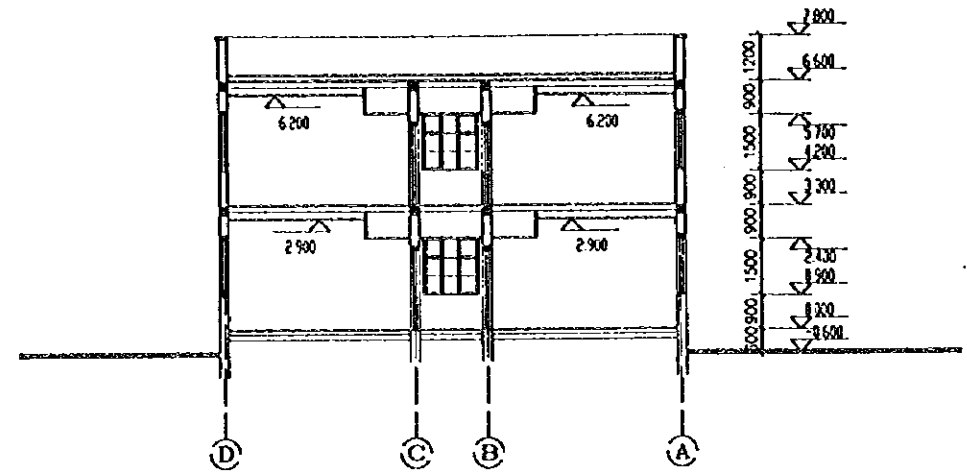
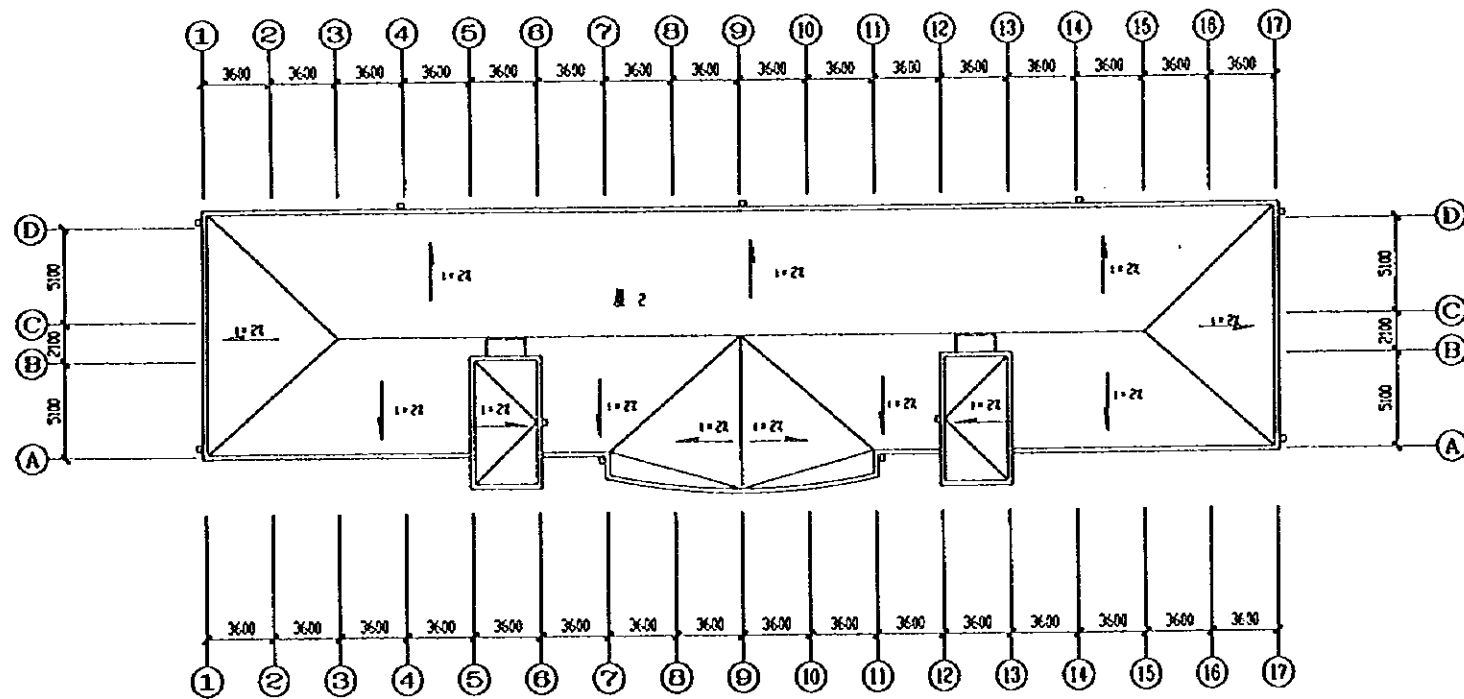


D — A ELEVATION 1:100

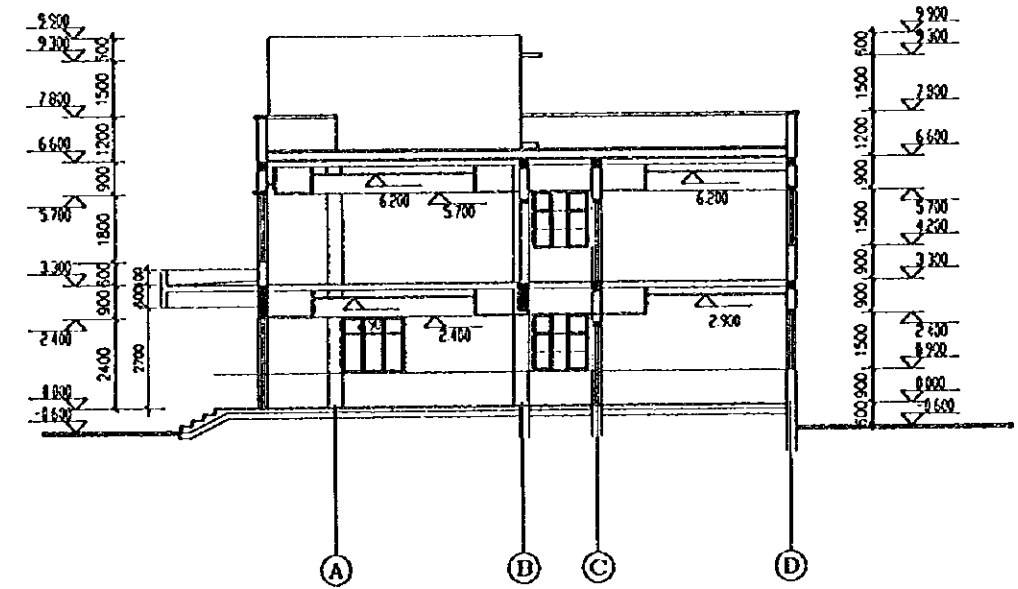
A — D ELEVATION 1:100



B - B SECTION 1:100



ROOF PLAN 1:200



A - A SECTION 1:100

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
OFFICE BUILDING (FUEL SUPPLY DEPOT)	
ROOF PLAN, ELEVATIONS AND SECTIONS	
SCALE	DWG3-A08A(S/6)
JAPAN INTERNATIONAL COOPERATION AGENCY	

No.	Topping	Construction
Ceiling 2	Gypsum Board Ceiling	<ol style="list-style-type: none"> 1. Paint ceiling coating; 2. Full clearcoat making & levelling; 3. Brush damp-proof coating (one coat of emulsified oil); 4. 9 thick paper-faced gypsum board, to be fixed by self-attached bolt (900x300x9, 1200x300x9); 5. Small metal lath concave 27x60x0.63, spacing as board width; 6. Medium-sized metal lath concave 27x60x0.63, spacing as 1/6 board length; 7. Big metal lath concave 27x60x0.63 (hanging point), spacing < 1200; 8. 8 hanger steel bar, two-way arrangement, spacing 900--1200 9. Built-in 6 iron ring in R.C.slab, two-way arrangement, spacing 900-1200.
Roof 1	Cement brick (accessible)	<ol style="list-style-type: none"> 1. 30 thick cement brick topping, dry cement pointing, 10 wide joint to be provided at every 3mx6m, filling 1:3 lime mortar; 2. Spread plain cement (with appropriate water); 3. 25 thick 107 cement mortar binder course (proportion ratio: 1:3 cement mortar mixing 107 glue with 15% of cement); 4. Two-cloth-three-asphalt PVC grease 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.
Roof 2	cement profiled brick (inaccessible)	<ol style="list-style-type: none"> 1. Pave one layer of binded peastone of in portical size; 2. Spread plain cement (with appropriate water); 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.
Exterior Wall 1	Facing tile	<ol style="list-style-type: none"> 1. 1:1 cement mortar (fine sand) pointing; 2. Paste 10 thick facing tile (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;

No.	Topping	Construction
GROUND 1	Granite	<ol style="list-style-type: none"> 1. 20 thick granite pavement, wet 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 binder course; 5. 70 thick C15 concrete; 6. 150 thick pebble, grouting M2.5 mixed mortar; 7. Soil tamping.
GROUND 2	Floor Tile	<ol style="list-style-type: none"> 1. 10 thick floor tile 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 binder course; 5. 50 thick C10 concrete; 6. 100 thick 3:7 lime soil; 7. Soil tamping.
GROUND 3	Floor Tile (with water-proof layer)	<ol style="list-style-type: none"> 1. 10 thick floor tile 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 binder course; 5. 60 thick (highest point) 1:2.4 fine stone concrete flashing from door to drain, lowest point of not less than 30 in thickness; 6. One-feit-two-asphalt water-proof layer, rolling up to 150 high all around, pasting coarse sand outside; 7. 100 thick 3:7 lime soil; 8. Soil tamping.
Floor 1	Floor Tile	<ol style="list-style-type: none"> 1. 10 thick floor brick pavement, dry cement pointing; 2. Spread plain cement (with appropriate water); 3. 25 thick 1:4 hard cement mortar binder course; 4. R.C.slab.
Floor 2	Floor tile (with water-proof layer)	<ol style="list-style-type: none"> 1. 10 thick floor brick pavement, dry cement pointing; 2. Spread plain cement (with appropriate water); 3. 20 thick 1:4 hard cement mortar binder course; 4. One coat of plain wet cement; 5. 40 thick (highest point) 1:2.4 fine stone concrete flashing from door to drain, lowest point: not less than 30 thick. 6. Emulsified rubber asphalt water-proof coating, one-cloth-four-coating (non-woven cloth) water-proof layer, rolling up to

No.	Topping	Construction
	Floor tile (with water-proof layer)	<ol style="list-style-type: none"> 150 high all around, pasting coarse sand, 300 wide pavement at entrance; 20 thick 1:3 cement mortar levelling course; ; One coat of plain wet cement; R.C.slab.
Interior Wall 1	Coating	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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.
Skirt 1	Facing Brick	<ol style="list-style-type: none"> 1. Paste 5 thick glazed brick skirt; 2. 12 thick 1:2 cement mortar priming, deburring or scratching; 3. Brush one coat of 107 glue solution: proportion ratio between 107 glue and water: 1:4.
Dado 1	Wooden Dado	<ol style="list-style-type: none"> 1. Varnish polishing (High-grade construction); 2. 5 thick plywood topping (fixing); 3. 24x30 wooden lath, two-way spacing 600 (wood to be coated with sodium fluoride corrosion agent); 4. Pave one coat of asphalt felt; 5. Brush one coat of flexible asphalt; 6. Built-in wooden brick in wall (one every 1000 along wooden lath)
Ceiling 1	Coating	<ol style="list-style-type: none"> 1. Paint ceiling 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%).

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
OFFICE BUILDING (FUEL SUPPLY DEPOT)	
FINISH TECHNICAL SPECIFICATIONS	
SCALE	MON SCALE DWG3-A08A(6/6)
JAPAN INTERNATIONAL COOPERATION AGENCY	

DESIGN INTRODUCTION

I. Design basis

1. Preliminary design documents and drawings of each speciality approved;
2. Working condition drawings provided by architecture, water supply & drainage, HVAC, electrical speciality, and process working condition drawings provided by other speciality;
3. This project is designed based on 7 seismic intensity;
4. << Shanghai Pudong Airport Oil Depot Rock & Soil Investigation Immediate Report >> made by China Aviation Industry Investigation & Design Institute;
5. Design codes: Current national architecture & structure standards and codes; Shanghai City's << Base Foundation Design Codes >> Shanghai City's << Base Treatment Technical Codes >> Shanghai City's << Building Aseismic Design Codes >>

II. Structure type: brick & concrete structure

III. Foundation type: R.C. strip foundation

IV. Base

1. According to << Immediate Report >>, site base has 3 layers, referring the Table below:

Name of Soil Layer	No of Soil Layer	Status Soil Layer	Compactibility Soil Layer	Layer Elevation Average Soil Layer	Thickness	Calculation Strength
Soil	1	loose		2.87 3.87 3.63	0.46	
Brown-yellow powder clay	2-1	plastic	medium	2.95 3.42 3.25	0.66	125 KPa
Grey-yellow powder clay	2-2	soft-flowing plastic	medium high	2.39 3.67 2.70	1.87	90 KPa
Grey clay powder soil	2-3	much denser	medium	0.52 1.17 0.82	2.88	150 KPa
Grey clay powder soil	2-3	flowing plastic	high	-2.38 -1.83 -2.06	1.81	75 KPa
Grey clay powder soil	2-3	medium denser	medium	-4.68 -3.53 -3.88	2.55	160 KPa
Grey silt clay	4	flowing plastic	high	-6.68 -6.29 -6.42		60 KPa

2. This project adopts shallow-burying foundation with 2-2 layer of brown-yellow powder clay as load-bearing layer of allowable bearing capacity of $f=90\text{KPa}$.
3. Site treatment: In order to prevent the uneven settlement of building, resulting in the cracking and damage of building, underground water drainage, sill removing, refilling must be done. During refilling, clay or sand soil shall be used, and tamped by layer with compacting parameter of 0.9. The base soil after treatment shall reach allowable bearing capacity 90KPa of 2-2-layer soil.
4. After the excavation of base trench, the next process can be started only after the inspection and approval of investigation company and construction technicians.

V. Materials

1. The cast-in-situ concrete foundation shall use C20, except otherwise noted in the drawing. C25 shall be used. C10 plain concrete shall be used for foundation bedcourse.
2. Steel grade I (), grade II (), steel plate A3, welding rod E4303
3. Common clay brick MU10 for brick masonry, M5 cement mortar for below indoor ground, others to be built with M5 mixed mortar.

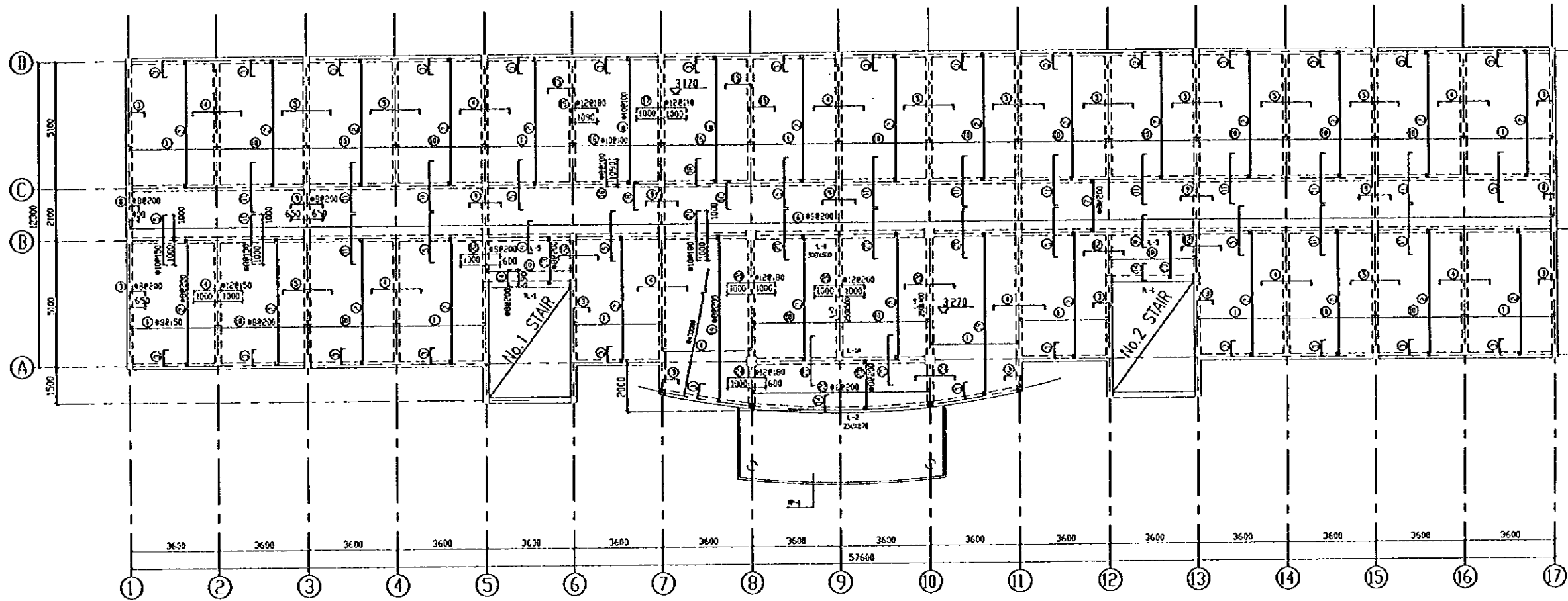
VI. Structure Introduction and Construction Methods

1. The aseismic structure not noted in this introduction and drawing shall be constructed as National Standards CGJ29.
2. The position of structural column between windows and column details refer to Architecture Construction Drawing.
3. Wall & column connection: Tensile steel bar 2×6 (1000 outside column, 200 in column) shall be connected to wall according to the wall positions noted in Architecture Drawing (including parapet) and in the corresponding parts of column (or structural column) along a fixed height and at every 500.
4. 20 thick damp-proof layer made by 1:2 cement mortar plus 5% water-proof powder shall be provided at an elevation of -0.06 along all exterior wall and interior brick wall.
5. Frame in-filling wall shall adopt light aggregate concrete porous hollow brick wall with exterior wall 240mm (1.97kN/M²), interior wall 200mm (1.64kN/M²). Except observing local construction regulations, concrete coping shall be used for window coping, 240x60mm, 3x8, 6x200, the reinforcing steel shall be grouted together with column when encountering column.
6. Concrete protection layer of load-bearing members' main bar: beam & column below ± 0.00 : J5; above ± 0.00 : J5; board 15.
7. Close coordination between each speciality shall be maintained during construction.

VII. General Introduction

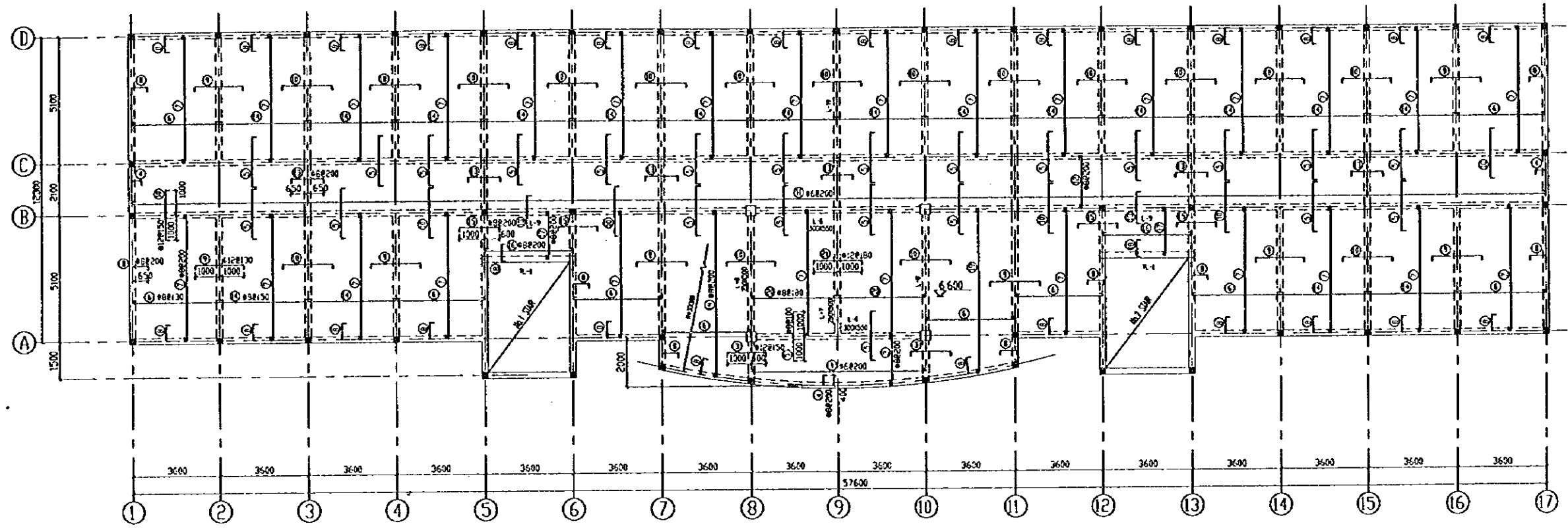
1. Except otherwise noted, all dimensions shall be: elevation -- m, others--mm in unit.
2. The absolute elevation of each part of this project ± 0.000 is 4.900m, referring to general drawing.
3. Except otherwise noted in the drawing, construction shall be done based on this introduction.
4. Standard drawings adopted by this project:
National Standards: Building Aseismic Structure Details: CGJ29(1)(2)

PEOPLE'S REPUBLIC OF CHINA		
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT		SEPTEMBER 1997
OFFICE BUILDING (FUEL SUPPLY DEPOT)		
DESIGN INTRODUCTION		
SCALE	NONE	DWGJ-A088(1/4)
JAPAN INTERNATIONAL COOPERATION AGENCY		



2nd REINFORCEMENT DETAILS 1:100
 SLAB THICKNESS h=100mm

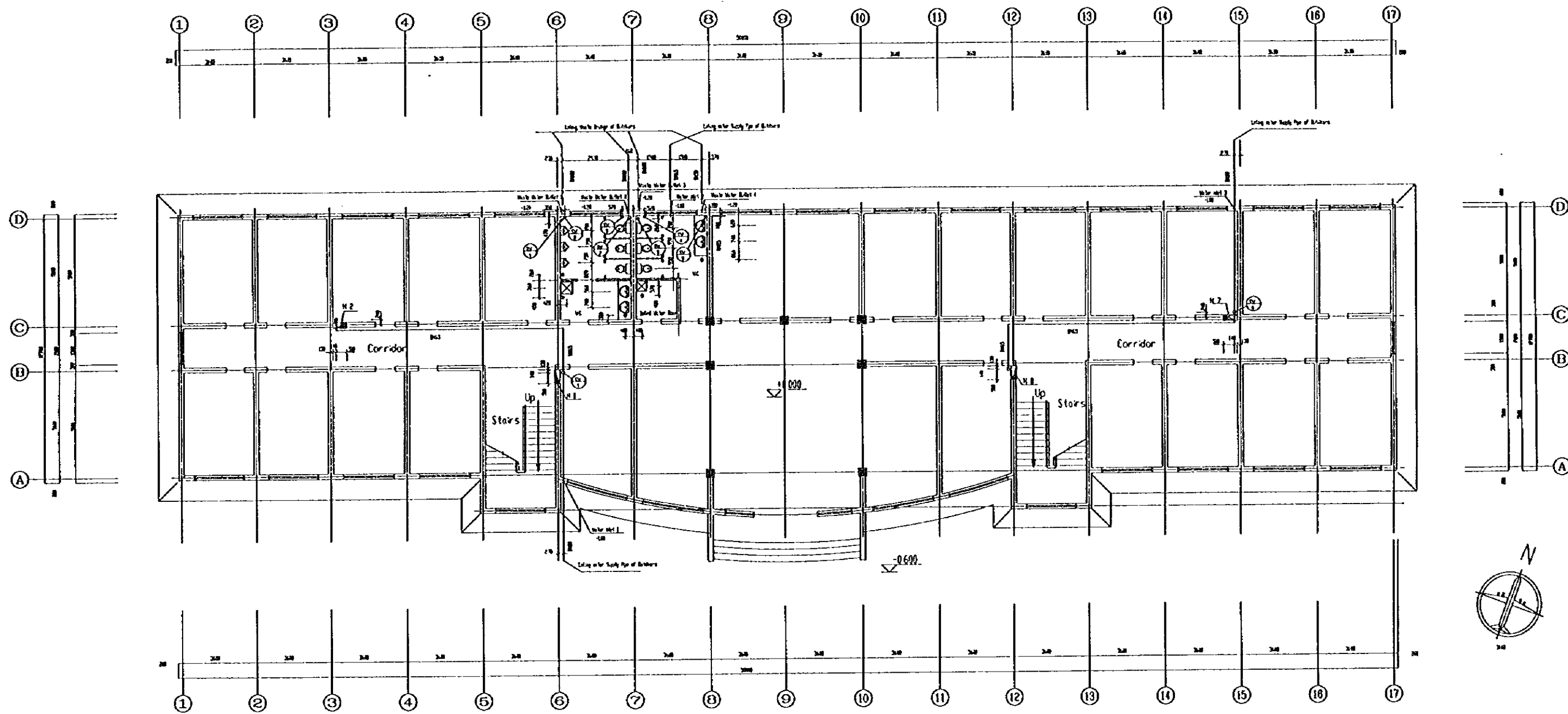
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
OFFICE BUILDING (FUEL SUPPLY DEPOT)	
2nd REINFORCEMENT DETAILS	
SCALE	1:100
DWG3-A088(1/4)	
JAPAN INTERNATIONAL COOPERATION AGENCY	



ROOF REINFORCEMENT DETAILS 1:100

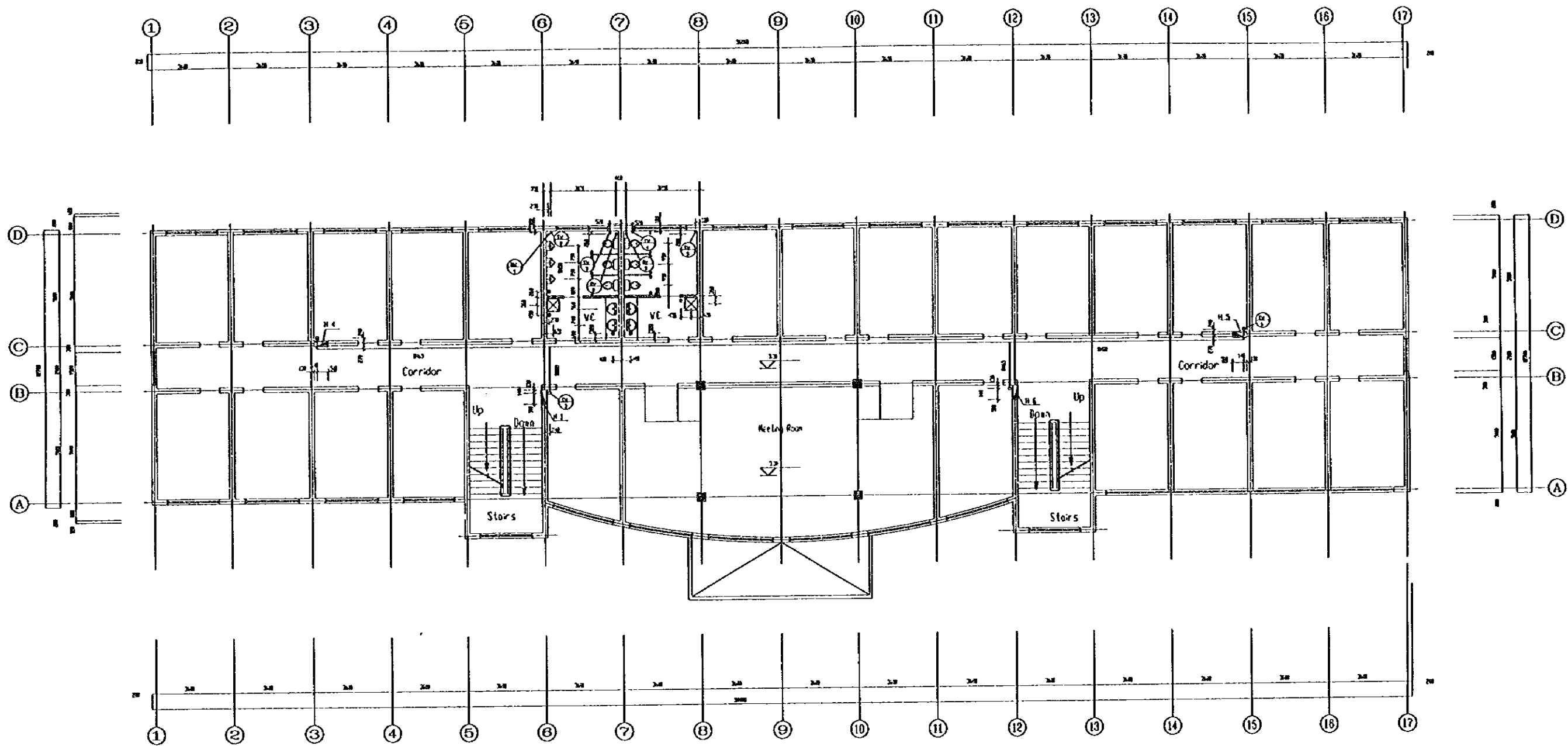
SLAB THICKNESS h=100mm

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
OFFICE BUILDING (FUEL SUPPLY DEPOT)	
ROOF REINFORCEMENT DETAILS	
SCALE	1:100
DWG3-A088(1/4)	
JAPAN INTERNATIONAL COOPERATION AGENCY	



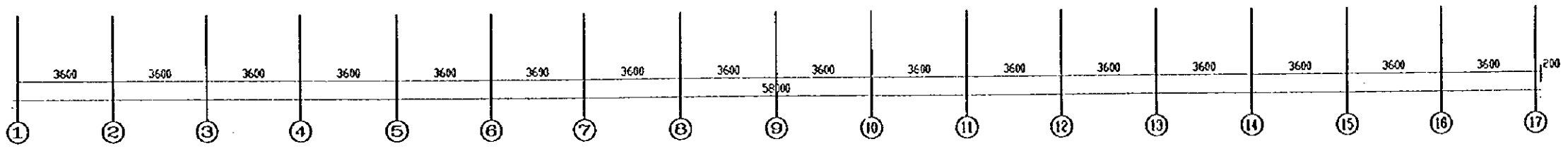
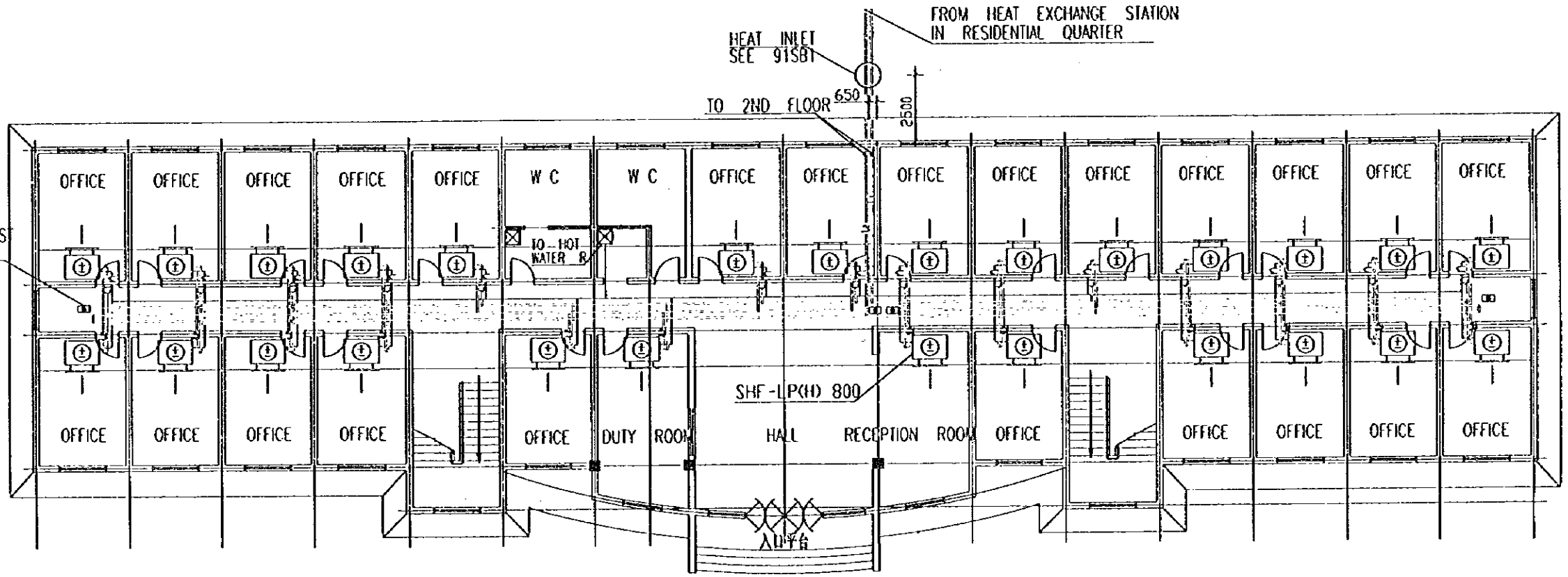
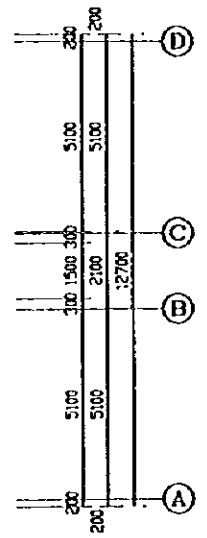
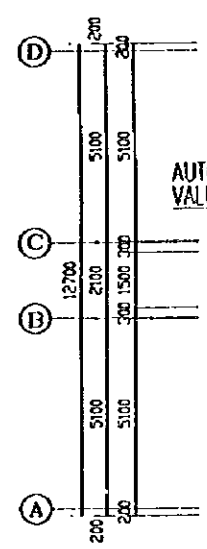
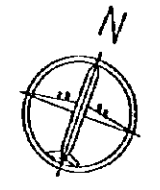
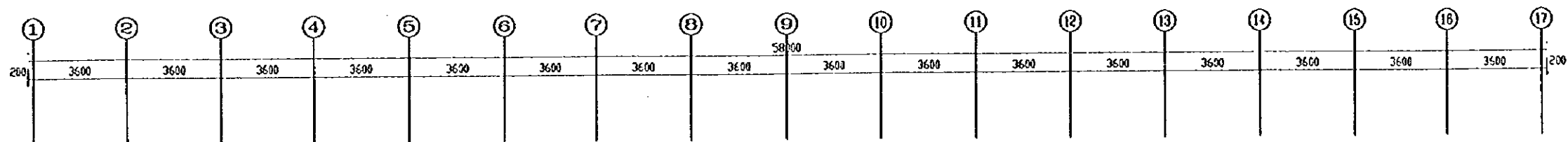
1st FLOOR PLAN

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
OFFICE BUILDING (FUEL SUPPLY DEPT)	
1st FLOOR PLAN, WATER SUPPLY AND DRAINAGE AND FIRE FIGHTING SYSTEM	
SCALE	DWG-AD8C(1/2)
JAPAN INTERNATIONAL COOPERATION AGENCY	



2nd FLOOR PLAN

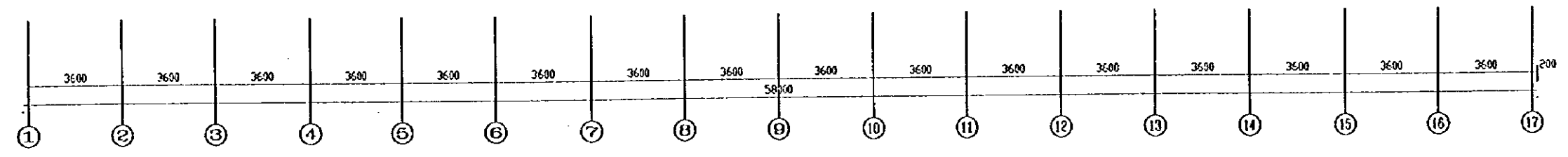
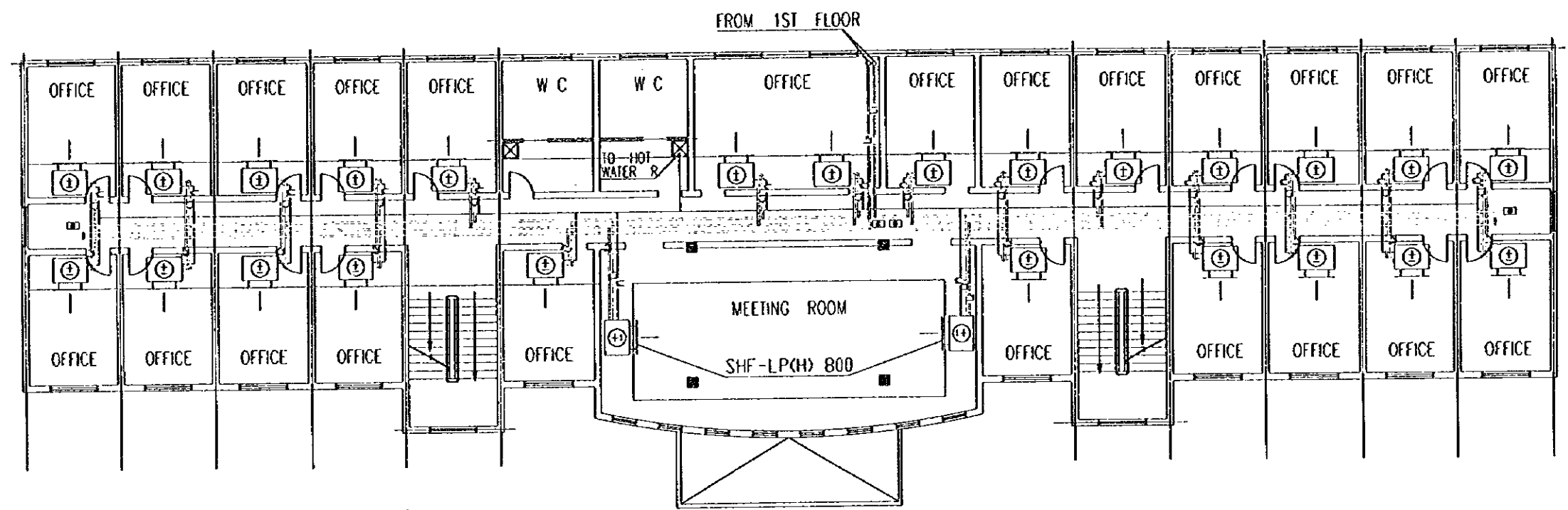
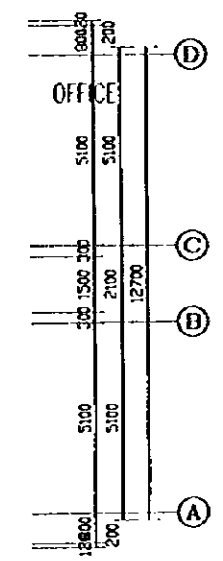
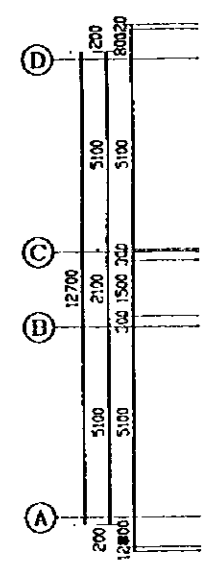
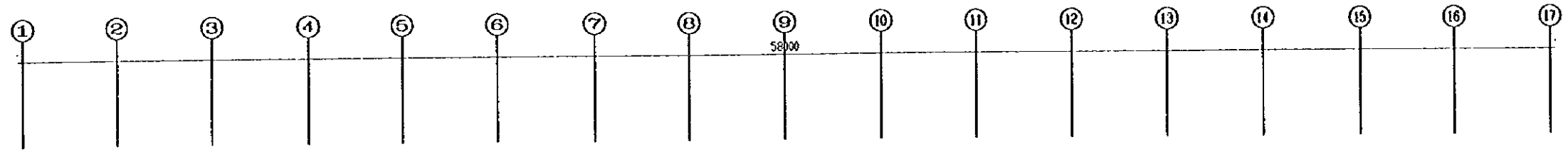
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
OFFICE BUILDING (FUEL SUPPLY DEPOT)	
2ND FLOOR PLAN, WATER SUPPLY AND DRAINAGE AND FIRE FIGHTING SYSTEM	
SCALE	1:500
JAPAN INTERNATIONAL COOPERATION AGENCY	



1st FLOOR PLAN

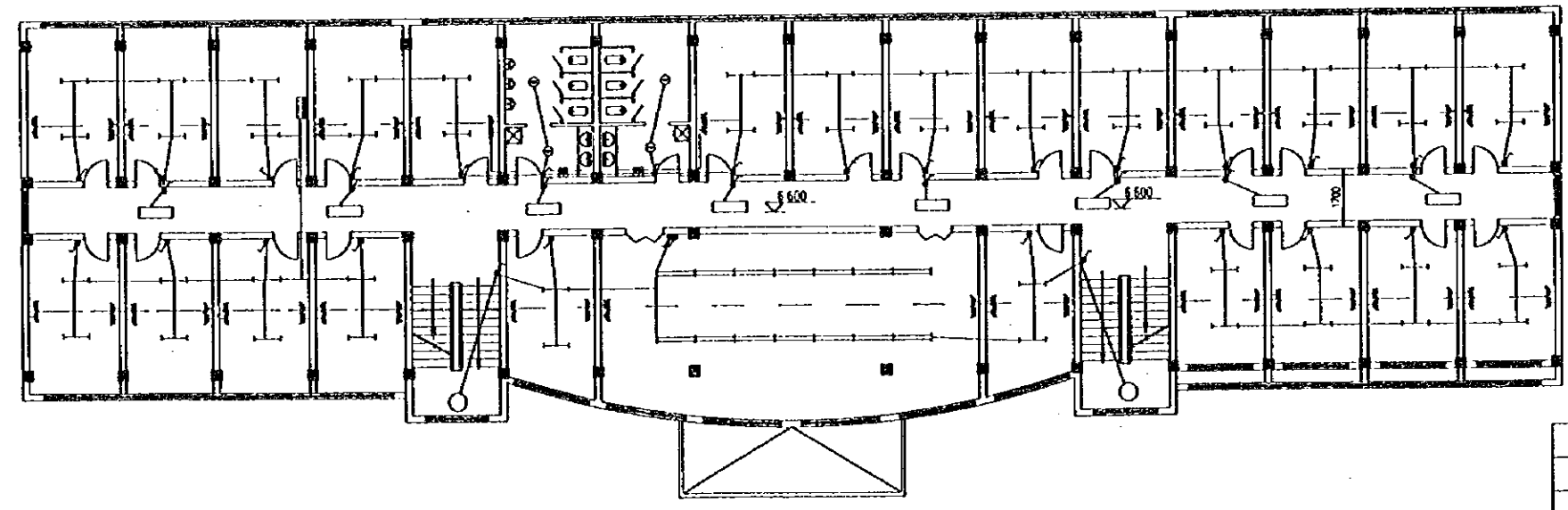
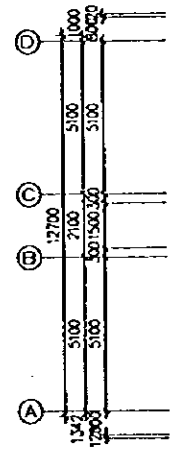
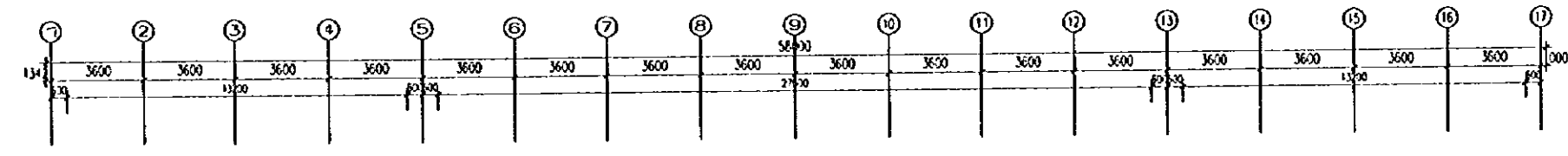
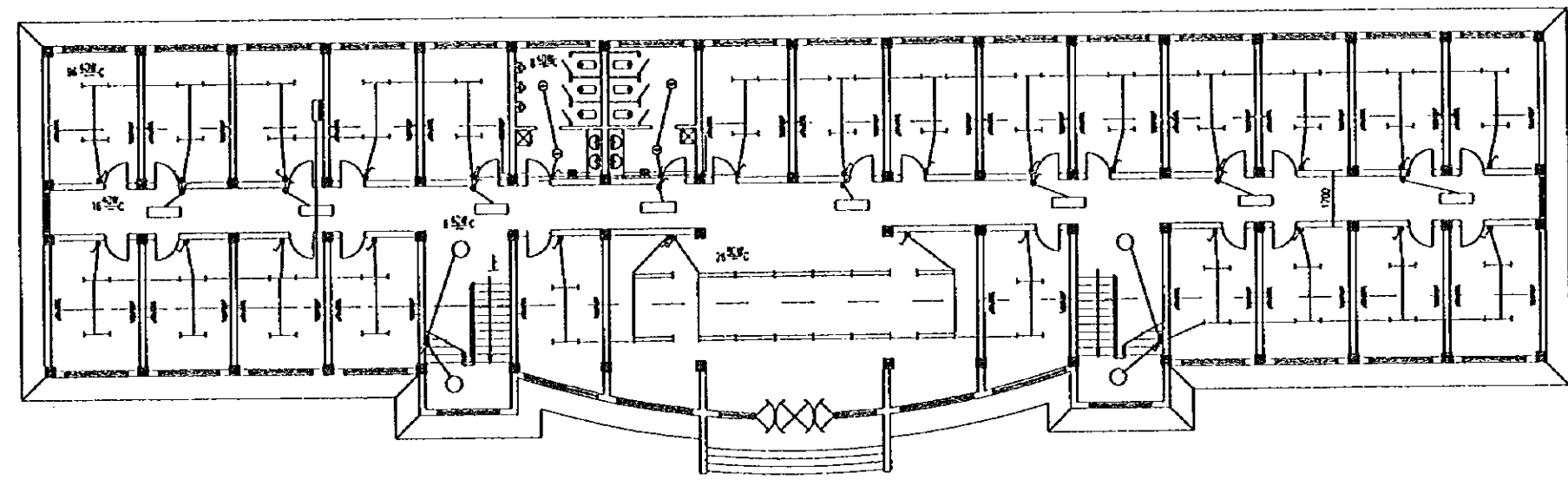
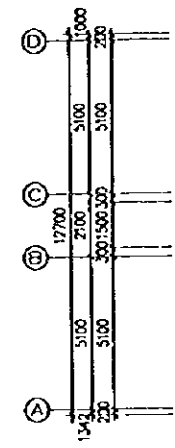
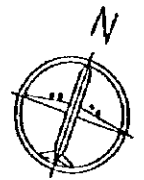
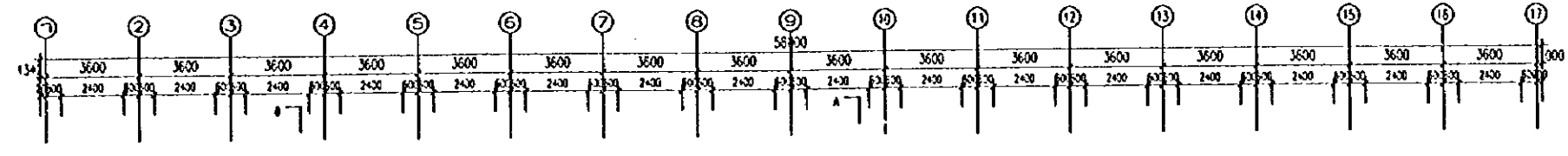
- NOTE :
- 1.THE AC SYSTEM'S COOLING MEDIUM AND HEATING MEDIUM ARE SUPPLIED BY HEAT EXCHANGE STATION IN RESIDENTIAL QUARTER.
 - 2.THE TYPE OF FAN COIL PIPE NOT NOTED IN THE DRAWING IS SHF-LP-400 TYPE 52 SETS IN TOTAL .

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
OFFICE BUILDING (FUEL SUPPLY DEPOT)	
1st FLOOR PLAN , AIR-CONDITIONING SYSTEM	
SCALE 1:200	DWG3-A080(1/2)
JAPAN INTERNATIONAL COOPERATION AGENCY	



2nd FLOOR PLAN

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
OFFICE BUILDING (FUEL SUPPLY DEPOT)	
2nd FLOOR PLAN, AIR-CONDITIONING SYSTEM	
SCALE	1:200
DKG3-A080(2/2)	
JAPAN INTERNATIONAL COOPERATION AGENCY	



PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT SEPTEMBER 1997	
MAIN OFFICE BUILDING (FUEL SUPPLY DEPOT)	
LIGHTING LAYOUT FOR FLOOR OF COMPREHENSIVE BUILDING	
SCALE: NONE	DWGJ-AD8E
JAPAN INTERNATIONAL COOPERATION AGENCY	

Building Material Construction Table

No.	Topping	Construction
Floor 1	Concrete	<ol style="list-style-type: none"> 220 thick C25 concrete topping, two-way reinforcement 10x250 (separate vibrating, tamping, as plastering as , individual tamping, vibrating, as tamping as levelling, each piece: not more than 6mx6m asphalt treatment, embedding pine batten); Plastic film damp-proof layer; 20 thick 1:3 cement mortar levelling course; One coat of plain wet cement; 200 thick C15 concrete; Soil rolling & tamping, compactivity: > 98%(sampling).
Floor 2	Cement	<ol style="list-style-type: none"> 20 thick 1:2.5 cement mortar mopping, tamping & polishing; One coat of plain wet cement binder course; 70 thick C15 concrete; 150 thick pebble, grouting M2.5 mixed mortar; Soil tamping
Floor 3	Floor brick (with water-proof layer)	<ol style="list-style-type: none"> 10 thick floor brick pavement, dry cement pointing; Spread plain cement (with appropriate water); 30 thick 1:4 hard cement mortar binder course; One coat of plain wet cement binder course; 60 thick (highest point) 1:2.4 fine stone concrete flashing from door to drain, lowest point of not less 1 One-feit-two-asphalt water-proof layer, rolling up to 150 high all around, pasting coarse sand outside; 40 thick 1:2.4 fine stone concrete plastering as leveling, brushing one coat of varnish coating; 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 & polishing; 150 thick pebble, grouting M2.5 mixed mortar; Soil tamping, 4% pitch to outside.
Interior Wall 1	Coating	<ol style="list-style-type: none"> Point interior wall coating; 2 thick grummet finish coat; 8 thick 1:3 fine putty mortar; 13 thick 1:3 cement mortar priming, deburring or scratching.
Interior Wall 2	Facing Brick: 3300 high	<ol style="list-style-type: none"> White cement pointing;

No.	Topping	Construction
		<ol style="list-style-type: none"> 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.
Skirt 1	Cement: 120 high	<ol style="list-style-type: none"> 6 thick 1:2.5 cement mortar finish coat, tamping & polishing; 6 thick 1:3 cement mortar priming, deburring or scratching.
Ceiling 1	Coating	<ol style="list-style-type: none"> Point 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%).
Ceiling 2	Gypsum Board Ceiling	<ol style="list-style-type: none"> Point white scrubbing-resisting coating; Full claircolle making & levelling; Brush one coat of emulsified oil; Double-layer 900x3000x9 paper-faced gypsum board, to be fixed by self-attached bolt; Stull metal lath concave 27x60x0.63, spacing as board width; Medium-sized metal lath concave 27x60x0.63, spacing as 1/6 board length; Big metal lath concave 27x60x0.63 (hangering) spacing <= 1200; 8 hanger bar, two-way hangering, spacing 900--1200; R.C.slab's built-in 6 iron ring, two-way hangering, spacing 900--1200.
Roof 2	Small Stone Protection Layer (without persons)	<ol style="list-style-type: none"> Pave one layer of binded peastone of 3-6 in portical size; Ternary ethylene-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, 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); 20 thick 1:3 cement mortar levelling course; R.C.slab.

BUILDING MATERIAL CONSTRUCTION TABLE(2)

No.	Topping	Construction
Exterior Wall 1	Facing Brick	
		1. 1:1 cement mortar (fine sand) pointing;
		2. Poste 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 priming).
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	Point (natural wood color)	
		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 2		1. Two coats of dark-green mixed point;
		2. Claircolle making;
		3. One coat of antirusting point.
Painting 3		1. Two coats of antirusting point.

DOOR & WINDOW TABLE

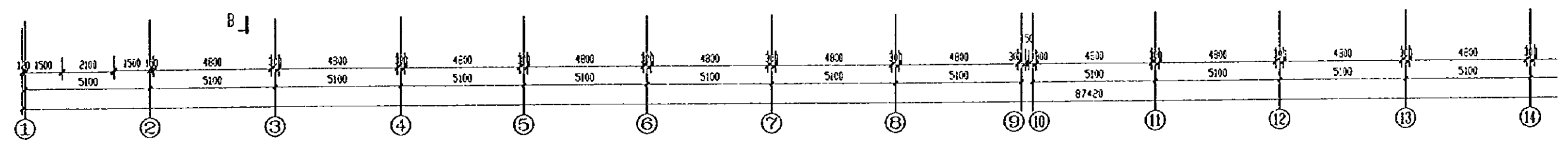
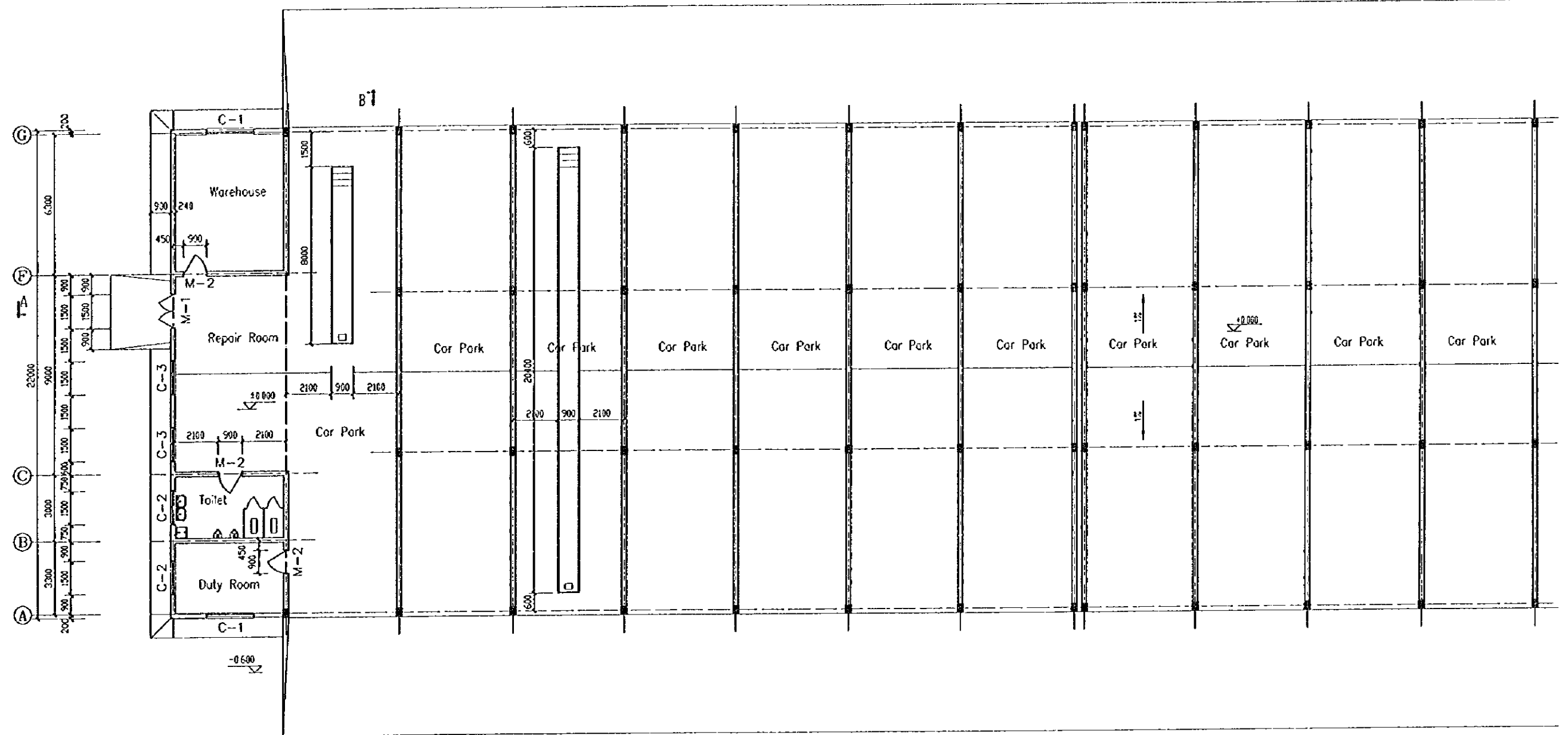
Name	Type	Opening Size	Standard Dwg.	Number	Remark
C1	aluminum alloy sliding window	2100x1800	# 91J604-TC2118	2	white,with screening
C2	aluminum alloy sliding window	1500x1500	# 91J604-TC1515	2	white,with screening
C3	aluminum alloy sliding window	1500x1800	# 91J604-TC1518	2	white,with screening
M1	wooden door	1500x2700	J652 M22-1527	1	
M2	wooden door	900x2700	J642 M22-0927	3	

BUILDING CONSTRUCTION TABLE

Name	Floor		Interior Wall		Skirt&Dado		Ceiling		Roof of Room
	Topping	Construction	Topping	Construction	Topping	Construction	Topping	Construction	Construction
Car Park	Concrete	Floor 1	Coating	Interior Wall 1	Cement	Skirt 1	Coating	Ceiling 1	Roof 1
Warehouse	Cement	Floor 2	Coating	Interior Wall 1	Cement	Skirt 1	Coating	Ceiling 1	Roof 1
Repair Room	Cement	Floor 2	Coating	Interior Wall 1	Cement	Skirt 1	Coating	Ceiling 1	Roof 1
Toilet	Facing brick	Floor 3	Facing brick	Interior Wall 2			Gypsum board	Ceiling 2	Roof 1

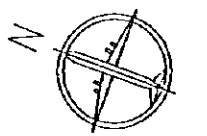
PEOPLE'S REPUBLIC OF CHINA		
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997	
REFUELER AND SERVICE PARKING BUILDING		
BUILDING MATERIAL CONSTRUCTION TABLE (2), BUILDING CONSTRUCTION TABLE AND DOOR & WINDOW TABLE		
SCALE	NON SCALE	CWG3-AD9(2/4)
JAPAN INTERNATIONAL COOPERATION AGENCY		

-0.150

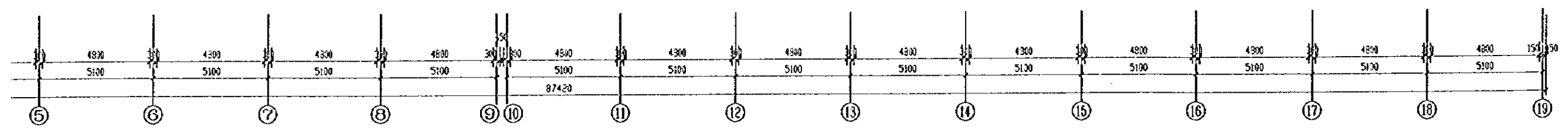
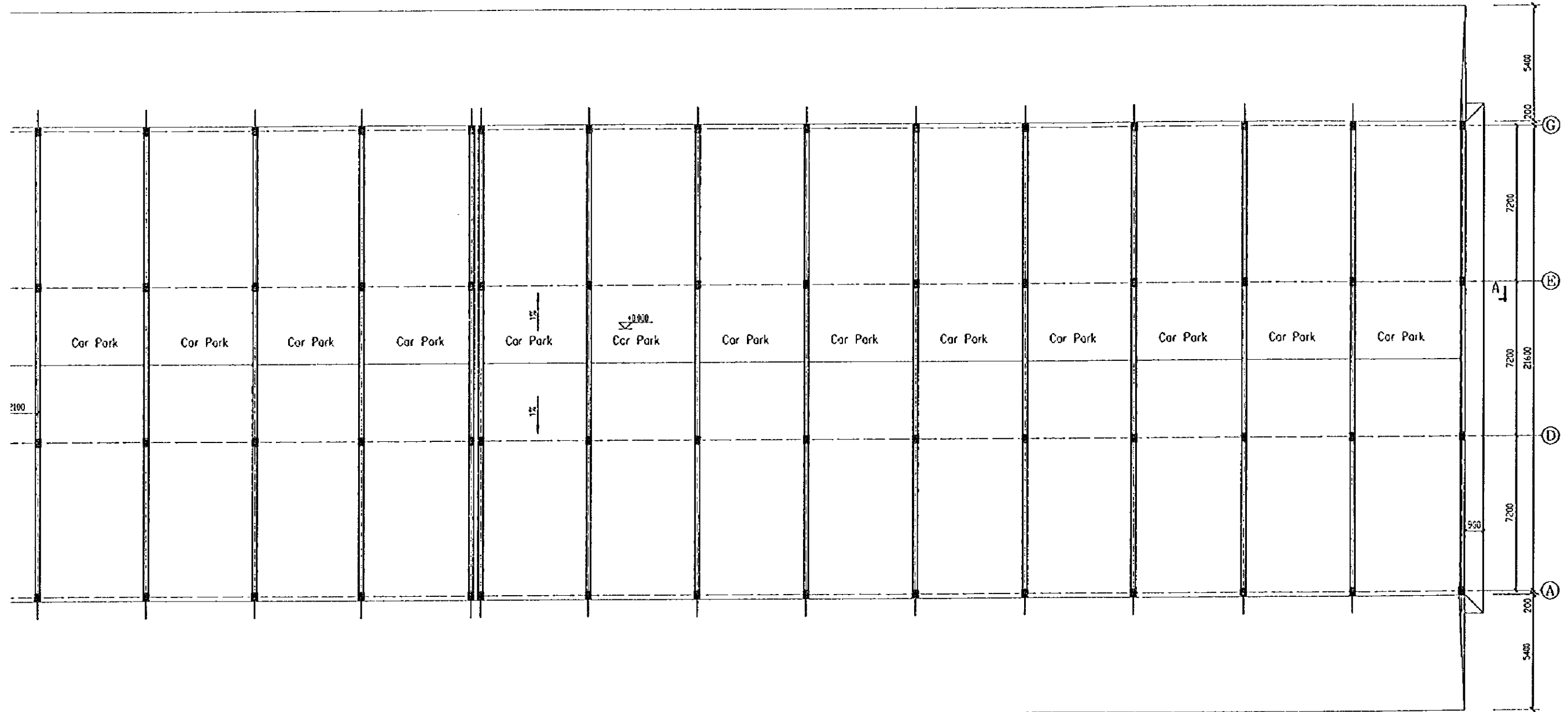


Plan

1:100

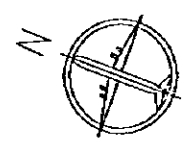


-0.450



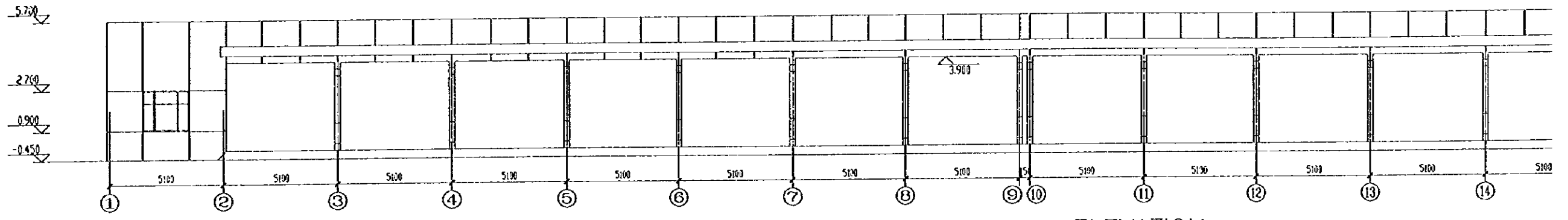
Plan

1:100

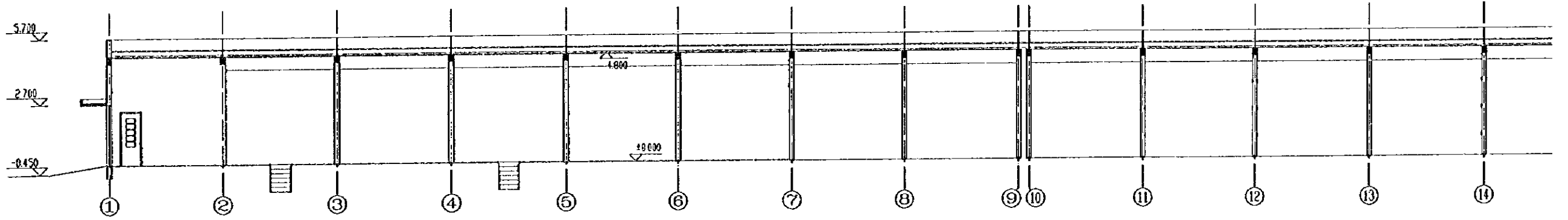


Floor Area : 87.42X216=1888.27M

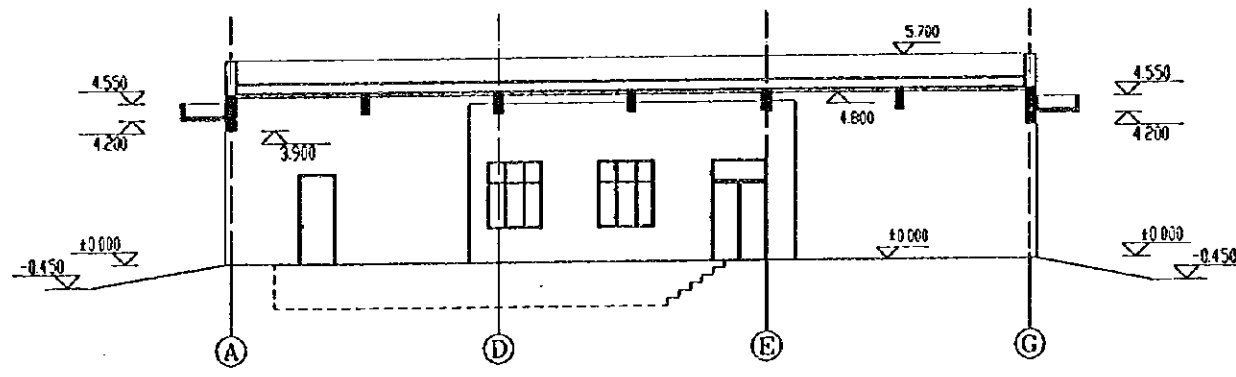
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT SEPTEMBER 1997	
REFUELER AND SERVICE PARKING BUILDING	
PLAN	
SCALE	DWG3-A09(3/4)
JAPAN INTERNATIONAL COOPERATION AGENCY	



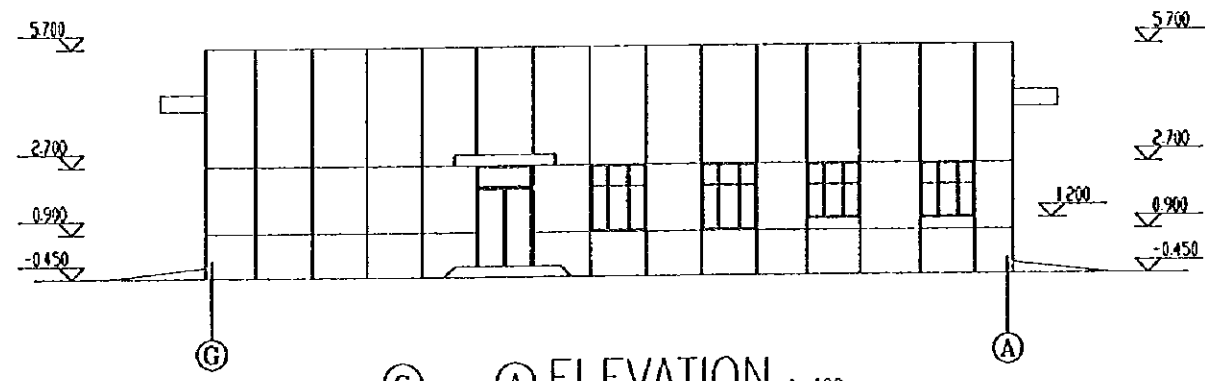
① — ⑱ ELEVATION 1:100



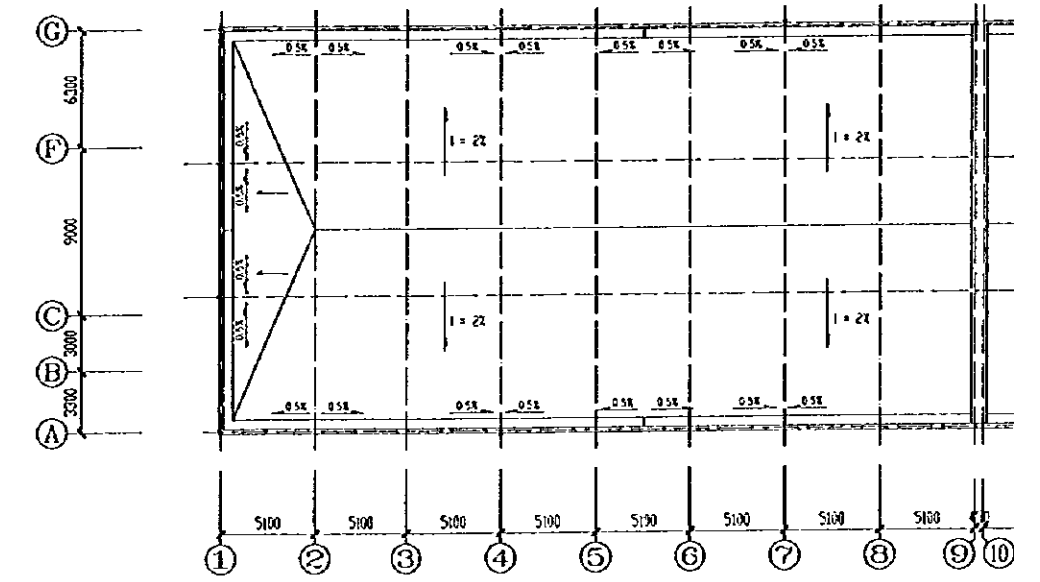
A - A SECTION 1:100



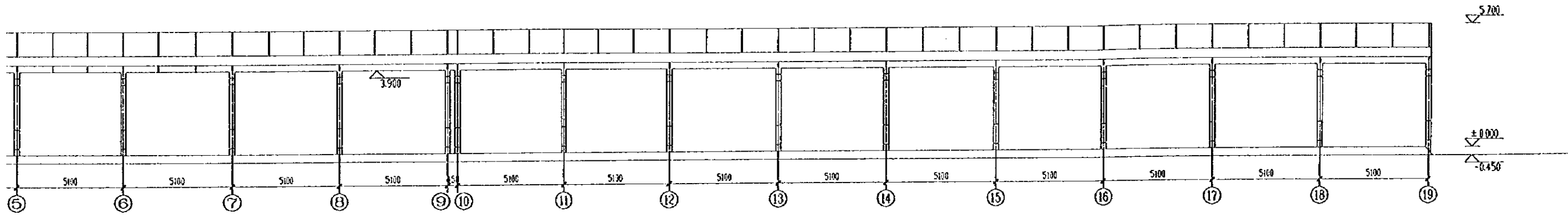
B - B SECTION 1:100



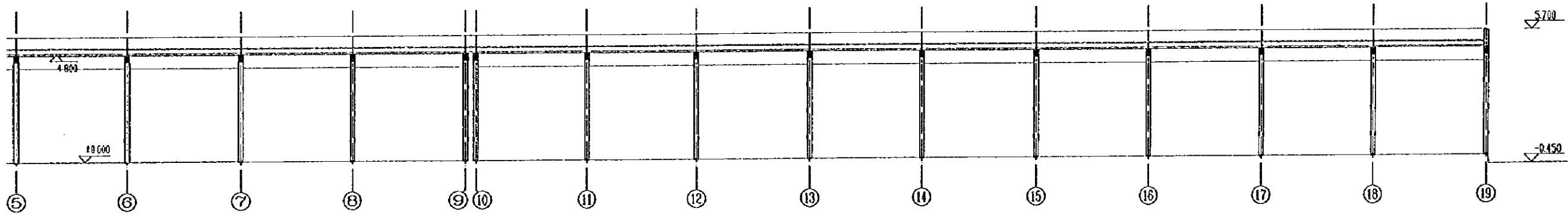
Ⓒ — Ⓐ ELEVATION 1:100



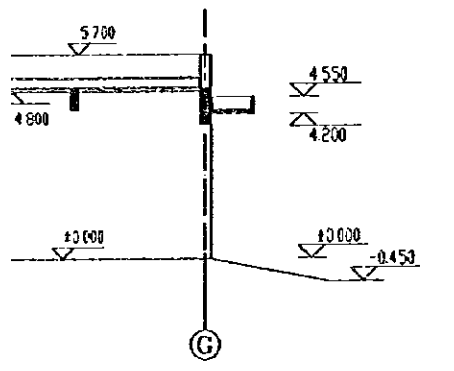
ROOF PLAN



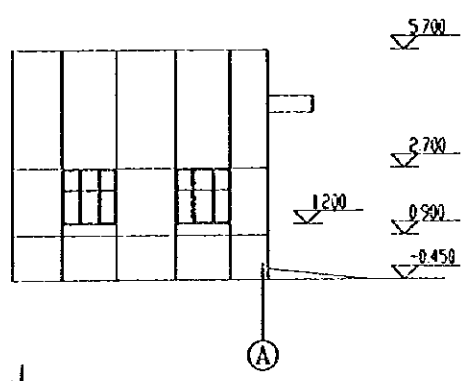
① — ⑱ ELEVATION 1:100



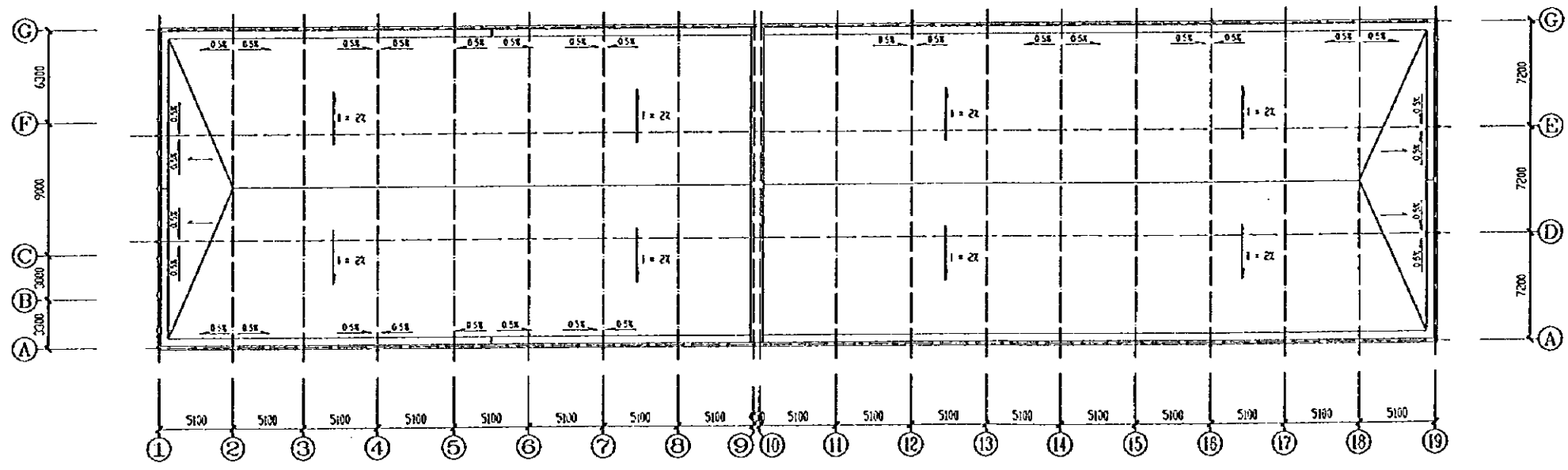
A - A SECTION 1:100



1:100

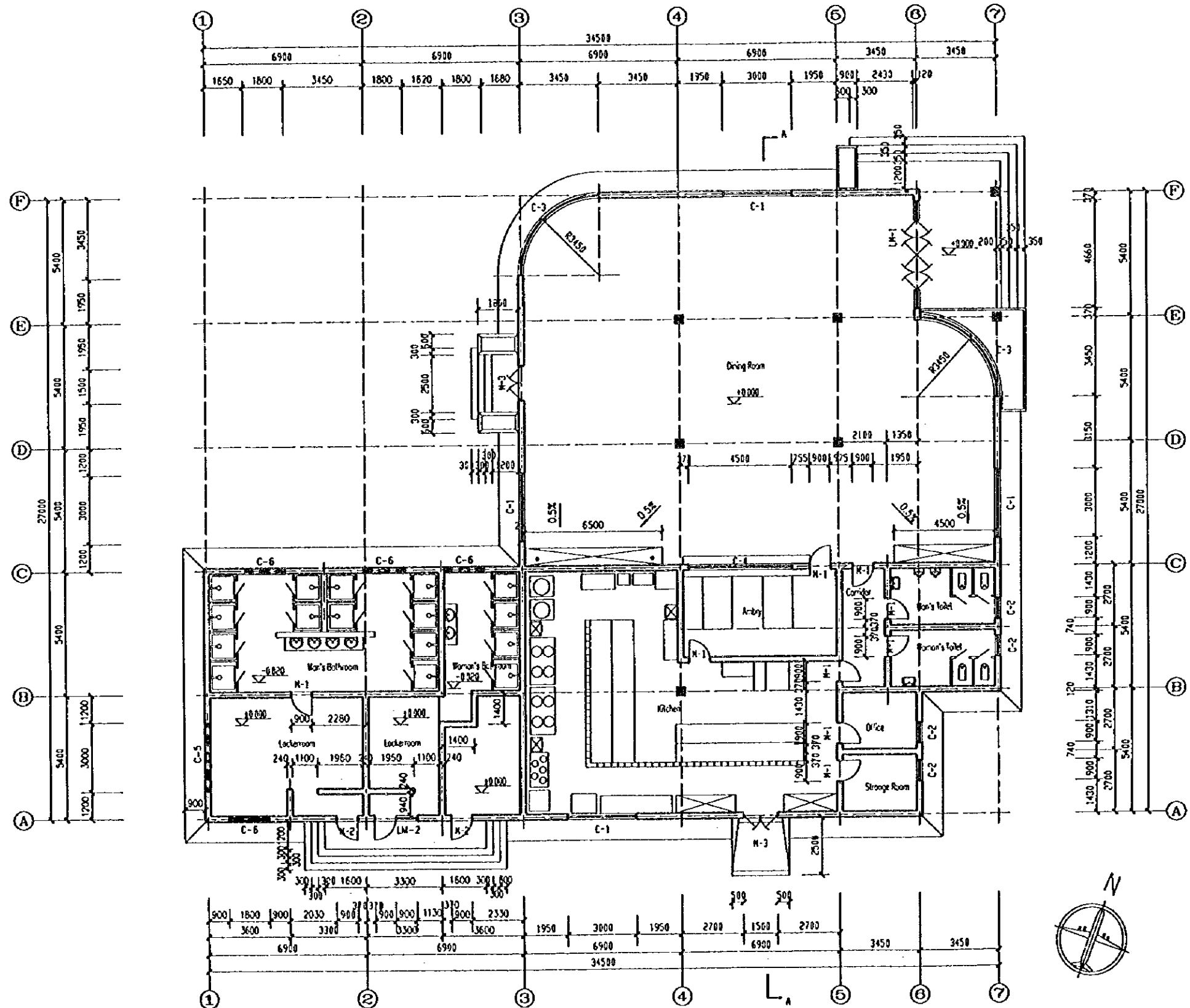


1:100



ROOF PLAN 1:200

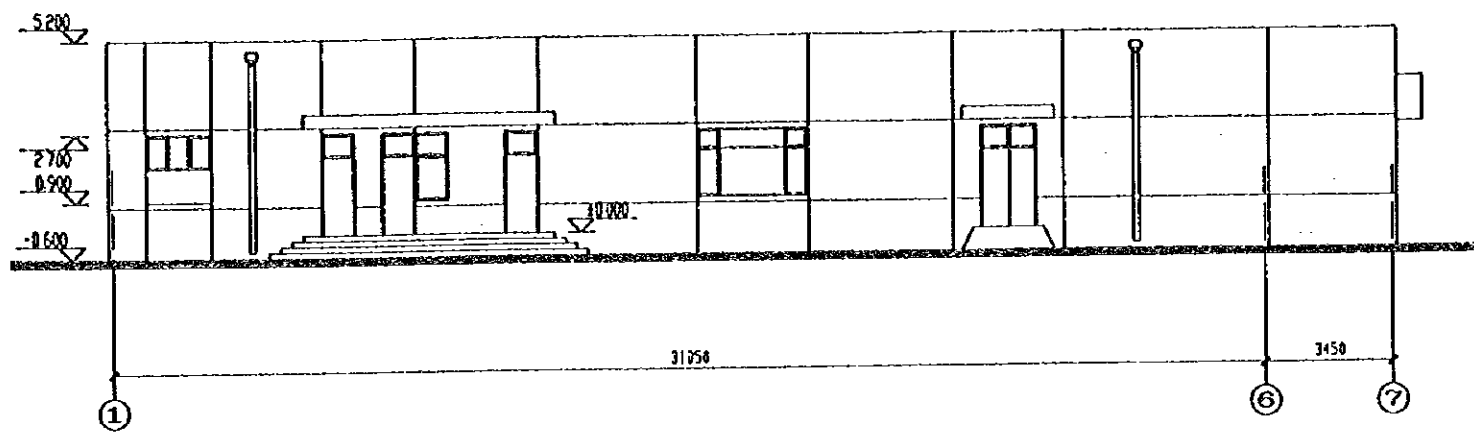
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
REFUELER AND SERVICE PARKING BUILDING	
ELEVATIONS, SECTIONS AND ROOF PLAN	
SCALE	DWG-A03(1/4)
JAPAN INTERNATIONAL COOPERATION AGENCY	



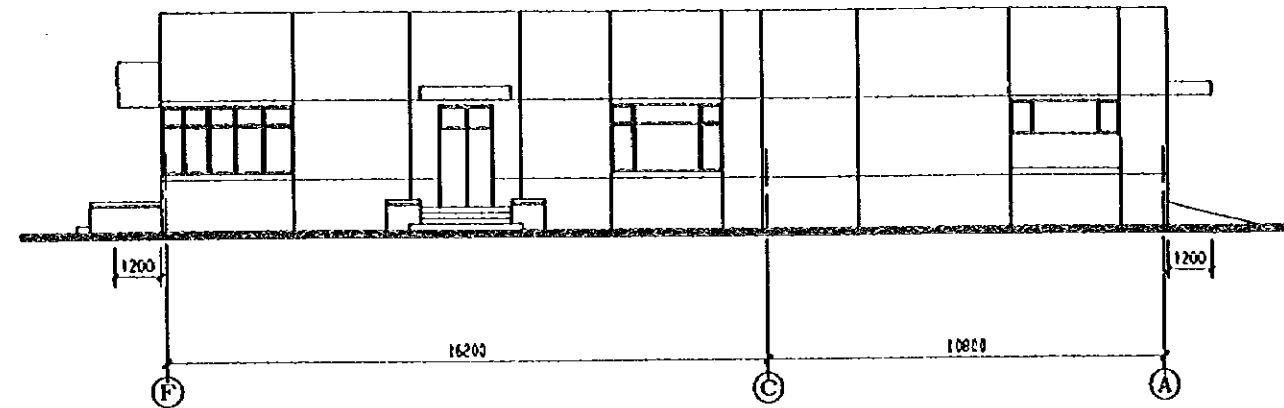
PLAN 1 : 100

Floor Area : $11.04 \times 34.74 - 5.4 \times 3.45 + 16.2 \times 20.94 - 3.57 \times 3.57 + 3.14 \times 3.57 \times 3.57 / 4 = 701.39 \text{M}^2$

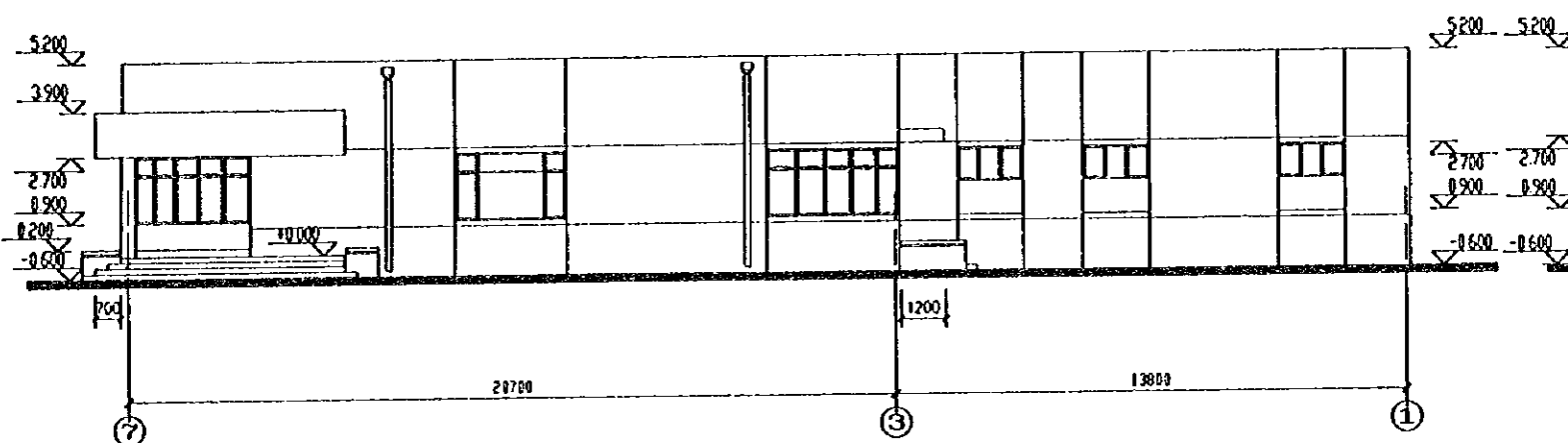
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUODONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
DINING HALL	
PLAN	
SCALE	1 : 100
DWG3-A10N(1/2)	
JAPAN INTERNATIONAL COOPERATION AGENCY	



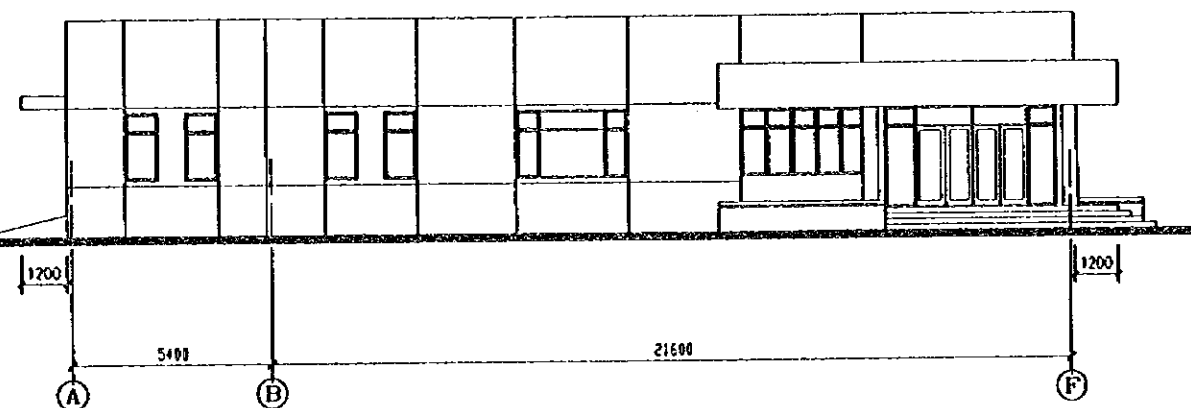
① — ⑦ ELEVATION 1 : 100



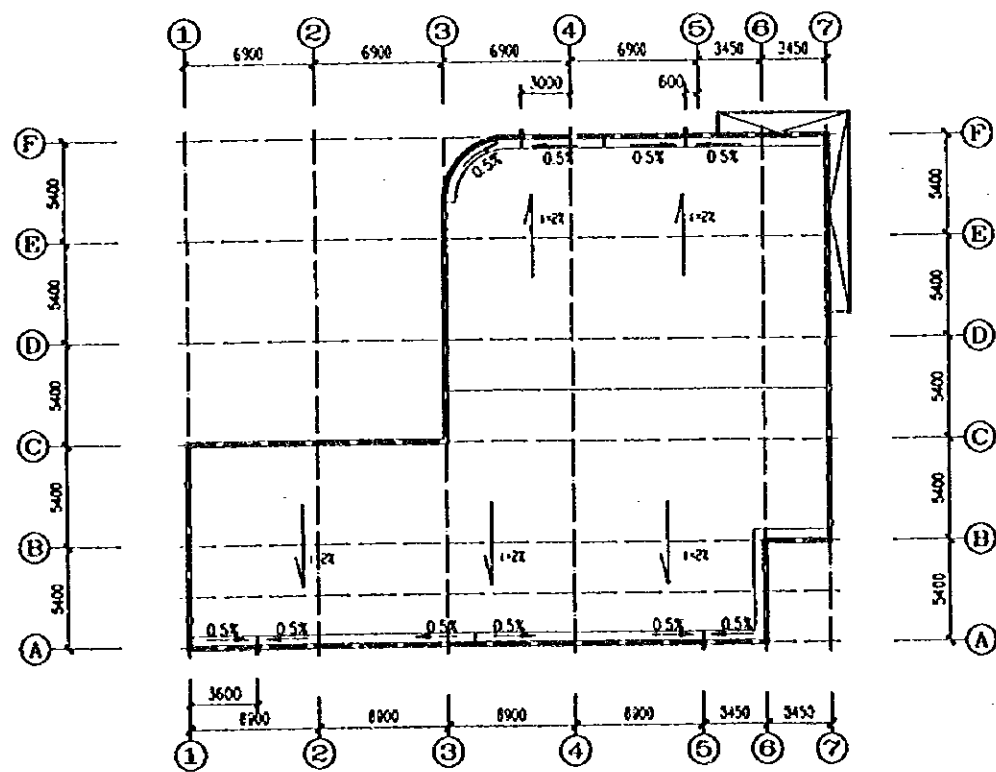
F — A ELEVATION 1 : 100



⑦ — ① ELEVATION 1 : 100

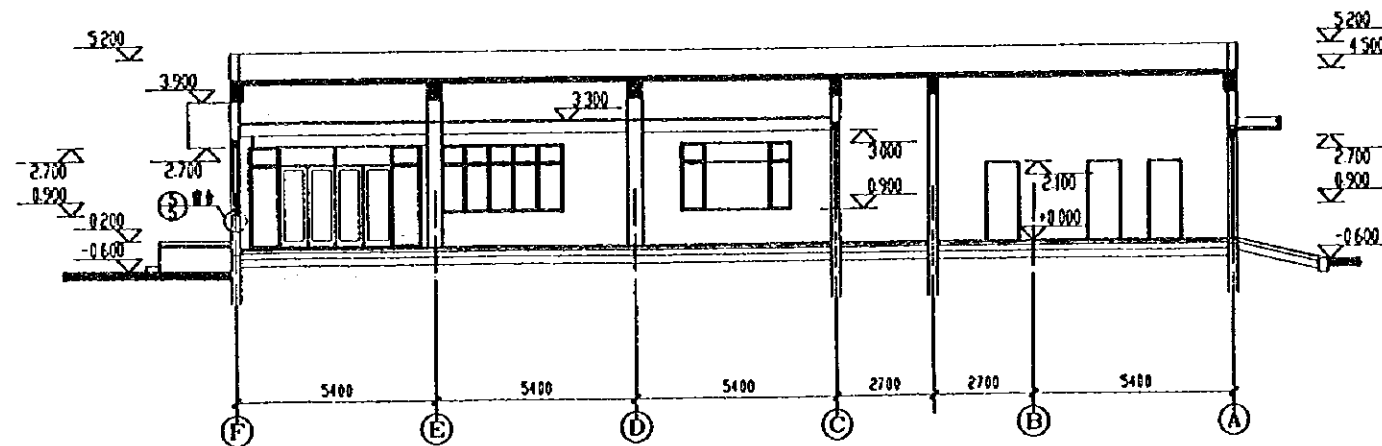


A — F ELEVATION 1 : 100



ROOF PLAN

1 : 200



A-A SECTION 1 : 100

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
DINING HALL	
ROOF PLAN, ELEVATIONS AND SECTION	
SCALE	DWG-A10A(2/2)
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--4 Fire Fighting and Rescue Facilities

SEPTEMBER 1997

NIPPON KOEI CO., LTD
NIKKEN SEKKEI LTD.

DETAILED DESIGN OF SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT

NIPPON KOEI CO., LTD.
NIKKEN SEKKEI LTD.

Fire Fighting and Rescue Facilities (1/5) Main Fire Station (1/2)

DWG No.	TITLE	題 目
41-A1	BUILDING MATERIAL CONSTRUCTION TABLE	仕上表
41-A2	FINISHING TECHNICAL SPECIFICATIONS 1/4	特記仕様書
41-A3	FINISHING TECHNICAL SPECIFICATIONS 2/4	特記仕様書
41-A4	FINISHING TECHNICAL SPECIFICATIONS 3/4	特記仕様書
41-A5	FINISHING TECHNICAL SPECIFICATIONS 4/4	特記仕様書
41-A6	PLOT PLAN	配置図
41-A7	1st FLOOR PLAN	1階平面図
41-A8	2nd FLOOR PLAN	2階平面図
41-A9	ROOF PLAN	屋根平面図
41-A10	ELEVATION	立面図
41-A11	SECTION	断面図
41-A12	SCHEDULE OF DOOR AND WINDOWS, DETAIL OF INSPECTION PIT	建具表・ピット詳細図
41-A13	EXTERIOR WALL DETAILS	外壁詳細図
41-A14	DETAILS OF STAIR CASE	階段詳細図
41-A15	DETAILS OF TOILET	便所詳細図
41-A16	PAVING	外構図
41-S1	FOUNDATION PLAN	基礎伏図
41-S2	FOUNDATION REINFORCEMENT DETAILS (1)	基礎配筋詳細図(1)
41-S3	FOUNDATION REINFORCEMENT DETAILS (2)	基礎配筋詳細図(2)
41-S4	FOUNDATION REINFORCEMENT DETAILS (3)	基礎配筋詳細図(3)
41-S5	FOUNDATION REINFORCEMENT DETAILS (4)	基礎配筋詳細図(4)
41-S6	FOUNDATION REINFORCEMENT DETAILS (5)	基礎配筋詳細図(5)
41-S7	FOUNDATION REINFORCEMENT DETAILS (6)	基礎配筋詳細図(6)
41-S8	COLUMN LAYOUT 1/2 (1)-(14) AND REINFORCEMENT DETAIL	柱伏図1/2 (1)-(14)通り
41-S9	COLUMN LAYOUT 2/2 (15)-(17)	柱伏図2/2 (15)-(17)通り
41-S10	1st FLOOR GIRDER AND BEAM PLAN	1階梁伏図
41-S11	1st FLOOR REINFORCEMENT PLAN	1階床配筋図
41-S12	ROOF GIRDER AND BEAM PLAN	屋根梁伏図
41-S13	ROOF REINFORCEMENT PLAN	屋根配筋図
41-S14	1st FLOOR, 2nd FLOOR GIRDER AND BEAM REINFORCEMENT DETAIL 1/2	1階・2階梁配筋詳細図(1/2)
41-S15	1st FLOOR, 2nd FLOOR GIRDER AND BEAM REINFORCEMENT DETAIL 2/2	1階・2階梁配筋詳細図(2/2)
41-S16	GIRDER REINFORCEMENT STANDARD DETAILS	梁標準配筋図

DETAILED DESIGN OF SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT

NIPPON KOEI CO., LTD.
NIKKEN SEKKEI LTD.

Fire Fighting and Rescue Facilities (2/5) Main Fire Station (2/2)

DWG No.	TITLE	題 目
41-E1	1st FLOOR LIGHTING PLAN	1階電灯コンセント設備図
41-E2	2nd FLOOR LIGHTING PLAN	2階電灯コンセント設備図
41-E3	1st FLOOR F.C.U POWER SUPPLY PLAN	1階F.C.U電源設備図
41-E4	2nd FLOOR F.C.U POWER SUPPLY PLAN	2階F.C.U電源設備図
41-E5	1st FLOOR FIRE ALARM AND POWER DISTRIBUTION PLAN	1階火災報知設備図・電力設備平面図
41-E6	2nd FLOOR FIRE ALARM AND POWER DISTRIBUTION PLAN	2階火災報知設備図・電力設備平面図
41-E7	LIGHTING DISCHARGE AND GROUNDING PLAN	電灯設備図・接地設備図
41-E8	POWER DISTRIBUTION SYSTEM DIAGRAM	電力系統図
41-E9	POWER SUPPLY SYSTEM SITE PLAN AND ENVIRONMENT LIGHTING	外部電気設備図
41-E10	EXPANSION WATER TANK POWER SUPPLY PLAN	膨張タンク動力設備図
41-EC1	SYSTEM DIAGRAM OF TELEPHONE BROADCASTING AND TELEVISION	電話・放送・TV設備系統図
41-EC2	CABLE WIRING DIAGRAM OF OUTDOOR BUILDING	外部配管配線図
41-EC3	1st FLOOR TELEPHONE BROADCAST AND TV PLAN	1階電話・放送・TV設備平面図
41-EC4	2nd FLOOR TELEPHONE BROADCAST AND TV PLAN	2階電話・放送・TV設備平面図
41-EC5	PLAN OF THE FOUNDATION OF ANTENNA	アンテナ基礎図
41-M1	1st FLOOR HEATING PLAN	1階暖房設備図
41-M2	1st FLOOR EXHAUST PLAN	1階換気設備図
41-M3	1st FLOOR AC PLAN	1階空調設備図
41-M4	2nd FLOOR AC PLAN	2階空調設備図
41-M5	HEATING SYSTEM DIAGRAM	暖房系統図
41-M6	P-1, P-2 EXHAUST SYSTEM DIAGRAM	P-1, P-2排気系統図
41-M7	AIR CONDITION SYSTEM DIAGRAM (1/2)	空調システム系統図 (1/2)
41-M8	AIR CONDITION SYSTEM DIAGRAM (2/2)	空調システム系統図 (2/2)
41-MP1	1st FLOOR PLAN WATER SUPPLY AND DRAINAGE, FIRE HYDRANT	1階給排水設備・消火栓設備図
41-MP2	2nd FLOOR PLAN WATER SUPPLY AND DRAINAGE, FIRE HYDRANT	2階給排水設備・消火栓設備図
41-MP3	TOILET, KITCHEN, LAVATORY PLAN DETAILS	便所・厨房・洗面所・平面詳細図
41-MP4	WATER SUPPLY, HYDRANT PIPING DIAGRAM	給排水設備・消火設備系統図
41-MP5	SEWAGE PIPING DIAGRAM	汚水排水系統図

DETAILED DESIGN OF SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT

NIPPON KOEI CO., LTD.
NIKKEN SEKKEI LTD.

Fire Fighting and Rescue Facilities (3/5) First Aid Garage

DWG No.	TITLE	題 目
42-A1	FINISHING TECHNICAL SPECIFICATION	特記仕様書
42-A2	DESIGN INTRODUCTION, BUILDING CONSTRUCTION TABLE, DOOR AND WINDOW TABLE	設計概要・仕上表・建具表
42-A3	1st FLOOR PLAN, ELEVATION	1階平面図・立面図
42-A4	ROOF PLAN, ELEVATION, SECTION	屋根平面図・立面図・断面図
42-S1	FOUNDATION PLAN AND REINFORCEMENT DETAILS	基礎伏図・基礎配筋図
42-S2	ROOF REINFORCEMENT PLAN, RING BEAM LAYOUT AND DETAILS	屋根配筋図・梁配筋詳細図
42-E1	LIGHTING PLAN AND POWER DISTRIBUTION SYSTEM	電灯・コンセント設備図・電力系統図
42-E2	HEAT EXCHANGE STATION CONTROL BOARD AUXILIARY WIRING	熱交換機制御設備図・2次側配線図
42-E3	HEAT EXCHANGE STATION POWER SUPPLY PLAN	熱交換機動力設備図
42-EC1	TELEPHONE PLAN	電話設備図
42-MP1	WATER SUPPLY AND DRAINAGE, FIRE HYDRANT SYSTEM	給排水設備図・消火栓設備図

DETAILED DESIGN OF SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT

NIPPON KOEI CO., LTD.
NIKKEN SEKKEI LTD.

Fire Fighting and Rescue Facilities (4/5) Sub Fire Station

DWG No.	TITLE	題 目
43-A1	FINISHING TECHNICAL SPECIFICATIONS	特記仕様書
43-A2	FINISHING TECHNICAL SPECIFICATIONS, BUILDING CONSTRUCTION TABLE, DOOR AND WINDOW TABLE	特記仕様書・仕上表・建具表
43-A3	PLOT PLAN	配置図
43-A4	1st FLOOR PLAN	1階平面図
43-A5	2nd FLOOR PLAN	2階平面図
43-A6	ELEVATION	立面図
43-A7	SECTION, ROOF PLAN	断面図・屋根平面図
43-A8	DETAILS OF STAIRCASE AND TOILET	段階詳細図・便所詳細図
43-S1	FOUNDATION PLAN AND DETAILS	基礎伏図・基礎詳細図
43-S2	FOUNDATION REINFORCEMENT DETAILS(1)	基礎配筋詳細図(1)
43-S3	FOUNDATION REINFORCEMENT DETAILS(2)	基礎配筋詳細図(2)
43-S4	FOUNDATION REINFORCEMENT DETAILS(3)	基礎配筋詳細図(3)
43-S5	FOUNDATION REINFORCEMENT DETAILS(4)	基礎配筋詳細図(4)
43-S6	2nd FLOOR REINFORCEMENT PLAN, REINFORCEMENT DETAILS	2階床・梁配筋図・配筋詳細図
43-S7	ROOF REINFORCEMENT PLAN	屋根床・梁配筋図
43-S8	2nd FLOOR GIRDER AND BEAM REINFORCEMENT DETAILS	2階梁配筋図
43-S9	ROOF GIRDER AND BEAM REINFORCEMENT DETAILS	屋根梁配筋図
43-S10	GIRDER REINFORCEMENT STANDARD DETAILS	梁標準配筋詳細図
43-S11	BEAM REINFORCEMENT DETAILS	小梁配筋詳細図
43-S12	COLUMNS LAYOUT AND REINFORCEMENT DETAILS	柱伏図・柱配筋詳細図
43-S13	CANOPY AND LINELS DETAILS	庇・臥梁詳細図
43-S14	PLAN LAYOUT AND DETAILS FOR EQUIPMENT FOUNDATION	機械基礎配置図・詳細図
43-S15	DETAILS FOR STAIRCASE (1)	段階詳細図(1)
43-S16	DETAILS FOR STAIRCASE (2)	段階詳細図(2)
43-E1	LIGHTING PLAN	電灯コンセント設備図
43-E2	HVAC POWER SUPPLY AND FIRE ALARM PLAN	空調動力図・火災報知設備図
43-E3	POWER DISTRIBUTION PLAN	電力設備平面図
43-E4	POWER SUPPLY SYSTEM AND GROUNDING PLAN	電力供給図・接地平面図
43-E5	POWER DISTRIBUTION SYSTEM	電力系統図
43-EC1	SYSTEM DIAGRAM OF TELEPHONE BROADCASTING AND TV	電話・放送・TV系統図
43-EC2	CABLE WIRING DIAGRAM OF OUTDOOR BUILDING	外部配管・配線図
43-EC3	TELEPHONE, BROADCAST, TV PLAN AND TV FOUNDATION PLAN	電話・放送・TV設備平面図・TV基礎平面図
43-M1	1st FLOOR AC PLAN	1階空調設備図
43-M2	1st FLOOR EXHAUST PLAN	1階換気設備図
43-M3	2nd FLOOR AC PLAN	2階空調設備図
43-MP1	1st FLOOR WATER SUPPLY AND DRAINAGE PLAN	1階給排水設備図
43-MP2	2nd FLOOR WATER SUPPLY AND DRAINAGE PLAN	2階給排水設備図
43-MP3	PLAN DETAILS AND SYSTEM DIAGRAM	平面詳細図・系統図

DETAILED DESIGN OF SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT

NIPPON KOEI CO., LTD.
NIKKEN SEKKEI LTD.

Fire Fighting and Rescue Facilities (5/5) Fire Hydrant and Pump Station

DWG No.	TITLE	題 目
44-A1	DESIGN INTRODUCTION, FINISHING TECHNICAL SPECIFICATIONS, BUILDING CONSTRUCTION TABLE, DOOR AND WINDOW TABLE	設計概要・特記仕様書・仕上表・建具表
44-A2	1st FLOOR PLAN, ELEVATION	1階平面図・立面図
44-A3	ROOF PLAN, ELEVATION, SECTION	屋根平面図・立面図・断面図
44-S1	FOUNDATION PLAN, ROOF REINFORCEMENT PLAN	基礎伏図・屋根伏図
44-S2	RING BEAM LAYOUT AND DETAILS, JOINING DETAIL OF CRANE GIRDER WITH WALL AND BEAM	クレーンガーダー取付詳細図
44-E1	HIGH-VOLTAGE (10KV) POWER SUPPLY SYSTEM	高圧受変電設備図
44-E2	LOW-VOLTAGE(400V) POWER SUPPLY SYSTEM	低圧電力系統図
44-E3	POWER RECEIVING AND DISTRIBUTION FACILITIES	電気室平面図・配線リスト
44-E4	LIGHTING PLAN, LIGHTING DISCHARGE AND GROUNDING PLAN	電灯・コンセント設備図・接地図
44-E5	VALVE CONTROL, SWITCH BOARD PANEL	制御盤姿図
44-E6	FIRE PUMP ELECTRIC CONTROL DIAGRAM	消火ポンプ制御結線図
44-E7	AUXILIARY WIRING PLAN	補助回路結線図
44-EC1	TELEPHONE PLAN	電話設備図
44-M1	AC PLAN	空調平面図
44-MP1	FIRE HYDRANT PIPING PLAN	消火栓配管平面図
44-MP2	FIRE HYDRANT PIPING DETAILS	消火栓配管詳細図
44-U1	AIR SIDE FIRE HYDRANT LAYOUT PLAN (1)	飛行区消火栓平面図 (1)
44-U2	AIR SIDE FIRE HYDRANT LAYOUT PLAN (2)	飛行区消火栓平面図 (2)
44-U3	APRON FIRE HYDRANT AND WATER SUPPLY PLAN (1)	エプロン消火栓・給水平面図 (1)
44-U4	APRON FIRE HYDRANT AND WATER SUPPLY PLAN (2)	エプロン消火栓・給水平面図 (2)
44-U5	DETAILS OF FIRE HYDRANT (1)	消火栓詳細図 (1)
44-U6	DETAILS OF FIRE HYDRANT (2)	消火栓詳細図 (2)

Construction Table

Room	Floor/Ground		Interior wall		Skirt & Dado		Ceiling		Roof
	Surface coating	Construction	Surface coating	Construction	Surface coating	Construction	Surface coating	Construction	Construction
First floor									
Parking lot	concrete	ground 1	coating	interior wall 1	cement	dado 1	coating	ceiling 1	roof 1
Fire duty room	wood floor	ground 7	coating	interior wall 1	wood	dado 2	gypsum board	ceiling 2	
Office & duty room	wood floor	ground 7	coating	interior wall 1	wood	dado 2	gypsum board	ceiling 2	
Equipment room	concrete	ground 1	coating	interior wall 1	cement	dado 1	coating	ceiling 1	
Meeting room	wood floor	ground 5	coating	interior wall 1	wood	dado 2	gypsum board	ceiling 2	
Entrance	paving tile	ground 3	coating	interior wall 1	paving tile	skirt 2	gypsum board	ceiling 2	
Corridor	paving tile	ground 3	coating	interior wall 1	paving tile	skirt 2	gypsum board	ceiling 2	
Training room	wood floor	ground 5	coating	interior wall 1	wood	dado 2	gypsum board	ceiling 2	
Store	concrete	ground 2	coating	interior wall 1	paint	dado 1	gypsum board	ceiling 2	
Toilet	paving tile	ground 4	facing tile	interior wall 2			gypsum board	ceiling 2	
Shower room	paving tile	ground 4	facing tile	interior wall 2			gypsum board	ceiling 2	
Locker room	paving tile	ground 4	facing tile	interior wall 2			gypsum board	ceiling 2	
Cleaning room	paving tile	ground 4	facing tile	interior wall 2			gypsum board	ceiling 2	
Drying room	paving tile	ground 4	facing tile	interior wall 2			gypsum board	ceiling 2	
Distribution room	cement	ground 2	coating	interior wall 1	cement	skirt 1	gypsum board	ceiling 2	
Battery room	paving tile	ground 6	coating	interior wall 1	paving tile	skirt 2	gypsum board	ceiling 2	
Repair room	paving tile	ground 3	coating	interior wall 1	paving tile	skirt 2	gypsum board	ceiling 2	
Tool storage	paving tile	ground 3	coating	interior wall 1	paving tile	skirt 2	gypsum board	ceiling 2	
Chief lodging	paving tile	ground 3	coating	interior wall 1	paint	dado 1	gypsum board	ceiling 2	
Big dining hall	paving tile	ground 3	coating	interior wall 1	wood	dado 2	gypsum board	ceiling 2	roof 1
Small dining hall	paving tile	ground 3	coating	interior wall 1	wood	dado 2	gypsum board	ceiling 2	roof 1
Pantry	paving tile	ground 3	coating	interior wall 2			gypsum board	ceiling 2	roof 1
Kitchen	paving tile	ground 4	coating	interior wall 2			gypsum board	ceiling 2	roof 1
Kitchen store	paving tile	ground 3	coating	interior wall 1	paint	dado 1	gypsum board	ceiling 2	roof 1
Kitchen office	paving tile	ground 3	coating	interior wall 1	paint	dado 2	gypsum board	ceiling 2	roof 1
First floor									
Library	wood floor	floor 5	coating	interior wall 1	wood	dado 2	coating	ceiling 1	roof 1
Small meeting room	wood floor	floor 5	coating	interior wall 1	wood	dado 2	coating	ceiling 1	roof 1
Hostel	paving tile	floor 1	coating	interior wall 1	paint	dado 1	coating	ceiling 1	roof 1
Firemen lodging	cement	floor 1	coating	interior wall 1	paint	dado 1	coating	ceiling 1	roof 1
Toilet	paving tile	floor 2	facing tile	interior wall 2			gypsum board	ceiling 2	roof 1
Wash room	paving tile	floor 2	facing tile	interior wall 2			gypsum board	ceiling 2	roof 1
Hot water room	paving tile	floor 2	facing tile	interior wall 2			gypsum board	ceiling 2	roof 1
Store	paving tile	floor 1	coating	interior wall 1	paint	dado 1	gypsum board	ceiling 2	roof 1
Chem. dosing room	paving tile	floor 1	coating	interior wall 1	paint	dado 1	gypsum board	ceiling 2	roof 1
Corridor	paving tile	floor 1	coating	interior wall 1			gypsum board	ceiling 2	roof 1

Finish Technical Specifications (No.1)

No.	Surface	Structural Practice
Flooring		
Ground 1 (floor)	Concrete	<ol style="list-style-type: none"> C25 concrete facing with a thickness of 220, double layer and two way reinforcement $\phi 10@250$ (tamped by blocks and troweled, cratching and hacking, each block not larger than $6M \times 6M$, asphalt to be treated and caulking with pine wood strip) Plastic film damp-proof course C10 concrete bedding course, 100 in thickness Graded sand & stone to be compacted by rolling, 300 in thickness Earth roller compacted, density > 90% (Sampling by circular)
Ground 2 (floor)	Cement	<ol style="list-style-type: none"> 1:2.5 cement mortar, 20 in thickness, to be rolled and troweled Binding course with a layer of neat cement paste 150 thick C20 concrete Plastic film damp-proof course 100 thick C10 concrete bedding course 300 thick graded sand & stone to be compacted by rolling Rammed earth
Ground 3 (floor)	Floor tile	<ol style="list-style-type: none"> 8~10 thick floor tile, dry cement painting Spread a layer of neat cement with some water 1:4 dry cement mortar binding course, 30 in thickness Binding course with a layer of neat cement paste C20 concrete, 150 in thickness Plastic film damp-proof course 100 thick C10 concrete bedding course 300 thick graded sand & stone to be compacted by rolling Rammed earth
Ground 4 (floor)	Floor tile (water-proof course)	<ol style="list-style-type: none"> Paving tile 8~10 in thickness, filling dry cement Spread with a layer a neat cement with some water 1:4 dry cement mortar binding course, 30 in thickness A laid of neat cement flashing 1:2.4 fine aggregate concrete flashing from the door to the floor drain, 60 in thickness at the highest point, at least 30 in thickness at the lowest point

Finish Technical Specifications (No.2)

No.	Surface	Structural Practice
Flooring		
		<ol style="list-style-type: none"> Plastic film damp-proof course C10 concrete bedding course, 100 in thickness graded sand and crushed stone to be compacted by rolling, 300 in thickness Rammed earth
Ground 5 (floor)	Wood floor	<ol style="list-style-type: none"> Single grooved and tongued wood flooring with preservative liquid on the bottom 50*60 wood stud, c to c 500; 50*50 transverse strut, c to c 400; stud to be 20 elevated and nailed firmly to wood cushion block, c to c of cushion block 500; C15 concrete bedding course to be troweled while tamping (with 1:1 dry cement mortar on the surface, No.12 lead wire tied firmly to stud to be embedded, c to c 500) Damp-proof course with a layer of cold primer, on layer of felt and two layer of asphalt 1:3 cement mortar leveling course A layer of neat cement paste C20 concrete, 150 in thickness Graded sand and stone to be compacted by rolling, 300 in thickness Rammed earth
Ground 6 (floor)	Floor tile (anti-corrosion)	<ol style="list-style-type: none"> 15 thick acid-resisting tile pavement, pointing with sodium silicate acid-resisting mortar Sodium silicate acid-resisting mortar binding course, 15 in thickness Sodium silicate acid-resisting mortar binding course, 20 in thickness Water-proof course with two layers of felt and three coats of asphalt, to be 150 rolled up around and covered with course sand 1:3 cement mortar leveling course, 60 in thickness A layer of neat cement paste C10 concrete bedding course, 150 in thickness Graded sand and stone to be compacted by rolling Rammed earth

Finish Technical Specifications (No.3)

No.	Surface	Structural Practice
Flooring		
Ground 1 (floor)	Concrete Flooring	<ol style="list-style-type: none"> 1. Static resisting raised flooring, 360 in thickness 2. 150 thick C20 concrete to be rendered while pouring, then spread with 1:1 cement mortar to be compacted and troweled 3. Plastic film damp-proof course 4. C10 concrete, 150 in thickness 5. Graded sand and stone to be compacted by rolling, 300 in thickness 6. Rammed earth
Step		
Step 1	Cement	<ol style="list-style-type: none"> 1. 150 thick 1:2.5 cement mortar to be compacted and finished 2. A layer of neat cement paste on binding course 3. 150 thick C20 concrete, the surface of step to be 1% sloped to outside 4. Graded sand and stone to be compacted by rolling, 300 in thickness 5. Rammed earth
Ramp		
Ramp 1	Cement indentation	<ol style="list-style-type: none"> 1. 150 thick 1:2 cement mortar plastering, non-slip saw-teeth surface with a width of 60 and 7 of depth to be made 2. A layer of neat cement paste on surface of binding course 3. C20 concrete, 150 in thickness 4. Graded sand and stone to be compacted by rolling, 300 in thickness 5. Rammed earth
Apron		
Apron 1	Concrete	<ol style="list-style-type: none"> 1. 50 thick C15 concrete to be troweled while tamped, spread with 1:1 cement mortar to be rolled and finished 2. Graded sand and stone, 300 in thickness 3. Rammed earth

Finish Technical Specifications (No.4)

No.	Surface	Structural Practice
Floor		
Floor 1	Floor tile	<ol style="list-style-type: none"> 1. Paving tile, 8~10 in thickness, filling dry cement 2. Spread neat cement with some water 3. 1:4 dry cement mortar binding course, 20 in thickness 4. A layer of neat cement paste on surface of binding course 5. 40 thick 1:2:3 concrete 6. R.C.slabs
Floor 2	Floor tile	<ol style="list-style-type: none"> 1. Paving tile, 8~10 in thickness, filling dry cement 2. Spread neat cement with some water 3. 1:4 dry cement mortar binding course, 20 in thickness 4. A layer of neat cement paste on surface of binding course 5. 1:2:4 fine aggregate flashing from the door to floor drain, 50 in thickness at highest point, not less than 30 in thickness at the lowest point 6. Water-proof course with two layers felt and three coats of asphalt to be 150 rolled up around and covered with course sand, 300 to be laid out at the door 7. 20 thick 1:3 dry cement mortar leveling course, small splayed fillet to be made around, and a layer of cold primer to be coated 8. A layer of neat cement paste on surface of binding course 9. R.C.slabs
Floor 3	Floor tile (anti-corrosion)	<ol style="list-style-type: none"> 1. Acid resisting tile pavement, 15 in thickness pointing with sodium silicate acid-resisting mortar 2. 10 thick sodium silicate acid resisting mortar binding course 3. 20 thick sodium silicate acid resisting mortar leveling course 4. Insulation layer of water emulsification rubberized asphalt with two layers of grass cloth and three coating, to be 150 rolled up around 5. 1:3 cement mortar leveling course, 20 in thickness 6. A cement mortar binding course 7. R.C.slabs
Floor 4	Cement	<ol style="list-style-type: none"> 1. 1:2.5 cement mortar with a thickness of 20 to be tamped and troweled 2. A layer of neat cement paste 3. 1:2:3 fine aggregated concrete with a thickness of 50 4. R.C.slabs

Finish Technical Specifications (No.5)

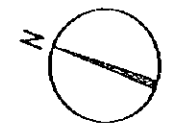
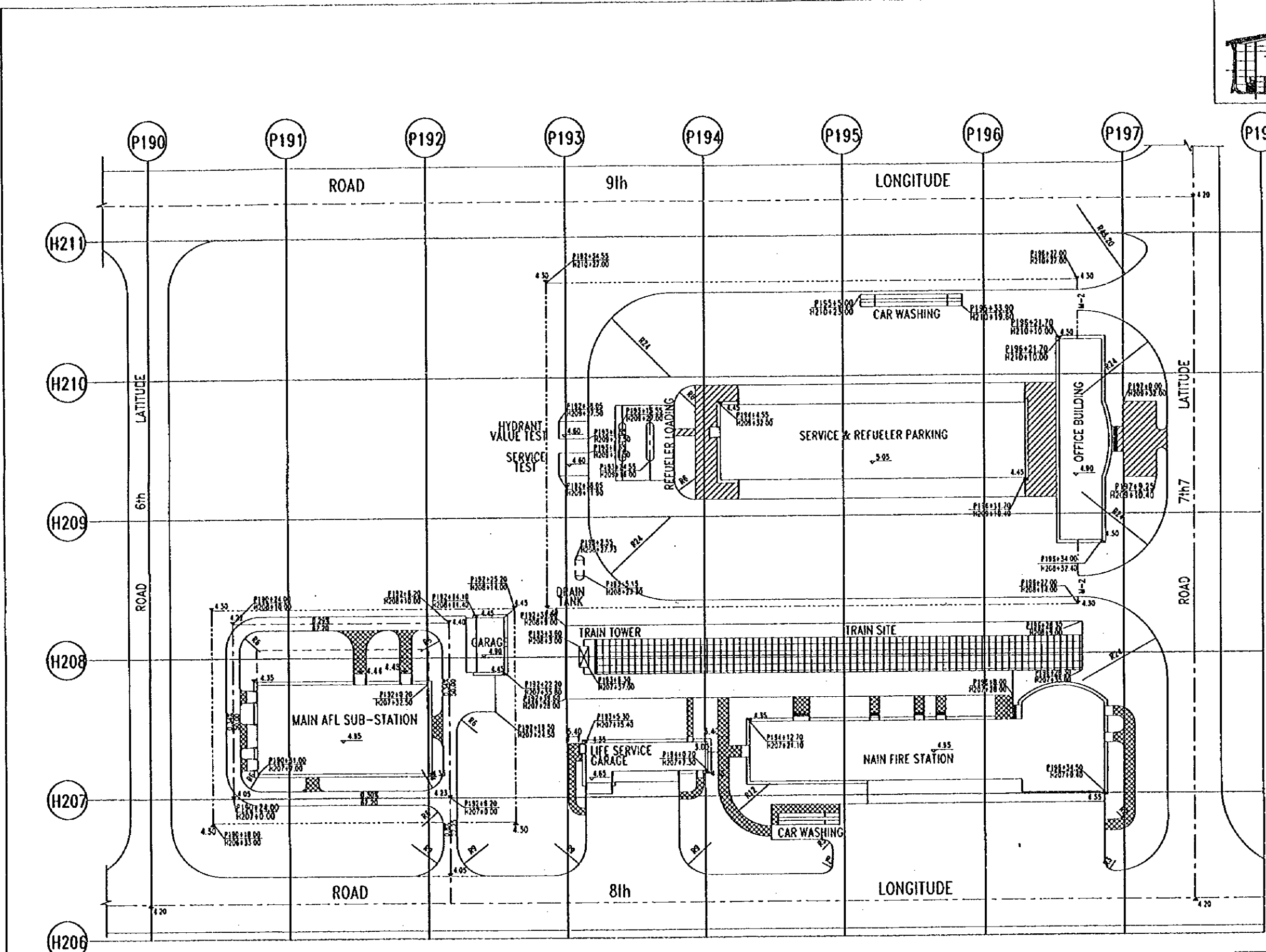
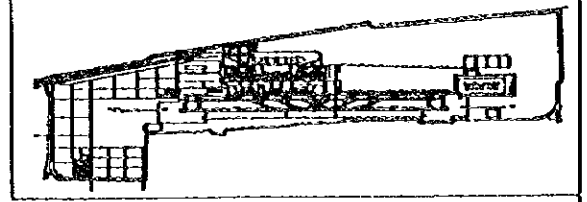
No.	Surface	Structural Practice
Floor		
Floor 5	Wood	<ol style="list-style-type: none"> 1. Single grooved and tongued wood flooring with preservative liquid on the bottom 2. 50*60 wood stud, c to c 500; 50*50 transverse strut, c to c 400 (filled with dry cinder with a thickness of 20) 3. Stud to be 20 elevated and nailed firmly to wood cushion block, c to c of the block 500 4. R.C.slab, No.12 lead wire to be embedded (tied firmly to stud) c to c 500
Interior Wall		
Floor 2	Floor tile	<ol style="list-style-type: none"> 1. Sprayed with internal wall coating 2. covered with 1:2.5 cement mortar with a thickness of 5, to be compacted and traweled 3. 13 thick 1:3 cement mortar, bedding and hacking or scoring
Floor 2	Floor tile	<ol style="list-style-type: none"> 1. White cement painting 2. Covered with glazed tile 3. 1:0.3:2.5 cement-lime mortar binding course with a thickness of 8 4. 12 thick 1:3 cement mortar, bedding and hacking or scoring
Skirt		
Skirt 1	Facing tile	<ol style="list-style-type: none"> 1. 6 thick 1:2.5 cement mortar covering, to be compacted and finished 2. 6 thick cement mortar, bedding and hacking or scoring
Skirt 1	Paving tile	<ol style="list-style-type: none"> 1. 10 thick paving tile 2. 12 thick 1:3 cement mortar, bedding and hacking or scoring
Dado		
Dado 1	Paint	<ol style="list-style-type: none"> 1. coated with flat paint 2. covered with 1:2.5 cement mortar, to be compacted and traweled, 5 in thickness 3. 15 thick 1:3 cement mortar, bedding and hacking or scoring

Finish Technical Specifications (No.6)

No.	Surface	Structural Practice
Dado		
Floor 2	Wood	<ol style="list-style-type: none"> 1. Varnish to be grained into bright (high quality) 2. 5 thick plywood facing 3. 24*30 wood joist, c to c two way 600 (wood to be coated with sodium fluoride preservative agent) 4. Dry laid with a layer of asphalt felt 5. Coated with a layer of modified bitumen 6. Wood block to be provided in wall (one block every 1000 along length of wood joist)
Ceiling		
Ceiling 1	Coating	<ol style="list-style-type: none"> 1. Brushed with ceiling coating 2. Covered with 5 thick 1:2.5 cement mortar 3. 15 thick 1:3 cement mortar, bedding and hacking 4. R.C.slab bottom brushed with a layer of neat cement paste (with 3%~5% 107 glue)
Ceiling 2	Paper-faced gypsum board	<ol style="list-style-type: none"> 1. Brushed with ceiling coating 2. 1:2.5 cement mortar covering, 5 in thickness 3. 1:3 cement mortar, bedding and hacking, 15 in thickness 4. 9 thick paper-faced gypsum board, screwed by self-tamping thread firmly 5. Light steel strut joist, concave 27*60*0.63, c to c = width of the board 6. Light steel medium joist, concave 27*60*0.63, c to c = length of the board 7. Light steel large joist, concave 27*60*0.63, c to c < 1200 6. 08 hanging bar, two-way hanging point, c to c 900 to 1200 7. R.C.slab with 06
Roof		
Roof 1	Cement tile (with people on the top)	<ol style="list-style-type: none"> 1. Cement tile surface, 20 in thickness, pointing with dry cement 10 wide seams to be provided every 3M*6M, filled with 1:3 lime mortar 2. Neat cement with some water 3. Cement mortar binding course with 107 glue, 25 in thickness, (proportion: 1:3 cement mortar with 15% 107 glue)

Finish Technical Specifications (No.7)

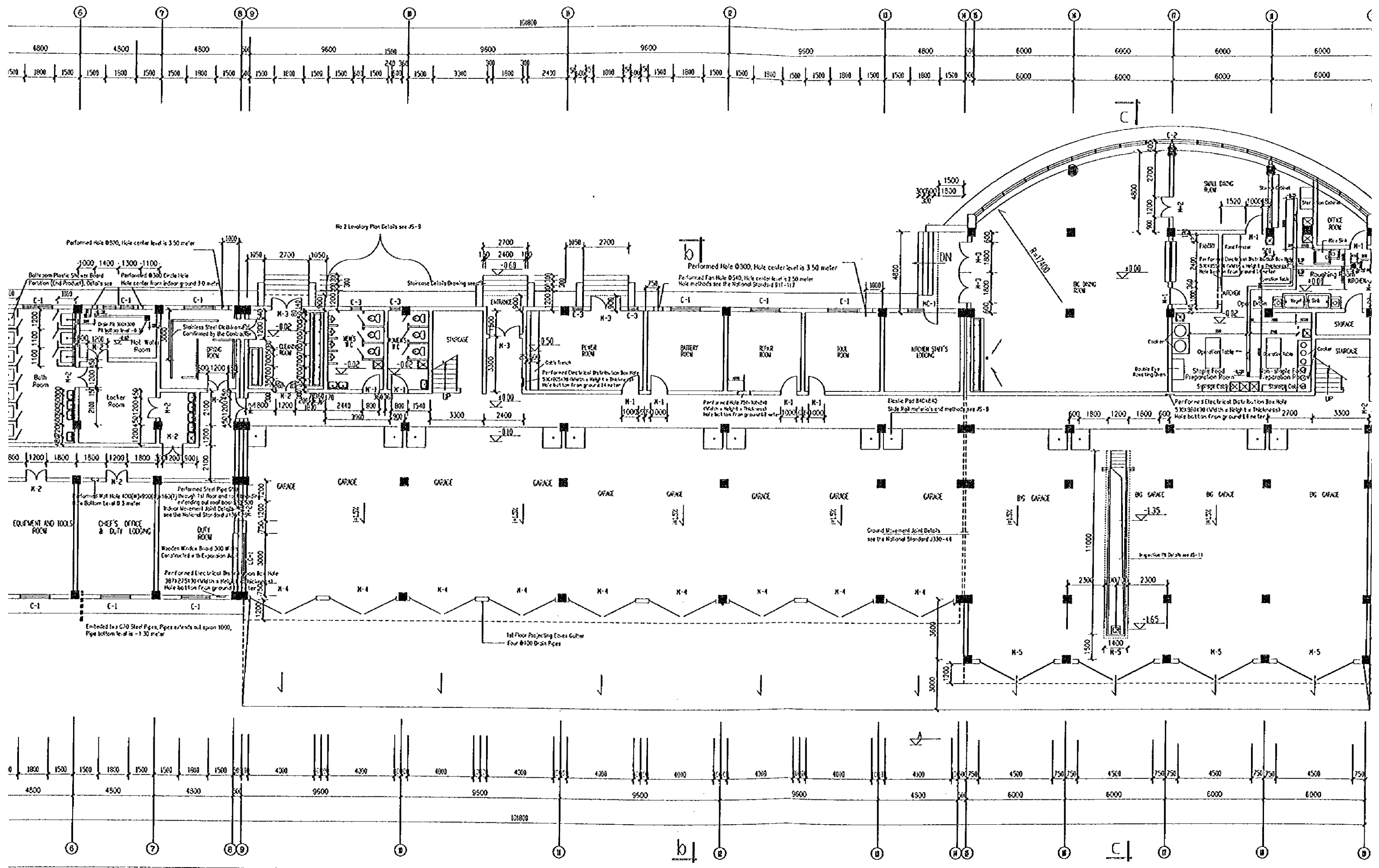
No.	Surface	Structural Practice
Roof		
Roof 1	Cement tile	4. water-proof course EPDM rolling material 5. 1:2.5 cement mortar leveling course with a thickness of 20 6. 1:8 cement-pearlite thermal insulating layer, 30 thick at the lowest point, 2% slope densely vibrated and traweled on the surface (as code exhaust groove to be provided, PVC exhaust pipe, space of exhaust holes not more than 6M) 7. 1:3 cement mortar leveling course with a thickness of 20 8. R.C.slab
Exterior Wall		
Ex. Wall 1	Facing tile	1. 1:1 cement mortar (fine sand) painting 2. 6-12 thick facing tile 3. 1:0.3:2 cement lime mortar binding course with a thickness of 12 (with 15% 107 glue) 4. A layer of neat cement paste (with 3%~5% 107 glue) 5. 1:3 cement mortar, 8 in thickness, to be bedded and hacked or scored

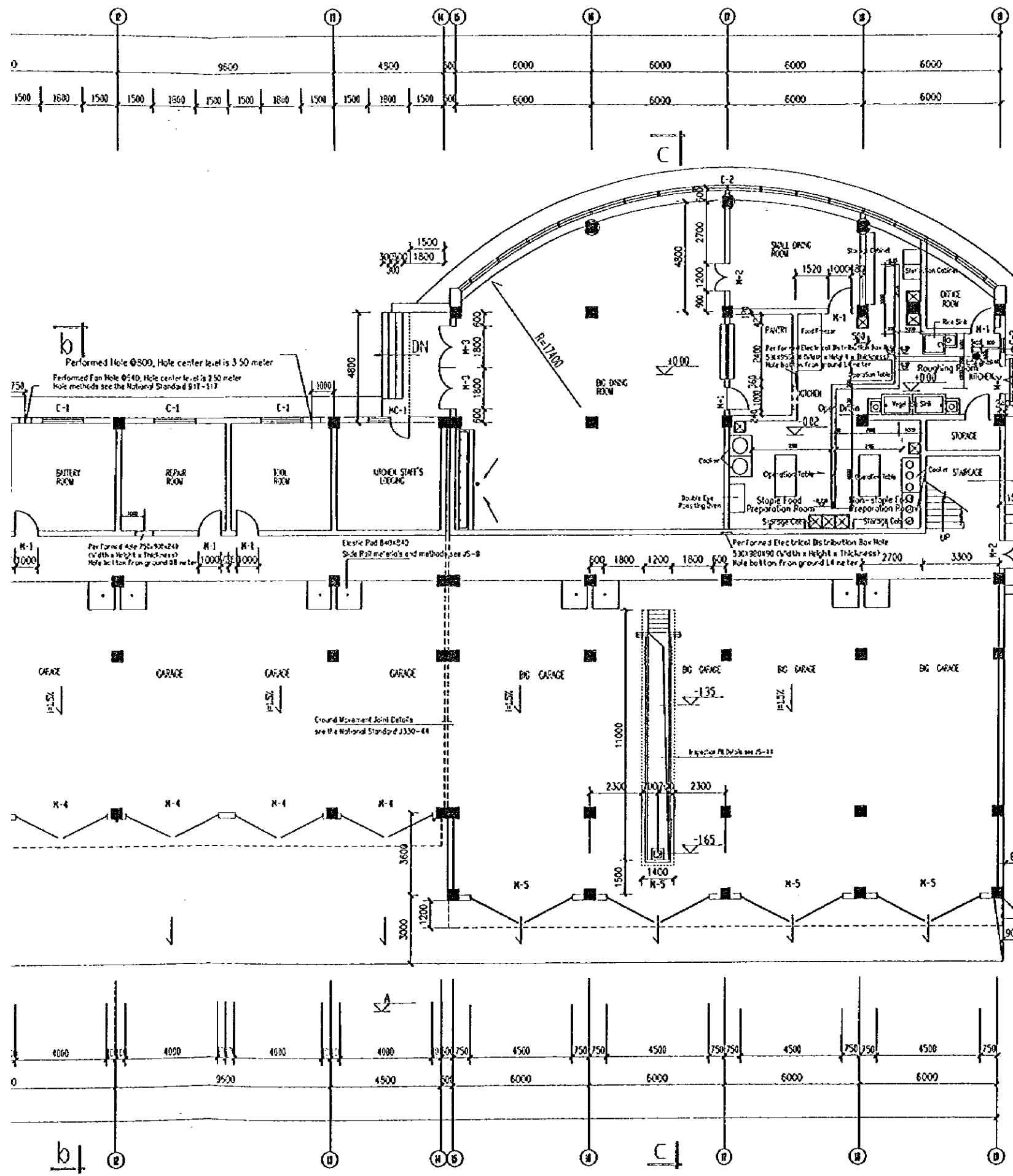


LEGEND

- SIDE WALK
- BUILDING
- PAVEMENT OF CONCRETE PRE-CAST BLOCK
- DRAIN TANK
- BOUNDARY WALL
- ELEVATION OF IN-DOOR
- ELEVATION OF LEVEL GROUND OR ELEVATION OF ROAD INCLINED POINT
- LONGITUDINAL SLOPE OF ROAD(%)
- SLOPE LENGTH(M)

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
PLOT PLAN	
SCALE 1:10 1:25 1:40	DWG 41-AS
JAPAN INTERNATIONAL COOPERATION AGENCY	

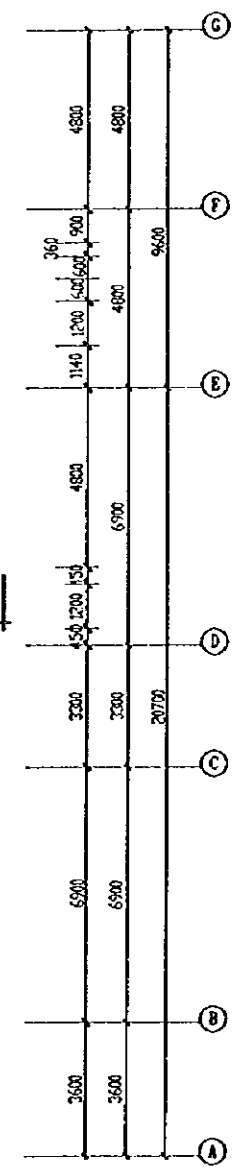




Note: Exterior wall laid by porous brick, Thickness is 240 mm

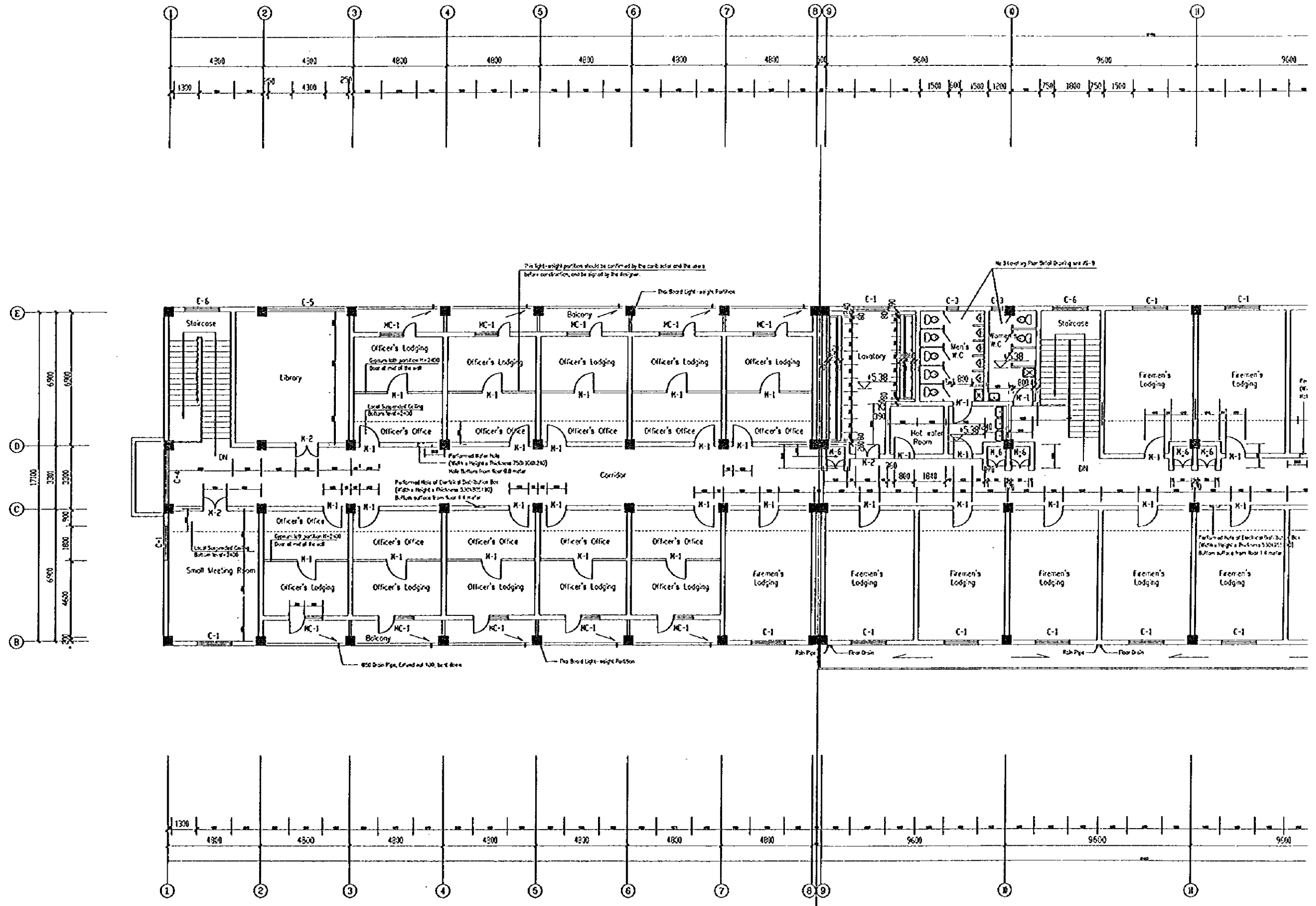
Interior wall laid by microporous brick, Thickness is 190 mm

	Area
1st Floor	$102.3 \times 17.6 + 24.5 \times 3.6 + 24.5 \times 5.04 + 75.86 = 2088.02$
2nd Floor	$102.3 \times 17.6 = 1800.48$
Total	$2088.02 + 1800.48 = 3888.5$

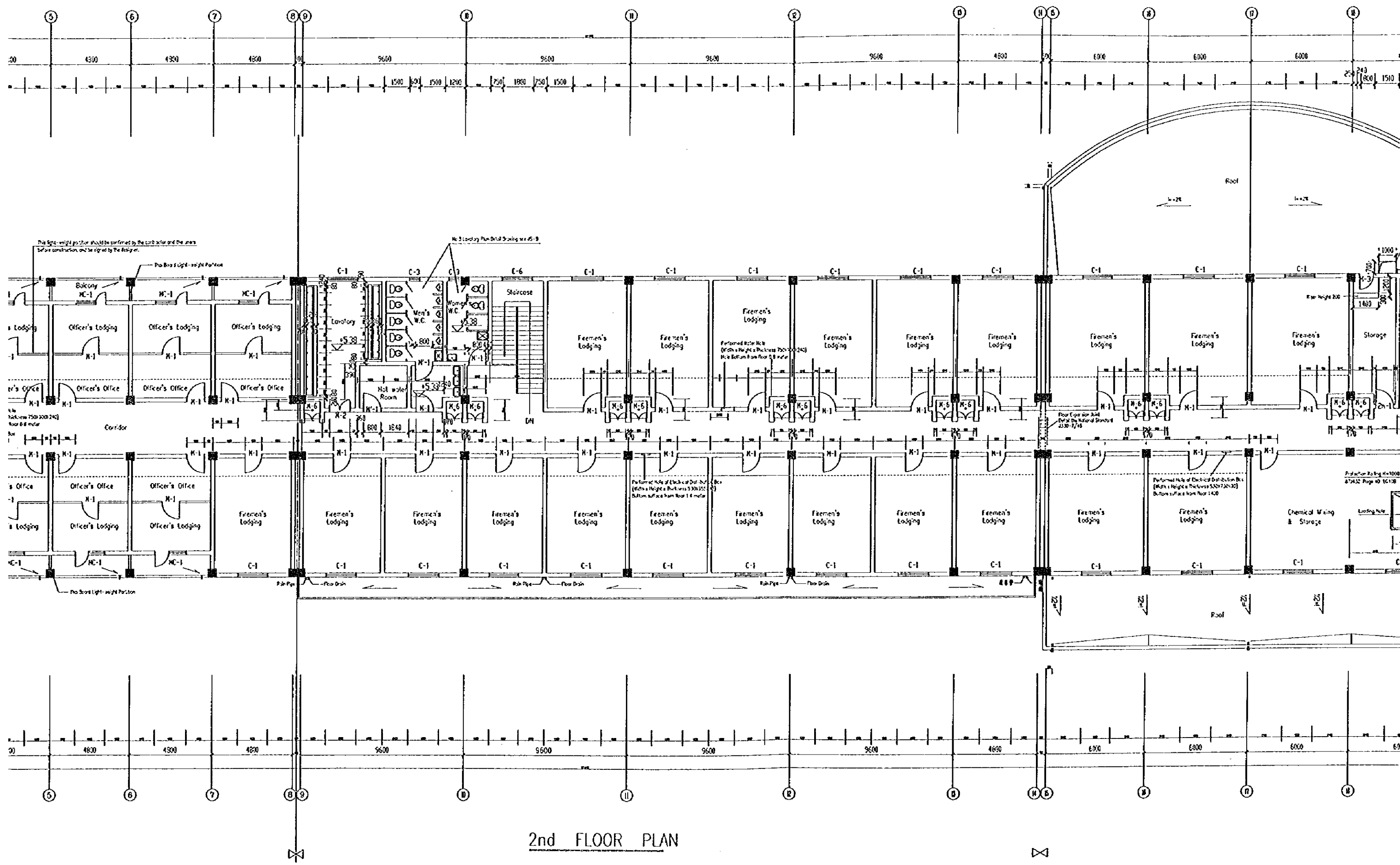


1st FLOOR PLAN

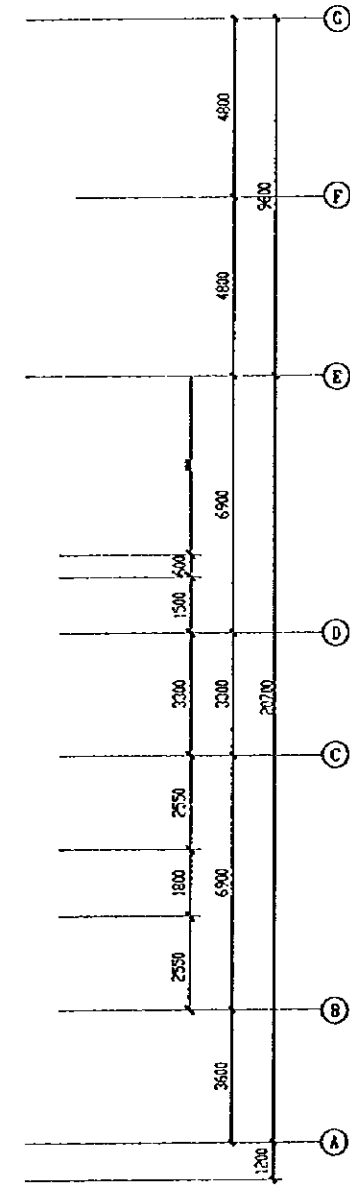
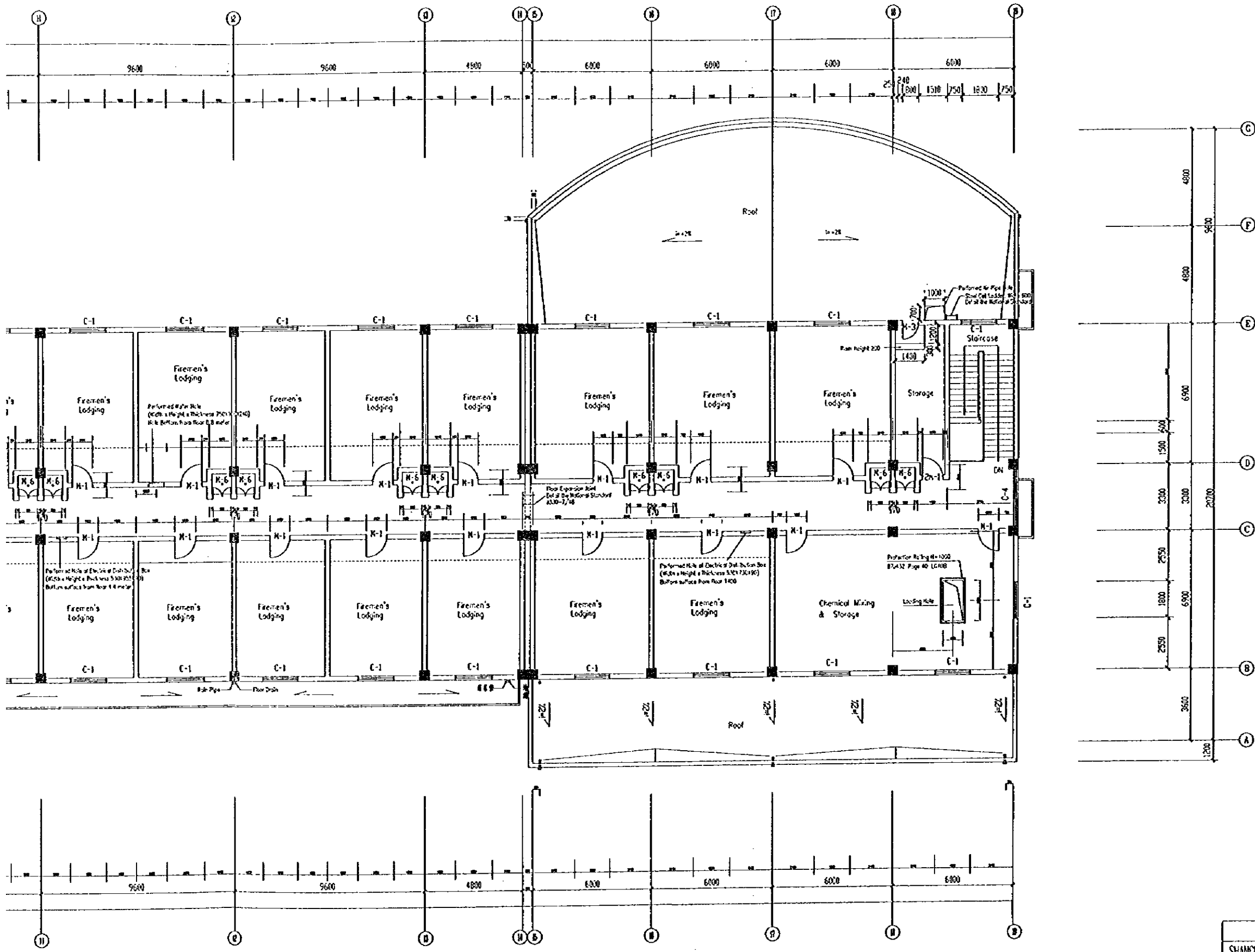
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
FIRST FLOOR PLAN	
SCALE	DWG 41-A7
JAPAN INTERNATIONAL COOPERATION AGENCY	



2nd FLOOR PLAN

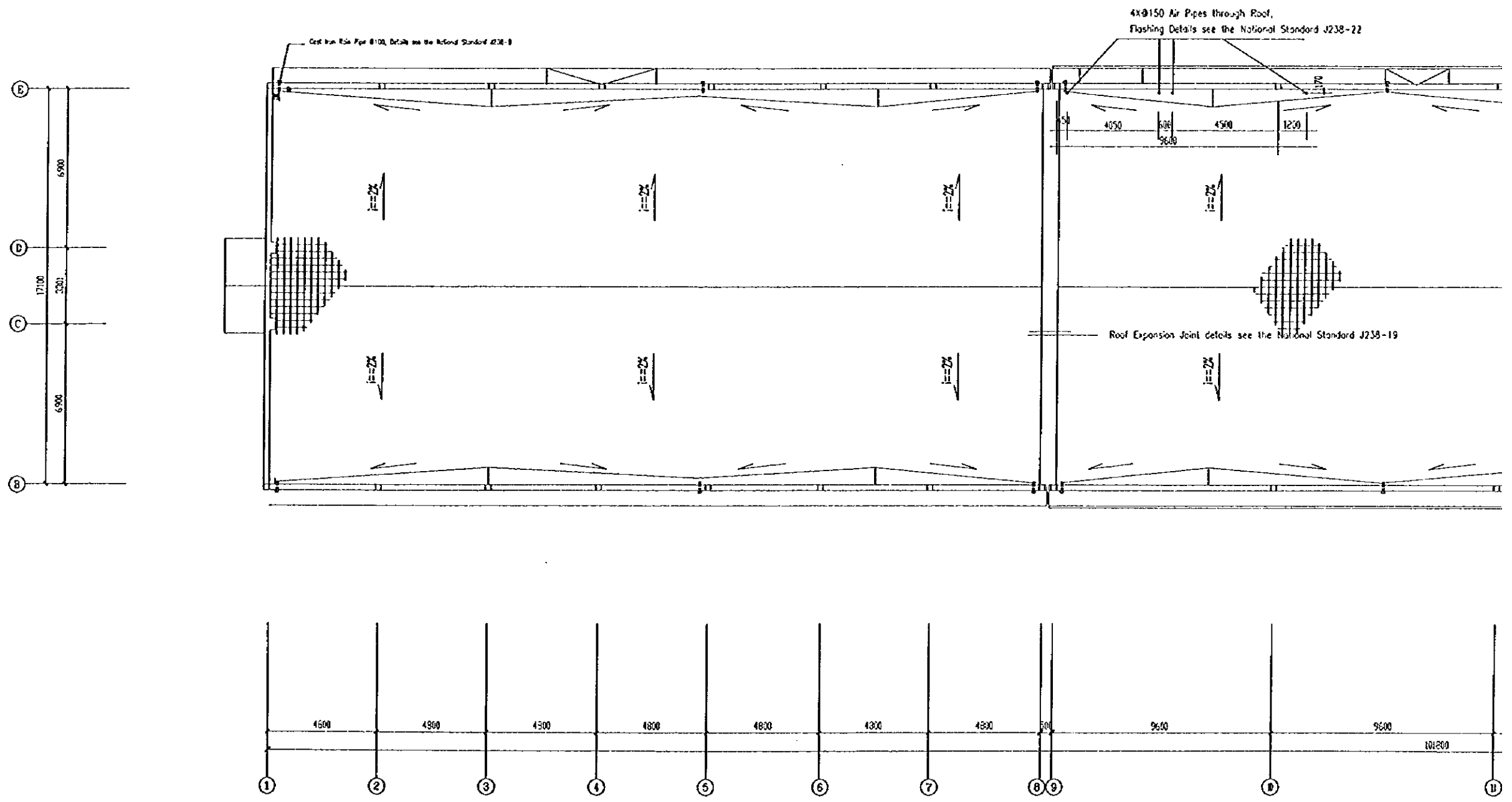


2nd FLOOR PLAN



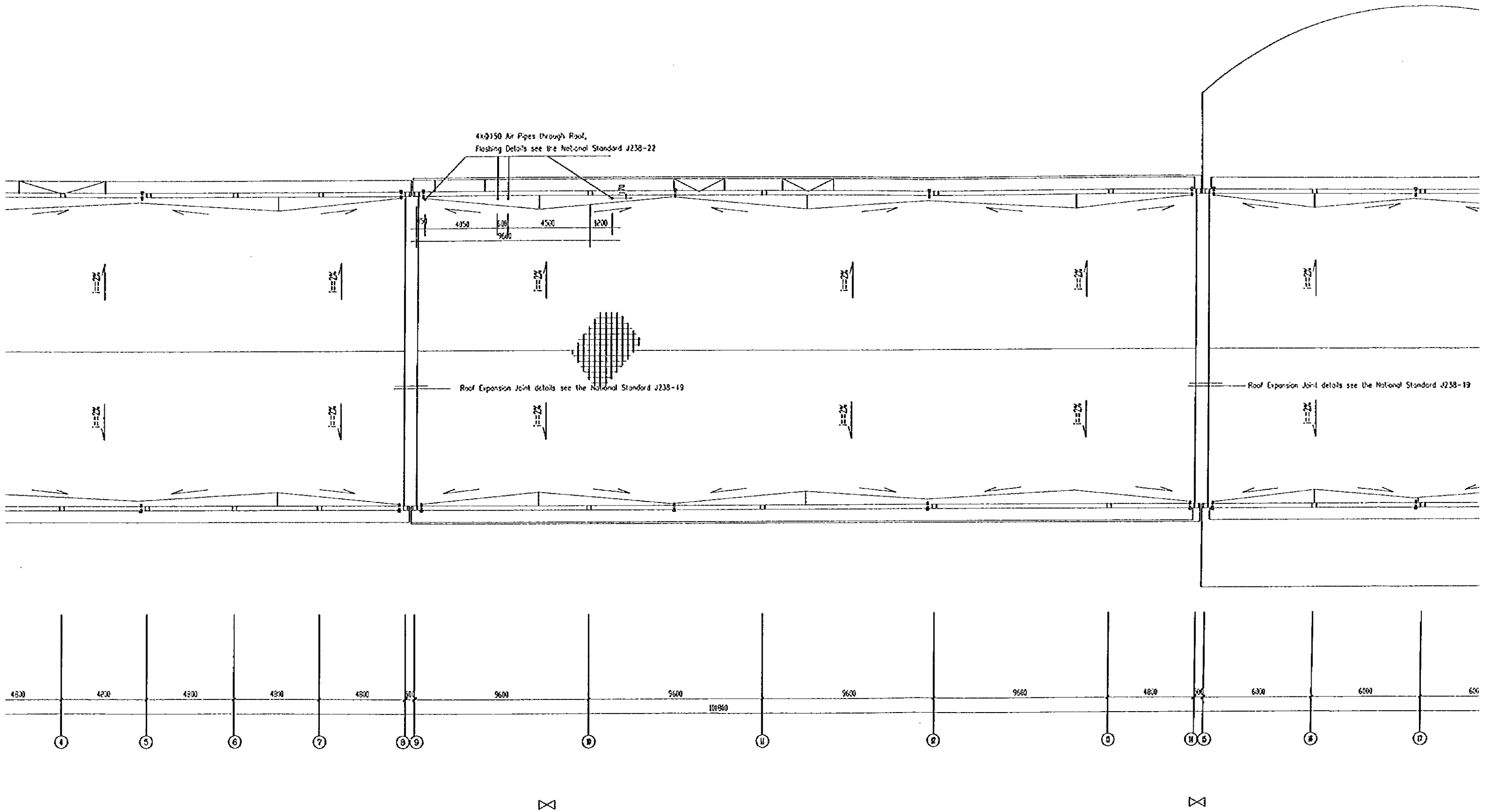
JOR PLAN

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
SECOND FLOOR PLAN	
SCALE	DWG 41-A3
JAPAN INTERNATIONAL COOPERATION AGENCY	



DESIGN INTRODUCTION

1. The project is of Fire/crash Rescue Engineering for Shanhai Pudong International Airport-- fire/crash rescue station. For plane position and +0.00 related to absolute elevation see mater plan of the project.
2. Design Basis:
The preliminary design of the project, approved document for the preliminary design and construction standard of safety Facilities for Civilian Aviation Transport Plane Airport
3. Fire rating of the build
4. Unless otherwise specified be adopted.
5. Pay attention to coordination acceptance as per the



INTRODUCTION

1. The project is designed by Shanghai Pudong
 Airport Engineering for Shanghai Pudong
 Airport rescue station. For plane position
 and elevation see master plan of the project.

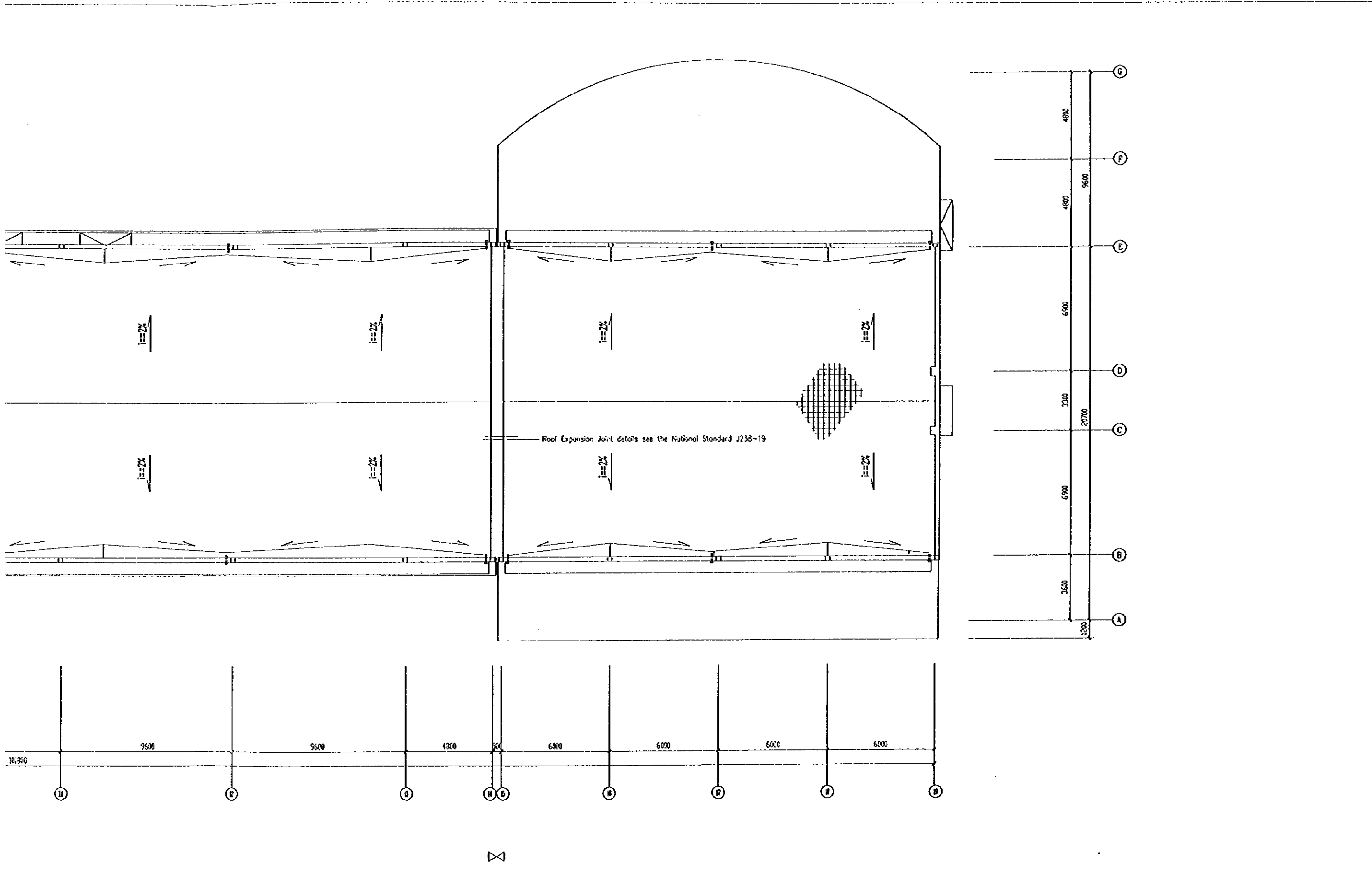
2. Design Basis:

The preliminary design of the project, approved document for the preliminary design and construction standard of safety facilities for Civilian Aviation Transport Plane Airport

3. Fire rating of the building: Class 2

- 4. Unless otherwise specified National Common Standard drawings will be adopted.
- 5. Pay attention to coordination with other trades and carry out acceptance as per the relative regulation of the state.

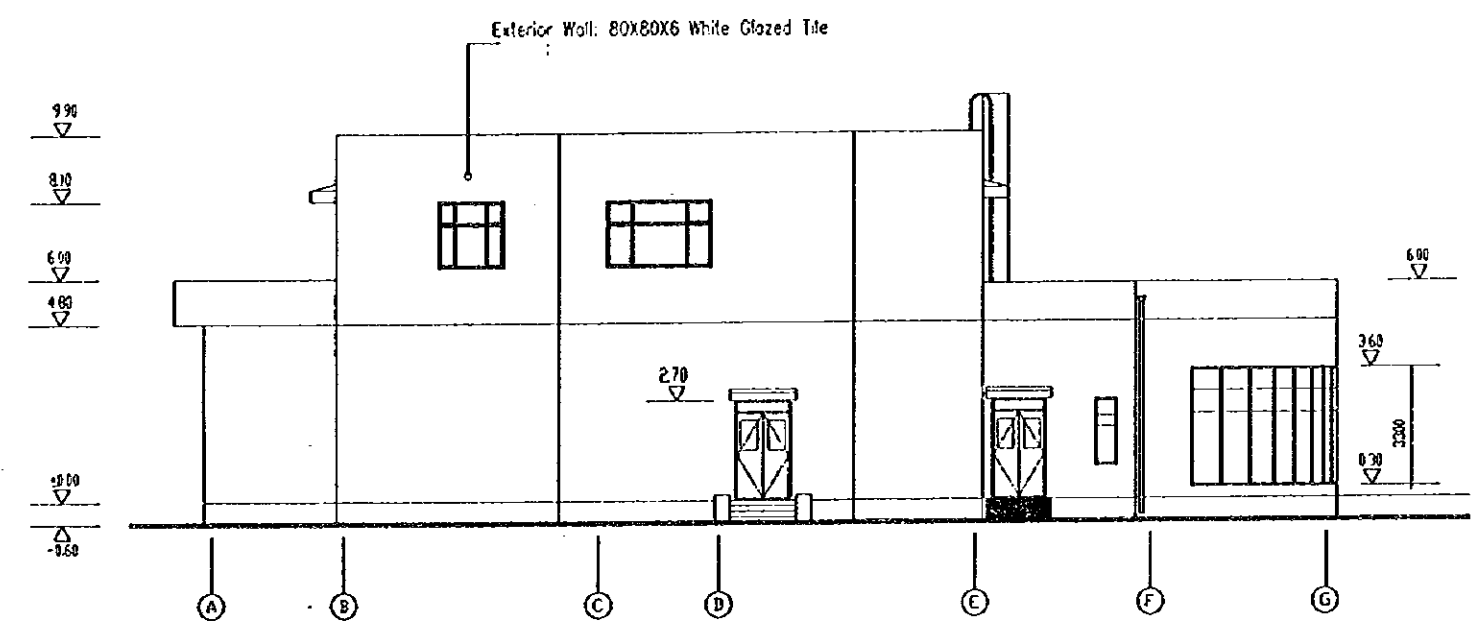
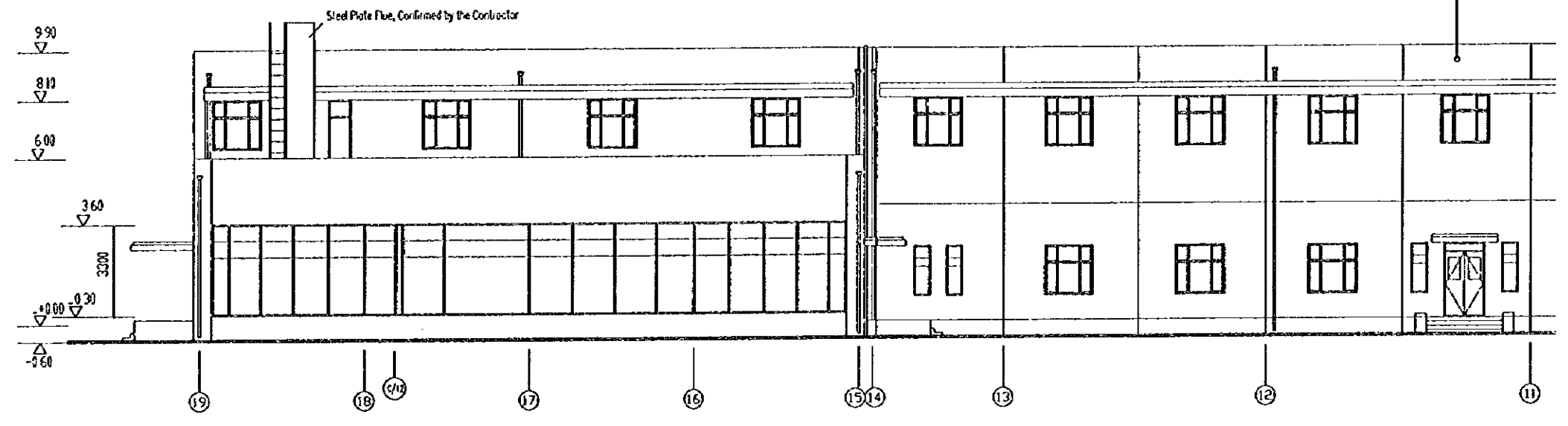
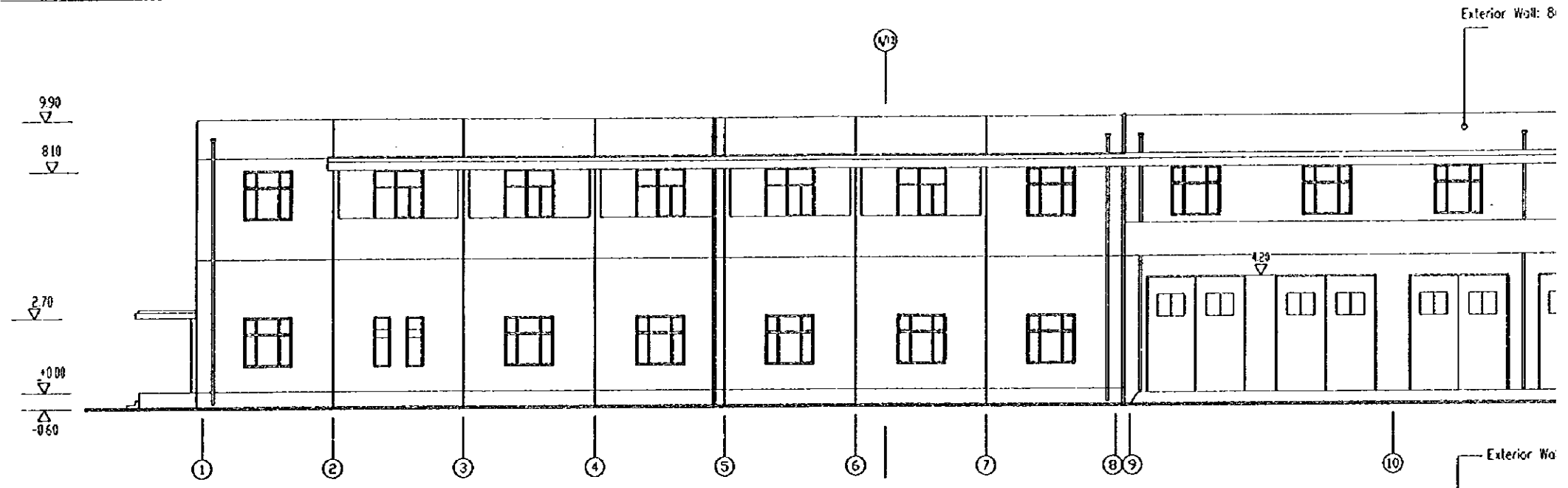
ROOF PLAN 1:100



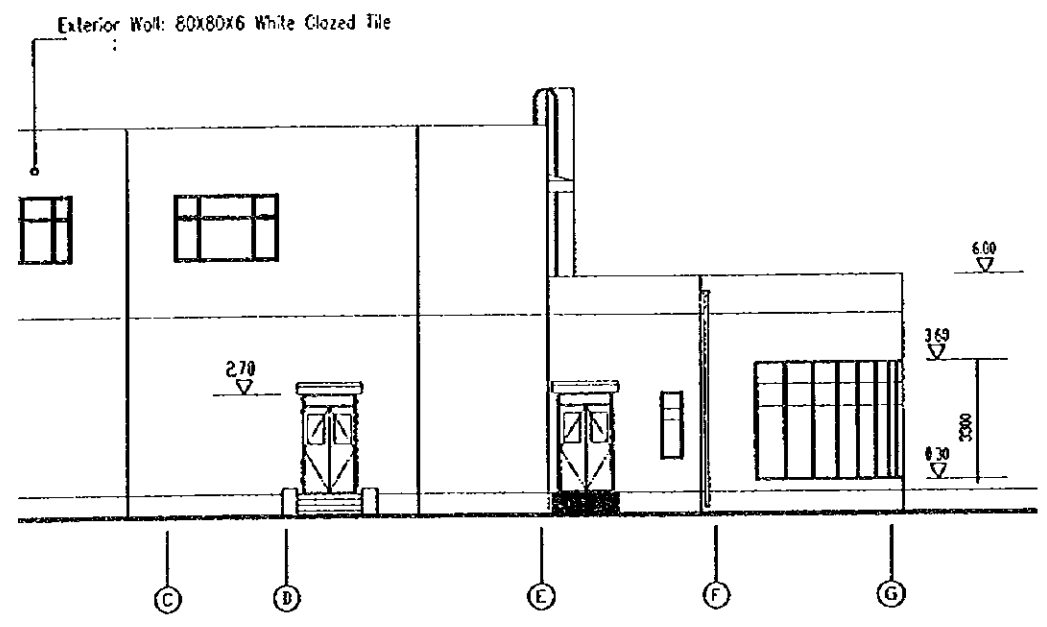
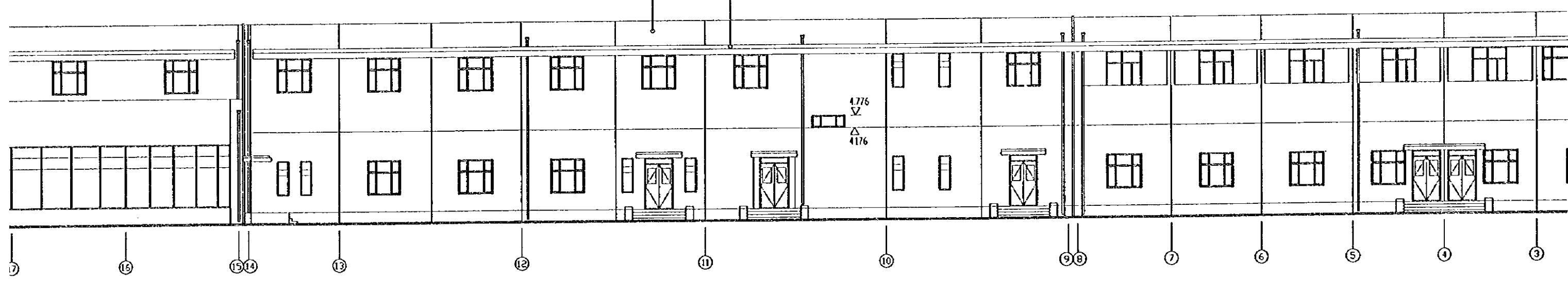
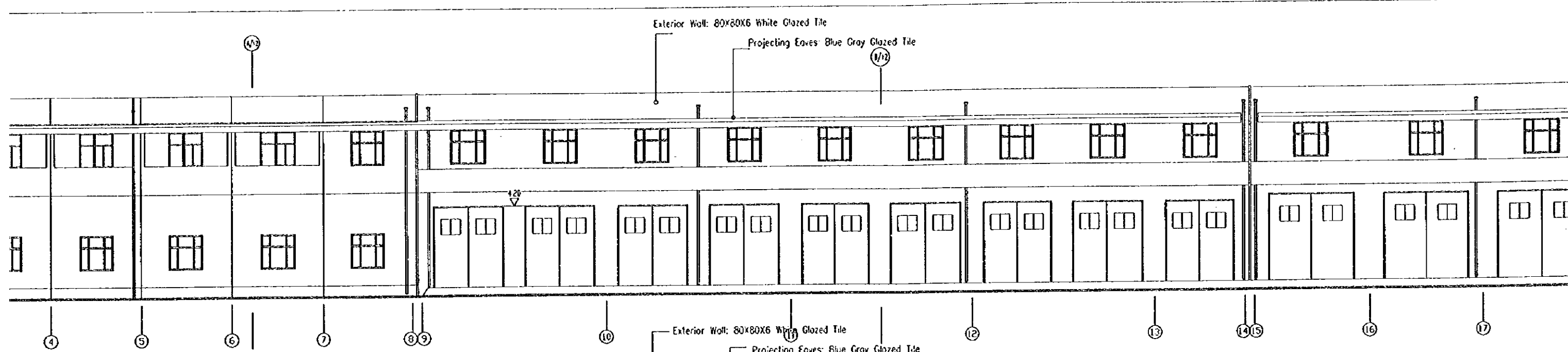
of the building: Class 2
 otherwise specified National Common Standard drawings will
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 tion to coordination with other trades and carry out
 ce as per the relative regulation of the state.

ROOF PLAN 1:300

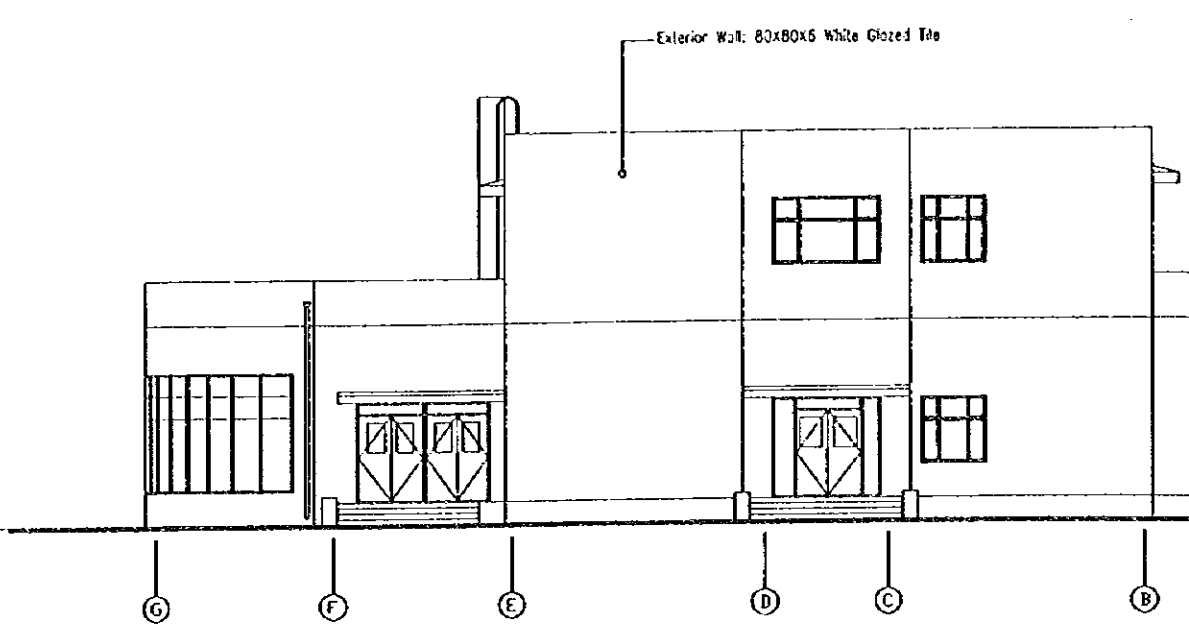
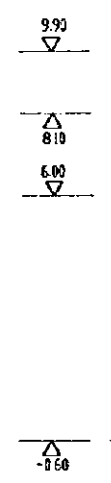
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
ROOF PLAN	
SCALE 1:300	DWG 41-A3
JAPAN INTERNATIONAL COOPERATION AGENCY	



©© ELEVATION 1:100

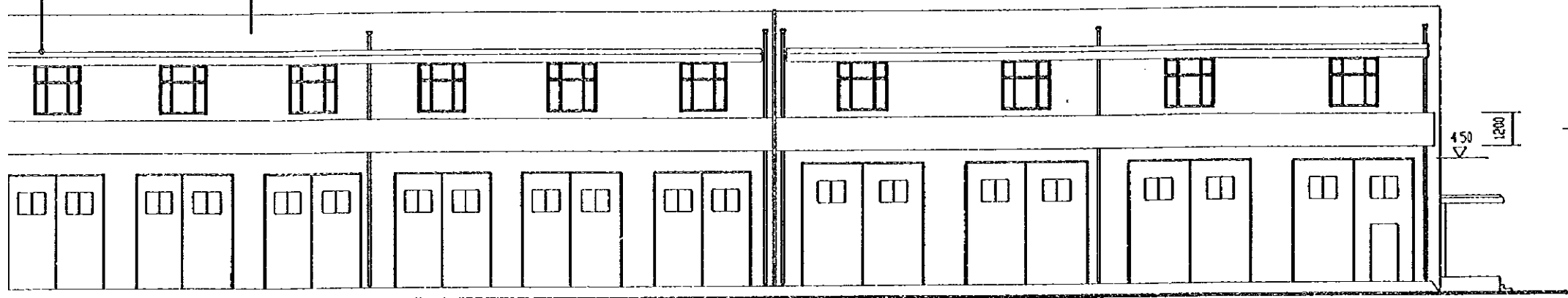


©ELEVATION 1:100



80X80X6 White Glazed Tile

Projecting Eaves: Blue Gray Glazed Tile



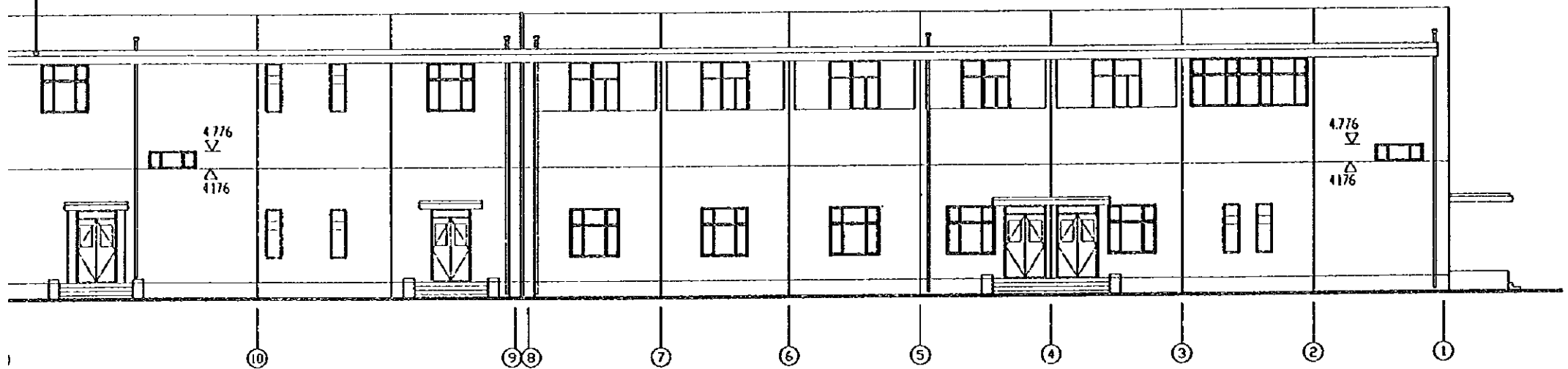
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4.50

◎◎ELEVATION 1:100

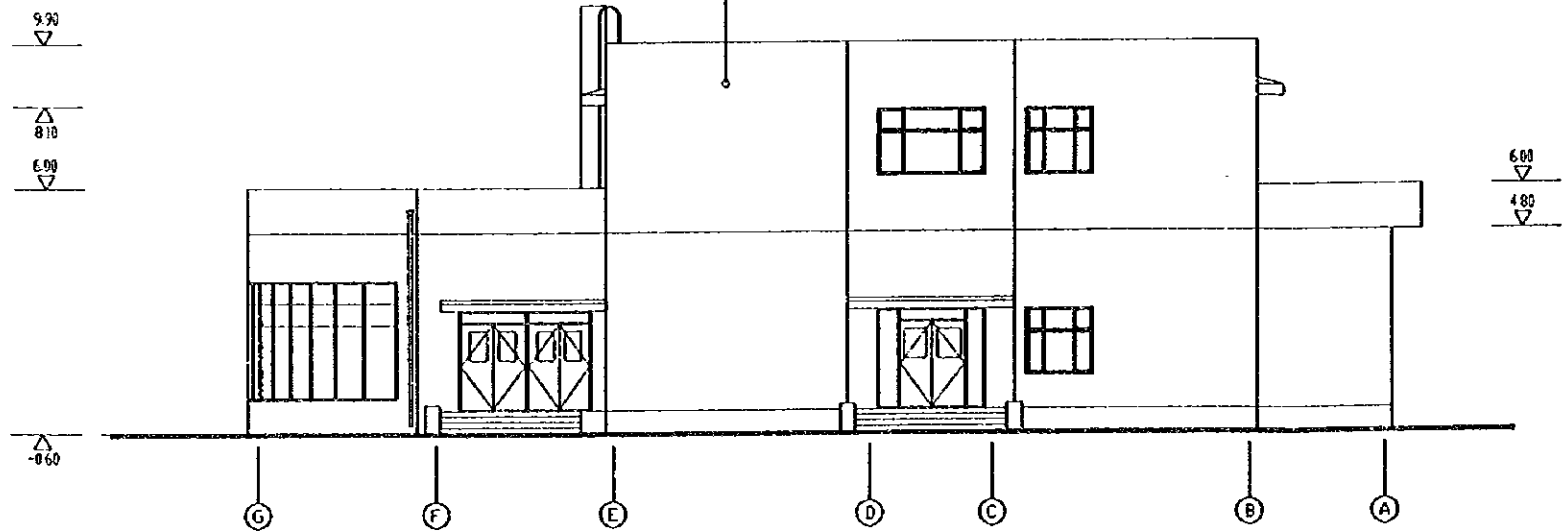
Wall: 80X80X6 White Glazed Tile

Projecting Eaves: Blue Gray Glazed Tile



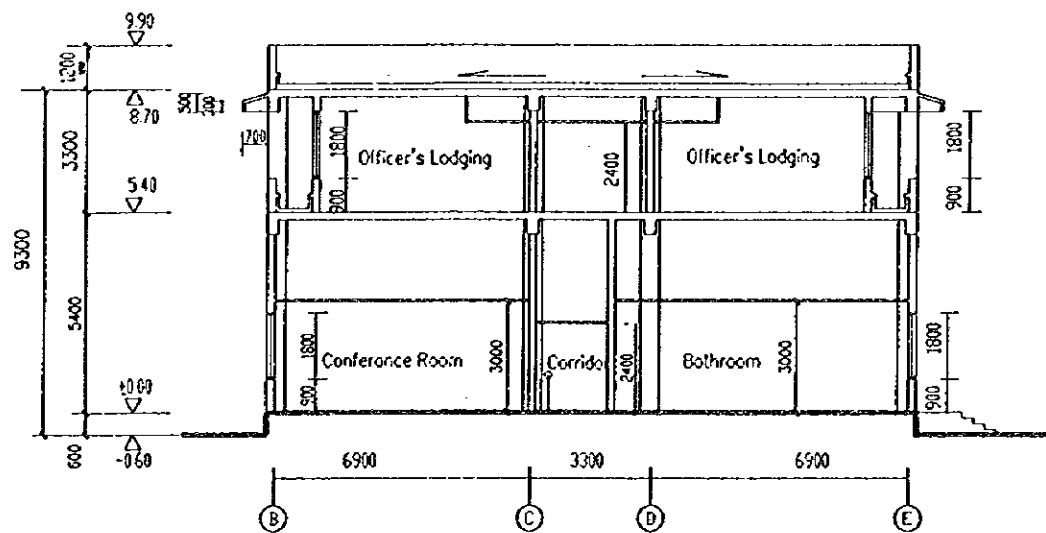
◎◎ELEVATION 1:100

Exterior Wall: 80X80X6 White Glazed Tile

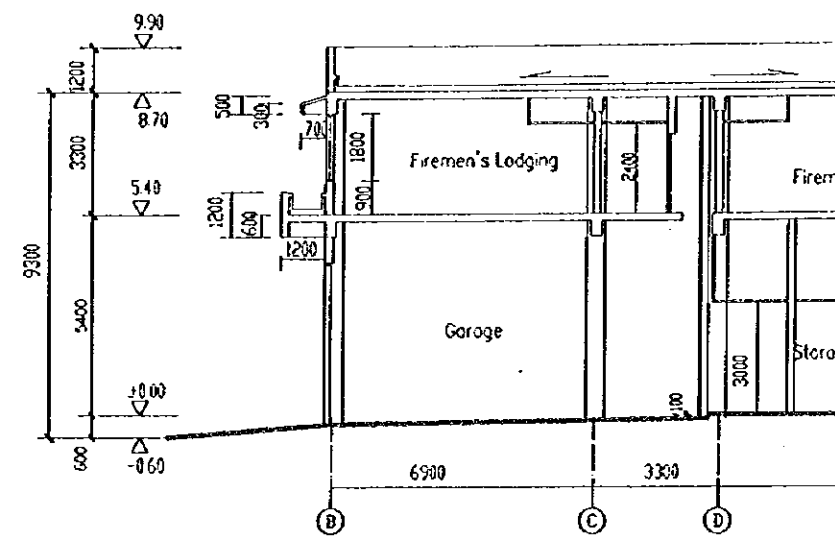


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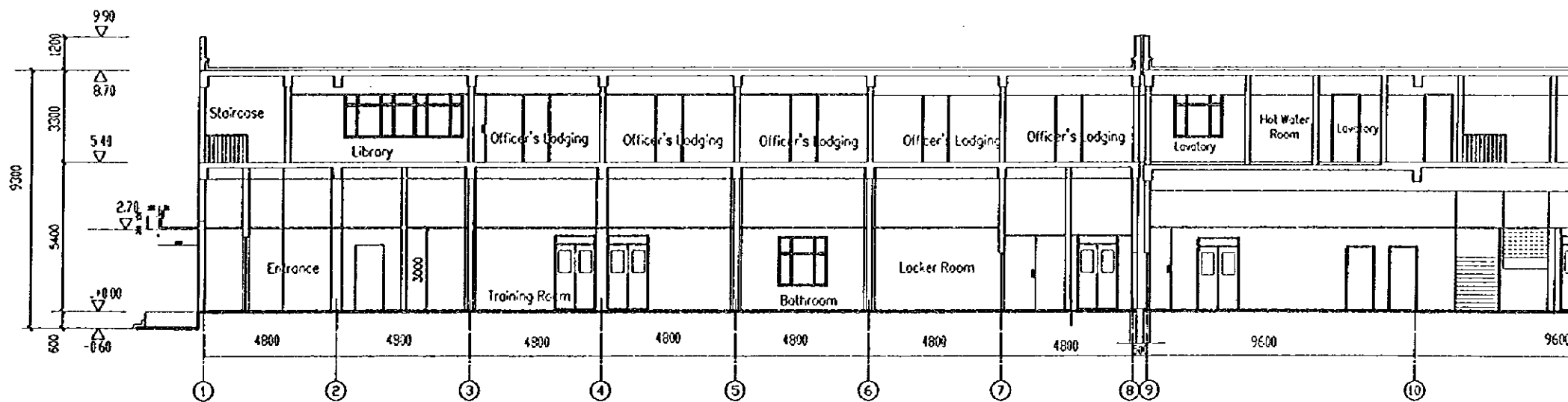
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT (SEPTEMBER 1997)	
ELEVATIONS	
SCALE	DWG 41-A10
JAPAN INTERNATIONAL COOPERATION AGENCY	



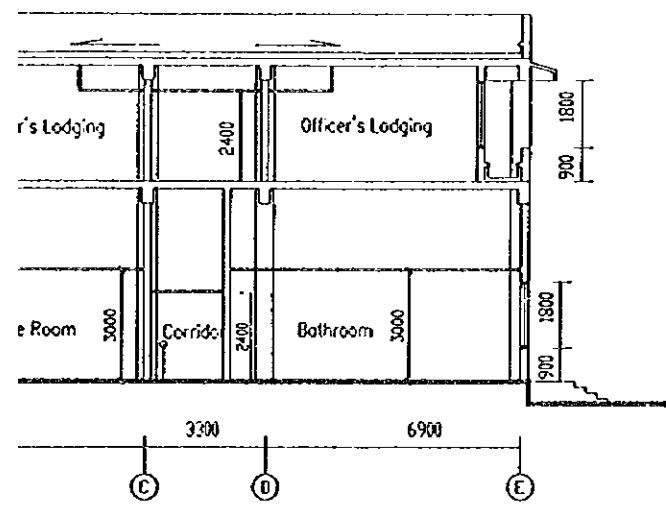
A-A SECTION 1:100



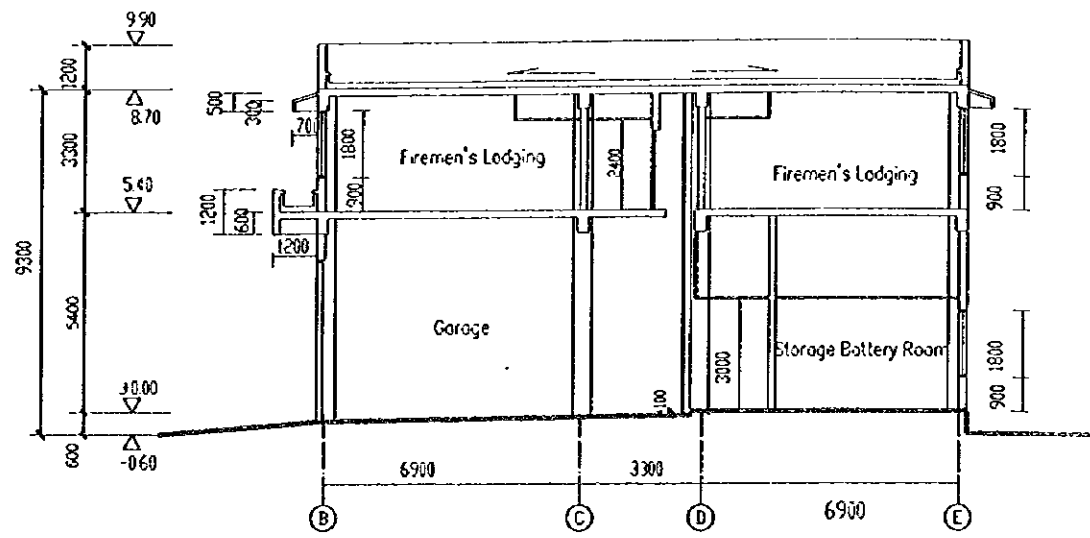
B-B SECTION 1:100



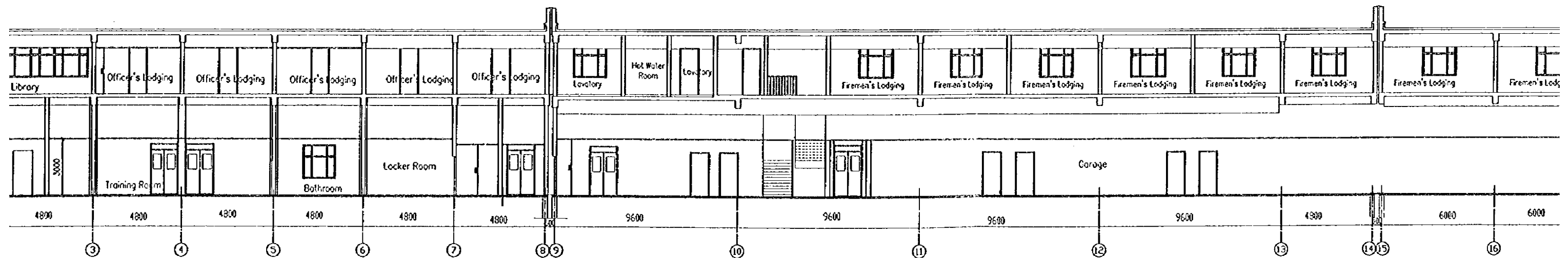
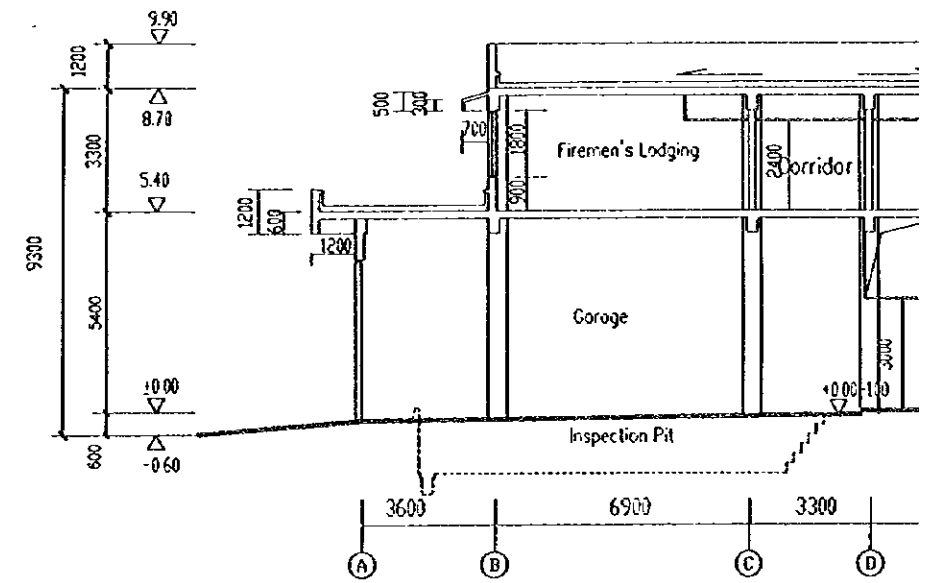
D-D SECTION 1:100



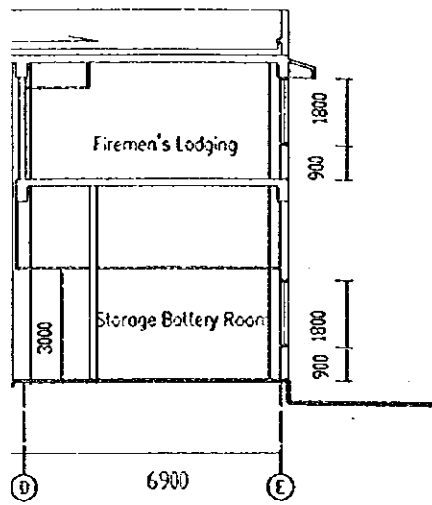
A-A SECTION 1:100



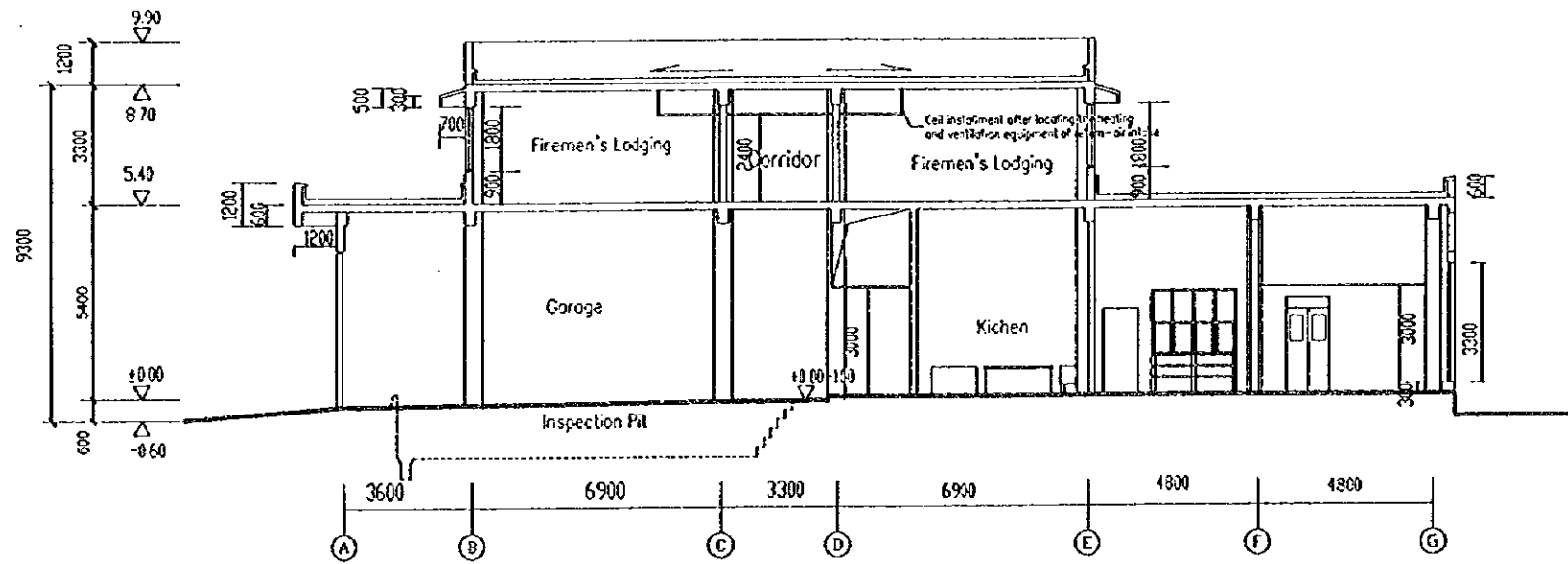
B-B SECTION 1:100



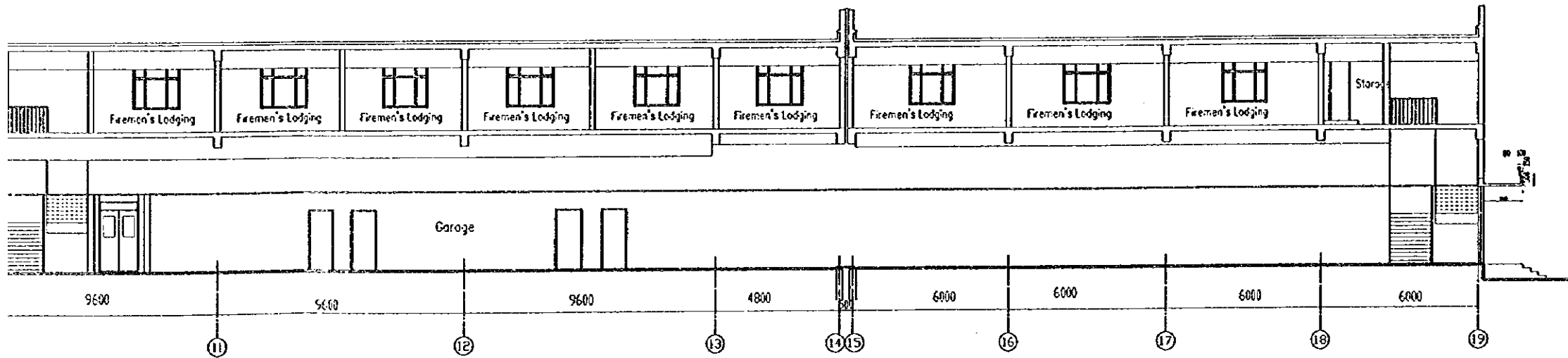
D-D SECTION 1:100



1:100

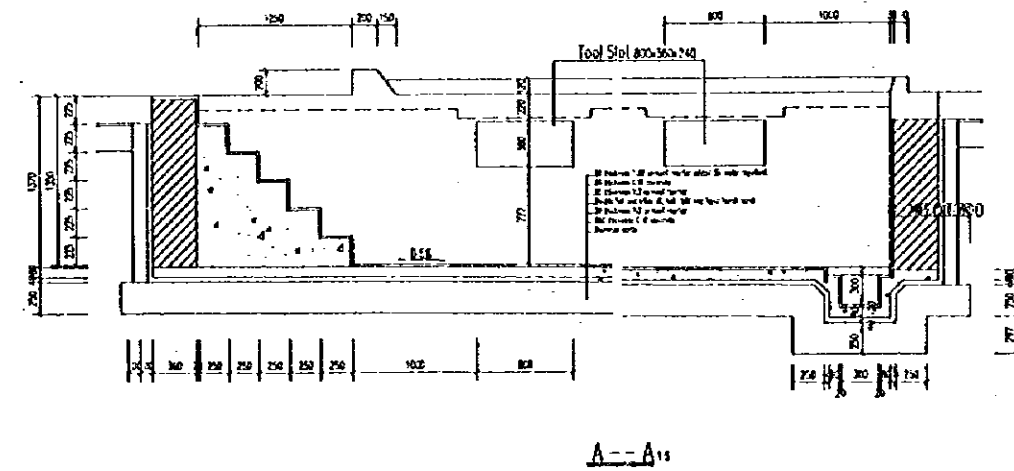
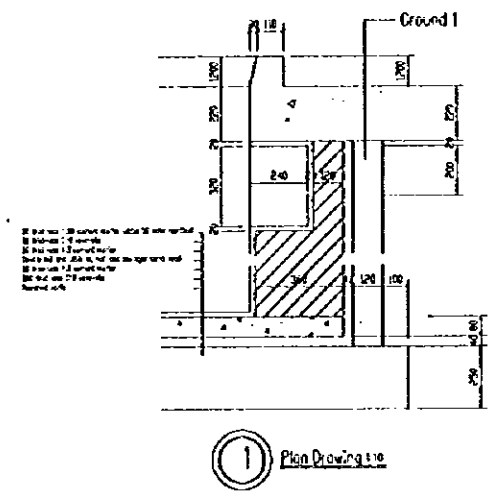
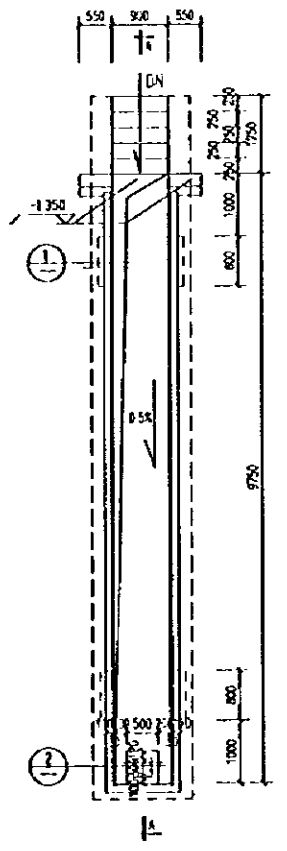
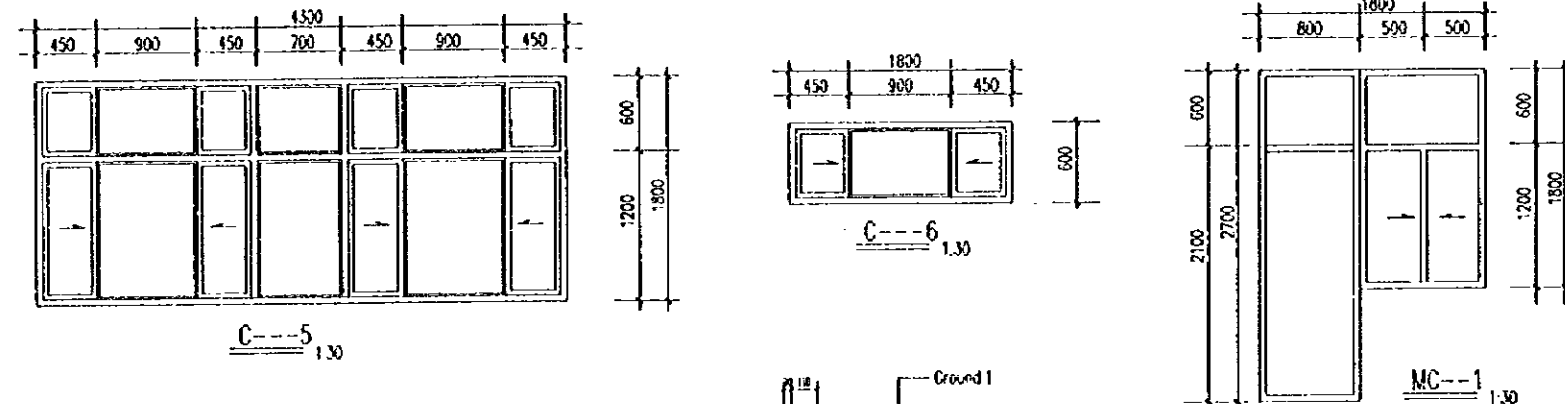
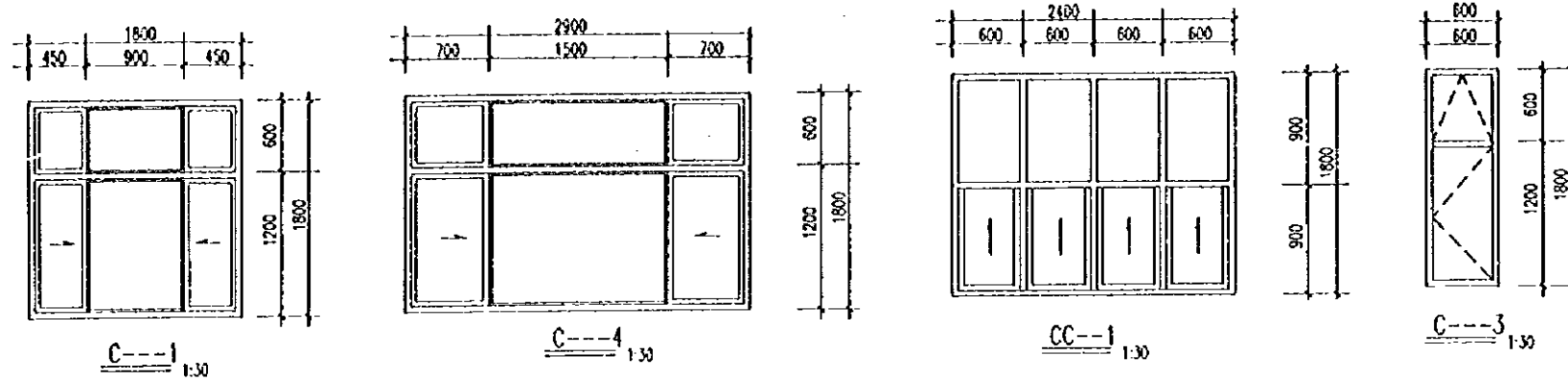


C-C SECTION 1:100



1:100

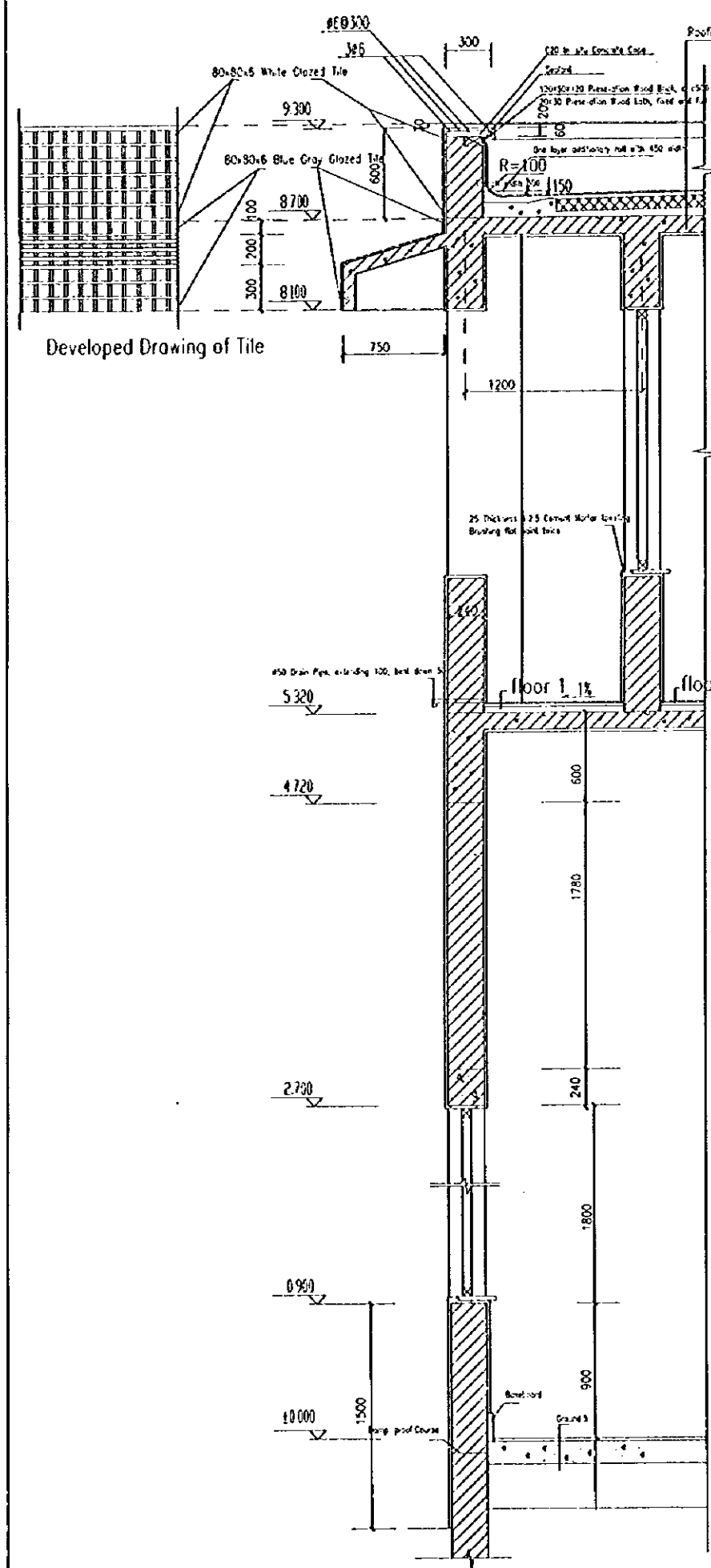
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUODONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
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SCALE	DWG 41-A11
JAPAN INTERNATIONAL COOPERATION AGENCY	



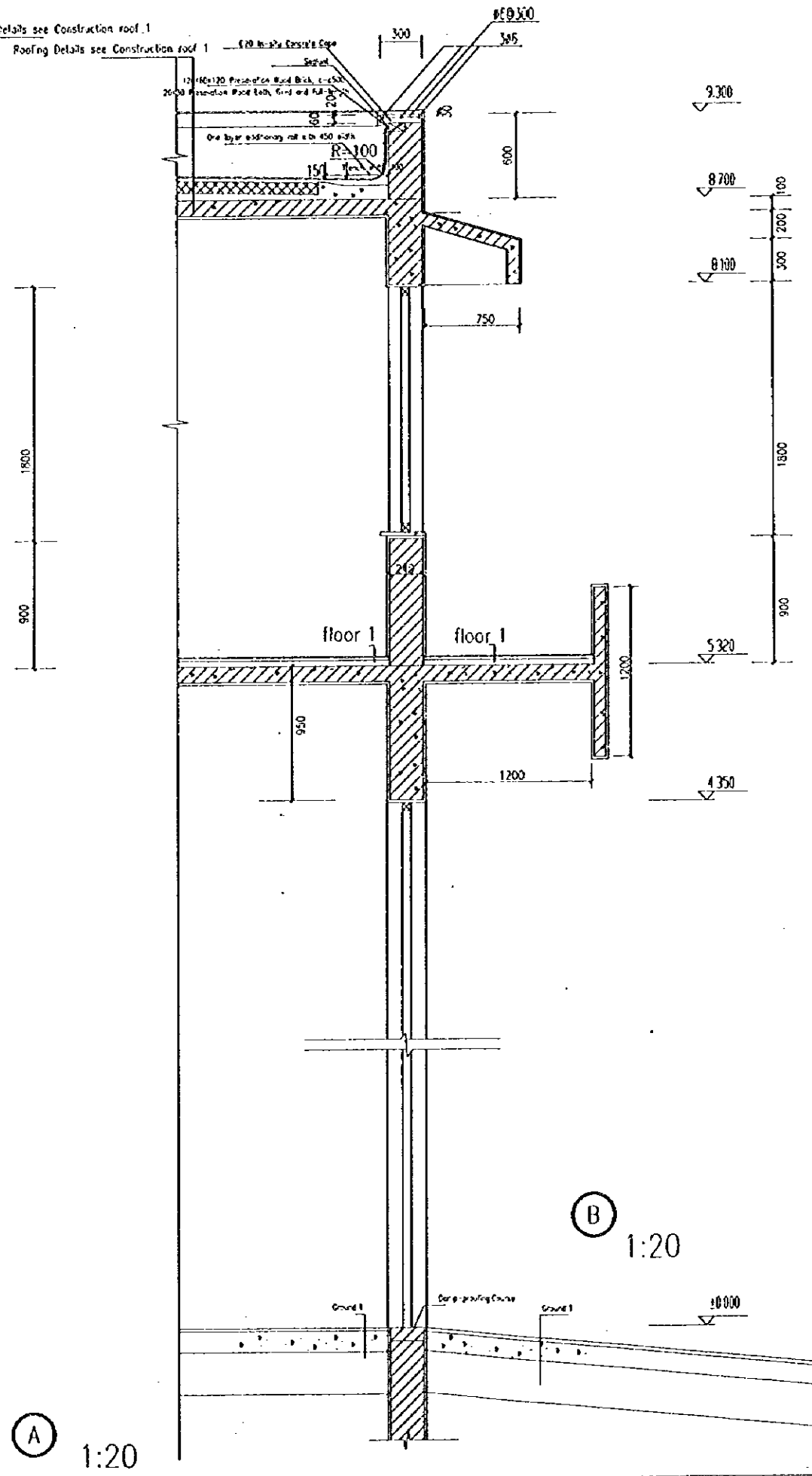
SCHEDULE OF DOOR & WINDOW

Number	Opening Size (W x H)	Collective Drawings	Quantity	Remarks
First Floor				
C---1	1800 x 1800		14	Aluminium Alloy Sliding Window
C---2			1	Aluminium Alloy French Window
C---3	600 x 1800		9	Aluminium Alloy Casement Window
CC---1	2400 x 1800		1	Aluminium Alloy Sliding Window
LC---1	3000 x 1800	91J604--TC3018	1	Aluminium Alloy Sliding Window
MC---1	1800 x 1800		1	Aluminium Alloy Door And Window
M---1	1000 x 2400	94J611--J23	7	Casement Wood Door
M---1	800 x 2400	94J611--JM	5	Casement Wood Door
M---2	1200 x 2400	94J611--JM49	17	Casement Wood Door
M---22	1200 x 2700	91J604--PM1227	2	Aluminium Alloy Casement Door
M---3	1800 x 2700	91J604--PM1227	8	Aluminium Alloy Casement Door
M---4	4000 x 4200		9	Casement Wood-and-Steel Door
M---5	4500 x 4500		4	Casement Wood-and-Steel Door
Second Floor				
C---1	1800 x 1800		26	Aluminium Alloy Sliding Window
C---3	600 x 1800		2	Aluminium Alloy Casement Window
C---4	2900 x 1800		2	Aluminium Alloy Sliding Window
C---5	4300 x 1800		1	Aluminium Alloy Sliding Window
C---6	1800 x 600		2	Aluminium Alloy Sliding Window
MC---1	1800 x 1800		10	Aluminium Alloy Door And Window
M---1	1000 x 2400	94J611--J23	43	Casement Wood door
M---1	800 x 2400	94J611--JM	5	Casement Wood Door
M---2	1200 x 2400	94J611--JM49	3	Casement Wood Door
M---6	900 x 2100	94J611--JM37	13	Casement Wood Door

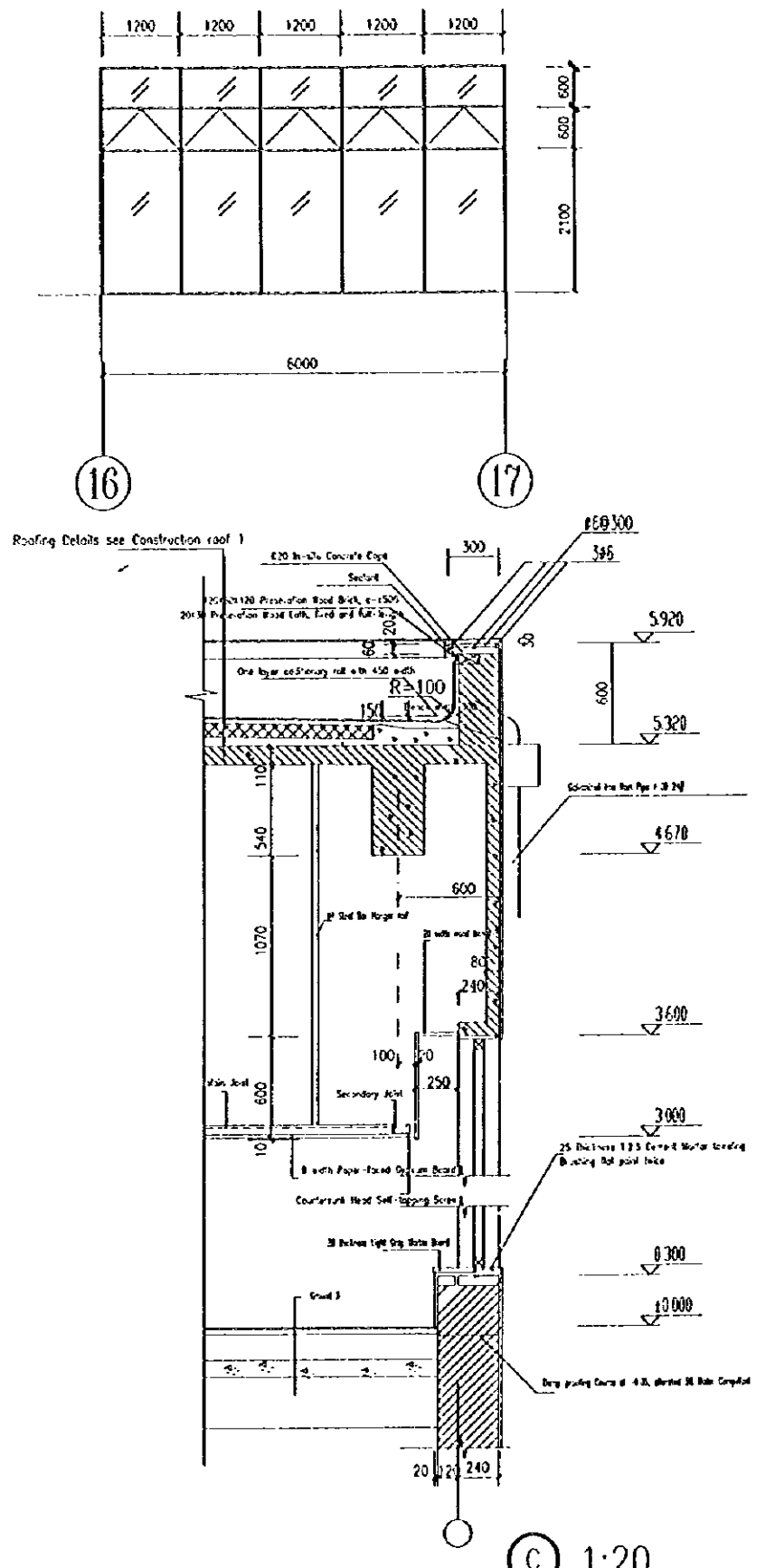
Notes:
 Door-- Unless otherwise specified all others will be wood casement doors which are coated with nature varnish on the surface. Aluminium alloy door, thickness 5mm to be coloured silver 70 series, Which will be install with light blue metallic-membrane plating glass. Wood-and-Steel gate with red paint will be used for parking lot. For type of the door see those recommended by local fire department.
 Window-- Silve 70 series aluminium alloy window with 5 thick light blue metallic membrane plating glass will be used



(A) 1:20

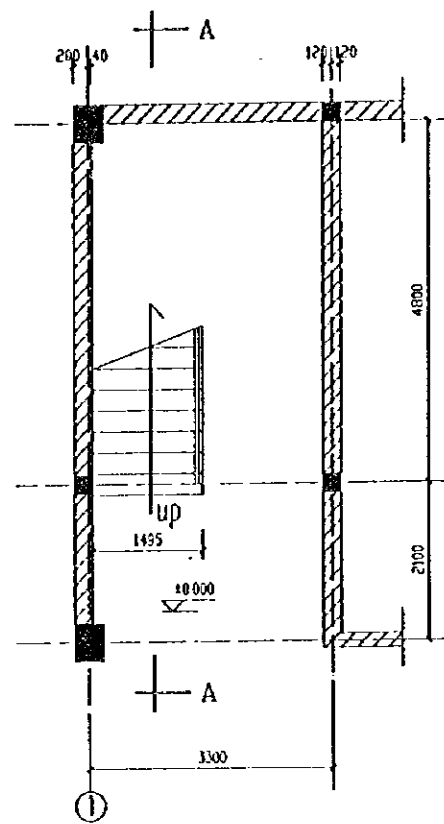


(B) 1:20

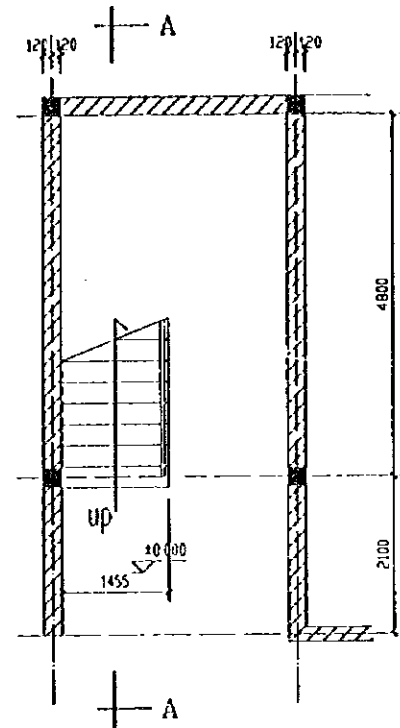


(C) 1:20

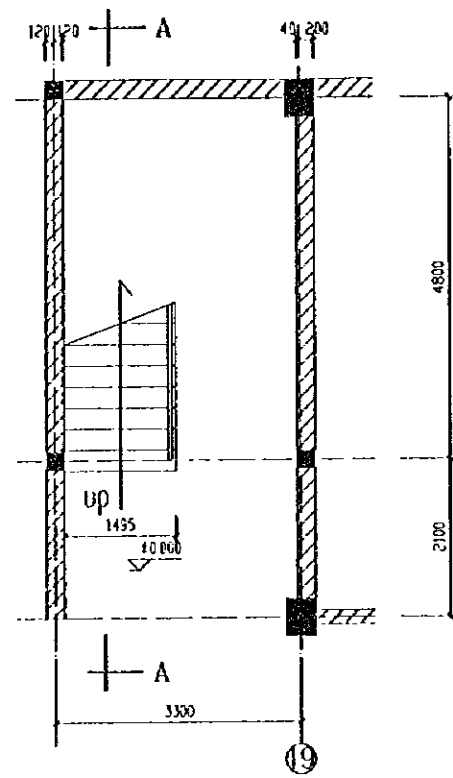
PEOPLE'S REPUBLIC OF CHINA	
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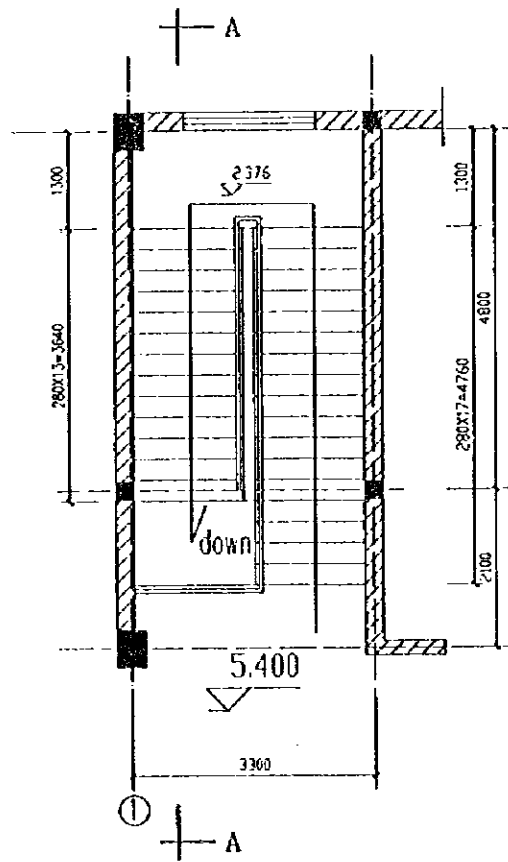
NO.1 1st FLOOR PLAN 1:50



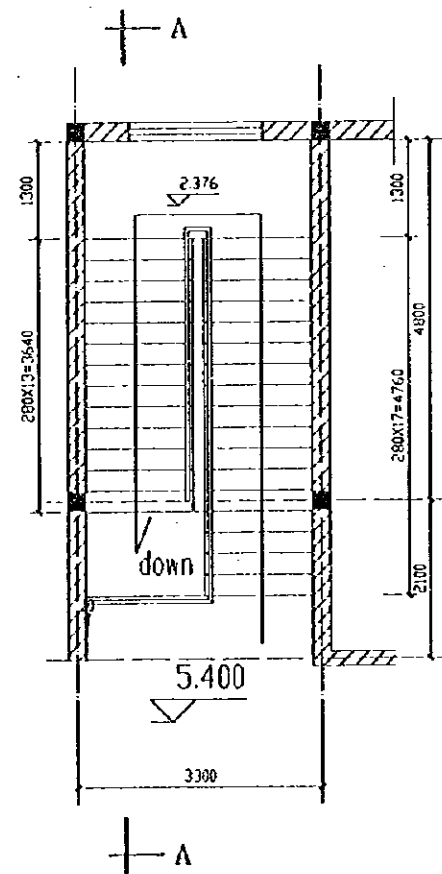
NO.2 1st FLOOR PLAN 1:50



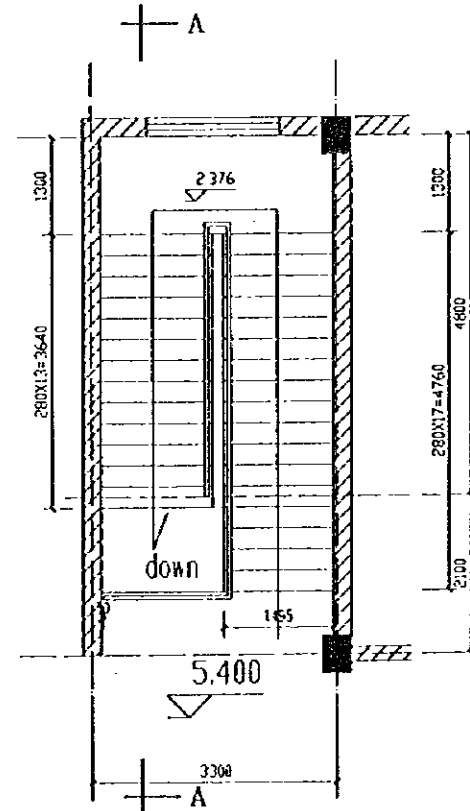
NO.3 1st FLOOR PLAN 1:50



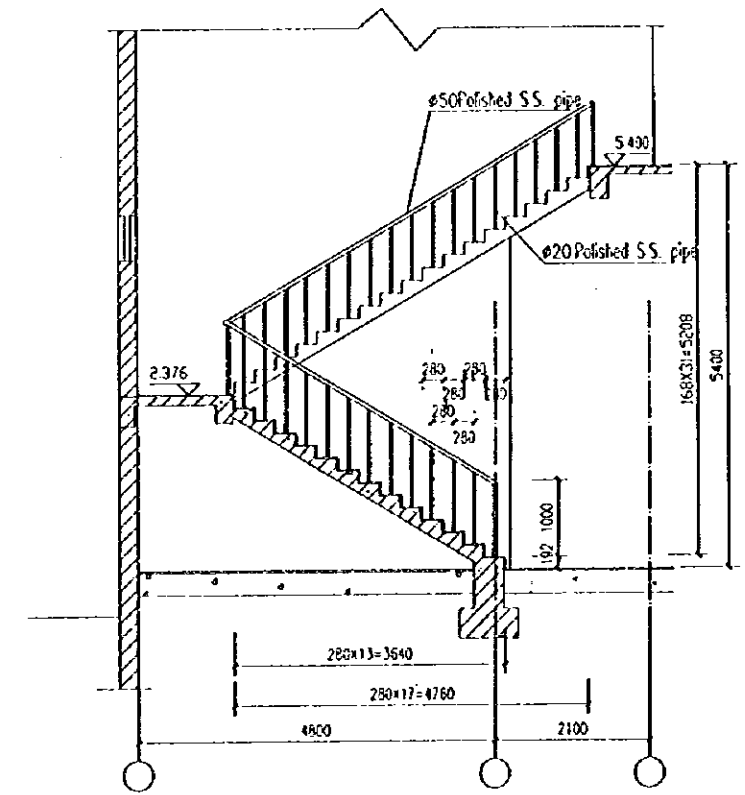
NO.1 2nd FLOOR PLAN 1:50



NO.2 2nd FLOOR PLAN 1:50

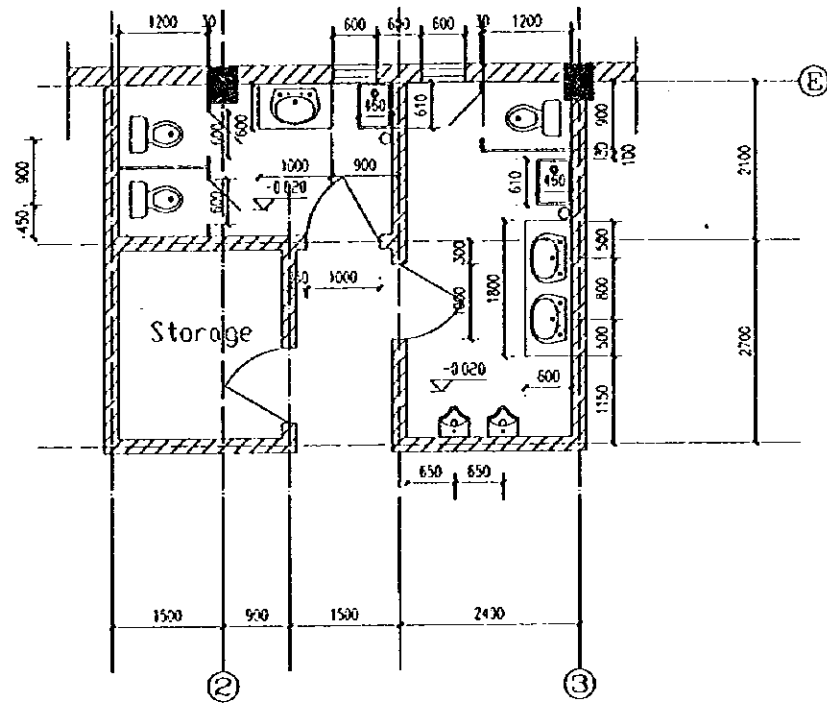


NO.3 2nd FLOOR PLAN 1:50

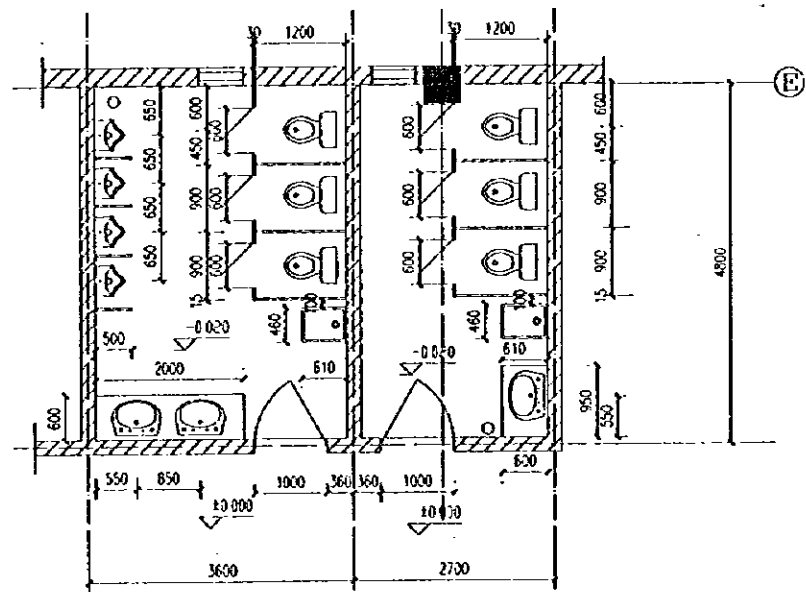


A-A SECTION 1:50

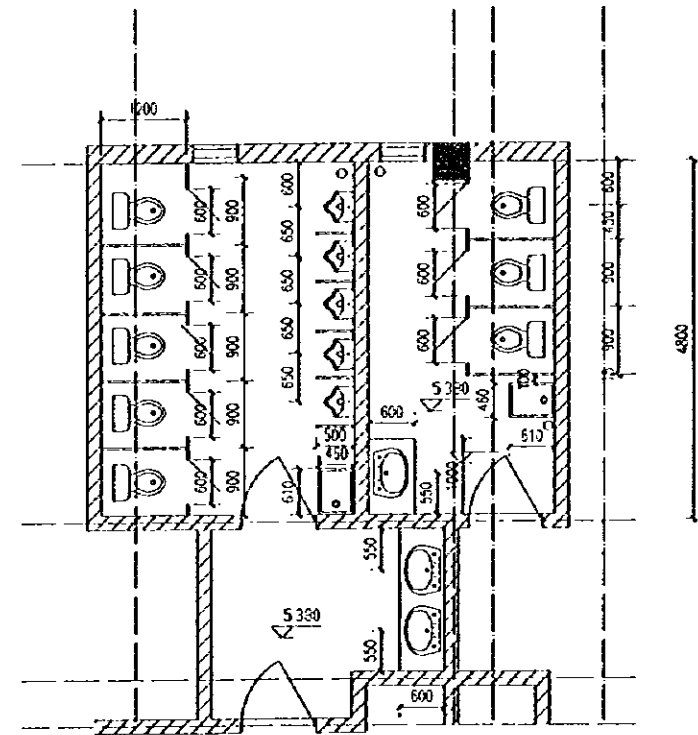
PEOPLE'S REPUBLIC OF CHINA	
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NO.1 TOILET DETAIL 1:50



NO.2 TOILET DETAIL 1:50



NO.3 TOILET DETAIL 1:50

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DETAILS OF TOILET	
SCALE	1:50
JAPAN INTERNATIONAL COOPERATION AGENCY	