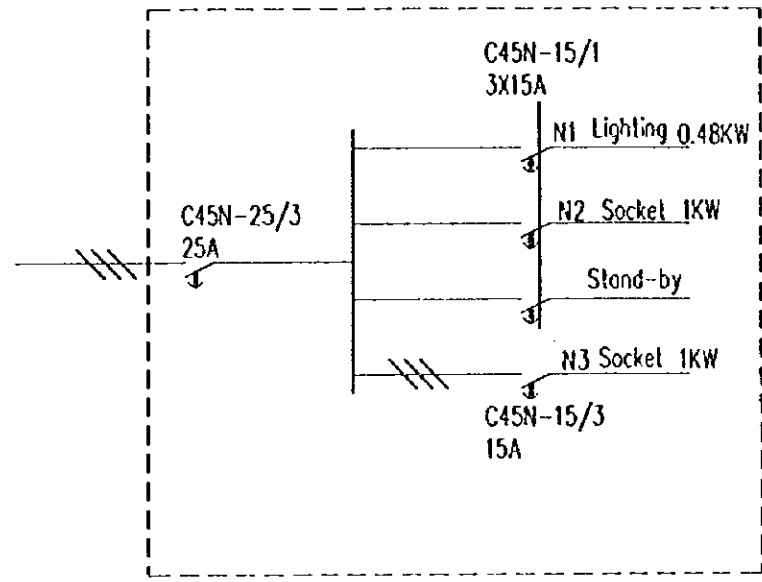


2

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
SECONDARY AFL SUBSTATION	
FOUNDATION PLAN AND REINFORCEMENT DETAILS	
SCALE	NON SCALE DWG2-US1
JAPAN INTERNATIONAL COOPERATION AGENCY	



1ST FLOOR



Power Line Diagram For Lighting/Receptacle Distribution Box

Facilities						
No.	Symbol	Name	Specification	Unit	Quantity	Remarks
1		Lighting/Receptacle Distribution Box		Box	1	
2	○	Hanging-up light	1X100W	Lamp	8	
3	⚡	Three Phase Socket	380V,10A	Set	1	
4	⚡	Single Phase Socket	250V,10A	Set	1	
5	⚡	Two Pole Switch	250V,4A	Set	4	
6	--	Cable Line	BV-500V,4mm ²	m	40	
7	—	Cable Line	BV-500V,2.5mm ²	m	140	
		Steel Pipe	G20	m	70	

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
MAIN ATEL SUB-STATION GARAGE	
ILLUMINATION PLAN AND POWER LINE DIAGRAM	
SCALE	DWG2-UE1
JAPAN INTERNATIONAL COOPERATION AGENCY	

JAPAN INTERNATIONAL COOPERATION AGENCY
SCIENCE AND TECHNOLOGY COMMISSION OF
SHANGHAI MUNICIPAL PEOPLE'S GOVERNMENT,
PEOPLE'S REPUBLIC OF CHINA

DETAILED DESIGN OF SHANGHAI PUDONG INTERNATIONAL AIRPORT FINAL REPORT

PART III-3 Fuel Supply System

SEPTEMBER 1997

NIPPON KOEI CO., LTD
NIKKEN SEKKEI LTD.

DETAILED DESIGN OF SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT

NIPPON KOEI CO., LTD.
NIKKEN SEKKEI LTD.

Fuel Supply System (1/3)

DWG No.	TITLE	題 目
3-F01	GENERAL LAYOUT PLAN	全体配置計画図
3-F02	PIPING AND INSTRUMENT FLOW DIAGRAM LEGEND	配管計装系統図 記号一覧表
3-F03	PIPING AND INSTRUMENT FLOW DIAGRAM (FUEL1/4)	配管計装系統図 (燃料給油施設) (1/4)
3-F04	PIPING AND INSTRUMENT FLOW DIAGRAM (FUEL2/4)	配管計装系統図 (燃料給油施設) (2/4)
3-F05	PIPING AND INSTRUMENT FLOW DIAGRAM (FUEL3/4)	配管計装系統図 (燃料給油施設) (3/4)
3-F06	PIPING AND INSTRUMENT FLOW DIAGRAM (FUEL4/4)	配管計装系統図 (燃料給油施設) (4/4)
3-F07	PIPING AND INSTRUMENT FLOW DIAGRAM (FIRE1/2)	配管計装系統図 (消火施設) (1/2)
3-F08	PIPING AND INSTRUMENT FLOW DIAGRAM (FIRE2/2)	配管計装系統図 (消火施設) (2/2)
3-F11(1/2)	PLOT PLAN (FUEL STORAGE DEPOT) (1/2)	配置計画図 (燃料貯蔵基地) (1/2)
3-F11(2/2)	PLOT PLAN (FUEL STORAGE DEPOT) (2/2)	配置計画図 (燃料貯蔵基地) (2/2)
3-F12	PLOT PLAN (FUEL SUPPLY DEPOT)	配置計画図 (燃料給油基地)
3-F21	10,000m ³ FUEL STORAGE TANK	10,000m ³ 貯蔵タンク外形図
3-F22	100m ³ SLOP TANK	100m ³ スロップタンク外形図
3-F23	25m ³ DRAIN DRUM	25m ³ ドレンドラム外形図
3-F24(1/2)	10,000m ³ TANK FOUNDATION(1/2)	10,000m ³ タンク基礎図 (1/2)
3-F24(2/2)	10,000m ³ TANK FOUNDATION(2/2)	10,000m ³ タンク基礎図 (2/2)
3-F25(1/2)	100m ³ TANK FOUNDATION(1/2)	100m ³ タンク基礎図 (1/2)
3-F25(2/2)	100m ³ TANK FOUNDATION(2/2)	100m ³ タンク基礎図 (2/2)
3-F31	PIPING LAYOUT(OVER ALL)	配管レイアウト図 (全体)
3-F32(1/2)	PIPING LAYOUT(FUEL STORAGE DEPOT)(1/2)	配管レイアウト図 (燃料貯蔵基地) (1/2)
3-F32(2/2)	PIPING LAYOUT(FUEL STORAGE DEPOT)(2/2)	配管レイアウト図 (燃料貯蔵基地) (2/2)
3-F33	PIPING LAYOUT(FUEL SUPPLY DEPOT)	配管レイアウト図 (燃料給油基地)
3-F34	UNDER GROUND PIPING PROFILE	埋設配管縦断面図
3-F35	WATER SUPPLY(FUEL STORAGE DEPOT)	給水配管レイアウト図 (燃料貯蔵基地)
3-F36	WATER SUPPLY(FUEL SUPPLY DEPOT)	給水配管レイアウト図 (燃料給油基地)
3-F37	OILY WATER DRAINAGE	含油水・排水配管レイアウト図 (燃料貯蔵基地)
3-F38	FIRE FIGHTING	消火配管レイアウト図 (燃料貯蔵基地)
3-E01	ONE LINE DIAGRAM	単線結線図
3-E02	AREA CLASSIFICATION	防爆範囲図
3-E03	MAIN CABLE LAYOUT(1/3)	主ケーブル図
3-E04	MAIN CABLE LAYOUT(2/3)	主ケーブル図
3-E05	MAIN CABLE LAYOUT(3/3)	主ケーブル図
3-E06	GROUNDING LAYOUT	接地配置図
3-E11	SYSTEM DIAGRAM	システム系統図
3-B01(1/2)	FIRE WATER POND(1/2)	消火用貯水池計画図 (1/2)
3-B01(2/2)	FIRE WATER POND(2/2)	消火用貯水池計画図 (2/2)
3-B02	FIRE DIKE AND SUB DIKE	防油堤計画図
3-B03	PAVING(FUEL STORAGE DEPOT)	舗装区分図 (燃料貯蔵基地)
3-B04	PAVING(FUEL SUPPLY DEPOT)	舗装区分図 (燃料給油基地)
3-B05	RAIN WATER DRAINAGE(FUEL STORAGE DEPOT)	雨水・排水配管レイアウト図 (燃料貯蔵基地)
3-B06	RAIN WATER DRAINAGE(FUEL SUPPLY DEPOT)	雨水・排水配管レイアウト図 (燃料給油基地)
3-B07(1/3)	FUEL PUMP FOUNDATION(FUEL STORAGE DEPOT)(1/3)	油泵・フィルター基礎図 (燃料貯蔵基地) (1/3)
3-B07(2/3)	FIRE PUMP FOUNDATION(FUEL STORAGE DEPOT)(2/3)	消火ポンプ基礎図 (燃料貯蔵基地) (2/3)
3-B07(3/3)	EQUIPMENT FOUNDATION & PIPE SLEEPER(FUEL STORAGE DEPOT)(3/3)	配管列・配管架基礎図 (燃料貯蔵基地) (3/3)
3-B08(1/2)	EQUIPMENT FOUNDATION & PIPE SLEEPER(FUEL SUPPLY DEPOT)(1/2)	フィルター積込設備及び弁設備基礎図 (燃料給油基地) (1/2)
3-B08(2/2)	EQUIPMENT FOUNDATION & PIPE SLEEPER(FUEL SUPPLY DEPOT)(2/2)	配管列・配管架基礎図 (燃料給油基地) (2/2)
3-B09(1/2)	WALK WAY AND OPERATION STAGE(1/2)	歩廊配置及び詳細図 (1/2)
3-B09(2/2)	WALK WAY AND OPERATION STAGE(2/2)	操作ステージ詳細図 (2/2)
3-B10	FENCE(FUEL STORAGE DEPOT)	フェンス計画図 (燃料貯蔵基地)
3-B11	FENCE(FUEL SUPPLY DEPOT)	フェンス計画図 (燃料給油基地)
3-B12(1/2)	HEADER PIT (1/2)	ヘッドピット詳細図 (1/2)
3-B12(2/2)	HEADER PIT (2/2)	ヘッドピット及びバルブラック詳細図 (2/2)
3-B13	OIL SEPARATOR	オイルセパレーター計画図

DETAILED DESIGN OF SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT

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Fuel Supply System (2/3)

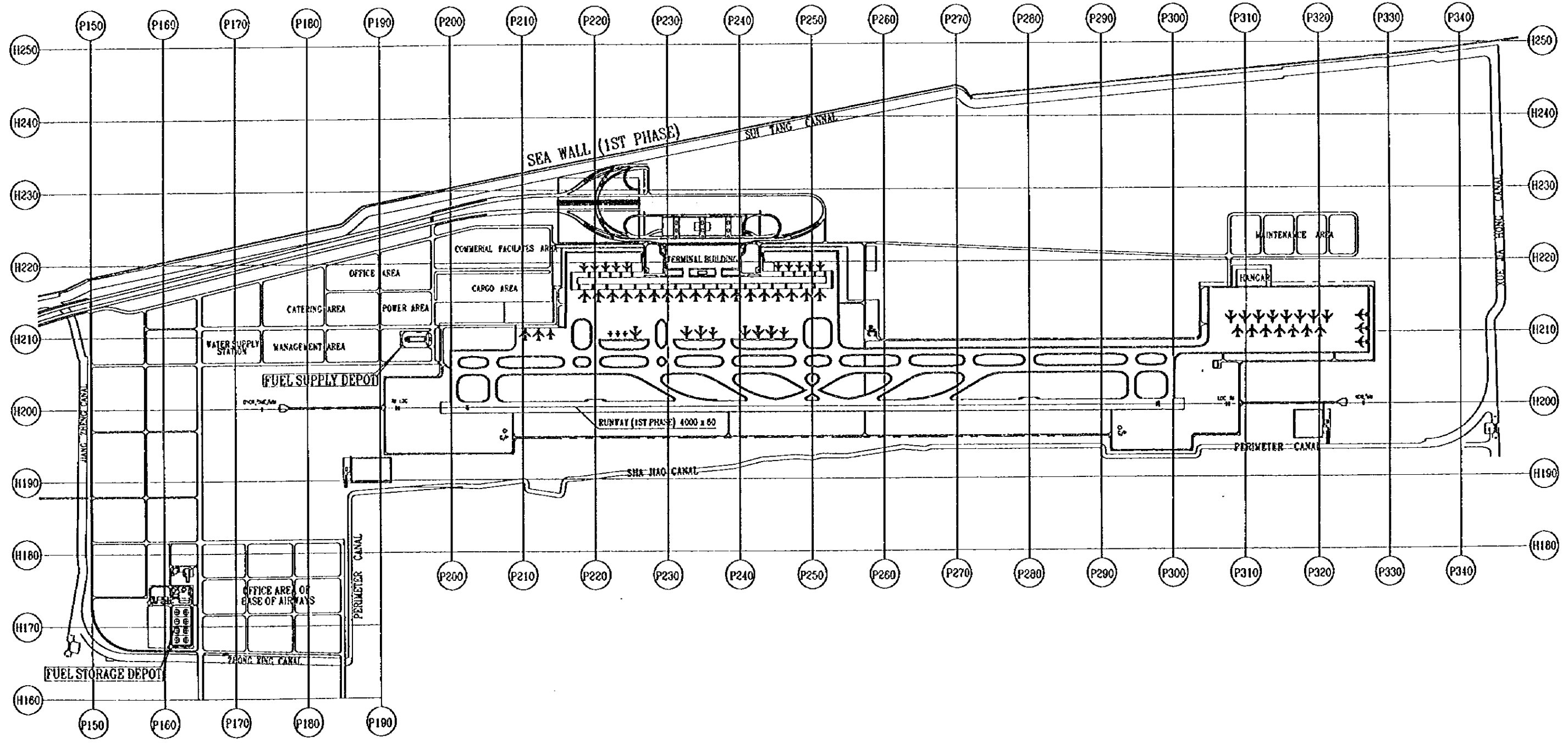
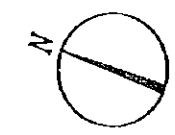
DWG No.	TITLE	題 目
3-A01A(1/13)	MAIN OFFICE BUILDING (FUEL STORAGE DEPOT) DOOR & WINDOW TABLE AND INTRODUCTION	本館 設計概要書・建具表
3-A01A(2/13)	BUILDING MATERIAL CONSTRUCTION TABLE	特記仕様書
3-A01A(3/13)	1st FLOOR PLAN	1階平面図
3-A01A(4/13)	2nd FLOOR PLAN	2階平面図
3-A01A(5/13)	3rd FLOOR PLAN	3階平面図
3-A01A(6/13)	1~13 ELEVATION AND 13~1 ELEVATION	立面図
3-A01A(7/13)	G~A ELEVATION, A~G ELEVATION AND B-B SECTION, C-C SECTION	立面図・断面図
3-A01A(8/13)	ROOF PLAN, A-A SECTION AND BUILDING CONSTRUCTION TABLE	屋上平面図・断面図・仕上表
3-A01A(9/13)	1st FLOOR CEILING PLAN	1階天井伏図
3-A01A(10/13)	2nd FLOOR CEILING PLAN	2階天井伏図
3-A01A(11/13)	3rd FLOOR CEILING PLAN	3階天井伏図
3-A01A(12/13)	STAIR PLAN AND TOILET DETAILS	階段及び便所平面詳細図
3-A01A(13/13)	STAIR SECTION AND TOILET SECTION	階段及び便所断面詳細図
3-A01B(1/11)	DESIGN INTRODUCTION	設計概要書(構造)
3-A01B(2/11)	FOUNDATION PLAN	基礎伏図
3-A01B(3/11)	1st FLOOR COLUMN PLAN	1階柱伏図
3-A01B(4/11)	Z1-Z10 REINFORCEMENT DETAILS AND COLUMN REINFORCING STEEL TABLE	Z1-Z10柱配筋詳細図・柱配筋リスト
3-A01B(5/11)	2nd FLOOR GIRDER AND BEAM PLAN	2階梁伏図
3-A01B(6/11)	3rd FLOOR GIRDER AND BEAM PLAN	3階梁伏図
3-A01B(7/11)	ROOF GIRDER AND BEAM PLAN AND STAIRCASE ROOF BEAM PLAN	屋上梁伏図・階段室屋根梁伏図
3-A01B(8/11)	GIRDER REINFORCEMENT DETAILS	梁配筋詳細図
3-A01B(9/11)	2nd FLOOR REINFORCEMENT DETAIL AND REINFORCING STEEL TABLE	2階スラブ配筋図・スラブ配筋リスト
3-A01B(10/11)	3rd FLOOR REINFORCEMENT DETAIL AND REINFORCING STEEL TABLE	3階スラブ配筋図・スラブ配筋リスト
3-A01B(11/11)	ROOF REINFORCEMENT DETAIL AND REINFORCING STEEL TABLE	屋根・階段室屋根スラブ配筋図・スラブ配筋リスト
3-A01C(1/3)	1st FLOOR PLAN, WATER SUPPLY AND DRAINAGE AND FIRE FIGHTING	1階給排水衛生消火設備図
3-A01C(2/3)	2nd FLOOR PLAN, WATER SUPPLY AND DRAINAGE AND FIRE FIGHTING	2階給排水衛生消火設備図
3-A01C(3/3)	3rd FLOOR PLAN, WATER SUPPLY AND DRAINAGE AND FIRE FIGHTING	3階給排水衛生消火設備図
3-A01D(1/3)	1st FLOOR PLAN, AIR CONDITIONING SYSTEM	1階空調設備図
3-A01D(2/3)	2nd FLOOR PLAN, AIR CONDITIONING SYSTEM	2階空調設備図
3-A01D(3/3)	3rd FLOOR PLAN, AIR CONDITIONING SYSTEM	3階空調設備図
3-A01E(1/3)	LIGHTING LAYOUT FOR FLOOR OF COMPREHENSIVE BUILDING	1階照明設備図
3-A01E(2/3)	LIGHTING LAYOUT FOR FLOOR OF COMPREHENSIVE BUILDING	2階照明設備図
3-A01E(3/3)	LIGHTING LAYOUT FOR FLOOR OF COMPREHENSIVE BUILDING	3階照明設備図
3-A02(1/2)	PUMP SHED PLAN, SECTION, ELEVATION AND BUILDING MATERIAL CONSTRUCTION TABLE	ポンプ室 平面図・断面図・立面図・特記仕様書
3-A02(2/2)	ROOF PLAN AND 1~10 ELEVATION	屋根平面図・立面図
3-A03(1/5)	ELECTRICAL BUILDING AND CONTROL ROOM BUILDING MATERIAL CONSTRUCTION TABLE (1)	電気室及び制御室 特記仕様書(1)
3-A03(2/5)	BUILDING MATERIAL CONSTRUCTION TABLE (2)	特記仕様書(2)
3-A03(3/5)	BUILDING CONSTRUCTION TABLE AND DOOR AND WINDOW TABLE	仕上表・建具表
3-A03(4/5)	1st FLOOR PLAN, 2nd FLOOR PLAN AND ROOF PLAN	1階/2階平面図・屋上平面図
3-A03(5/5)	ELEVATIONS AND SECTIONS	立面図・断面図
3-A04(1/3)	FIR PUMP BUILDING BUILDING MATERIAL CONSTRUCTION TABLE, BUILDING CONSTRUCTION TABLE AND DOOR & WINDOW TABLE	消火ポンプ室 特記仕様書・仕上表・建具表
3-A04(2/3)	PLAN, ROOF PLAN AND C~A ELEVATION	平面図・屋上平面図・立面図
3-A04(3/3)	1~12 ELEVATION, 12~1 ELEVATION AND SECTION	立面図・断面図
3-A05(1/3)	WAREHOUSE PLAN 1~8 ELEVATION AND A-A SECTION	倉庫 平面図・立面図・断面図
3-A05(2/3)	8~1 ELEVATION, B-A ELEVATION, A-B ELEVATION ROOF PLAN, DOOR & WINDOW TABLE AND BUILDING CONSTRUCTION TABLE	屋上平面図・立面図・建具表・仕上表
3-A05(3/3)	BUILDING MATERIAL CONSTRUCTION TABLE	特記仕様書
3-A06(1/4)	LABORATORY BUILDING MATERIAL CONSTRUCTION TABLE AND DOOR & WINDOW TABLE	試験棟 特記仕様書・建具表
3-A06(2/4)	BUILDING CONSTRUCTION TABLE, LAB. EQUIPMENT TABLE, B-B SECTION AND G-A ELEVATION	仕上表・実験機置表・立面図・断面図
3-A06(3/4)	PLAN	平面図
3-A06(4/4)	ROOF PLAN, 6~1 ELEVATIONS, 1~6 ELEVATION AND A-A SECTION	屋上平面図・立面図・断面図

DETAILED DESIGN OF SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT

NIPPON KOEI CO., LTD.
NIKKEN SEKKEI LTD.

Fuel Supply System (3/3)

DWG No.	TITLE		題目
3-A07(1/2)	MAINTENANCE BUILDING	PLAN, ROOF PLAN, ELEVATIONS AND SECTION	修理棟 平面図・屋上平面図・立面図・断面図・建具表・仕上表 特記仕様書(1)・(2)・(3)
3-A07(2/2)		BUILDING MATERIAL CONSTRUCTION TABLE (1),(2) AND (3)	
3-A08A(1/6)	OFFICE BUILDING (FUEL SUPPLY DEPOT)	BUILDING CONSTRUCTION TABLE AND DOOR & WINDOW TABLE	事務所棟 仕上表・建具表 1階平面図 2階平面図 立面図 屋上平面図・立面図・断面図 特記仕様書 設計概要書 基礎伏図・基礎配筋詳細図 2階スラブ配筋図 屋根スラブ配筋図 1階給排水衛生消火設備図 2階給排水衛生消火設備図 1階空調設備図 2階空調設備図 照明設備図
3-A08A(2/6)		1st FLOOR PLAN	
3-A08A(3/6)		2nd FLOOR PLAN	
3-A08A(4/6)		ELEVATIONS	
3-A08A(5/6)		ROOF PLAN, ELEVATIONS AND SECTIONS	
3-A08A(6/6)		FINISHING TECHNICAL SPECIFICATIONS	
3-A08B(1/4)		DESIGN INTRODUCTION	
3-A08B(2/4)		FOUNDATION PLAN	
3-A08B(3/4)		2nd FLOOR REINFORCEMENT DETAILS	
3-A08B(4/4)		ROOF REINFORCEMENT DETAILS	
3-A08C(1/2)		1st FLOOR PLAN, WATER SUPPLY AND DRAINAGE AND FIRE FIGHTING SYSTEM	
3-A08C(2/2)		2nd FLOOR PLAN, WATER, SUPPLY AND DRAINAGE AND FIRE FIGHTING SYSTEM	
3-A08D(1/2)		1st FLOOR PLAN, AIR CONDITIONING SYSTEM	
3-A08D(2/2)		2nd FLOOR PLAN, AIR CONDITIONING SYSTEM	
3-A08E	LIGHTING LAYOUT FOR FLOOR OF COMPREHENSIVE BUILDING		
3-A09(1/4)	REFUELER AND SERVICE PARKING BUILDING	BUILDING MATERIAL CONSTRUCTION TABLE	給油車両車庫 特記仕様書(1) 特記仕様書(2)・仕上表・建具表 平面図 屋上平面図・立面図・断面図
3-A09(2/4)		BUILDING MATERIAL CONSTRUCTION TABLE (2)	
3-A09(3/4)		BUILDING CONSTRUCTION TABLE AND DOOR & WINDOW TABLE	
3-A09(4/4)		PLAN	
3-A10(1/2)	DINING HALL	ELEVATION, SECTION AND ROOF PLAN	食堂棟 平面図 屋上平面図・立面図・断面図
3-A10(2/2)		PLAN	
3-A10(2/2)		ROOF PLAN, ELEVATION AND SECTION	























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SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
GENERAL LAYOUT PLAN	
SCALE	0 200 400 600 DWG3-F01
JAPAN INTERNATIONAL COOPERATION AGENCY	





















SYMBOL

ABBREVIATION

PIPING

-  GATE VALVE
-  GLOBE VALVE
-  BALL VALVE
-  CHECK VALVE
-  BUTTERFLY VALVE
-  SAMPLE OUT
-  OILY SEWER
-  HYDRANT PIT VALVE
-  FIRE WATER HYDRANT
-  FOAM HYDRANT
-  SELF SEALING COUPLER
-  FIRE TRUCK CONNECTION
-  AIR FOAM CHAMBER
-  FLEXIBLE HOSE OR TUBE
-  EXPANSION JOINT
-  TANK AIRFORM NOZZLE
-  Y TYPE STRAINER
-  BUCKET TYPE STRAINER
-  SURGE ABSORBER
-  INSULATION FLANGE
I.F

INSTRUMENT

-  LOCAL INSTRUMENT
-  CONTROL PANEL
-  DCS (DISTRIBUTED CONTROL SYSTEM)
-  CONTROL VALVE
-  MOTOR OPERATED VALVE
-  FLOW RESTRICTION VALVE
-  FLOW METER
-  RESTRICTION ORIFICE
-  SAFETY VALVE
-  PRESSURE REGULATING VALVE
-  PRESSURE RELEASE VALVE
-  MOTOR DRIVEN
-  MILLIPORE TEST POINTS
-  ELECTRICAL SIGNAL
-  SOFTWARE
-  OPTICAL SIGNAL
-  AUTOMATIC AIR VENT
-  AUTOMATIC DRAIN
-  FLAME ARRESTER
-  BREATHER VALVE

INSTRUMENT

- FI FLOW INDICATOR
- FC FLOW CONTROLLER
- FIC FLOW INDICATING CONTROLLER
- FICA FLOW INDICATING CONTROLLER WITH ALARM
- FQ FLOW SUMMERIZER
- FIQ FLOW INDICATING SUMMERIZER
- FQS FLOW QUANTITY CONTROLLER
- FS FLOW SWITCH
- FT FLOW TRANSMITTER
- ESS EMERGENCY SHUT DOWN SYSTEM
- ESB EMERGENCY STOP BUTTON
- FCP FIRE CALL POINT
- FFS FIRE FIGHTING SYSTEM
- TI TEMPERATURE INDICATOR
- TE TEMPERATURE ELEMENT
- TS TEMPERATURE SWITCH
- LI LEVEL INDICATOR
- LA LEVEL ALARM
- LC LEVEL CONTROLLER
- LG LEVEL GAUGE
- LIC LEVEL INDICATING CONTROLLER
- LIA LEVEL INDICATOR WITH ALARM
- LHA LEVEL HIGH ALARM
- LLA LEVEL LOW ALARM
- LS LEVEL SWITCH
- LT LEVEL TRANSMITTER
- PI PRESSURE INDICATOR
- PA PRESSURE ALARM
- PC PRESSURE CONTROLLER
- PIC PRESSURE INDICATING CONTROLLER

- PICA PRESSURE INDICATING CONTROLLER WITH ALARM
- PS PRESSURE SWITCH
- PT PRESSURE TRANSMITTER
- PDI DIFFERENTIAL PRESSURE INDICATOR
- PDS DIFFERENTIAL PRESSURE SWITCH
- SG SIGHT GLASS
- XA OIL LEAK DETECTOR
- XI PUMP STATUS
- HS REMOTE OPERATING SWITCH
- ZS POSITION SWITCH (LIMIT SWITCH)
- VVF VARIABLE VOLTAGE VARIABLE FREQUENCY

SUBSCRIPTION FOR ALARM

- HH HIGH HIGH ALARM
- H HIGH ALARM
- L LOW ALARM
- LL LOW LOW ALARM

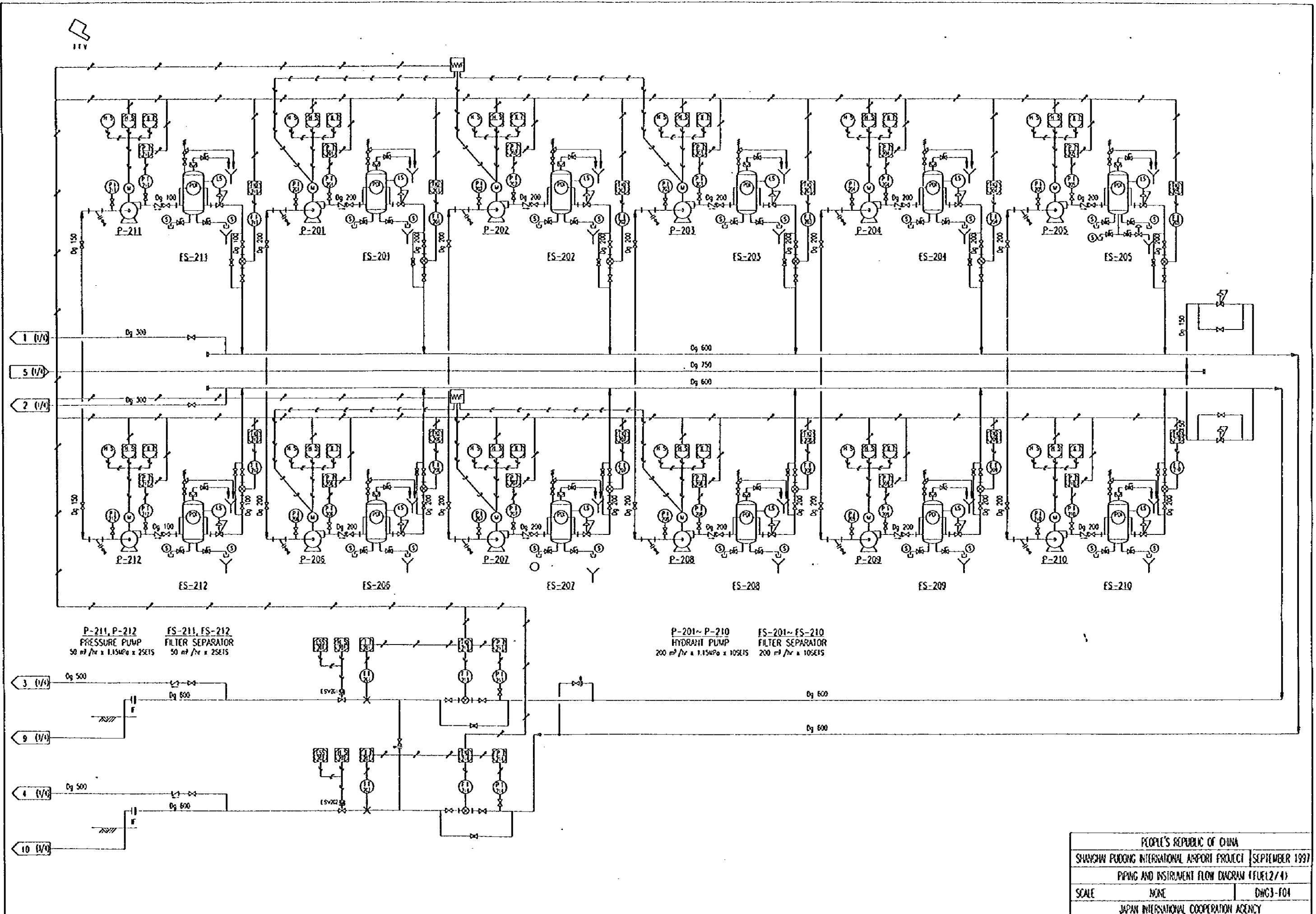
PIPING

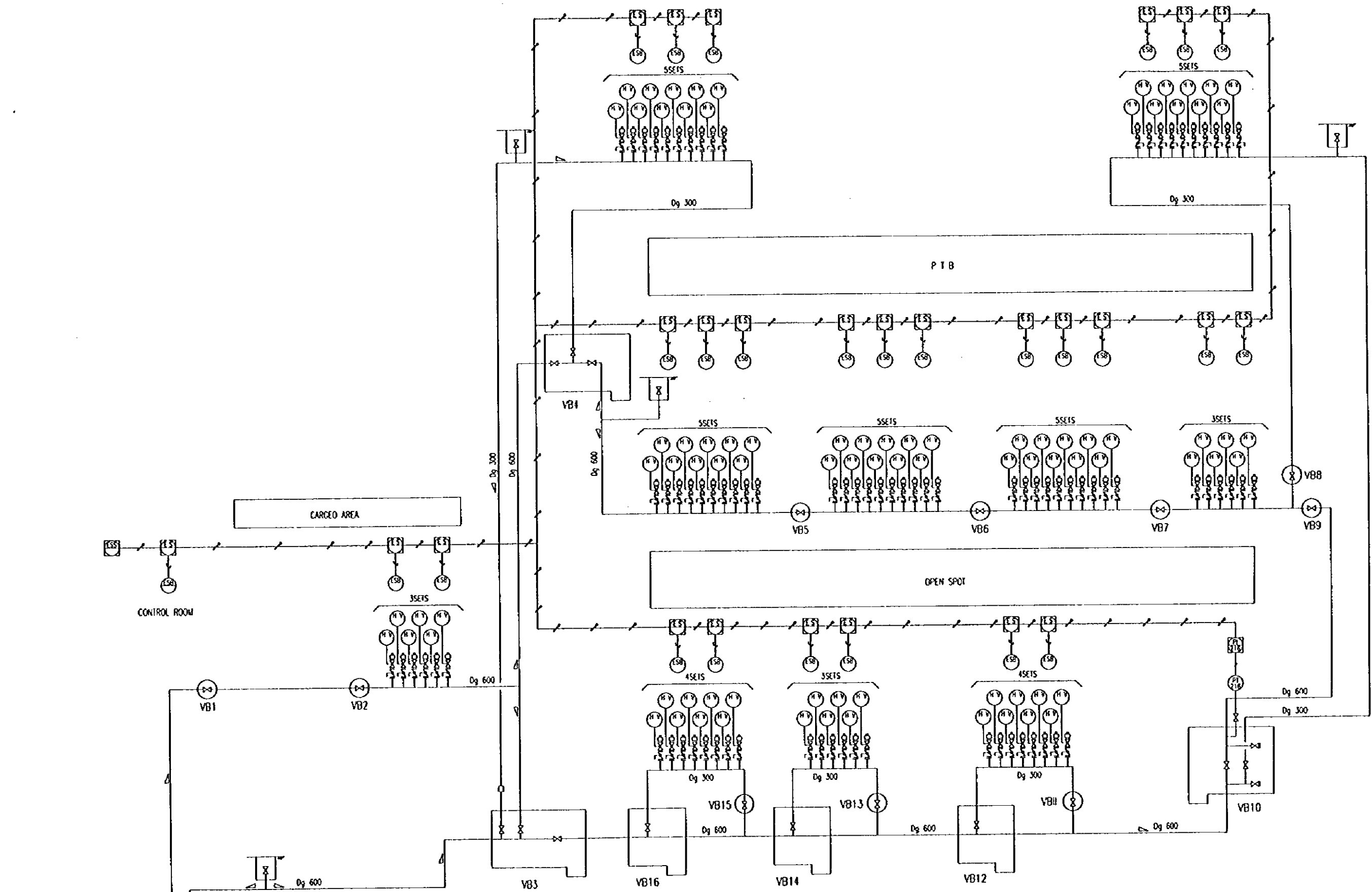
- FO FUEL OIL
- DO DIESEL OIL
- S FIRE WATER
- P₁, P₂ AIR FOAM
- SW SERVICE WATER
- DW DRINKING WATER
- HS HOSE STATION
- IA INSTRUMENT AIR
- SA SERVICE AIR

PIPELINE DIAMETER CONVERSION TABLE

MILLIMETER	INCH	MILLIMETER	INCH
Dg750	30"	Dg150	6"
Dg600	24"	Dg100	4"
Dg500	20"	Dg80	3"
Dg400	16"	Dg50	2"
Dg300	12"	Dg40	1½"
Dg250	10"	Dg25	1"
Dg200	8"		

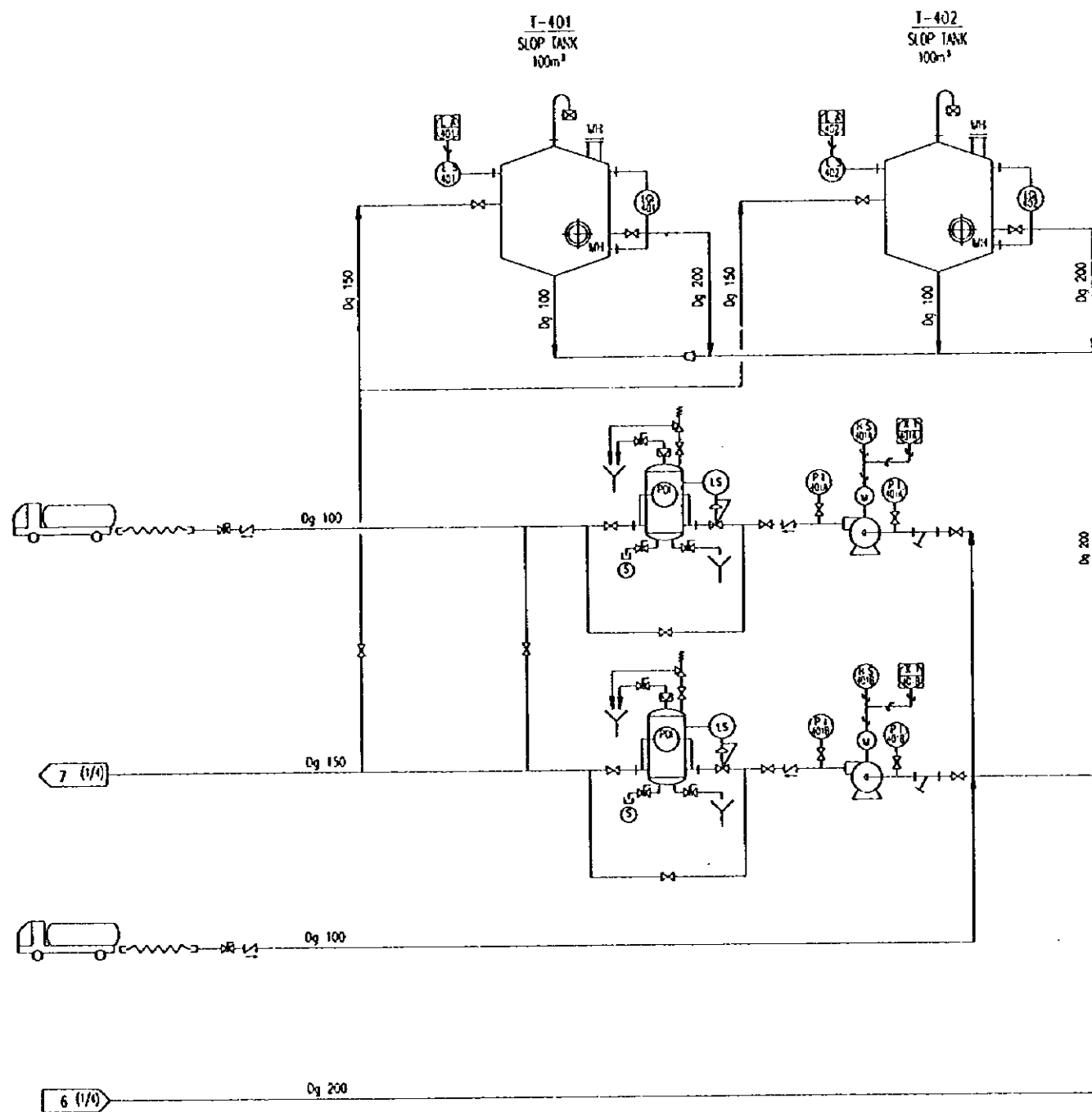
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PIPING AND INSTRUMENT FLOW DIAGRAM LEGEND	
SCALE	NONE DWG-102
JAPAN INTERNATIONAL COOPERATION AGENCY	





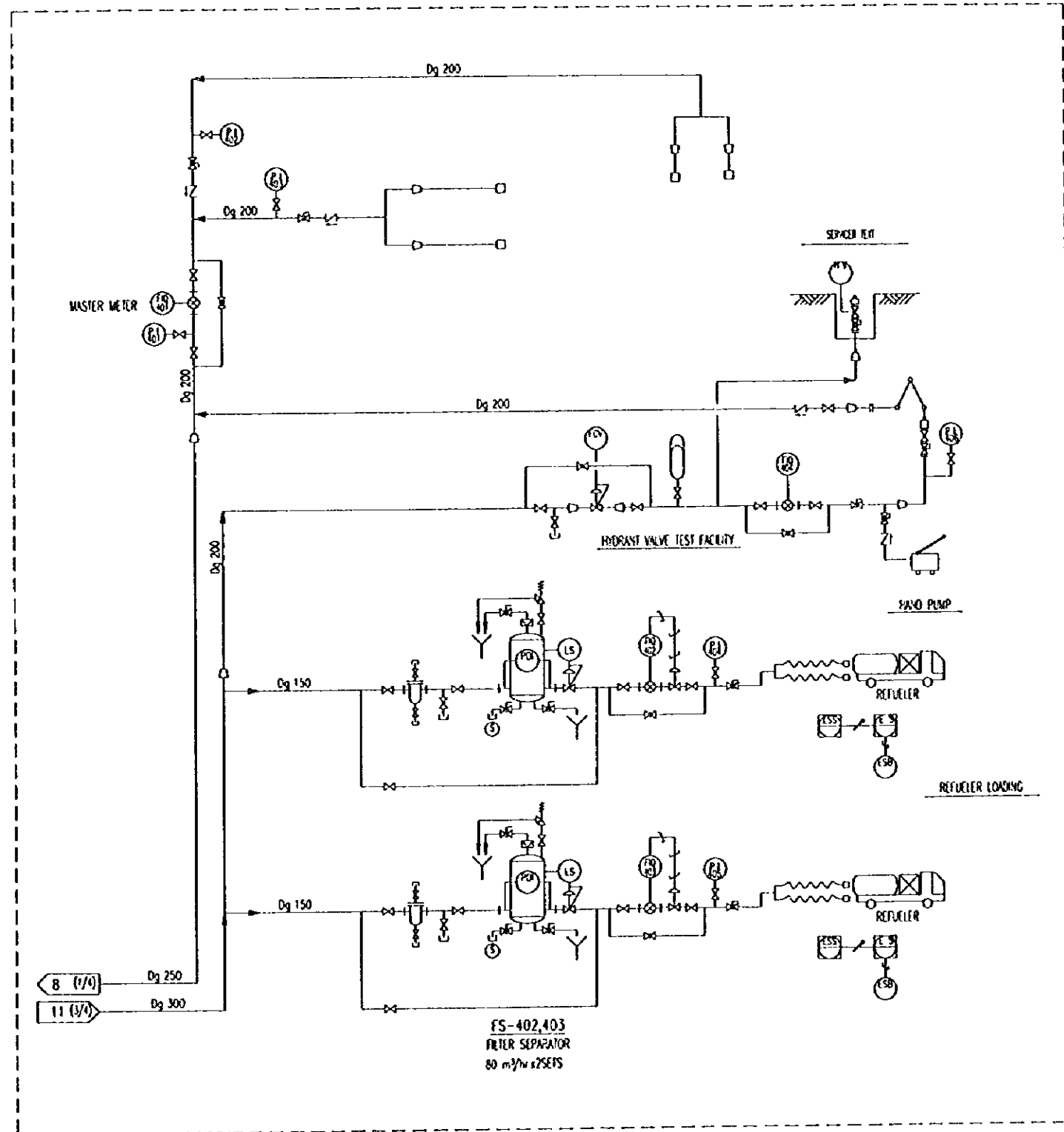
- 11 (4/4) Dg 300
- 9 (2/4) Dg 600
- 10 (2/4) Dg 600

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PIPING AND INSTRUMENT FLOW DIAGRAM (FUELS/4)		
SCALE	NONE	DWG3-F05
JAPAN INTERNATIONAL COOPERATION AGENCY		



FS-401A/B
TASK SHIFT
FILTER SEPARATOR
60m³/hr x2SETS

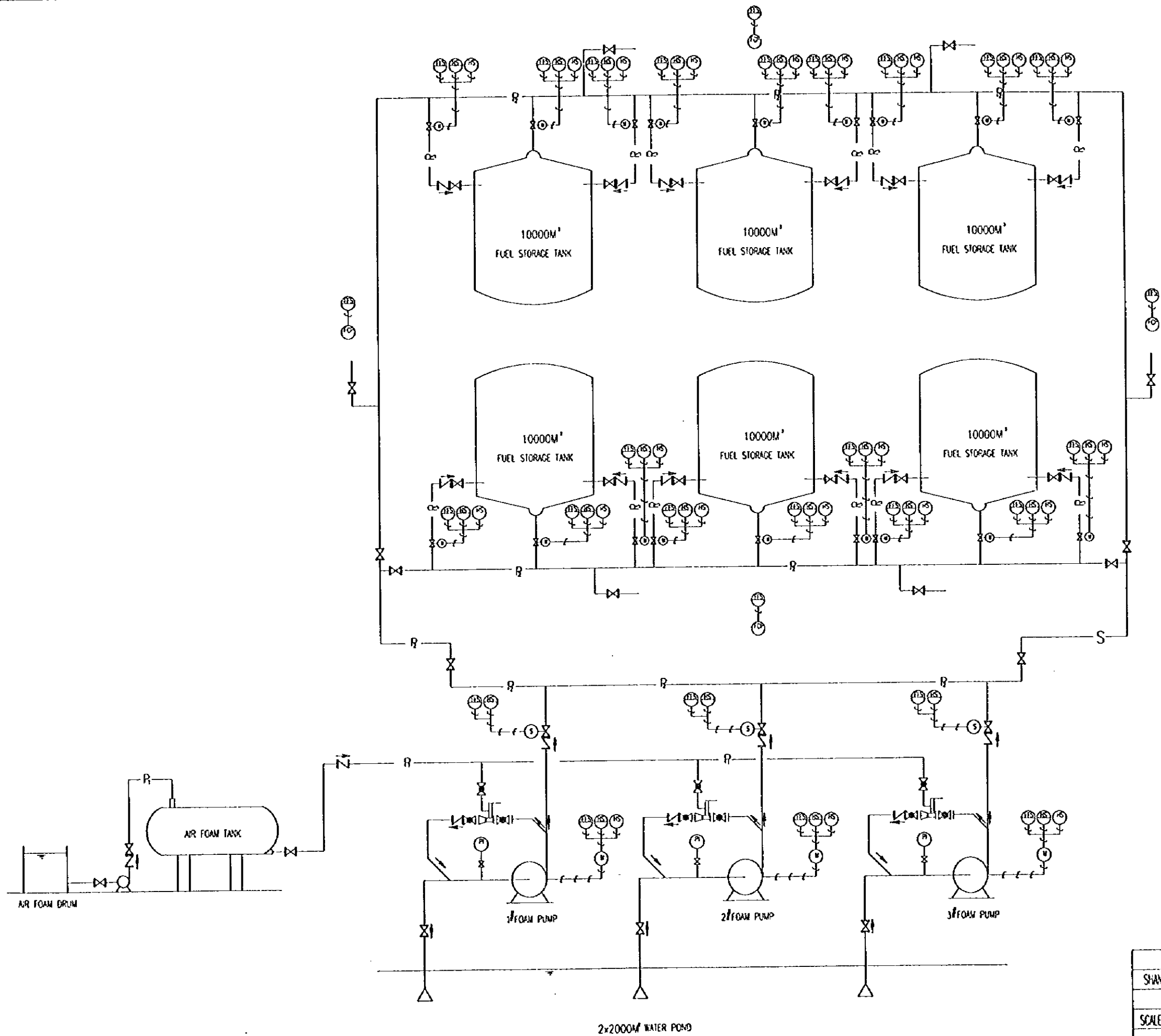
P-401A/B
SLOP LORRY
LOADING PUMP
60m³/hr @ 5MPa x2SETS



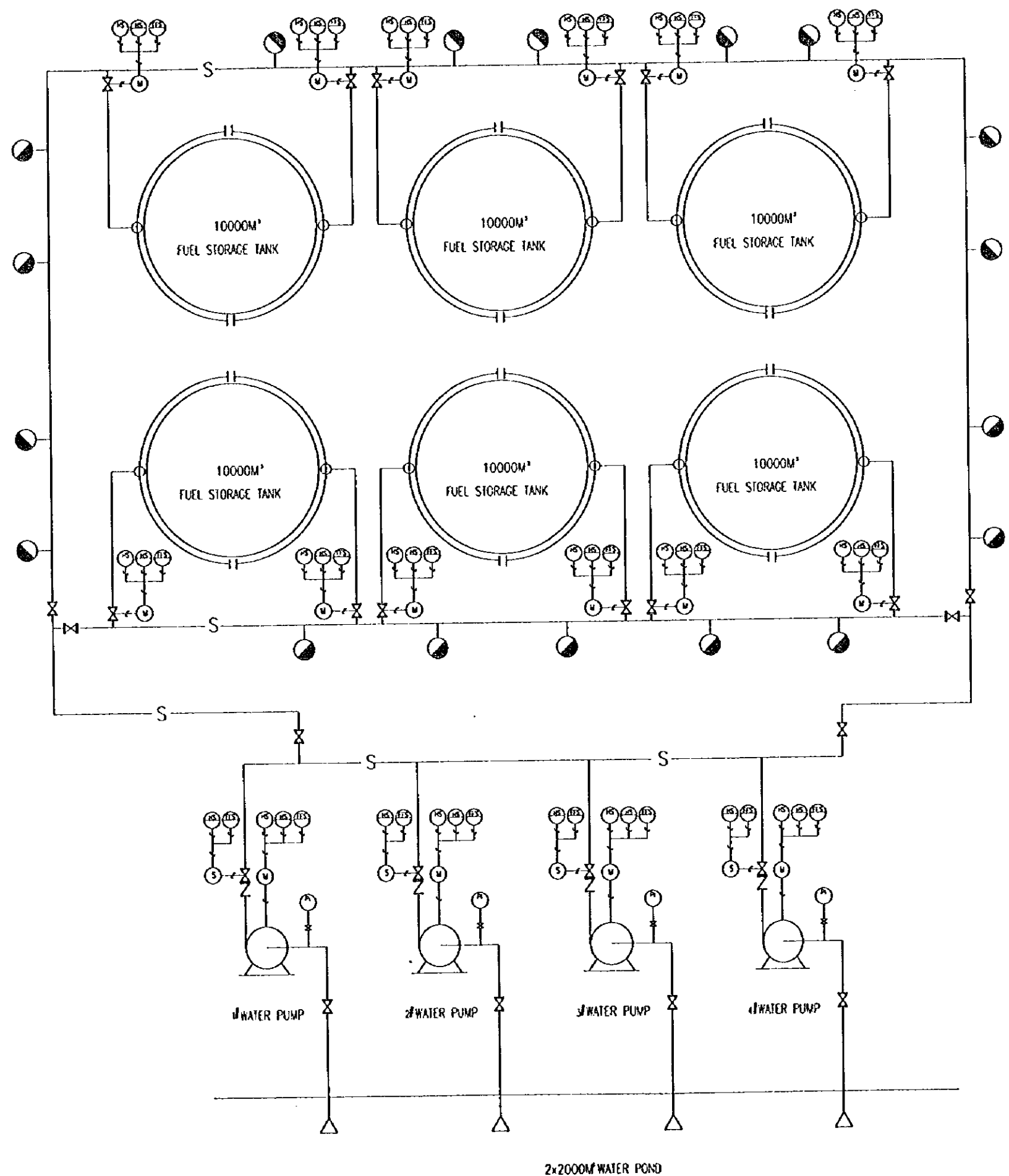
FS-402,403
FILTER SEPARATOR
60 m³/hr x2SETS

FUEL SUPPLY DEPOT

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
PIPING AND INSTRUMENT FLOW DIAGRAM (FUEL4/4)	
SCALE	NONE DWG-106
JAPAN INTERNATIONAL COOPERATION AGENCY	

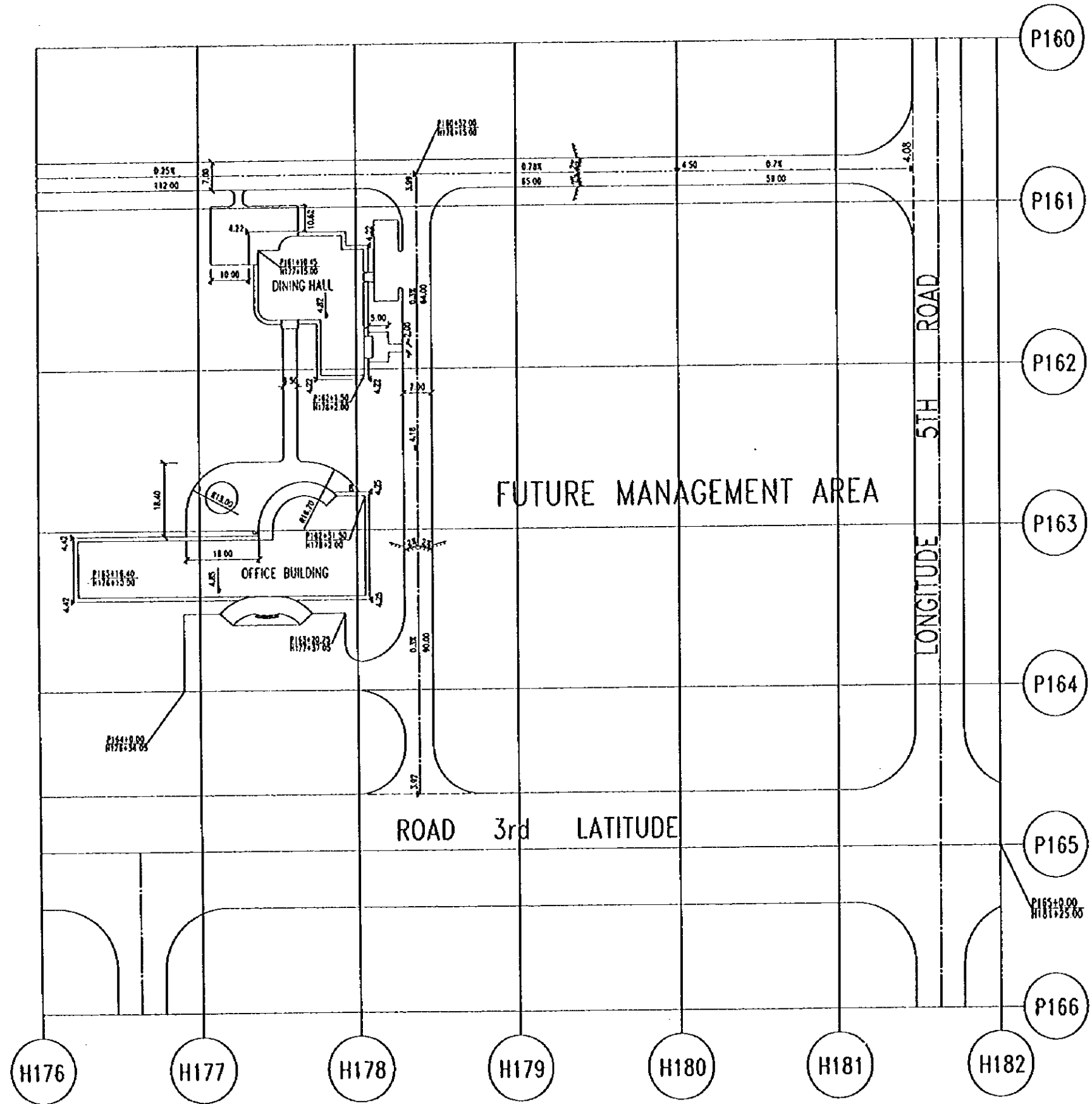
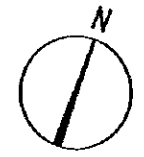
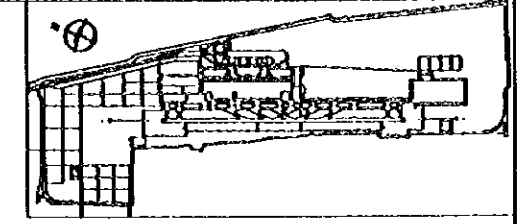


PEOPLE'S REPUBLIC OF CHINA		
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT SEPTEMBER 1997		
PIPING AND INSTRUMENT FLOW DIAGRAM (FIRE1/2)		
SCALE	NONE	DWG3-F07
JAPAN INTERNATIONAL COOPERATION AGENCY		



PEOPLE'S REPUBLIC OF CHINA		
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT		SEPTEMBER 1997
PIPING AND INSTRUMENT FLOW DIAGRAM (FIRE2/2)		
SCALE	NONE	DWG3-F08
JAPAN INTERNATIONAL COOPERATION AGENCY		

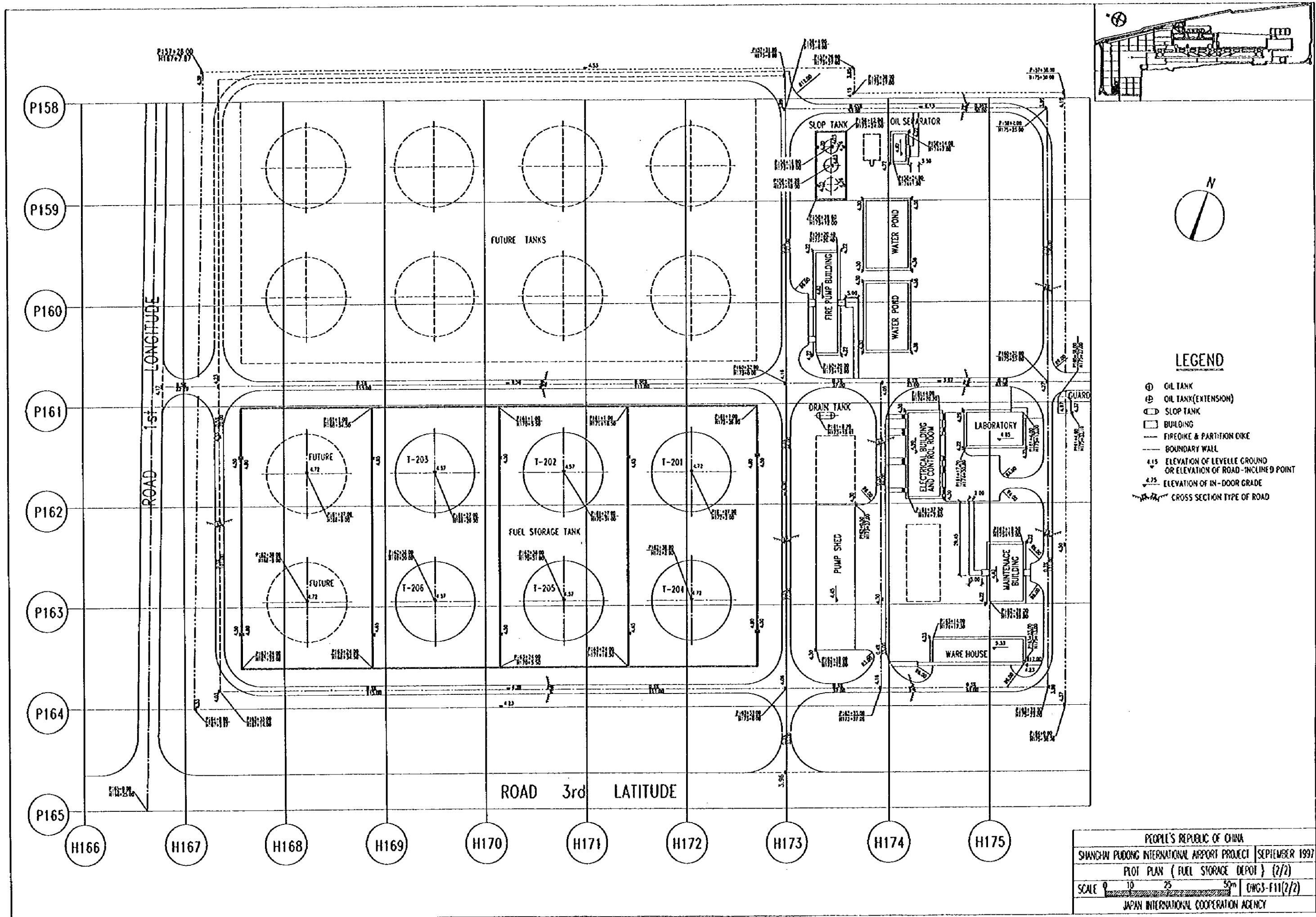
2x2000M³ WATER POND



LEGEND

- BUILDING
- BOUNDARY WALL
- ELEVATION OF LEVELLE GROUND OR ELEVATION OF ROAD-INCLINED POINT
- ELEVATION OF IN-DOOR GRADE
- CROSS SECTION TYPE OF ROAD

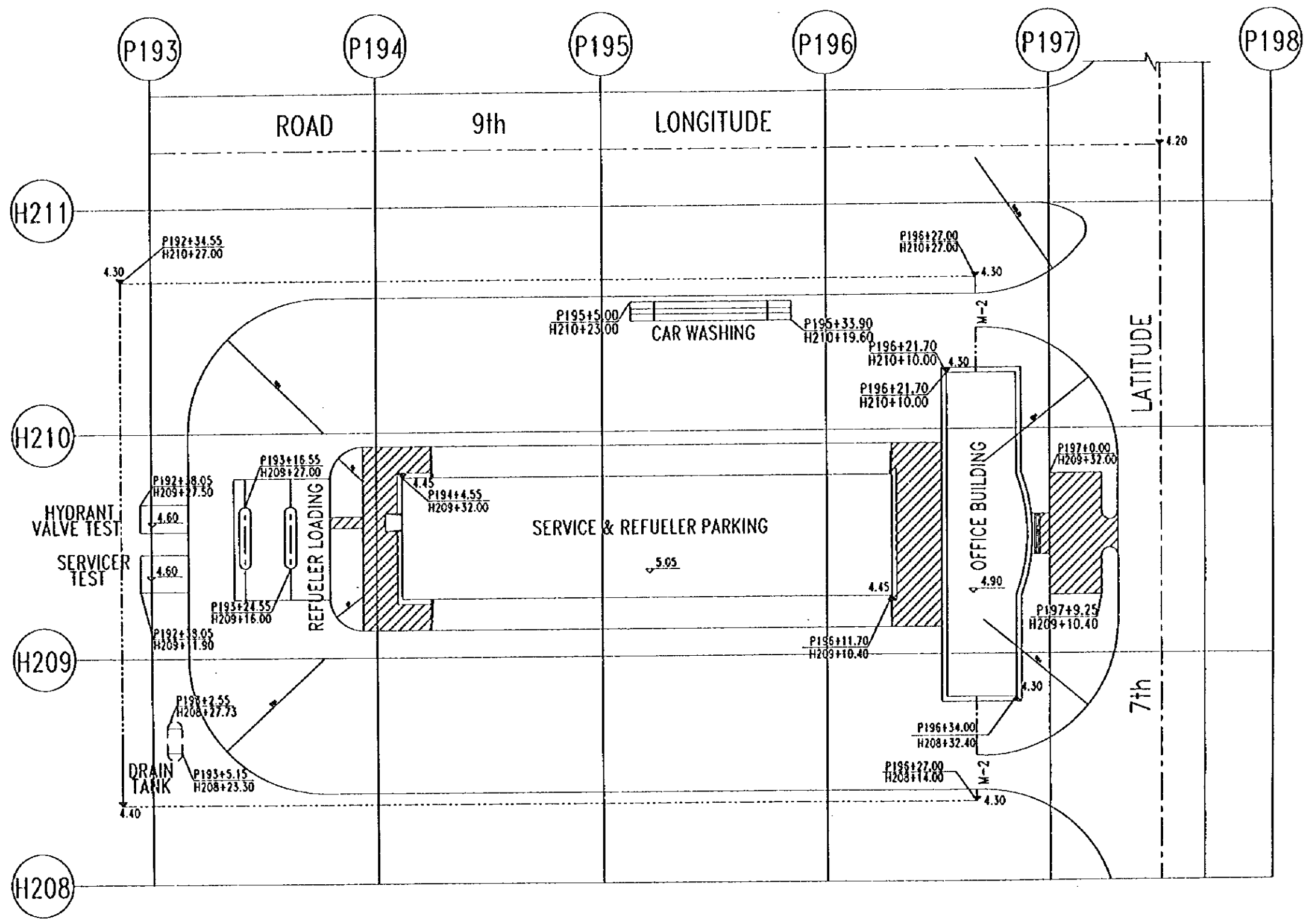
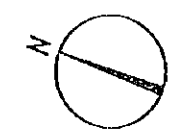
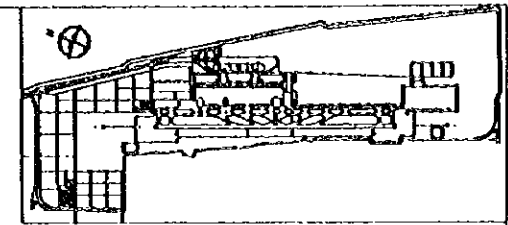
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
PLOT PLAN (FUEL STORAGE DEPOT) (1/2)	
SCALE	DWG3-F11(1/2)
JAPAN INTERNATIONAL COOPERATION AGENCY	



LEGEND

- ⊕ OIL TANK
- ⊕ OIL TANK(EXTENSION)
- ⊖ SLOP TANK
- ▭ BUILDING
- FIRE DIKE & PARTITION DIKE
- BOUNDARY WALL
- 4.15 ELEVATION OF LEVELLE GROUND OR ELEVATION OF ROAD - INCLINED POINT
- 4.75 ELEVATION OF IN-DOOR GRADE
- CROSS SECTION TYPE OF ROAD

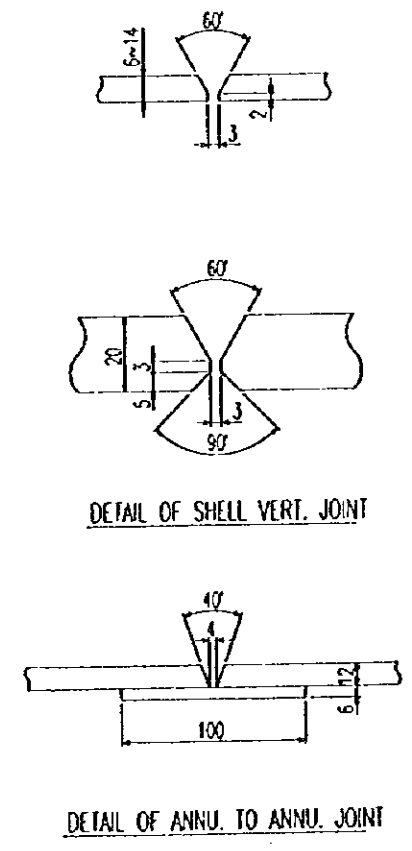
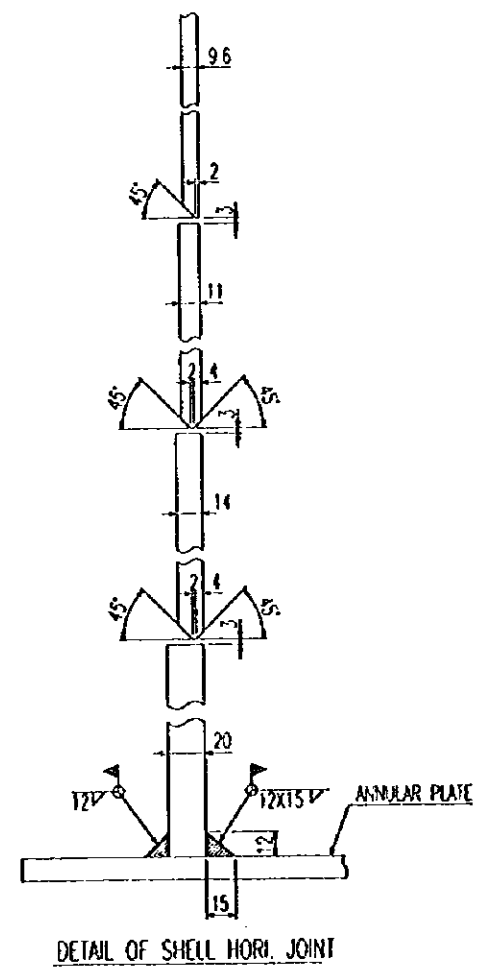
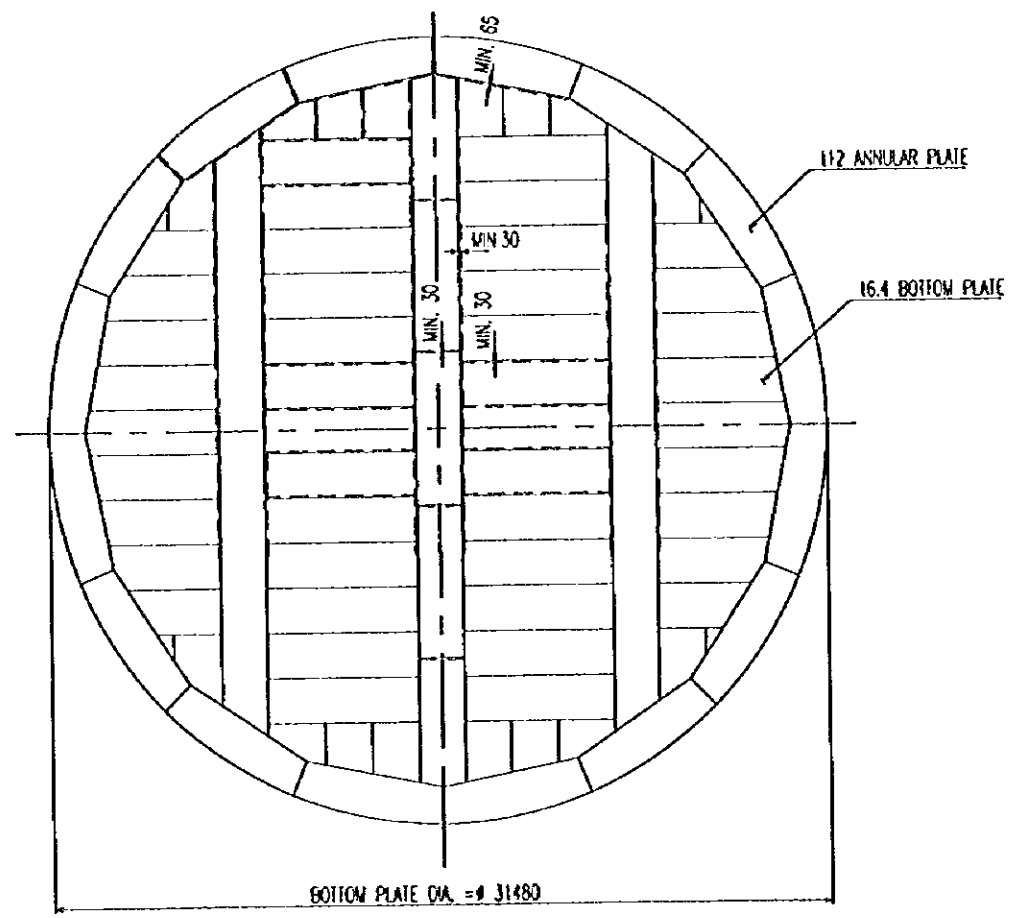
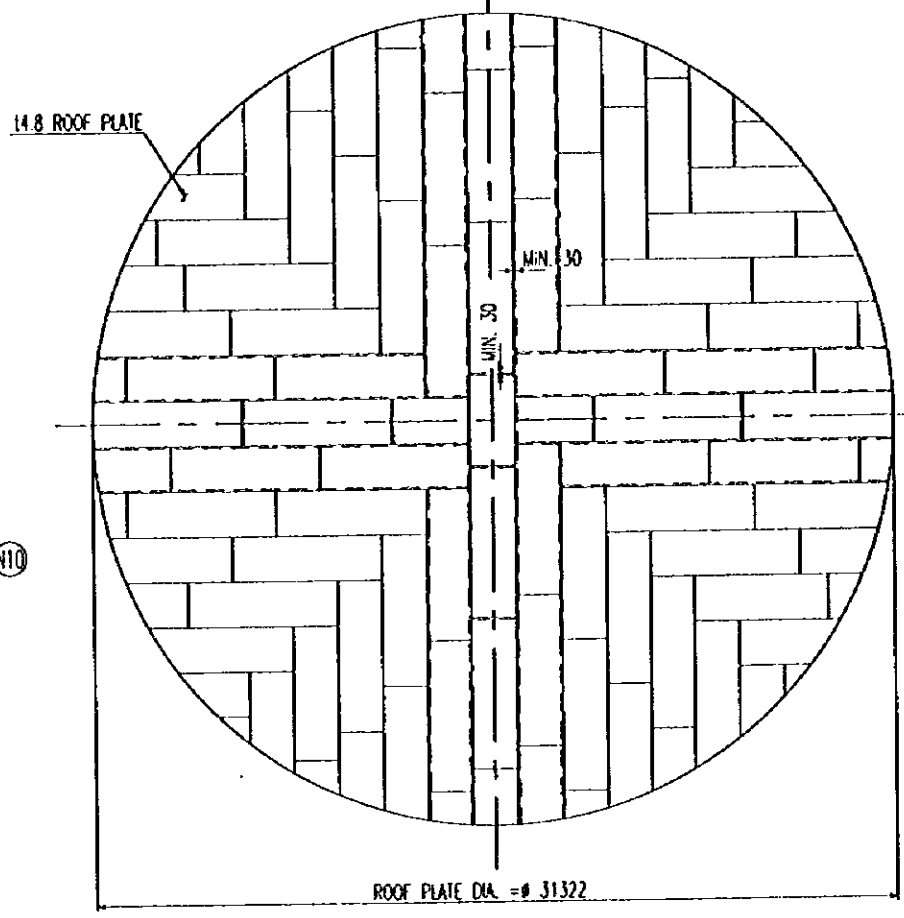
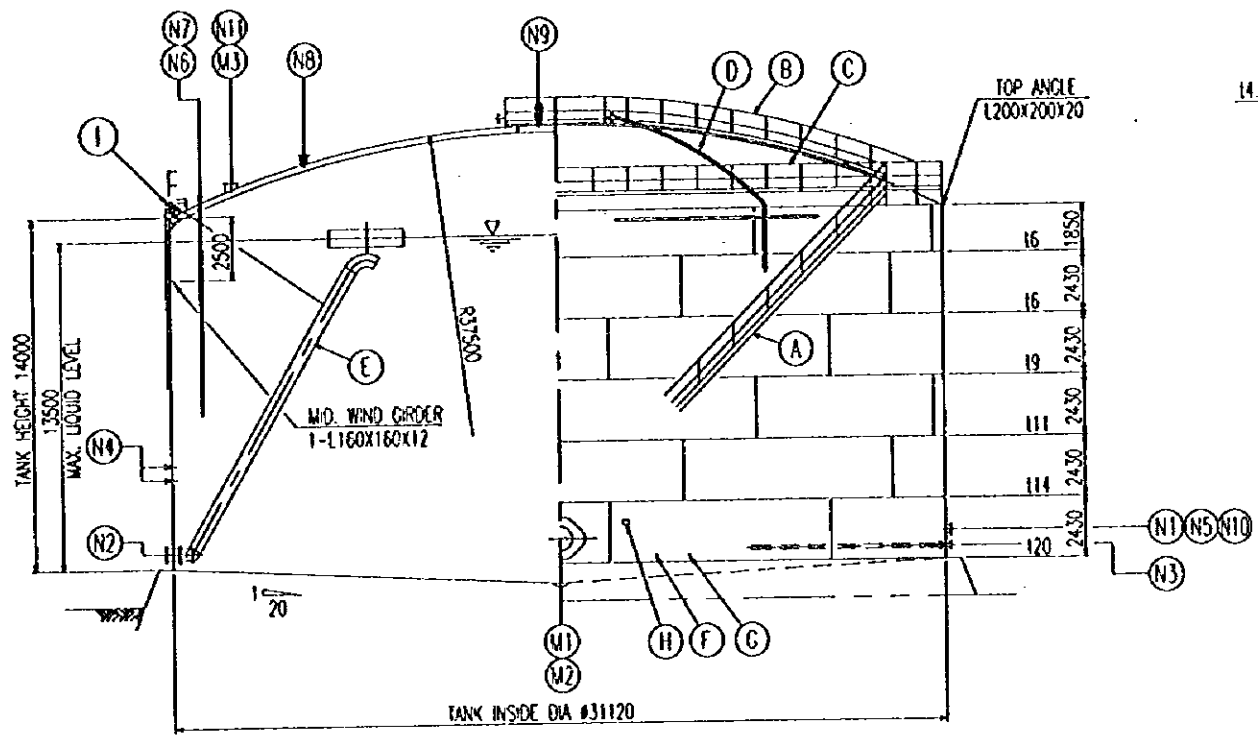
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
PLOT PLAN (FUEL STORAGE DEPOT) (2/2)	
SCALE 0 10 25 50m	DWG-F11(2/2)
JAPAN INTERNATIONAL COOPERATION AGENCY	



LEGEND

- SIDE WALK
- BUILDING
- PAVEMENT OF CONCRETE PRE-CAST BLOCK
- DRAIN TANK
- BOUNDARY WALL
- $\nabla 4.25$ ELEVATION OF IN-DOOR
- $\nabla 4.5$ ELEVATION OF LEVELLE GROUND OR ELEVATION OF ROAD INCLINED POINT
- $\frac{1.5\%}{48.00}$ LONGITUDINAL SLOPE OF ROAD(%) SLOPE LENGTH(M)

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT (SEPTEMBER 1997)	
PLOT PLAN (FUEL SUPPLY DEPOI)	
SCALE $\frac{1}{10}$ $\frac{1}{20}$ $\frac{1}{50}$ m	DWG3-F12
JAPAN INTERNATIONAL COOPERATION AGENCY	



DESIGN CONDITION

CODE	JAPI 650	CORROSION ALLOWANCE	900 mm ONLY SHELL
CAPACITY (NET WORKING)	10,000 m ³	DESIGN PRESSURE	38 mmHg
NO. OF REQ'D	8	DESIGN METAL TEMP.	-1.6 °C
SERVICE(S)	RP3 (0.78)	STORAGE TEMPERATURE	AMB
FLASH POINT	ABOVE 38 °C	PUMPING RATES : IN	360 m ³ /hr
		PUMPING RATES : OUT	2000 m ³ /hr

DESIGN LOAD

EARTHQUAKE		WIND	
DESIGN CODE	JAPAN FIRE LAW	DESIGN CODE	JAPI 650
ZONE FACTOR	0.7	WIND VELOCITY	44.7 m/s
SITE FACTOR	2.0 (J=1.1)	SHAPE FACTOR	0.7
		SNOW LOAD	28 kg/m ²
		SAND LOAD	0 kg/m ²

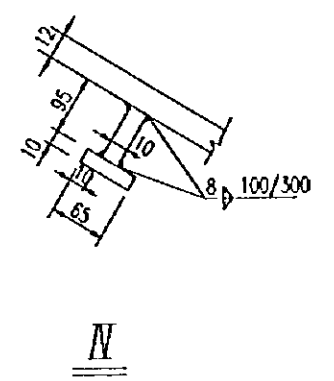
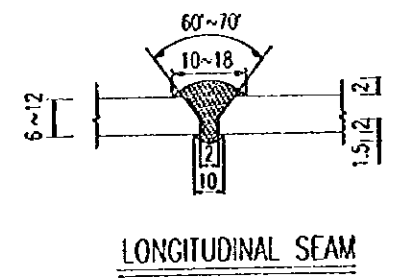
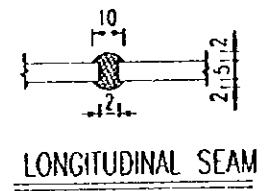
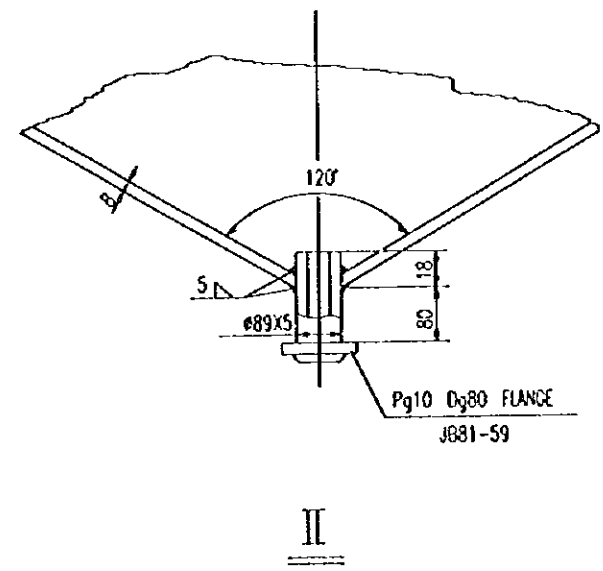
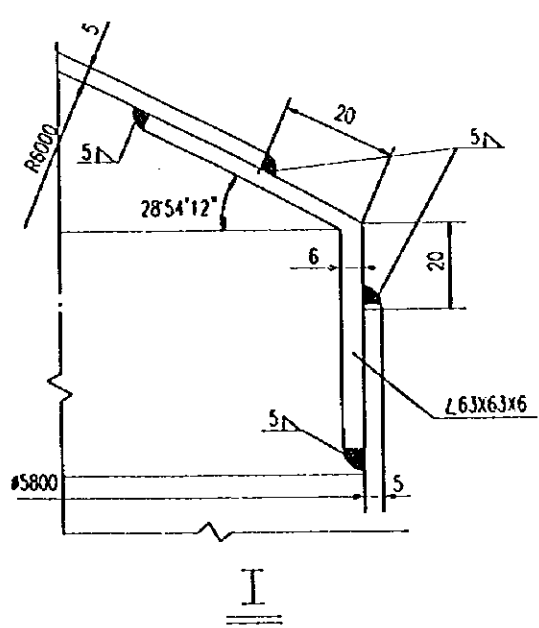
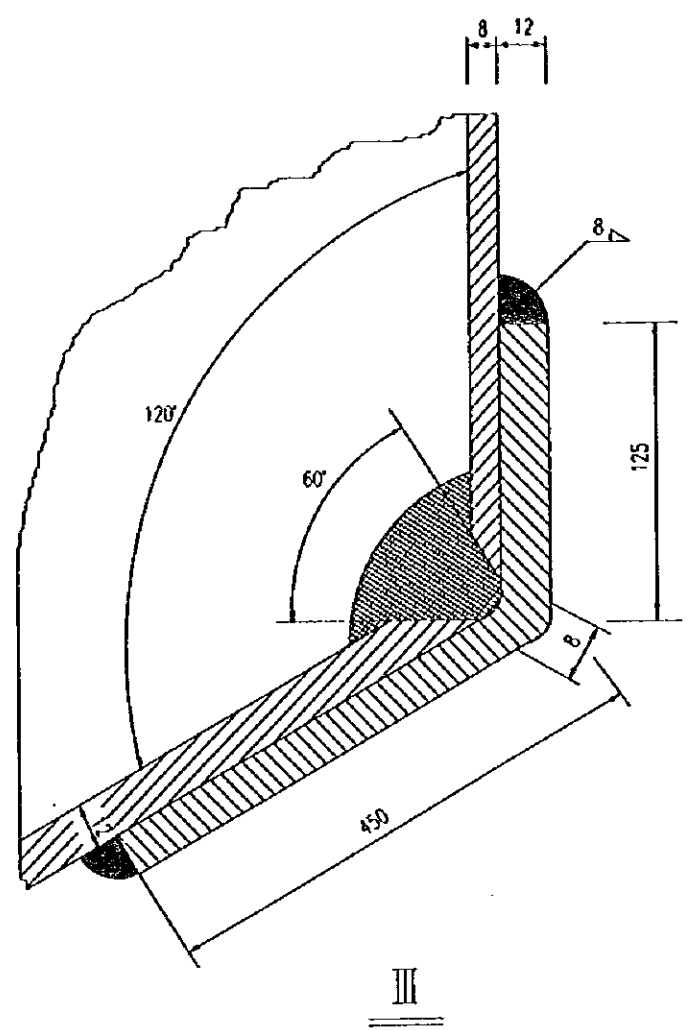
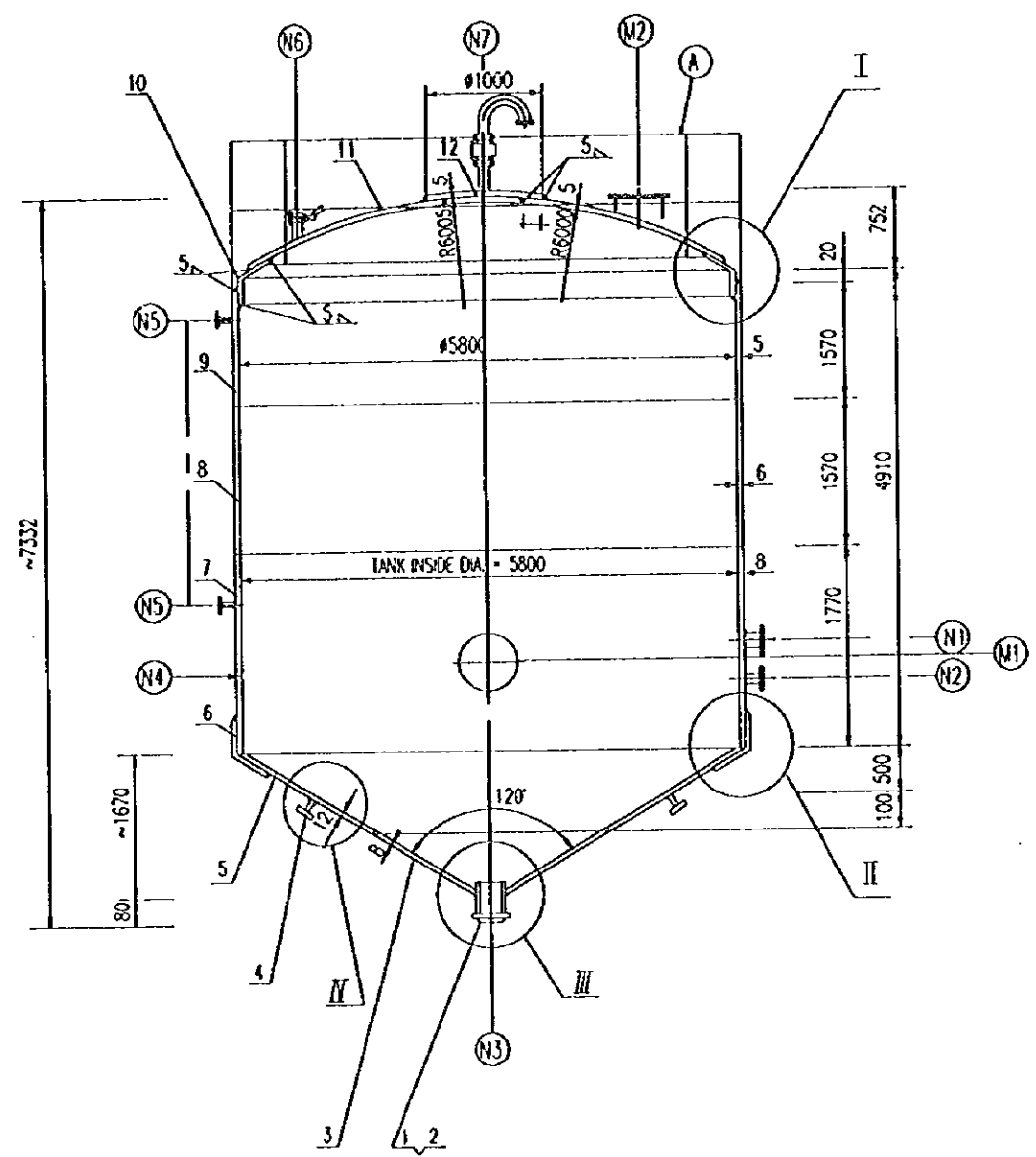
MATERIAL SPECIFICATION

SHELL PLATE	CARBON STEEL	Q235-A/F (GB700) OR ASTM WTL EQ.
ANNULAR PLATE		Q235-A/F (GB700) OR ASTM WTL EQ.
ROOF PLATE		Q235-A/F (GB700) OR ASTM WTL EQ.
BOTTOM PLATE		Q235-A/F (GB700) OR ASTM WTL EQ.
STRUCTURE		GB17-88 OR ASTM WTL EQ.
NOZZLE NECK		20 (GB8163) OR ASTM WTL EQ.
INTERNAL PIPE		20 (GB8163) OR ASTM WTL EQ.
FLANGE		
BOLT & NUT	CARBON STEEL	Q235-A (GB700) OR ASTM WTL EQ.
CASKET		ASBESTOS
PIPE		CARBON STEEL (AIRFORM & WATER DRENCHER)
PAINTING (INTERNAL)		EPOXY RESIN (TOTAL MIN. 210)

NOZZLE, MANHOLE AND ACCESSORIES TABLE

No.	DESCRIPTION	SIZE	QTY	REMARKS
M1	SHELL MANHOLE	Dg 750	1	
M2	SHELL MANHOLE	Dg 600	1	
M3	ROOF MANHOLE	Dg 500	3	
N1	INLET	Dg 500	1	
N2	SUCTION	Dg 500	2	W/FLOAT SUCTION
N3	PRODUCT DRAIN	Dg 100	1	W/INNER PIPE
N4	LEVEL SWITCH	Dg 50	2	
N5	AIR FORM	Dg 200	4	SUBSURFACE INJECTION
N6	LI	Dg 150	1	
N7	LI	Dg 50	1	AV TYPE
N8	GAUGE HATCH	Dg 200	1	W/COVER
N9	ROOF VENT	Dg 250	4	W/BV & F.A.
N10	SAMPLING	Dg 50	1	
N11	EMERGENCY VENT	Dg 600	1	W/COVER
A	SPIRAL STAIRWAY		1SET	STRINGER TYPE
B	ROOF WALKWAY		1SET	
C	ROOF HANDRAIL		1SET	ALL AROUND
D	WATER DRENCHER SYSTEM		1SET	
E	FLOAT SUCTION		2SETS	
F	EARTH PIECE		4	
G	SETTLEMENT PIECE		20	
H	NAME PLATE		1	
I	CABLE SHEAVE CASE		1SET	GAS TIGHT TYPE

PEOPLE'S REPUBLIC OF CHINA
 SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997
 10,000³ FUEL STORAGE TANK
 SCALE NONE DWG-J-F21
 JAPAN INTERNATIONAL COOPERATION AGENCY



DESIGN CONDITION

CODE	API 650	CORROSION ALLOWANCE	1 mm (OUTER SHELL)
	SH3046-92	DESIGN PRESSURE	50-200 mmHg
CAPACITY (NET WORKING)	100 m ³	DESIGN METAL TEMP.	-1.6 °C
NO. OF REQ'D	2	STORAGE TEMPERATURE	AW3
SERVICE(S)	SLOP OIL	PUMPING RATES : IN	60 m ³ /hr
FLASH POINT	ABOVE 38 °C	PUMPING RATES : OUT	60 m ³ /hr

DESIGN LOAD

EARTHQUAKE		WIND	
DESIGN CODE	SH3046-92	DESIGN CODE	API 650
ZONE FACTOR	0.7	WIND VELOCITY	44.7 m/s
SITE FACTOR	2.0 (I=1.1)	SHAPE FACTOR	0.7
		SNOW LOAD	28 kg/m ²
		SAND LOAD	0 kg/m ²

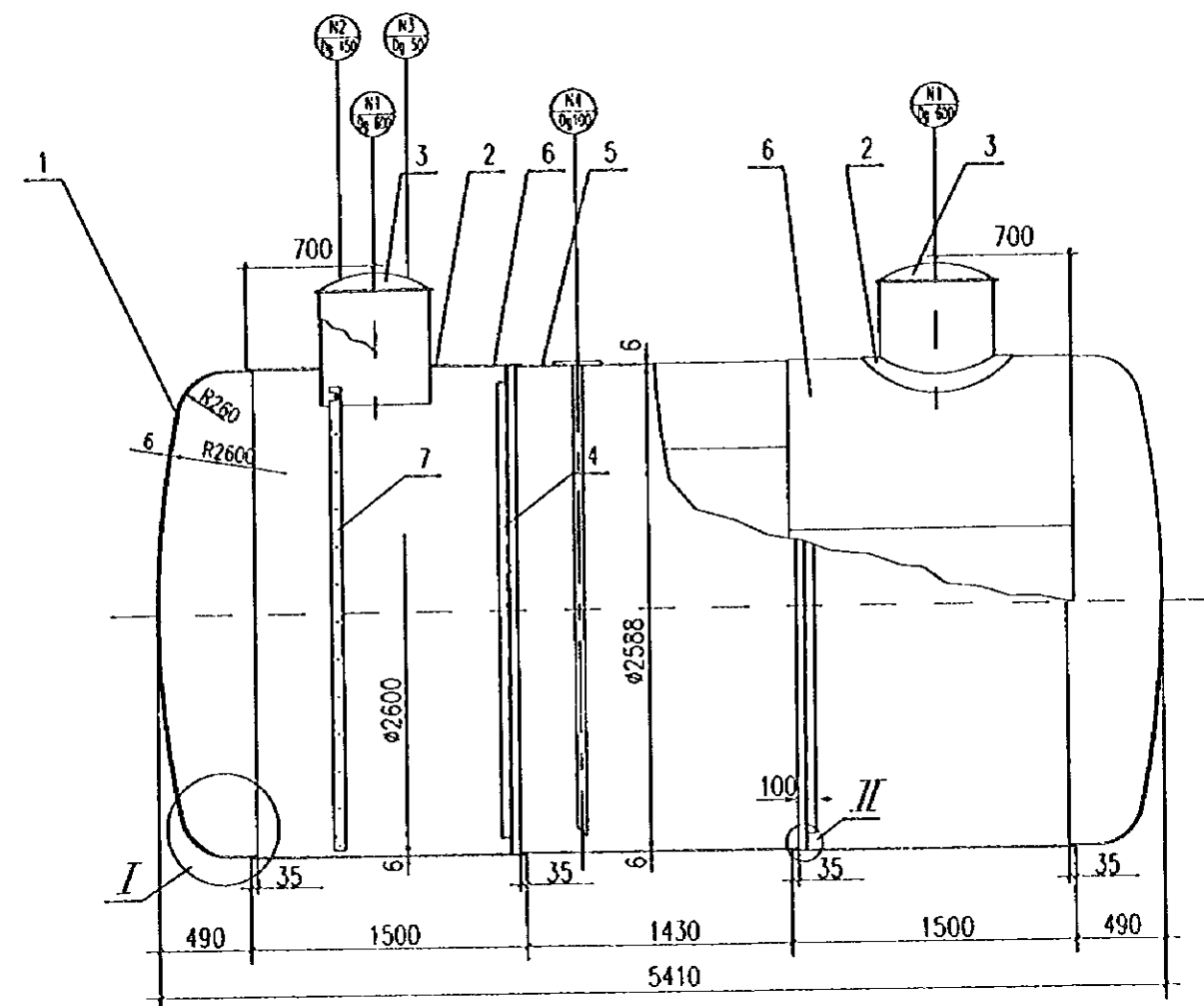
MATERIAL SPECIFICATION

SHELL PLATE	CARBON STEEL	Q235 A (GB700) OR ASTM WTL EQ.
ROOF PLATE		Q235 A (GB700) OR ASTM WTL EQ.
BOTTOM PLATE		Q235 A (GB700) OR ASTM WTL EQ.
STRUCTURE		GB117-88 OR ASTM WTL EQ.
NOZZLE NECK		20 (GB8163) OR ASTM WTL EQ.
INTERNAL PIPE		20 (GB8163) OR ASTM WTL EQ.
FLANGE		
BOLT & NUT	CARBON STEEL	Q235 A (GB700) OR ASTM WTL EQ.
GASKET		ASBESTOS
PIPE		CARBON STEEL
PAINTING (INTERNAL)		EPOXY RESIN (TOTAL W.N. 210 μ)

NOZZLE, MANHOLE AND ACCESSORIES TABLE

No.	DESCRIPTION	SIZE	QTY	REMARKS
M1	SHELL MANHOLE	Dg 600	1	
M2	ROOF MANHOLE	Dg 500	1	
N1	INLET	Dg 150	1	
N2	SUCTION	Dg 200	1	
N3	PRODUCT DRAIN	Dg 100	1	W/INNER PIPE
N4	LEVEL SWITCH	Dg 50	1	
N5	GAUGE GLASS	Dg 50	6	
N6	GAUGE HATCH	Dg 150	1	W/COVER
N7	ROOF VENT	Dg 100	1	W/F.A
A	ROOF HANDRAIL		1 SET	ALL AROUND

PEOPLE'S REPUBLIC OF CHINA
 SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997
 100M³ SLOP TANK
 SCALE NONE DWG3-F22
 JAPAN INTERNATIONAL COOPERATION AGENCY



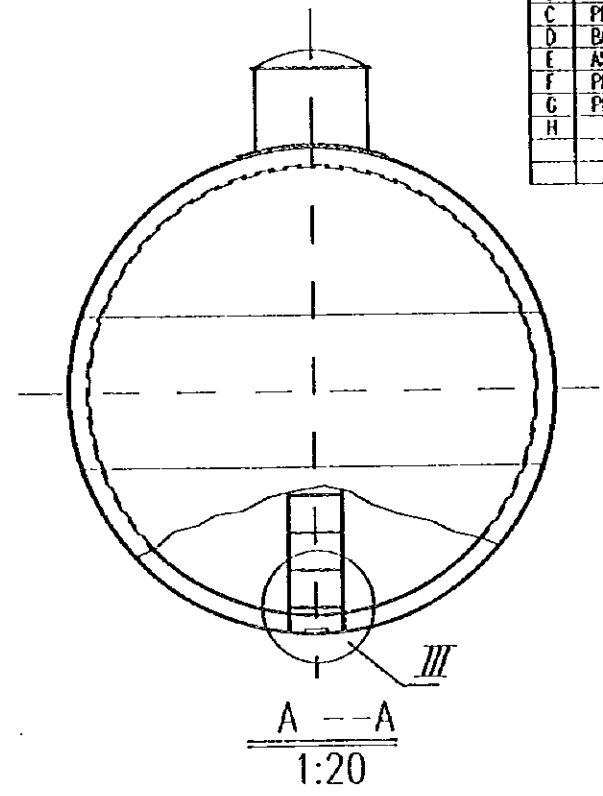
DESIGN CONDITION

CODE	ASME SEC VB
CAPACITY	25 m ³
NO. OF REQ'D	2
SERVICE(S.G.)	DRAIN OIL (1.0)
DESIGN PRESS.	ATMOS
DESIGN TEM.	AMB.
MATERIAL	CARBON STEEL

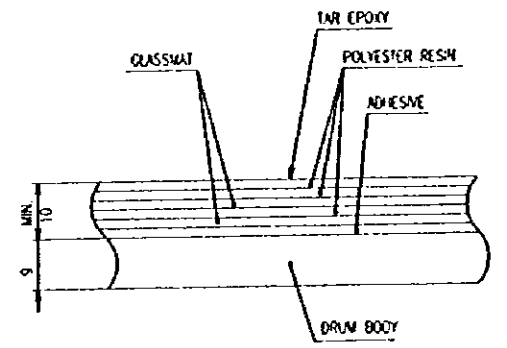
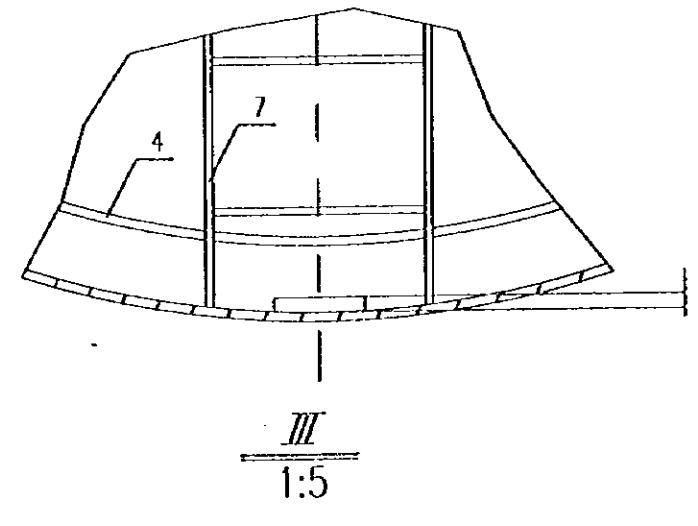
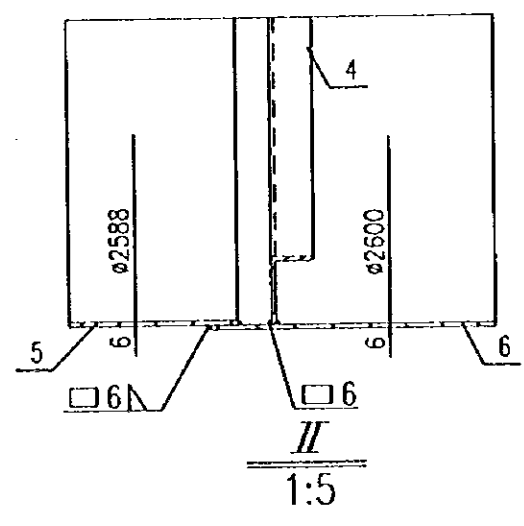
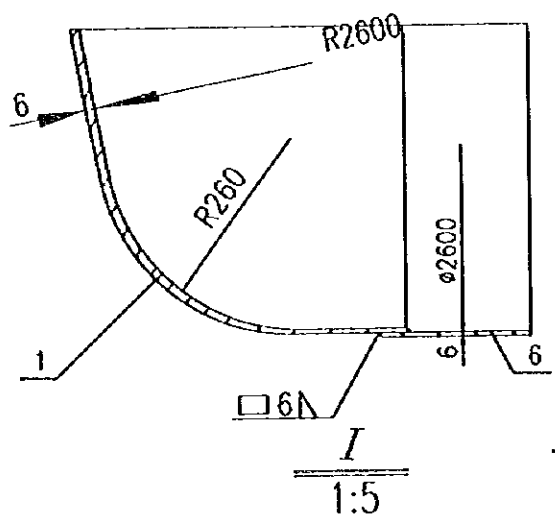
NOZZLE MANHOLE AND ACCESSORIES TABLE

No.	DESCRIPTION	SIZE	QTY	REMARKS
N1	INLET	Ø150	1	
N2	GAUGE HATCH	Ø150	1	
N3	VENT	Ø50	1	
N4	INLET	Ø80	1	
A	LIFTING LUG		4	
B	PROTECTOR	Ø800	1	
C	PROTECTOR	Ø500	2	
D	BAND		4	W/TEFLON SHIT
E	ANCHOR BOLT		4	M16
F	PROTECTOR	Ø840	1	
G	PROTECTOR	Ø540	2	
H				

A|

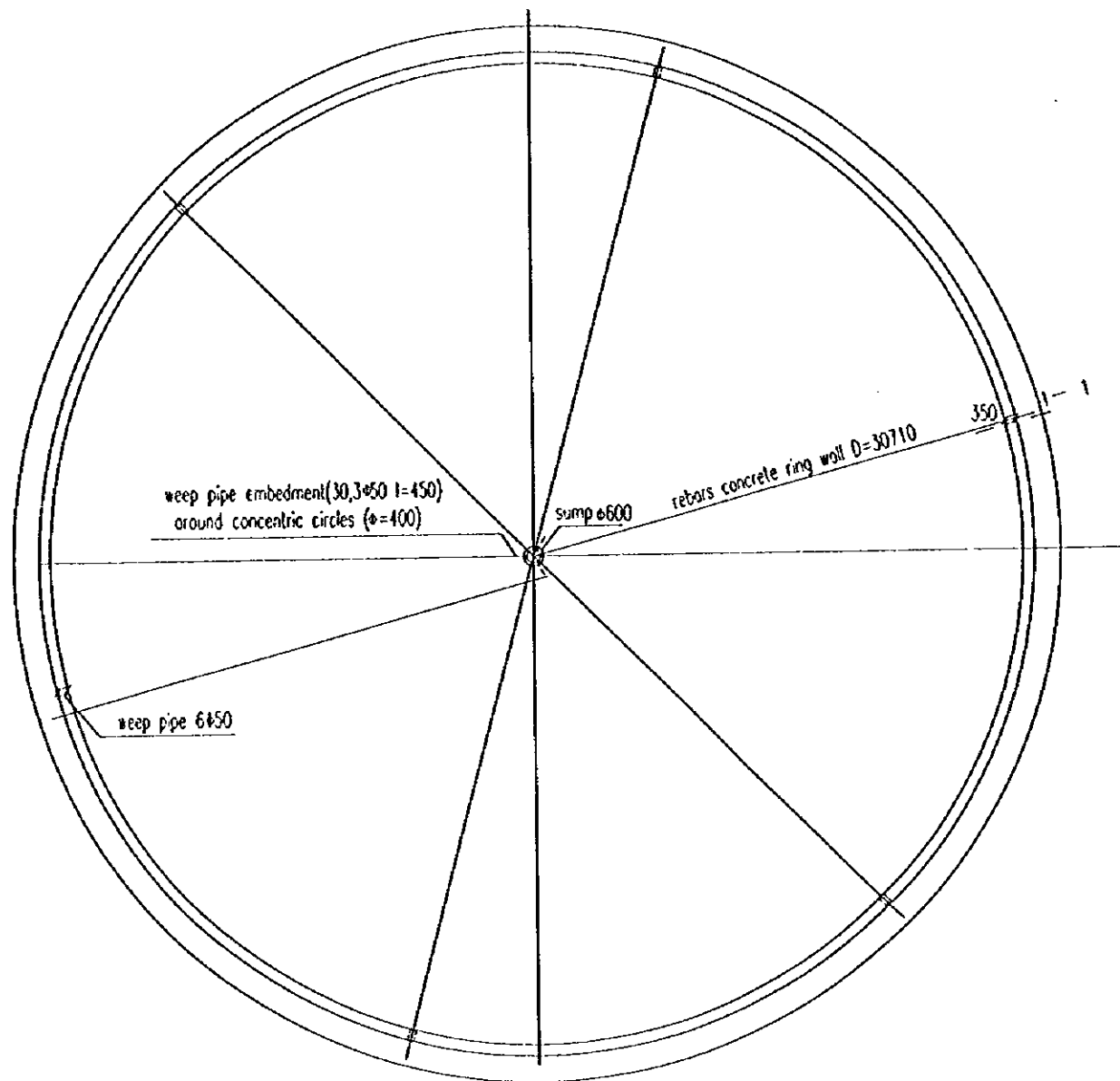


|A

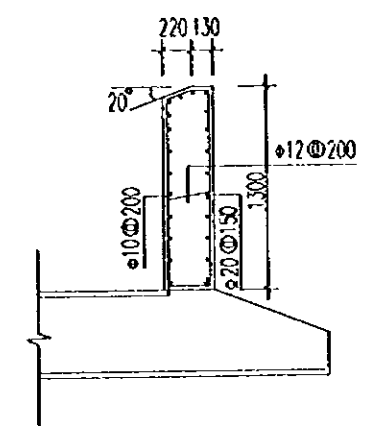


PROTECTION FOR DRUM OUTER SURFACE

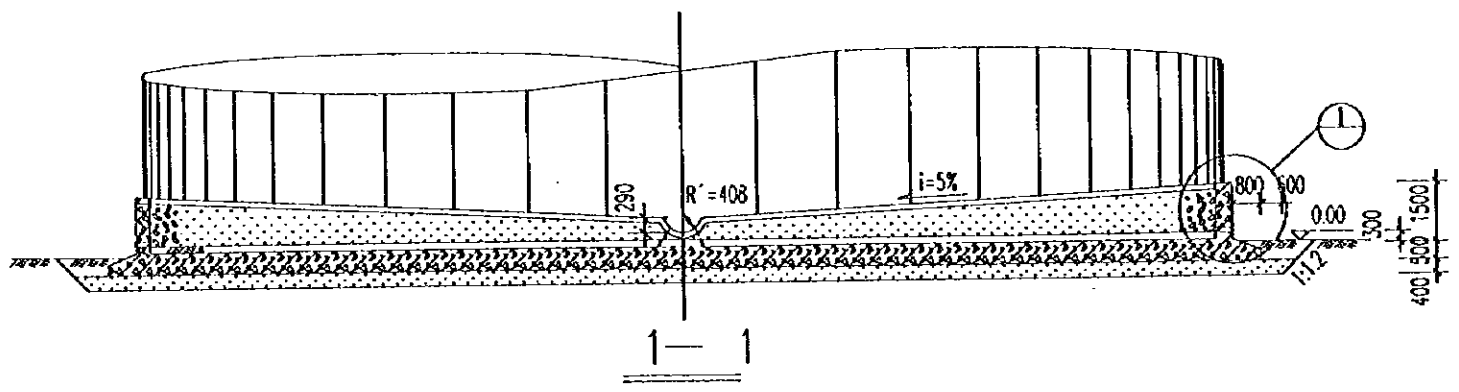
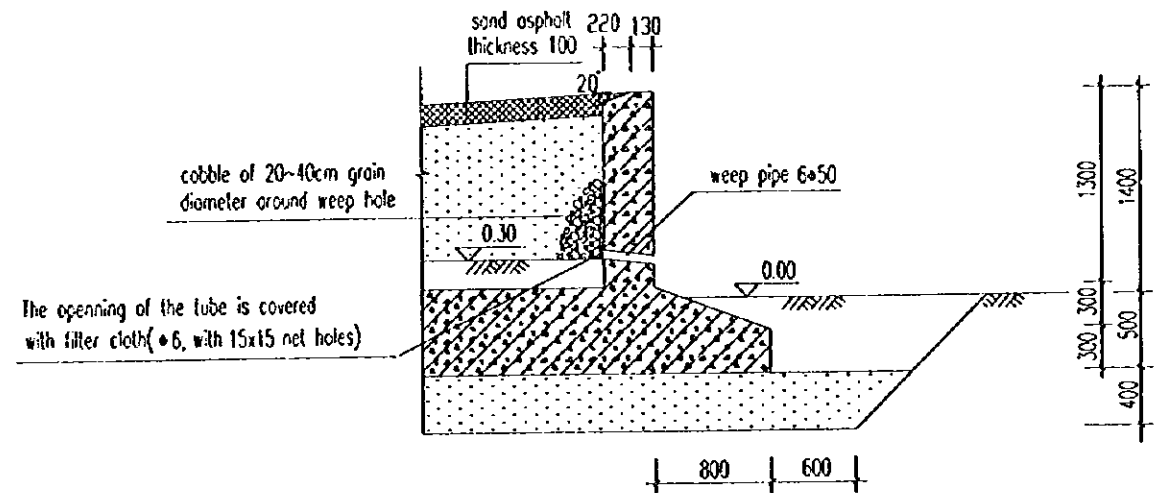
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT SEPTEMBER 1997	
25m ³ DRAIN DRUM	
SCALE	DWG-F23
JAPAN INTERNATIONAL COOPERATION AGENCY	



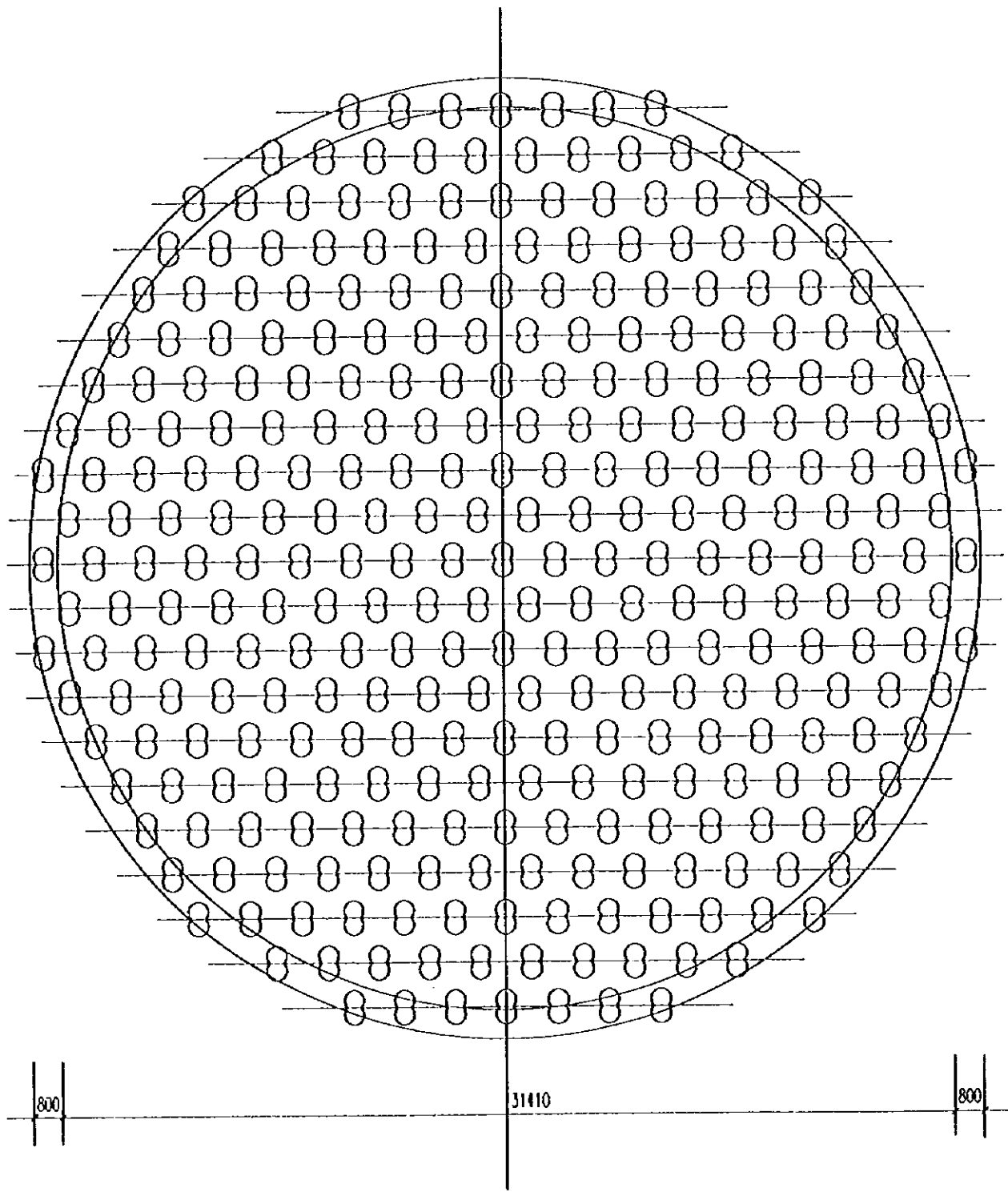
PLANE SECTION OF RING WALL FOUNDATION



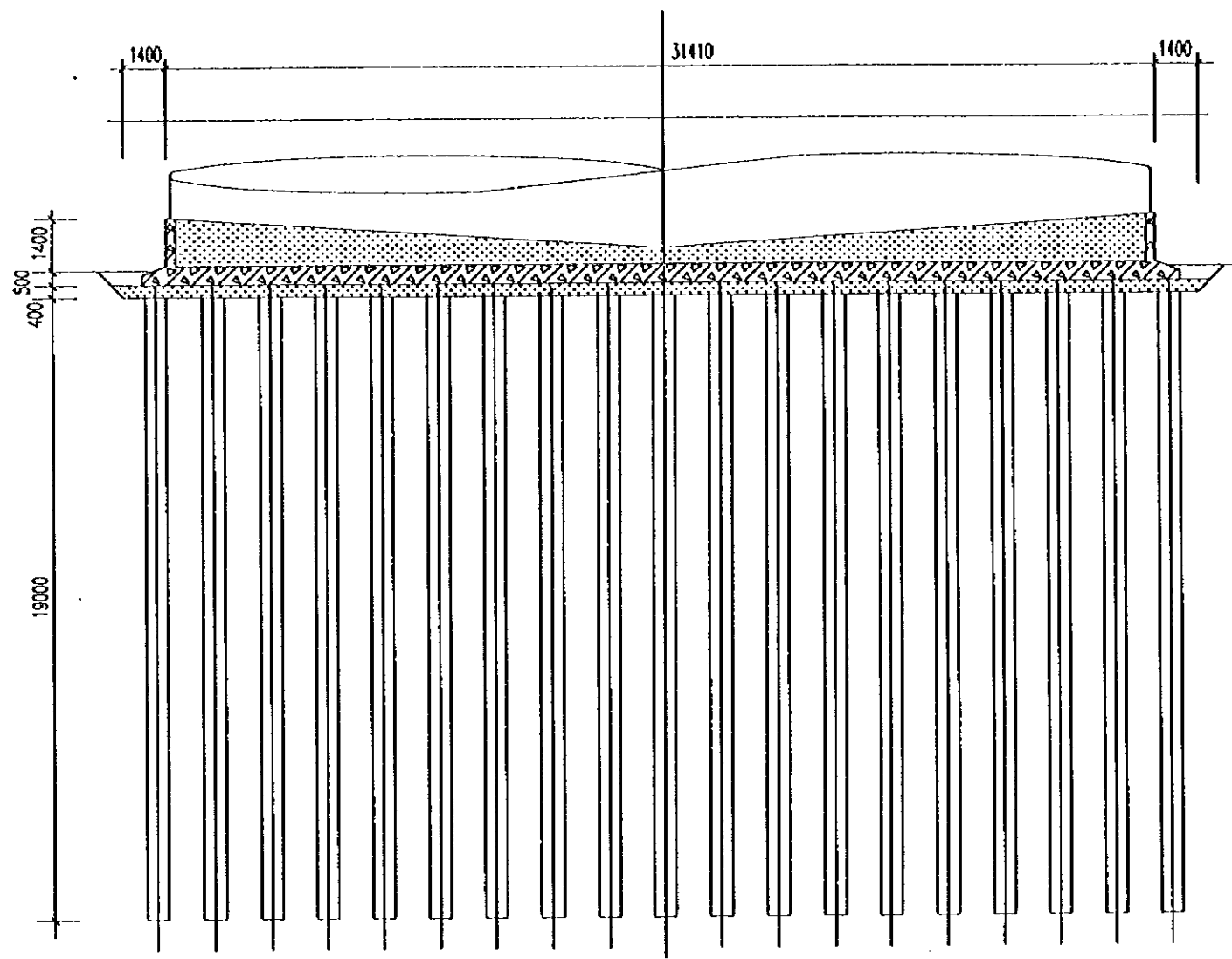
REINFORCEMENT OF RING WALL



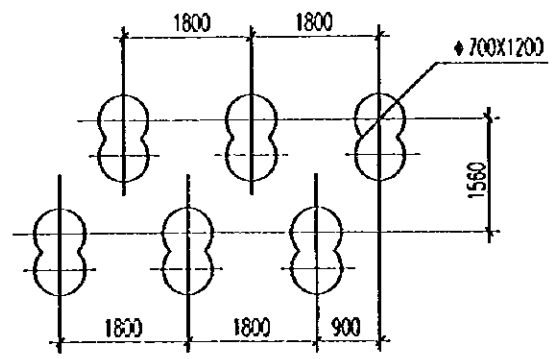
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
10000m ² TANK FOUNDATION (1/2)	
SCALE	DWG-F24(1/2)
JAPAN INTERNATIONAL COOPERATION AGENCY	



PLANE SECTION OF MIXED-IN-PLACE PILES

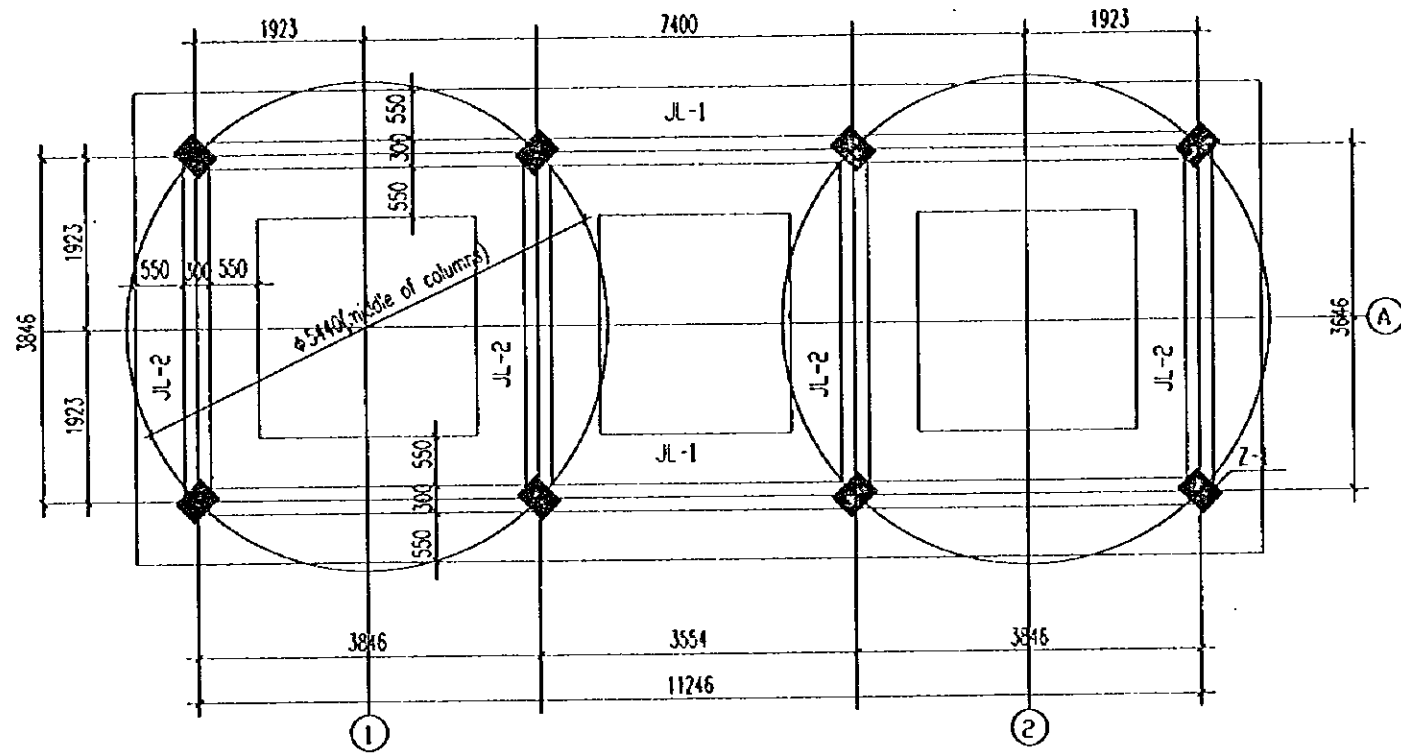


PROFILE

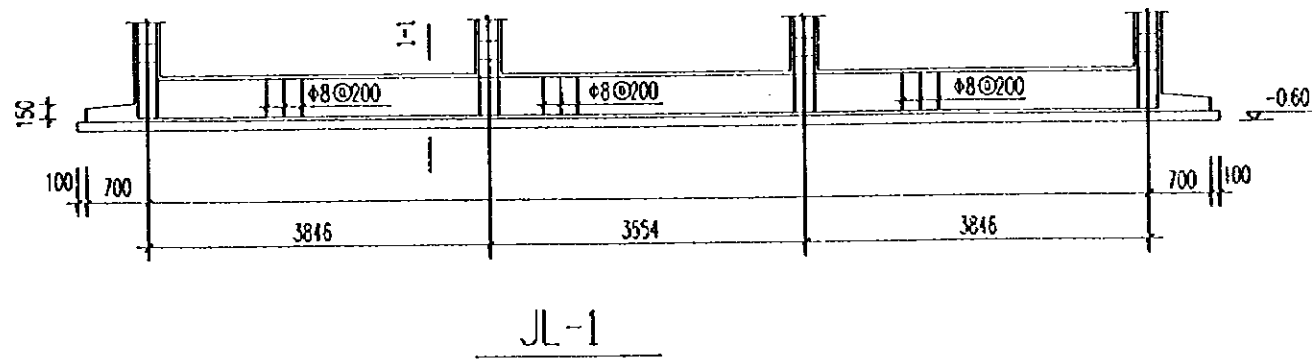


DISTANCE BETWEEN PILES

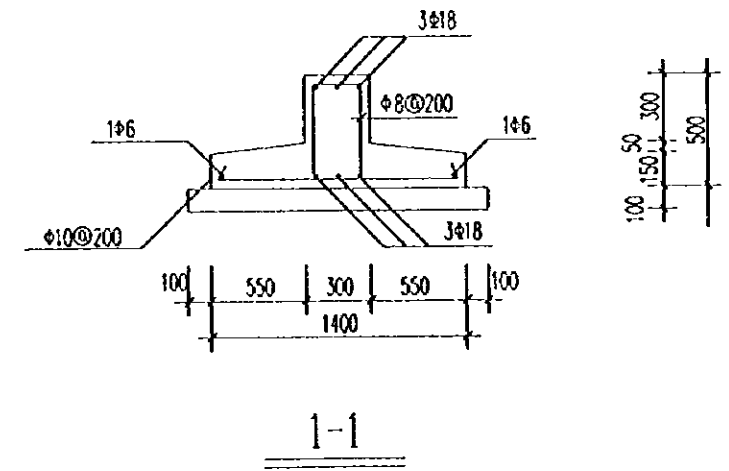
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
10000M ² TANK FOUNDATION (2/2)	
SCALE	1:200
JAPAN INTERNATIONAL COOPERATION AGENCY	



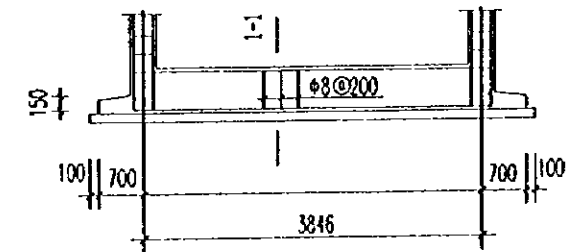
FOOTING BEAM LAY-OUT PLAN



JL-1

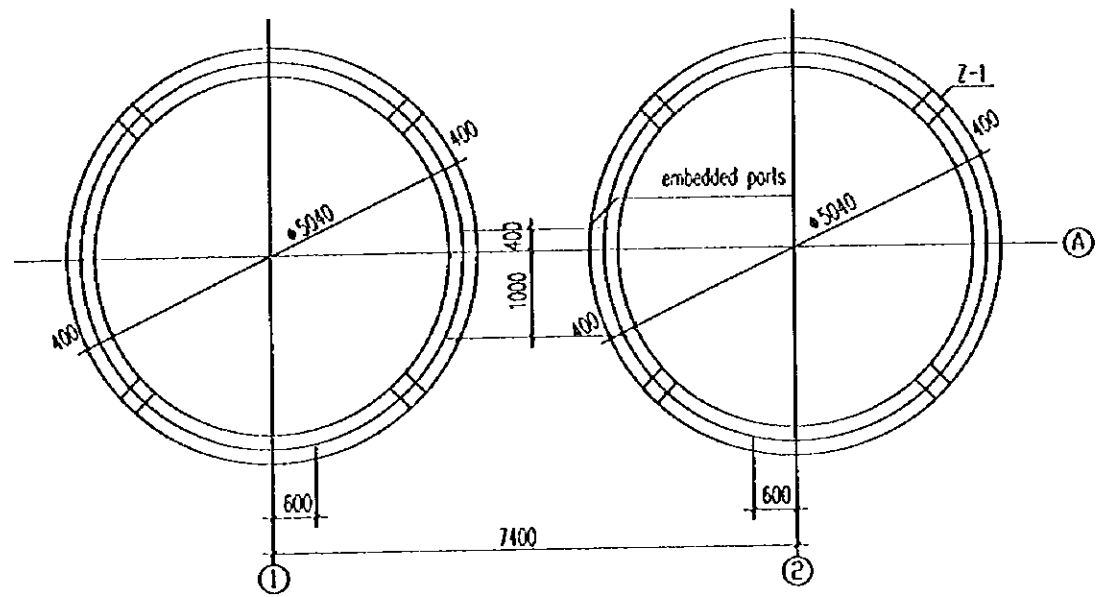


1-1

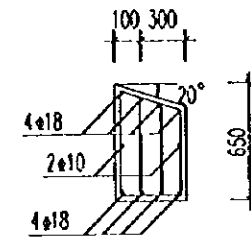
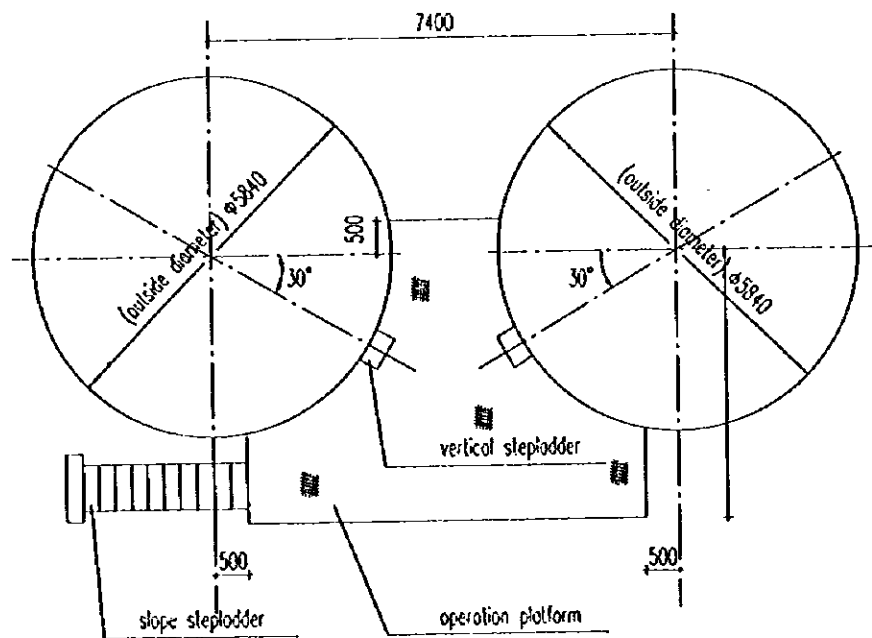


JL-2

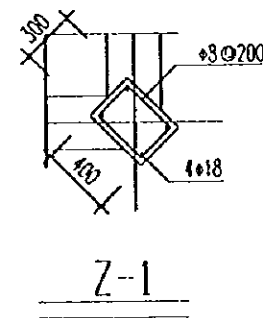
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
100M ² TANK FOUNDATION (1/2)	
SCALE	DWG-T25(1/2)
JAPAN INTERNATIONAL COOPERATION AGENCY	



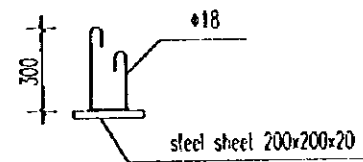
PLANE SECTION OF EMBEDDED PARTS AND PERIPHERY BEAM



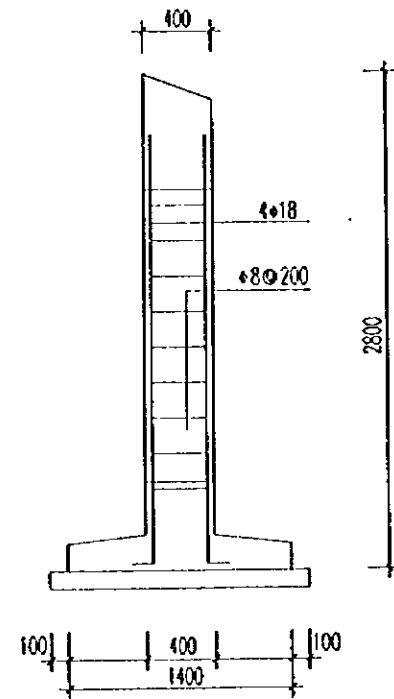
REINFORCEMENT OF PERIPHERY BEAM



Z-1



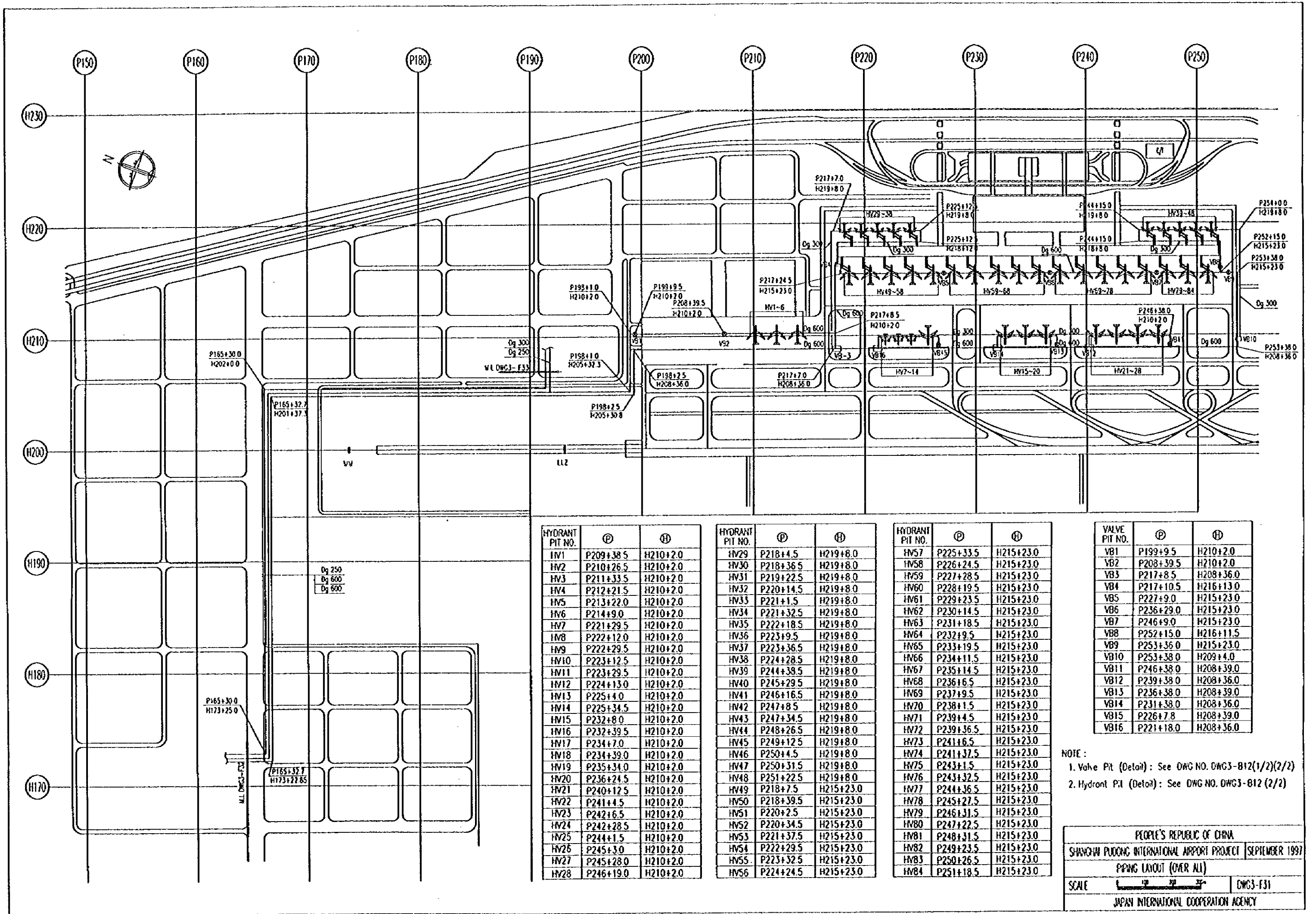
EMBEDDED PARTS



REINFORCEMENT AND DIMENTION OF COLUMNS



PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
100M ³ TANK FOUNDATION (2/2)	
SCALE	DWG-F25K2/2)
JAPAN INTERNATIONAL COOPERATION AGENCY	



HYDRANT PIT NO.	Ⓟ	Ⓜ
HV1	P209+38.5	H210+2.0
HV2	P210+26.5	H210+2.0
HV3	P211+33.5	H210+2.0
HV4	P212+21.5	H210+2.0
HV5	P213+22.0	H210+2.0
HV6	P214+9.0	H210+2.0
HV7	P221+29.5	H210+2.0
HV8	P222+12.0	H210+2.0
HV9	P222+29.5	H210+2.0
HV10	P223+12.5	H210+2.0
HV11	P223+29.5	H210+2.0
HV12	P224+13.0	H210+2.0
HV13	P225+4.0	H210+2.0
HV14	P225+34.5	H210+2.0
HV15	P232+8.0	H210+2.0
HV16	P232+39.5	H210+2.0
HV17	P234+7.0	H210+2.0
HV18	P234+39.0	H210+2.0
HV19	P235+34.0	H210+2.0
HV20	P236+24.5	H210+2.0
HV21	P240+12.5	H210+2.0
HV22	P241+4.5	H210+2.0
HV23	P242+6.5	H210+2.0
HV24	P242+28.5	H210+2.0
HV25	P244+1.5	H210+2.0
HV26	P245+3.0	H210+2.0
HV27	P245+28.0	H210+2.0
HV28	P246+19.0	H210+2.0

HYDRANT PIT NO.	Ⓟ	Ⓜ
HV29	P218+4.5	H219+8.0
HV30	P218+36.5	H219+8.0
HV31	P219+22.5	H219+8.0
HV32	P220+14.5	H219+8.0
HV33	P221+1.5	H219+8.0
HV34	P221+32.5	H219+8.0
HV35	P222+18.5	H219+8.0
HV36	P223+9.5	H219+8.0
HV37	P223+36.5	H219+8.0
HV38	P224+28.5	H219+8.0
HV39	P244+39.5	H219+8.0
HV40	P245+29.5	H219+8.0
HV41	P246+16.5	H219+8.0
HV42	P247+8.5	H219+8.0
HV43	P247+34.5	H219+8.0
HV44	P248+26.5	H219+8.0
HV45	P249+12.5	H219+8.0
HV46	P250+4.5	H219+8.0
HV47	P250+31.5	H219+8.0
HV48	P251+22.5	H219+8.0
HV49	P218+7.5	H215+23.0
HV50	P218+39.5	H215+23.0
HV51	P220+2.5	H215+23.0
HV52	P220+34.5	H215+23.0
HV53	P221+37.5	H215+23.0
HV54	P222+29.5	H215+23.0
HV55	P223+32.5	H215+23.0
HV56	P224+24.5	H215+23.0

HYDRANT PIT NO.	Ⓟ	Ⓜ
HV57	P225+33.5	H215+23.0
HV58	P226+24.5	H215+23.0
HV59	P227+28.5	H215+23.0
HV60	P228+19.5	H215+23.0
HV61	P229+23.5	H215+23.0
HV62	P230+14.5	H215+23.0
HV63	P231+18.5	H215+23.0
HV64	P232+9.5	H215+23.0
HV65	P233+19.5	H215+23.0
HV66	P234+11.5	H215+23.0
HV67	P235+14.5	H215+23.0
HV68	P236+6.5	H215+23.0
HV69	P237+9.5	H215+23.0
HV70	P238+1.5	H215+23.0
HV71	P239+4.5	H215+23.0
HV72	P239+36.5	H215+23.0
HV73	P241+6.5	H215+23.0
HV74	P241+37.5	H215+23.0
HV75	P243+1.5	H215+23.0
HV76	P243+32.5	H215+23.0
HV77	P244+36.5	H215+23.0
HV78	P245+27.5	H215+23.0
HV79	P246+31.5	H215+23.0
HV80	P247+22.5	H215+23.0
HV81	P248+31.5	H215+23.0
HV82	P249+23.5	H215+23.0
HV83	P250+26.5	H215+23.0
HV84	P251+18.5	H215+23.0

VALVE PIT NO.	Ⓟ	Ⓜ
VB1	P199+9.5	H210+2.0
VB2	P208+39.5	H210+2.0
VB3	P217+8.5	H208+36.0
VB4	P217+10.5	H216+13.0
VB5	P227+9.0	H215+23.0
VB6	P236+29.0	H215+23.0
VB7	P246+9.0	H215+23.0
VB8	P252+15.0	H216+11.5
VB9	P253+36.0	H215+23.0
VB10	P253+38.0	H209+4.0
VB11	P246+38.0	H208+39.0
VB12	P239+38.0	H208+36.0
VB13	P236+38.0	H208+39.0
VB14	P231+38.0	H208+36.0
VB15	P226+7.8	H208+39.0
VB16	P221+18.0	H208+36.0

NOTE:
 1. Valve Pit (Detail): See DWG NO. DWG3-B12(1/2)(2/2)
 2. Hydrant Pit (Detail): See DWG NO. DWG3-B12 (2/2)

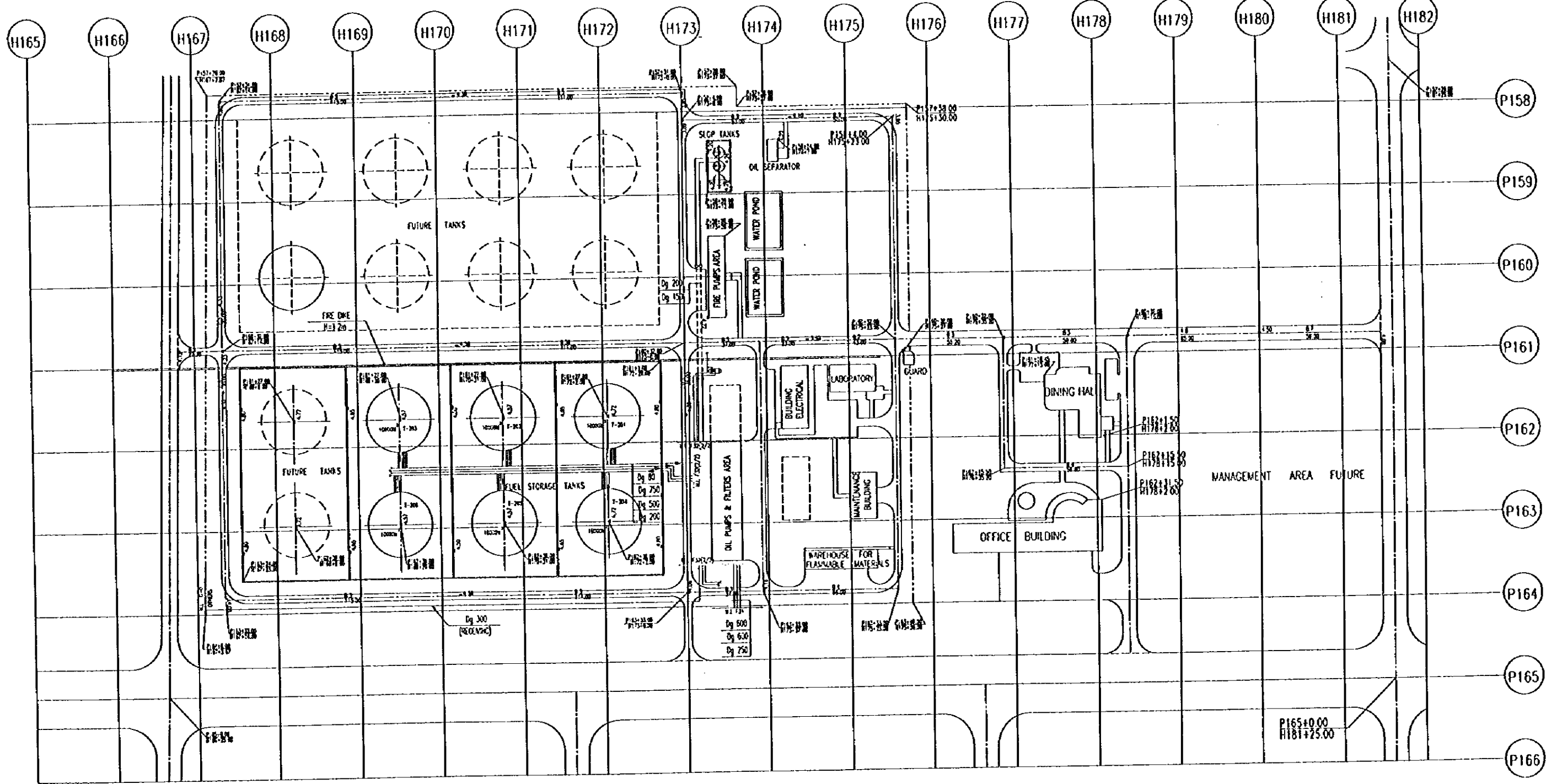
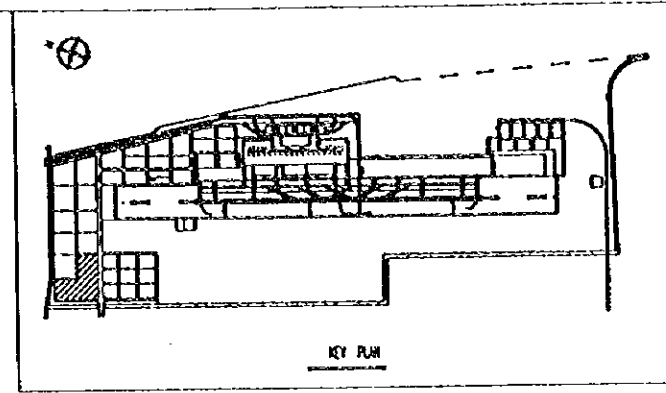
PEOPLE'S REPUBLIC OF CHINA

SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997

PIPING LAYOUT (OVER ALL)

SCALE: DWG3-F31

JAPAN INTERNATIONAL COOPERATION AGENCY



PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
PIPING LAYOUT (FUEL STORAGE DEPOT) (1/2)	
SCALE	DWG-F-32(1/2)
JAPAN INTERNATIONAL COOPERATION AGENCY	