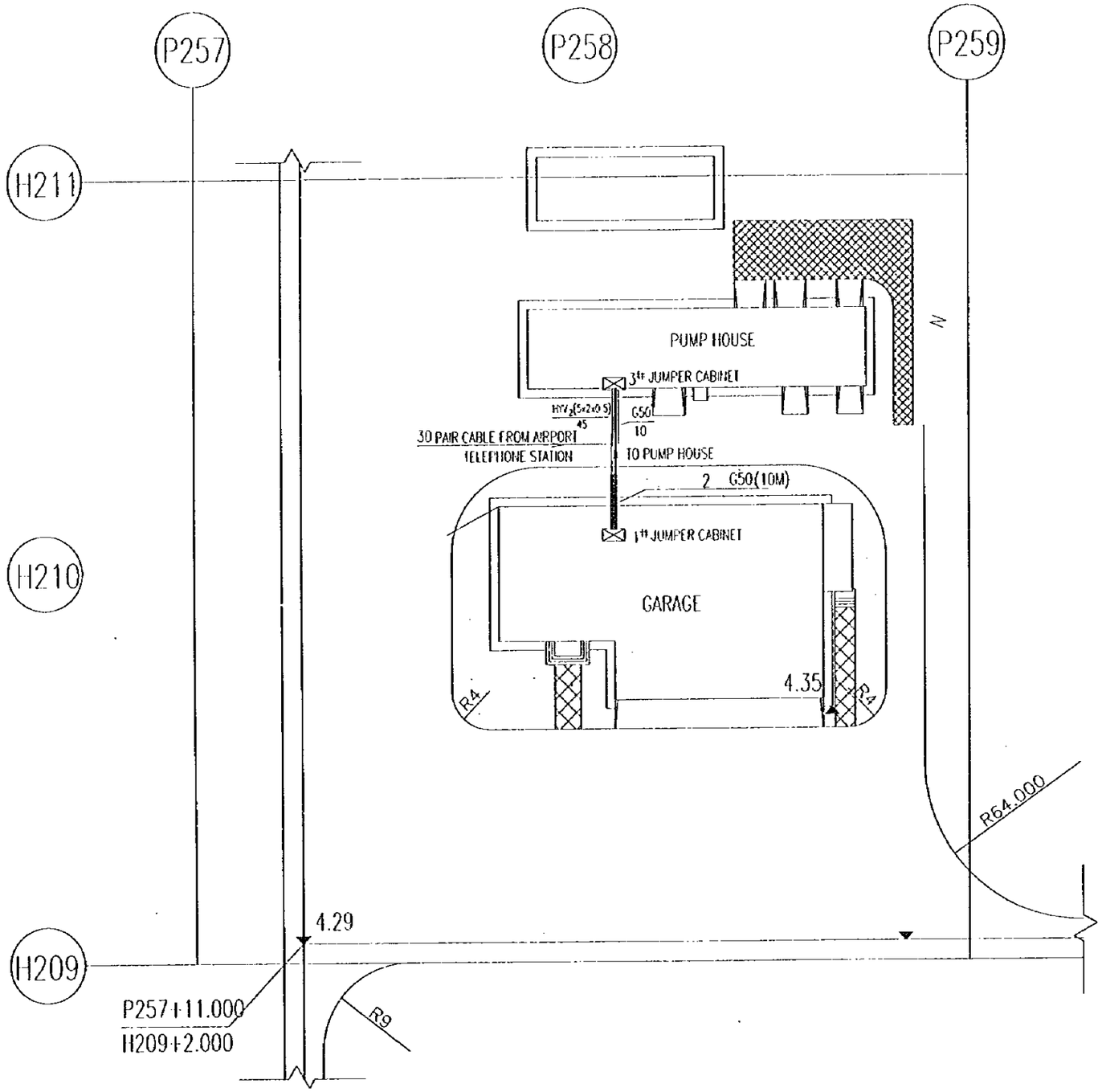
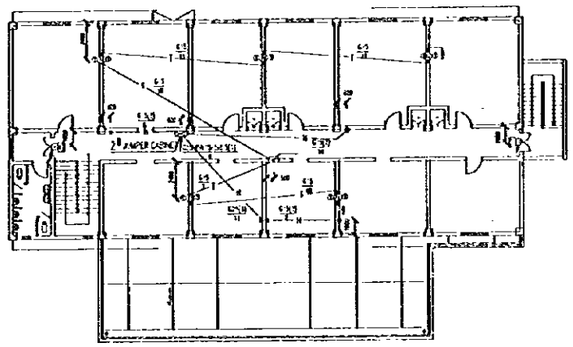
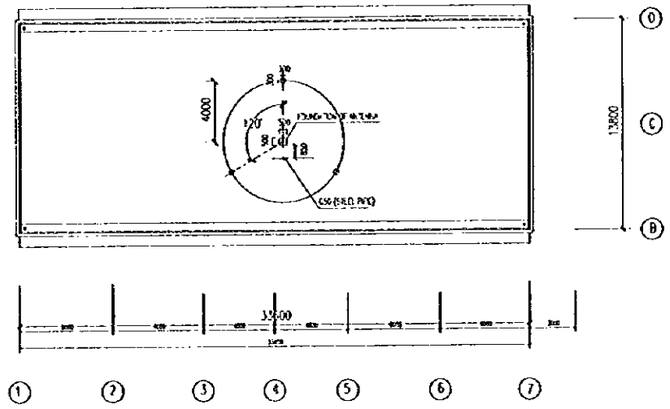


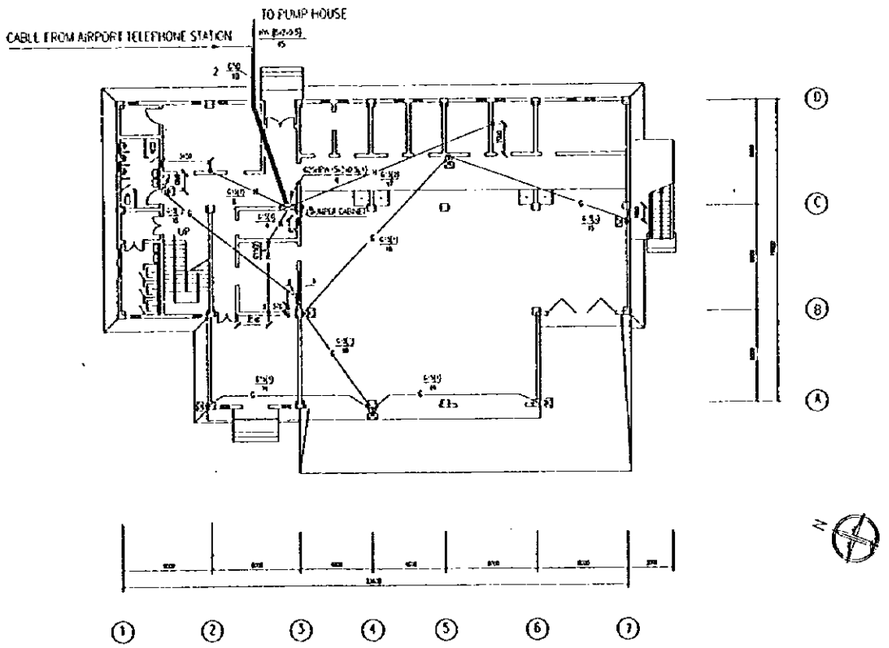
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
CABLE WIRING DIAGRAM OF OUTDOOR BUILDING	
SCALE 1:1	DWG43-EC2
JAPAN INTERNATIONAL COOPERATION AGENCY	



PLANE WIRING DIAGRAM IN THE SECOND FLOOR



PLANE DIAGRAM OF THE FOUNDATION OF TV ANTENNA

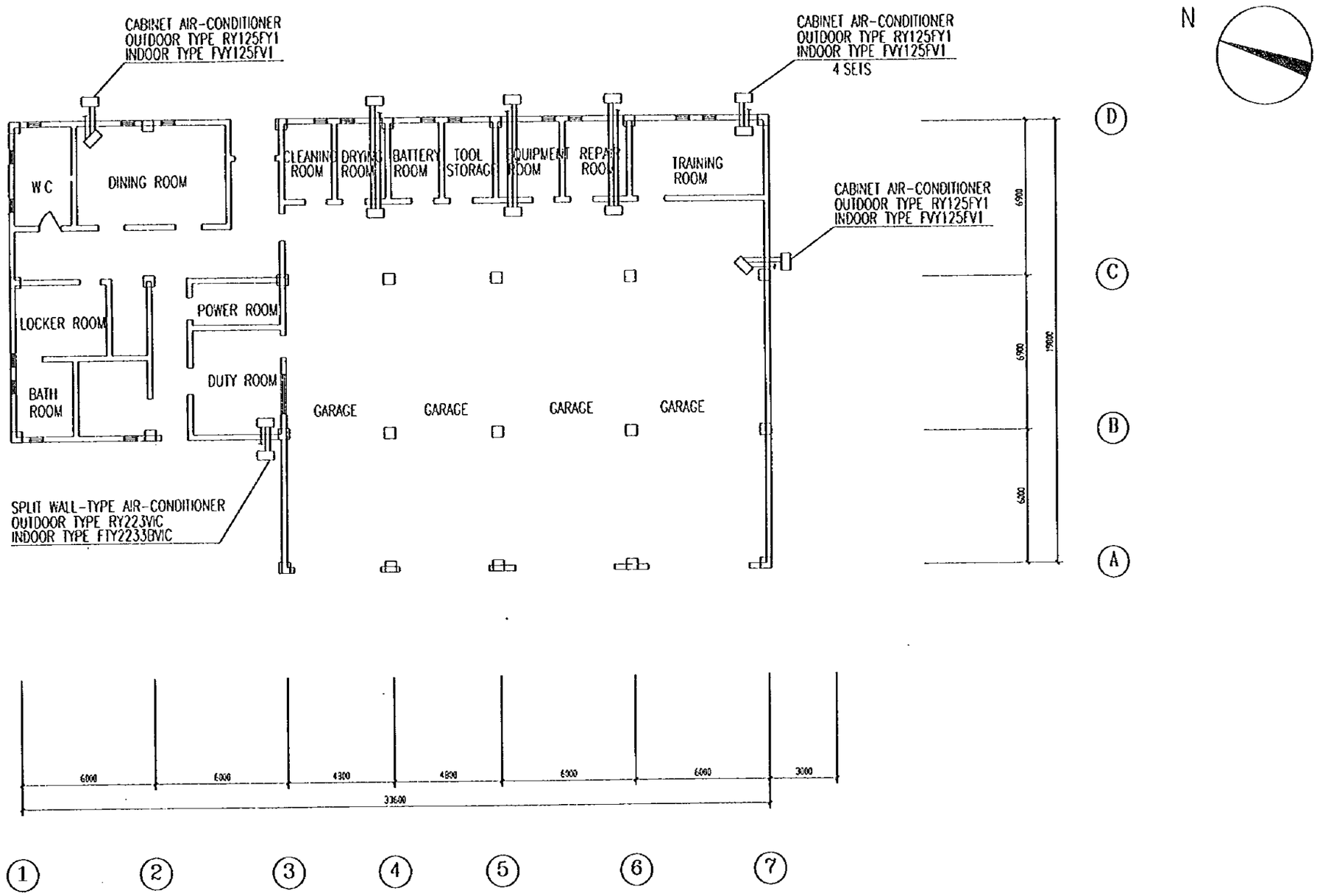


PLANE WIRING DIAGRAM IN THE FIRST FLOOR

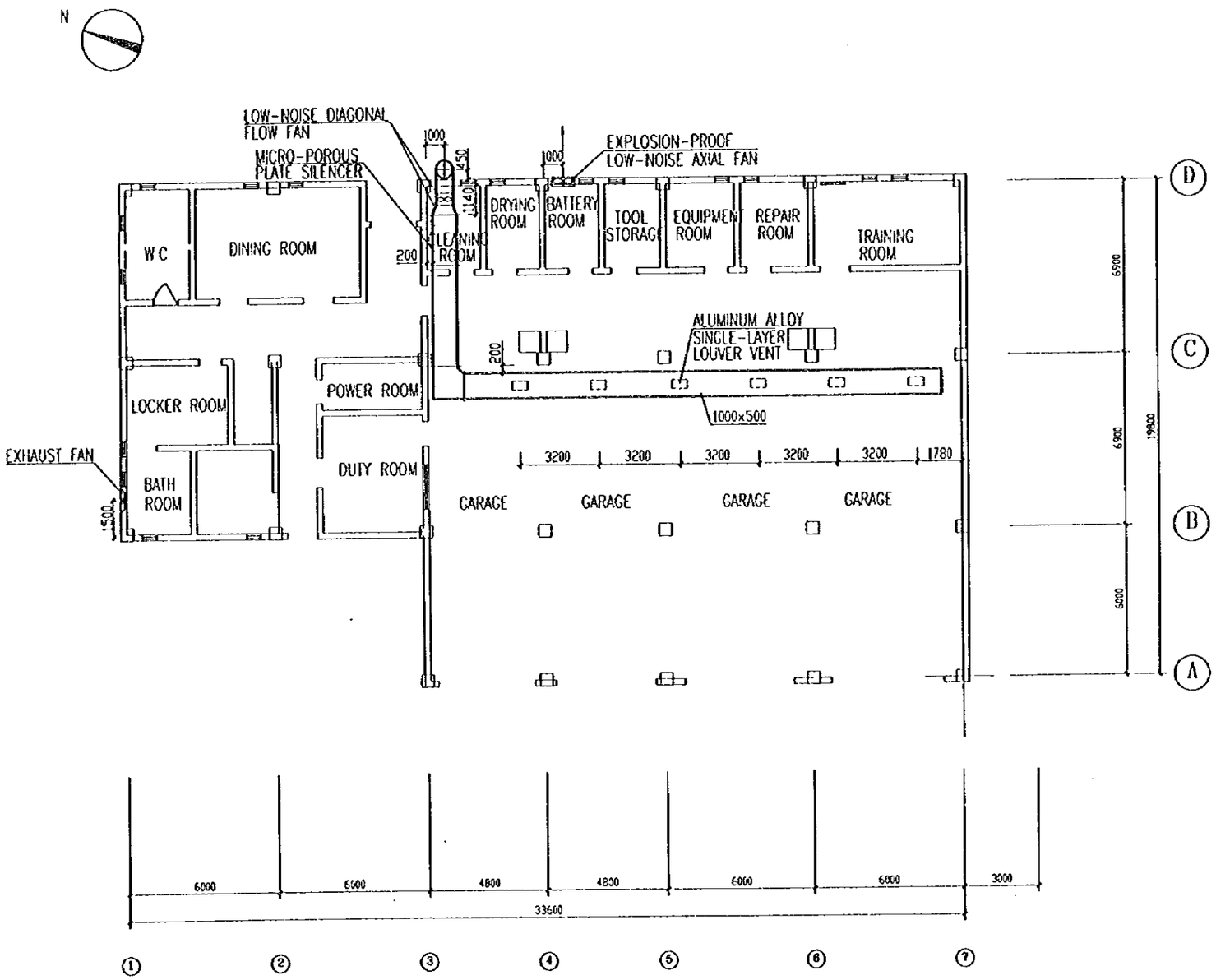
LEGEND:

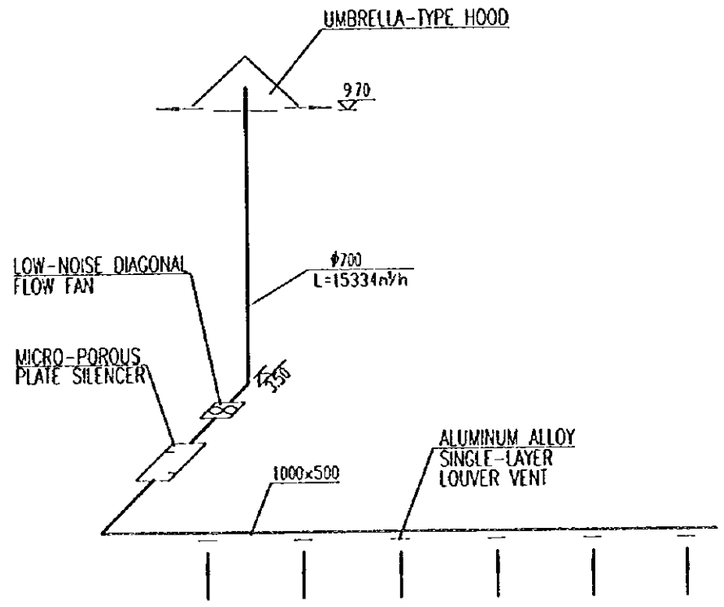
- JUMPER CABINET
- OUTLET CONNECTION UNIT
- TV CABINET
- TWO BRANCH BOX OF TV
- TV SOCKET
- LOUD-SPEAKER
- BROADCAST SOCKET
- --H-- TELEPHONE LINE
- --T-- TV LINE
- --C-- BROADCAST LINE

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
TELEPHONE, BROADCAST, TV PLAN AND TV FOUNDATION PLAN	
SCALE	DWG 43-EC3
JAPAN INTERNATIONAL COOPERATION AGENCY	

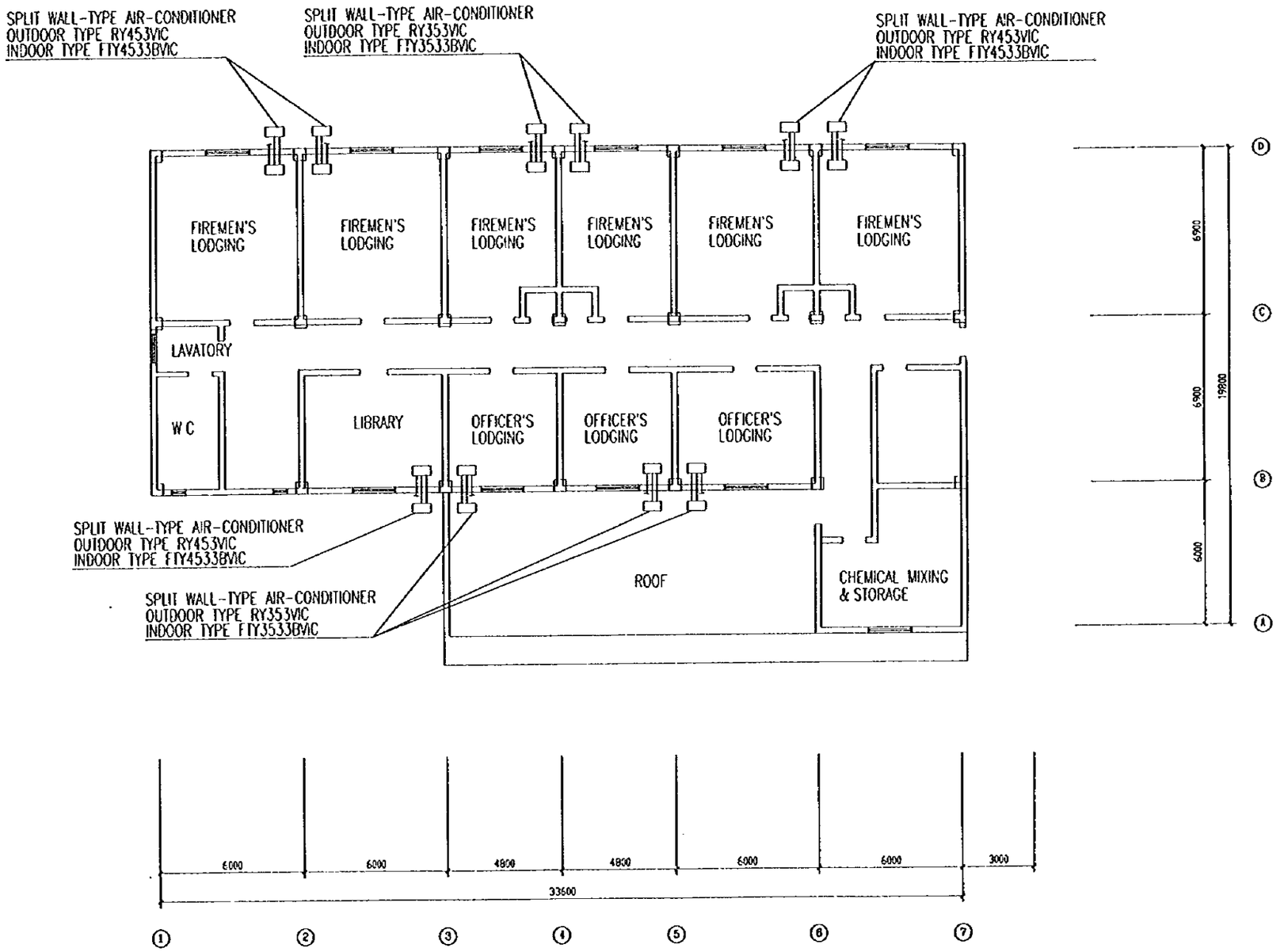


PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
1st FLOOR AC PLAN	
SCALE 1/200	DWG 43-M1
JAPAN INTERNATIONAL COOPERATION AGENCY	

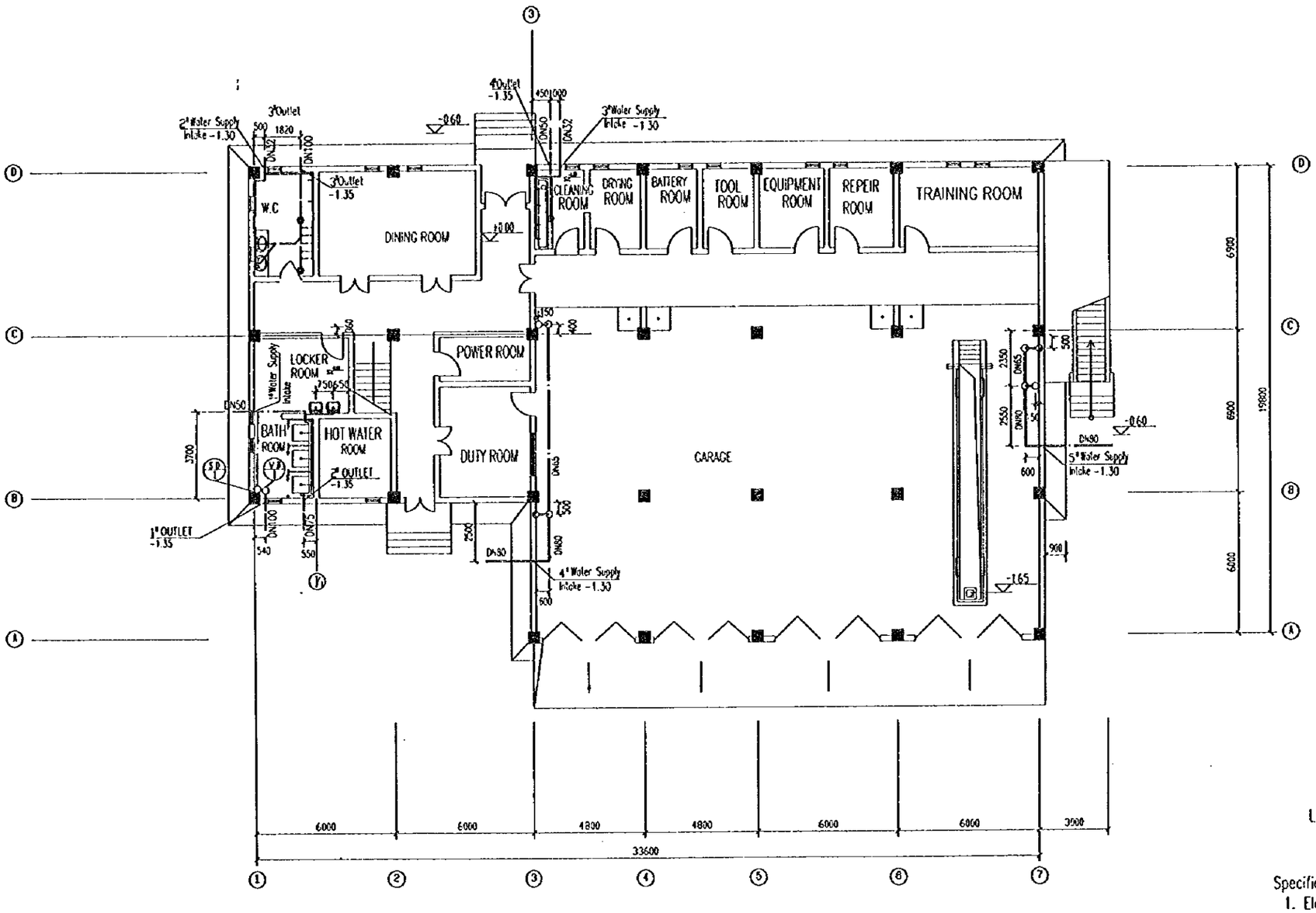


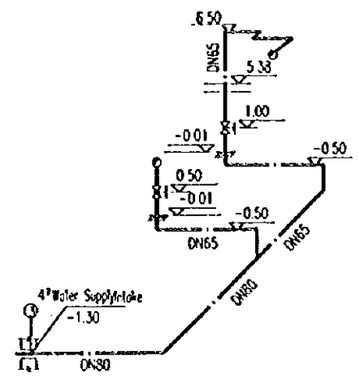


PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
SUB FIRE STATION 1ST FLOOR EXHAUST PLAN	
SCALE 1:25	DWG43-M2
JAPAN INTERNATIONAL COOPERATION AGENCY	

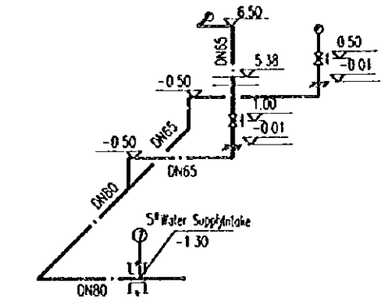


PEOPLE'S REPUBLIC OF CHINA		
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT		SEPTEMBER 1997
2nd FLOOR AC PLAN		
SCALE 0 1 2.5 5m		DWG 43-W3
JAPAN INTERNATIONAL COOPERATION AGENCY		





4"Water Supply Intake System Plan



5"Water Supply Intake System Plan

Legend :

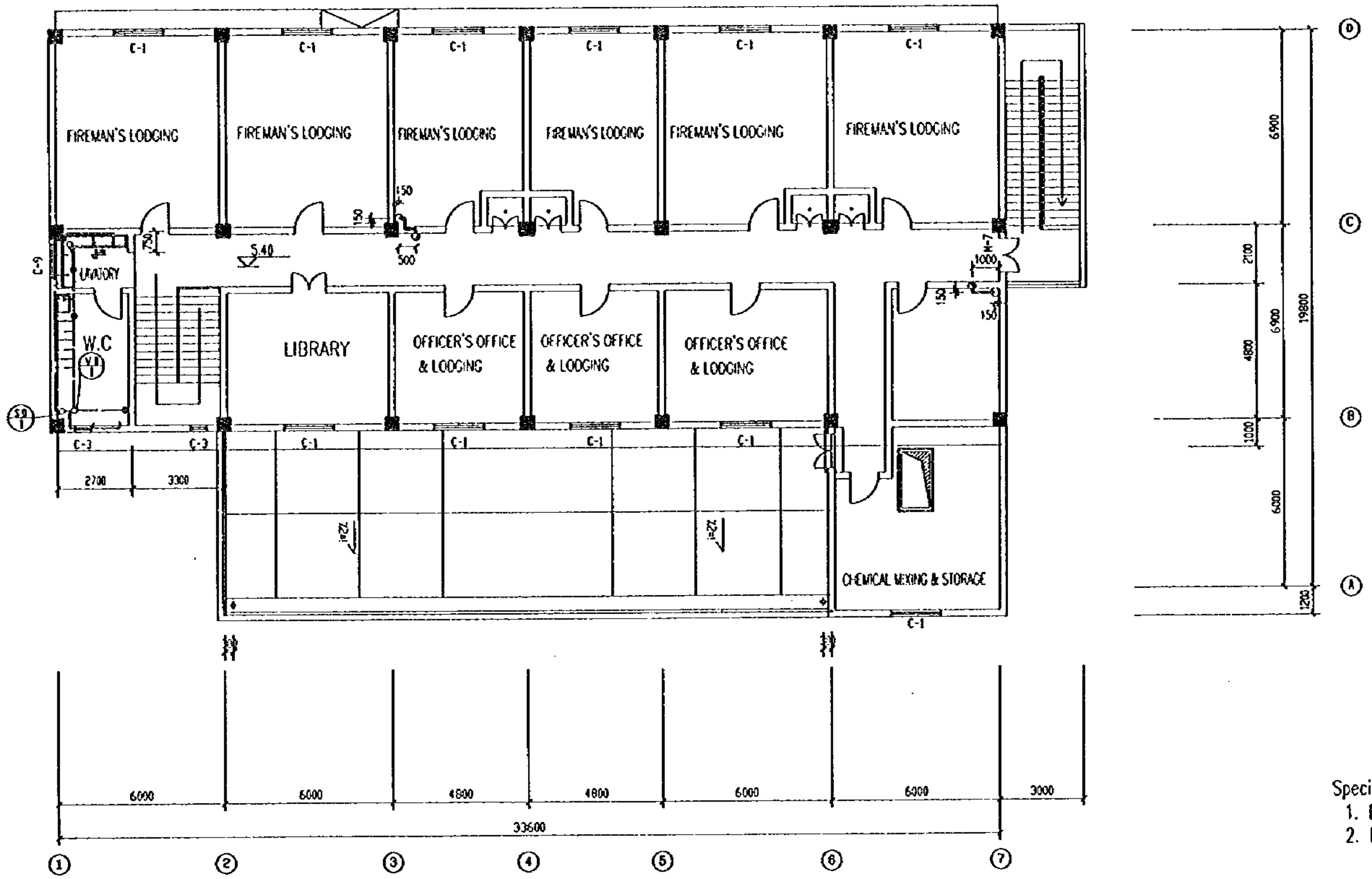
FIRE HYDRANT Floor Slab Floor Butterfly Valve

Specificotion :

1. Elevotions on the drawing shall be in m, and other sizes in mm
2. Elevation on the drawing are all based on ±0.00

1st FLOOR WATER SUPPLY & DRAINAGE PLAN

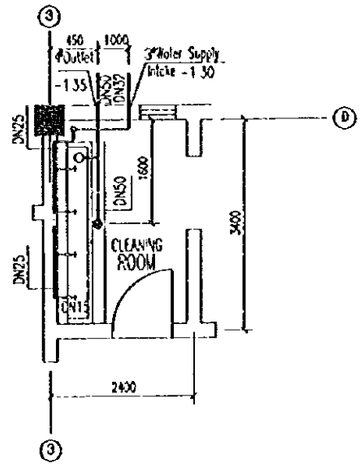
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
1st FLOOR WATER SUPPLY AND DRAINAGE PLAN	
SCALE	DWG 43-WP1
JAPAN INTERNATIONAL COOPERATION AGENCY	



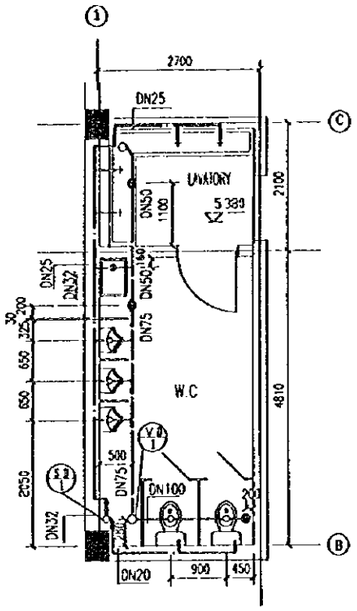
2nd FLOOR WATER SUPPLY & DRAINAGE PLAN

Specification :
1. Elevations on the drawing shall be in m, and other sizes in mm
2. Elevation on the drawing are all based on ±0.00

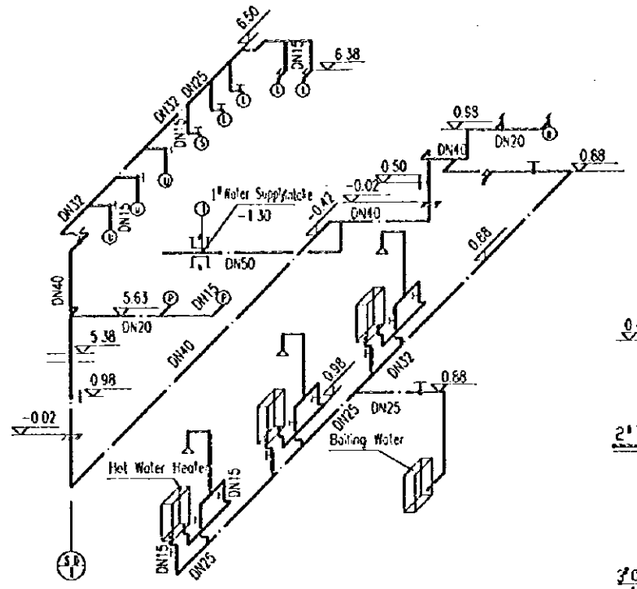
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
2nd FLOOR WATER SUPPLY AND DRAINAGE PLAN	
SCALE	DWG 43-WP2
JAPAN INTERNATIONAL COOPERATION AGENCY	



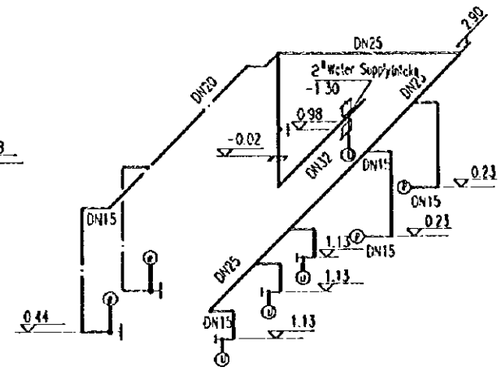
1st FLOOR W.C DETAIL DRAWING



2nd FLOOR W.C DETAIL DRAWING



1"WATER SUPPLY INTAKE SYSTEM PLAN



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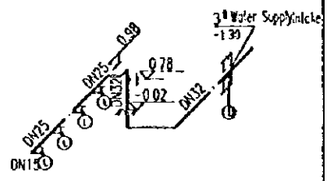
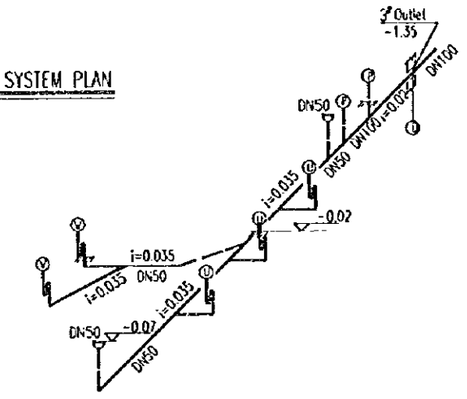
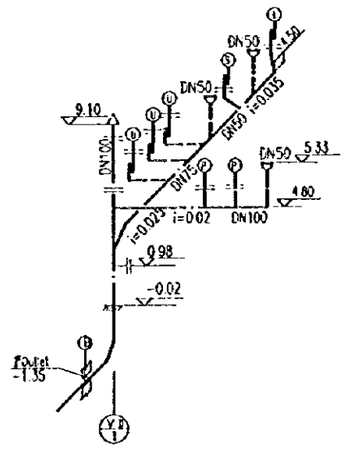


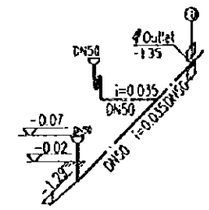
3"WATER SUPPLY INTAKE SYSTEM PLAN



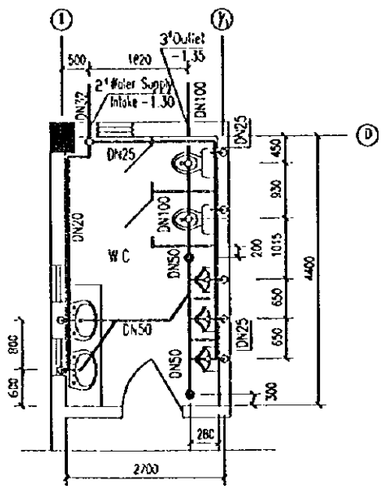
3"OUTLET SYSTEM DRAWING



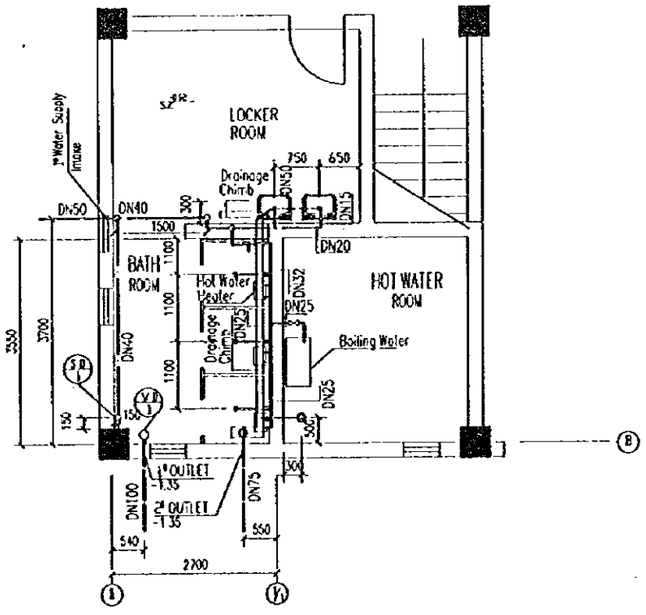
1"OUTLET SYSTEM DRAWING



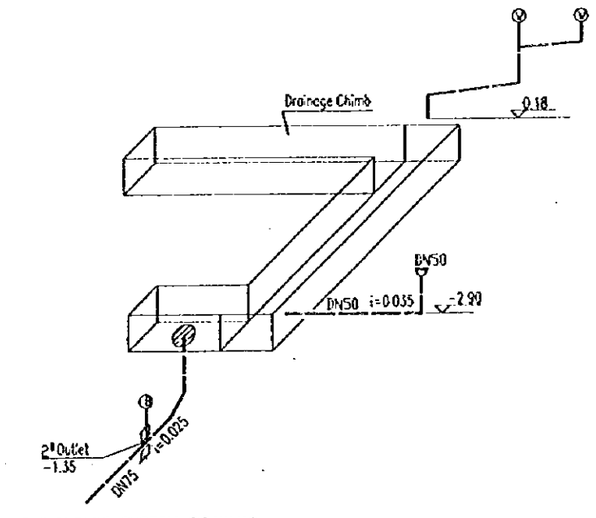
4"OUTLET SYSTEM DRAWING



1st FLOOR W.C DETAIL PLAN



1st FLOOR BATH ROOM & HOT WATER ROOM DETAL PLAN



2"OUTLET SYSTEM DRAWING

Legend :

Stop Valve, Faucet, Floor Slab, Floor, Floor Drain, Inspection Hole, Drainage Valve, Vent cap, Water supply /Drainage Point For W.C. Pan, Water supply /Drainage Point For Washing Basin, Water supply /Drainage Point For Lavatory Basin, Water supply /Drainage Point For Urinal, Water supply /Drainage Point For Washing Sink

Specification :

1. Elevations on the drawing shall be in m, and other sizes in mm
2. Elevation on the drawing are all based on ±0.00

PEOPLE'S REPUBLIC OF CHINA		
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT		SEPTEMBER 1997
PLAN DETAILS AND SYSTEM DIAGRAM		
SCALE	0 0.5 1.25 2.5m	DWG 43-MP3
JAPAN INTERNATIONAL COOPERATION AGENCY		

FINISHING TECHINICAL SPECIFICATIONS

No.	Toping	Construction
Floor 1	Concrete (with water-proof layer)	1. 110 thick C15 concrete 1:1 cement mortar, tamping & polishing. 2. 30 thick 1:3 cement mortar protection layer. 3. One-felt-two-asphalt water-proof layer, rolling up to 150 high all around, posting coarse sand; 4. 150 thick pebble, grouting M2.5 mixed mortar; 5. soil tamping.
Apron 1	Concrete	1. 50 thick C15 concrete 1:1 cement mortar, tamping & polish; 2. 150 thick pebble, grouting M2.5 mixed mortar; 3.Soiling tamping, pitch to outside 4%.
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.
Skirt 1	Cement h=120	1. 8 thick 1:2.5 cement mortar topping, tamping & polish; 2. 12 thick 1:3 cement mortar priming, deburring or scratch.
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%.)
Ramp 1	Concrete	1. 20 thick 1:2 cement mortar mopping, 15 wide emery antislip 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. Soiling tamping (levelling as per plan & section dimension).
Roof 1	Small Stone Protection Layer (without person)	1. Pave one coat of binded peastone of 3~6 in partical size; 2. Ternary ethlene-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 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); 5. 20 thick 1:3 cement mortar levelling course; 6. R.C. slab.

No.	Toping	Construction
Exterior Wall 1	Facing Brick	1. 1:1 cemnet mortar (fine sand) pointing; 2. Paste 10 thick facing brick (as posting as brushing one coat of Yj-302 type concrete interface treament agent to increase binding force); 3. 12 thick 1:0.2:2 cement lime putty morter 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 & scratching; 6. Brush one coat of Yj-302 type concrete interface treatment agent (as brushing as plasting).

BUILING CONSTRUCTION TABLE

Name	Floor	Interior Wall	Skirt	Ceiling	Roof
	Topping/ Construction	Topping/ Construction	Topping/ Construction	Topping/ Construction	
All of Room	Concrete/ Floor 1	Coating/ Interior Wall	Concrete/ Skirt 1	Coating/ Ceiling 1	Roof 1

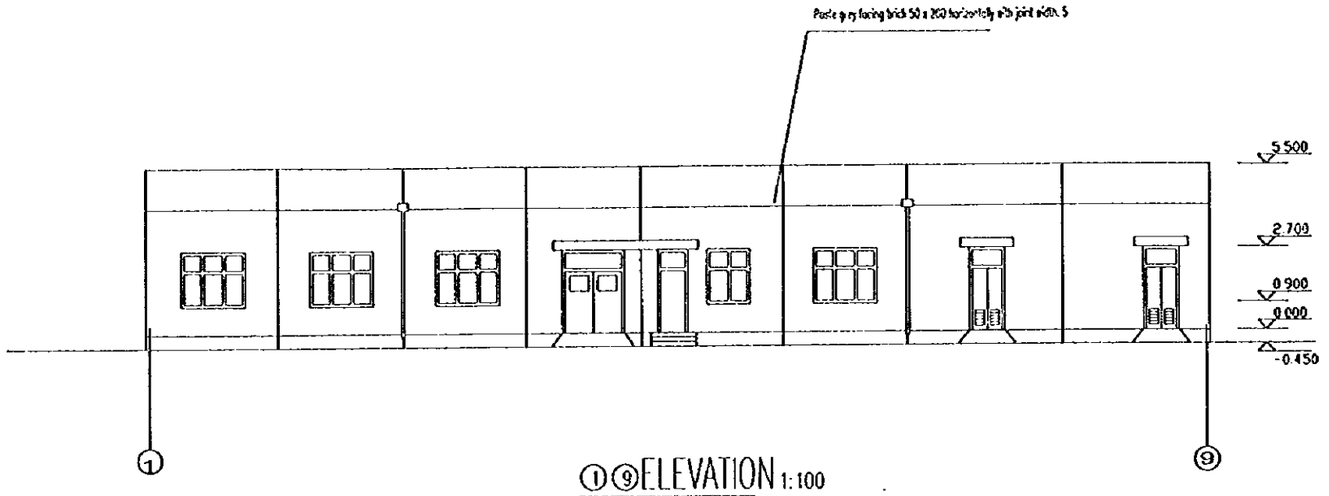
DOOR & WINDOW TABLE

Name	Type	Opening Size	Standard Drawing	Number	Remark
C1	Aluminum alloy sliding window	2100x1800	91J604-TC2118	9	white aluminium alloy
C2	Aluminum alloy sliding window	1500x1800	91J604-TC1518	2	white aluminium alloy
C3	Aluminum alloy sliding window	1500x900	91J604-TC1509	2	white aluminium alloy
C4	Louver window	2100x900	J652 C2-2109	2	
M1	Steel wooden door	2100x2700	J652 M3-2127	1	
M2	Aluminum alloy door	900x2700	JH(A)M13-0927	1	
M3	Steel wooden door	1500x2700	J652 M210-1527	3	
M4	Steel wooden door	2100x2700	J652 M210-2127	2	
M5	Wooden door	1500x2100	JH(A)M43-1521	2	
M6	Wooden door	900x2100	JH(A)M43-0921	2	

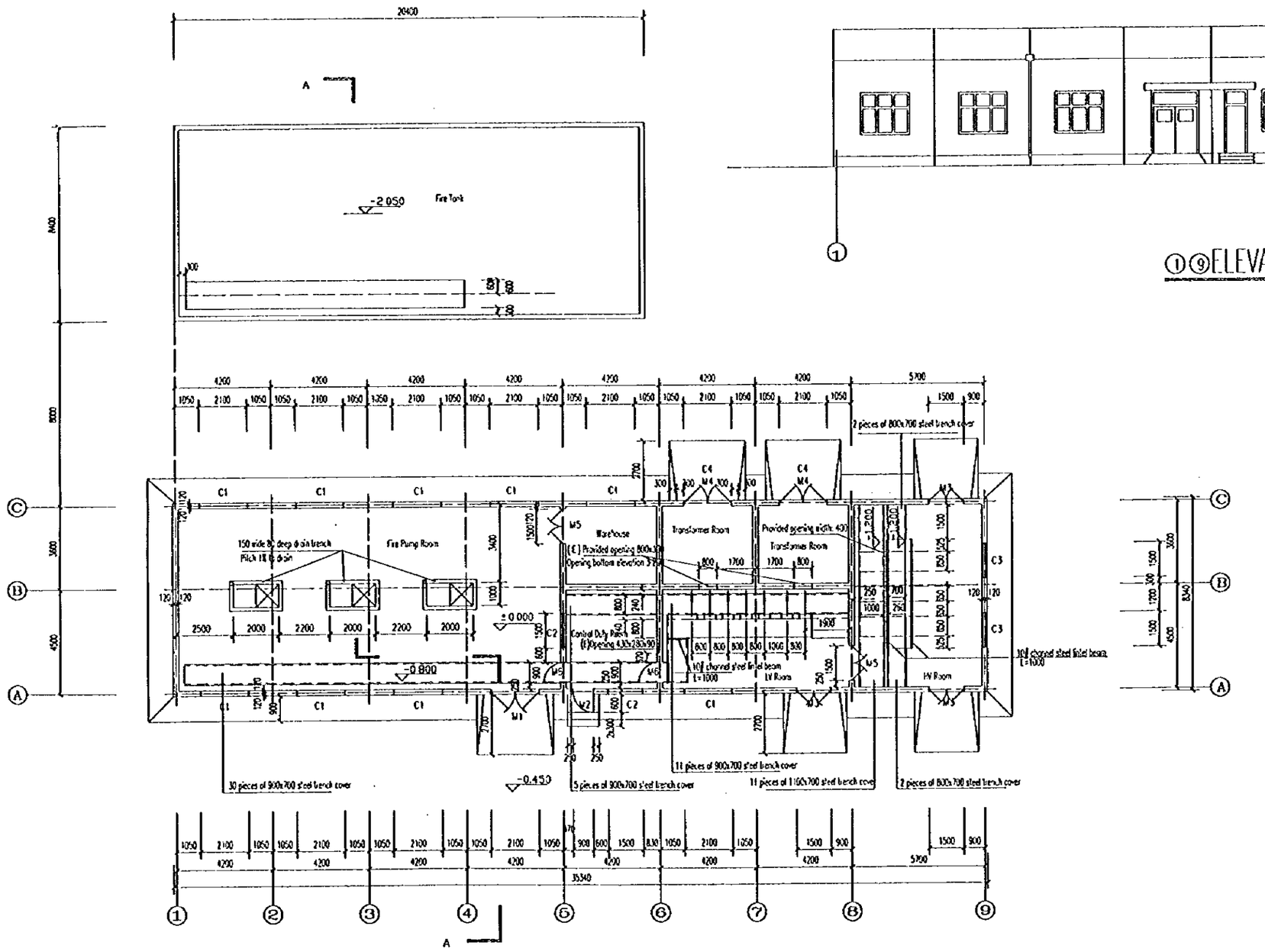
DESIGN INTRODUCTION

1. This project is Fire & Rescue Works of Shanghai Pudong International Airport: Fire Pump Room & Fire Tank, the general planar 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: 35.34x8.34=294.74m2
4. Wall: 1) Except otherwise noted, all walls are 240 thick brick wall, using brick of M7.5 and U7.5 mortar;
   2) All walls shall be provided with 20 thick 1:2 cement mortar damp-proof layer at the position of - 0.060, mixing water-proof agent of 3%~5%;
   3) 1:2 cement mortar angle bead shall be done for indoor wall convex corner, with height same as opening, width of two sides: 150;

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
FINISHING TECHNICAL SPECIFICATIONS, BUILDING CONSTRUCTION TABLE AND DOOR & WINDOW TABLE	
SCALE	DWG11-A1
JAPAN INTERNATIONAL COOPERATION AGENCY	

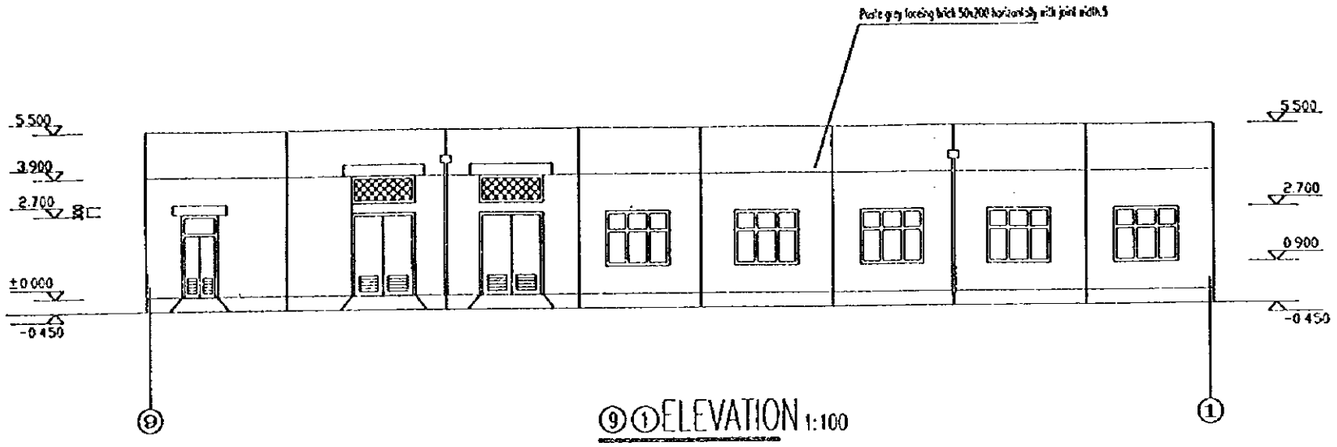


①⑨ELEVATION 1:100

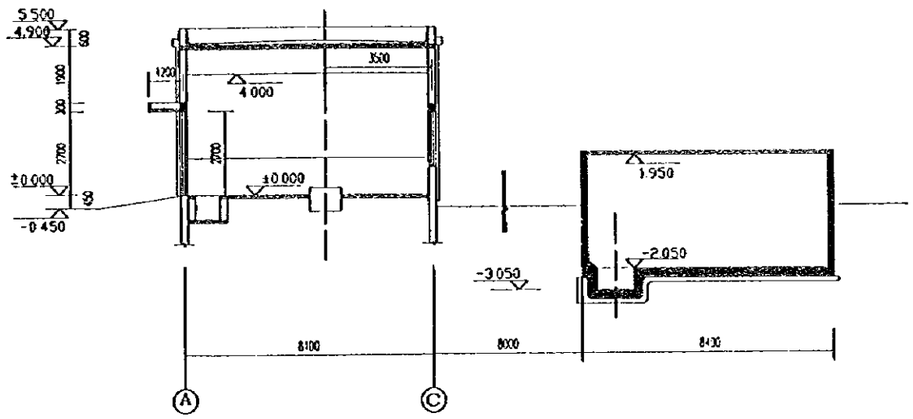


PLAN 1:100

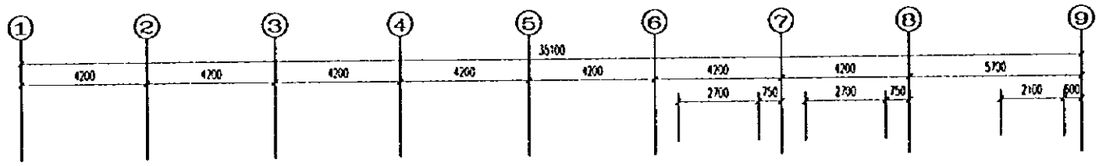
PEOPLE'S REPUBLIC OF CHINA		
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT		SEPTEMBER 1997
PLAN AND 1~9 ELEVATION		
SCALE		DWG NO. A2
JAPAN INTERNATIONAL COOPERATION AGENCY		

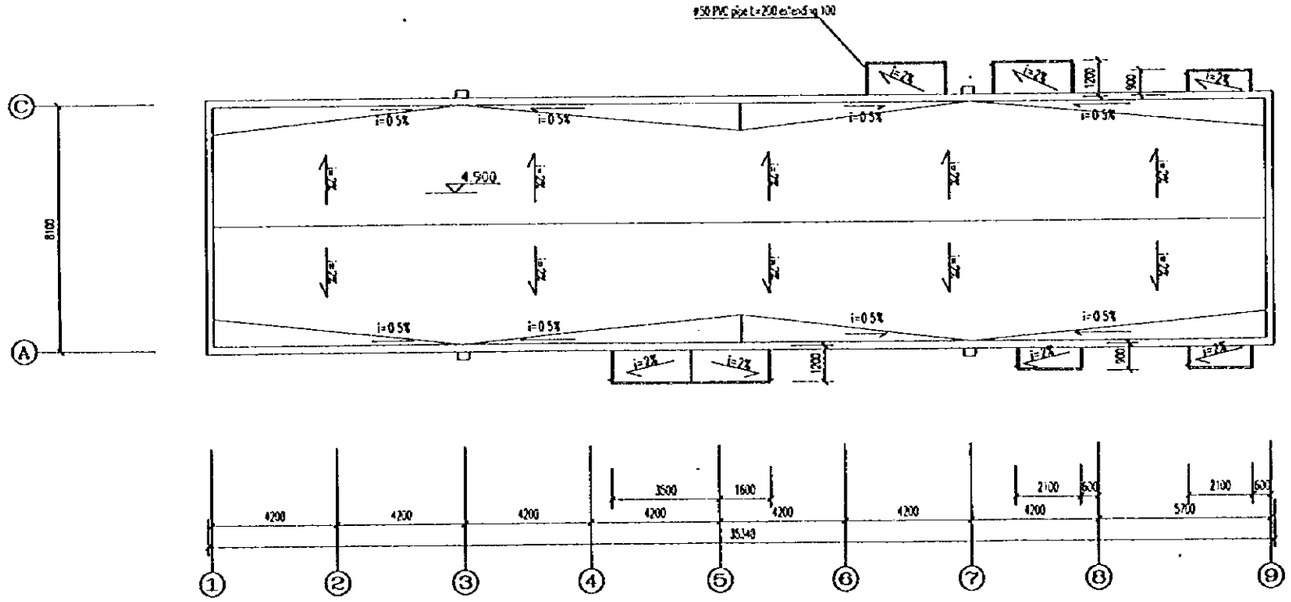


⑨①ELEVATION 1:100

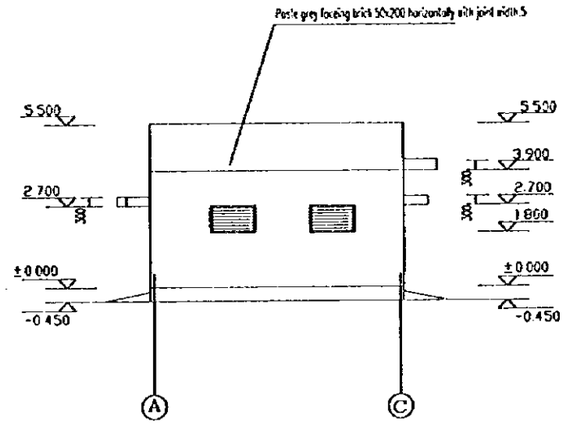


A-A SECTION 1:100



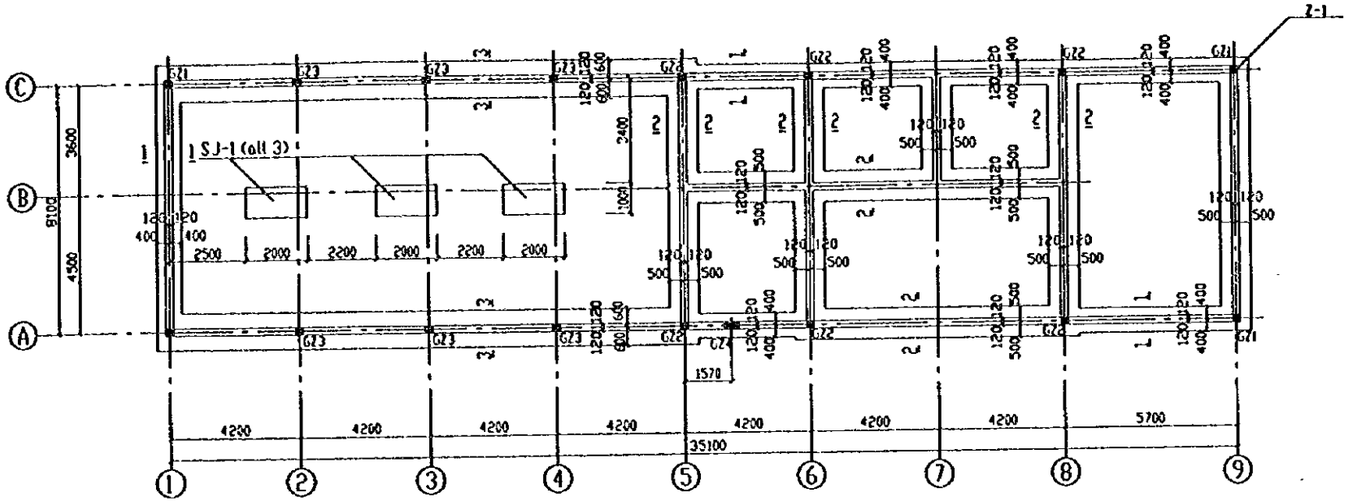


ROOF PLAN 1:100

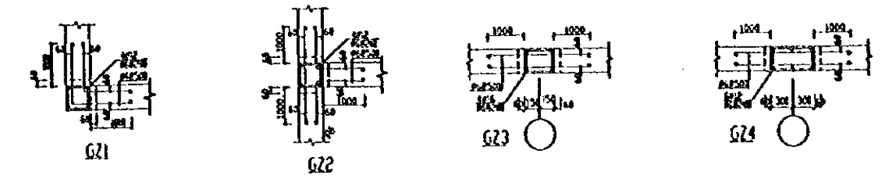


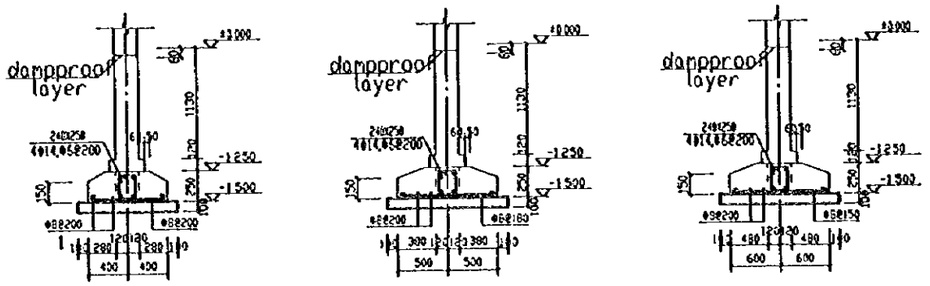
ⒶⒸELEVATION 1:100

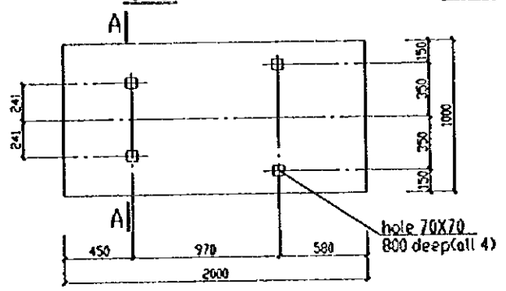
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
ROOF PLAN, 1-9 ELEVATION, A-C ELEVATION AND SECTION	
SCALE 1 2 3	DWG 44-A3
JAPAN INTERNATIONAL COOPERATION AGENCY	



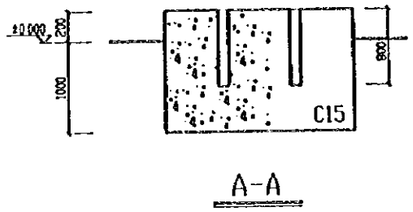
FOUNDATION PLAN LAYERT



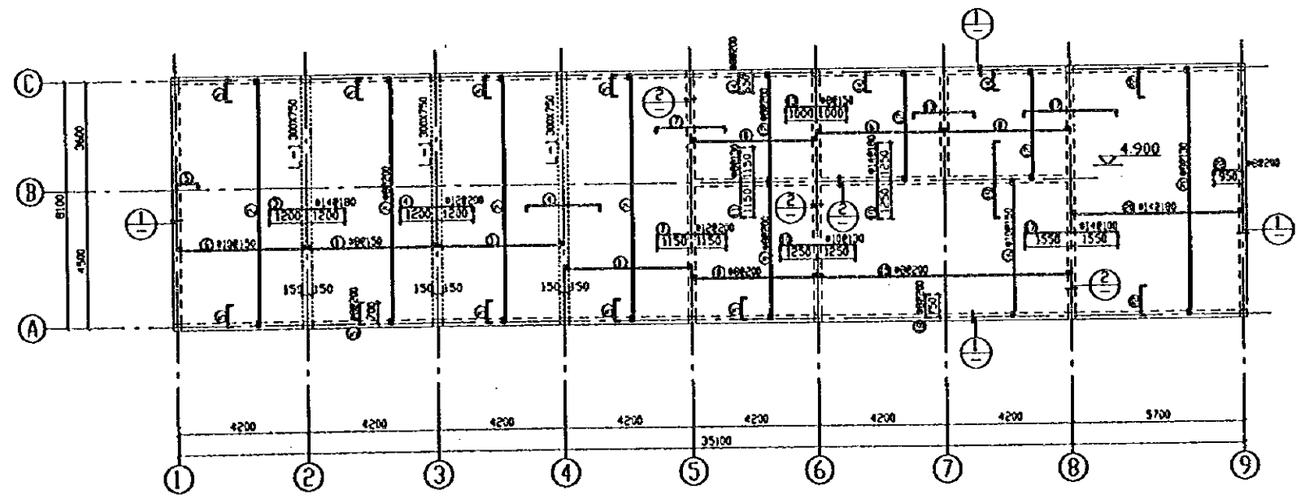




SJ-1



A-A



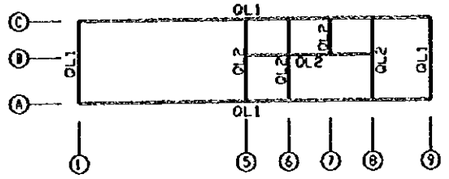
ROOF REINFORCEMENT PLAN

h=120mm

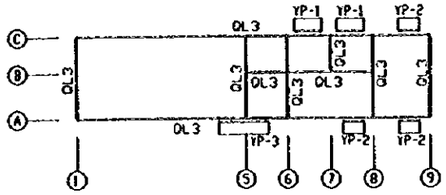
Note:

1. For this project, ±0.000 equals to absolute elevation 4.850.
2. The seismic intensity of this project is 7,base load-bearing capacity standard value=80kpa.
   2-1 layer brown yellow salty clay will be the bearing course and check the foundation subsoil after excavation.
3. Material:
   others C25 bedcourse C10 plain concrete.
   Reinforcing steel:----refers to Grade II,----refers to Grade I.
   partition exterior partition 240 thick perforated clay bricks
   interior partition 200 thick aeroporous bricks
4. Concrete protection layer thickness 35mm for colums and beams under +0.000.
   25mm for colums and beams above +0.000,15mm for slab.
5. construction of dung-proof course:
   12 cement mortar plus 5% waterproofing powder,elevation -0.060
6. See 06J30 for aseismic construction.
7. Foundation construction should coordinate with drawings of water,electric and telecommunication,and pay attenti
8. upper and lower parts of reinbar in upright of door frame shall go 50d each into
   frame beam and foundation bea

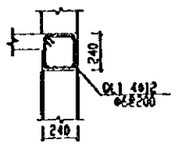
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
FOUNDATION PLAN, ROOF REINFORCEMENT PLAN	
SCALE 1:2 1:5 1:10	DWG 44-S1
JAPAN INTERNATIONAL COOPERATION AGENCY	



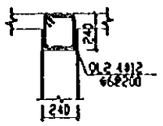
Roof Ring beam Layout



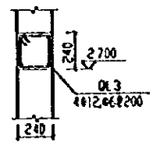
Bottom 2.70 Ring beam Layout



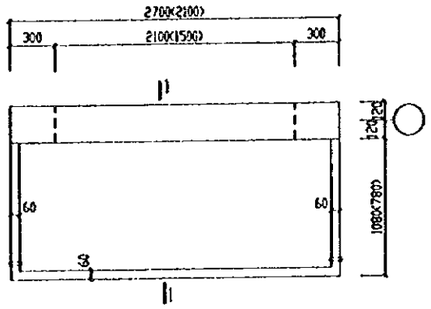
①QL1



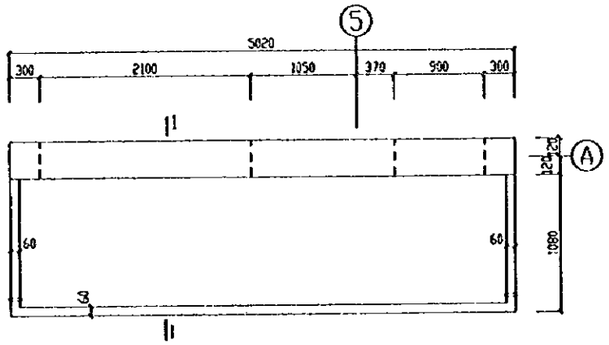
②QL2



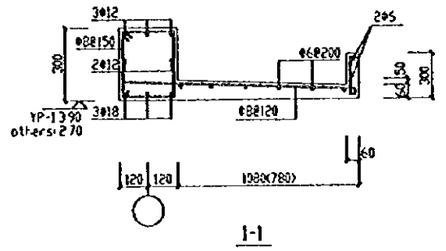
QL3



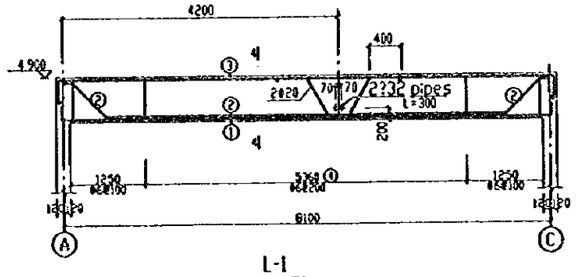
YP-1(YP-2)



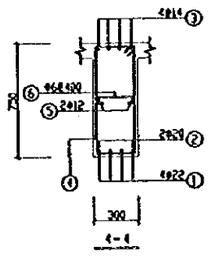
YP-3



1-1



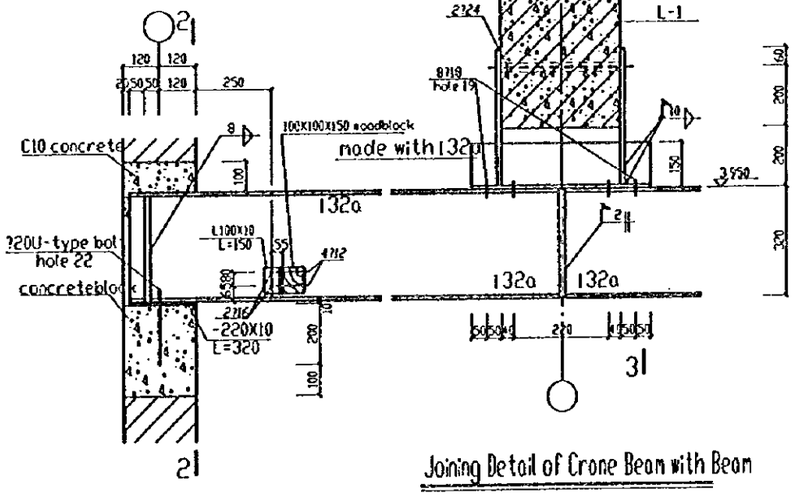
L-1



4-4

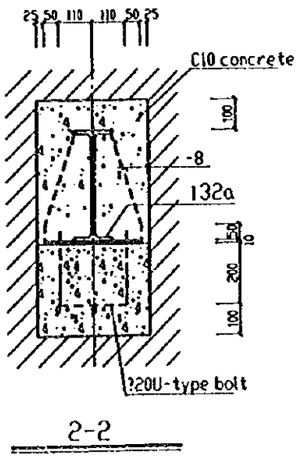
Beam Reinforcing Steel Table

No.	Sketch	Φ/Grade	Length	Number	Weight
①	8200	Φ22	8640	4	103
②	6548 270	Φ20	8750	2	43
③	8280	Φ14	9060	4	50
④	700	Φ6	2140	51	24
⑤	8220	Φ12	8228	2	15
⑥	250	Φ6	326	20	1

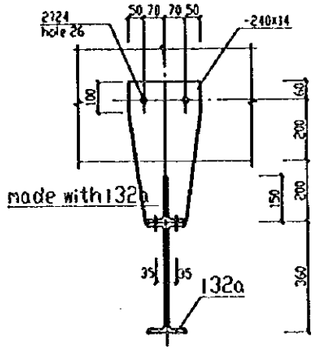


Joining Detail of Crane Beam with Wall

Joining Detail of Crane Beam with Beam



2-2



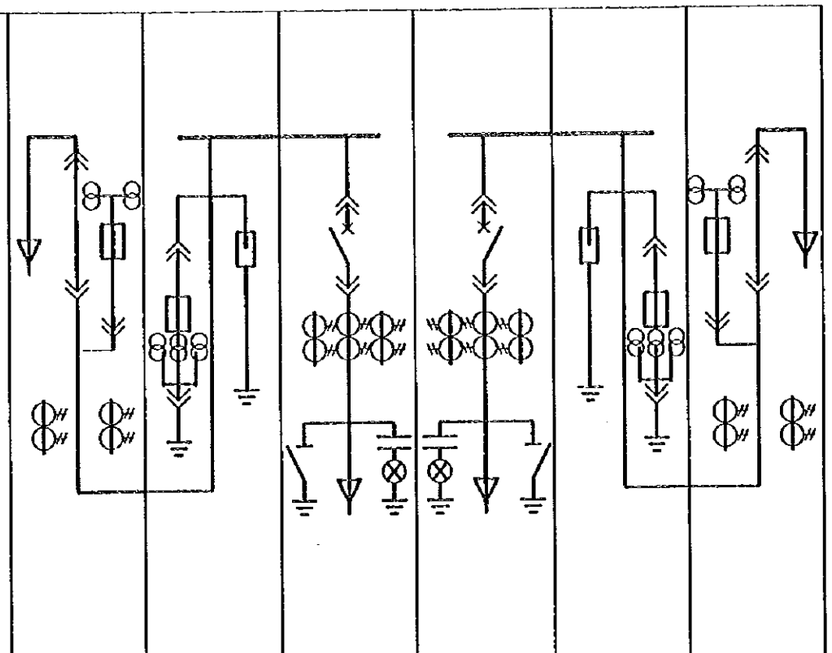
3-3

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
RING BEAM LAYOUT & DETAILS, JOINING DETAIL OF CRANE BEAM WITH WALL & BEAM	
NO SCALE	DWG 44-52
JAPAN INTERNATIONAL COOPERATION AGENCY	

MAIN WIRING PLAN

RATED VOLTAGE

~10KV



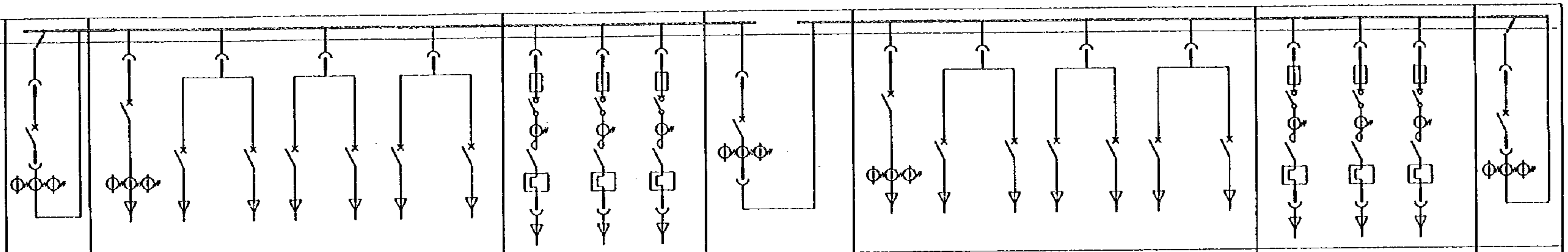
NUMBER OF HIGH-VOLTAGE SWITCH BOARD		G1		G2		G3		G4		G5		G6	
TYPE OF HIGH-VOLTAGE SWITCH		ZS1_018 (CHANG)		ZS1_028		ZS1_002		ZS1_002		ZS1_028		ZS1_018	
OUTLINE WxDxH		050*2200*1300		650*2200*1300		650*2200*1300		650*2200*1300		650*2200*1300		050*2200*1300	
MAIN INSTALLATION	FUSE	GEC-EA	1	SIBA	3					SIBA	3	GEC-EA	1
	LIGHTNING ARRESTER 3*MWF15				1						1		
	CURRENT TRANSFORMER MWB	50/5	2			50/5	3	50/5	3			50/5	2
	CIRCUIT BREAKERS VD4					IE=630A	1	IE=630A	1				
	POTENTIAL TRANSFORMER VES		2		3						3		2
	GROUND-SWITCH EK6						1		1				
	AMMETER 42L6-A 0-50A					50/5,1.5	3	50/5,1.5	3				
	VOLTMETER 42L6-V 0-12KV/100V			1.5	1					1.5	1		
	ELECTRIC METER 42L6-W0-400KW				1						1		
NAME OF HIGHT-VOLTAGE SWITCH BOARD		IN 1+MEASURE		P T		OUT 2		OUT 2		P T		IN 2+MEASURE	
CAPACITY OF INSTALLATION (KAV)		400KVA				400KVA		400KVA				400KVA	
CALCULATING CURRENT (A)													
CABLE SPECIFICATIONS (IN AND OUT)		YJV-10KV,3*50				YJV-10KV,3*50		YJV-10KV,3*50				YJV-10KV,3*50	
PIPE DIAMETER		G80				G80		G80				G80	
NUMBER OF HIGH-VOLTAGE AUXILIARY PLAN				JSJT-129-c-YH-07		JSJT-129-C -PB-20		JSJT-129-C -PB-20		JSJT-129-c-YH-07			

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
HIGH-VOLTAGE(10KV) POWER SUPPLY SYSTEM	
NO SCALE	DWG 44-E1
JAPAN INTERNATIONAL COOPERATION AGENCY	

BUS

MAIN WIRING PLAN

~380/220

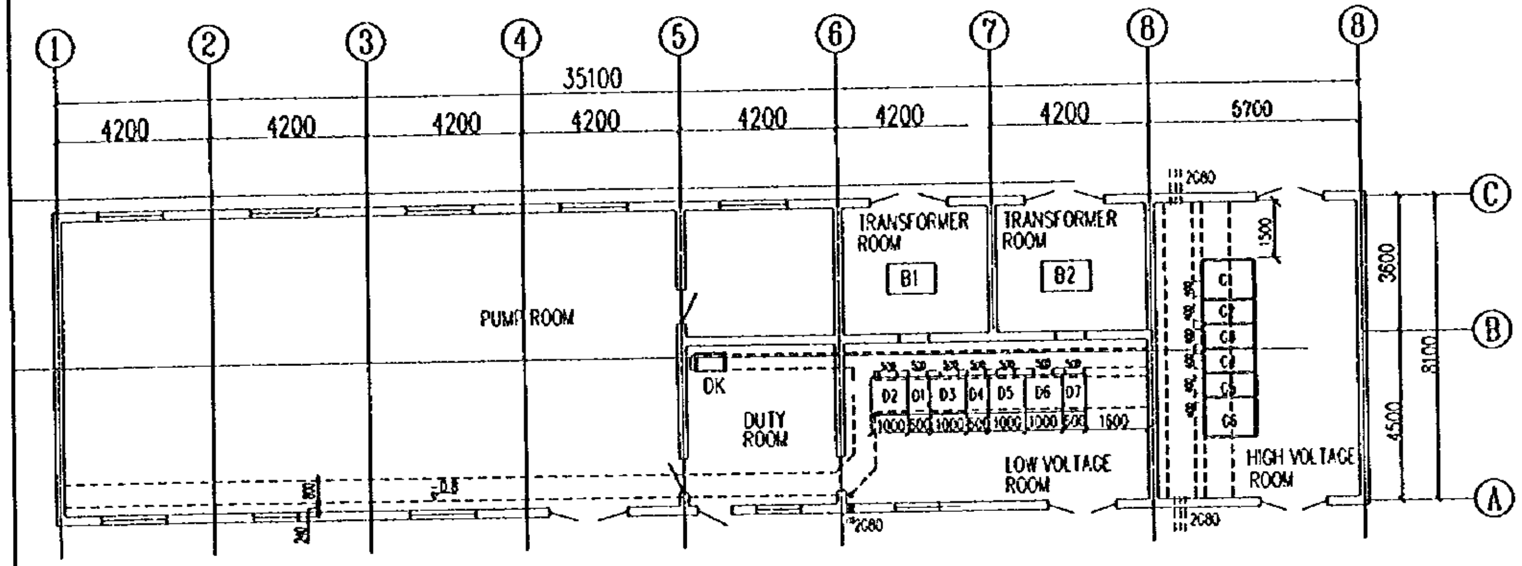


	D1	D2							D3		
NUMBER OF SWITCH BOARD	D1	D2							D3		
TYPE OF SWITCH BOARD	MNS-05	MNS-23-73•3							MNS-60•3		
WIDTH OF SWITCH BOARD	24E	40E	40E		40E		40E		40E		
HEIGHT OF INSTALLATION	72E	8E	8E		8E		8E		16E	16E	16E
HIGHEST CURRENT/CONTROL POWER		175A	50A	50A	50A	50A	50A	50A	100KW	100KW	100KW
MAIN INSTALLATION: CIRCUIT BREAKERS DW914-600	630A										
CURRENT TRANSFORMER LN10	3x800/5										
CIRCUIT BREAKERS HKB-250		IE=175A									
CURRENT TRANSFORMER LN2		3x200/5							150/5	150/5	150/5
CIRCUIT BREAKERS S503-K-H11			IE=10A	IE=10A	IE=10A	IE=32A	IE=10A	IE=10A			
FUSE NT-1									160A	160A	160A
LOAD SWITCH WITH FUSE SMP-00									160A	160A	160A
AC-CONTACTOR									B170	8170	8170
THERMAL RELAY									T170	T170	T170
CAPACITY OF INSTALLATION		80KW	1.5KW	1.5KW		10KW	1.5KW		75KW		
USE	1# POWER(IN)	SUB FIRE STATION	1# PUMP (IN)ELECTRIC VALVE	1# PUMP (OUT)ELECTRIC VALVE	RESERVE	LIGHTING OF FIRE PUMP STATION	POWER OF VALVE SWITCH BOARD	RESERVE	POWER OF 1# PUMP	RESERVE	RESERVE
CABLE NUMBER		12	01	02		11	10		07		

	D4	D5							D6			D7
NUMBER OF SWITCH BOARD	D4	D5							D6			D7
TYPE OF SWITCH BOARD	MNS-07	MNS-23-73•3							MNS-60•3			MNS-05
WIDTH OF SWITCH BOARD	24E	40E	40E		40E		40E		40E			24E
HEIGHT OF INSTALLATION	72E	8E	8E		8E		8E		16E	16E	16E	72E
HIGHEST CURRENT/CONTROL POWER		175A	50A	50A	50A	50A	50A	50A	100KW	100KW	100KW	
MAIN INSTALLATION: CIRCUIT BREAKERS DW914-600	630A											630A
CURRENT TRANSFORMER LN10	3x800/5											3x800/5
CIRCUIT BREAKERS HKB-250		IE=175A										
CURRENT TRANSFORMER LN2		3x200/5							150/5	150/5	150/5	
CIRCUIT BREAKERS S503-K-H11			IE=10A	IE=10A	IE=10A	IE=10A	IE=10A	IE=10A				
FUSE NT-1									160A	160A	160A	
LOAD SWITCH WITH FUSE SMP-00									160A	160A	160A	
AC-CONTACTOR									B170	B170	8170	
THERMAL RELAY									T170	T170	T170	
CAPACITY OF INSTALLATION		80KW	1.5KW	1.5KW		1.5KW	1.5KW		75KW		75KW	
USE	BUS CONTACT	SUB FIRE STATION	2# PUMP (IN)ELECTRIC VALVE	2# PUMP (OUT)ELECTRIC VALVE	RESERVE	3# PUMP (IN)ELECTRIC VALVE	3# PUMP (OUT)ELECTRIC VALVE	RESERVE	POWER OF 2# PUMP	RESERVE	POWER OF 3# PUMP	2# POWER (IN)
CABLE NUMBER		13	03	04		05	06		08		09	

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
LOW-VOLTAGE(400V) POWER SUPPLY SYSTEM	
NO SCALE	DWG 44-E2
JAPAN INTERNATIONAL COOPERATION AGENCY	

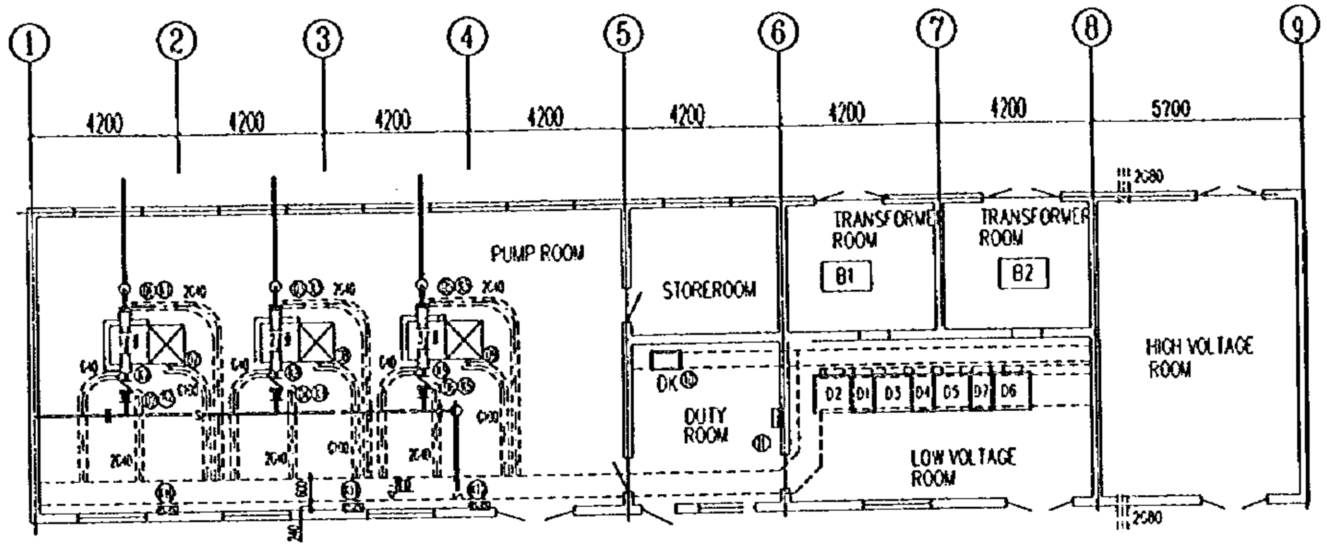
FACILITIES LAYOUT PLAN OF SUBSTATION



MATERIAL TABLE

NO.	TITLE	SECIFICATIONS	AMOUNT
B1 B2	THREE -PHASE TRASFOMEN	SCR-400/10/0.4	2
G1 G6	HIGH-VOLTAGE SWITCH BOARD	ZS1 018	2
G2 G5	HIGH-VOLTAGE SWITCH BOARD	ZS1 028	2
G3 G4	HIGH-VOLTAGE SWITCH BOARD	ZS1 002	2
D1 D7	LOW-VOLTAGE SWITCH BOARD	MNS-05	2
D2 D6	LOW-VOLTAGE SWITCH BOARD	MNS-23-73+3	2
D3 D5	LOW-VOLTAGE SWITCH BOARD	MNS-60+3	2
D4	LOW-VOLTAGE SWITCH BOARD	MNS-07	1
DK	VALVE CONTROL SWITCH BOARD		1

POWER RECEIVING AND DISTRIBUTION PLAN



EXPLAIN:

PSC: POWER SUPPLY CABLE
PCC: POWER CONTROL CABLE
EC: ELECTRIC CONNECTION PRESSURE METER
LVR: LOW VOLTAGE ROOM
LB: LIGHTING/RECEPTACLE DISTRIBUTION BOX
EV: ELECTRICALLY OPERATED FACILITIES FOR VALVE
PCB: CONTROL BUTTON BOX FOR PUMP
VSB: VALVE CONTROL SWITCH BOARD
PVSB: POWER OF VALVE CONTROL SWITCH BOARD
SFS: SUB FIRE STATION

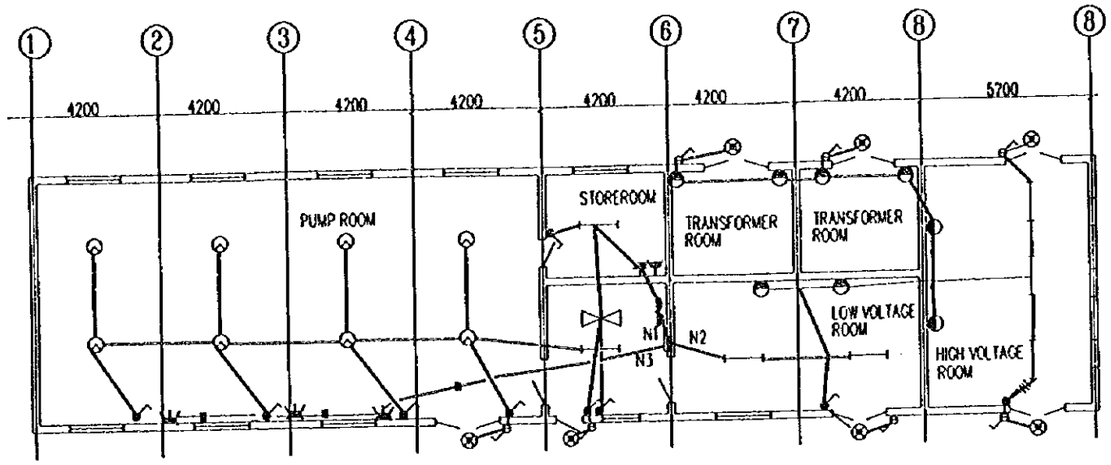
CABLE TABLE

NO.	TITLE	SPECIFICATIONS	UNIT	AMOUNT	TUBE	LENGTH	LINE
07	PSC	W-1KV 3+95+1+50	METRE	30	G100	8	LVR-1/ PUMP
08	PSC	W-1KV 3+95+1+50	METRE	26	G100	8	LVR-2/ PUMP
09	PSC	W-1KV 3+95+1+50	METRE	21	G100	8	LVR-3/ PUMP
01	PSC	W-1KV 3+4+1+2.5	METRE	30	C40	6	LVR-VSB-1/ EV (IN)
02	PSC	W-1KV 3+4+1+2.5	METRE	28	C40	5	LVR-VSB-1/ EV (OUT)
03	PSC	W-1KV 3+4+1+2.5	METRE	26	C40	6	LVR-VSB-2/ EV (IN)
04	PSC	W-1KV 3+4+1+2.5	METRE	24	C40	5	LVR-VSB-2/ EV (OUT)
05	PSC	W-1KV 3+4+1+2.5	METRE	21	C40	6	LVR-VSB-3/ EV (IN)
06	PSC	W-1KV 3+4+1+2.5	METRE	19	C40	5	LVR-VSB-3/ EV (OUT)
11	PSC	W-1KV 3+16+1+10	METRE	15	C40	2	LVR-LB
10	PSC	W-1KV 3+16+1+10	METRE	15	C40	2	LVR-PVSB
12	PSC	W22-1KV 3+95+1+50	METRE	100	G100	8	LVR-SFS
K1	PCC	KVV-500 19+1.5	METRE	30	C40	6	VSB -1/ EV(IN)
K2	PCC	KVV-500 19+1.5	METRE	28	C40	5	VSB -1/ EV(OUT)
K3	PCC	KVV-500 19+1.5	METRE	26	C40	6	VSB -2/ EV(IN)
K4	PCC	KVV-500 19+1.5	METRE	24	C40	5	VSB -2/ EV(OUT)
K5	PCC	KVV-500 19+1.5	METRE	21	C40	6	VSB -3/ EV(IN)
K6	PCC	KVV-500 19+1.5	METRE	19	C40	5	VSB -3/ EV(OUT)
K7	PCC	KVV-500 6+1.5	METRE	30	C40	6	VSB -1/ EV
K8	PCC	KVV-500 6+1.5	METRE	26	C40	6	VSB -2/ EV
K9	PCC	KVV-500 6+1.5	METRE	21	C40	6	VSB -3/ EV
K10	PCC	KVV-500,5+2.5	METRE	28	C40	5	VSB -1/ EC
K11	PCC	KVV-500,5+2.5	METRE	24	C40	5	VSB -2/ EC
K12	PCC	KVV-500,5+2.5	METRE	19	C40	5	VSB -3/ EC

(O O)	CONTROL BUTTON BOX	LA10-2K	3
	ELECTRICALLY OPERATED FACILITIES FOR VALVE	SMC-00	6
⊘	ELECRIC CONNECTION PRESSURE METER	Y-150 220	3

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
POWER RECEIVING AND DISTRIBUTION FACILITIES	
SCALE 0 1.0 2.5 5.0m	DWG 44-E3
JAPAN INTERNATIONAL COOPERATION AGENCY	

LINGHTING



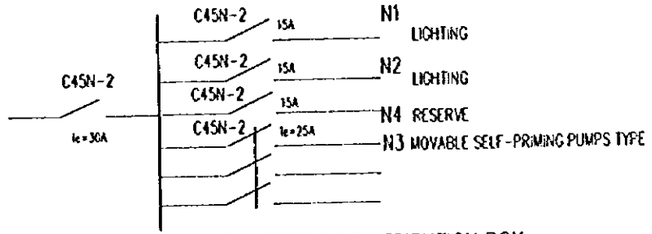
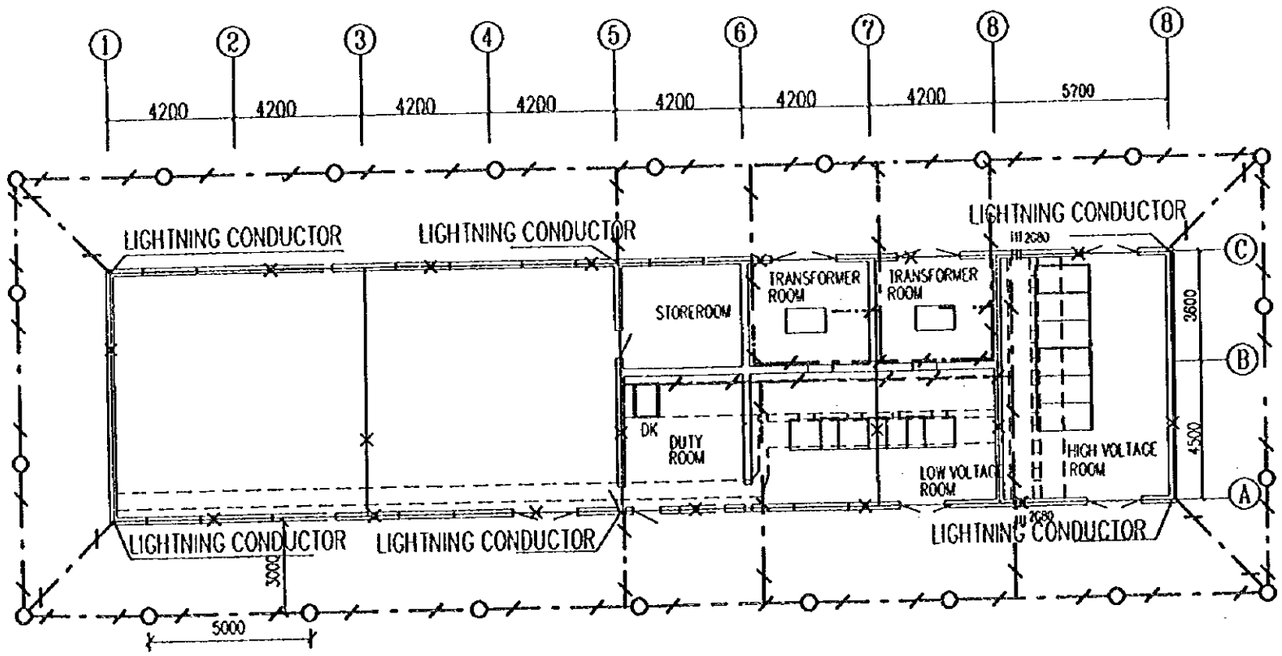


DIAGRAM OF LINGTING/RECEPTACLE DISTRIBUTION BOX

NO.	SYMBOL	INSTALLATIONS	SPECIFICATIONS	UNIT	QUANTITY	REMAKES
15		POWER SUPPLY CABLE	VV-1KV 3×4+1×2.5MM	METRE	35	
14		ELECTRIC PIPE	G15	METRE	300	
13		ELECTRIC PIPE	G20	METRE	35	
12		CABLE	BV-500 2.5 MM	METRE	250	
11		CABLE	BV-500 4MM	METRE	50	
10		3-PHASE SOCKET	380V 15A		3	
9		HANGING UP INDUSTRIAL LAMP	HD3201-2		8	
8		CEILING FAN	FREE		1	
7		FLUORECSENT	HD5025		7	
6		WALL FITTING	HD1009		8	
5		SWITCH ENCLOSED	250V 5A		10	
4		WATER AND DUST PROOF OVERHEAD LIGHT	HD3215-2		7	
3		SWITCH	250V 5A		7	
2		LIGHTING/RECEPTACLE DISTRIBUTION BOX	XRM102-07-1		1	430×280×90
1		1 PHASE SOCKET	250V 15A		2	

INSTALLATIONS TABLE

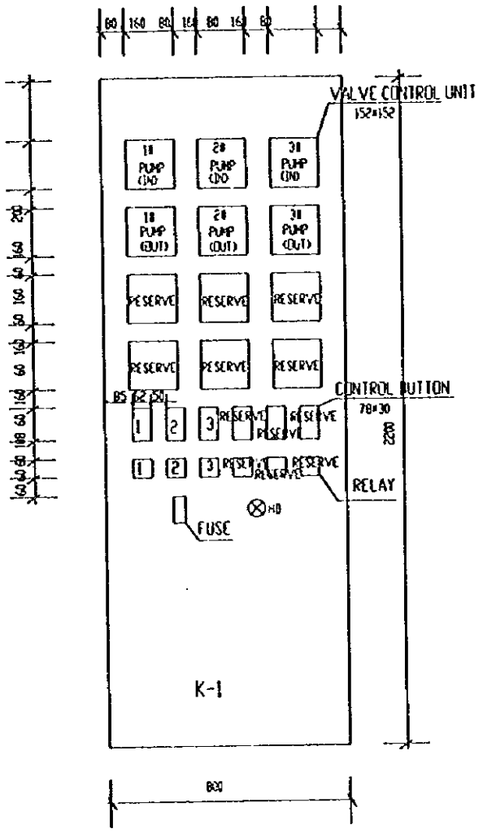
LIGHTNING DISCHARGE AND GROUNDING PLAN

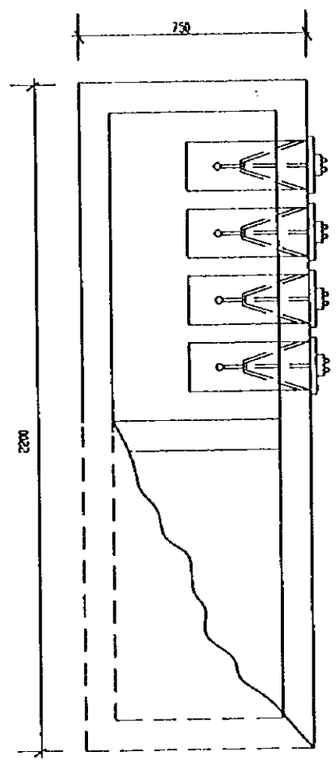


MATERIAL TABLE

SYMBOL	INSTALLATIONS	SECIFICATIONS	UNIT	QUANTITY
-×-	LIGHTNING DISCHARGE WIRE	ø8 CIRCLE STEEL	METRE	140
○	GROUNDING ELECTRODE	L 50×50×5×2500	METRE	22
-/-	EARTH WIRE	— 40×4	METRE	200

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL ARPORT PROJECT	SEPTEMBER 1997
LIGHTING PLAN, LIGHTNING DISCHARGE AND GROUNDING PLAN	
SCALE 1:0 2:3 3:m	DWG 44-E4
JAPAN INTERNATIONAL COOPERATION AGENCY	





NO.	INSTALLATIONS	SPECIFICATIONS	QUANTITY
5	FUSE	RL1-15A	1
4	RELAY	JZ8-44,220V	3
3	CONTROL BUTTON	LA10-2K	3
2	VALVE CONTROL UNIT		6
1	VALVE CONTROL SWITCH BOARD	800×750×2200	1

INSTALLATIONS TABLE

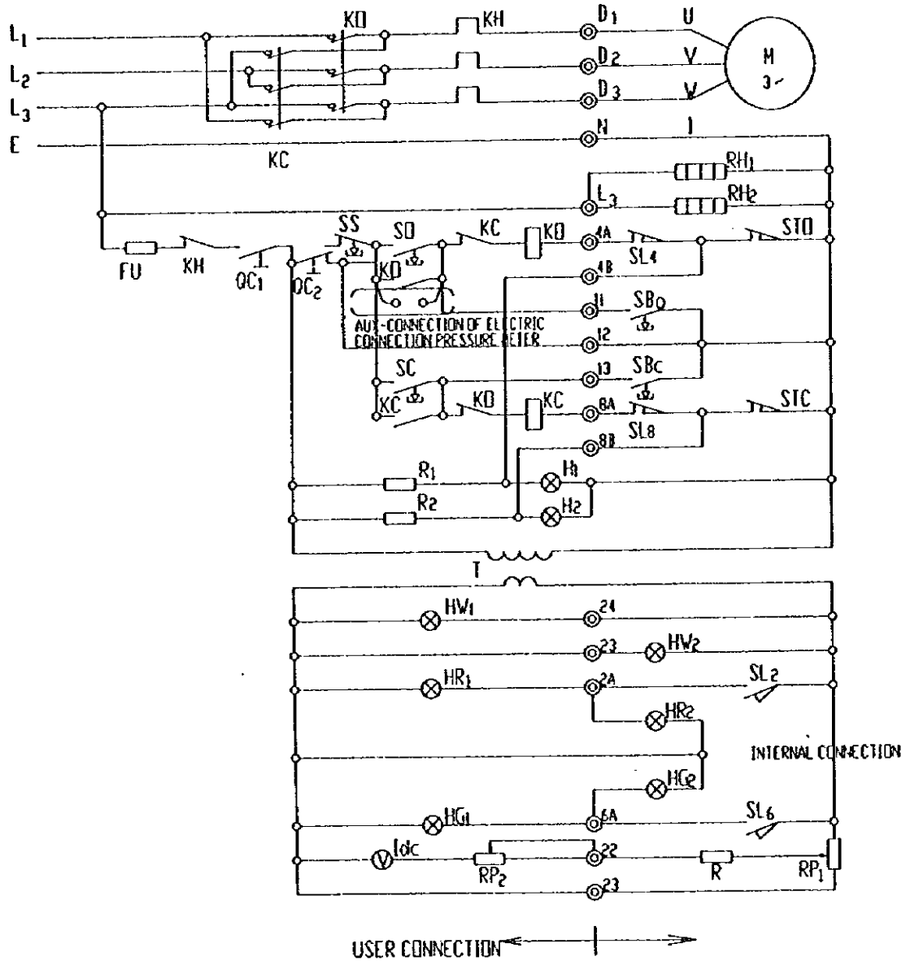
PEOPLE'S REPUBLIC OF CHINA

SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997

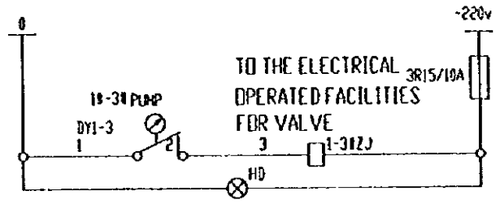
VALVE CONTROL SWITCH BOARD PANAL PLAN

SCALE | DWG 44-E5

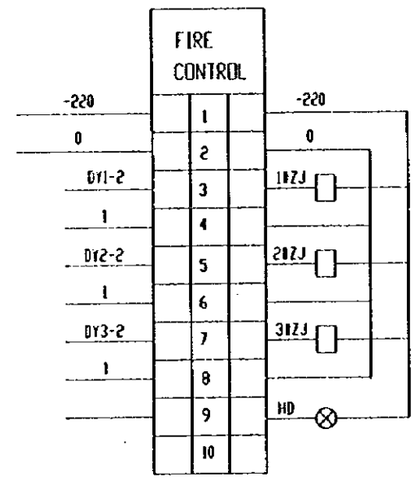
JAPAN INTERNATIONAL COOPERATION AGENCY



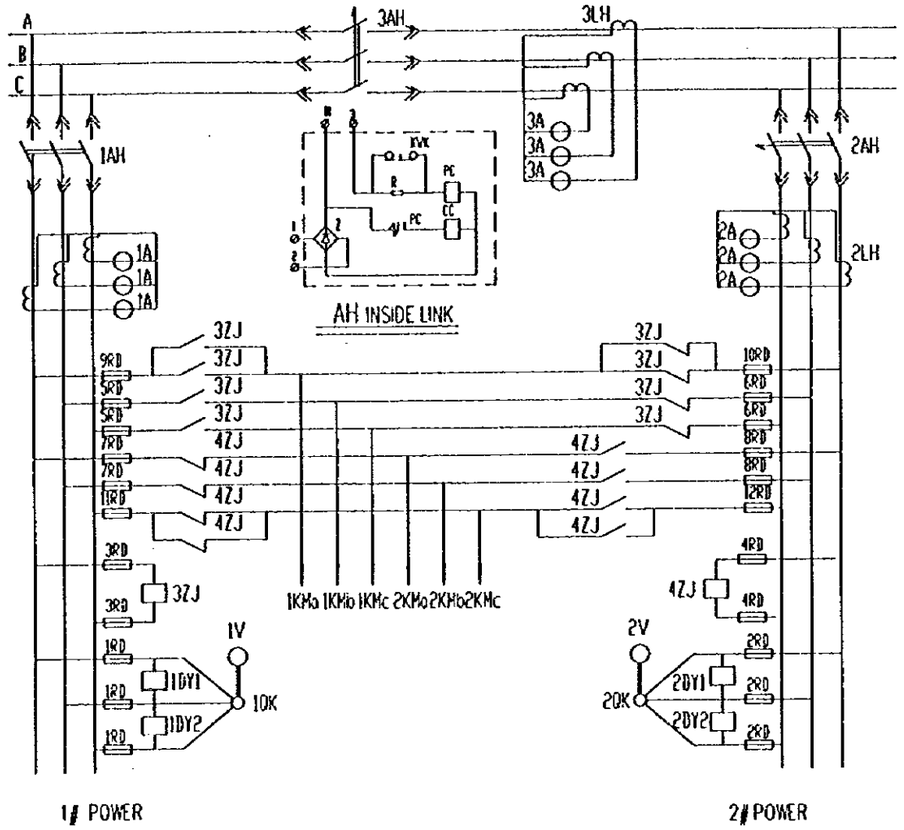
WITH FIELD OPERATION

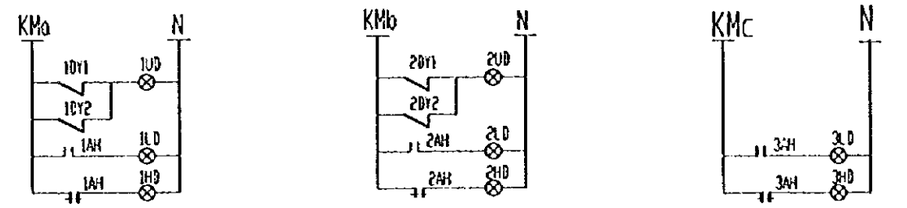


CONTROL DIAGRAM OF ELECTRIC CONNECTION PRESSURE METER



PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
FIRE PUMP ELECTRIC CONTROL DIAGRAM	
SCALE	DWG 44-E6
JAPAN INTERNATIONAL COOPERATION AGENCY	



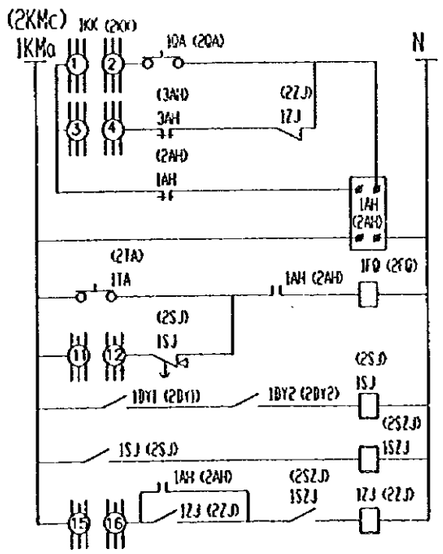


1AH SIGNAL CIRCUIT

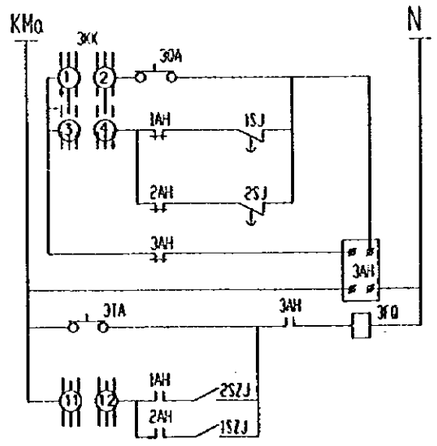
2AH SIGNAL CIRCUIT

3AH SIGNAL CIRCUIT

SYSMBOL	TITLE	SECIFICATIONS	AMOUNT	REMAKES
1-3AH	CIRCUIT BREAKERS	DETAILS IN LOW-VOLTAGE MAIN WIRING PLAN	3	
1-3LH	CIRCUIT TRANSFORMER	DETAILS IN LOW-VOLTAGE MAIN WIRING PLAN	3	
1-2V	VOLTMETER	DETAILS IN LOW-VOLTAGE MAIN WIRING PLAN	2	
1-3A	AMMETER	DETAILS IN LOW-VOLTAGE MAIN WIRING PLAN	3	
1-20K	SWITCH OF CHANGE VOLTAGE	LW5-15E0491/2	2	
1-3KK	TRANFORM SWITCH	LW5-15D1050/4	3	
1-8RD	FUSES	RL1-15/10	18	
9-12RD	FUSES	RL1-60/20	4	
1-2UD	YELLOW LAMP	XDT-220/12V,1.2W	2	
1-3LD	GREEN LAMP	XDT-220/12V,1.2W	3	
1-3HD	RED LAMP	XDT-220/12V,1.2W	3	
1-30A	RAD BUTTON	AD11	3	
1-3TA	GREEN BUTTON	AD11	3	
1-2DY1-2	VOLTAGE RELAY	DJ132/320	4	
1-2SJ	TIME RELAY	DSJ-13,220V	2	0.5s-0.9S
1-2ZJ	RELAY	JZ7-44,220V	2	
1-2SZJ	RELAY	JZ7-44,220V	2	
3-4ZJ	RELAY	JZ7-44,380V	2	

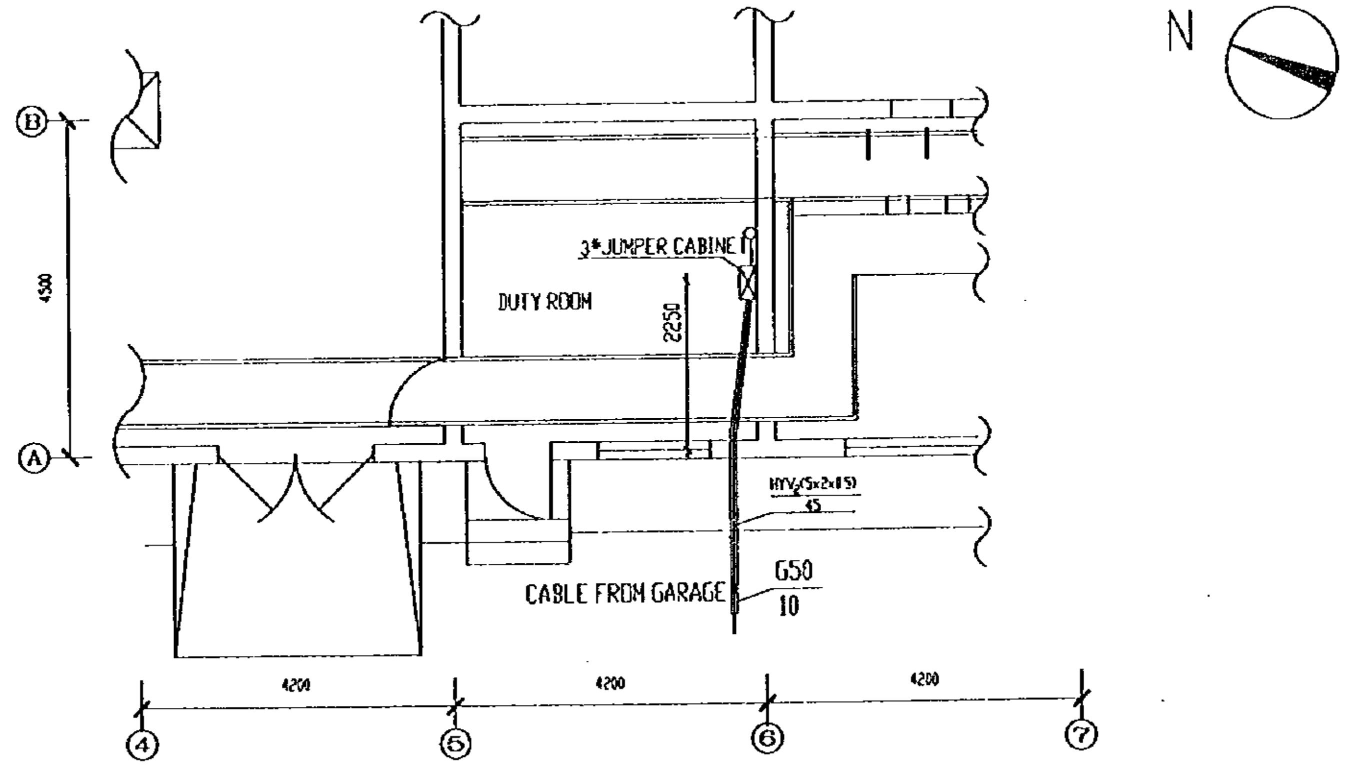


1AH(2AH)AUXILIARY CIRCUIT



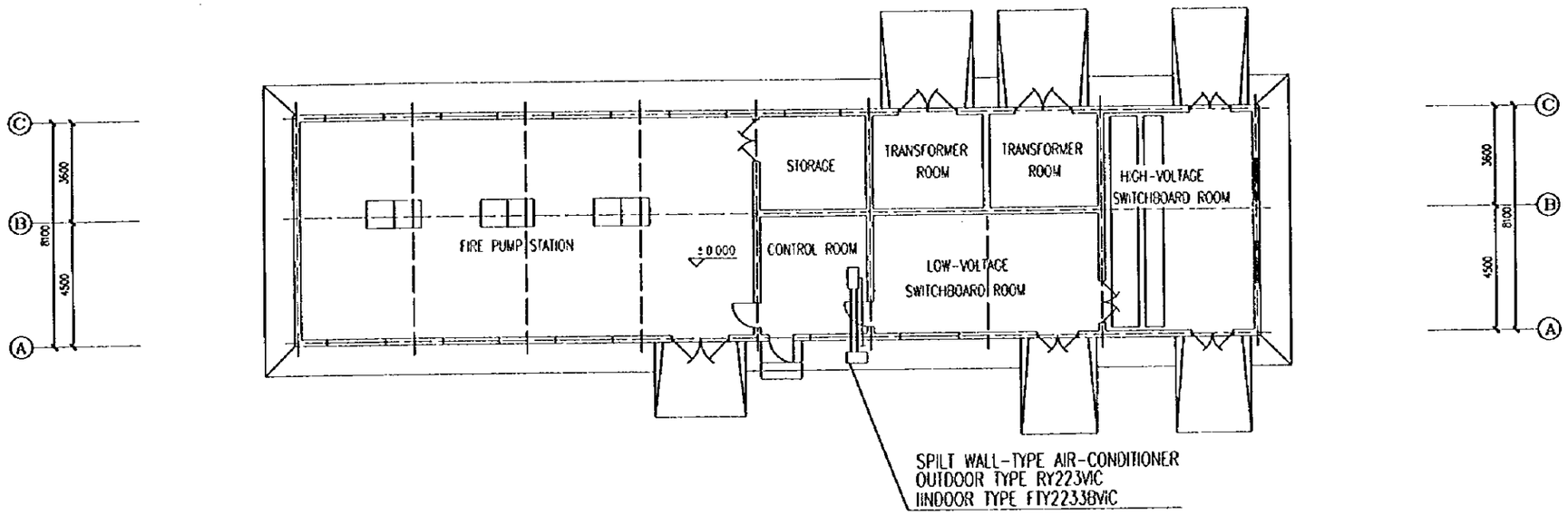
3AH AUXILIARY CIRCUIT

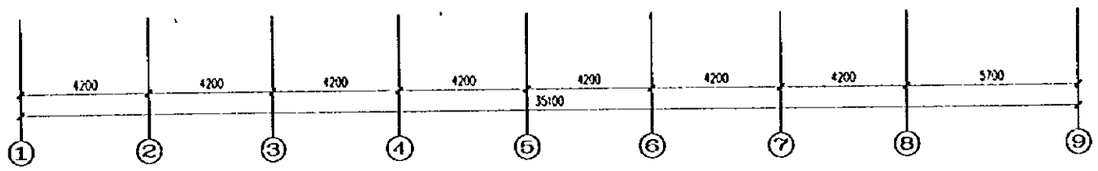
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
FIRE PUMP STATION AUXILIARY WIRING PLAN	
SCALE	DWG 44-E7
JAPAN INTERNATIONAL COOPERATION AGENCY	



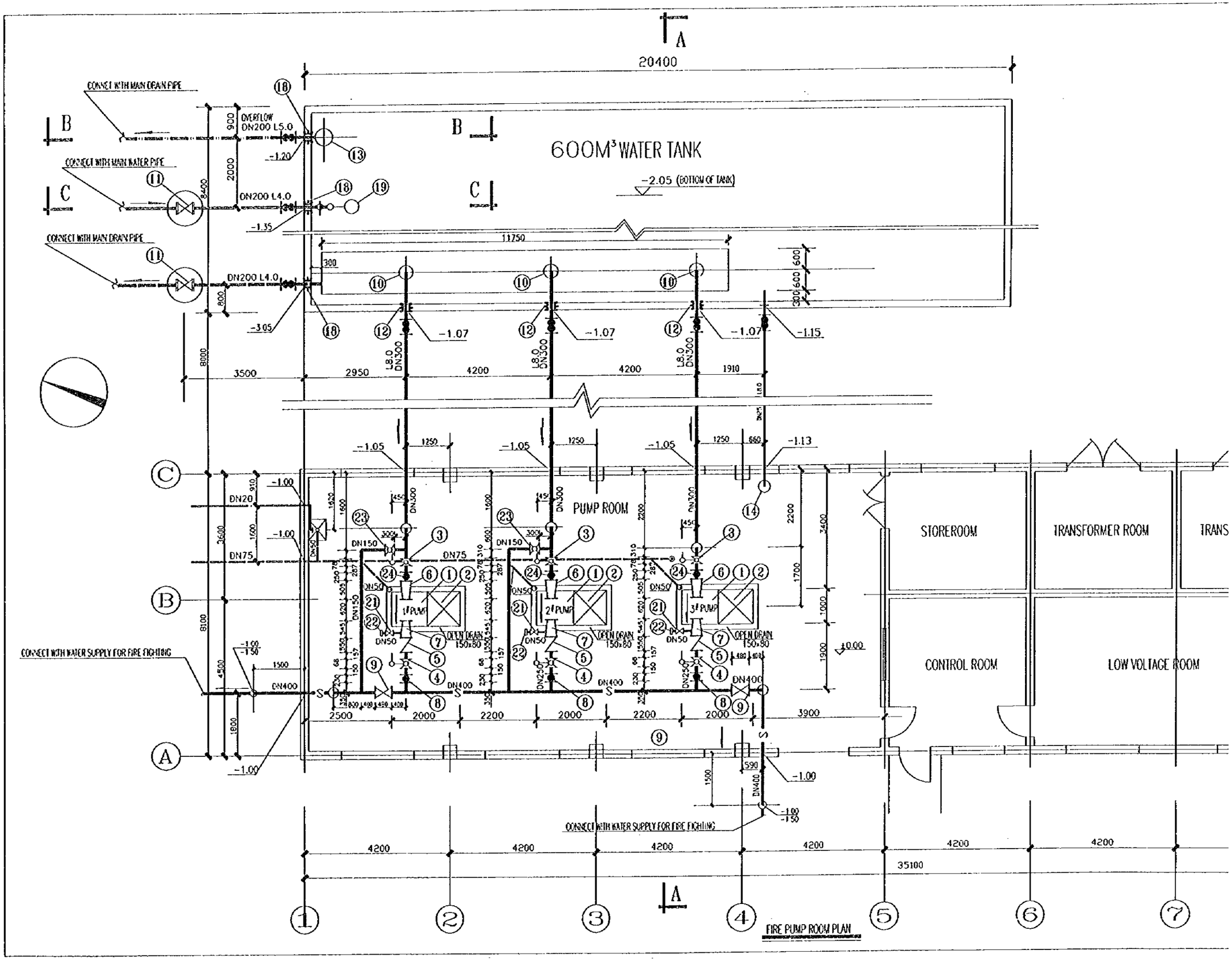
PLAN WIRING DIAGRAM

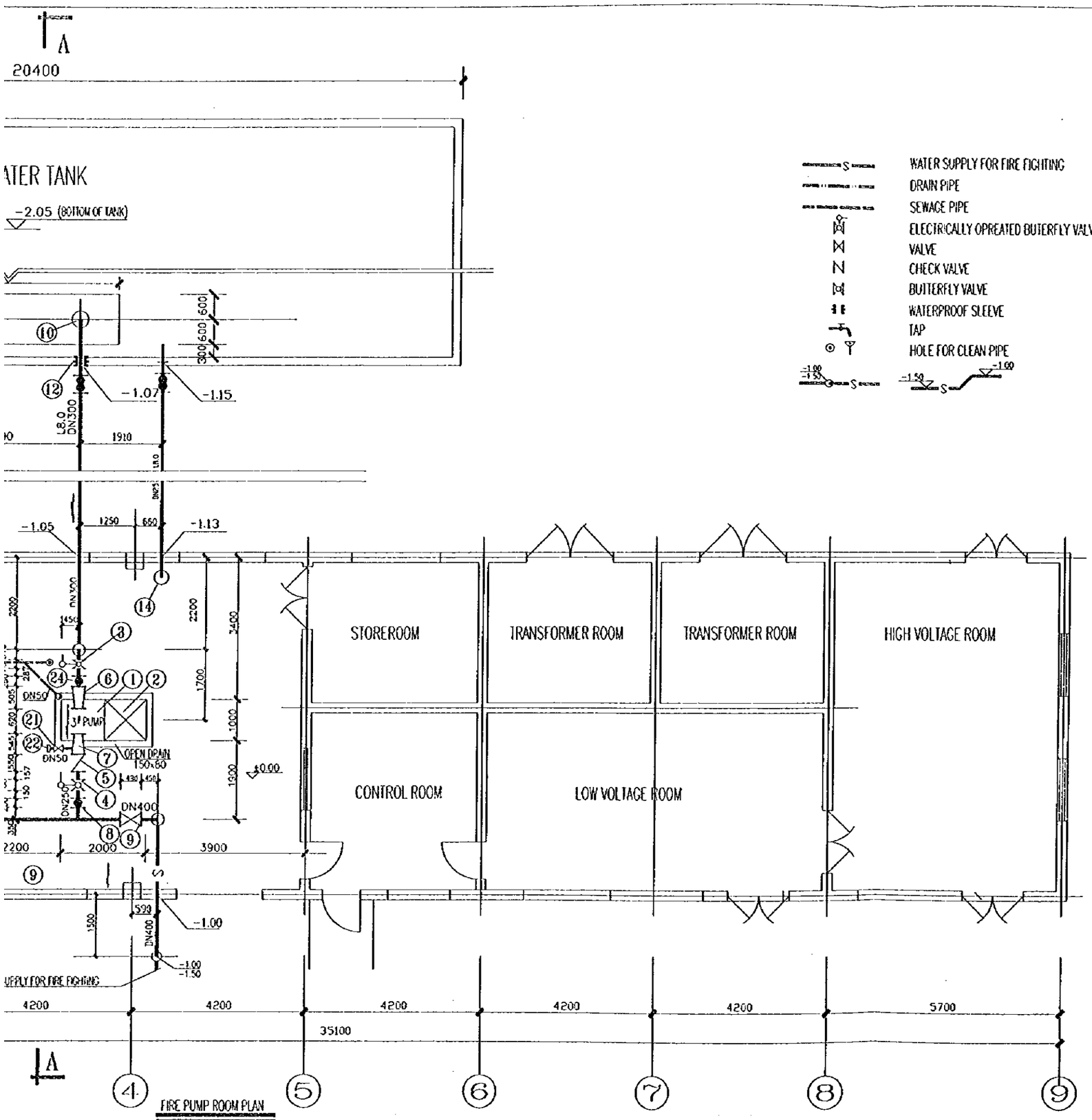
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
TELEPHONE PLAN	
SCALE 0 0.5 1.25 2.5m	DWG 44-EC1
JAPAN INTERNATIONAL COOPERATION AGENCY	





PEOPLE'S REPUBLIC OF CHINA		
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT		SEPTEMBER 1997
AC PLAN		
SCALE 0 1.0 2.5 5.0m		DWG 44-M1
JAPAN INTERNATIONAL COOPERATION AGENCY		


A
20400
B
C
600M³ WATER TANK
-2.05 (BOTTOM OF TANK)
CONNECT WITH MAIN DRAIN PIPE
CONNECT WITH MAIN WATER PIPE
CONNECT WITH MAIN DRAIN PIPE
OVERFLOW DN200 L5.0
DN200 L4.0
DN200 L4.0
-1.20
-1.35
-3.05
11750
3500
2950
4200
4200
1910
-1.07
-1.07
-1.07
-1.15
-1.05
-1.05
-1.05
-1.13
PUMP ROOM
1# PUMP
2# PUMP
3# PUMP
OPEN DRAIN 150×80
CONNECT WITH WATER SUPPLY FOR FIRE FIGHTING
CONNECT WITH WATER SUPPLY FOR FIRE FIGHTING
STOREROOM
TRANSFORMER ROOM
CONTROL ROOM
LOW VOLTAGE ROOM
35100
FIRE PUMP ROOM PLAN



FIRE PUMP ROOM PLAN

LEGEND

- WATER SUPPLY FOR FIRE FIGHTING
- DRAIN PIPE
- SEWAGE PIPE
- ELECTRICALLY OPREATED BUTTERFLY VALVE
- VALVE
- CHECK VALVE
- BUTTERFLY VALVE
- WATERPROOF SLEEVE
- TAP
- HOLE FOR CLEAN PIPE
- WATER SUPPLY
- EXPANSION JOINT
- REDUCER
- REDUCER
- EXPANSION JOINT
- VALVE CHAMBER
- OVERFLOW
- FLOOR DRAIN
- CUT-OFF VALVE
- DRAW WATER PIPE

QUANTITIES OF MATERIAL

ITEM NO.	ITEM	TYPE	UNIT	QUANTITY	REMARKS
①	FIRE PUMP	8sh-9 Q=60-97.5l/s,H=69-50M	SET	3	TOW USEING AND ONE PREPARING
②	MOTOR	Y280S, N=75kw	SET	3	PROVIDING WITH 8sh-9 PUMP
③	ELECTRICALLY OPERATED BUTTERFLY VALVE	Z944T-10,DN=300	SET	3	
④	ELECTRICALLY OPERATED BUTTERFLY VALVE	Z944T-10,DN=250	SET	3	
⑤	SLOWLY CHECSLOWLY CK VALVE	HH44T-10,DN=250	EACH	3	
⑥	BIG/SMALL ECCENTRICITY CONNECTOR	DN=300x200	EACH	3	
⑦	BIG/SMALL CONNECTOR	DN=250x125	EACH	3	
⑧	EXPANSION JOINT	TJ14-250	EACH	3	
⑨	VALVE	Z41T-10,DN=400	EACH	2	
⑩	DRAW WATER PIPE	DN=300x450	EACH	3	
⑪	BUTTERFLY VALVE	Z41T-10,DN=200	EACH	2	
⑫	WATERPROOF SLEEVE	ø377	EACH	3	GB BATTERN S312,8-7
⑬	OVERFLOW	DN=300x200	EACH	1	
⑭	TYPE FLOAT WATER LEVEL WEIGH		SET	1	GB BATTERN S318,9-9
⑮	OPERATE SINGLE BY HAND	WA2	SET	1	
⑯	CRANE BY HAND	HS2	SET	1	
⑰	SINGLE TRUCK STEEL BEAM	32a	METER	16	
⑱	WATERPROOF SLEEVE	ø273	EACH	3	GB BATTERN S312,8-7
⑲	FLOAT VALVE	100X-0200,DN=200	EACH	1	
⑳	PRESSURE FIGURE	YX-150, 0~10	EACH	3	
㉑	VALVE	Z41T-10,DN=50	EACH	3	
㉒	CONNECT WITH PIPE QUICK	ø50	EACH	3	
㉓	BUTTERFLY VALVE	Z41T-10,DN=150	EACH	2	
㉔	EXPANSION JOINT	TJ14-300	EACH	3	

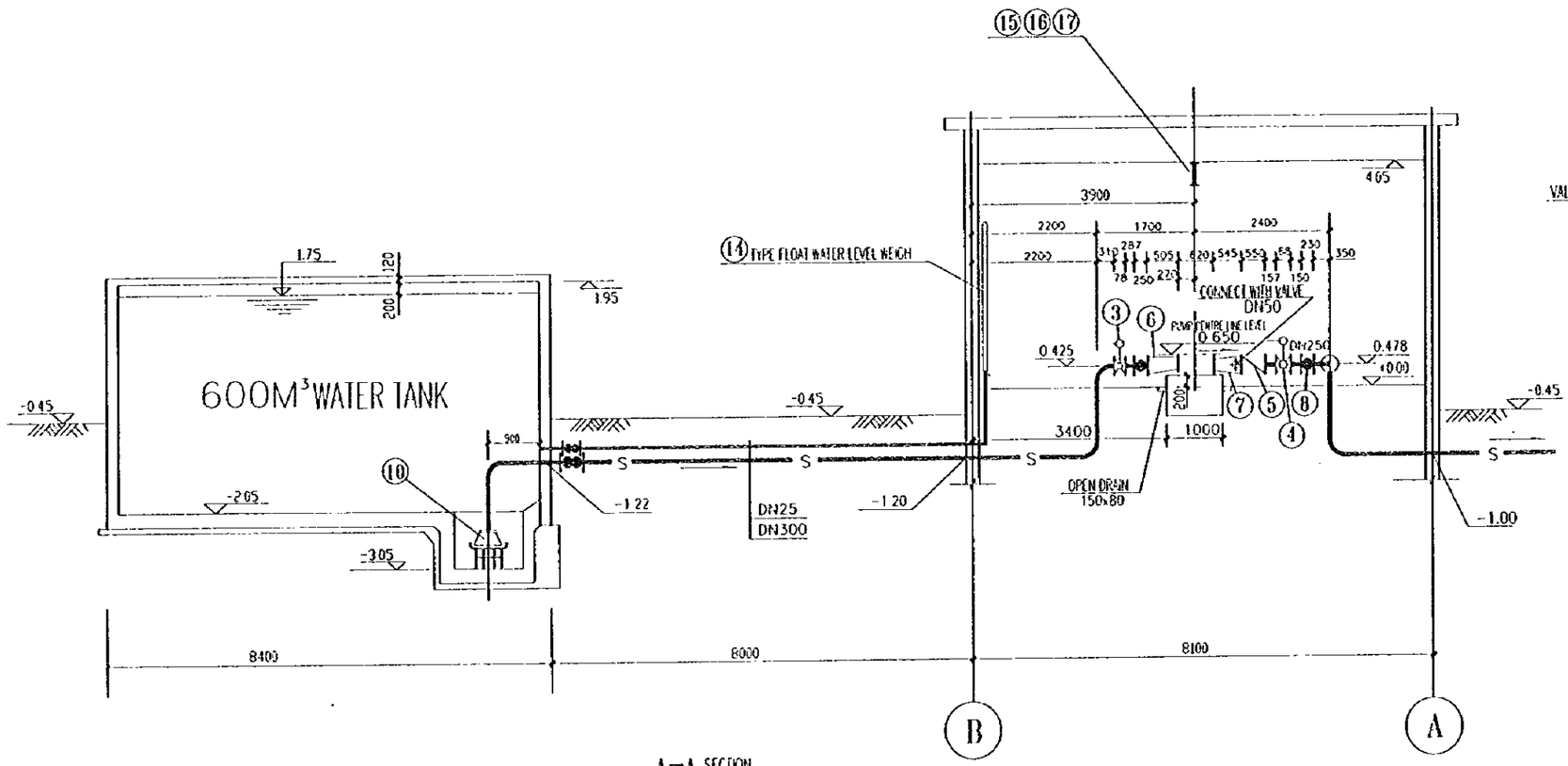
PEOPLE'S REPUBLIC OF CHINA

SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997

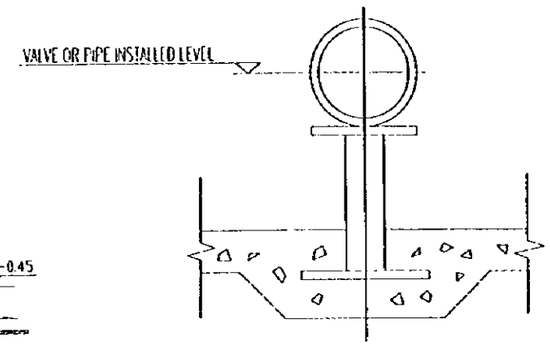
FIRE HYDRANT PIPING PLAN

SCALE 1:50 1:25 1:75 | DWG 44-MP1

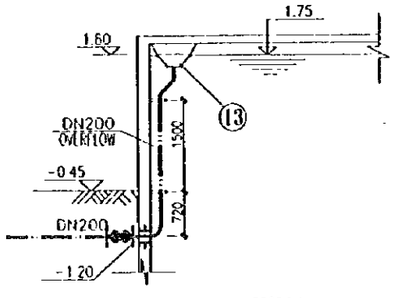
JAPAN INTERNATIONAL COOPERATION AGENCY



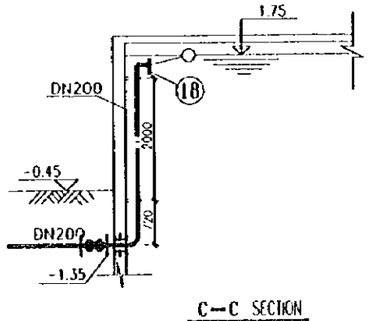
A—A SECTION



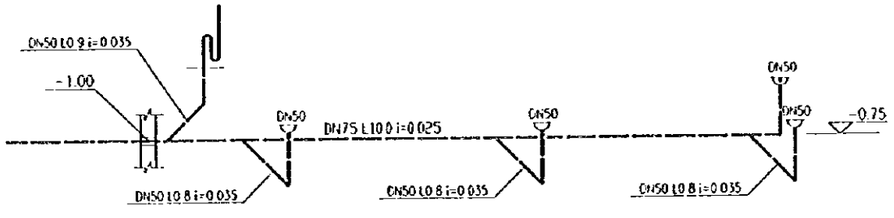
DETAIL DRAWING OF SUPPORTING



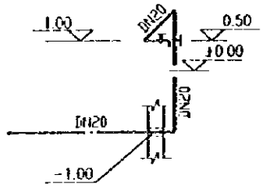
B—B SECTION



C—C SECTION

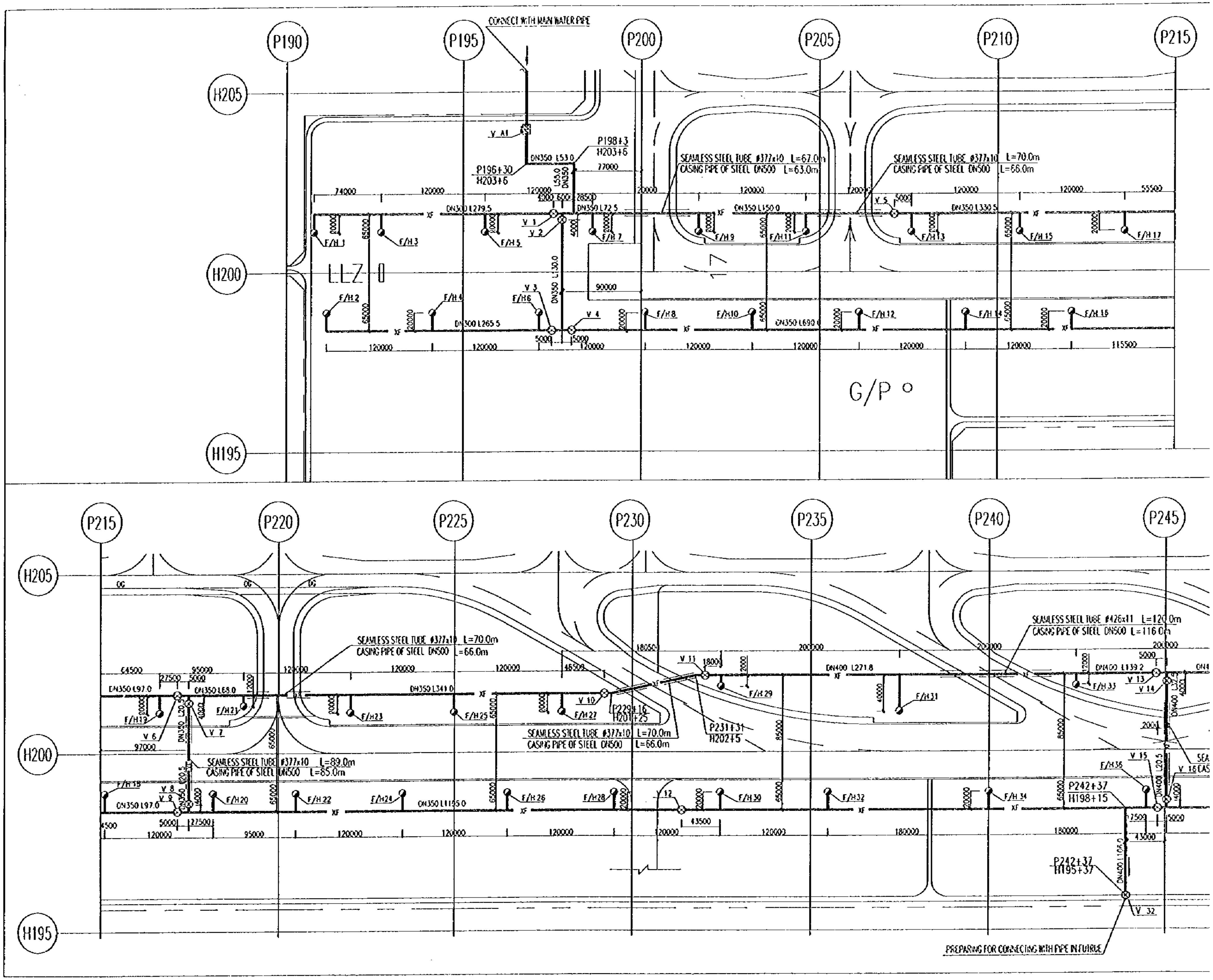


DRAIN SYSTEM FIGURE



WATER SUPPLY SYSTEM FIGURE

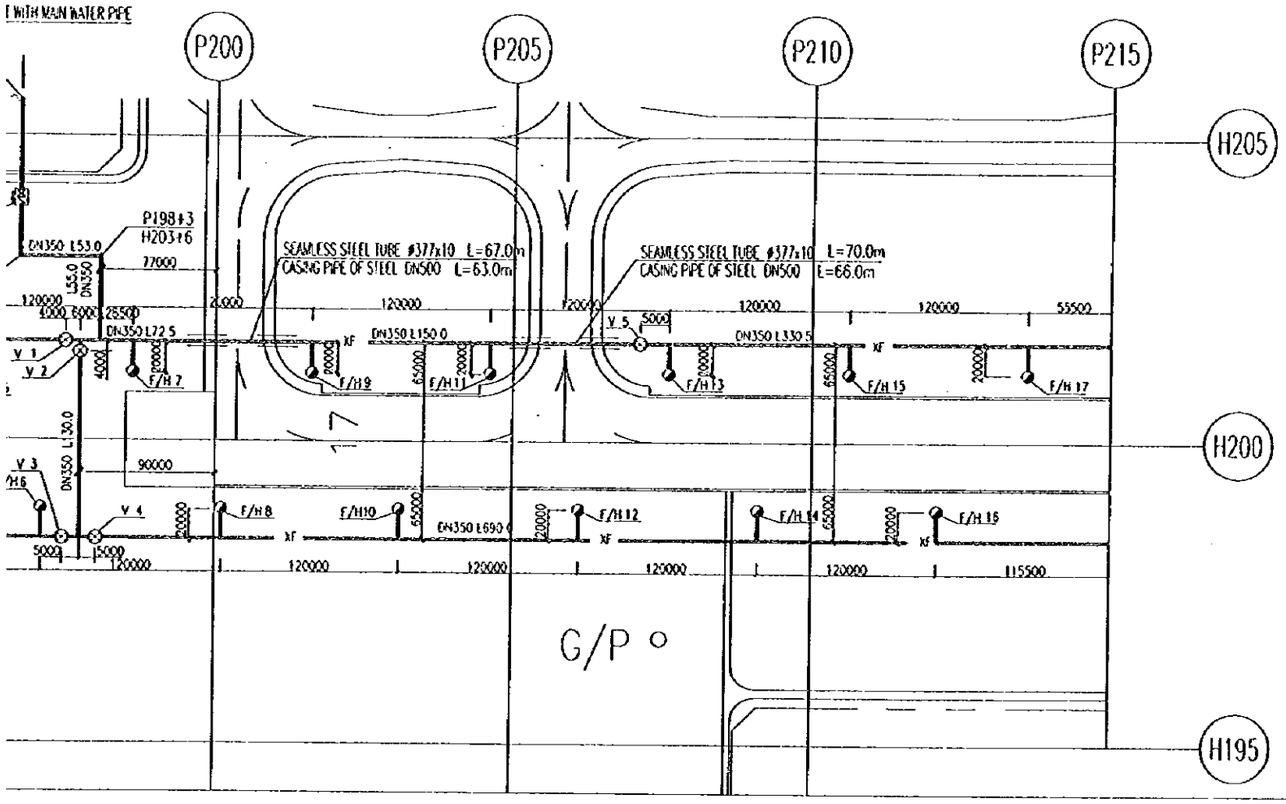
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
FIRE HYDRANT PIPING DETAILS	
SCALE	DWG 11-MP2
JAPAN INTERNATIONAL COOPERATION AGENCY	



CONNECT WITH MAIN WATER PIPE
P190
P195
P200
P205
P210
P215
H205
H200
H195
V A1
P196+30
H203+6
P198+3
H203+6
DN350 L53.0
SEAMLESS STEEL TUBE ø377x10 L=67.0m
CASING PIPE OF STEEL DN500 L=63.0m
SEAMLESS STEEL TUBE ø377x10 L=70.0m
CASING PIPE OF STEEL DN500 L=66.0m
DN300 L279.5
DN350 L72.5
DN350 L150.0
DN350 L330.5
DN350 L130.0
DN300 L265.5
DN350 L690.0
LLZ 0
G/P 0
P220
P225
P230
P235
P240
P245
SEAMLESS STEEL TUBE ø377x10 L=70.0m
CASING PIPE OF STEEL DN500 L=66.0m
SEAMLESS STEEL TUBE ø426x11 L=120.0m
CASING PIPE OF STEEL DN500 L=116.0m
DN350 L97.0
DN350 L68.0
DN350 L341.0
DN400 L271.8
DN400 L139.2
SEAMLESS STEEL TUBE ø377x10 L=89.0m
CASING PIPE OF STEEL DN500 L=85.0m
SEAMLESS STEEL TUBE ø377x10 L=70.0m
CASING PIPE OF STEEL DN500 L=66.0m
P229+16
H201+25
P231+31
H202+5
DN350 L97.0
DN350 L1195.0
P242+37
H198+15
P242+37
H195+37
V 32
PREPARING FOR CONNECTING WITH PIPE IN FUTURE

WITH MAIN WATER PIPE

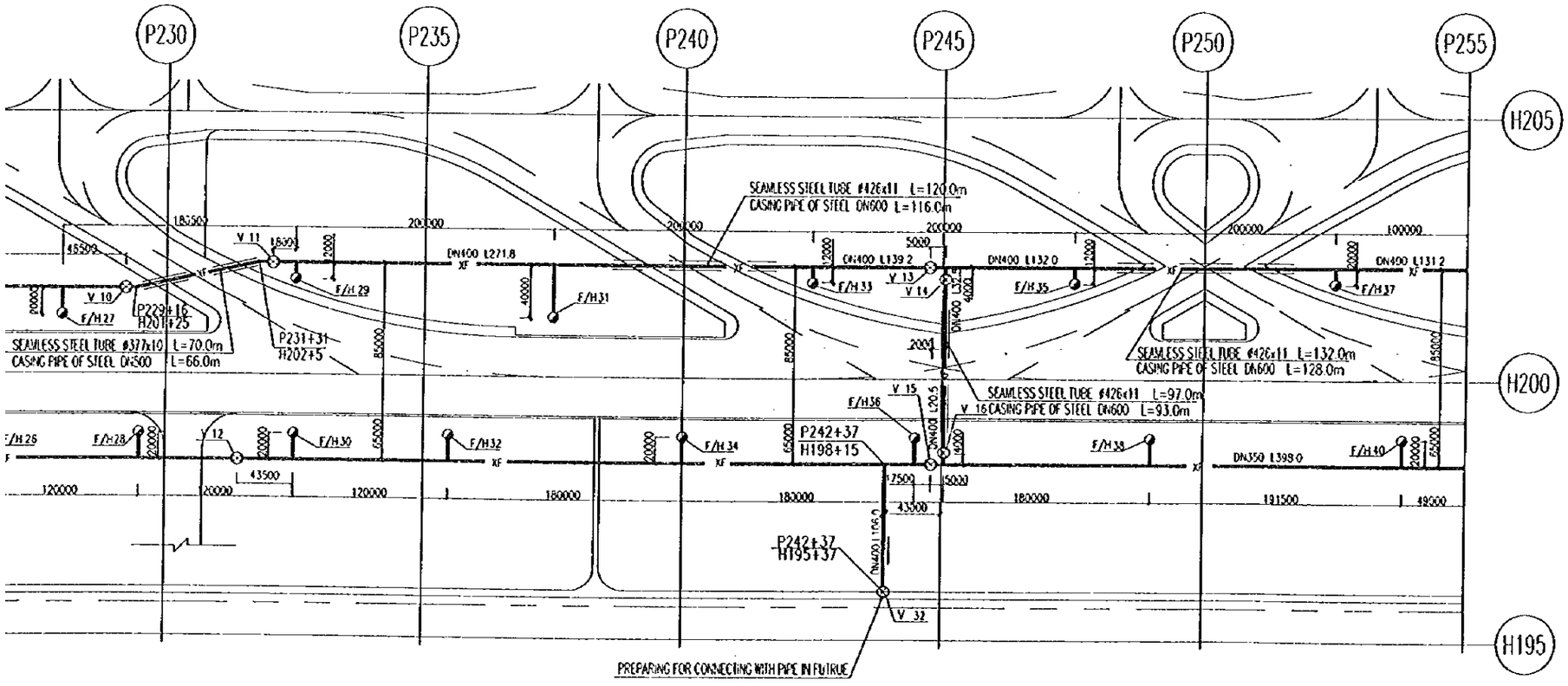
P190~P215 PLAN



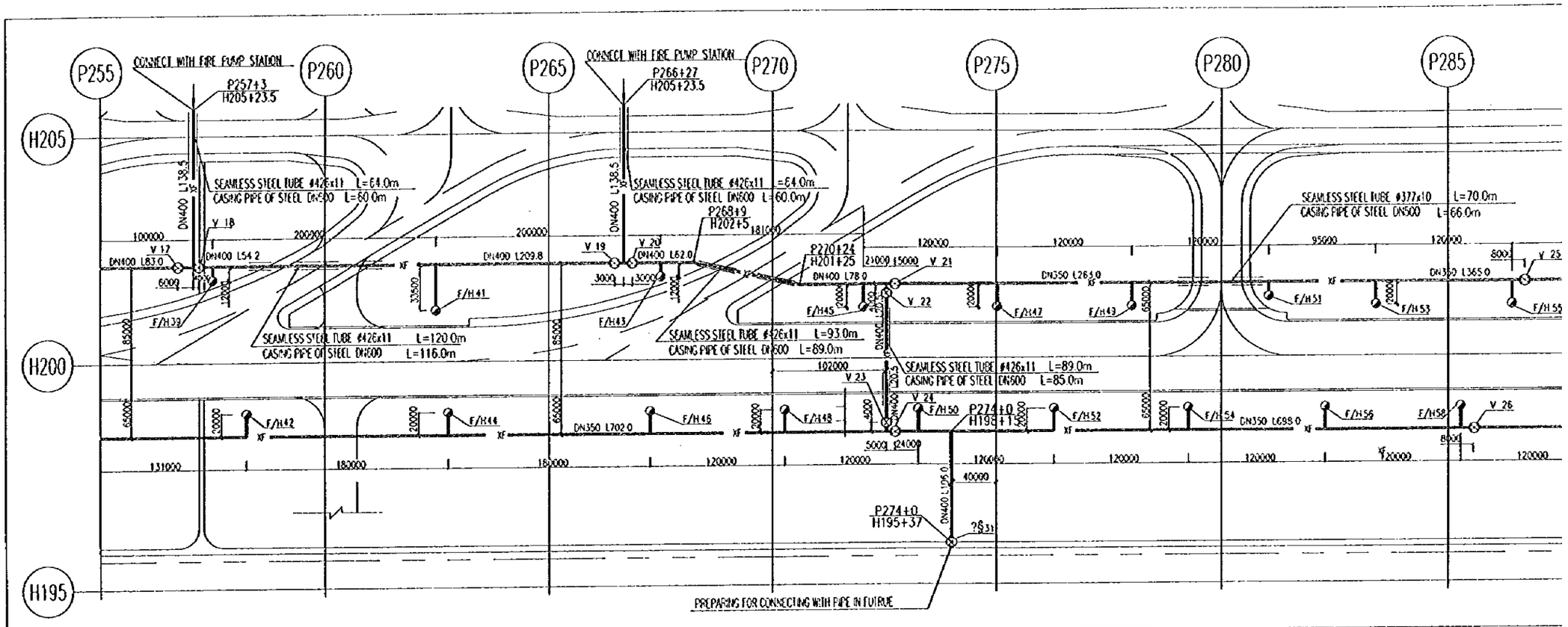
LEGEND

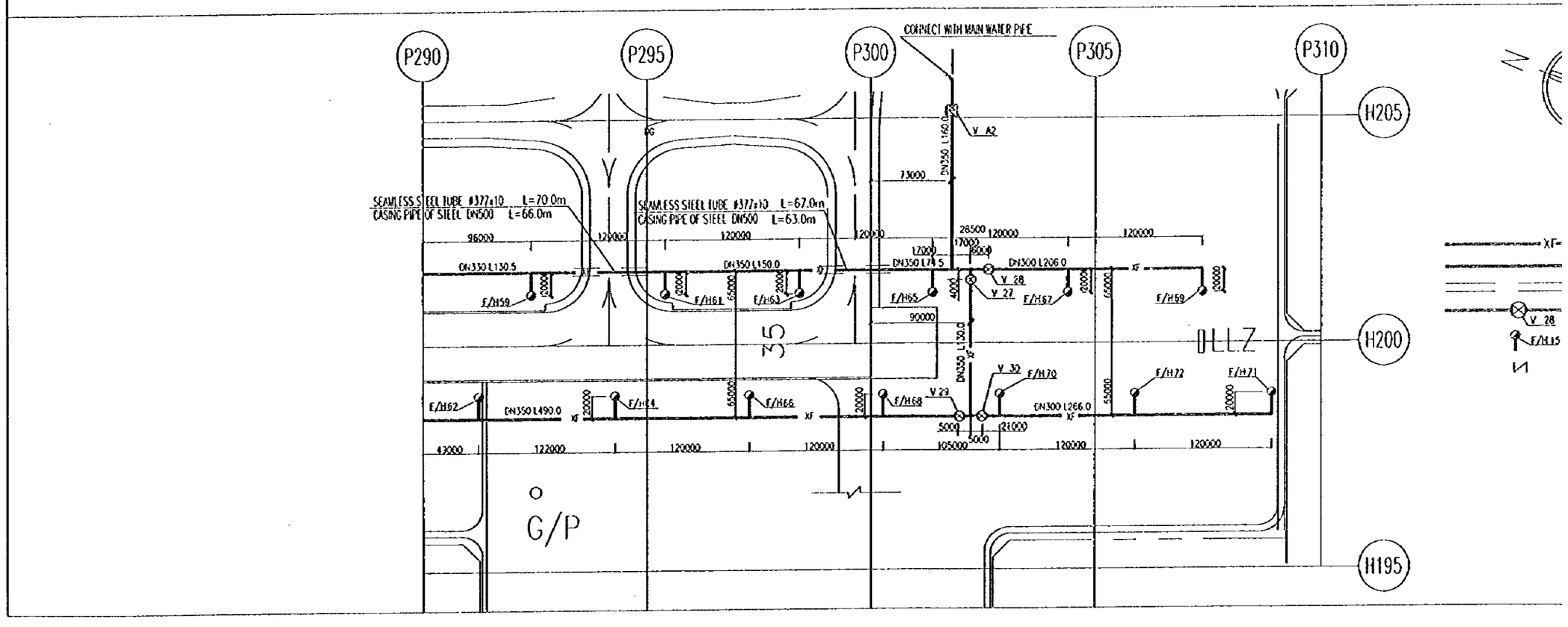
- XF — WATER SUPPLY PIPE FOR FIRE FIGHTING
- WATER SUPPLY PIPE
- CASING PIPE OF STEEL
- V 28 — VALVE AND VALVE CHAMBER
- F/H15 — FIRE HYDRANT
- CHECK VALVE

P215~P255 PLAN

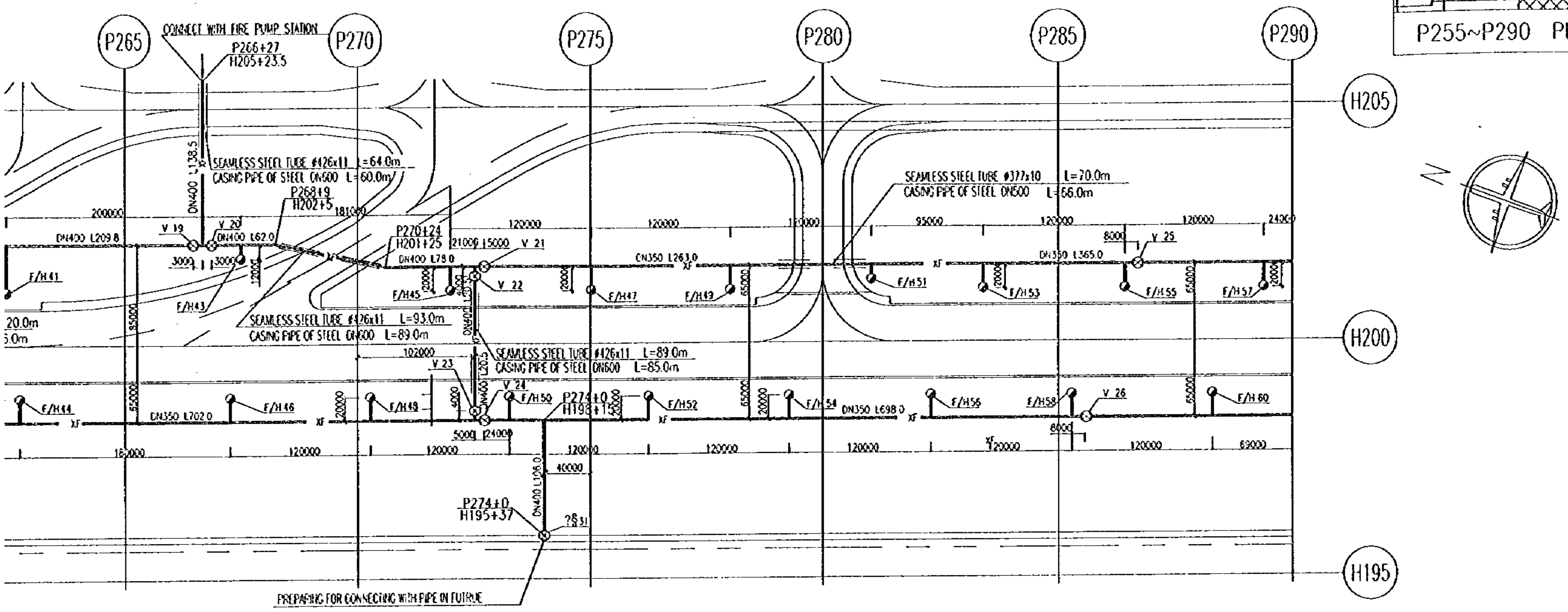


PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
AREA SIDE FIRE HYDRANT LAYOUT PLAN (1)	
SCALE	DWG 44-U1
JAPAN INTERNATIONAL COOPERATION AGENCY	

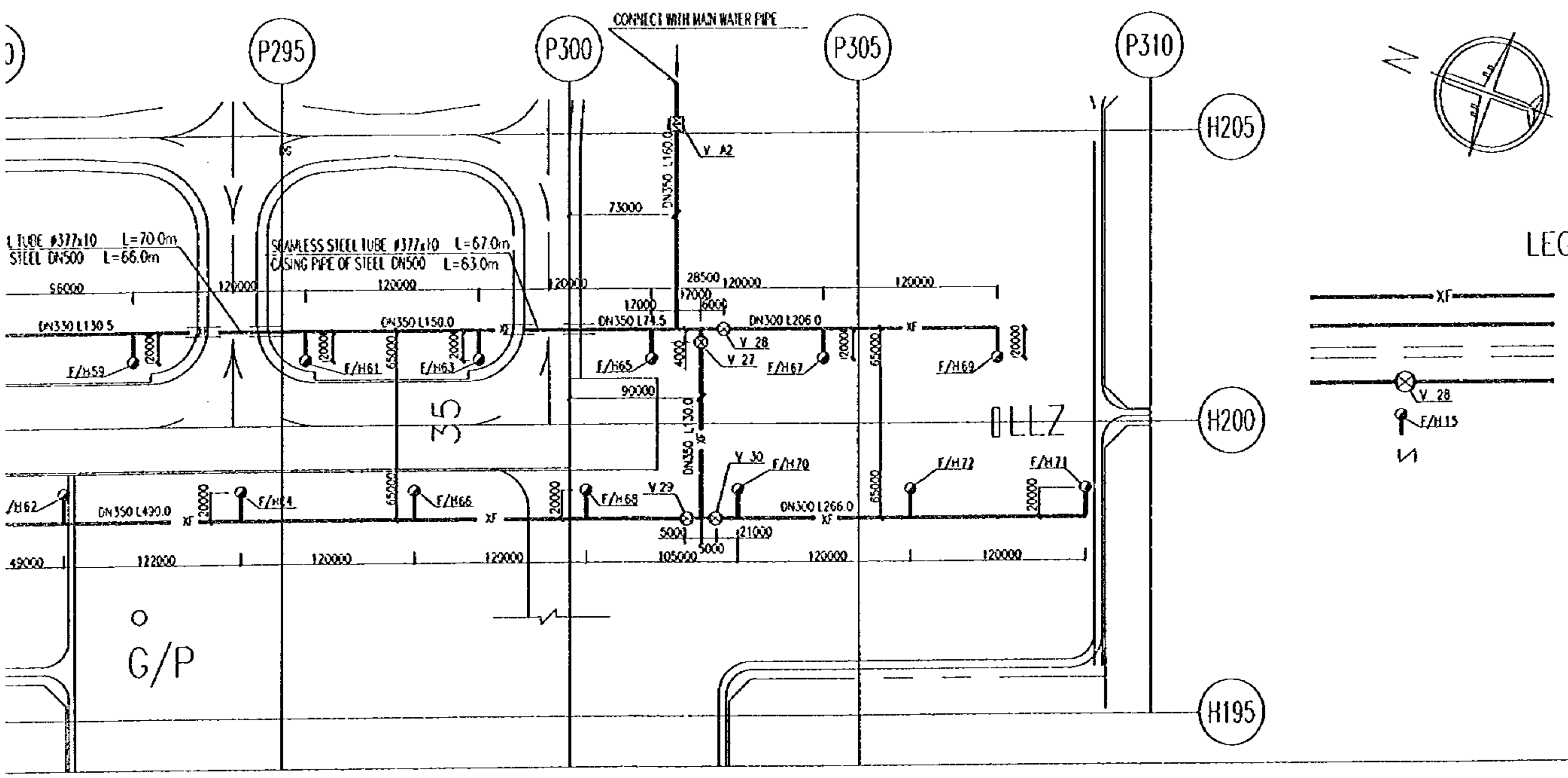

P255
P260
P265
P270
P275
P280
P285
H205
H200
H195
CONNECT WITH FIRE PUMP STATION
P257+3
H205+23.5
CONNECT WITH FIRE PUMP STATION
P266+27
H205+23.5
SEAMLESS STEEL TUBE Φ426x11 L=64.0m
CASING PIPE OF STEEL DN600 L=60.0m
SEAMLESS STEEL TUBE Φ426x11 L=64.0m
CASING PIPE OF STEEL DN600 L=60.0m
P268+9
H202+5
SEAMLESS STEEL TUBE Φ377x10 L=70.0m
CASING PIPE OF STEEL DN500 L=66.0m
SEAMLESS STEEL TUBE Φ426x11 L=120.0m
CASING PIPE OF STEEL DN600 L=116.0m
SEAMLESS STEEL TUBE Φ426x11 L=93.0m
CASING PIPE OF STEEL DN600 L=89.0m
SEAMLESS STEEL TUBE Φ426x11 L=89.0m
CASING PIPE OF STEEL DN500 L=85.0m
P270+24
H201+25
P274+0
H195+11
P274+0
H195+37
PREPARING FOR CONNECTING WITH PIPE IN FUTURE
DN400 L138.5
DN400 L83.0
DN400 L54.2
DN400 L209.8
DN400 L62.0
DN400 L78.0
DN350 L263.0
DN350 L365.0
DN350 L702.0
DN350 L698.0
DN400 L196.0
V 12
V 18
V 19
V 20
V 21
V 22
V 23
V 24
V 25
V 26
V 31
F/H38
F/H41
F/H42
F/H43
F/H44
F/H45
F/H46
F/H47
F/H48
F/H50
F/H51
F/H52
F/H53
F/H54
F/H55
F/H56
F/H58


P290
P295
P300
P305
P310
H205
H200
H195
CONNECT WITH MAIN WATER PIPE
SEAMLESS STEEL TUBE Φ377x10 L=70.0m
CASING PIPE OF STEEL DN500 L=66.0m
SEAMLESS STEEL TUBE Φ377x10 L=67.0m
CASING PIPE OF STEEL DN500 L=63.0m
DN350 L160.0
DN350 L130.5
DN350 L150.0
DN350 L174.5
DN300 L206.0
DN350 L130.0
DN350 L490.0
DN300 L266.0
V A2
V 27
V 28
V 29
V 30
F/H59
F/H61
F/H62
F/H63
F/H64
F/H65
F/H66
F/H67
F/H68
F/H69
F/H70
F/H71
F/H72
G/P

P255~P290 PLAN



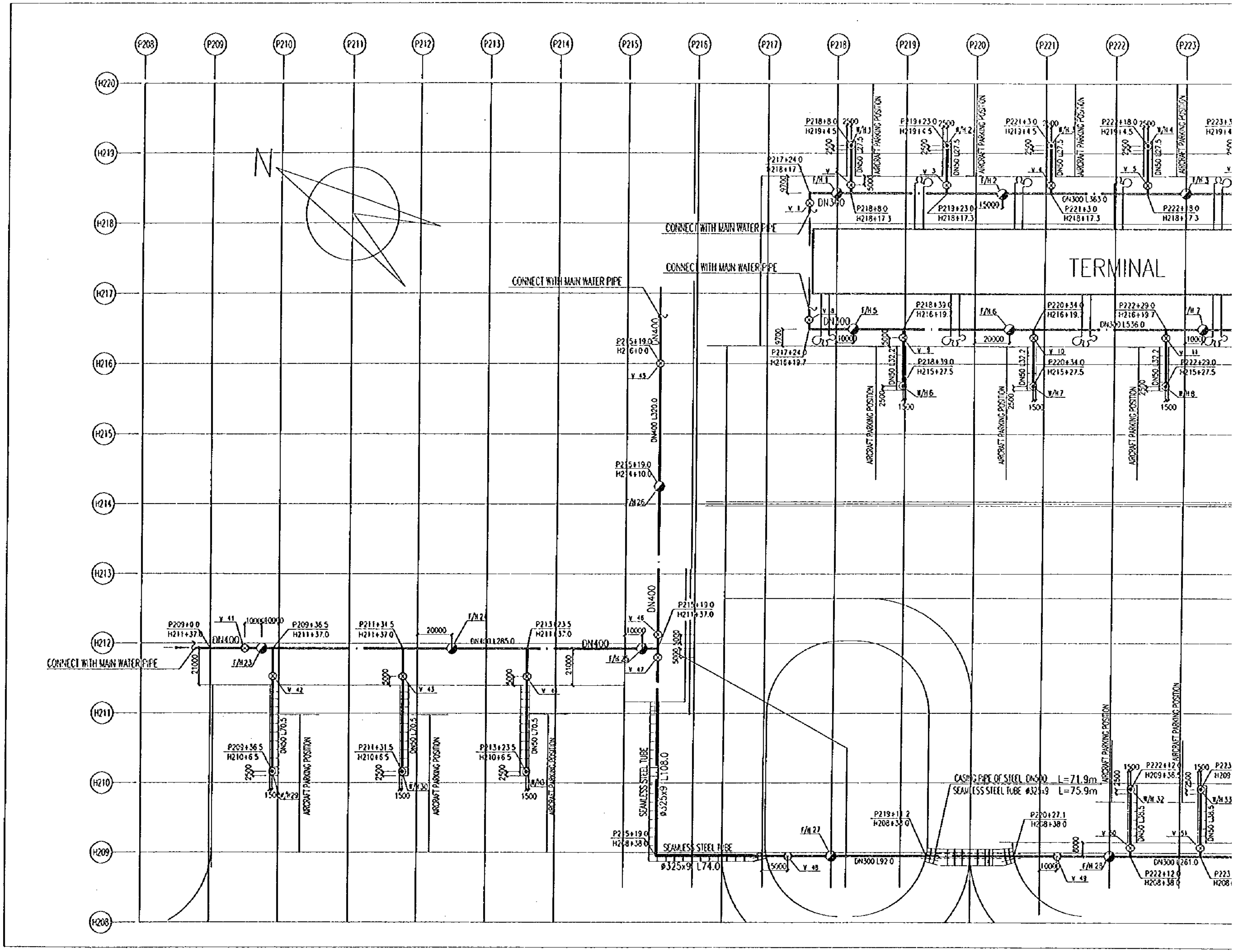
P290~P310 PLAN



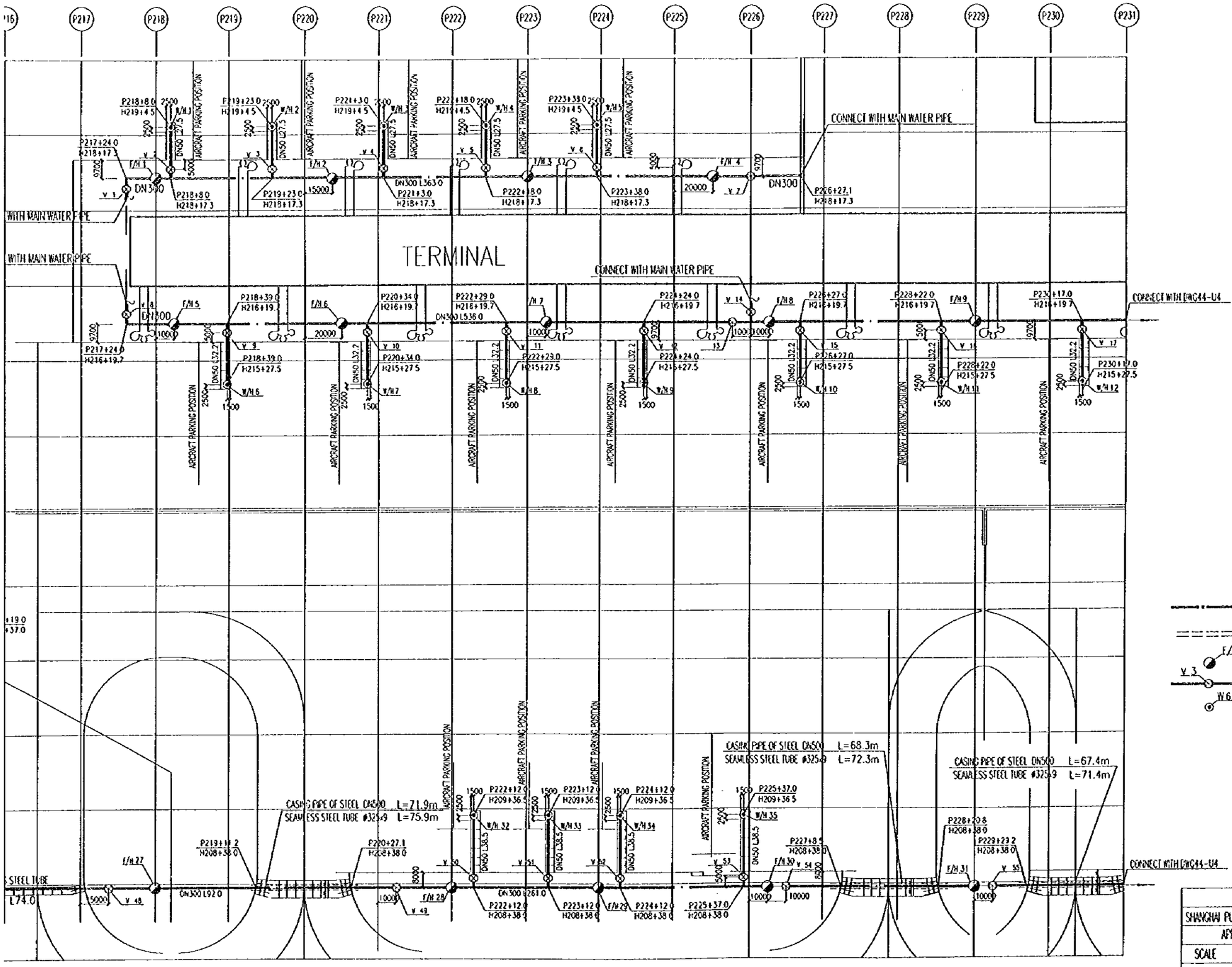
LEGEND

XF	WATER SUPPLY PIPE FOR FIRE FIGHTING
	WATER SUPPLY PIPE
	CASING PIPE OF STEEL
V 28	VALVE AND VALVE CHAMBER
F/H15	FIRE HYDRANT
	CHECK VALVE

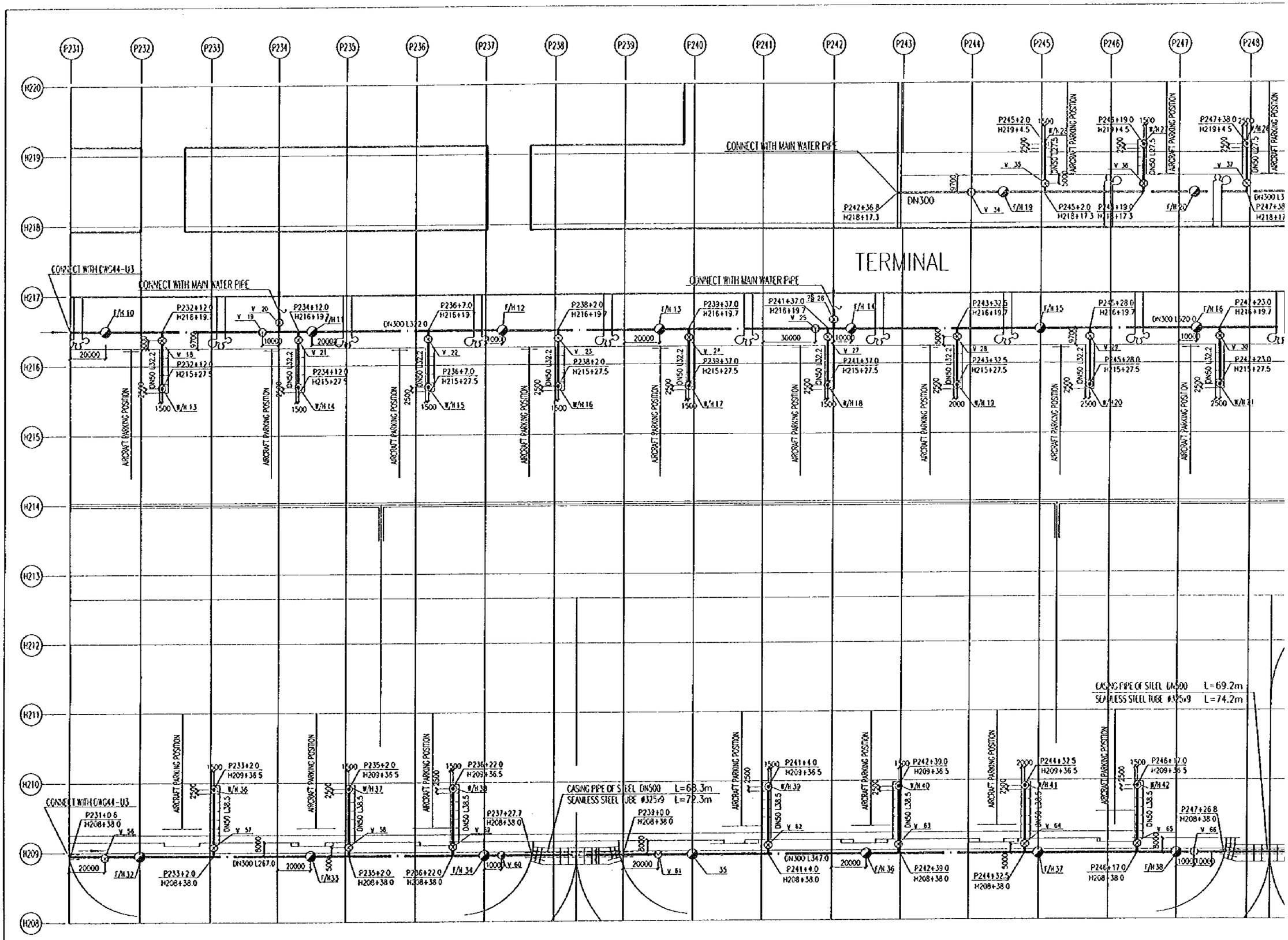
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
AREA SIDE FIRE HYDRANT LAYOUT PLAN (2)	
SCALE	DWG 44-U2
JAPAN INTERNATIONAL COOPERATION AGENCY	

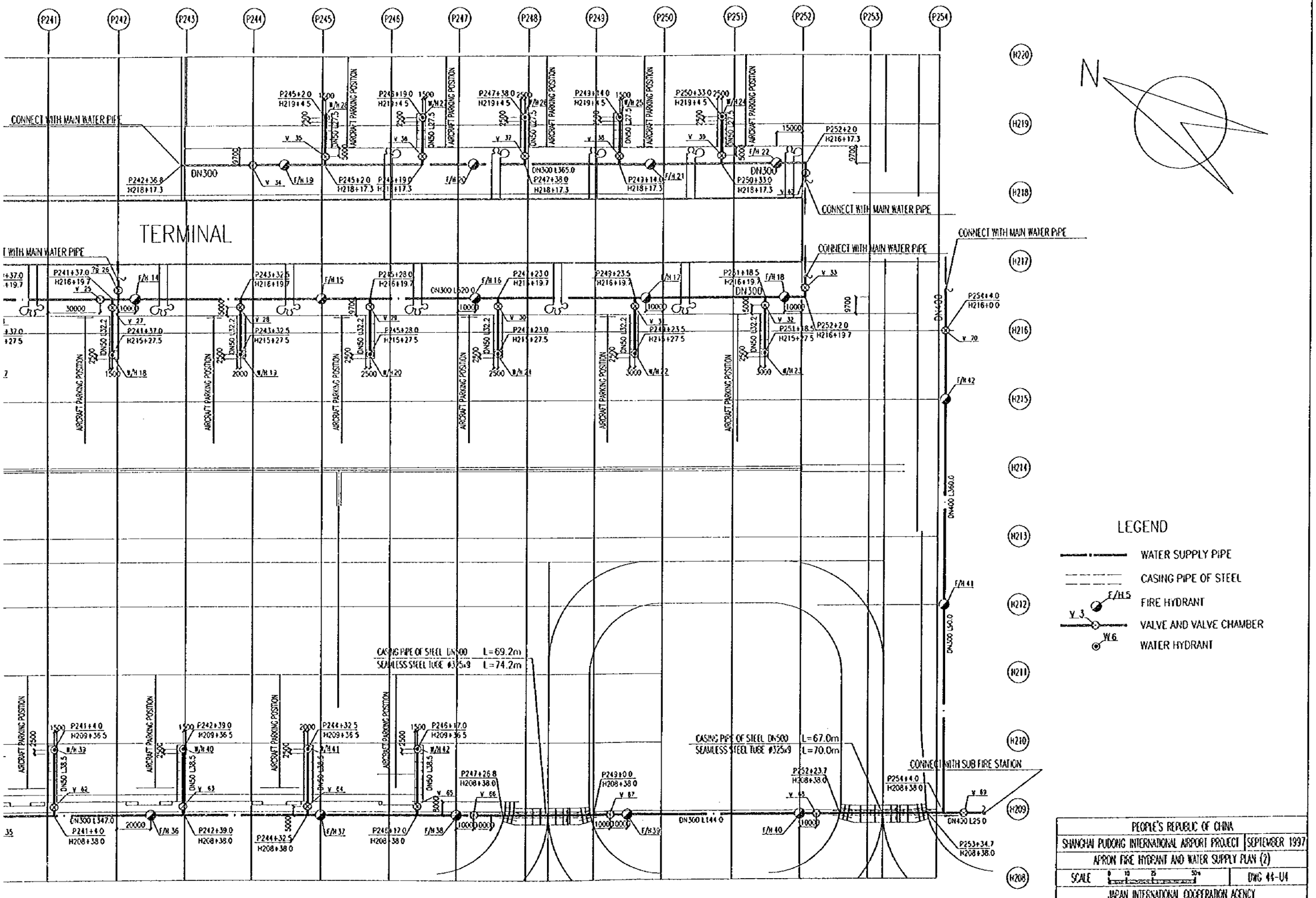


P208
P209
P210
P211
P212
P213
P214
P215
P216
P217
P218
P219
P220
P221
P222
P223
H220
H219
H218
H217
H216
H215
H214
H213
H212
H211
H210
H209
H208
N
TERMINAL
CONNECT WITH MAIN WATER PIPE
AIRCRAFT PARKING POSITION
SEAMLESS STEEL TUBE
CASING PIPE OF STEEL DN500 L=71.9m
SEAMLESS STEEL TUBE ϕ325x9 L=75.9m
ϕ325x9 L74.0
DN400
DN400 L320.0
DN300 L92.0
DN300 L261.0
DN300 L363.0



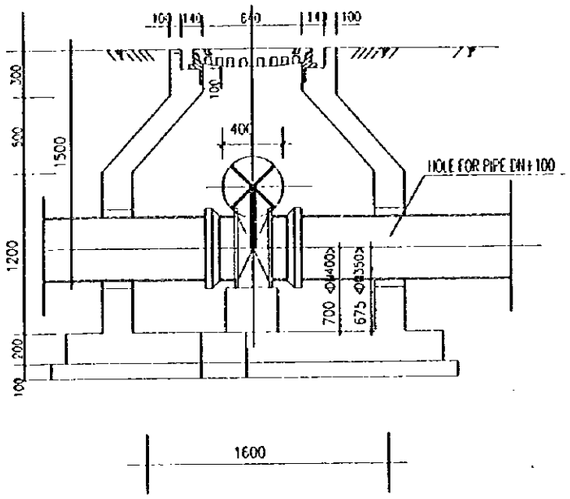
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
APRON FIRE HYDRANT AND WATER SUPPLY PLAN (1)	
SCALE 0 10 15 50m	DWG 44-U3
JAPAN INTERNATIONAL COOPERATION AGENCY	


P231
P232
P233
P234
P235
P236
P237
P238
P239
P240
P241
P242
P243
P244
P245
P246
P247
P248
H220
H219
H218
H217
H216
H215
H214
H213
H212
H211
H210
H209
H208
CONNECT WITH MAIN WATER PIPE
TERMINAL
DN300
CONNECT WITH DWG44-U3
F/H 10
F/H 11
F/H 12
F/H 13
F/H 14
F/H 15
F/H 16
F/H 19
F/H 20
F/H 32
F/H 33
F/H 34
F/H 36
F/H 37
F/H 38
W/H 13
W/H 14
W/H 15
W/H 16
W/H 17
W/H 18
W/H 19
W/H 20
W/H 21
W/H 31
W/H 35
W/H 36
W/H 37
W/H 38
W/H 39
W/H 40
W/H 41
W/H 42
AIRCRAFT PARKING POSITION
DN50 L32.2
DN50 L38.5
DN50 L27.5
DN300 L267.0
DN300 L347.0
CASING PIPE OF STEEL DN500 L=68.3m
SEAMLESS STEEL TUBE Φ325×9 L=72.3m
CASING PIPE OF STEEL DN500 L=69.2m
SEAMLESS STEEL TUBE Φ325×9 L=74.2m

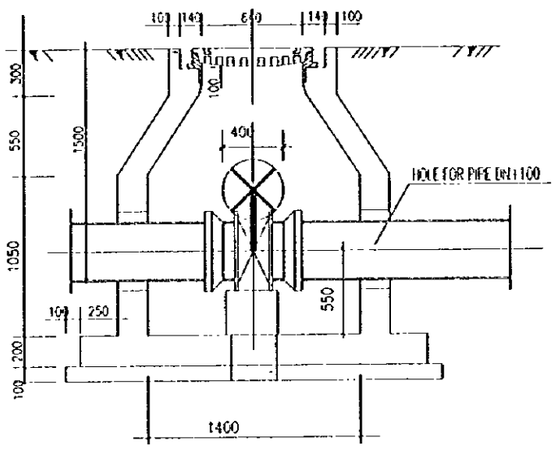


PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
APRON FIRE HYDRANT AND WATER SUPPLY PLAN (2)	
SCALE 0 10 25 50m	DWG 44-U4
JAPAN INTERNATIONAL COOPERATION AGENCY	

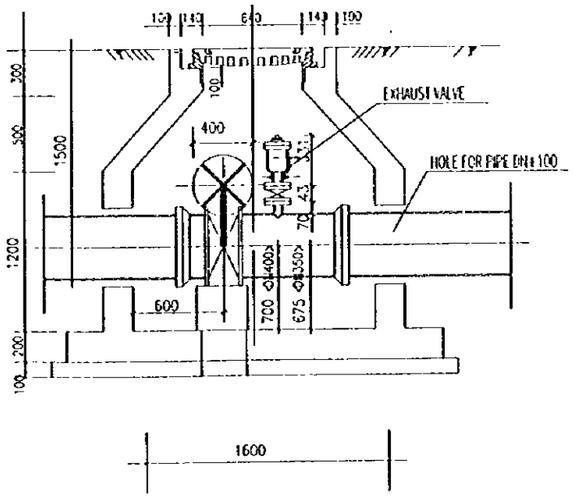
SECTION OF VALVE CHAMBER



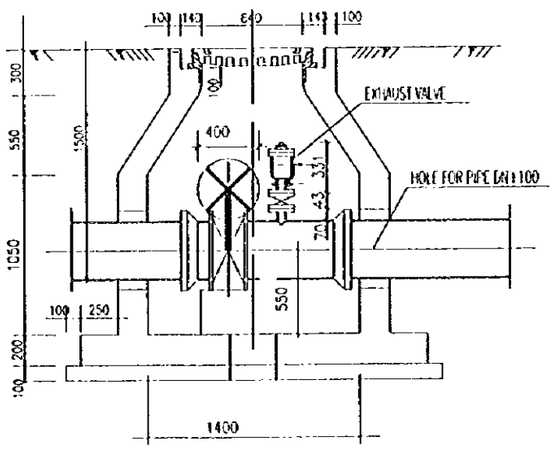
"A" TYPE VALVE CHAMBER



"B" TYPE VALVE CHAMBER

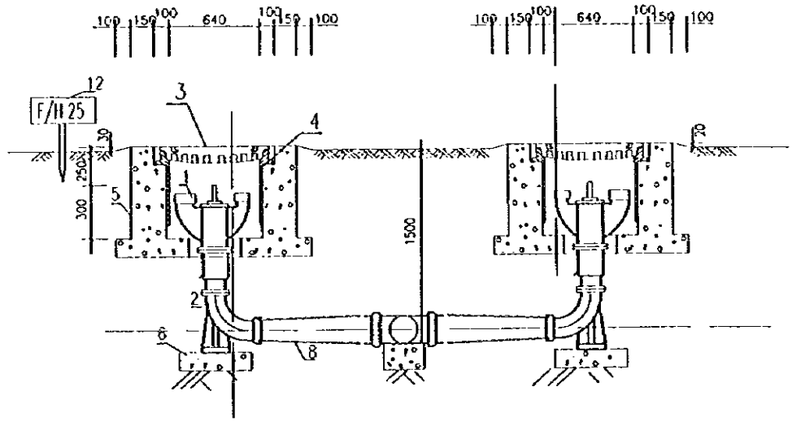


"A" TYPE VALVE CHAMBER (WITH EXHAUST VALVE)

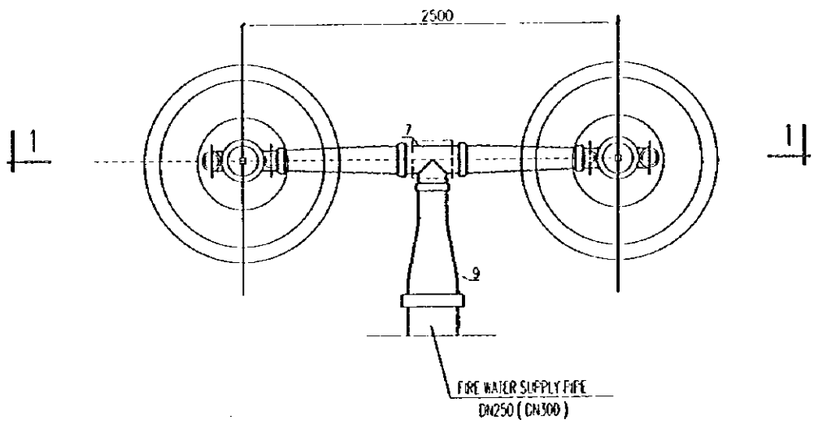


"B" TYPE VALVE CHAMBER (WITH EXHAUST VALVE)

UNDERGROUND FIRE HYDRANT



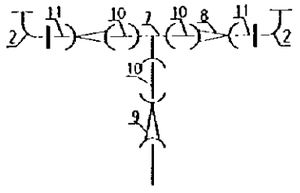
1-1 SECTION 1:20



UNDERGROUND FIRE HYDRANT PLAN

QUANTITIES OF MATERIAL

No	ITEM	TYPE	UNIT	QUANTITY	
1	UNDERGROUD FIRE HYDRANT	SX100×65-1.0	SET	2	
2	BEND	DN100×90°	PEICE	2	
3	BUTT PLATE FOR CHAMBER	ø700	PEICE	2	
4	SEAT FOR CHAMBER	ø700	PEICE	2	
5	CHAMBER	200#	SET	2	
6	SUPPORT	300×300×100	PEICE	2	
7	TEE JOINT	DN150	PEICE	1	
8	BIG/SMALL CONNECTOR	DN150×100	PEICE	2	
9	BIG/SMALL CONNECTOR	DN250×150	PEICE	1	
10	SHORT PIPE	DN150	PEICE	3	
11	FLANGE/JACK	DN100	PEICE	2	
12	FIRE HYDRANT MARK	400×200×20	PEICE	1	



DETAIL OF JOINT

PEOPLE'S REPUBLIC OF CHINA

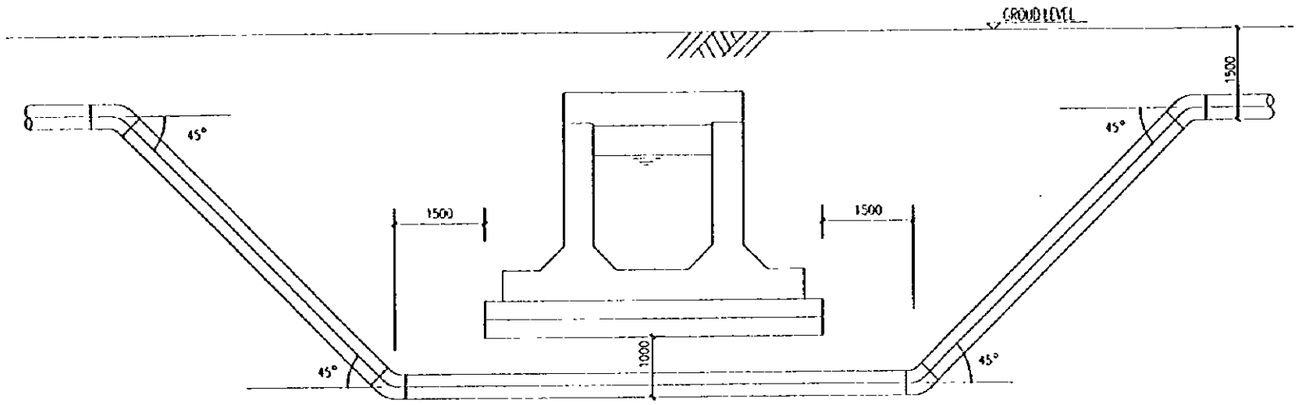
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997

DETAILS FIRE HYDRANT (I)

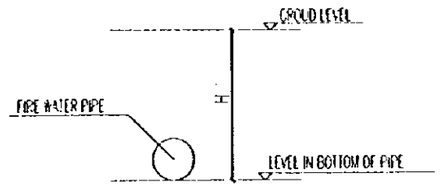
SCALE | DWG 44-05

JAPAN INTERNATIONAL COOPERATION AGENCY

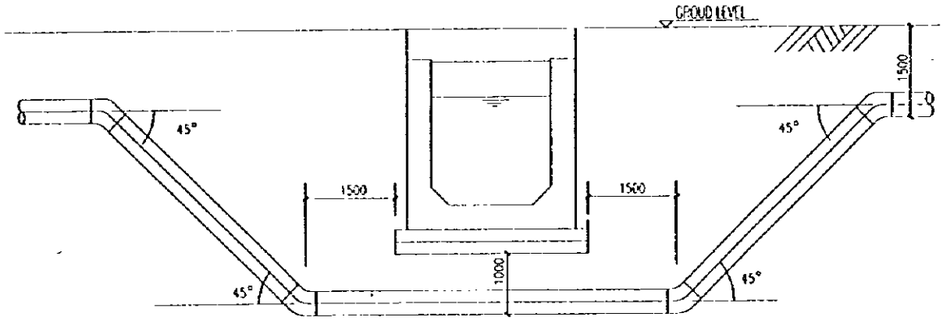
DETAIL 1 TO DETAIL 4



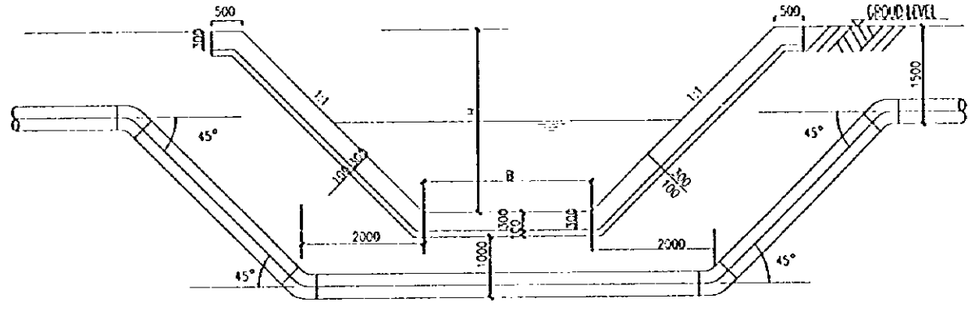
DETAIL 1 (FOR "C" TYPE)



DETAIL 4

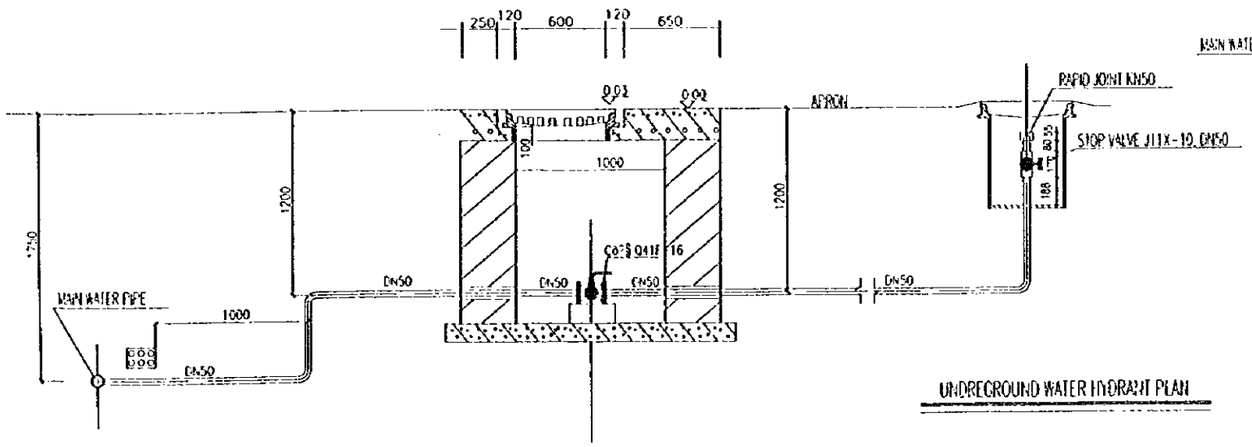


DETAIL 2 (FOR "B" TYPE)

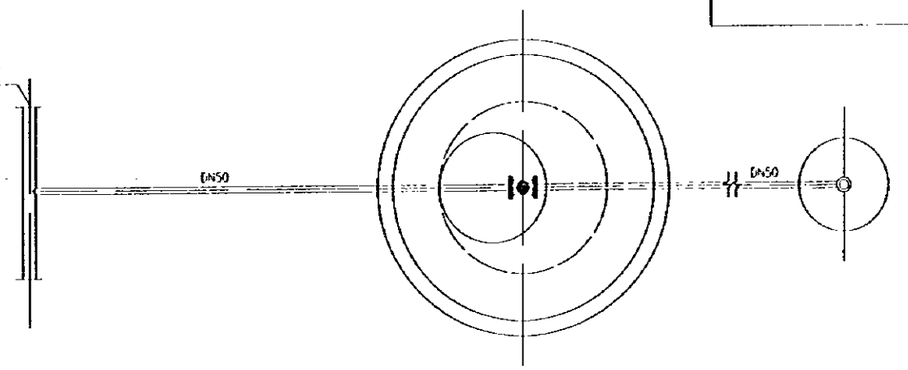


DETAIL 3 (FOR "A" TYPE)

DETAIL 5 (ON APRON)



UNDREGROUND WATER HYDRANT PLAN



PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
DETAILS FIRE HYDRANT (2)	
SCALE 0 2 5 15m	DWG 44-06
JAPAN INTERNATIONAL COOPERATION AGENCY	

JICA