

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
MAIN OFFICE BUILDING (FUEL STORAGE DEPOT)	
STAIR SECTIONS AND TOILET SECTION	
SCALE	DWG3-A01A(13/13)
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 aseismic 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: frame structure

III. Foundation type: R.C. Elastic base beam

IV. Base

1. According to << Immediate Report >>, site base has 5 layers, referring the Table below:

Name of Soil Layer	No of Soil Layer	Status Soil Layer	Compaction Soil Layer	Layer Elevation Average Soil Layer	Thickness	Calculation Strength
Soil	1	loose		3.01~4.32 3.97	0.62	
Brown-yellow powder clay	2-1	plastic	medium	3.20~3.66 3.41	0.90	140KPa
Grey-yellow powder clay	2-2	denser	medium	1.71~3.02 2.49	1.15	140KPa
Grey sand powder soil	2-3a	much denser ~medium	medium	1.18~1.52 1.32	2.89	150KPa
Grey clay powder soil	2-3b	much denser ~medium	medium	-1.90~-1.29 -1.57	3.51	130KPa
Grey silt powder clay	3	flowing plastic	high	-5.50~-4.08 -5.08	1.03	70KPa
Grey silt clay	4	flowing plastic	high	-6.40~-5.89 -6.15	8.30	60KPa
Grey clay	5-1	soft plastic	high			
Grey powder clay	5-2	soft plastic	high			

2. This project adopts shallow-burying foundation with 2-1 layer of brown-yellow powder clay as load-bearing layer of allowable bearing capacity of $f=110\text{KPa}$.
3. Site treatment: In order to prevent the uneven settlement of building, resulting in the cracking and damage of building, underground water drainage, silt removing, refilling must be done. During refilling, clay or sand soil shall be used, and tamped by layer with compacting parameter of 0.9Bie base soil after treatment shall reach allowable bearing capacity 110Kpa of 2-1-layer soil.
4. Since the geological investigation report taken as design basis is << Immediate Report >>, each building hasn't base course sections. The top elevation of load bearing layer is 3.41 as the average value of 2-1 layer's elevation. In case of not match-up between design base bottom elevation and actual elevation of 2-1 layer, or partial refilled soil layer is thicker, the design company shall be informed on time for modification.
5. 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 CG329.
2. The position of structural column between windows and column details refer to Architecture Construction Drawing
3. Wall & column connection: Tensile steel bar 2x6 (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 : 35; above ± 0.00 : 25; board 15.
7. Close coordination between each speciality shall be maintained during construction.

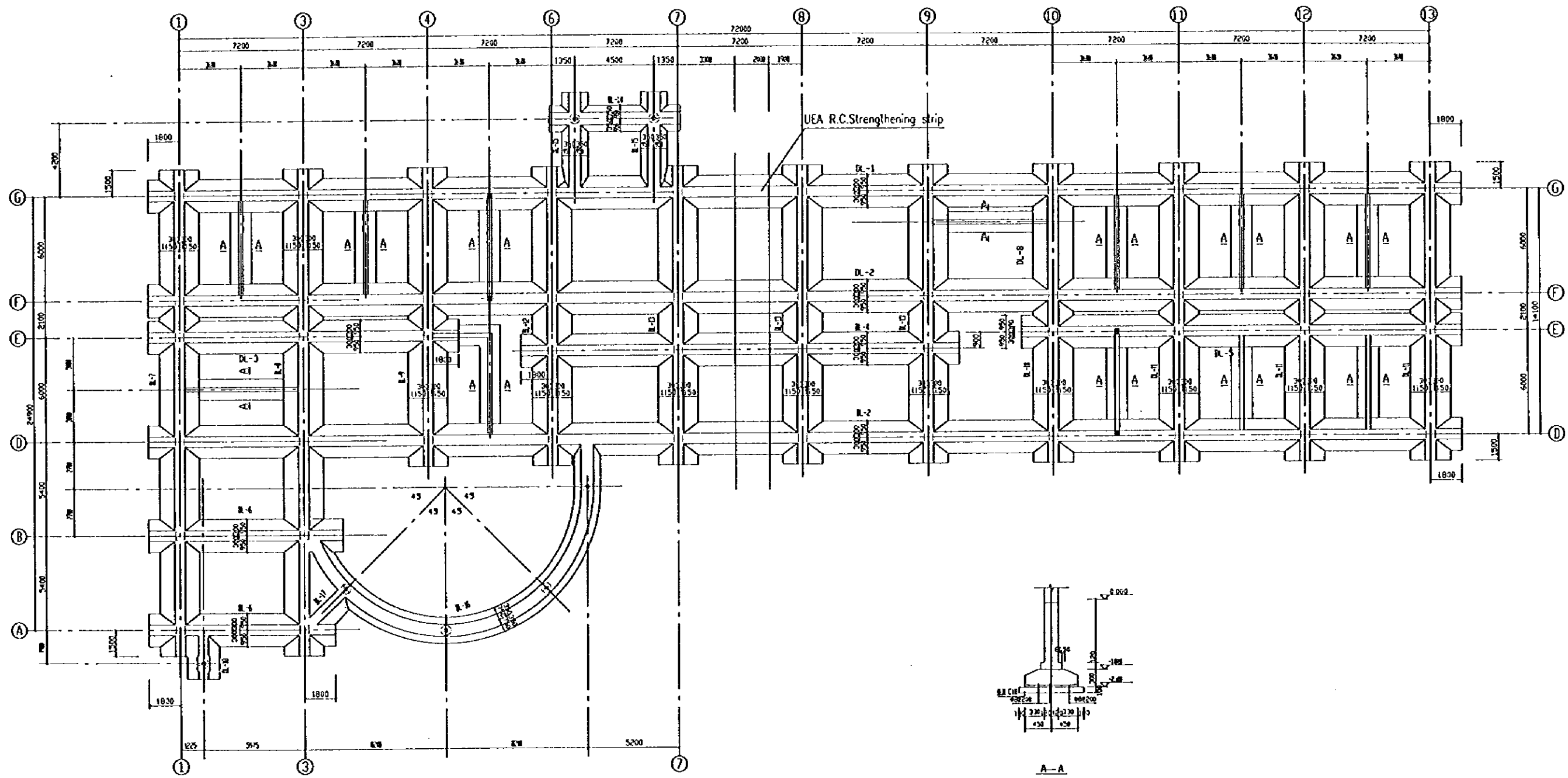
VII. Expansion joint treatment

1. Non expansion joint method is used in the design of this project, referring to National Construction Methods (YJCF22-92) << Compensation Shrinkage Concrete Water-proof Construction >>.
2. Design theory: Compensation shrinkage concrete is designed as structure material of beam board (small expansion UEA concrete). Strengthening strip (large expansion UAF concrete) shall be used in the original post-cast position, no post-cast joint shall be provided for continuous construction.
3. UEA concrete making (refer to UEA material manual)
small expansion UEA concrete: using 10% UEA (or CEA) to make concrete instead of cement of some quantity;
large expansion UEA concrete: using 14% UEA (OR CEA) to make concrete instead of cement of some quantity;
4. Strengthening strip's positions refer to foundation plan and structural plan of each floor.
5. Construction
strengthening strip width 2m, dense-porous wire mesh to be provided at two sides of strip. The outside of strengthening strip shall be grouted by small expansion UEA concrete during construction and the strengthening strip shall be grouted by large expansion UEA concrete. The concrete strength in the strip is higher than concrete at two sides by a grade C0.5. Small expansion concrete shall be grouted at another side.
6. UEA concrete expansion agent adopts UEA or CEA materials invented by China Building Material Science Research Institute, other kinds of expansion agents can be used only after the discussion and approval of the Owner, Construction company and design company.
7. Note:
Non-joint design is a new method, careful construction must be done as well as construction recording.

VIII. General Introduction

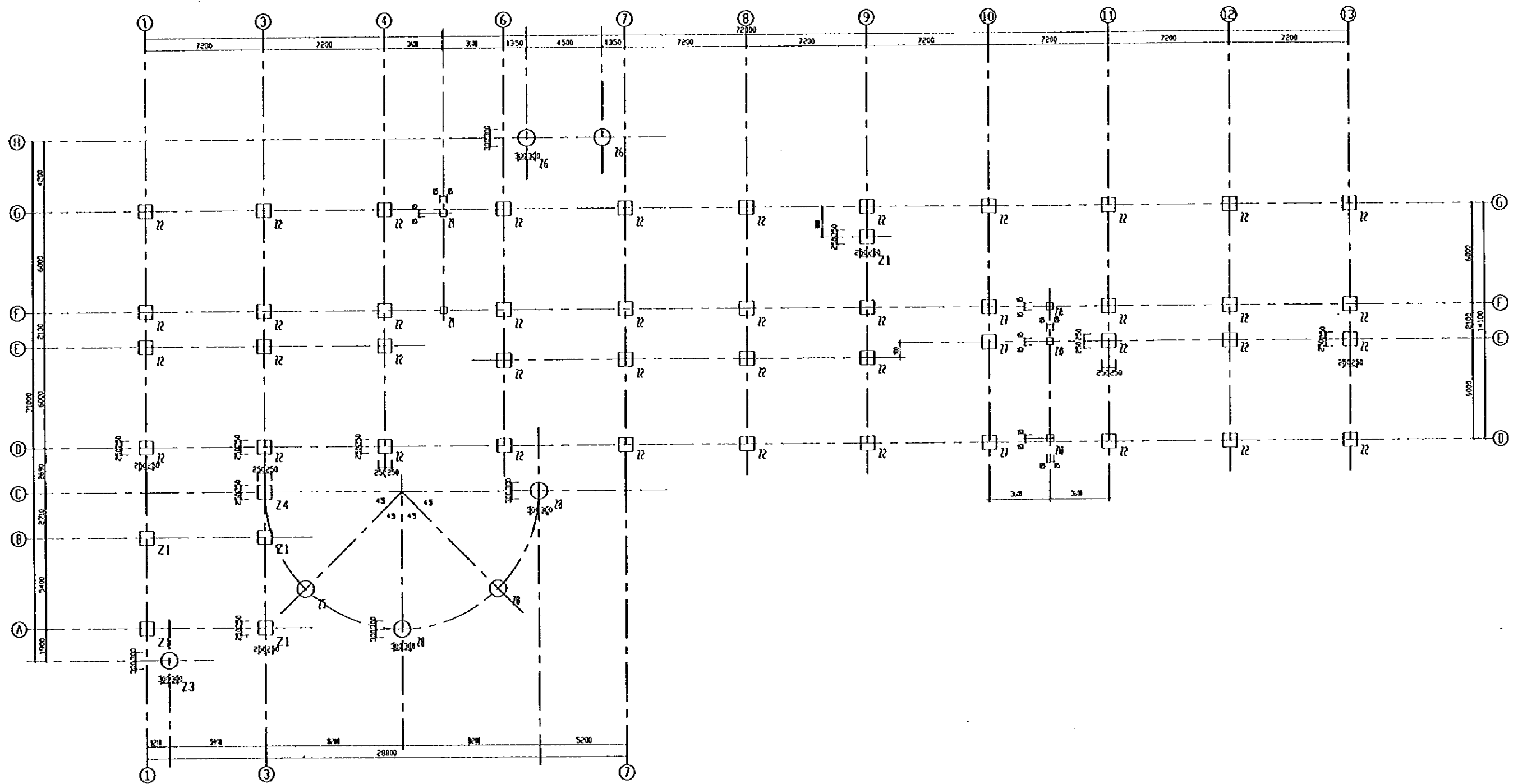
1. Except otherwise noted, all dimensions shall be: elevation -- m, others--mm in unit.
2. The absolute elevation of each part of this project ± 0.000 is 4.850m, referring to general drawing.
3. Except otherwise noted in the drawing, construction shall be done based on this introduction.
4. Standard drawings adopted by this project:
National Standards: Building Aseismic Structure Details: CG329(1)(2)

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DESIGN INTRODUCTION	
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JAPAN INTERNATIONAL COOPERATION AGENCY	



FOUNDATION PLAN
1:100

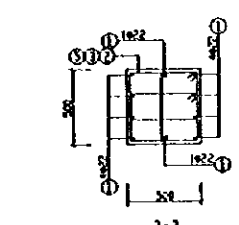
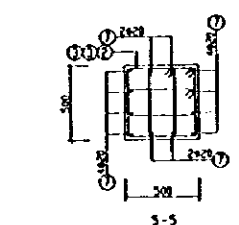
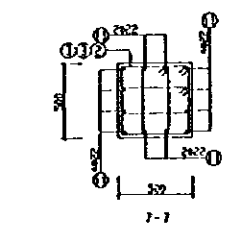
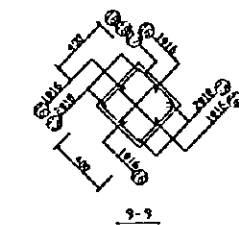
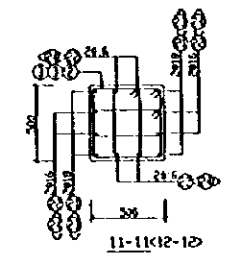
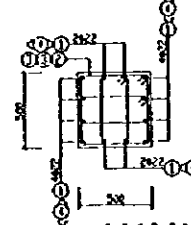
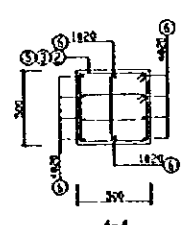
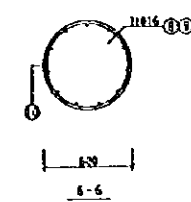
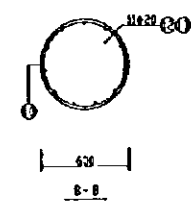
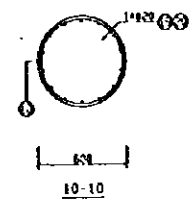
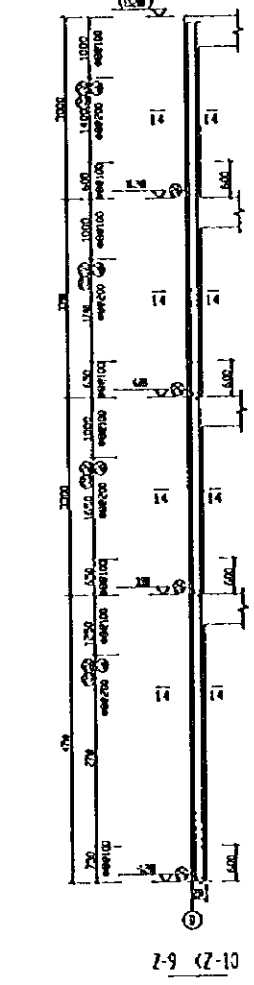
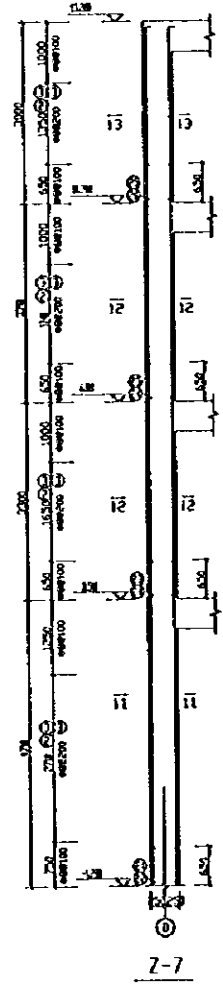
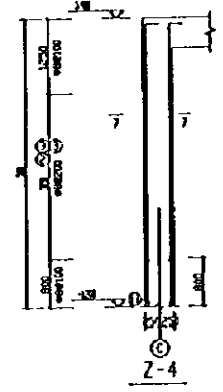
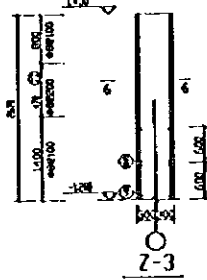
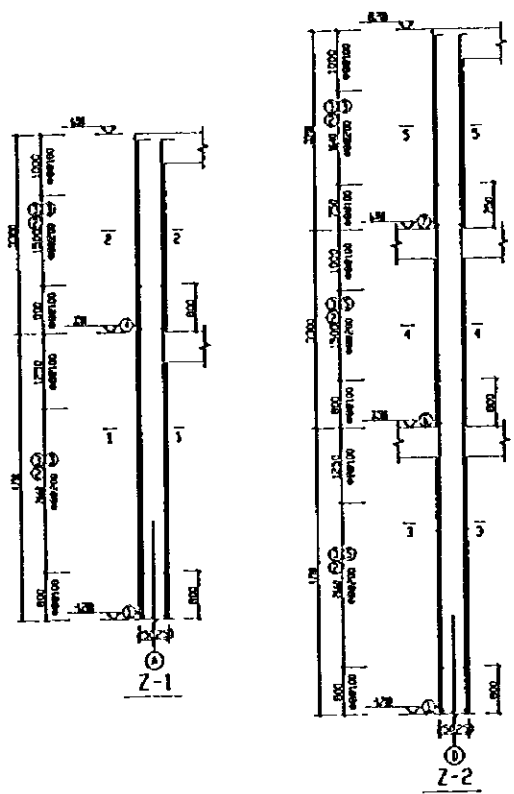
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SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT (SEPTEMBER 1997)	
MAIN OFFICE BUILDING (FUEL STORAGE DEPOT)	
FOUNDATION PLAN	
SCALE	1:100
DWG3-A018(2/11)	
JAPAN INTERNATIONAL COOPERATION AGENCY	



FIRST FLOOR COLUMN PLAN

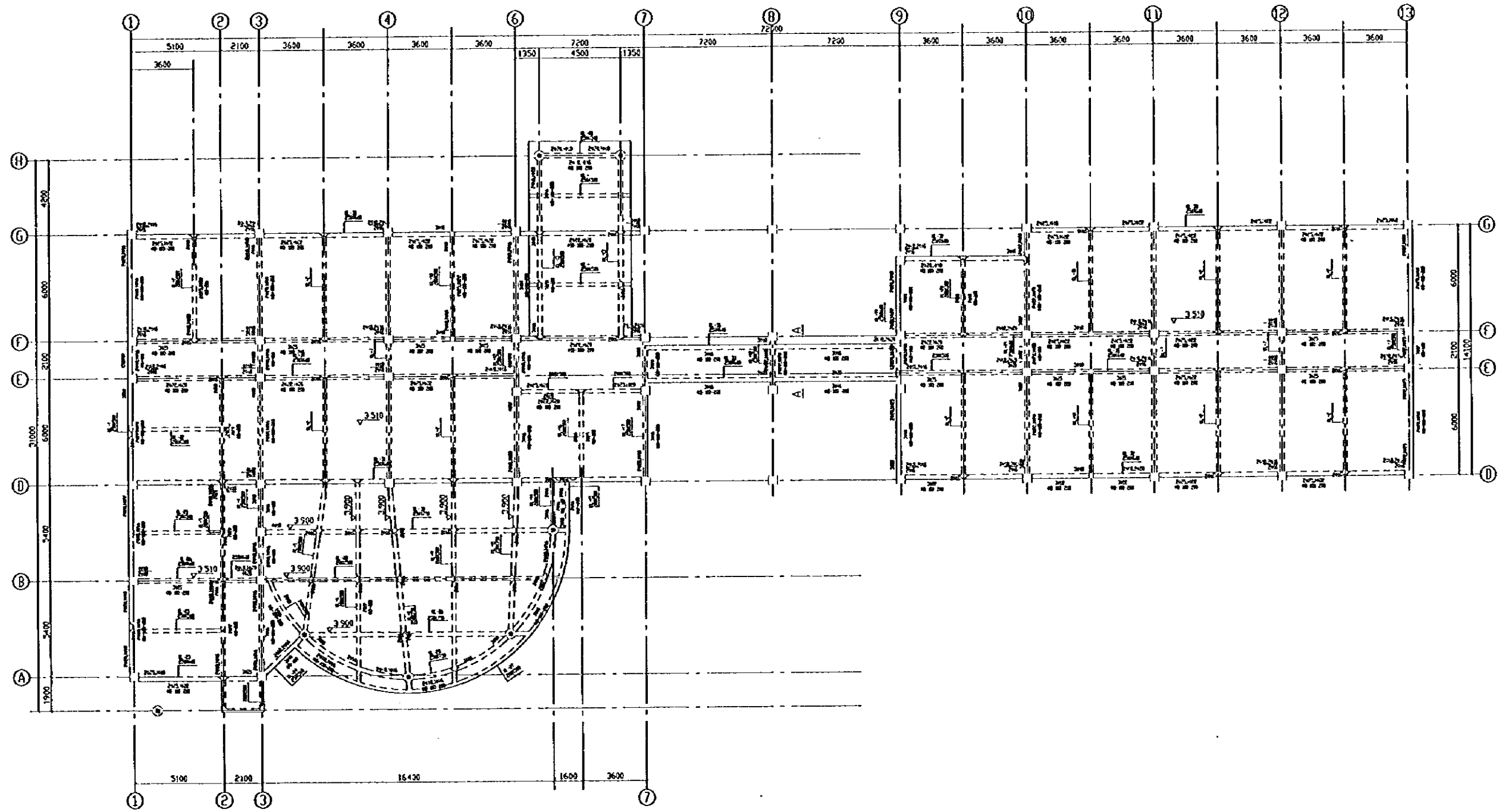
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FIRST FLOOR COLUMN PLAN	
SCALE	1:100
JWC3-A01B(3/11)	
JAPAN INTERNATIONAL COOPERATION AGENCY	



COLUMN REINFORCING STEEL TABLE

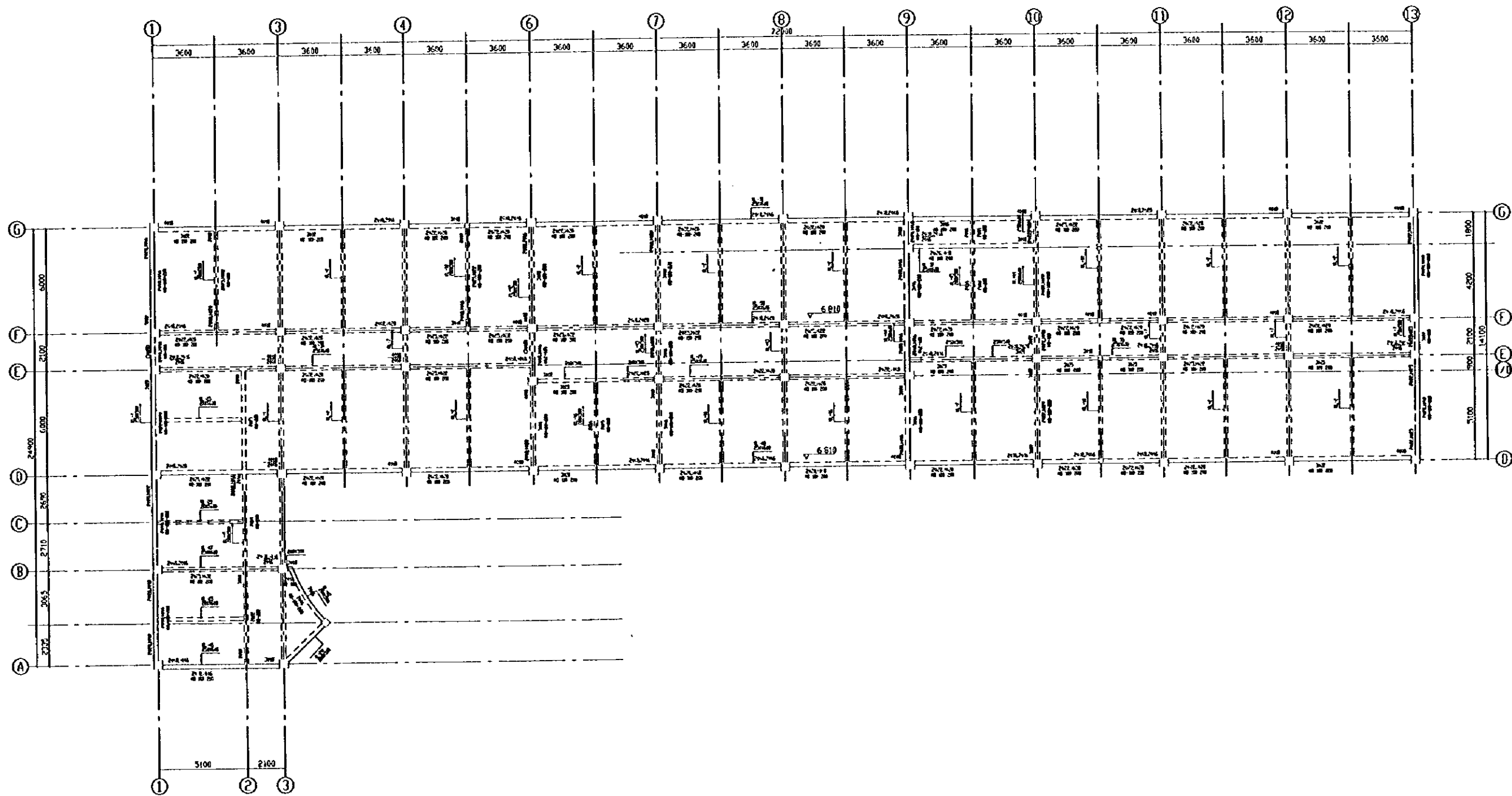
No.	Ditch	Speciation	Length
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4	36.78	10.0	42.2
5	36.78	10.6	37.4
6	36.78	11.2	32.6
7	36.78	11.8	27.8
8	36.78	12.4	23.0
9	36.78	13.0	18.2
10	36.78	13.6	13.4
11	36.78	14.2	8.6
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284	36.78	178.0	



2nd FLOOR GIRDER AND BEAM PLAN

1:100

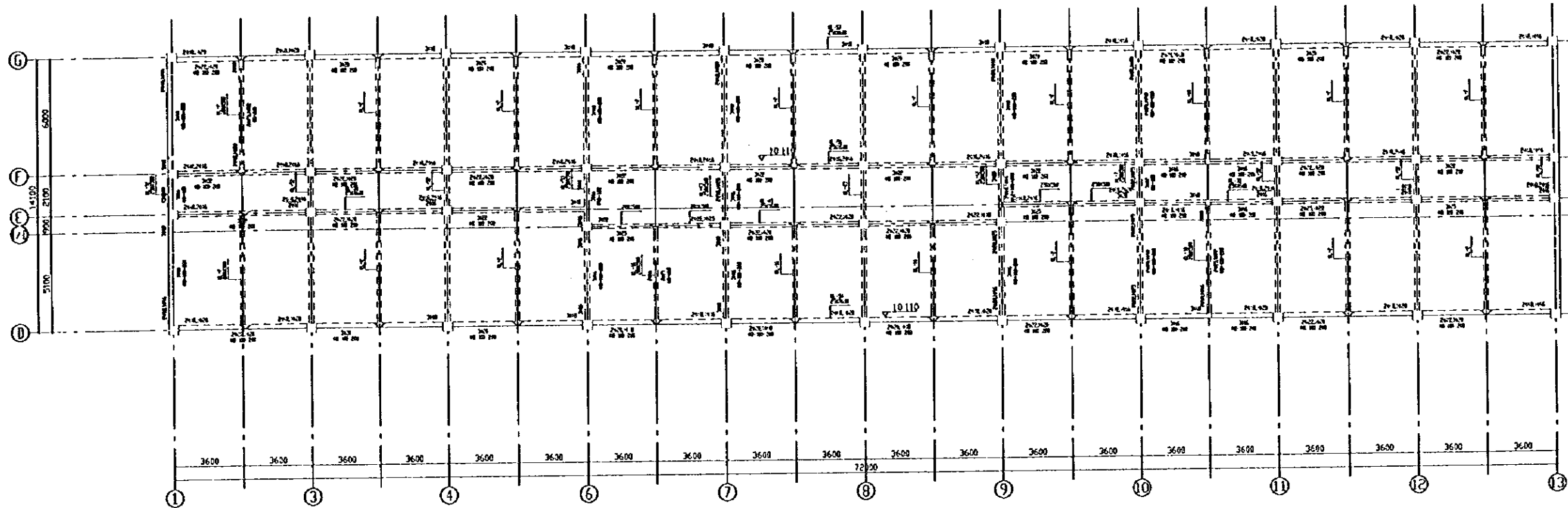
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SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
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SCALE	DWG3-A01B(5/11)
JAPAN INTERNATIONAL COOPERATION AGENCY	



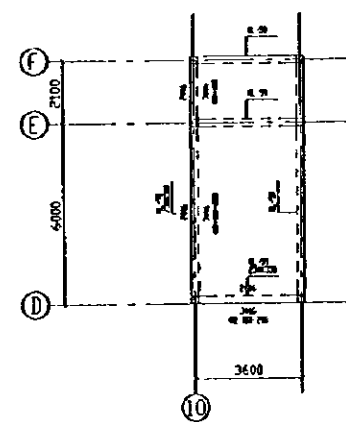
3rd FLOOR GIRDER AND BEAM PLAN

1:100

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
MAIN OFFICE BUILDING (FUEL STORAGE DEPOT)	
3rd FLOOR GIRDER AND BEAM PLAN	
SCALE	DWG3-A01B(6/11)
JAPAN INTERNATIONAL COOPERATION AGENCY	

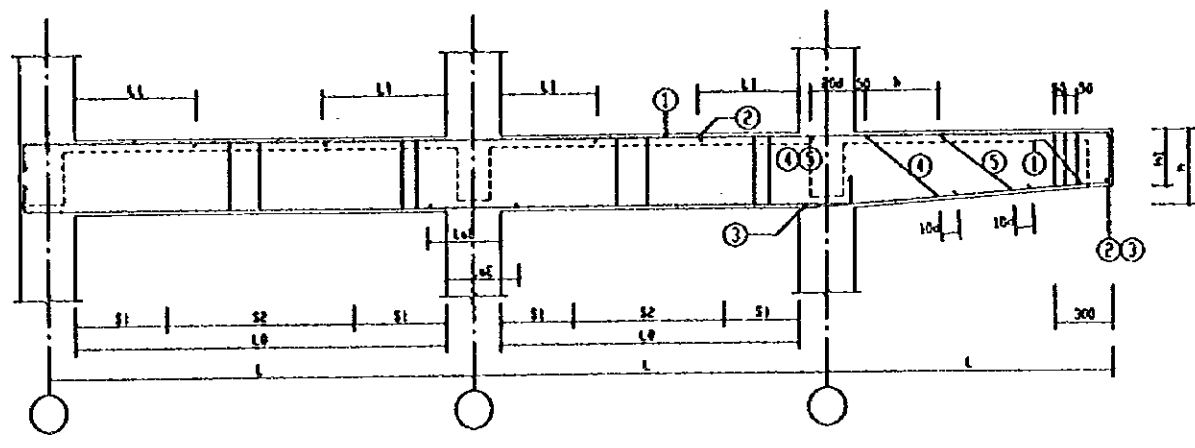


ROOF GIRDER AND BEAM PLAN
1:100

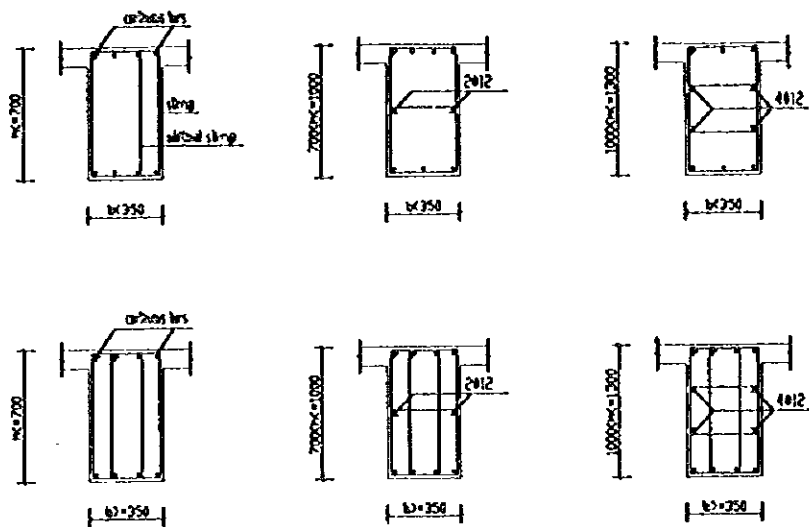


STAIRCASE ROOF BEAM PLAN
1:100

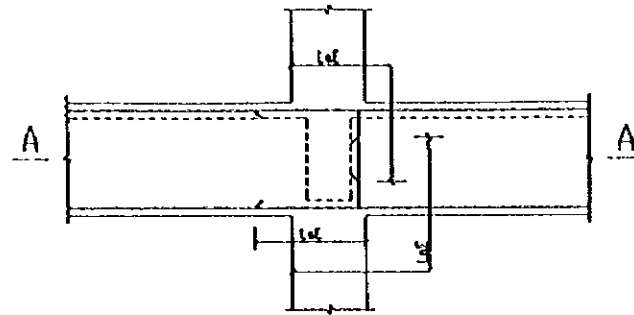
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
MAN OFFICE BUILDING (FUEL STORAGE DEPOT)	
ROOF GIRDER AND BEAM PLAN AND STAIRCASE ROOF BEAM PLAN	
SCALE	DWG3-A018(7/11)
JAPAN INTERNATIONAL COOPERATION AGENCY	



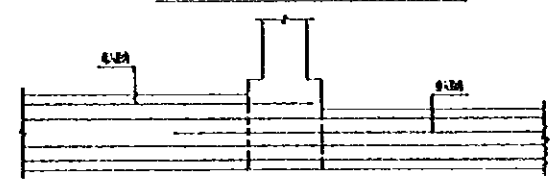
rebar layout elevation for connecting bar of wide/narrow beam



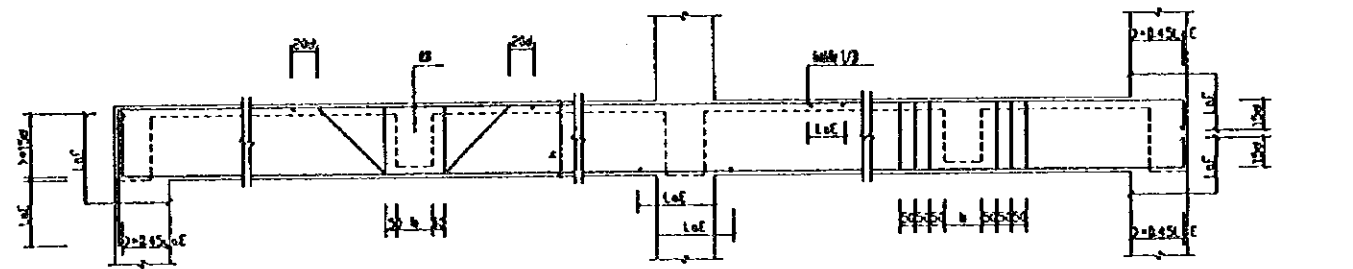
sectional construction



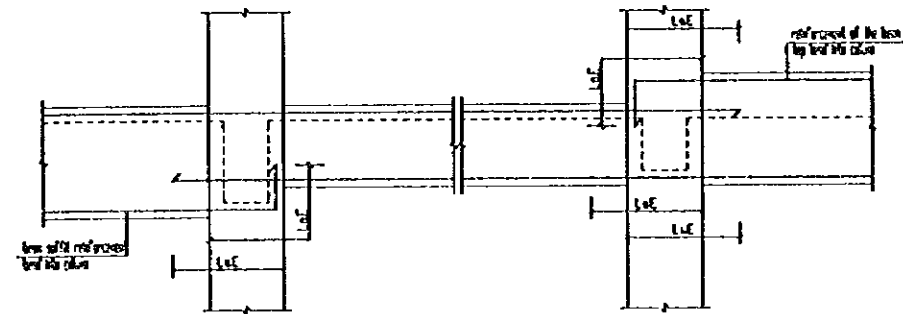
frame beam rebar elevation sketch map



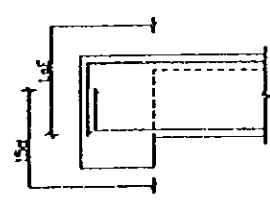
A-A bar arrangement of connecting of wide/narrow beams



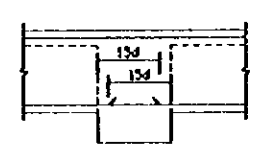
end joints of frame top
 signal of hooped bar $h \leq 800, \alpha = 45$
 $h > 800, \alpha = 60$
 support joint in the middle of frame
 signal of dense hoop reinforcement
 used for secondary beam
 end joints of the middle layer of frame



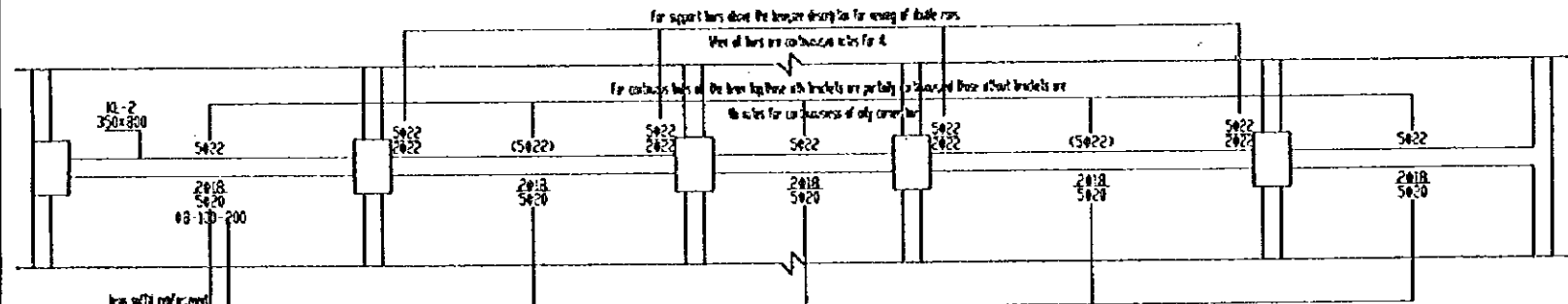
bar arrangement when the height of neighbor beams are different



side support construction of secondary beam



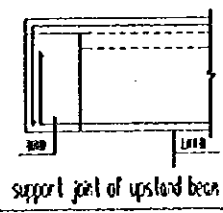
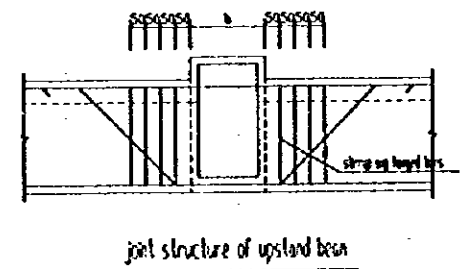
middle support construction of secondary beam

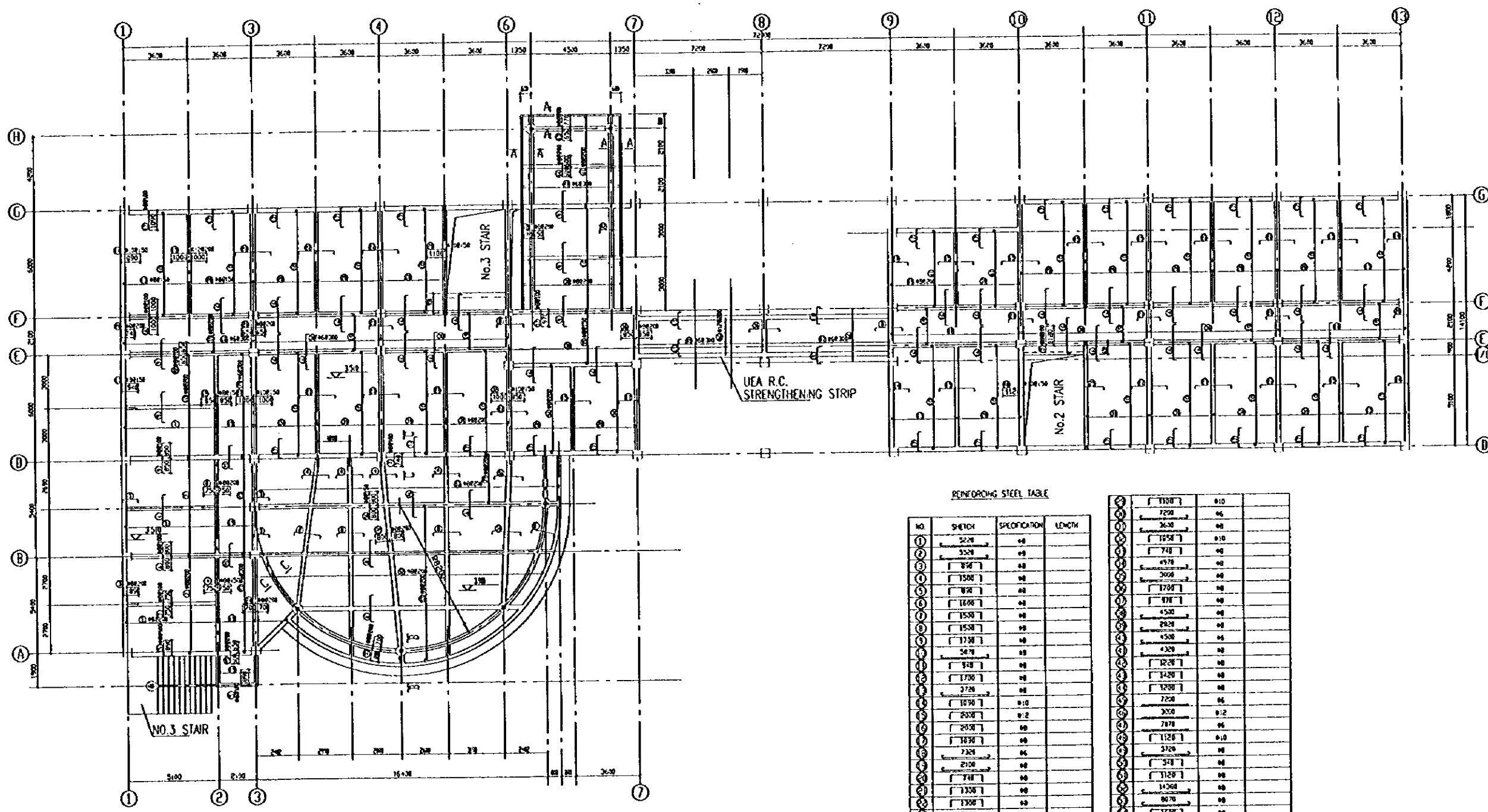


Legends for rebar plan of beams

- Note:
1. Corner hoop above frame beam shall be jointed among different spans on the same floor
 2. The length of hooping of frame beam in dense area shall be 15 times of the beam height.
 3. Diameter of tie bar is equal to that of hooping and spacing is 2 times of hooping space.
 4. Cutting point of the bar above frame beam shall adopt 1/4.
 5. Number of hoop reinforcement: 4 hoops for $> 350\text{mm}$ beam width
 2 hoops for 350mm beam width
 Add more hoops and other auxiliary measures when bearing bars is more than 3 on each floor.

Concrete strength class	Reinforcement	Diameter									
		32	30	28	25	22	20	18	16	14	
C20	2	1280	1200	1120	1000	880	800	720	640	560	
C25	2	1120	1050	980	880	770	700	630	560	500	
C30	2	960	900	840	750	660	600	540	480	400	





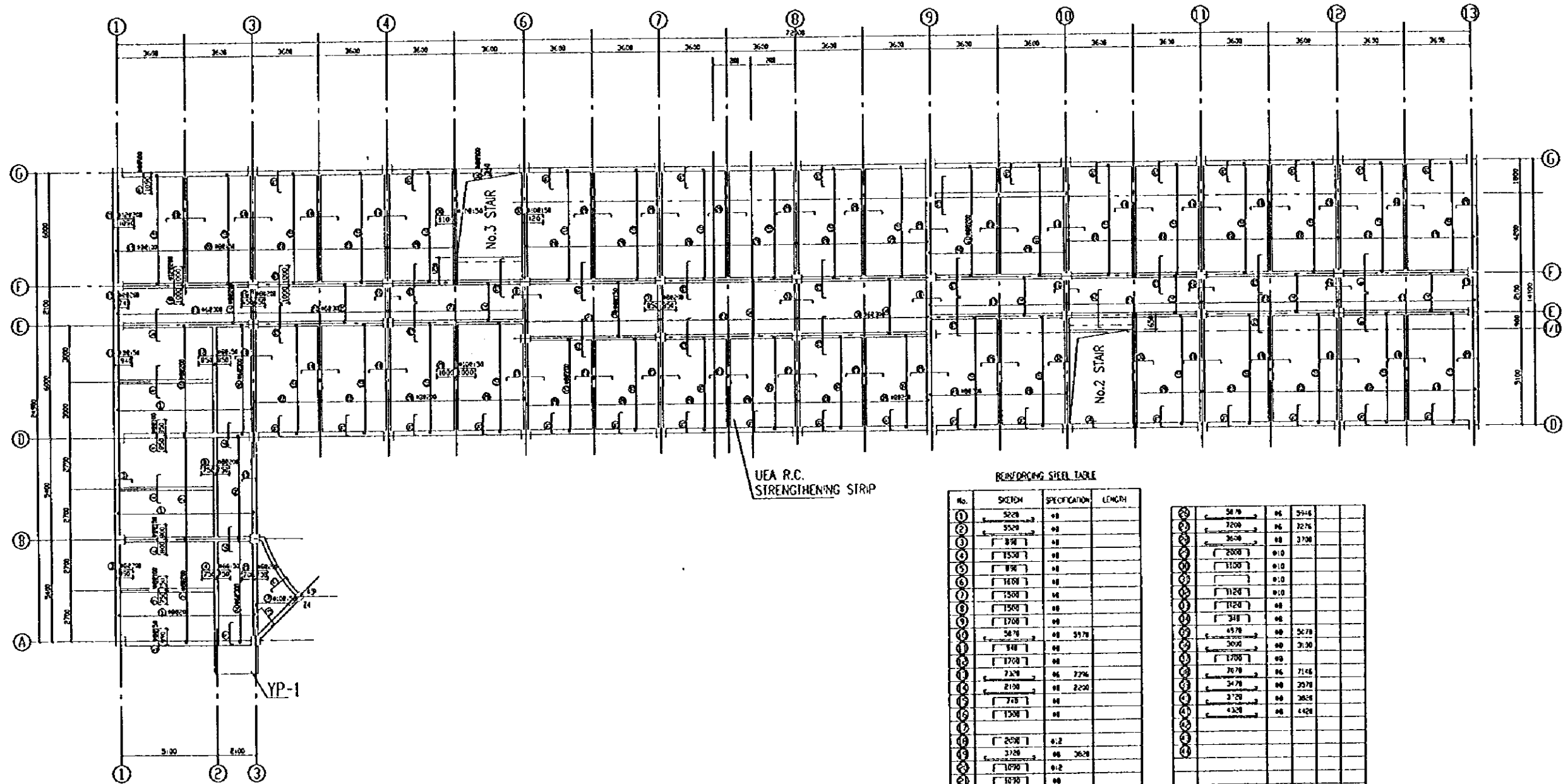
REINFORCING STEEL TABLE

NO.	SKETCH	SPECIFICATION	LENGTH
1	22.28	Φ8	
2	35.28	Φ8	
3	Φ8	Φ8	
4	15.00	Φ8	
5	Φ8	Φ8	
6	16.00	Φ8	
7	15.00	Φ8	
8	15.00	Φ8	
9	17.00	Φ8	
10	27.28	Φ8	
11	10.00	Φ10	
12	20.00	Φ12	
13	20.00	Φ8	
14	10.00	Φ8	
15	10.00	Φ8	
16	10.00	Φ8	
17	10.00	Φ8	
18	10.00	Φ8	
19	10.00	Φ8	
20	10.00	Φ8	
21	10.00	Φ8	
22	10.00	Φ8	
23	10.00	Φ8	
24	10.00	Φ8	
25	10.00	Φ8	
26	10.00	Φ8	
27	10.00	Φ8	
28	10.00	Φ8	
29	10.00	Φ8	
30	10.00	Φ8	
31	10.00	Φ8	
32	10.00	Φ8	
33	10.00	Φ8	
34	10.00	Φ8	
35	10.00	Φ8	
36	10.00	Φ8	
37	10.00	Φ8	
38	10.00	Φ8	
39	10.00	Φ8	
40	10.00	Φ8	
41	10.00	Φ8	
42	10.00	Φ8	
43	10.00	Φ8	
44	10.00	Φ8	
45	10.00	Φ8	
46	10.00	Φ8	
47	10.00	Φ8	
48	10.00	Φ8	
49	10.00	Φ8	
50	10.00	Φ8	
51	10.00	Φ8	
52	10.00	Φ8	
53	10.00	Φ8	
54	10.00	Φ8	
55	10.00	Φ8	
56	10.00	Φ8	
57	10.00	Φ8	
58	10.00	Φ8	
59	10.00	Φ8	
60	10.00	Φ8	
61	10.00	Φ8	
62	10.00	Φ8	
63	10.00	Φ8	
64	10.00	Φ8	
65	10.00	Φ8	
66	10.00	Φ8	
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68	10.00	Φ8	
69	10.00	Φ8	
70	10.00	Φ8	
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73	10.00	Φ8	
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75	10.00	Φ8	
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77	10.00	Φ8	
78	10.00	Φ8	
79	10.00	Φ8	
80	10.00	Φ8	
81	10.00	Φ8	
82	10.00	Φ8	
83	10.00	Φ8	
84	10.00	Φ8	
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91	10.00	Φ8	
92	10.00	Φ8	
93	10.00	Φ8	
94	10.00	Φ8	
95	10.00	Φ8	
96	10.00	Φ8	
97	10.00	Φ8	
98	10.00	Φ8	
99	10.00	Φ8	
100	10.00	Φ8	

Φ10	11.00	Φ10
Φ8	22.00	Φ8
Φ10	10.50	Φ10
Φ8	7.00	Φ8
Φ8	4.78	Φ8
Φ8	20.00	Φ8
Φ8	17.00	Φ8
Φ8	8.78	Φ8
Φ8	4.50	Φ8
Φ8	20.28	Φ8
Φ8	4.50	Φ8
Φ8	4.20	Φ8
Φ8	12.28	Φ8
Φ8	14.28	Φ8
Φ8	12.00	Φ8
Φ8	7.00	Φ8
Φ12	20.00	Φ12
Φ8	7.78	Φ8
Φ10	11.28	Φ10
Φ8	2.78	Φ8
Φ8	5.78	Φ8
Φ8	11.28	Φ8
Φ8	14.28	Φ8
Φ8	9.78	Φ8
Φ8	15.00	Φ8
Φ8	7.00	Φ8
Φ8	24.78	Φ8

2nd FLOOR REINFORCEMENT DETAILS
1:100

PEOPLE'S REPUBLIC OF CHINA
 SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997
 MAIN OFFICE BUILDING (FUEL STORAGE DEPOT)
 2nd FLOOR REINFORCEMENT DETAILS AND REINFORCING STEEL TABLE
 SCALE 1:100 | DWG3-A01B(9/11)
 JAPAN INTERNATIONAL COOPERATION AGENCY



3rd FLOOR REINFORCEMENT DETAILS

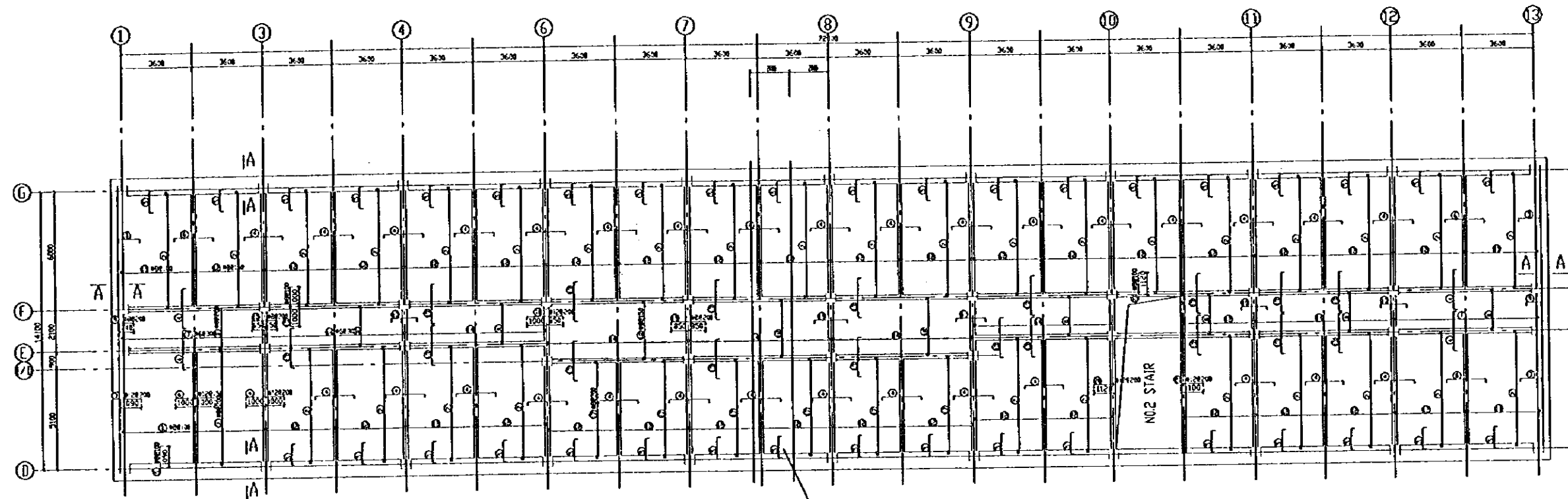
1:100

REINFORCING STEEL TABLE

No.	SECTION	SPECIFICATION	LENGTH
①	5200	Φ8	
②	5520	Φ8	
③	800	Φ8	
④	1500	Φ8	
⑤	800	Φ8	
⑥	1400	Φ8	
⑦	1500	Φ8	
⑧	1500	Φ8	
⑨	1700	Φ8	
⑩	5470	Φ8 27.7%	
⑪	540	Φ8	
⑫	1700	Φ8	
⑬	720	Φ8 27.7%	
⑭	2100	Φ8 27.7%	
⑮	700	Φ8	
⑯	1500	Φ8	
⑰	2000	Φ12	
⑱	3700	Φ8 26.2%	
⑲	1000	Φ12	
⑳	1000	Φ8	
㉑	3600	Φ8 27.0%	
㉒	2000	Φ8	
㉓	5520	Φ8 55.0%	
㉔	1700	Φ8	

①	5470	Φ8	394.6
②	3200	Φ8	32.7%
③	3600	Φ8	37.0%
④	2500	Φ10	
⑤	3100	Φ10	
⑥	1120	Φ10	
⑦	1120	Φ8	
⑧	340	Φ8	
⑨	4570	Φ8	56.7%
⑩	3000	Φ8	31.3%
⑪	1700	Φ8	
⑫	2670	Φ8	21.4%
⑬	3470	Φ8	29.7%
⑭	3700	Φ8	38.2%
⑮	4320	Φ8	44.8%

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
MAIN OFFICE BUILDING (FUEL STORAGE DEPOT)	
3rd FLOOR REINFORCEMENT DETAILS AND REINFORCING STEEL TABLE	
SCALE	1:100
DWG3-A01B(10/11)	
JAPAN INTERNATIONAL COOPERATION AGENCY	

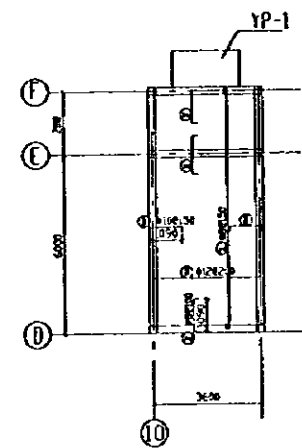


UEA R.C. STRENGTHENING STRIP

REINFORCING STEEL TABLE

No.	SKETCH	SPECIFICATION	LENGTH
1	2324	Φ8	
2	5478	Φ8	
3	[1700]	Φ12	
4	[2000]	Φ12	
5	[1098]	Φ8	
6	[2500]	Φ12	
7	7324	Φ8	
8	2100	Φ8	
9	[748]	Φ8	
10	[1500]	Φ8	
11	3174	Φ8	3624
12	3630	Φ8	3100
13	[2300]	Φ8	
14	7224	Φ8	7274
15	[1850]	Φ12	
16	4878	Φ8	5478
17	3000	Φ8	3100
18	[1700]	Φ8	
19	[1120]	Φ12	
20	[1100]	Φ12	
21	[1520]	Φ8	

ROOF REINFORCEMENT DETAILS
1-100

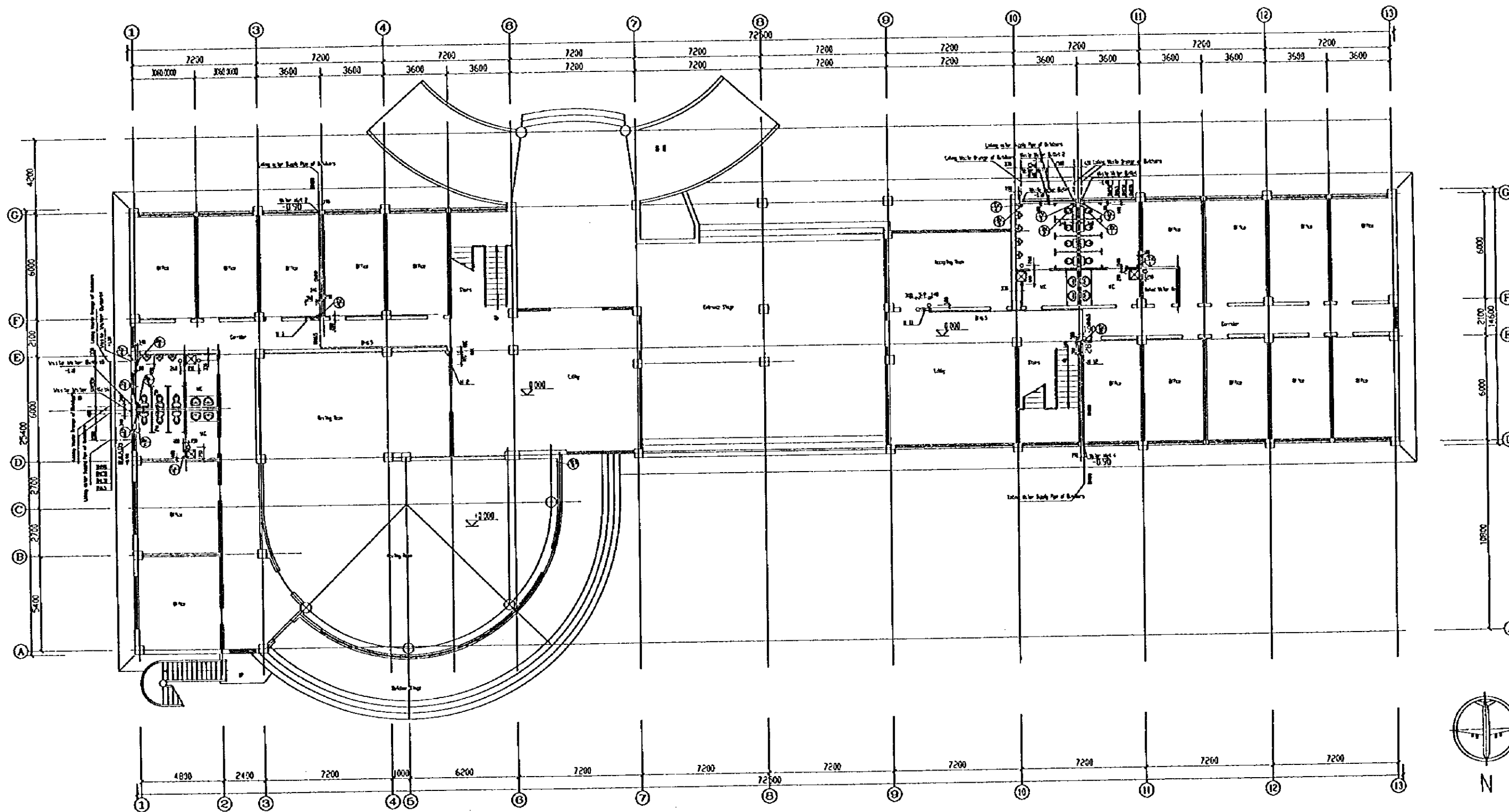


REINFORCING STEEL TABLE

No.	SKETCH	SPECIFICATION	LENGTH
1	3630	Φ12	
2	878	Φ8	
3	[1098]	Φ10	
4	[1098]	Φ8	
5	[200]	Φ8	

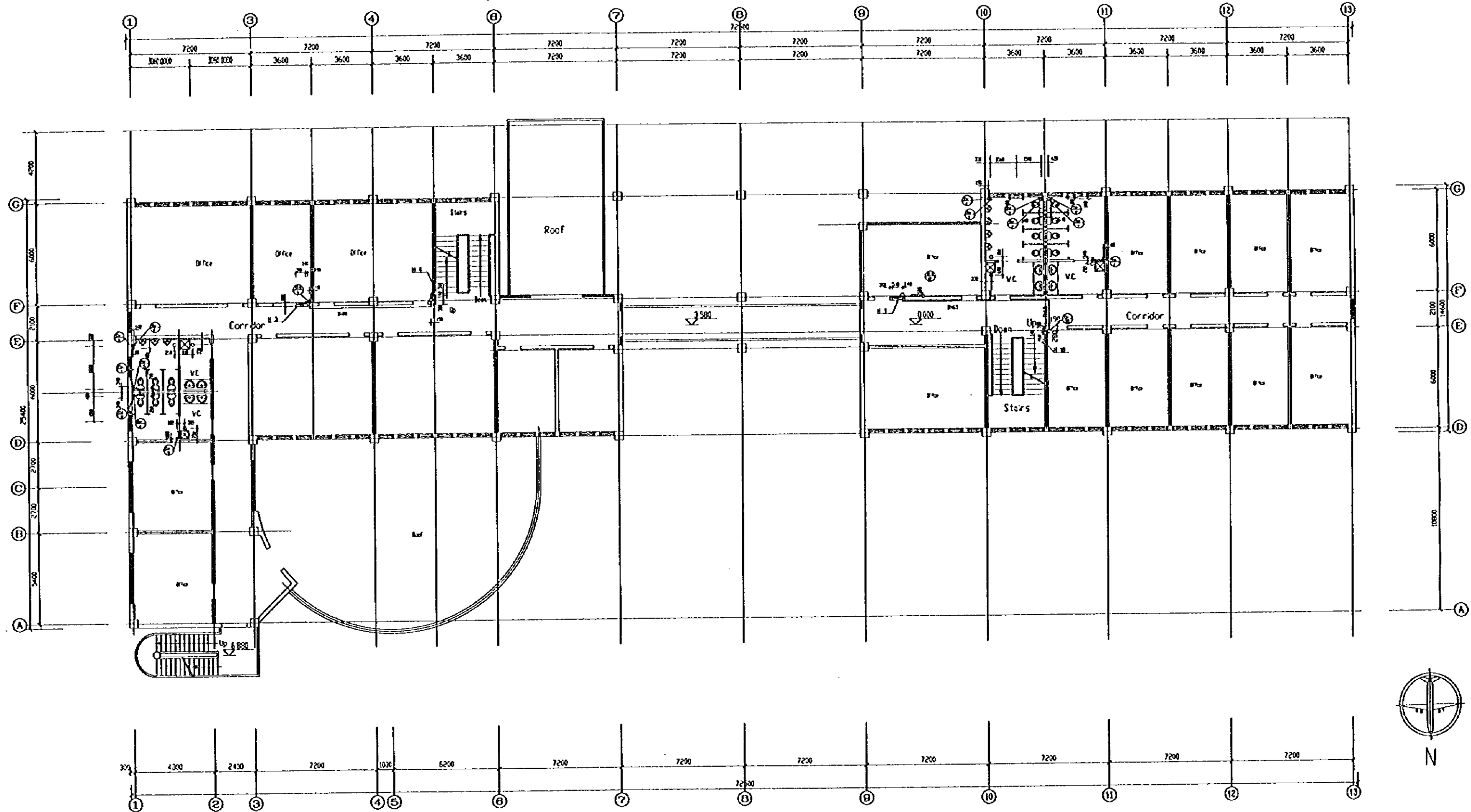
STAIRCASE ROOF REINFORCEMENT DETAILS
1-100

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
MAIN OFFICE BUILDING (FUEL STORAGE DEPOT)	
ROOF REINFORCEMENT DETAILS AND REINFORCING STEEL TABLE	
SCALE	1:100
DWG3-A01B(11/11)	
JAPAN INTERNATIONAL COOPERATION AGENCY	



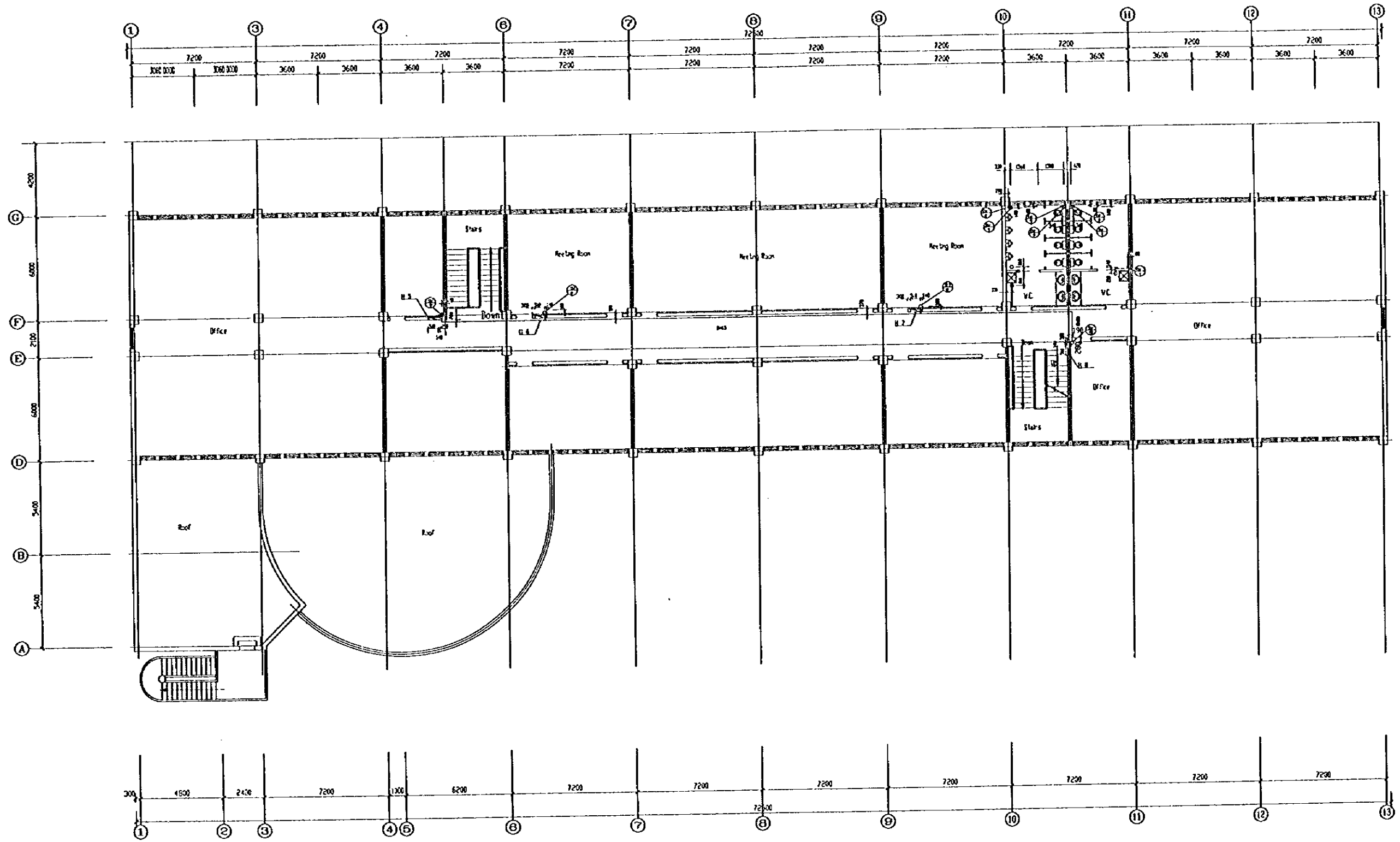
1st FLOOR PLAN

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
MAIN OFFICE BUILDING (FUEL STORAGE DEPOT)	
1st FLOOR PLAN, WATER SUPPLY AND DRAINAGE AND FIRE FIGHTING	
SCALE	1:200
DWGS-A01C(1/3)	
JAPAN INTERNATIONAL COOPERATION AGENCY	



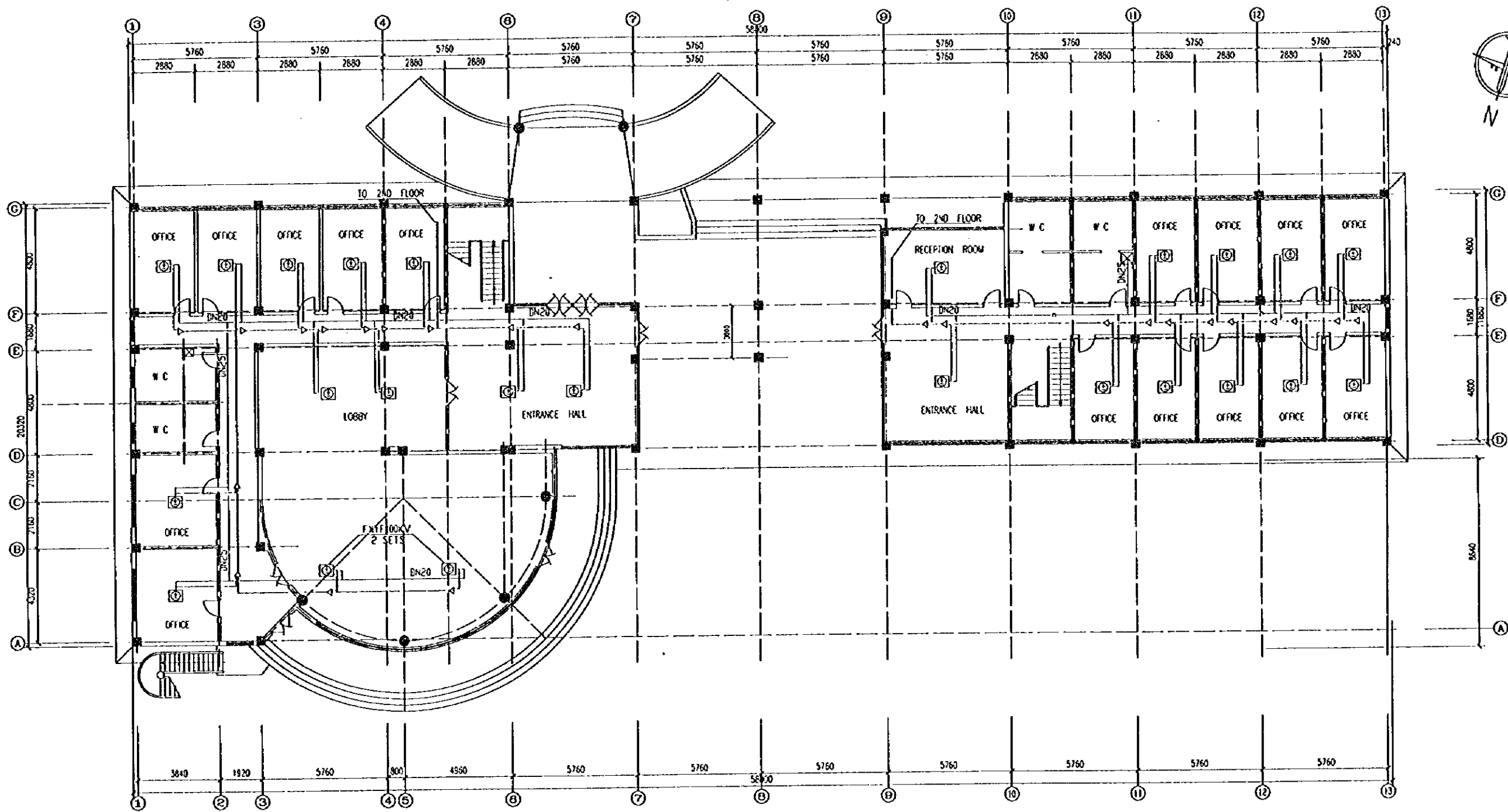
2nd FLOOR PLAN

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
MAIN OFFICE BUILDING (FUEL STORAGE DEPOT)	
2nd FLOOR PLAN, WATER SUPPLY AND DRAINAGE AND FIRE FIGHTING	
SCALE	DWG3-A01C(2/3)
JAPAN INTERNATIONAL COOPERATION AGENCY	



3rd FLOOR PLAN

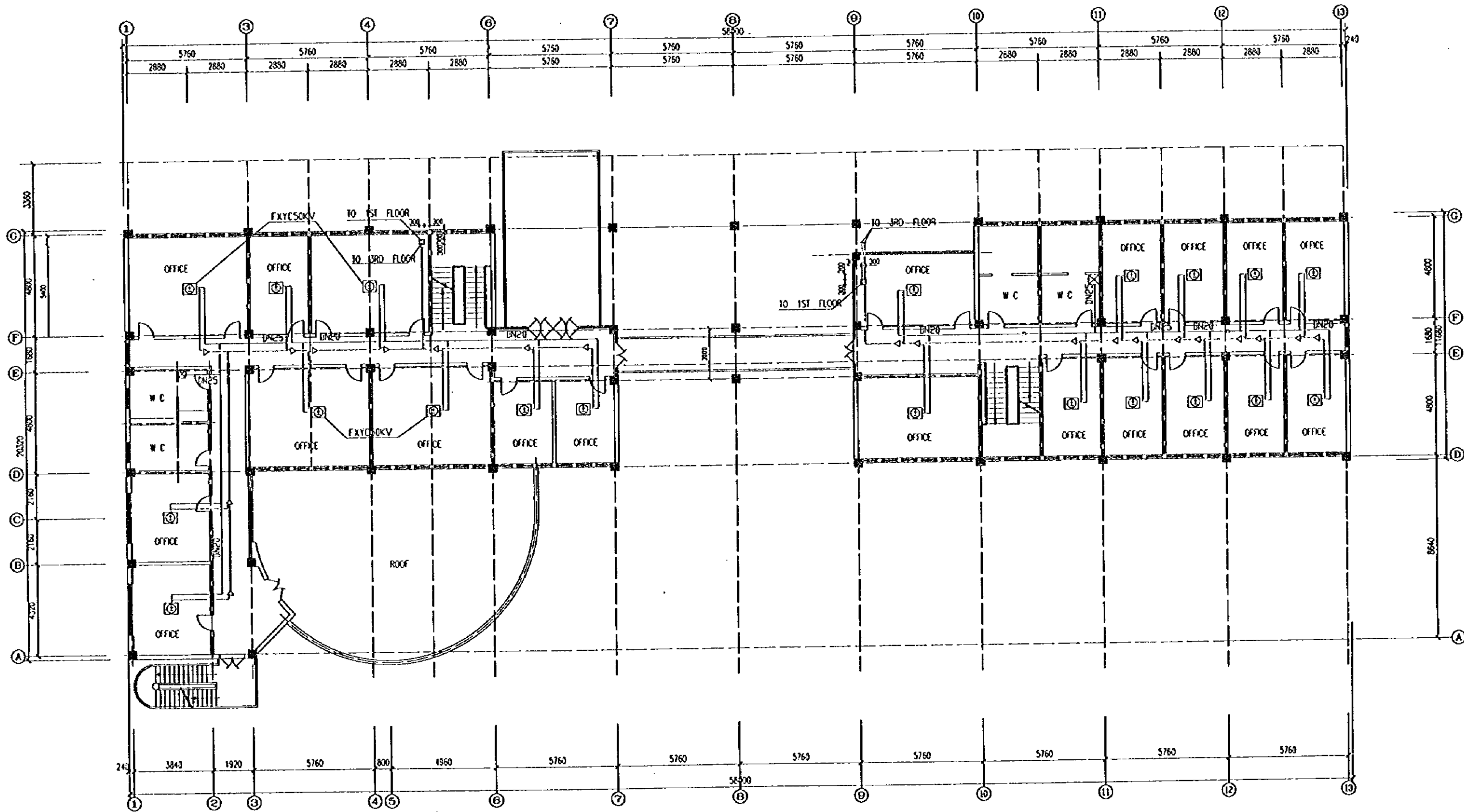
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
MAIN OFFICE BUILDING (FUEL STORAGE DEPT)	
3rd FLOOR PLAN, WATER SUPPLY AND DRAINAGE AND FIRE FIGHTING	
SCALE	DWG3-A01C(3/3)
JAPAN INTERNATIONAL COOPERATION AGENCY	



NOTE: THE TYPE OF FAN COIL PIPE NOT NOTED IN THE DRAWING IS
 FYXF25KV TYPE, 22 SETS IN TOTAL.

1st FLOOR PLAN

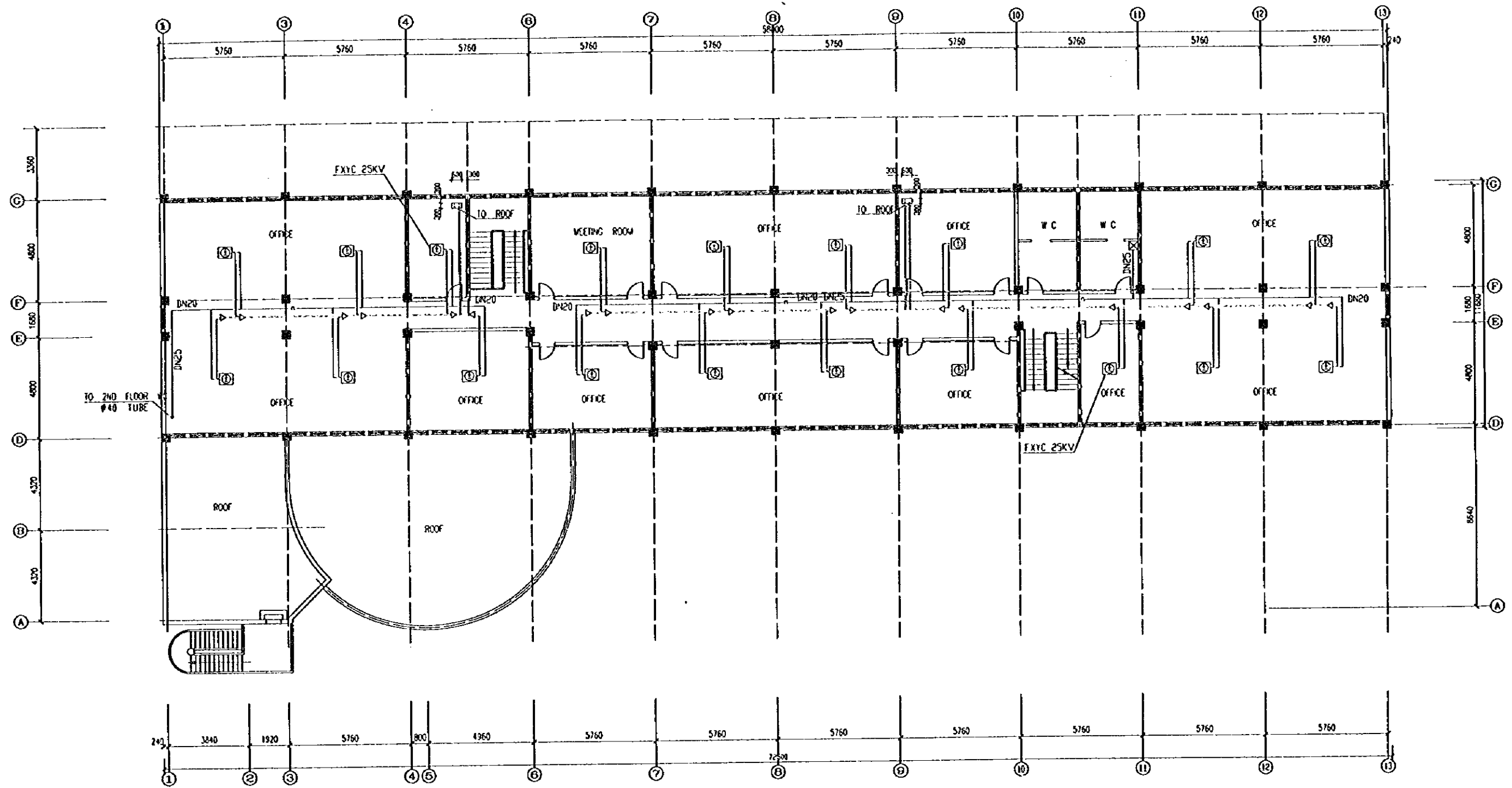
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
MAIN OFFICE BUILDING (FUEL STORAGE DEPOT)	
1st FLOOR PLAN, AIR-CONDITIONING SYSTEM	
SCALE	DWG3-A01D(1/3)
JAPAN INTERNATIONAL COOPERATION AGENCY	



2nd FLOOR PLAN

NOTE: THE TYPE OF FAN COIL PIPE NOT NOTED IN THE DRAWING IS FXYC2SKV TYPE, 16 SETS IN TOTAL.

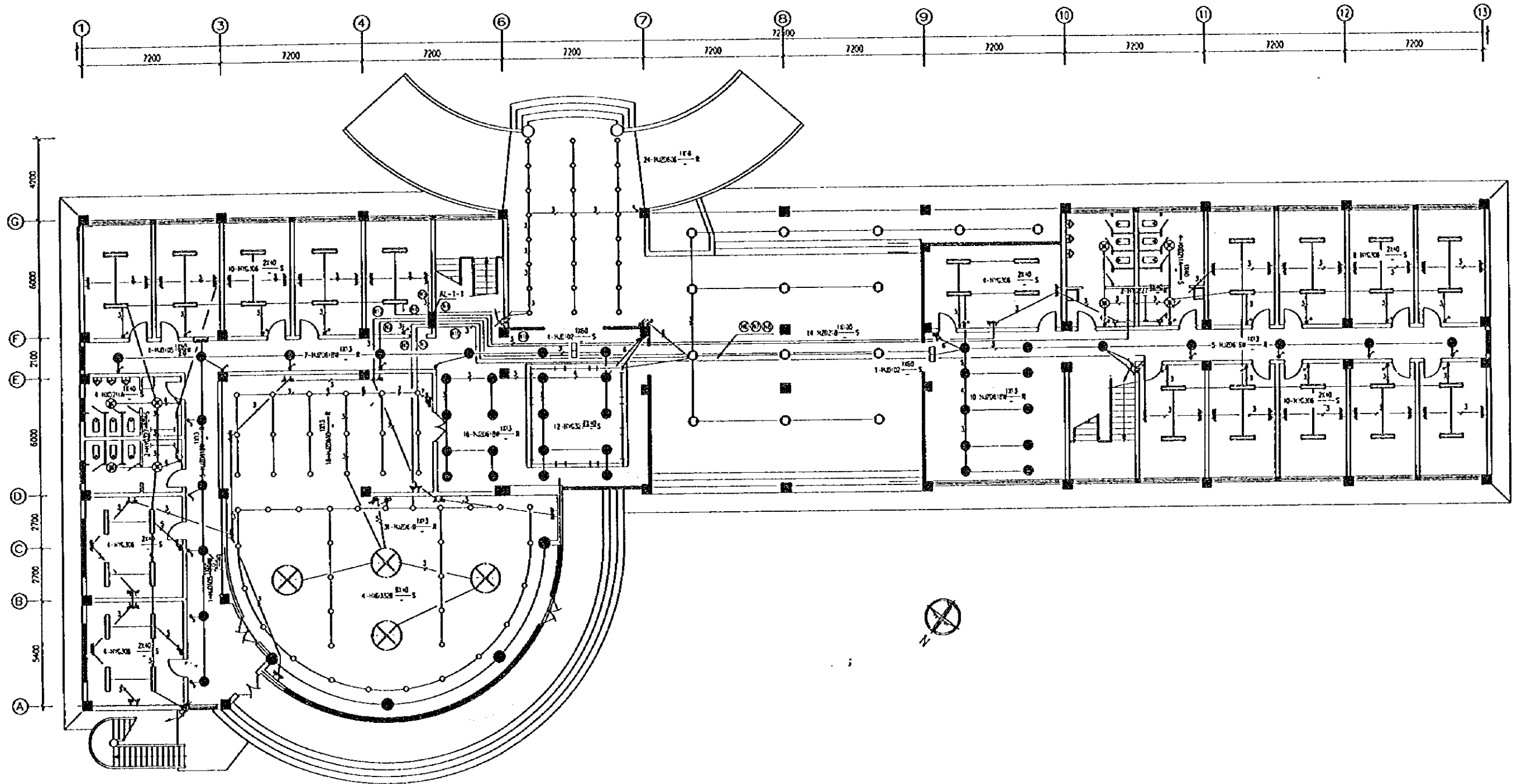
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
MAIN OFFICE BUILDING (FUEL STORAGE DEPOT)	
2nd FLOOR PLAN, AIR-CONDITIONING SYSTEM	
SCALE	DWG3-A010(2/3)
JAPAN INTERNATIONAL COOPERATION AGENCY	



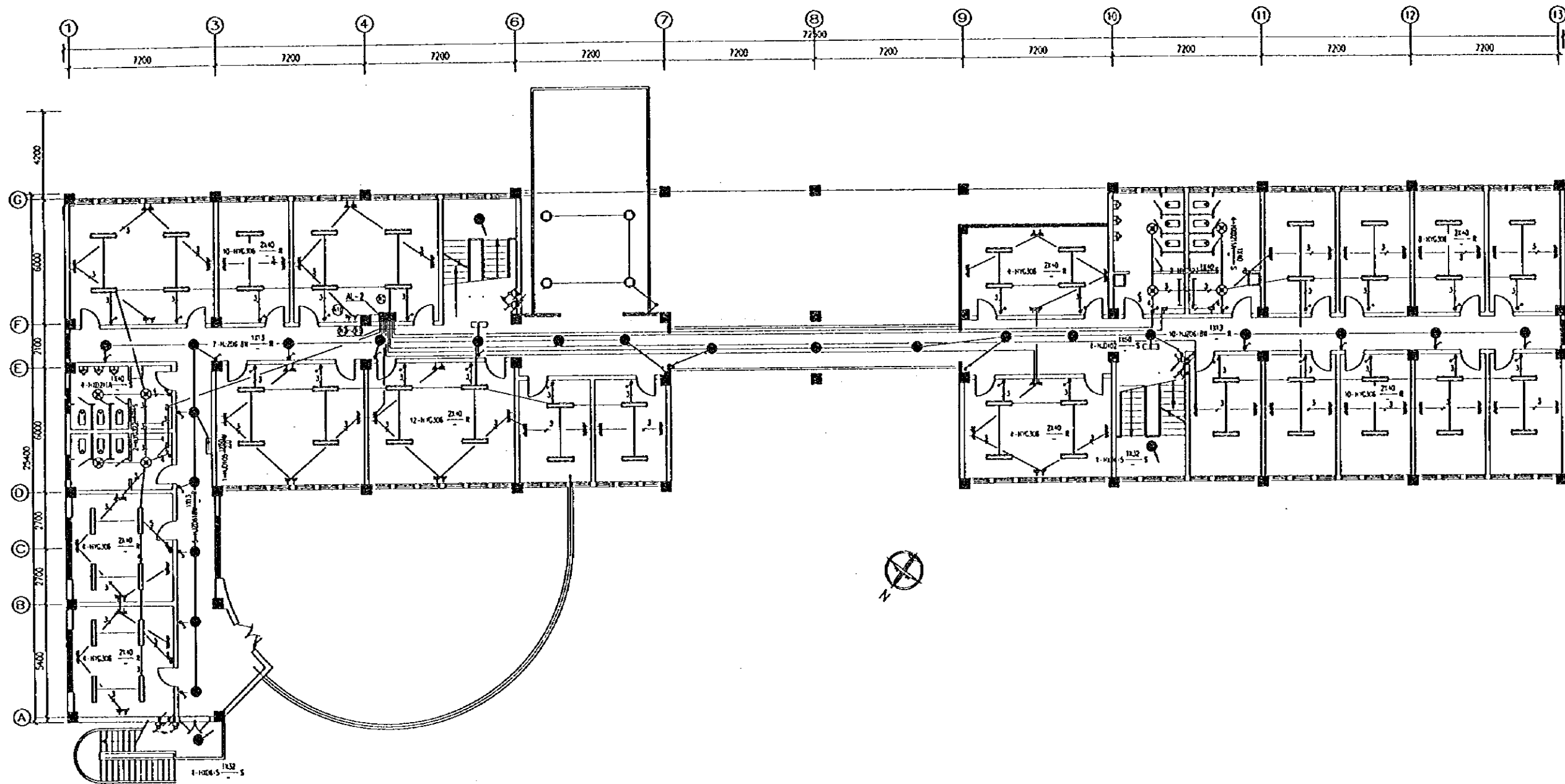
NOTE: THE TYPE OF FAN COIL PIPE NOT NOTED IN THE DRAWING IS FXVC50KV TYPE, 17 SETS IN TOTAL.

3rd FLOOR PLAN

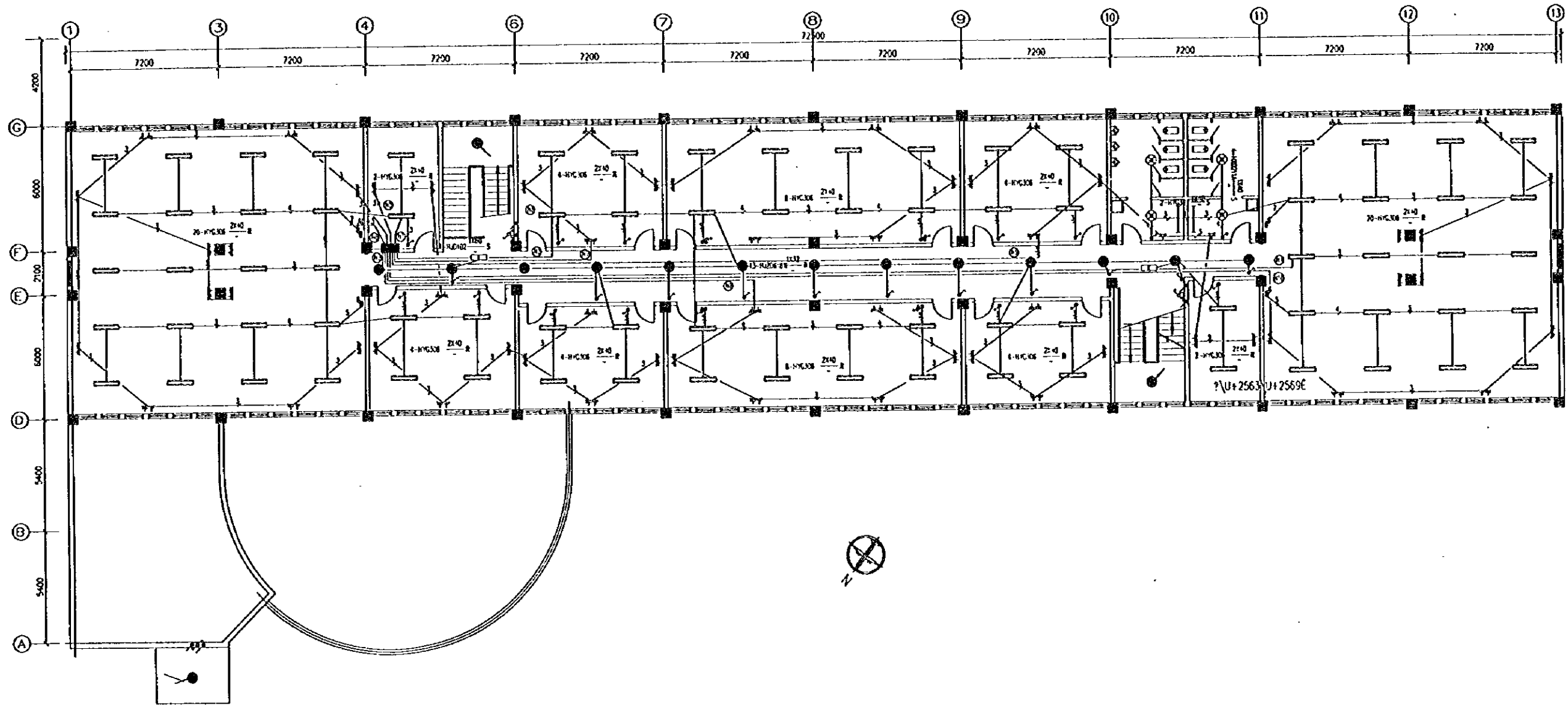
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
MAIN OFFICE BUILDING (FUEL STORAGE DEPOT)	
3rd FLOOR PLAN, AIR-CONDITIONING SYSTEM	
SCALE	DWG3-A010(3/3)
JAPAN INTERNATIONAL COOPERATION AGENCY	



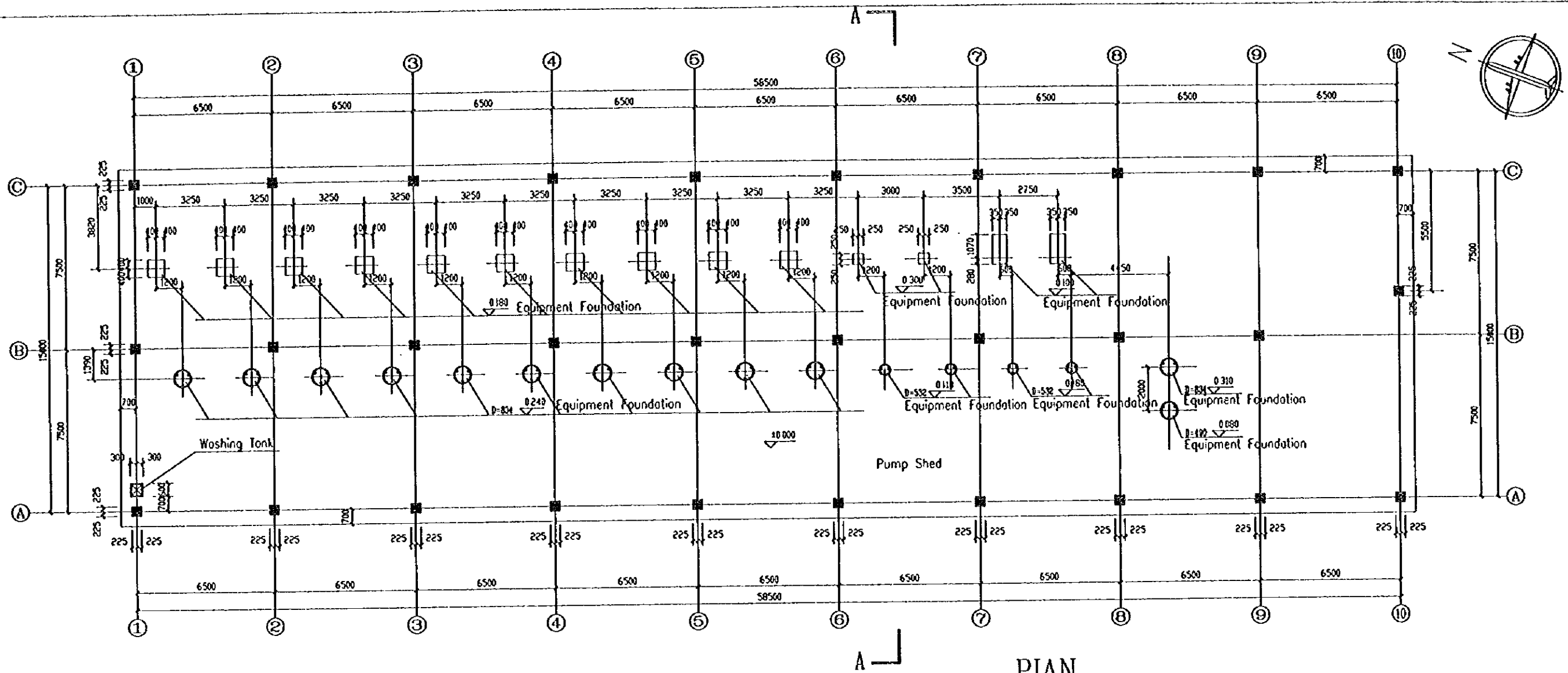
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
MAIN OFFICE BUILDING (FUEL STORAGE DEPOT)	
LIGHTING LAYOUT FOR FLOOR OF COMPREHENSIVE BUILDING	
SCALE NONE	DWGJ-A01E(1/3)
JAPAN INTERNATIONAL COOPERATION AGENCY	



PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
MAIN OFFICE BUILDING (FUEL STORAGE DEPOT)	
LIGHTING LAYOUT FOR FLOOR OF COMPREHENSIVE BUILDING	
SCALE NONE	DWG3-A01E(2/3)
JAPAN INTERNATIONAL COOPERATION AGENCY	



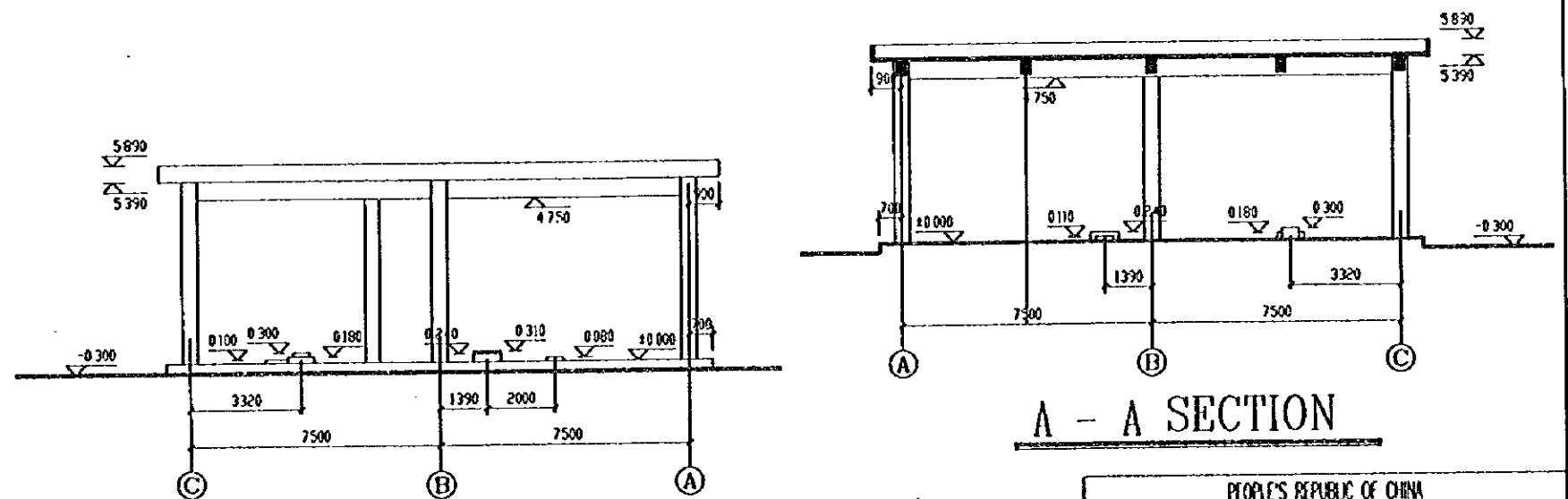
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT SEPTEMBER 1997	
MAIN OFFICE BUILDING (FUEL STORAGE DEPOT)	
LIGHTING LAYOUT FOR FLOOR OF COMPREHENSIVE BUILDING	
SCALE NONE	DWG3-A01E(3/3)
JAPAN INTERNATIONAL COOPERATION AGENCY	



Building Material Construction Table

No.	Topping	Construction
Roof 1	Small Stone Protection Layer (without persons)	<ol style="list-style-type: none"> 1. Pave one layer of binded peastone of 3-6 in partical size; 2. Ternary ethylene-propylene rubber rolled material water-proof layer; 3. 20 thick 1:2.5 cement mortar levelling course; 4. Pave 1:8 cement perlite thermot 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 6ms as per Codes); 5. 20 thick 1:3 cement mortar levelling course; 6. R.C.slab
Ceiling 1	Coating	<ol style="list-style-type: none"> 1. Point ceiling coating; 2. 2 thick grummet finish cool; 3. 6 thick 1:3:9 cement lime putly mortar; 4. 2 thick 1:0.5:1 cement lime putly mortar priming; 5. R.C. slab bottom to be brushed one coat of plain wet cement (mixing 107 glue with water 3%-5%).
Floor 1	Cement	<ol style="list-style-type: none"> 1. 20 thick 1:2.5 cement mortar mopping, tamping & polishing 2. One coat of plain wet cement binder course; 3. 70 thick C15 concrete; 4. 150 thick pebble, grouting M2.5 mixed mortar; 5. Soil tamping.

PIAN



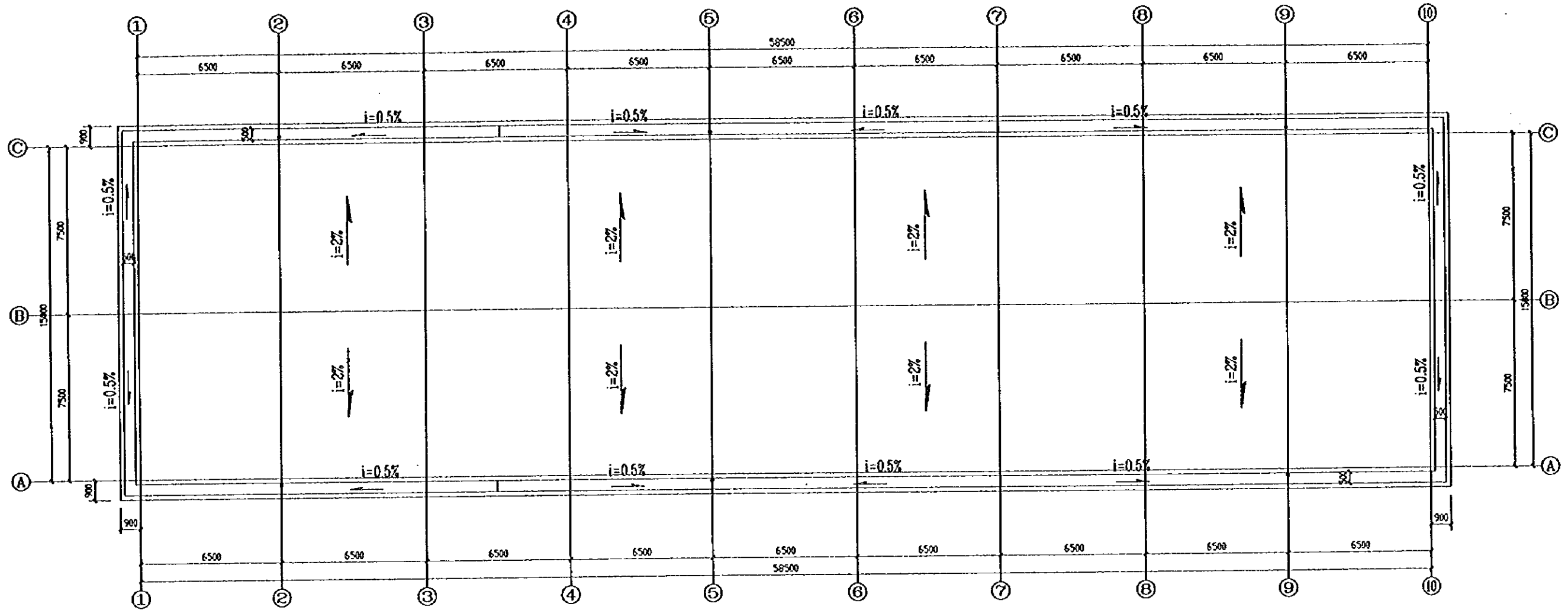
A - A SECTION

©--A ELEVATION

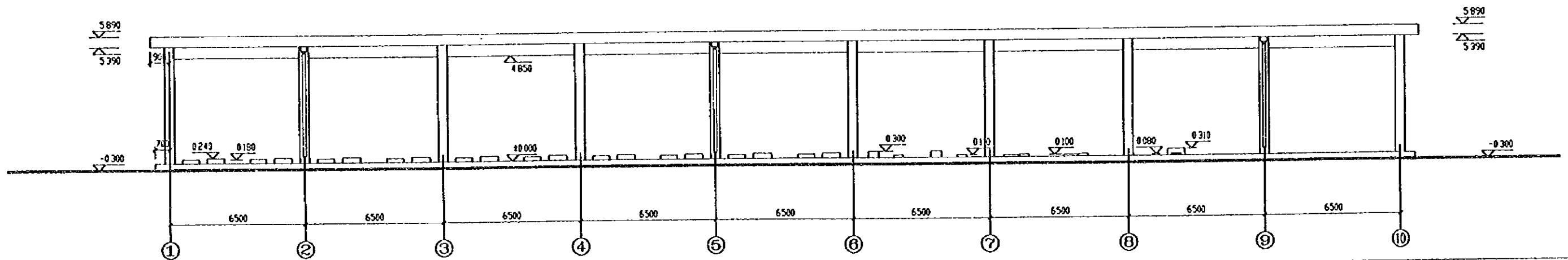
Design Introduction

Floor area: 58.95x15.45=910.78 m²

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
PUMP SHED	
PLAN, SECTION, ELEVATION AND BUILDING MATERIAL CONSTRUCTION TABLE	
SCALE	DWG3-202(1/2)
JAPAN INTERNATIONAL COOPERATION AGENCY	



ROOF PLAN



① — ⑩ ELEVATION

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
PUMP SHED	
ROOF PLAN AND 1~10 ELEVATION	
SCALE	DWG-A02(2/2)
JAPAN INTERNATIONAL COOPERATION AGENCY	

No.	Topping	Construction
Floor 1	Terazzo	
		1. 450x450x25 light green pre-cast terrozzon board, white cement pointing;
		2. Spread plain cement (with appropriate water);
		3. 30 thick 1:4 hard cement mortar binder course;
		4. One coat of plain wet cement;
		5. 110 thick C15 concrete;
		6. 150 thick pebble, grouting M2.5 mixed mortar;
		7. Soil tamping.
Floor 2	Floor Brick (with water-proof layer)	
		1. 10 thick Floor brick pavement, dry cement pointing;
		2. Spread plain cement (with appropriate water);
		3. 30 thick 1:4 hard cement mortar binder course;
		4. One coat of plain wet cement;
		5. 60 thick (highest point) 1:2:4 fine stone concrete flashing from door to drain, lowest point: no less th
		6. One-fell-two-asphalt water-proof layer, rolling up to 150 high all around, posting coarse sand;
		7. 40 thick 1:2:4 fine stone concrete, as plastering as levelling; with one coat of varnish coating;
		8. 150 thick pebble, grouting M2.5 mixed mortar;
		9. Soil tamping.
Apron 1	Concrete	
		1. 50 thick C15 concrete 1:1 cement mortar, tamping & polishing;
		2. 150 thick pebble, grouting M2.5 mixed mortar;
		3. Soil tamping, pitch to outside 4%.
Step 1	Terazzo	
		1. 450x450x25 light green pre-cast terrozzon board, white cement pointing;
		2. Spread plain cement (with appropriate water);
		3. 30 thick 1:4 hard cement mortar binder course;
		4. One coat of plain wet cement;
		5. 60 thick C15 concrete (thickness not include triangle part of tread), tread surface pitch to outside: 1%;
		6. 150 thick pebble, grouting M2.5 mixed mortar;
		7. Soil tamping (pitch as per engineering design).
Interior Wall	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.

No.	Topping	Construction
Interior Wall 2	Facing Brick: 3300 high	
		1. White cement pointing;
		2. Paste 5 thick white glazed brick;
		3. 8 thick 1:0.1:2.5 cement lime putty mortar binder course;
		4. 12 thick 1:3 cement mortar priming, deburring or scratching.
Building Floor 1	Plastic	
		1. 300 high light-green electrostatic-resisting movable floor;
		2. 20 thick 1:2.5 cement mortar levelling course;
		3. One coat of plain wet cement binder course;
		4. Cast-in-situ R.C.slab.
Building Floor 2	Terazzo	
		1. 450x450x25 light green pre-cast terrozzon board, white cement pointing;
		2. Spread plain cement (with appropriate water);
		3. 30 thick 1:4 hard cement mortar binder course.
Skirt 1	Terazzo: 120 high	
		1. White cement point;
		2. Paste 15 thick black terrozzo board;
		3. 12 thick 1:3 cement mortar.
Skirt 2	Plastic	
		1. 78 high green assembly-type plastic skirt;
		2. Metal skirt card to be fixed by plastic expanded clip.
Ceiling 1	Coating	
		1. Paint white scrubbing-resisting coating;
		2. 2 thick grummet finish coat;
		3. 6 thick 1:3:9 cement lime putty mortar;
		4. 2 thick 1:0.5:1 cement lime putty mortar priming;
		5. R.C. slab bottom to be brushed one coat of plain cement (mixing 107 glue with water 3%~5%).

PEOPLE'S REPUBLIC OF CHINA		
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT SEPTEMBER 1997		
ELECTRICAL BUILDING AND CONTROL ROOM		
BUILDING MATERIAL CONSTRUCTION TABLE (1)		
SCALE	NON SCALE	DWG3-AD3(1/5)
JAPAN INTERNATIONAL COOPERATION AGENCY		

No.	Topping	Construction
Ceiling 2	Gypsum Board Ceiling	
		1. Point white scrubbing-resisting coating;
		2. Full claircolle making & levelling;
		3. Brush one coat of emulsified oil;
		4. Double-layer 900x3000x9 paper-faced gypsum board, to be fixed by self-attached bolt;
		5. Small metal lath concave 19x25x0.5x3000
		6. Small metal lath concave 19x25x0.5x900;
		7. Medium-sized metal lath concave 19x50x0.5x900;
		8. Big metal lath concave 45x15x1.2x1200;
		9. 8 hanger bar two-way arrangement, 900--1200 expanded bolt fixing.
Roof 1	Small Stone Protection Layer (without persons)	
		1. Pave one layer of binded peastone of 3~6 in partical size;
		2. Ternary ethylene-propylene rubber rolled material water-proof layer;
		3. 20 thick 1:2.5 cement mortar levelling course;
		4. Pave 1:8 cement perlite thermal insulation layer, lowest point: 30; vibrating & tamping polishing (exhaust channel, PVC exhaust dust to be provided with vent spacing ofot more than 6ms as per Codes);
		5. 20 thick 1:3 cement mortar levelling course;
		6. R.C.slab.
Exterior Wall 1	Facing Brick	
		1. 1:1 cement mortar (fine sand) pointing;
		2. Paste 10 thick facing brick (as pasting as brushing one coat of Yj-302 type concrete interface treatment agent to increase binding force);
		3. 12 thick 1:0.2:2 cement lime putty mortar binder course;
		4. Brush one coat of plain wet cement (mixing 107 glue with water 3%~5%);
		5. 8 thick 1:3 cement mortar priming, deburring or scratching;
		6. Brush one coat of YJ-302 type concrete interface treatment agent (as brushing as plastering).
Romp 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).

No.	Topping	Construction
Pointing 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.
Pointing 2		1. Two coats of dark-green mixed point;
		2. Claircolle making;
		3. One coat of antirusting point.
Pointing 3		1. Two coats of antirusting point.
Osado 1	Point 1500h	
		1. Brush lusterless point;
		2. 5 thick 1:2.5 cement mortar finish coat, tamping & polishing;
		3. 13 thick 1:3 cement mortar priming, deburring or scratching.

PEOPLE'S REPUBLIC OF CHINA		
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT SEPTEMBER 1997		
ELECTRIAL BUILDING AND CONTROL ROOM		
BUILDING MATERIAL CONSTRUCTION TABLE (2)		
SCALE	NON SCALE	DWGJ-A03(2/5)
JAPAN INTERNATIONAL COOPERATION AGENCY		

BUILDING CONSTRUCTION TABLE

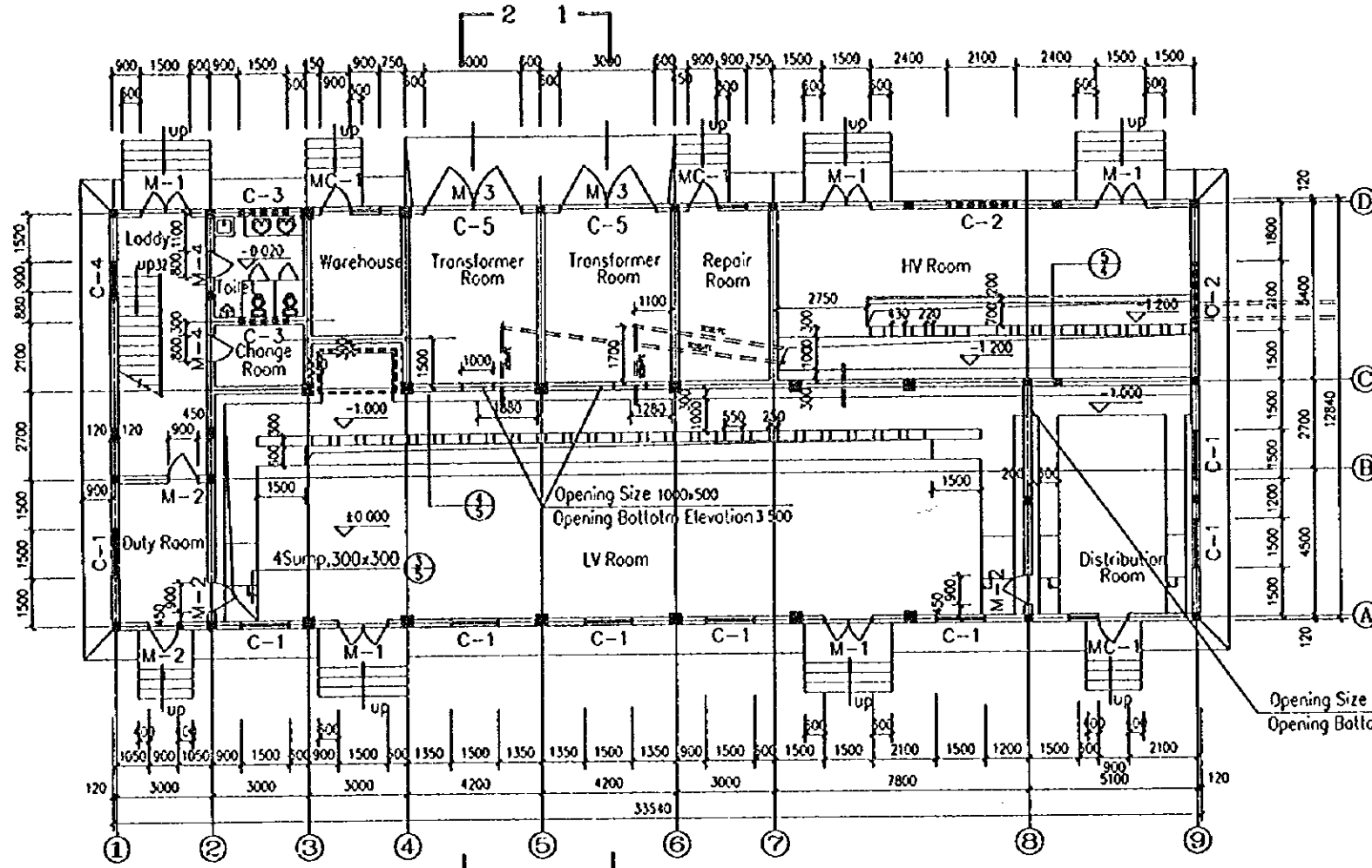
	Name	Floor		Interior Wall		Skirt&Dado		Ceiling		Roof of Room
		Topping	Construction	Topping	Construction	Topping	Construction	Topping	Construction	Construction
1st floor	Lobby	Terazzo	Floor 1	Coating	Interior Wall 1	Terazzo	Skirt 1	Coating	Ceiling 1	
	Duty Room	Terazzo	Floor 1	Coating	Interior Wall 1	Terazzo	Skirt 1	Gypsum board	Ceiling 2	
	LV Room	Terazzo	Floor 1	Coating	Interior Wall 1	Point	Dado 1	Coating	Ceiling 1	Roof 1
	Transformer Room	Terazzo	Floor 1	Coating	Interior Wall 1	Point	Dado 1	Coating	Ceiling 1	Roof 1
	Distribution Room	Terazzo	Floor 1	Coating	Interior Wall 1	Point	Dado 1	Coating	Ceiling 1	Roof 1
	Warehouse	Terazzo	Floor 1	Coating	Interior Wall 1	Point	Dado 1	Coating	Ceiling 1	
	Change Room	Terazzo	Floor 1	Coating	Interior Wall 1	Terazzo	Skirt 1	Gypsum board	Ceiling 2	
	Repair Room	Terazzo	Floor 1	Coating	Interior Wall 1	Point	Dado 1	Coating	Ceiling 1	Roof 1
	HV Room	Terazzo	Floor 1	Coating	Interior Wall 1	Point	Dado 1	Coating	Ceiling 1	Roof 1
	Toilet	Floor Brick	Floor 2	Facing brick	Interior Wall 2			Gypsum board	Ceiling 2	
Stair Room	Terazzo	Building Floor 2	Coating	Interior Wall 1	Terazzo	Skirt 1	Coating	Ceiling 1		
2st floor	Stair Room	Terazzo	Building Floor 2	Coating	Interior Wall 1	Terazzo	Skirt 1	Coating	Ceiling 1	Roof 1
	Control Room	Plastic	Building Floor 2	Coating	Interior Wall 1	Plastic	Skirt 2	Gypsum board	Ceiling 2	Roof 1
	Duty Room	Terazzo	Building Floor 1	Coating	Interior Wall 1	Terazzo	Skirt 1	Gypsum board	Ceiling 2	Roof 1

Note: Ceiling of 1st floor is 3m from floor

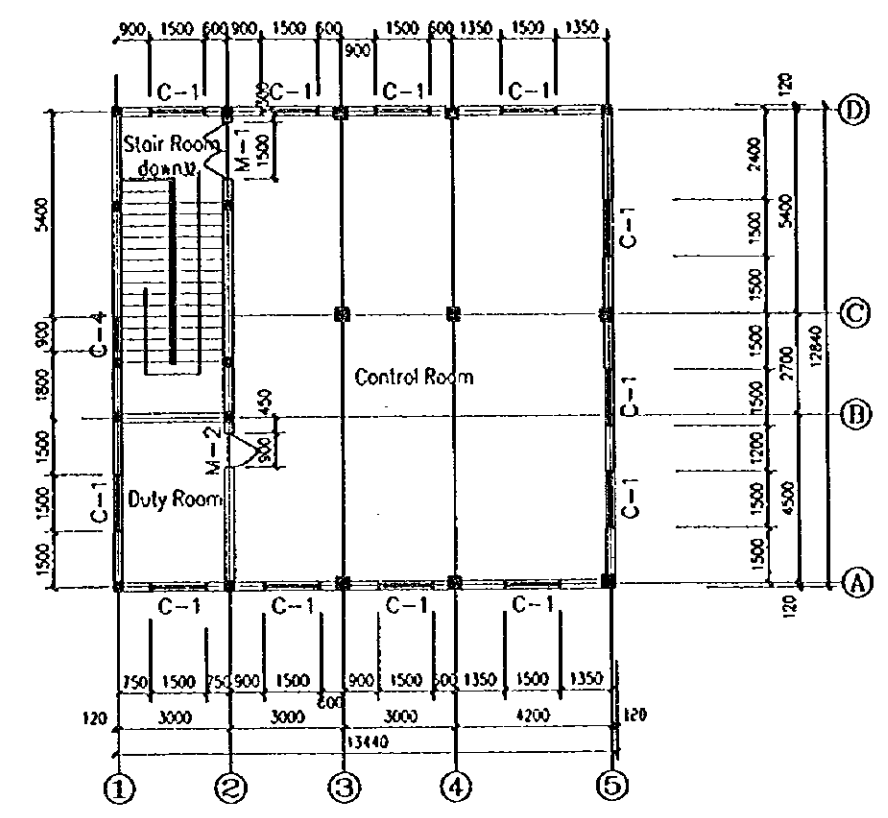
DOOR & WINDOW TABLE

Name	Type	Opening Size	Standard Dwg.	Number	Remark
C1	aluminum alloy sliding window	3000x1800	#91J604-TC3018	4	white,with screening
C2	aluminum alloy sliding window	900x1800	#91J604-PC0918	2	white,with screening
C3	aluminum alloy window	5419x1800		4	white,fixed window
C4	aluminum alloy window	4500x2100		1	white
C5	aluminum alloy sliding window	3000x900	#91J604-TC3009	1	white,higher window,with screening
C6	aluminum alloy sliding window	1800x900	#91J604-TC1809	4	white,higher window,with screening
M1	wooden door	900x2700	J642 M46-0927	8	
M2	wooden door	900x2700	J642 M22-0927	2	
M3	wooden door	1500x2700	J652 M22-1527	2	
LM-1	aluminum alloy door-linking-window	4660x2700		1	
LM-2	aluminum alloy door-linking-window	1800x2700		1	

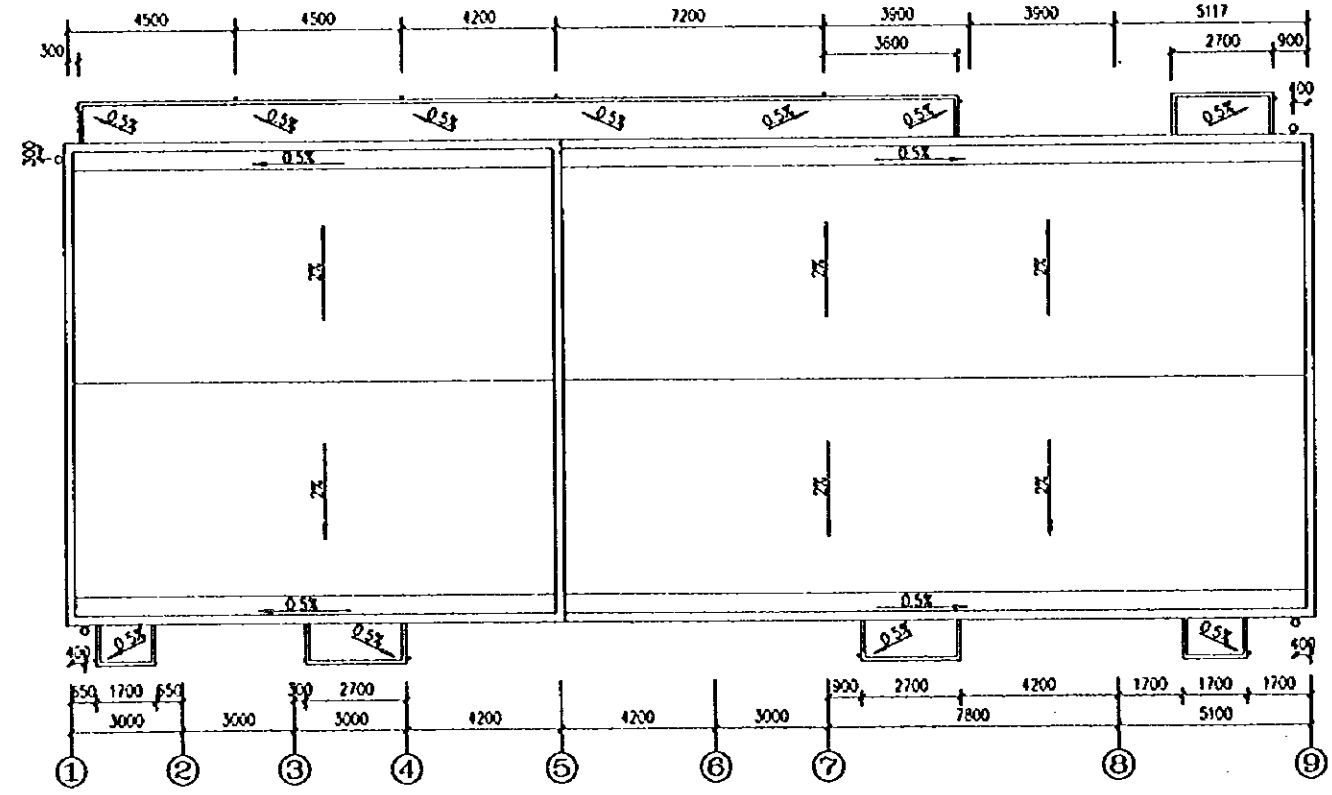
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
ELECTRICAL BUILDING AND CONTROL ROOM	
BUILDING CONSTRUCTION TABLE AND DOOR & WINDOW TABLE	
SCALE	NON SCALE DWG3-A03(1/5)
JAPAN INTERNATIONAL COOPERATION AGENCY	



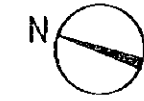
1ST FLOOR PLAN 1:100



2ND FLOOR PLAN 1:100



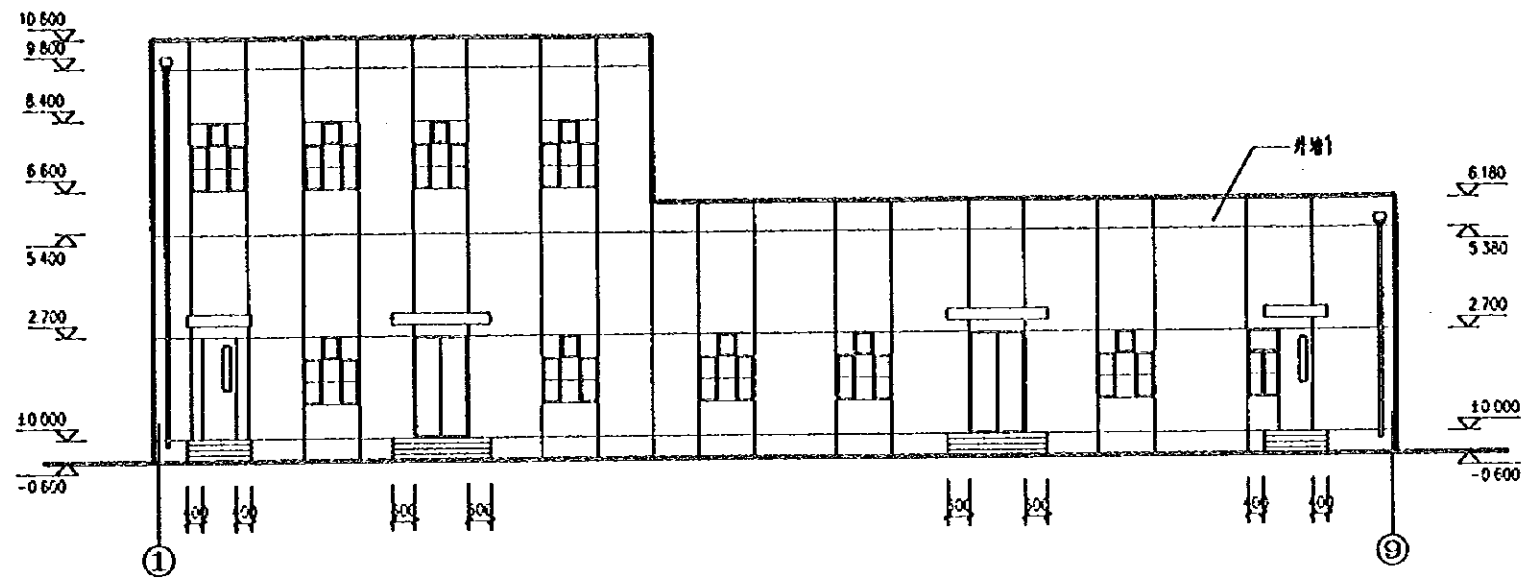
ROOF PLAN 1:100



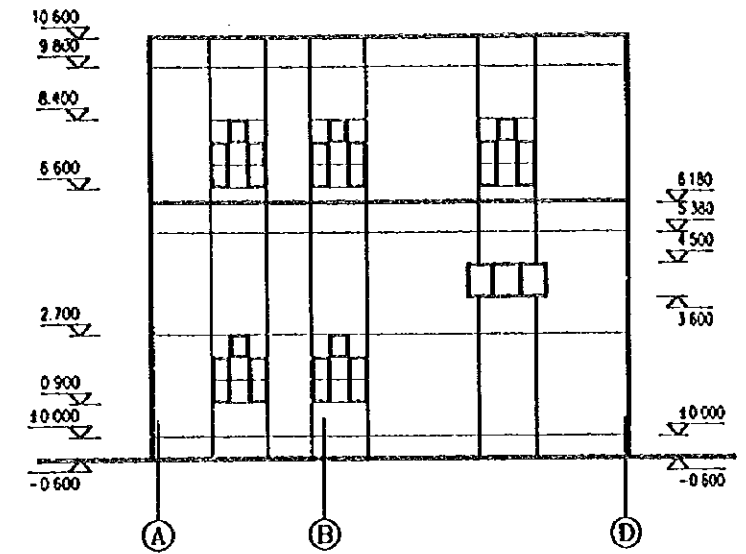
Note:
 Burying depth of electrical speciality is -1.000,
 specific positions and dimensions refer to Electrical Drawing.
 Opening size:WxH, opening positioning is central axis positioning.
 Outdoor step elevations are -0.020.

	AREA
1ST FLOOR	33.54x12.84=430.65 M ²
2ND FLOOR	13.44x12.84=172.57 M ²
TOTAL	430.65+172.57=603.22 M ²

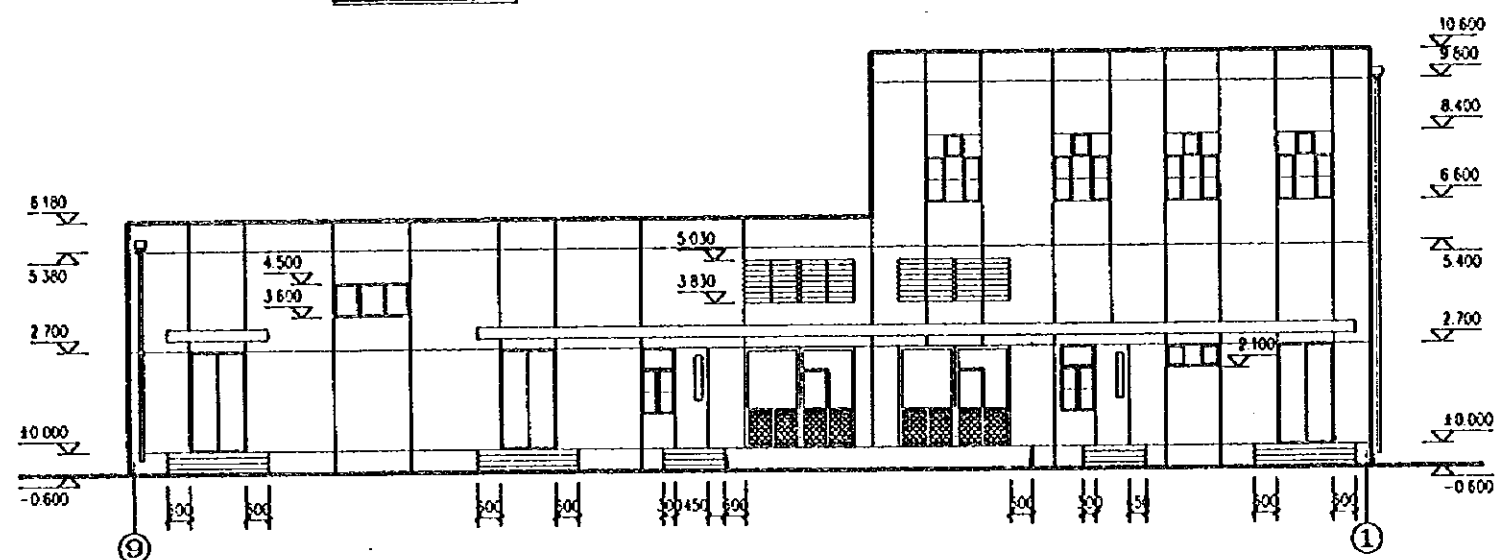
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
ELECTRICAL BUILDING AND CONTROL ROOM	
1ST FLOOR PLAN, 2ND FLOOR PLAN AND ROOF PLAN	
SCALE	1:100
JAPAN INTERNATIONAL COOPERATION AGENCY	



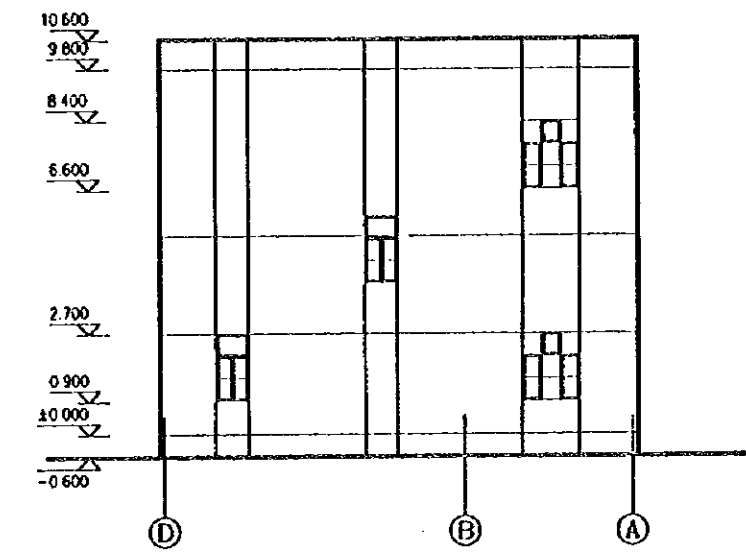
①-⑨ ELEVATION 1:100



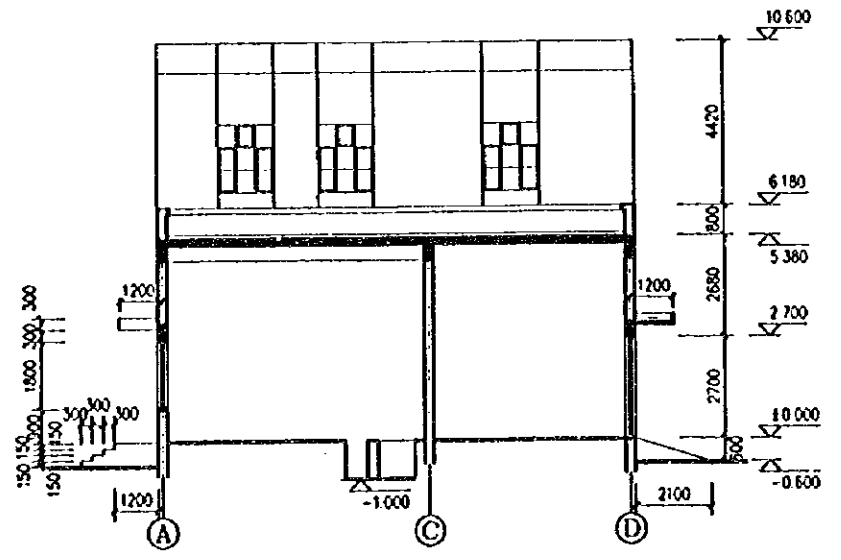
A-D ELEVATION 1:100



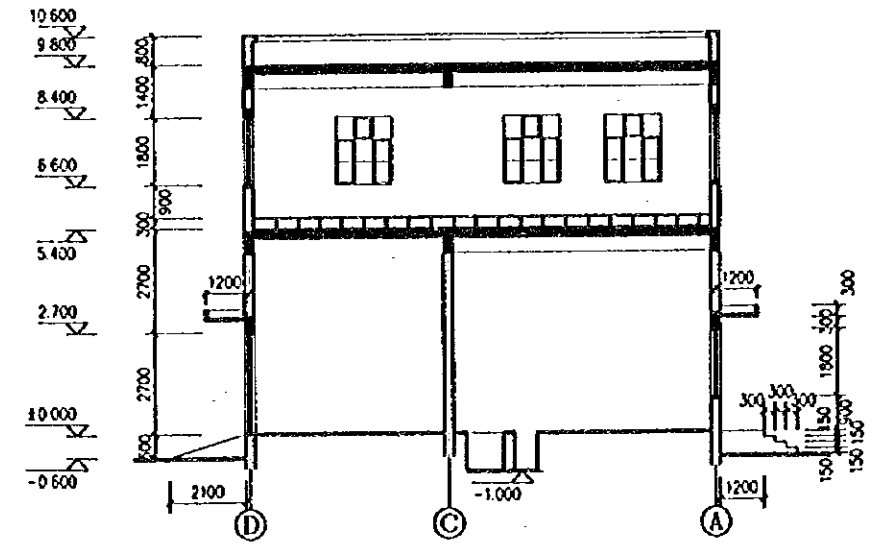
⑨-① ELEVATION: 100



⑨-A Elevation 1:100



1-1 SECTION 1:100



2-2 SECTION 1:100

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
ELECTRICAL BUILDING AND CONTROL ROOM	
ELEVATIONS AND SECTIONS	
SCALE	DWG3-A03(5/5)
JAPAN INTERNATIONAL COOPERATION AGENCY	

BUILDING MATERIAL CONSTRUCTION TABLE

No.	Topping	Construction
Roof 1	Small Stone Protection Layer (without persons)	<ol style="list-style-type: none"> 1. Pave one layer of binded peastone of 3-6 in portical size; 2. Ternory ethylene-propylene rubber rolled material water-proof layer; 3. 20 thick 1:2.5 cement mortar levelling course; 4. Pave 1:8 cement perlite thermal insulation layer, lowest point: 30, 2% pitch, vibrating & tamping, polishing (exhaust channel, PVC exhaust dust to be provided with vent spacing of not more than 6ms as per Codes); 5. 20 thick 1:3 cement mortar levelling course; 6. R.C. slab
Ceiling 1	Coating	<ol style="list-style-type: none"> 1. Point 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%).
Floor 1	Floor brick	<ol style="list-style-type: none"> 1. 10 thick floor brick pavement, dry cement pointing; 2. Spread plain cement (with appropriate); 3. 30 thick 1:4 hord 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.
Floor 2	Cement	<ol style="list-style-type: none"> 1. 20 thick 1:2.5 cement mortar mopping, tamping & polishing 2. One coat of plain wet cement binder course; 3. 70 thick C15 concrete; 4. 150 thick pebble, grouting M2.5 mixed mortar; 5. Soil tamping.
Dado 1	Dado Paint	<ol style="list-style-type: none"> 1. Brush lusterless point; 2. 6 thick 1:2.5 cement mortar finish coat, tamping & polishing; 3. 15 thick 1:3 cement mortar priming, deburring or scrotching.
Skirt 1	Facing brick	<ol style="list-style-type: none"> 1. poste 5 thick gozed brick skirt; 2. 12 thick 1:2 cement mortar priming, deburring or scrotching; 3. Brush one coat of 107 glue solution: proportion rotion between 107 glue ond water=1:4
Skirt 2	Cenent 120 high	<ol style="list-style-type: none"> 1. 6 thick 1:2.5 cement mortar finish coat, tamping & polishing; 2. 6 thick 1:3 cement mortar priming, deburring or scrotching.

No.	Topping	Construction
Interior Wall 1	Coating	<ol style="list-style-type: none"> 1. Point interior wall coating; 2. 2 thick grummet finish coat; 3. 8 thick 1:3 fine putty mortar; 4. 13 thick 1:3 lime putty mortar priming.
Exterior Wall 1	Facing Brick	<ol style="list-style-type: none"> 1. 1:1 cement mortar (fine sand) pointing; 2. Poste 10 thick facing brick; 3. 12 thick 1:0.2:2 cement lime putty mortar course; 4. Brush one coat of plain wet cement (mixing 107 glue with woler 3%-5%) 5. 8 thick 1:3 cement mortar priming, deburring or scrotching.

BUILDING CONSTRUCTION TABLE

Construction Name of Room	Floor		Interior Wall	Skirt		Dado	Ceiling	Roof	Exterior Wall
	Foor 1	Foor 2	Interior Wall 1	Skirt 1	Skirt 2	Dado 1	Ceiling 1	Roof 1	Exterior Wall 1
Duty Room	○		○	○		○	○	○	○
Pump Room		○	○		○	○	○	○	○

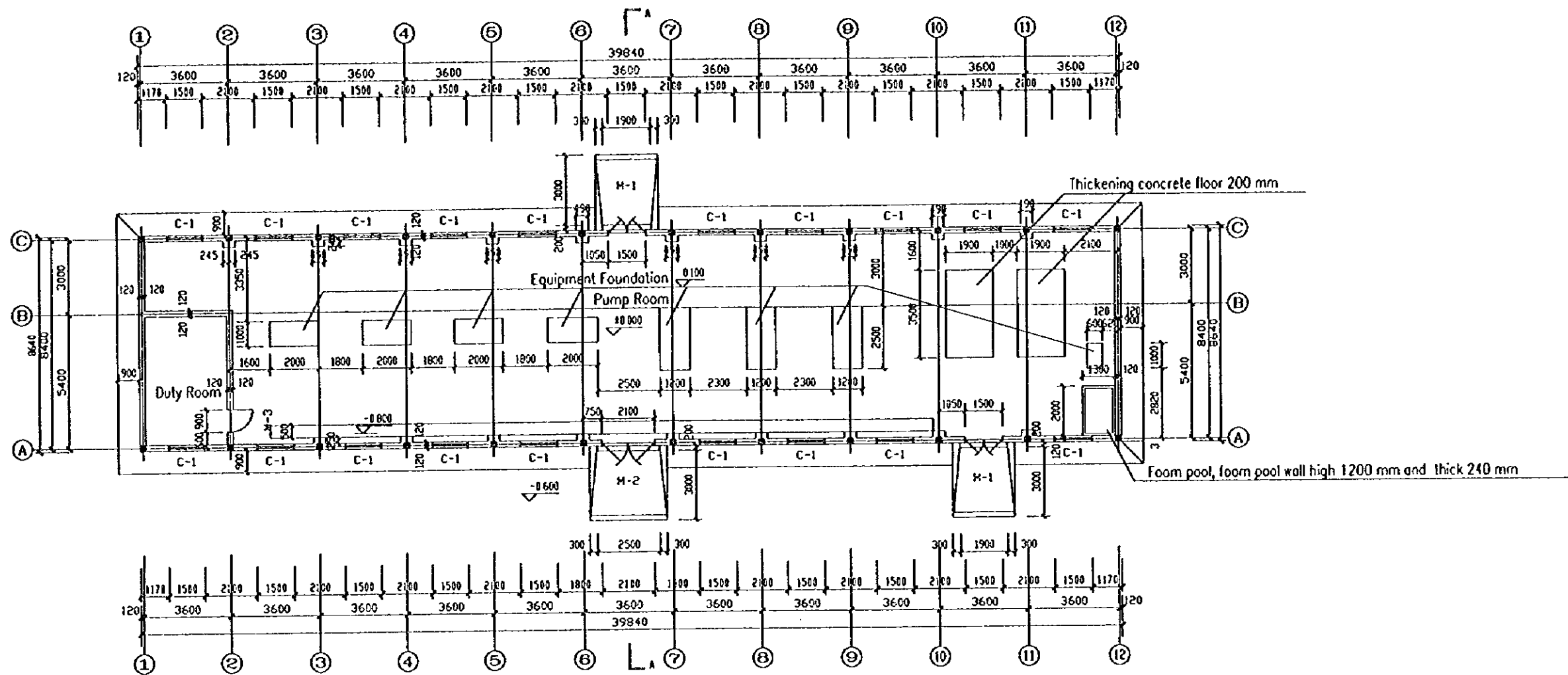
DOOR & WINDOW TABLE

NO.	Type	No. of Door and Window	Opening Size	Number	Standard Dwg		Remark
			WxH (mm)		No. of Dwg	No. of Door and Window	
1	Window	C-1	1500X1800	19	92SJ713(四)	TLC90-09	Alluminum alloy sliding window
2	Door	M-1	1500X2700	2	J642	M26-1527	Wooden door
3		M-2	2100X2700	1	J642	M22-2127	Wooden door
4		M-3	900X2100	2	J642	M45-0921	Wooden door

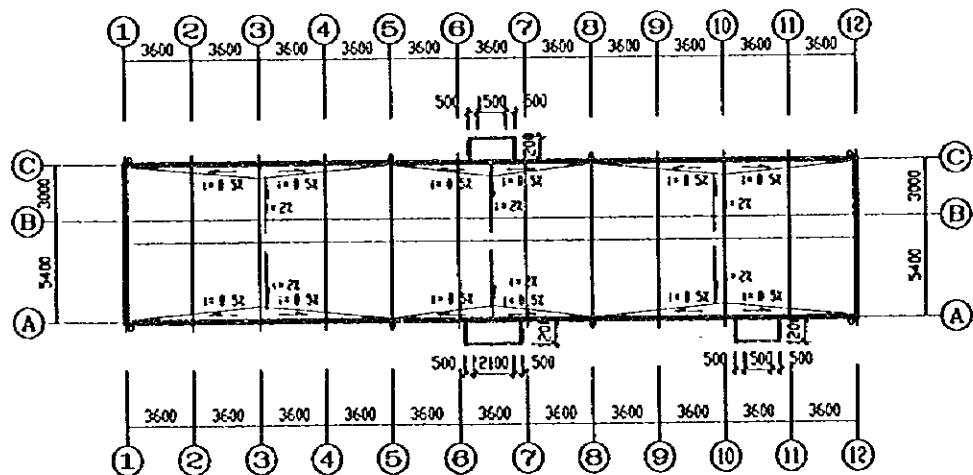
Design Introduction

Foor area: 39.84X8.64=344.22 m2

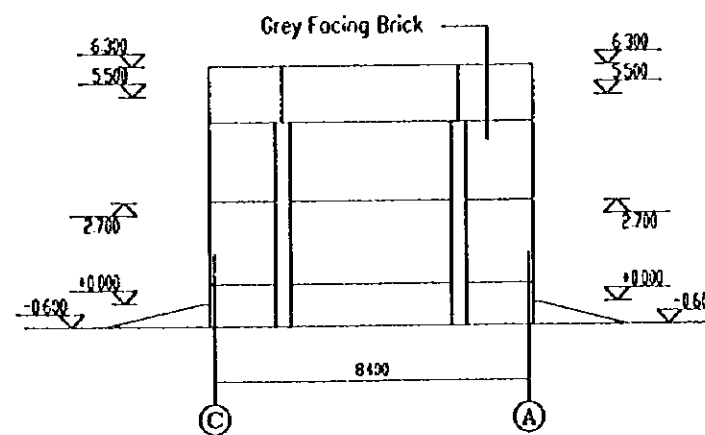
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
FIRE PUMP BUILDING	
BUILDING MATERIAL CONSTRUCTION TABLE, BUILDING CONSTRUCTION TABLE #3-BUILDING WINDOW TABLE	
SCALE NON SCALE	DWG3-NO4(1/3)
JAPAN INTERNATIONAL COOPERATION AGENCY	



PLAN

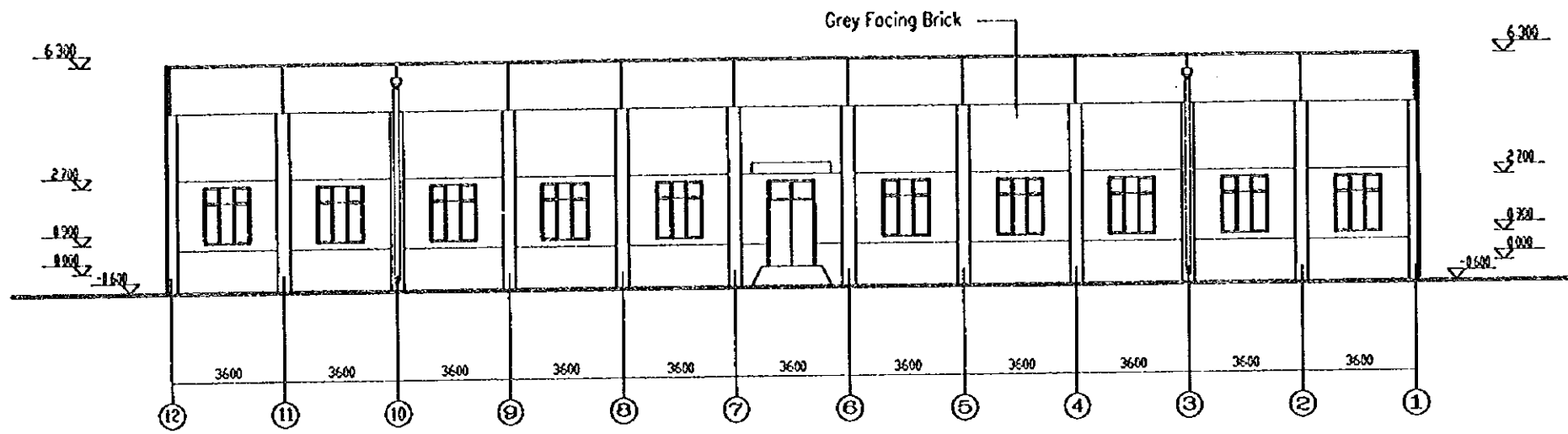


ROOF PLAN

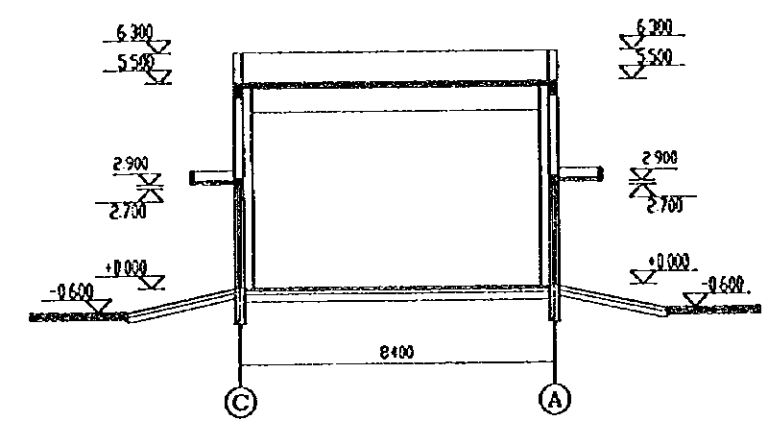


C — A ELEVATION

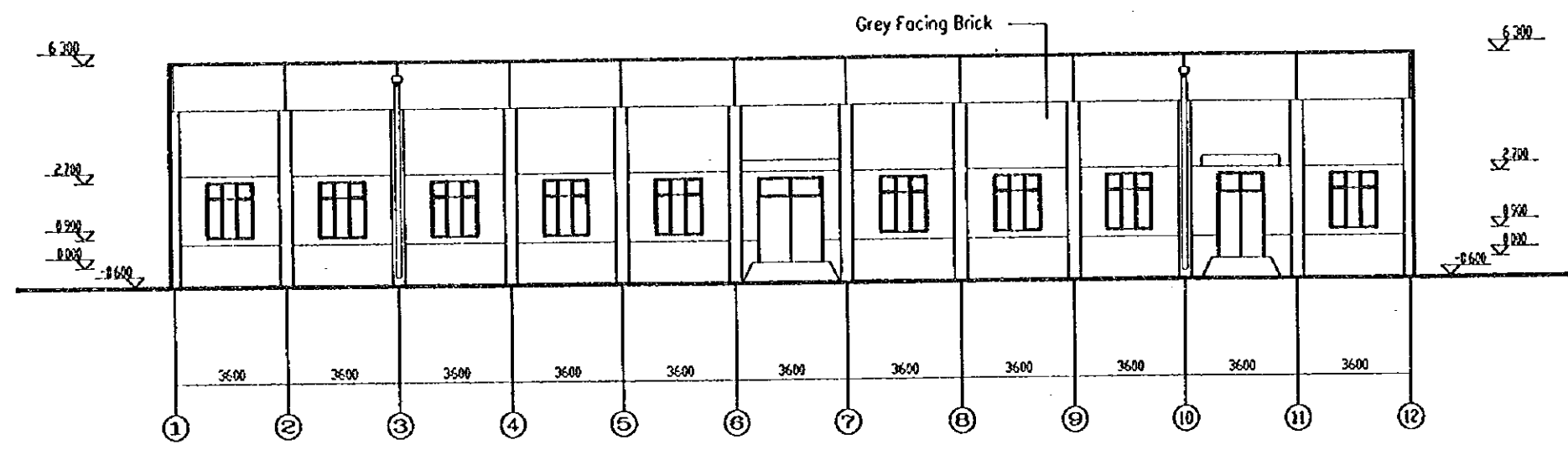
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
FIRE PUMP BUILDING	
PLAN, ROOF PLAN AND C-A ELEVATION	
SCALE	DWG3-A04(2/3)
JAPAN INTERNATIONAL COOPERATION AGENCY	



⑫ — ① ELEVATION

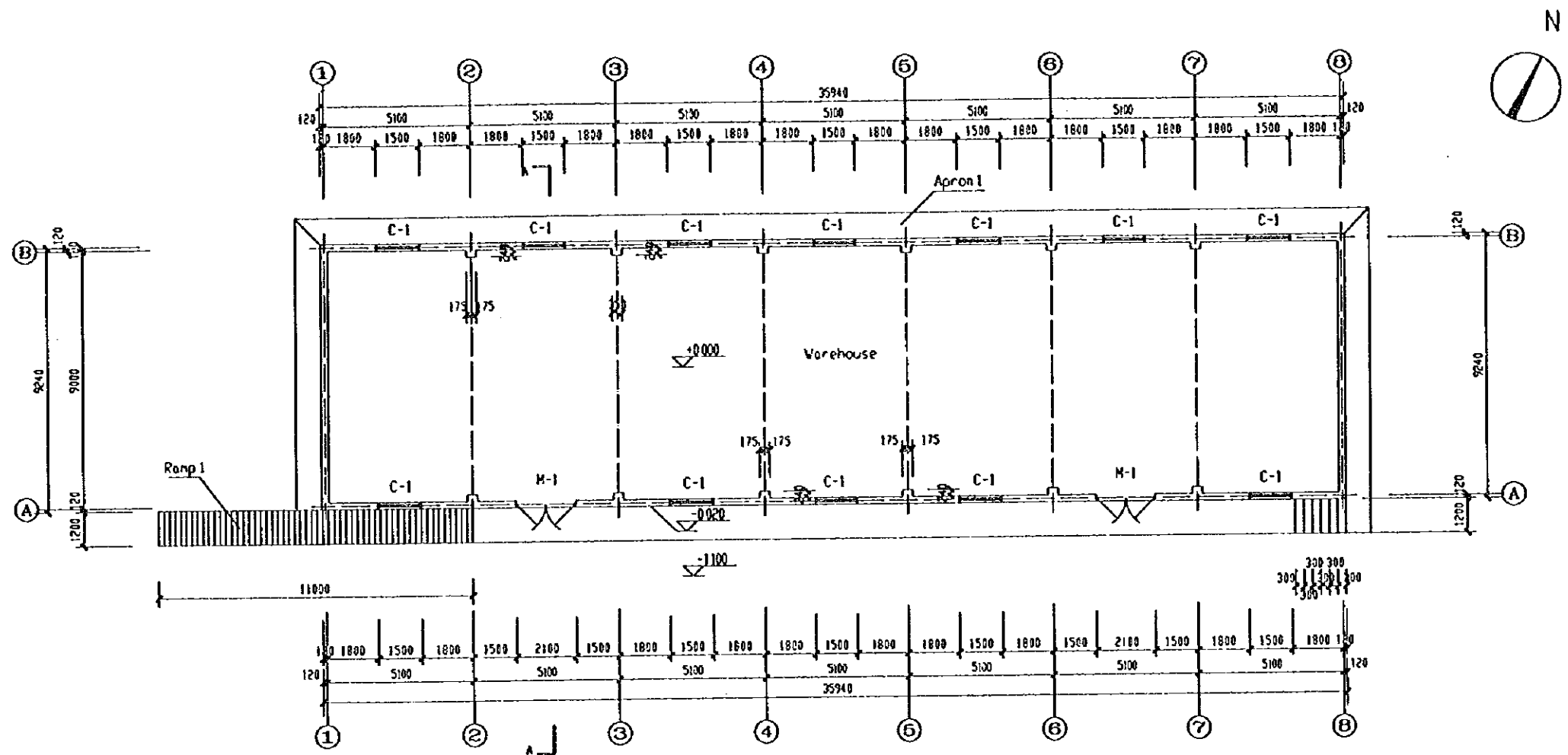


A - A SECTION

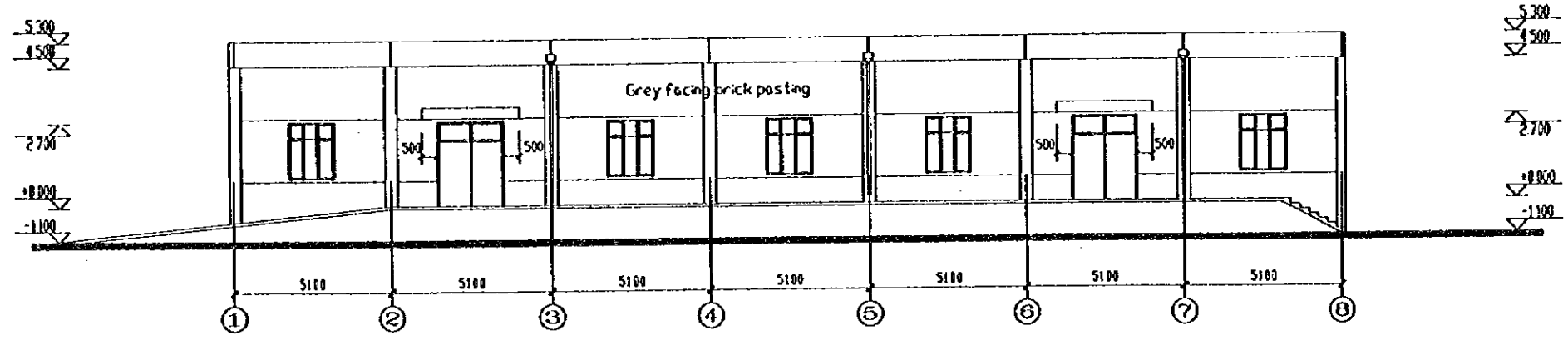


① — ⑫ ELEVATION

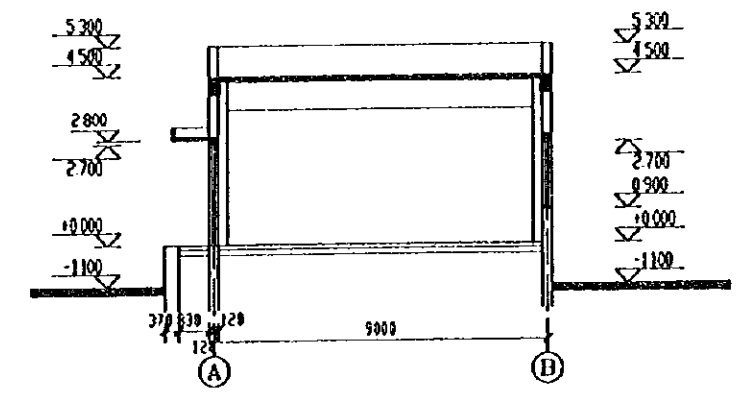
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
FIRE PUMP BUILDING	
1~12 ELEVATION, 12~1 ELEVATION AND SECTION	
SCALE	DWG3-A04(3/3)
JAPAN INTERNATIONAL COOPERATION AGENCY	



PLAN 1:100

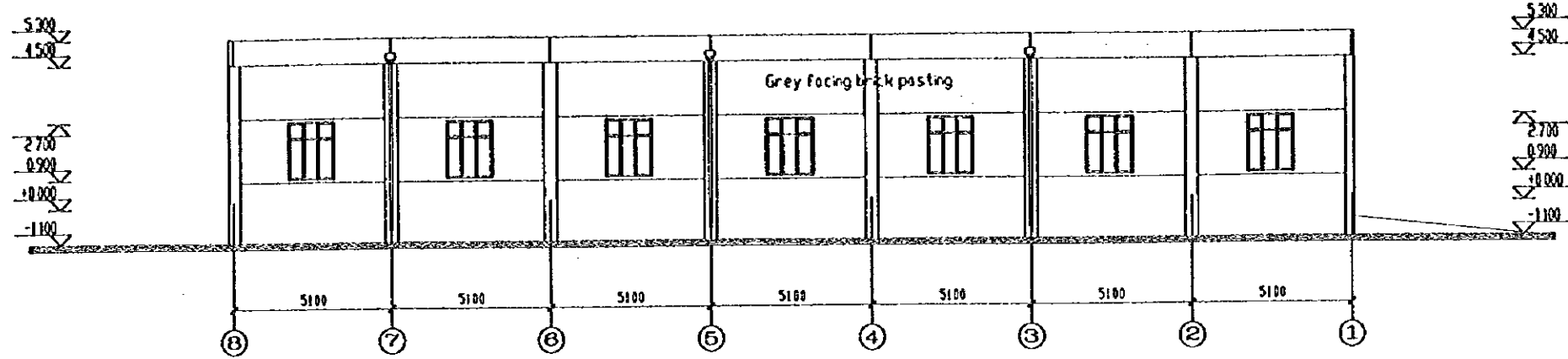


① — ⑧ ELEVATION 1:100

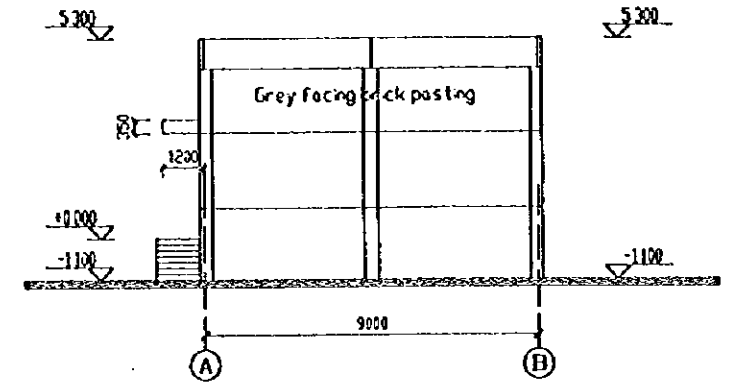


A - A SECTION 1:100

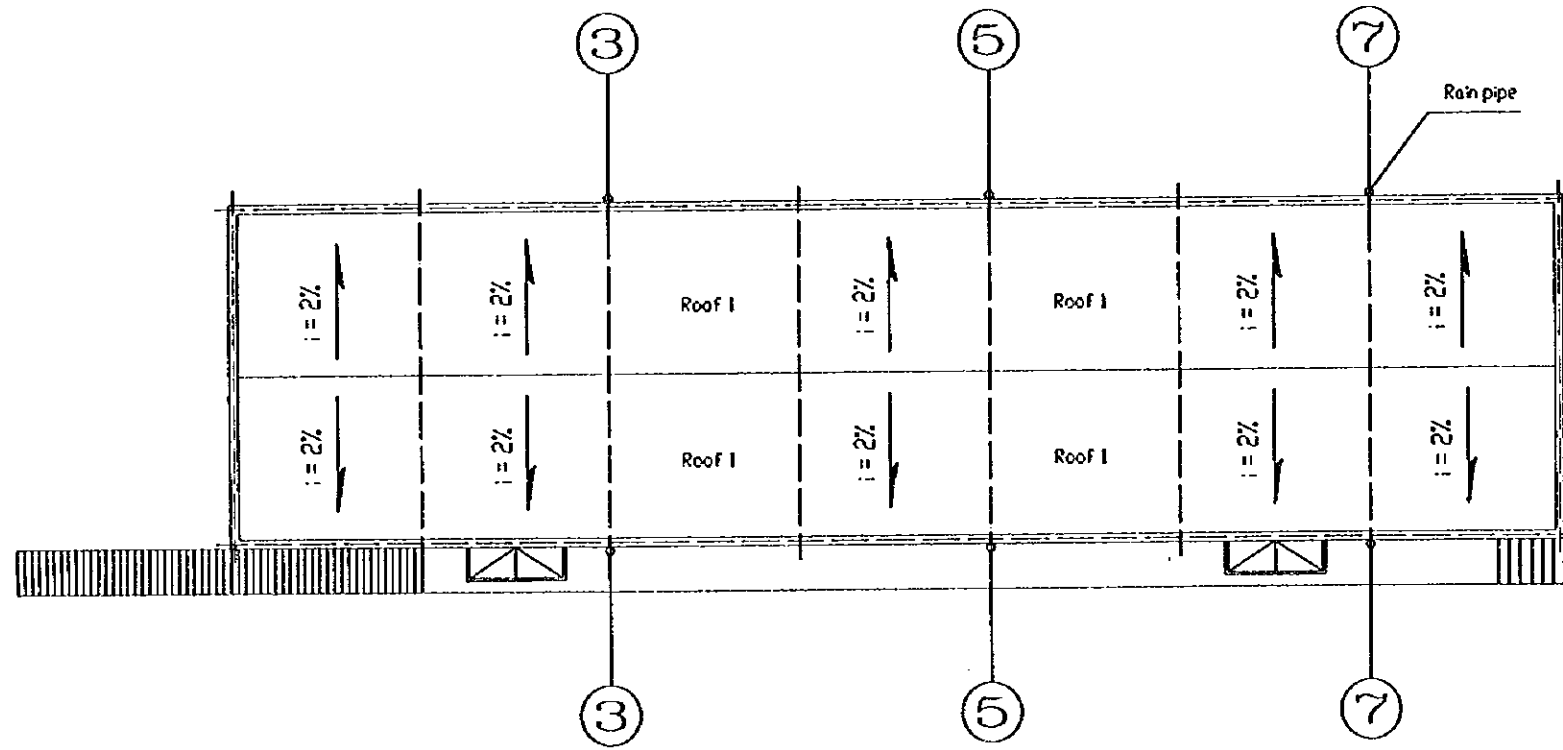
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
WAREHOUSE	
PLAN, 1~8 ELEVATION AND A-A SECTION	
SCALE	DWG3-A05(1/3)
JAPAN INTERNATIONAL COOPERATION AGENCY	



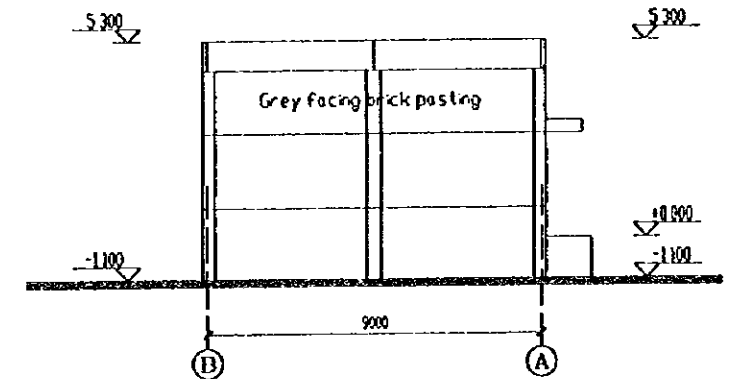
⑧ — ① ELEVATION 1:100



⑧ — ① ELEVATION 1:100



ROOF PLAN 1:200



⑧ — ① ELEVATION 1:100

DOOR & WINDOW TABLE

No	Series No	Opening Size (W×H)	Number	Standard Drawing	Standard No.	Remark
1	M-1	2100×2700	2			Wooden door
2	C-1	1500×1800	12	92SJ713(E)	29	ALuminum Alloy window

BUILDING CONSTRUCTION TABLE

Name of Room	Floor		Interior Wall		Skirt		Ceiling		Roof
	Topping	Construction	Topping	Construction	Topping	Construction	Topping	Construction	
Warehouse	Cement	Floor I	Coating	Interior Wall I	Cement	Skirt I	Coating	Ceiling I	Roof I
Outdoor Platform	Cement	Floor I	Facing Brick	Exterior Wall I					

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
WAREHOUSE	
#-1 ELEVATION, #-2 ELEVATION, #-3 ELEVATION, ROOF PLAN, DOOR & WINDOW TABLE, BUILDING CONSTRUCTION TABLE	
SCALE	DWG3-A05(2/3)
JAPAN INTERNATIONAL COOPERATION AGENCY	

BUILDING MATERIAL CONSTRUCTION TABLE 1

No	Topping	Construction
Floor 1	Cement	1. 20 thick 12.5 cement mortar topping, tamping & polishing; 2. One coat of plain net cement binder course; 3. 70 thick C15 concrete; 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 & polishing; 2. 150 thick pebble, grouting M2.5 mixed mortar; 3. Soil tamping, pitch 4%.
Ramp 1	Cement ramp	1. 25 thick 1:2 cement mortar topping, as sawtooth shape, width-60, depth-7; 2. One coat of plain net cement binder course; 3. 100 thick C15 concrete; 4. 300 thick 3:7 fine scaly (no step); 5. Soil tamping.
Interior wall 1	Coating	1. Paint interior wall coating; 2. 2 thick grunnet finish coat; 3. 8 thick 1:3 fine putty mortar; 4. 13 thick 1:3 fine putty mortar priming;

BUILDING MATERIAL CONSTRUCTION TABLE 2

No	Topping	Construction
Skirt 1	Cement	1. 6 thick 12.5 cement mortar finish coat, tamping & polishing; 2. 6 thick 1:3 cement mortar priming, deburring or scratching.
Ceiling 1	Coating	1. Paint ceiling coating; 2. 2 thick grunnet finish coat; 3. 6 thick 1:3 cement fine putty mortar; 4. 2 thick 1:0.5 cement fine putty mortar priming; 5. RC slab bottom to be brushed with one coat of plain net cement/mixing 107 glue with water 3%-5%.
Roof 1	Half-sized stone protection layer (without person)	1. Pave one layer of binded peastone of 3-6 in particle size. 2. Ternary ethylene-propylene rubber rolled material water-proof layer; 3. 20 thick 12.5 cement mortar levelling; 4. Pave 18 cement perlite thermal insulating layer, lowest point is 30 thick, pitch of 2%, vibrating & tamping, polishing. (exhaust trench, PVC exhaust duct to be provided with vent spacing of not more than 6 m, as per Codes.) 5. 20 thick 1:3 cement mortar levelling; 6. RC slab.

BUILDING MATERIAL CONSTRUCTION TABLE 3

No	Topping	Construction
Exterior wall 1	Facing brick	1. 11 cement mortar (fine sand) pointing; 2. Paste 10 thick facing brick (as pasting as brushing one coat of YJ-302 type concrete interface treatment agent to increase binding force); 3. 12 thick 1:0.2 cement fine putty mortar binder course; 4. Brush one coat of plain net cement (mixing 107 glue with water 3%-5%); 5. 8 thick 1:3 cement mortar priming, deburring or scratching; 6. Brush one coat of YJ-302 type concrete interface treatment agent (as brushing as plastering).

Design Introduction

- The planar position and outdoor elevation of building refer to general drawings. indoor & outdoor height differential: 0.600m.
- Design basis: The project is designed based on preliminary design and preliminary design approving documents.
- Floor area: 35.91x9.24=332.09m².
- Wall:
 - Interior & exterior thickness: 240mm, to be constructed by brick of M 7.5 and U 7.5 cement mortar.
 - All brick walls shall be provided with 20 thick 1:2 cement mortar damp-proof layer at -0.060m, mixing 3%-5% of water-proof agent.
- Dimensions and elevations in the drawing shall be calculated in m and n respectively.
- Close coordination shall be maintained between each speciality and acceptance shall be done as per national standards.
- Corrosion-proof treatment shall be done for all built-in parts.

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
WAREHOUSE	
BUILDING MATERIAL CONSTRUCTION TABLE	
SCALE: NON SCALE	DWG3-A05(3/3)
JAPAN INTERNATIONAL COOPERATION AGENCY	

BUILDING MATERIAL CONSTRUCTION TABLE

No.	Topping	Construction
Roof 1	Smooth Stone Protection Layer (without persons)	<ol style="list-style-type: none"> 1. Pave one layer of binded peastone of 3-6 in portical size; 2. Ternary ethylene-propylene rubber rolled material water-proof layer; 3. 20 thick 1:2.5 cement mortar levelling course; 4. Pave 1:8 cement perlite thermal insulation layer, lowest point: 30, 2% pitch, vibrating & tamping, polishing (exhaust channel, PVC exhaust dust to be provided with vent spacing of not more than 6ms as per Codes); 5. 20 thick 1:3 cement mortar levelling course; 6. R.C slob
Ceiling 1	Coating	<ol style="list-style-type: none"> 1. Point 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. slob bottom to be brushed one coat of plain wet cement (mixing 107 glue with water 3%-5%).
Floor 1	Floor brick	<ol style="list-style-type: none"> 1. 10 thick floor brick pavement, dry cement pointing; 2. Spread plain cement (with appropriate); 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.
Floor 2 (with water-proof layer)	Floor brick	<ol style="list-style-type: none"> 1. 10 thick floor brick pavement, dry cement pointing; 2. Spread plain cement (with appropriate water); 3. 30 thick 1:4 hard cement mortar binder course; 4. One coat of plain wet cement 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-felt-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 3	Floor Brick (corrosion-resisting)	<ol style="list-style-type: none"> 1. 15 thick acid-resisting floor brick pavement, water-glass acid-resisting mortar pointing; 2. 10 thick water-glass acid-resisting mortar binder course; 3. 20 thick water-glass acid-resisting mortar levelling course; 4. Two-felt-three-asphalt water-proof layer, rolling up to 150 high all around, pasting coarse sand; 5. 20 thick 1:3 cement mortar levelling course; 6. One coat of plain wet cement; 7. 100 thick C15 concrete 8. Soil tamping

No.	Topping	Construction
Interior Wall 1	Coating	<ol style="list-style-type: none"> 1. Point 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 motor binder course; 4. 12 thick 1:3 cement mortar priming, deburring or scratching.
Exterior Wall 1	Facing Brick	<ol style="list-style-type: none"> 1. 1:1 cement mortar (fine sand) pointing; 2. Paste 10 thick facing brick; 3. 12 thick 1:0.2:2 cement lime putty mortar 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.
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 ration between 107 glue and water = 1:4
Dado 1	Dado Paint	<ol style="list-style-type: none"> 1. Brush lusterless point; 2. 6 thick 1:2.5 cement mortar finish coat, tamping & polishing; 3. 15 thick 1:3 cement mortar priming, deburring or scratching.

DOOR & WINDOW TABLE

No.	Type	No. of door and window	Opening Size		Number	Standard Dwg		Remark
			WxH (mm)			No. of dwg	No. of door and window	
1	Window	C-1	1500X1800		13	92SJ713(四)	TLC90-09	Aluminum alloy sliding window
2	Door	M-1	900X2100		11	J642	M45-0921	Wooden door
3		M-2	1500X2100		1	J642	M45-1521	Wooden door
4		M-3	3000X2700		1	J642	92SJ607(-)	Aluminum alloy glass spring door

Design Introduction

Foor area 44.86X13.44=603.19m2

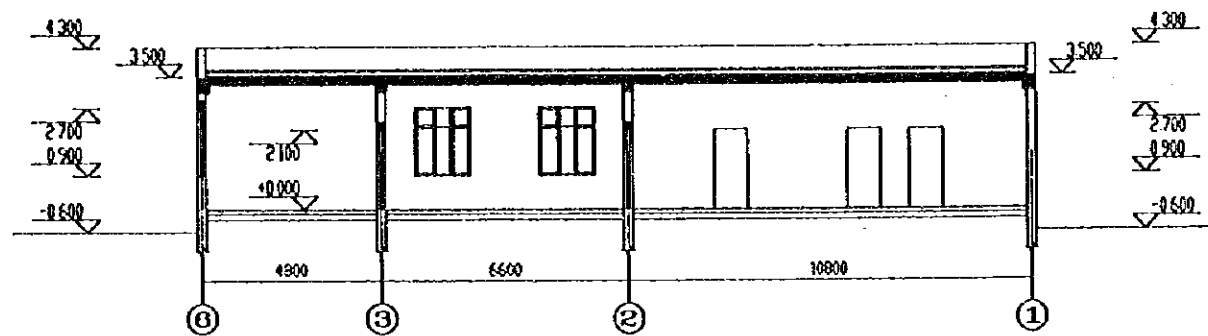
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
LABORTORY	
BUILDING MATERIAL CONSTRUCTION TABLE AND DOOR & WINDOW TABLE	
SCALE NON SCALE	DWG3-AD6(1/4)
JAPAN INTERNATIONAL COOPERATION AGENCY	

BUILDING CONSTRUCTION TABLE

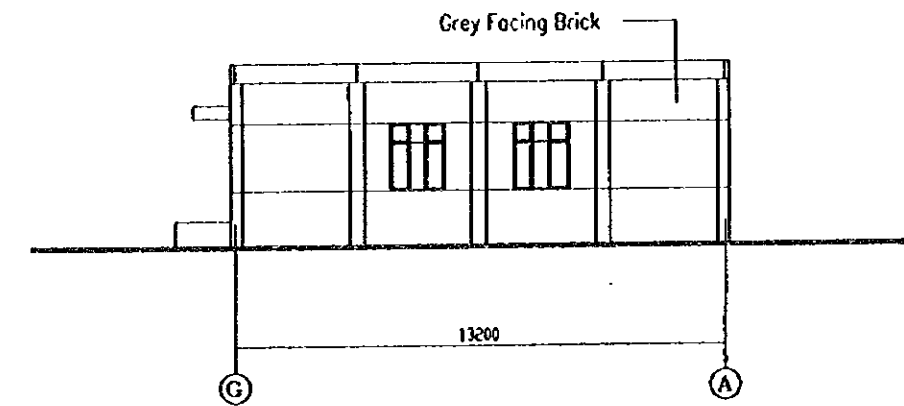
Construction Name of Room	Floor			Interior Wall		Skirt	Dado	Ceiling	Roof	Exterior Wall
	Floor 1	Floor 2	Floor 3	Interior Wall 1	Interior Wall 2	Skirt 1	Dado 1	Ceiling 1	Roof 1	Exterior Wall 1
Corridor	○			○		○	○	○	○	○
Lobby	○			○		○	○	○	○	○
Toilet		○			○			○	○	○
Air Compressor Room	○			○		○	○	○	○	○
Lab			○	○		○	○	○	○	○
Smoke Room	○			○		○	○	○	○	○
Office	○			○		○	○	○	○	○
Bottle Cleaning Room			○	○		○	○	○	○	○
Balance Room	○			○		○	○	○	○	○
Oil Sampler Room			○	○		○	○	○	○	○
Instrument Room	○			○		○	○	○	○	○
Medicine Room			○	○		○	○	○	○	○
Change Room	○			○		○	○	○	○	○

LAB EQUIPMENT TABLE

No.	Name	Type	Spec.	Number	No. of Standard Dwg	Remark
			LxWxH(mm)			
1	Balance Platform	TPT-C12	1200X750X780	2	88J901(-)	polished black marble mesa
2	Medicine Cabinet	YPC-E184	1800X500X1800	2	88J901(-)	
3	Medicine Cabinet	YPC-E124	1200X400X1800	4	88J901(-)	
4	Equipment Platform	SPT-C24	2400X750X760	1	88J901(-)	polished black marble mesa
5	Equipment Platform	SPT-C36	3600X750X780	2	88J901(-)	polished black marble mesa
6	Test Platform	SYT-D4215	4200X1500X1550	2	88J901(-)	
7	Washing Tank	XDP-B15	1500X750X950	2	88J901(-)	
8	Washing Tank	XDP-H15	1500X600X800	2	88J901(-)	
9	Ventilating Cabinet	TYL-B12	1200X900X2100	2	Manufacturer	See Hvac Dwg
10	Reagent Holder	SJU-D18	1800X300X750	4	88J901(-)	Wooden

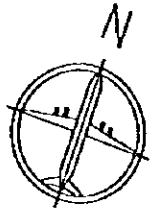


B - B SECTION

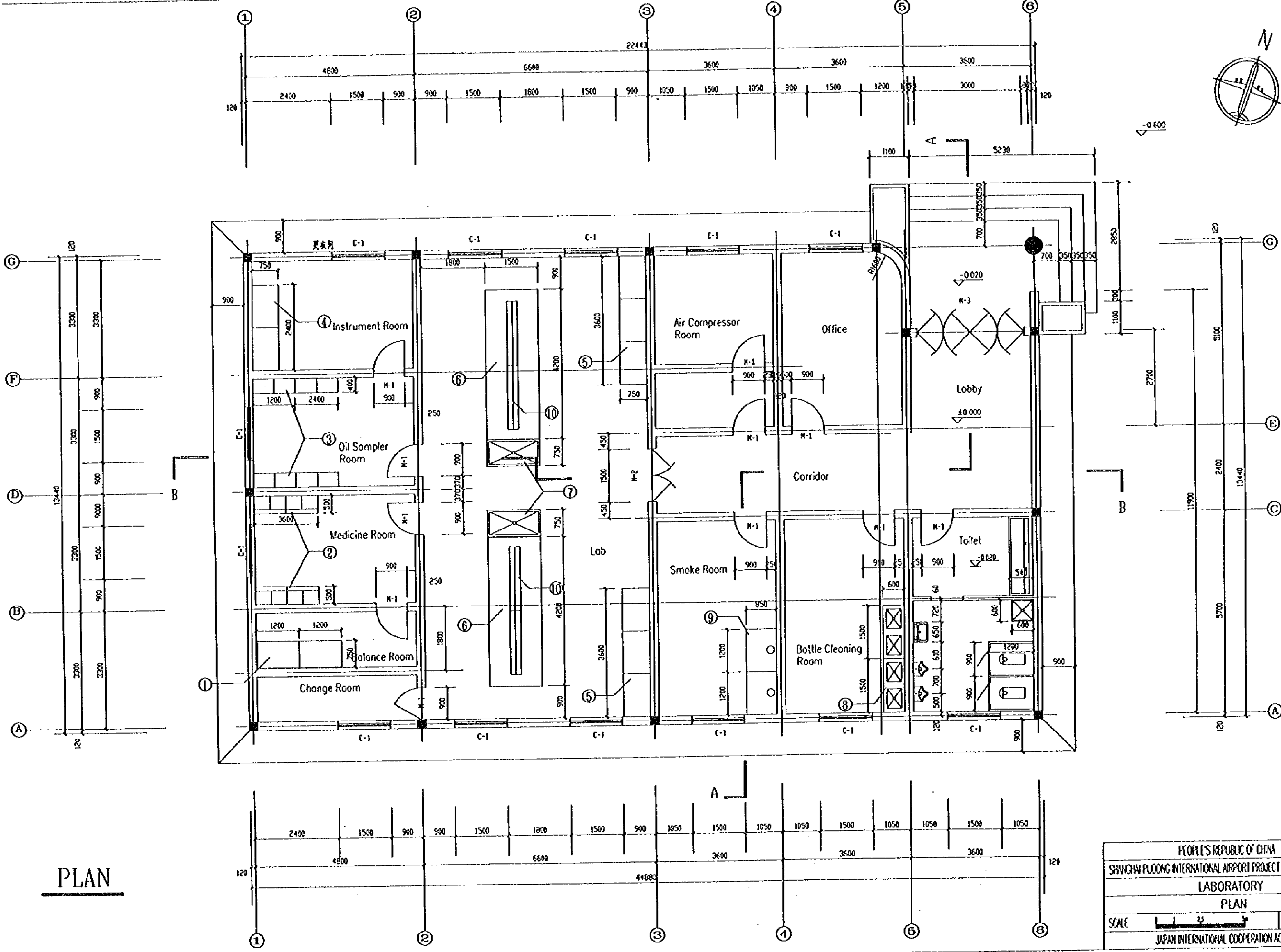


G - A ELEVATION

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
LABORATORY	
BUILDING CONSTRUCTION TABLE, LAB EQUIPMENT TABLE, B - B SECTION AND G - A ELEVATION	
SCALE 1:25	DWG-NO. (2/4)
JAPAN INTERNATIONAL COOPERATION AGENCY	

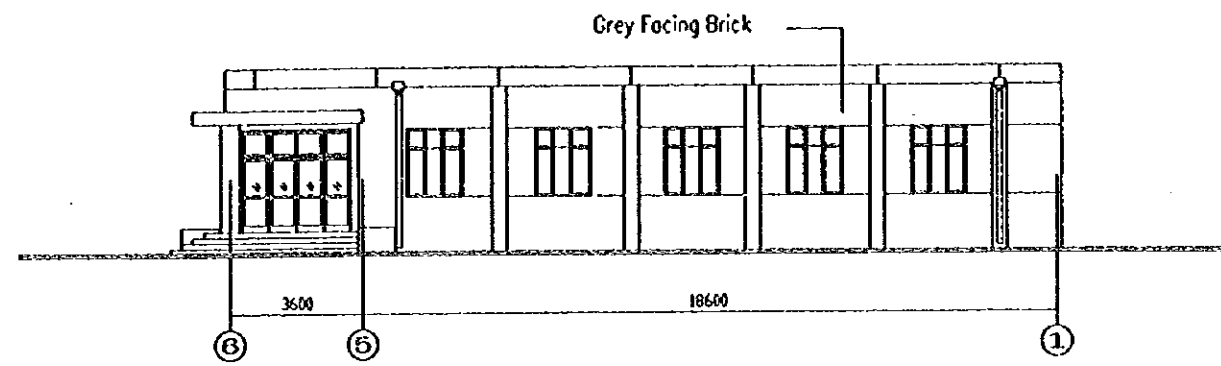


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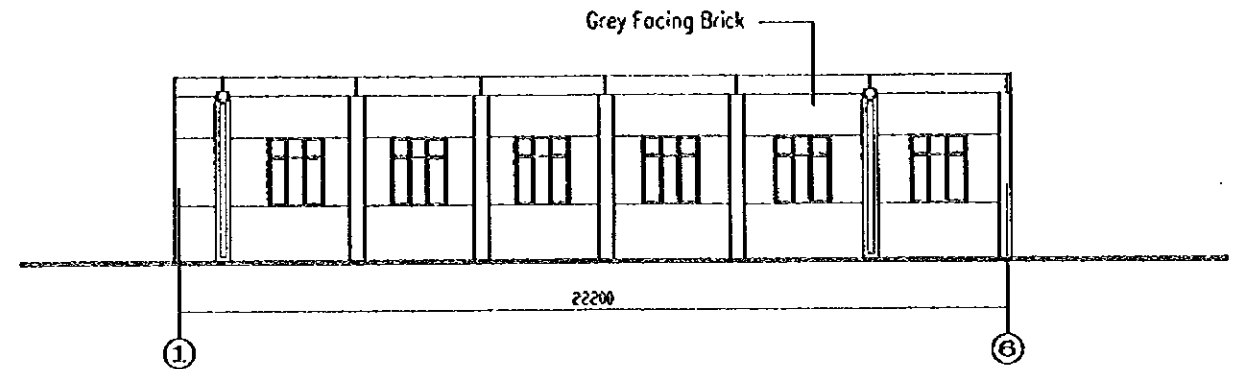


PLAN

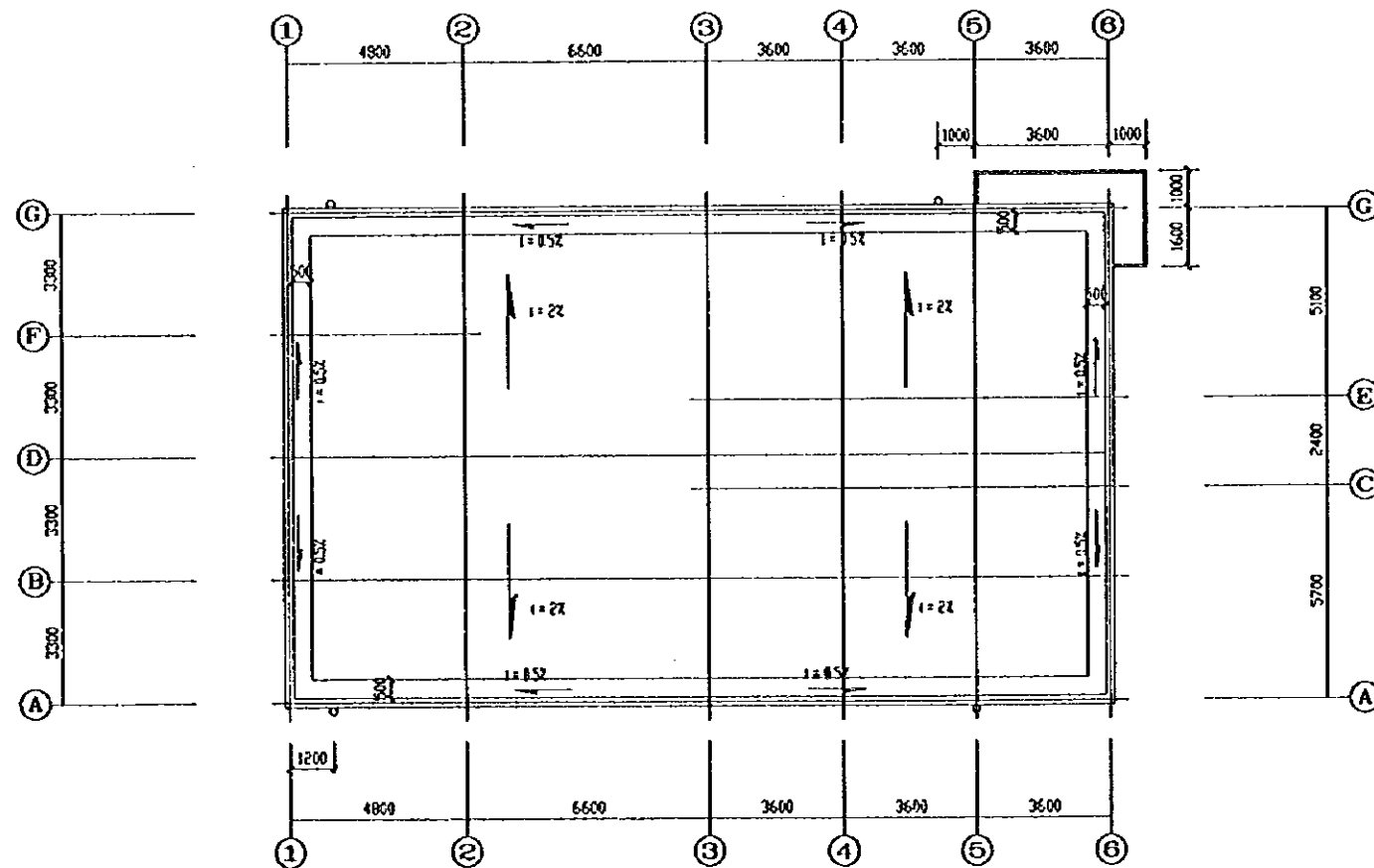
PEOPLE'S REPUBLIC OF CHINA	
SHINCHAI PUODONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
LABORATORY	
PLAN	
SCALE	DWGS-A06(3/4)
JAPAN INTERNATIONAL COOPERATION AGENCY	



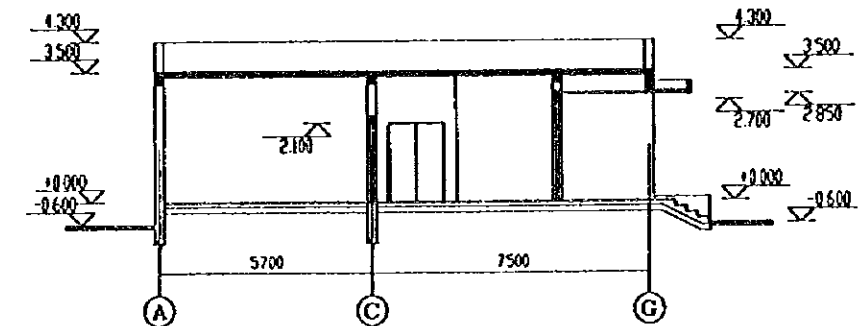
⑥ — ① ELEVATION



① — ⑥ ELEVATION

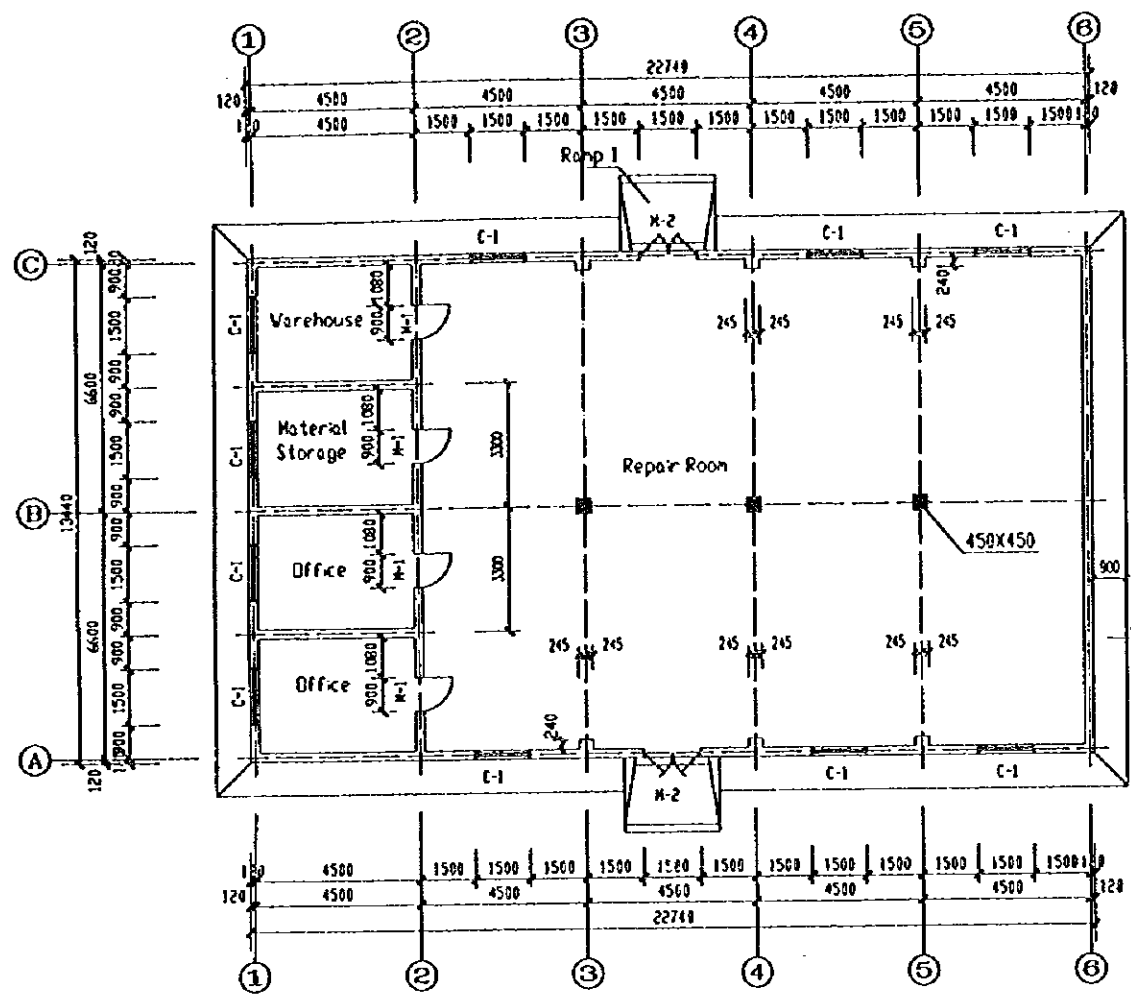


ROOF PLAN

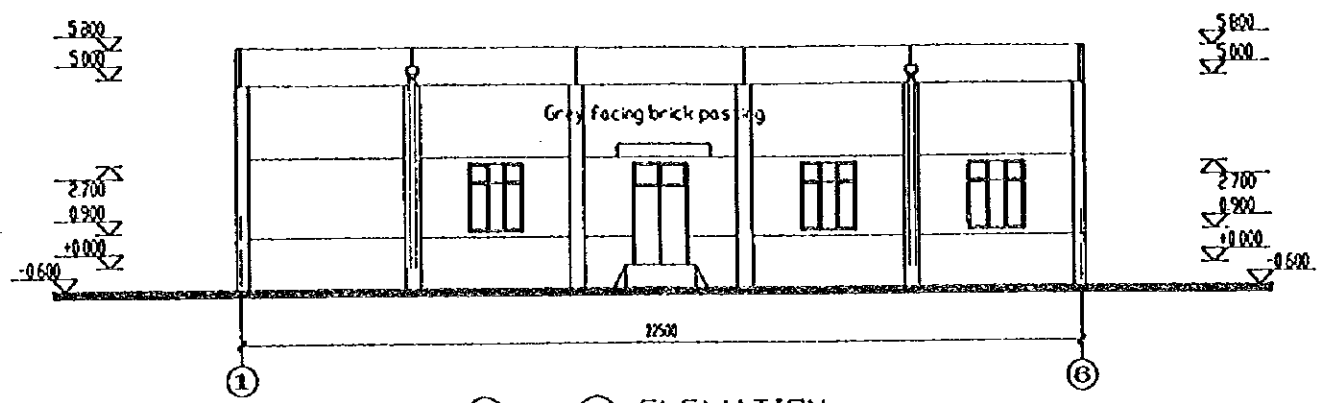


A - A SECTION

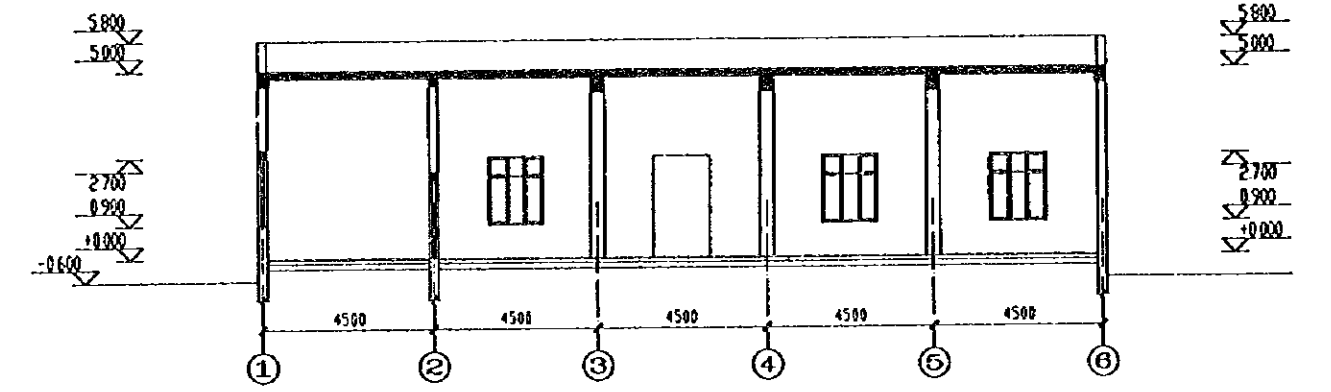
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
LABORATORY	
ROOF PLAN, 6-1 ELEVATION, 1-6 ELEVATION AND A-A SECTION	
SCALE	DWG3-A05(1/4)
JAPAN INTERNATIONAL COOPERATION AGENCY	



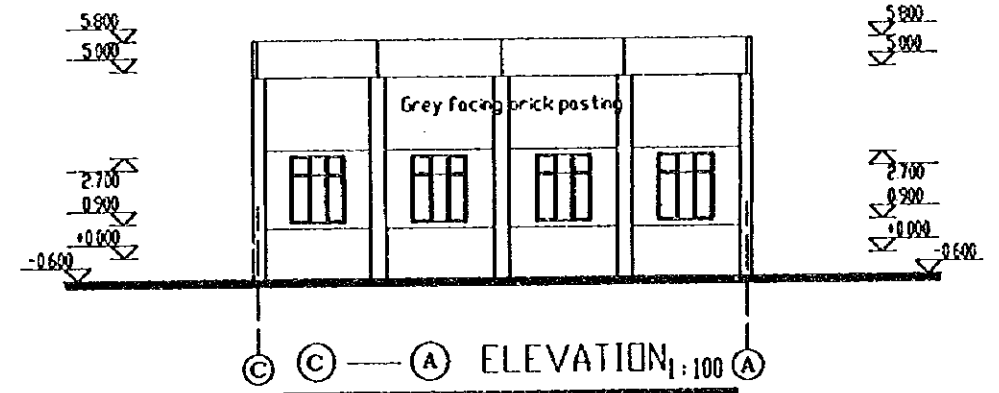
PLAN 1:100



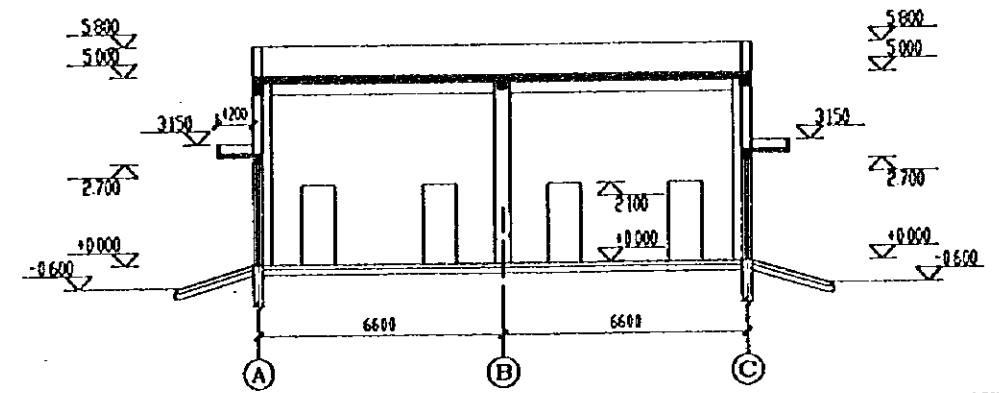
⑬ — ① ELEVATION 1:100



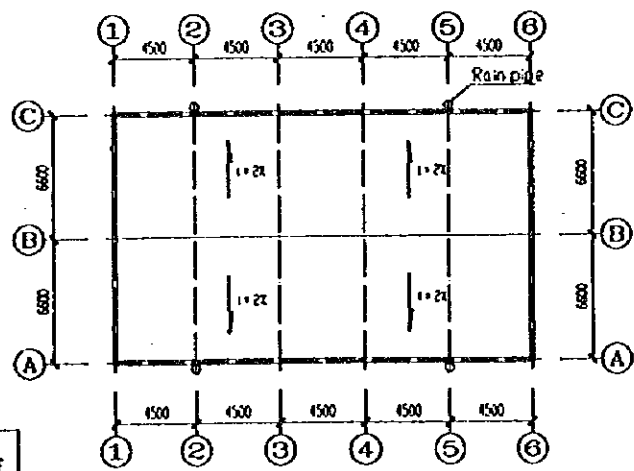
B - B SECTION 1:100



③ — ② ELEVATION 1:100



A - A SECTION 1:100



ROOF PLAN 1:200

DOOR & WINDOW TABLE

No	Series No	Opening Size (W×H)	Number	Standard Drawings	No. of Standards	Remark
1	M-1	900×2100	4	J642	M21-0921	wooden door
2	M-2	1500×2700	2	J642	M22-1527	
3	C-1	1500×1800	10	92SJ713(三)	29	aluminum alloy window

BUILDING CONSTRUCTION TABLE

Name	Floor		Interior wall		Skirt-Dado		Ceiling Roof of Room		Roof
	Topping	Construction	Topping	Construction	Topping	Construction	Topping	Construction	
Warehouse	Cement	Floor 1	Coating	Interior wall 1	Cement	Skirt 1	Coating	Ceiling 1	Roof 1
Material Storage	Cement	Floor 1	Coating	Interior wall 1	Cement	Skirt 1	Coating	Ceiling 1	Roof 1
Office	Floor brick	Floor 2	Coating	Interior wall 1	Paint	Dado 1	Coating	Ceiling 1	Roof 1
Repair Room	Cement	Floor 1	Coating	Interior wall 1	Paint	Dado 1	Coating	Ceiling 1	Roof 1

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
MAINTENANCE BUILDING	
PLAN, ROOF PLAN, ELEVATIONS AND SECTION	
SCALE	DWG3-A07(1/2)
JAPAN INTERNATIONAL COOPERATION AGENCY	

BUILDING MATERIAL CONSTRUCTION TABLE 1

No	Topping	Construction
Floor 1	Cement	1. 20 thick 125 cement mortar mopping, tamping, polishing; 2. One coat of plain wet cement binder course; 3. 70 thick C15 concrete; 4. 150 thick pebble, grouting 125 mixed mortar; 5. Soil tamping.
Floor 2	Floor brick	1. 10 thick floor brick, dry cement pointing; 2. Spread plain cement (with appropriate water); 3. 30 thick 1:1 hard cement mortar binder course; 4. One coat of plain wet cement binder course; 5. 70 thick C15 concrete; 6. 150 thick pebble, grouting 125 mixed mortar; 7. Soil tamping.
Bed 1	Paint	1. Brush lusterless paint; 2. 5 thick 125 cement mortar finish coat, tamping & polishing; 3. 13 thick 1:3 cement mortar priming, deburring or scratching.
Apron 1	Concrete	1. 50 thick C15 concrete 1:1 cement mortar, tamping & polishing; 2. 150 thick pebble, grouting 125 mixed mortar; 3. Soil tamping. pitch 4%.

BUILDING MATERIAL CONSTRUCTION TABLE 2

No	Topping	Construction
Ramp 1	Cement ramp	1. 25 thick 1:2 cement mortar mopping as sawtooth shape, width-60, depth-7; 2. One coat of plain wet cement binder course; 3. 100 thick C15 concrete; 4. 300 thick 3:7 fine sandy loam step; 5. Soil tamping.
Interior wall 1	Coating	1. Paint interior wall coating; 2. 2 thick grumet finish coat; 3. 8 thick 1:3 fine putty mortar; 4. 13 thick 1:3 fine putty mortar priming;
Interior wall 2	Facing brick	1. White cement pointing; 2. Paste 5 thick glazed brick; 3. 8 thick 1:125 cement fine putty mortar binder course; 4. 12 thick 1:3 cement mortar priming, deburring or scratching.
Skirt 1	Cement	1. 6 thick 125 cement mortar finish coat, tamping & polishing; 2. 6 thick 1:3 cement mortar priming, deburring or scratching.
Ceiling 1	Coating	1. Paint ceiling coating; 2. 2 thick grumet finish coat; 3. 6 thick 1:3 cement fine putty mortar; 4. 2 thick 1:5 cement fine putty mortar priming; 5. R.C. slab bottom to be brushed with one coat of plain wet cement using 107 glue with water 3%-5%.

BUILDING MATERIAL CONSTRUCTION TABLE 3

No	Topping	Construction
Roof 1	Small-sized stone protection layer (without person)	1. Pave one layer of bedded peastone of 3-6 m particle size; 2. Tertiary ethylene-propylene rubber rolled material water-proof layer; 3. 20 thick 125 cement mortar leveling; 4. Pave 18 cement perlite thermal insulating layer, lowest point is 30 thick pitch of 2%, vibrating & tamping, polishing (exhaust trench PVC exhaust duct to be provided with vent spacing of not more than 6 m as per Codes); 5. 20 thick 1:3 cement mortar leveling; 6. R.C. slab.
Exterior wall 1	facing brick	1. 11 cement mortar (fine sand) pointing; 2. Paste 10 thick facing brick (as pasting as brushing one coat of YJ-302 type concrete interface treatment agent to increase bonding force); 3. 12 thick 1:22 cement fine putty mortar binder course; 4. Brush one coat of plain wet cement using 107 glue with water 3%-5%; 5. 8 thick 1:3 cement mortar priming, deburring or scratching; 6. Brush one coat of YJ-302 type concrete interface treatment agent (as brushing as plastering).

Design Introduction

- The planar position and outdoor elevation of building refer to general drawings; door & outdoor height differential: 0.600m.
- Design basis: The project is designed based on preliminary design and preliminary design approving documents.
- Floor area: 22.74x13.44=305.63m².
- Wall:
 - interior & exterior thickness: 240mm, to be constructed by brick of M 7.5 and U 7.5 cement mortar.
 - All brick walls shall be provided with 20 thick 1:2 cement mortar damp-proof layer at -0.060m, mixing 3%-5% of water-proof agent.
- Dimensions and elevations in the drawing shall be calculated in mm and m respectively.
- Close coordination shall be maintained between each speciality and acceptance shall be done as per national standards.
- Corrosion-proof treatment shall be done for all built-in parts.

PEOPLE'S REPUBLIC OF CHINA		
SHANGHAI PUODING INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997	
MAINTNANCE BUILDING		
BUILDING MATERIAL CONSTRUCTION TABLE 1, 2 AND 3		
SCALE	NON SCALE	DWG3-A07(2/2)
JAPAN INTERNATIONAL COOPERATION AGENCY		

FINISH MATERIAL LIST

	NAME OF ROOM	FLOOR		INTERIOR WALL		SKIRT DADO		CEILING		REMARK
		COATING	CONS	COATING	CONS	COATING	CONS	COATING	CONS	
GROUND FLOOR	ENTRANCE PLATFORM	GRANITE	GROUND 1	TILE	EXTERIOR WALL 1			GYPSON	CEILING 2	
	LOBBY	GRANITE	GROUND 1	PAINT	INTERIOR WALL 1	PAINT	SKIRT	GYPSON	CEILING 2	
	CORRIDOR	TILE	GROUND 2	PAINT	INTERIOR WALL 1	PAINT	SKIRT	GYPSON	CEILING 2	
	OFFICE	TILE	GROUND 2	PAINT	INTERIOR WALL 1	PAINT	SKIRT	GYPSON	CEILING 2	
	RECEPTION ROOM	TILE	GROUND 2	PAINT	INTERIOR WALL 1	PAINT	DADO	GYPSON	CEILING 2	
	NO 1 STAIR CASE	TILE	GROUND 2	PAINT	INTERIOR WALL 1	PAINT	SKIRT	PAINT	CEILING 1	
	NO 2 STAIR CASE	TILE	GROUND 2	PAINT	INTERIOR WALL 1	PAINT	SKIRT	PAINT	CEILING 1	
	MAN'S ROOM	TILE	GROUND 3	TILE	INTERIOR WALL 2			GYPSON	CEILING 2	
	WOMAN'S ROOM	TILE	GROUND 3	TILE	INTERIOR WALL 2			GYPSON	CEILING 2	
	FIRST FLOOR	CORRIDOR	TILE	FLOOR 1	PAINT	INTERIOR WALL 1	TILE	SKIRT	GYPSON	CEILING 2
OFFICE		TILE	FLOOR 1	PAINT	INTERIOR WALL 1	PAINT	SKIRT	GYPSON	CEILING 2	
MAN'S ROOM		TILE	FLOOR 2	TILE	INTERIOR WALL 2			GYPSON	CEILING 2	
WOMAN'S ROOM		TILE	FLOOR 2	TILE	INTERIOR WALL 2			GYPSON	CEILING 2	
MEETING ROOM		TILE	FLOOR 1	PAINT	INTERIOR WALL 1	PAINT	DADO	GYPSON	CEILING 2	
NO 1 STAIR CASE		TILE	FLOOR 1	PAINT	INTERIOR WALL 1	PAINT	SKIRT	PAINT	CEILING 1	
NO 2 STAIR CASE		TILE	FLOOR 1	PAINT	INTERIOR WALL 1	PAINT	SKIRT	PAINT	CEILING 1	
NO 1 STAIR CASE		TILE	FLOOR 1	PAINT	INTERIOR WALL 1	PAINT	SKIRT	PAINT	CEILING 1	
NO 2 STAIR CASE		TILE	FLOOR 1	PAINT	INTERIOR WALL 1	PAINT	SKIRT	PAINT	CEILING 1	
ROOF										

DOOR AND WINDOW SCHEDULE

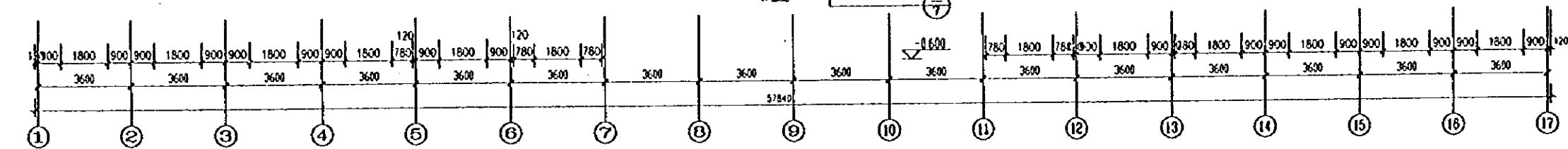
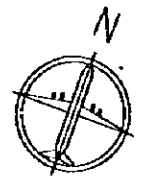
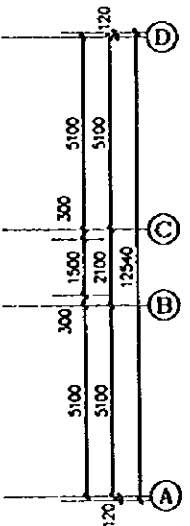
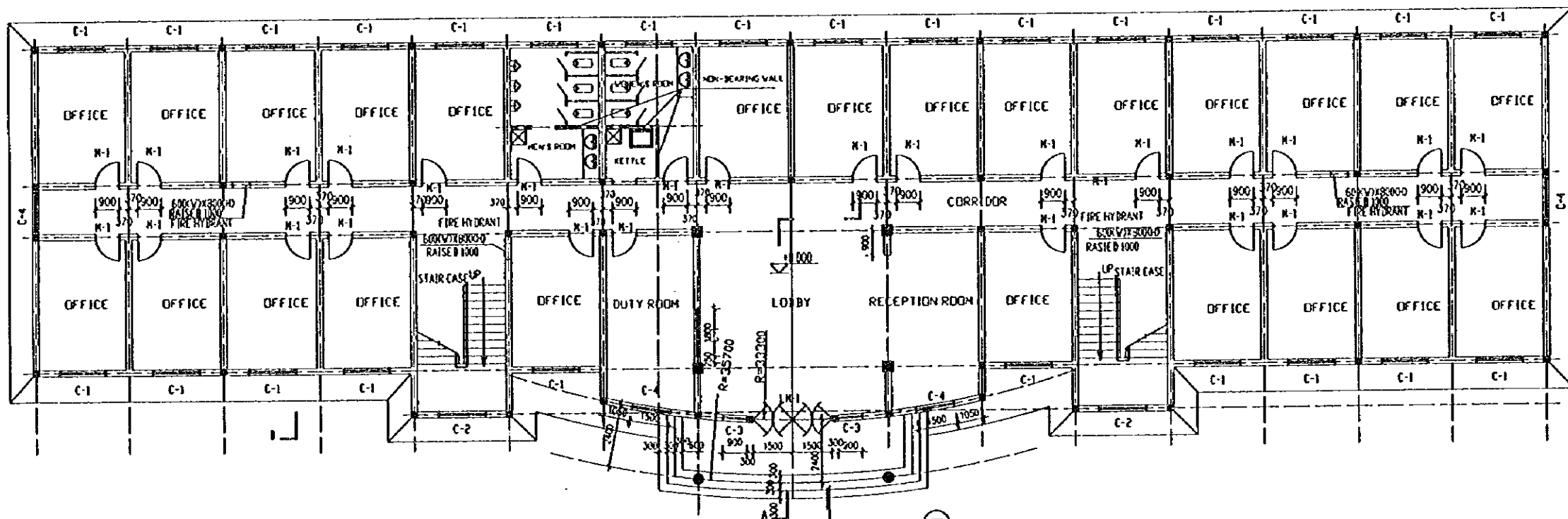
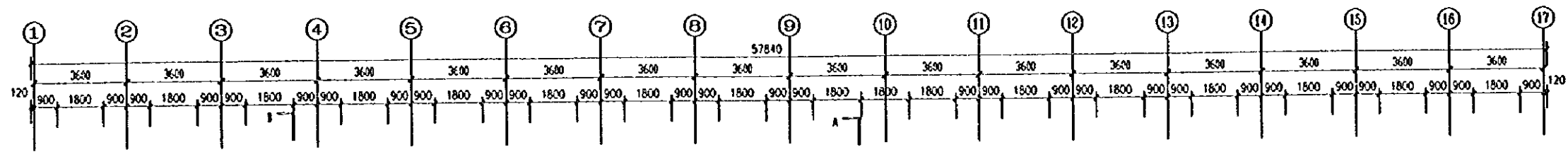
	STANDARD DRAWING NAME TYPE	NAME TYPE	OPENING SIZE	NUMBER	REMARK	
GROUND FLOOR	92SJ713(±) TLC70-47-S	C-1	1800X1500	27		
	92SJ712(-) GLC50-13	C-3	900X2100	2		
	92SJ713(±) TLC70-22-S	C-4	1500X1500	4		
	92SJ607(-) LDHM100-44	LM-1	3000X2400	1		
	J642 M43-0921	M-1	900X2100	27		
FIRST FLOOR	92SJ713(±) TLC70-47-S	C-1	1800X1500	26		
	92SJ713(±) TLC70-22-S	C-4	1500X1500	2		
	92SJ712(±) TLC70-12	C-5	600X1800	8		
		J642 M43-0921	M-1	900X2100	2	
		92SJ607(-) LDHM100-21	M-2	1500X2100	2	
STAIR CASE	92SJ712(-) pLC50-83	C-2	1800X600	8		
	92SJ712(-) pLC50-1	C-6	600X600	8		
	92SJ605(±) PLM70-100	M-3	1200X2100	2		

Design Introduction

- This project is FUEL SUPPLY Depot -- Complex Office Building of Shanghai Pudong International Airport, its general planar positions and +0.000 as absolute elevation refer to General Drawing.
- Design Basis: This project is designed based on preliminary design and preliminary design approving document.
- Floor area: Complex Office Building m².
- Wall: 1) M7.5 brick and U7.5 mortar shall be used for all walls below +_0.000, 240 thick light aggregate concrete porous block brick wall for exterior wall above +_0.000, 200 thick light aggregate concrete porous block brick wall for interior wall
2) All brick walls shall be provided with 20 thick cement mortar damp-proof layer at -0.060, mixing water-proof agent 3% 5%;
3) 1:2 cement mortar angle bead shall be done for indoor wall convex corner with height of 1200 as opening, 150 wide as two sides.
- Door & Window:
 - Except for positions especially noted, all doors and windows shall be installed in walls. Aluminum alloy framed yarn mesh shall be provided for the opening leaf of external window;
 - Medium-class construction of finish coat with natural wood color varnish is used for wooden door painting;
- Corrosion-proof treatment shall be done for all built-in parts, indoor iron parts shall be painted with two coats of red lead, then mixed paint, medium-class construction, the color is dark-green.

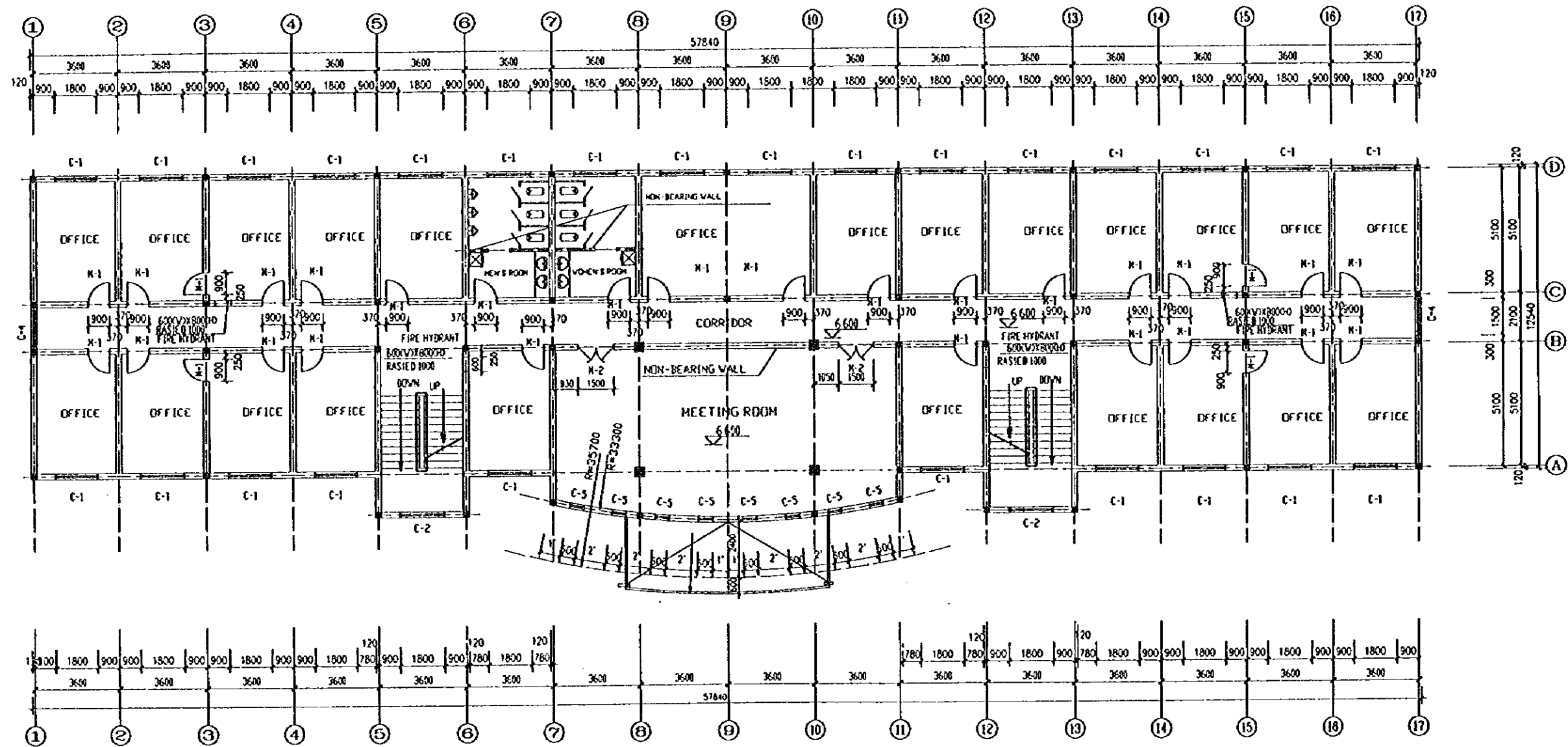
	AREA
1ST FLOOR	57.84X12.54+2X3.84X1.8+24.41=763.55 M ²
2ND FLOOR	57.84X12.54+2X3.84X1.8+24.41=763.55 M ²
TOTAL	763.55+763.55=1527.1 M ²

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
OFFICE BUILDING (FUEL SUPPLY DEPOT)	
BUILDING CONSTRUCTION TABLE AND DOOR & WINDOW TABLE	
SCALE NON SCALE	DWG3-A08A(1/6)
JAPAN INTERNATIONAL COOPERATION AGENCY	



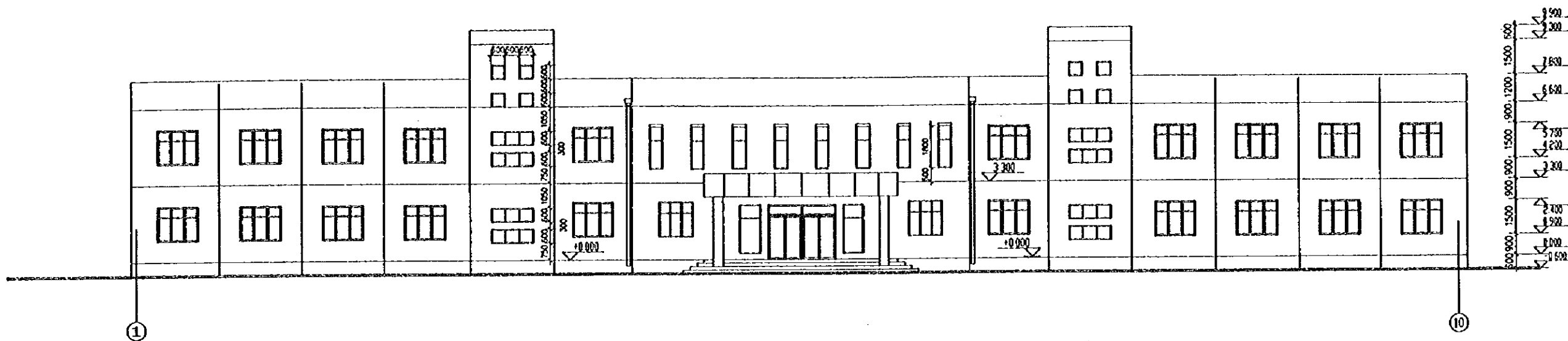
1st FLOOR PLAN 1:100

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
OFFICE BUILDING (FUEL SUPPLY DEPOT)	
1st FLOOR PLAN	
SCALE	DWG-A08A(2/6)
JAPAN INTERNATIONAL COOPERATION AGENCY	

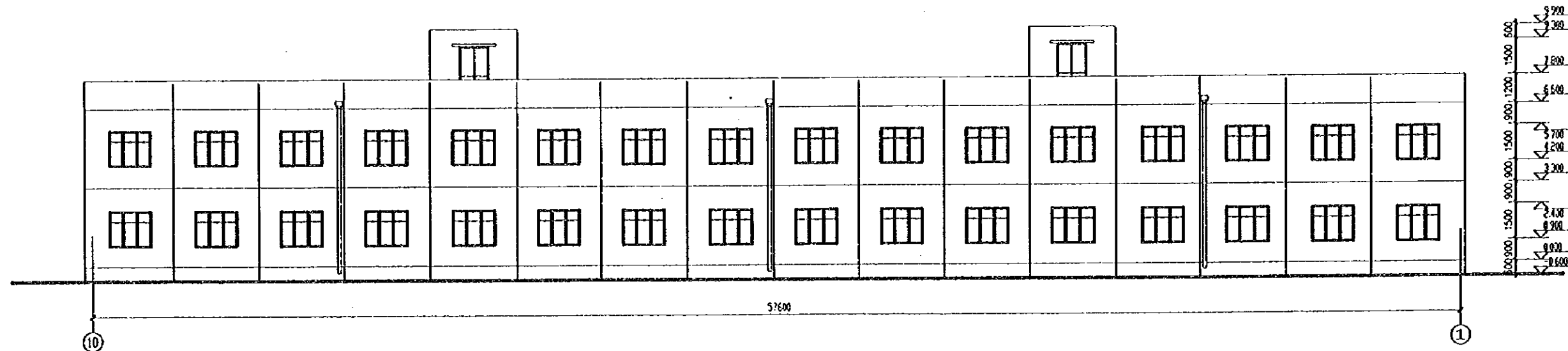


2nd FLOOR PLAN 1:100

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
OFFICE BUILDING (FUEL SUPPLY DEPOT)	
2nd FLOOR PLAN	
SCALE	DWG3-A08A(3/6)
JAPAN INTERNATIONAL COOPERATION AGENCY	



① — ⑩ ELEVATION 1:100



⑩ — ① ELEVATION 1:100

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
OFFICE BUILDING (FUEL SUPPLY DEPOT)	
ELEVATIONS	
SCALE	DWG3-A03A(4/6)
JAPAN INTERNATIONAL COOPERATION AGENCY	