

社会開発調査部報告書

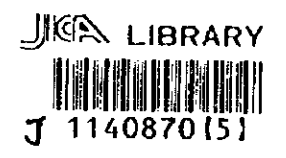
JAPAN INTERNATIONAL COOPERATION AGENCY  
SCIENCE AND TECHNOLOGY COMMISSION OF  
SHANGHAI MUNICIPAL PEOPLE'S GOVERNMENT  
PEOPLE'S REPUBLIC OF CHINA

# DETAILED DESIGN OF SHANGHAI PUDONG INTERNATIONAL AIRPORT FINAL REPORT

## VOLUME II DESIGN DRAWING

PART I Master Planning  
PART II Basic Design

SEPTEMBER 1997



NIPPON KOEI CO., LTD  
NIKKEN SEKKEI LTD.

SSF
OR(3)
97-108

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

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1140870 [5]

JAPAN INTERNATIONAL COOPERATION AGENCY  
SCIENCE AND TECHNOLOGY COMMISSION OF  
SHANGHAI MUNICIPAL PEOPLE'S GOVERNMENT,  
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DETAILED DESIGN OF SHANGHAI PUDONG INTERNATIONAL AIRPORT  
FINAL REPORT

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PART I Master Planning

AUGUST 1996

NIPPON KOEI CO., LTD  
NIKKEN SEKKEI LTD.

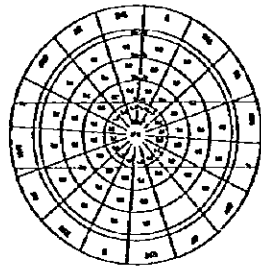
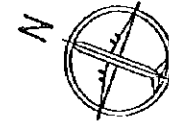
# DETAILED DESIGN OF SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT

NIPPON KOEI CO., LTD.  
NIKKEN SEKKEI LTD.

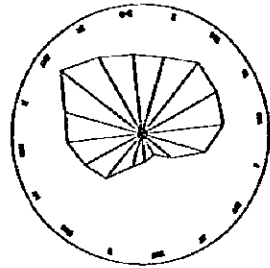
## Master Planning

DWG No.	TITLE	題 目
1	GENERAL SITE PLAN (Master Plan)	全体平面図 (将来計画)
2	GENERAL LAYOUT PLAN (Master Plan)	施設配置平面図 (将来計画)
3	STORM DRAINAGE PLAN (Master Plan)	雨水排水計画平面図 (将来計画)
4	ELECTRIC POWER SUPPLY PLAN (Master Plan)	電力供給施設計画平面図 (将来計画)
5	WATER SUPPLY PLAN (Master Plan)	用水供給施設計画平面図 (将来計画)
6	SEWAGE PLAN (Master Plan)	汚水処理施設計画平面図 (将来計画)
7	HOT WATER & COLD WATER SUPPLY PLAN (Master Plan)	熱供給施設計画平面図 (将来計画)
8	FUEL SUPPLY SYSTEM PLAN (Master Plan)	給油施設計画平面図 (将来計画)
9	GENERAL SITE PLAN (1st Phase Plan)	全体平面図 (第一期計画)
10	GENERAL LAYOUT PLAN (1st Phase Plan)	施設配置平面図 (第一期計画)
11	PLANNING HEIGHTS (1st Phase Plan)	計画高平面図 (第一期計画)
12	RUNWAY PROFILE (1st Phase Plan)	滑走路縦断面図 (第一期計画)
13	TYPICAL CROSS SECTION OF RUNWAY STRIP (1st Phase Plan)	着陸帯標準断面図 (第一期計画)
14	EARTHWORK FORMATION PLAN (1st Phase Plan)	切盛平面図 (第一期計画)
15	PAVEMENT PLAN (1st Phase Plan)	舗装計画平面図 (第一期計画)
16	STORM DRAINAGE PLAN (1st Phase Plan)	雨水排水計画平面図 (第一期計画)
17	RELATED FACILITIES PLAN (1st Phase Plan)	付帯施設計画平面図 (第一期計画)
18	TYPICAL ROAD CROSS SECTION (1st Phase Plan)	構内道路標準断面図 (第一期計画)
19	AIRFIELD LIGHTING LAYOUT PLAN (1st Phase Plan)	航空灯火施設計画平面図 (第一期計画)
20	AIRFIELD LIGHTING CABLE ROUTE PLAN (1st Phase Plan)	航空灯火ケーブルルート計画平面図 (第一期計画)
21	ELECTRIC POWER SUPPLY PLAN (1st Phase Plan)	電力供給施設計画平面図 (第一期計画)
22	WATER SUPPLY PLAN (1st Phase Plan)	用水供給施設計画平面図 (第一期計画)
23	SEWAGE PLAN (1st Phase Plan)	汚水処理施設計画平面図 (第一期計画)
24	HOT WATER & COLD WATER SUPPLY PLAN (1st Phase Plan)	熱供給施設計画平面図 (第一期計画)
25	FUEL SUPPLY SYSTEM PLAN (1st Phase Plan)	給油施設計画平面図 (第一期計画)

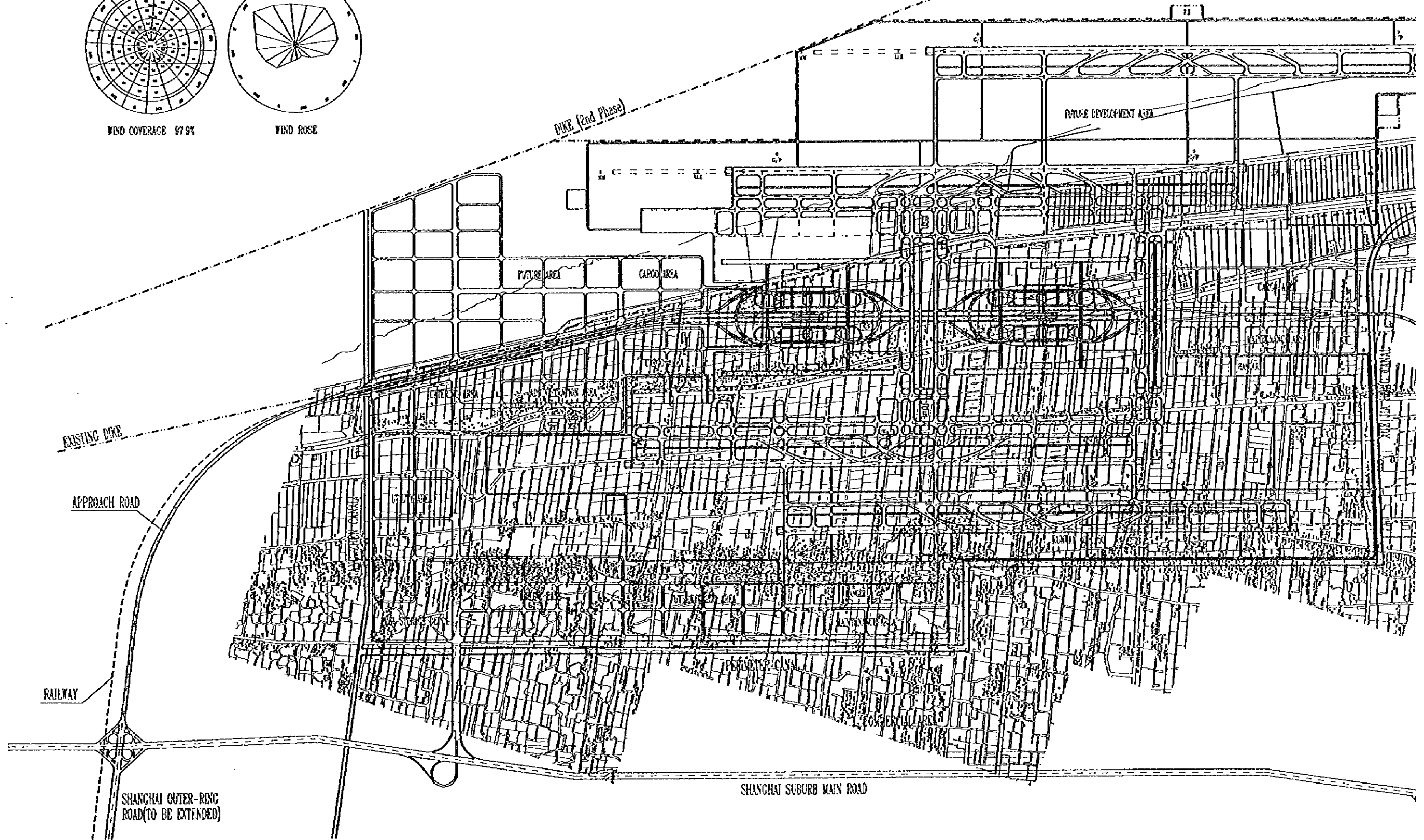
# SHANGHAI PUDONG INTERNATIONAL AIRPORT GENERAL SITE PLAN (Master Plan)



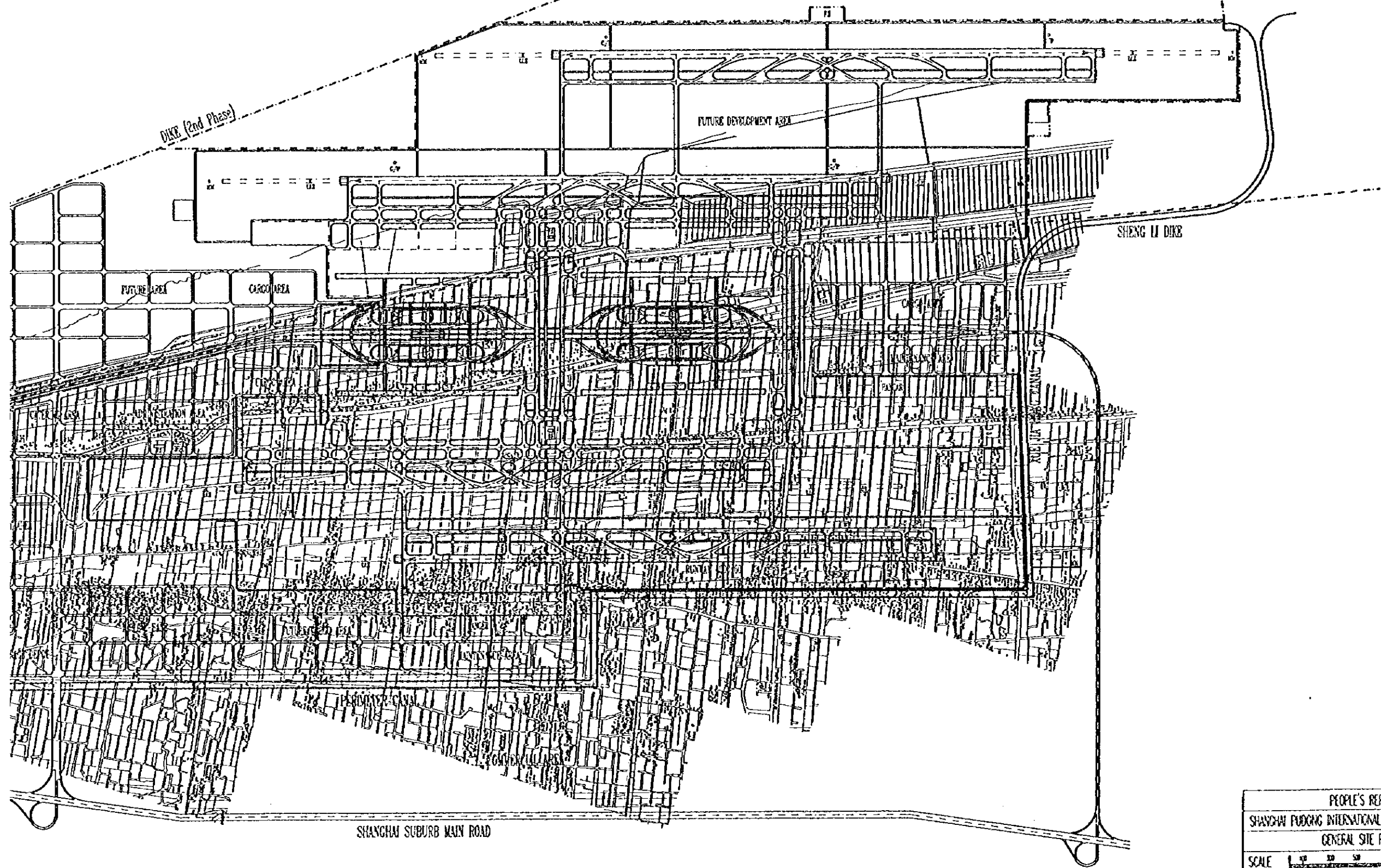
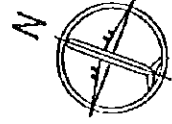
WIND COVERAGE 97.9%



WIND ROSE

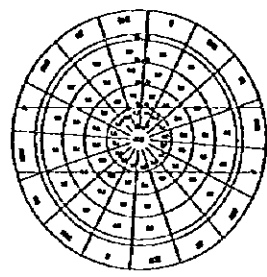
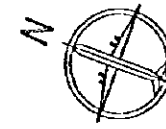


# ATIONAL AIRPORT PLAN (Master Plan)

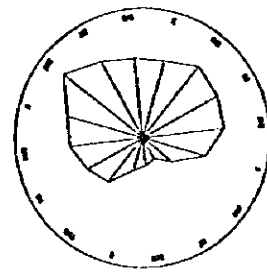


PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	AUGUST 1996
GENERAL SITE PLAN (Master Plan)	
SCALE	1:5000
JAPAN INTERNATIONAL COOPERATION AGENCY	

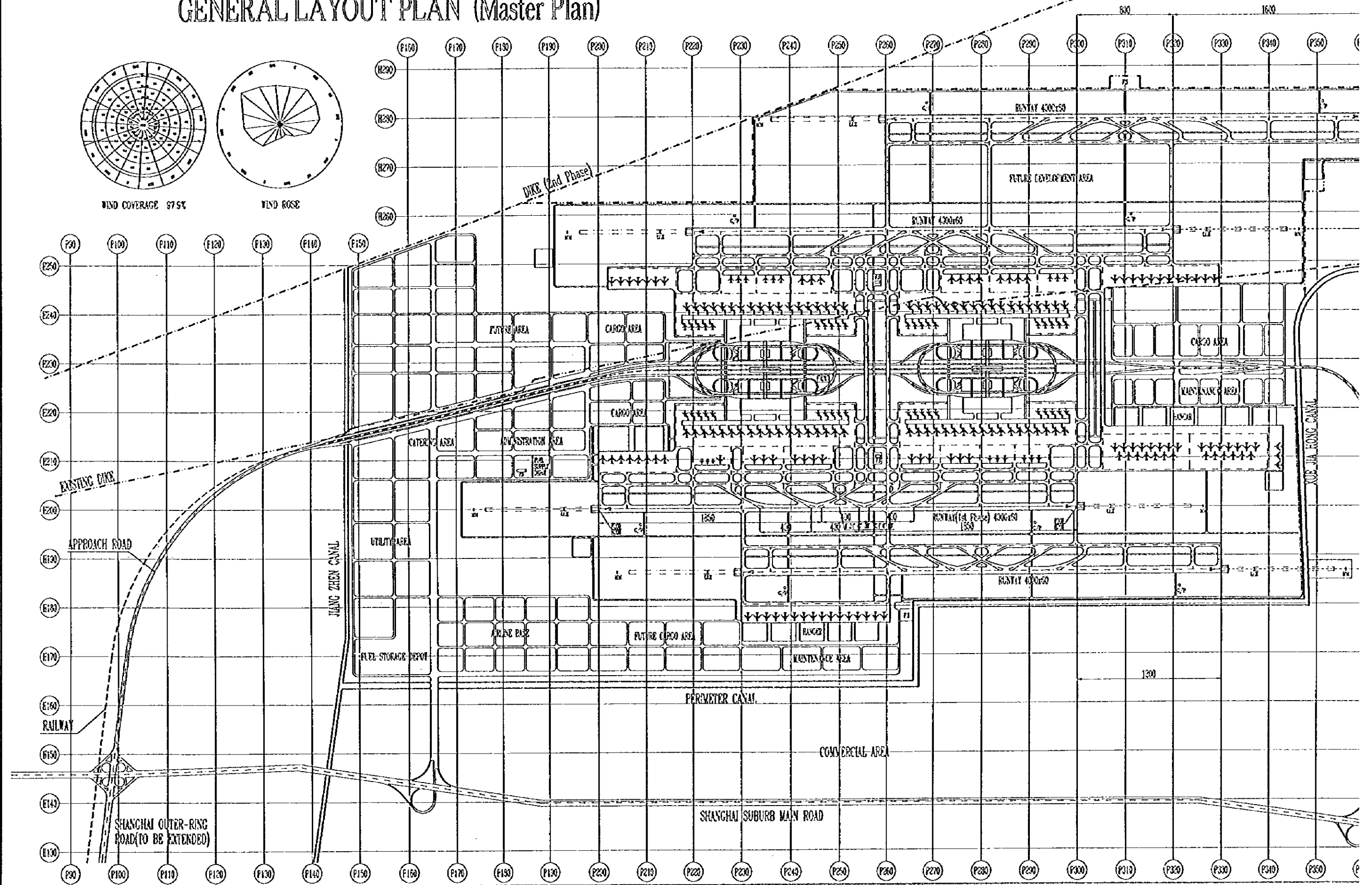
# SHANGHAI PUDONG INTERNATIONAL AIRPORT GENERAL LAYOUT PLAN (Master Plan)



WIND COVERAGE 97.5%

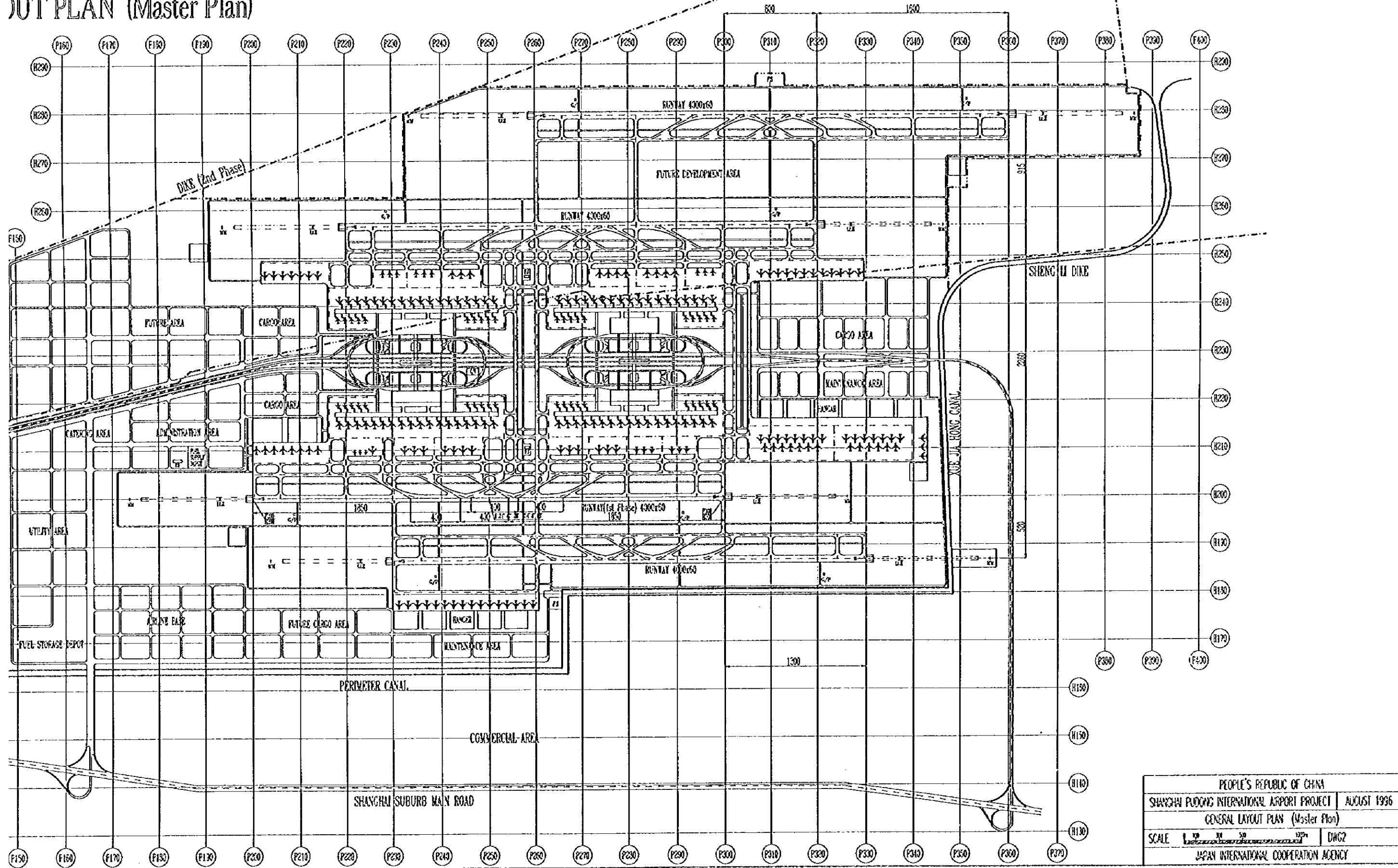
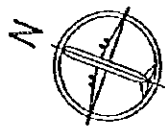


WIND ROSE

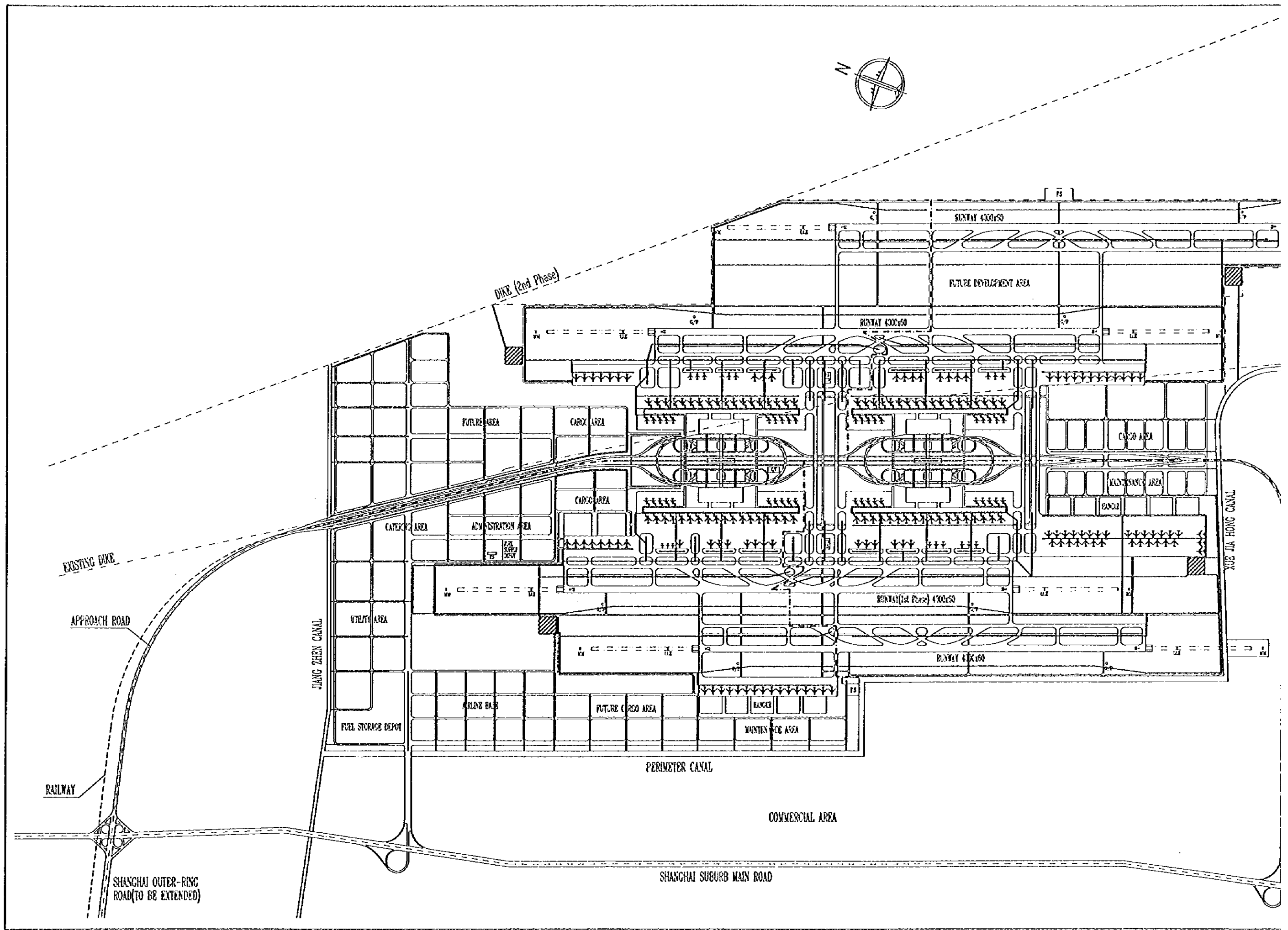
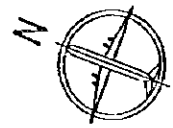




# INTERNATIONAL AIRPORT GENERAL LAYOUT PLAN (Master Plan)



PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	AUGUST 1996
GENERAL LAYOUT PLAN (Master Plan)	
SCALE 1:5000	DWG2
JAPAN INTERNATIONAL COOPERATION AGENCY	



EXISTING DIKE

APPROACH ROAD

RAILWAY

SHANGHAI OUTER-RING ROAD (TO BE EXTENDED)

DIKE (2nd Phase)

JANG ZHEN CANAL

XUE JIA HONG CANAL

FUTURE AREA

CARPORT AREA

CARGO AREA

CARPORT AREA

ADMINISTRATION AREA

UTILITY AREA

FUEL STORAGE DEPOT

RELAX BAR

FUTURE CARGO AREA

RANGERS

MAINTENANCE AREA

FUTURE DEVELOPMENT AREA

CARGO AREA

CARGO AREA

MAINTENANCE AREA

RANGERS

RUNWAY (1st Phase) 4000x60

RUNWAY 4000x60

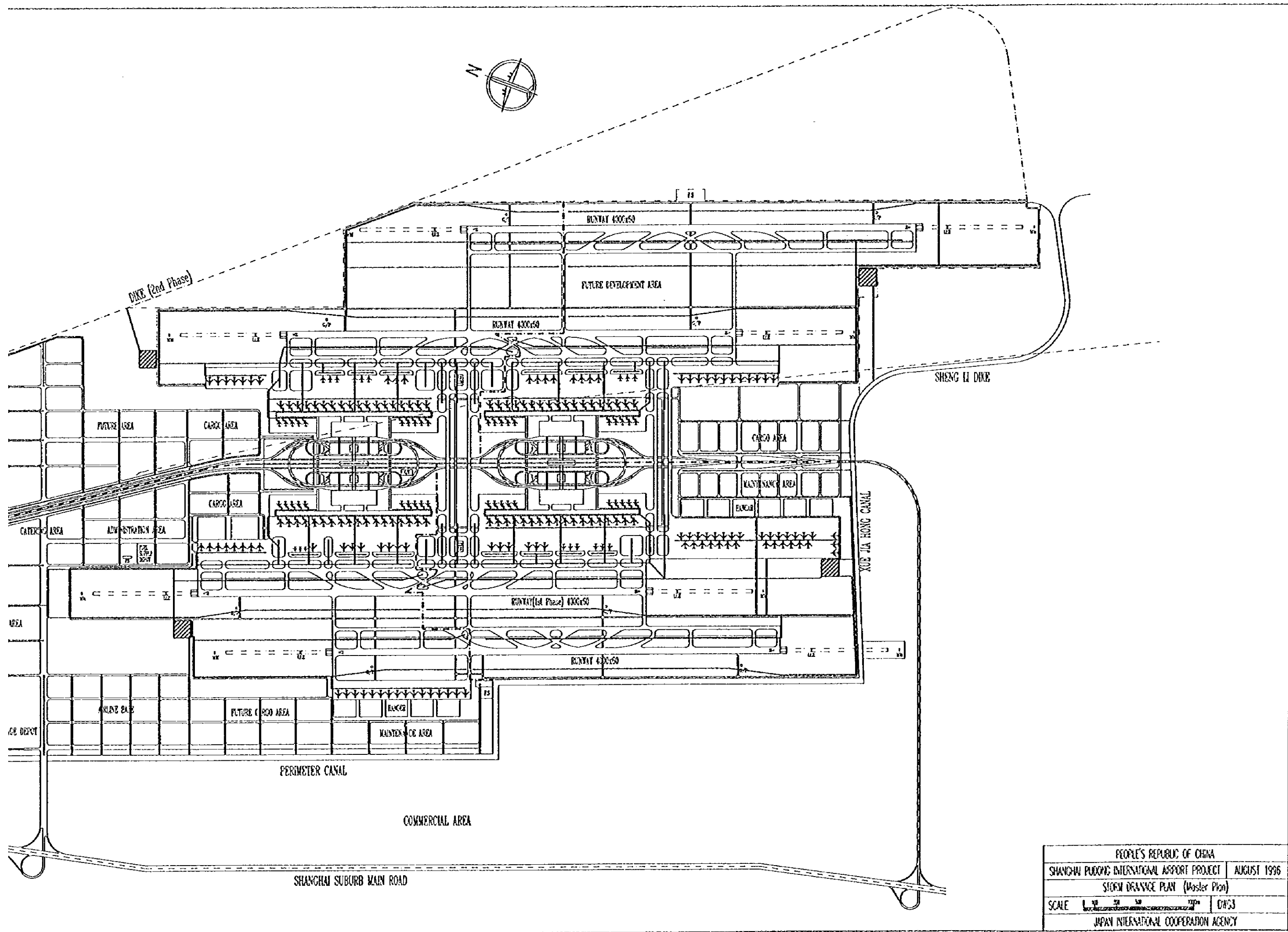
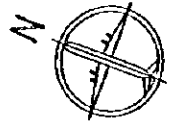
RUNWAY 4000x60

RUNWAY 4000x60

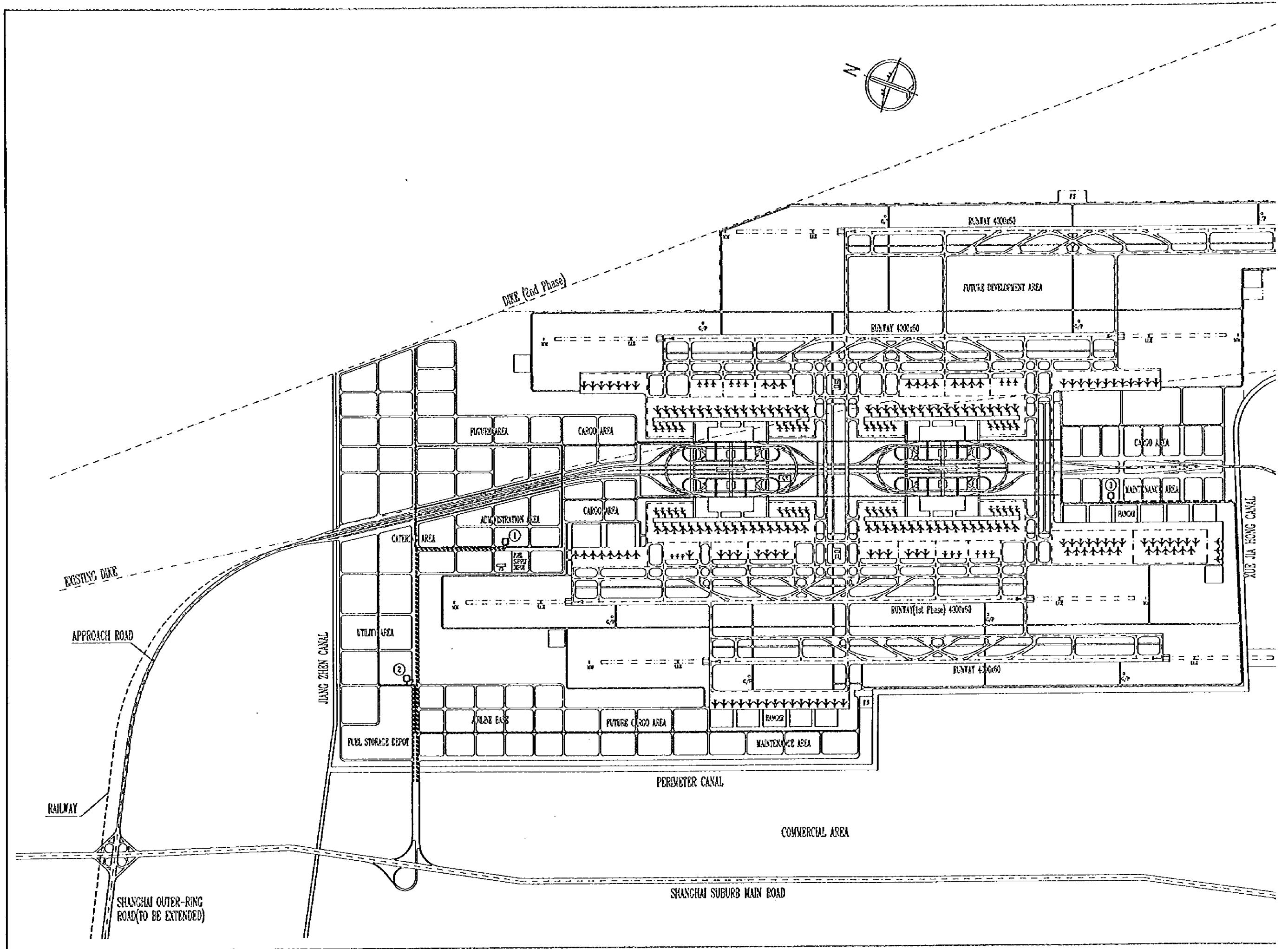
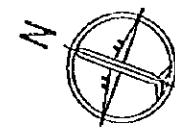
PERIMETER CANAL

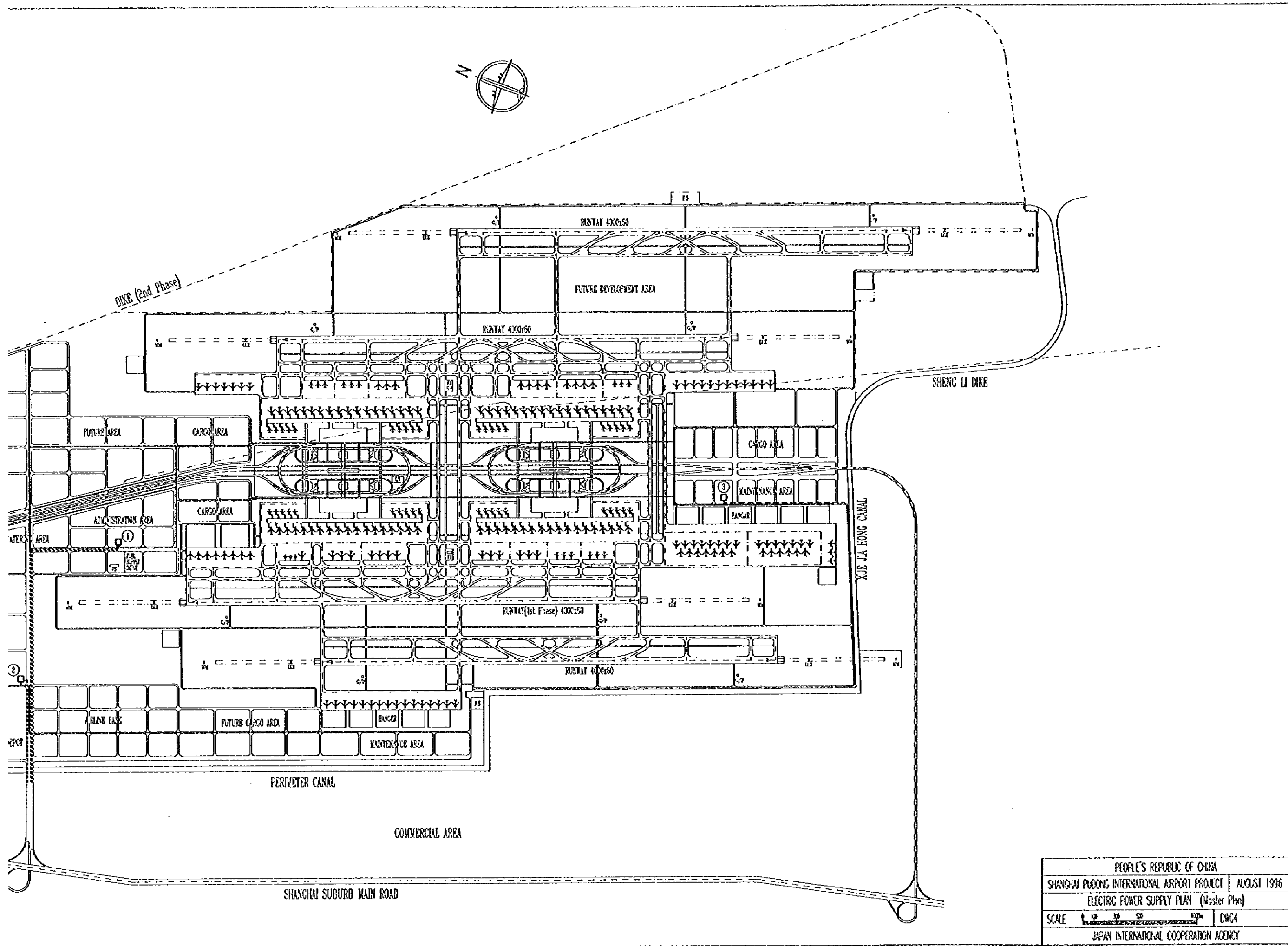
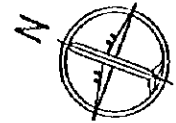
COMMERCIAL AREA

SHANGHAI SUBURB MAIN ROAD

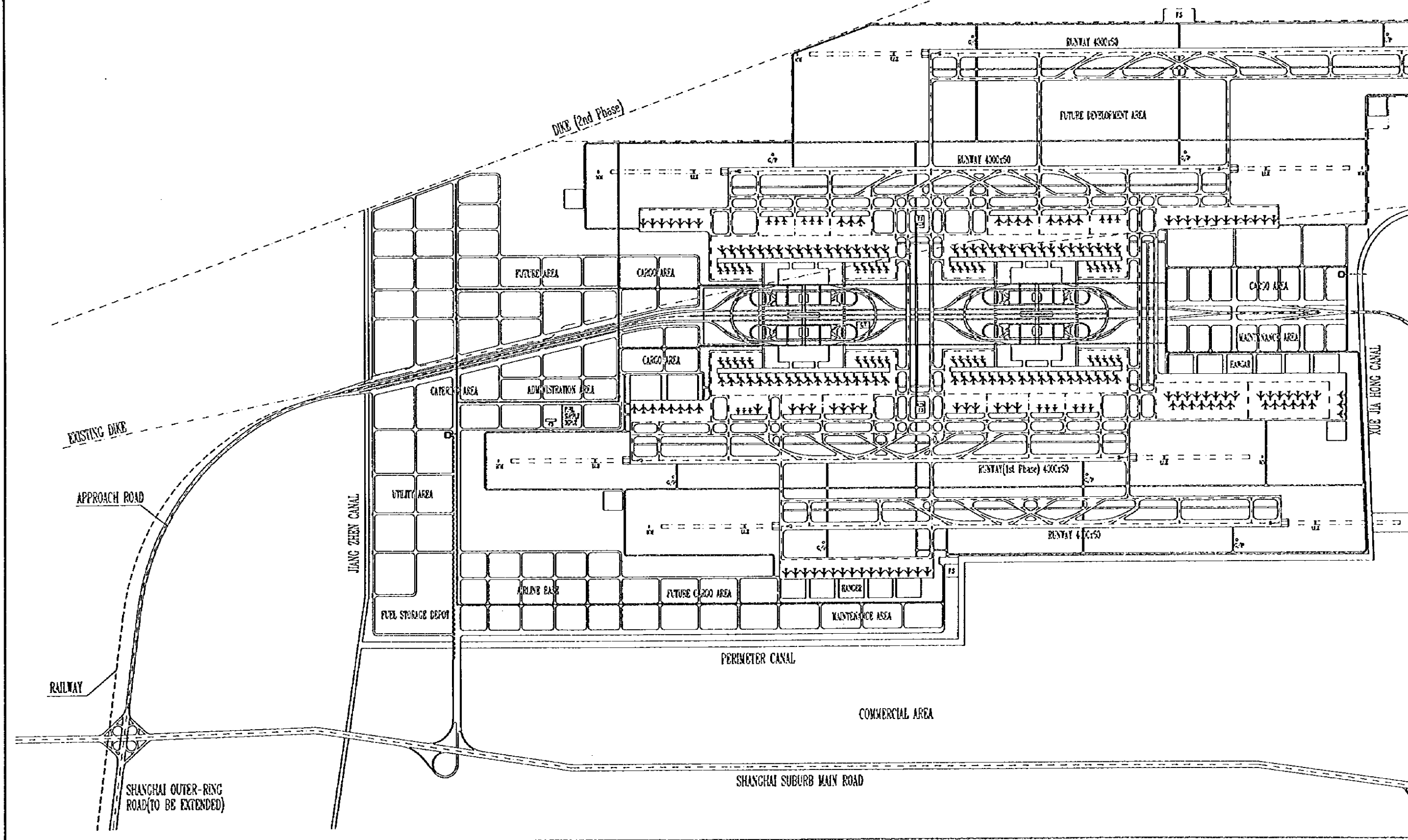
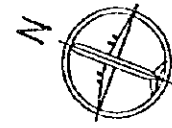


PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	AUGUST 1996
STORM DRAINAGE PLAN (Master Plan)	
SCALE	1:500
JAPAN INTERNATIONAL COOPERATION AGENCY	





PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	AUGUST 1996
ELECTRIC POWER SUPPLY PLAN (Master Plan)	
SCALE	1:5000
DWCA	
JAPAN INTERNATIONAL COOPERATION AGENCY	



DIKE (2nd Phase)

RUNWAY 400x50

RUNWAY 400x50

RUNWAY (1st Phase) 400x50

RUNWAY 400x50

JIANG ZHEN CANAL

XUE JIA HONG CANAL

PERIMETER CANAL

COMMERCIAL AREA

SHANGHAI SUBURB MAIN ROAD

EXISTING DIKE

APPROACH ROAD

RAILWAY

SHANGHAI OUTER-RING ROAD (TO BE EXTENDED)

FUTURE AREA

CARGO AREA

FUTURE DEVELOPMENT AREA

CATERING AREA

ADMINISTRATION AREA

CARGO AREA

CARGO AREA

MAINTENANCE AREA

PARADE

UTILITY AREA

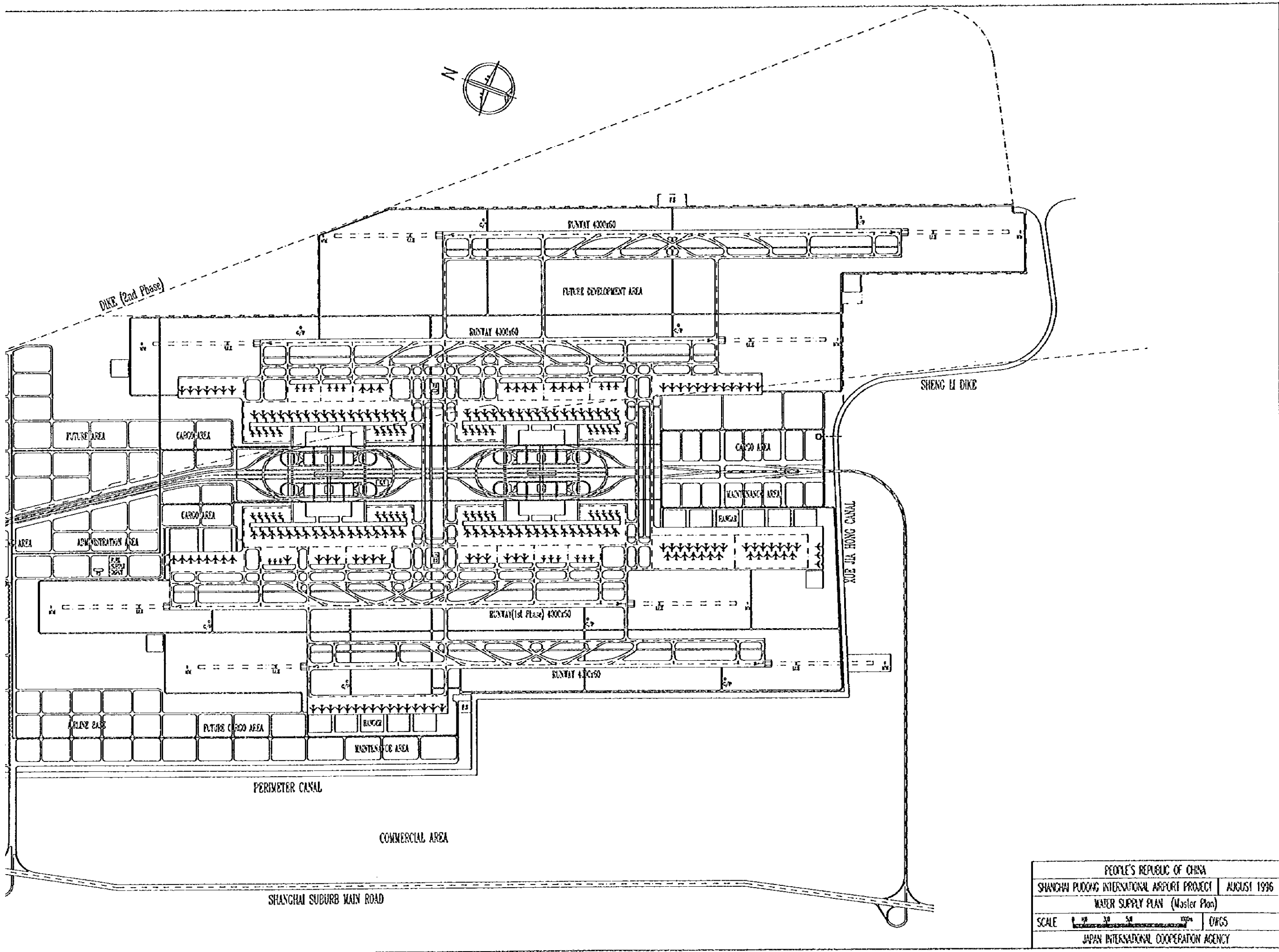
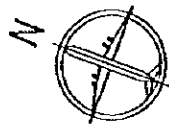
FUEL STORAGE DEPOT

AIRLINE BASE

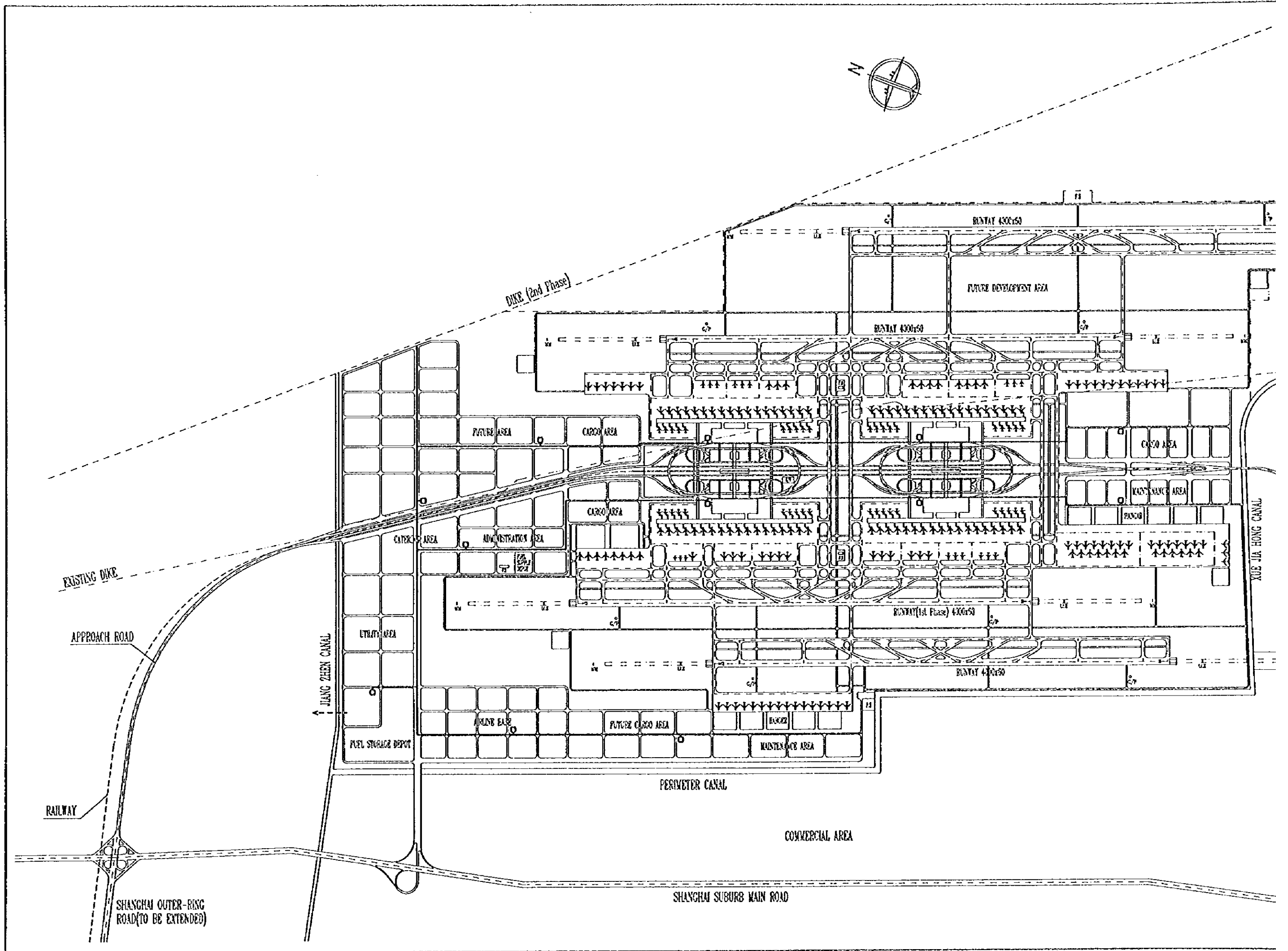
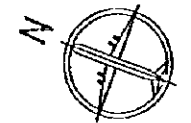
FUTURE CARGO AREA

RANGER

MAINTENANCE AREA



PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	AUGUST 1996
WATER SUPPLY PLAN (Master Plan)	
SCALE	0 10 20 30 40 50 60 70 80 90 100
JAPAN INTERNATIONAL COOPERATION AGENCY	



DIKE (2nd Phase)

EXISTING DIKE

APPROACH ROAD

RAILWAY

SHANGHAI OUTER-RING ROAD (TO BE EXTENDED)

↑ JIANG ZHEN CANAL

FUEL STORAGE DEPOT

AIRLINE BASE

FUTURE CARGO AREA

MAINTENANCE AREA

PERIMETER CANAL

COMMERCIAL AREA

SHANGHAI SUBURB MAIN ROAD

XUE JIA HONG CANAL

RUNWAY 4000x60

RUNWAY 4000x60

RUNWAY (1st Phase) 4000x60

RUNWAY 4000x60

FUTURE DEVELOPMENT AREA

FUTURE AREA

CARGO AREA

CARGO AREA

CATERING AREA

ADMINISTRATION AREA

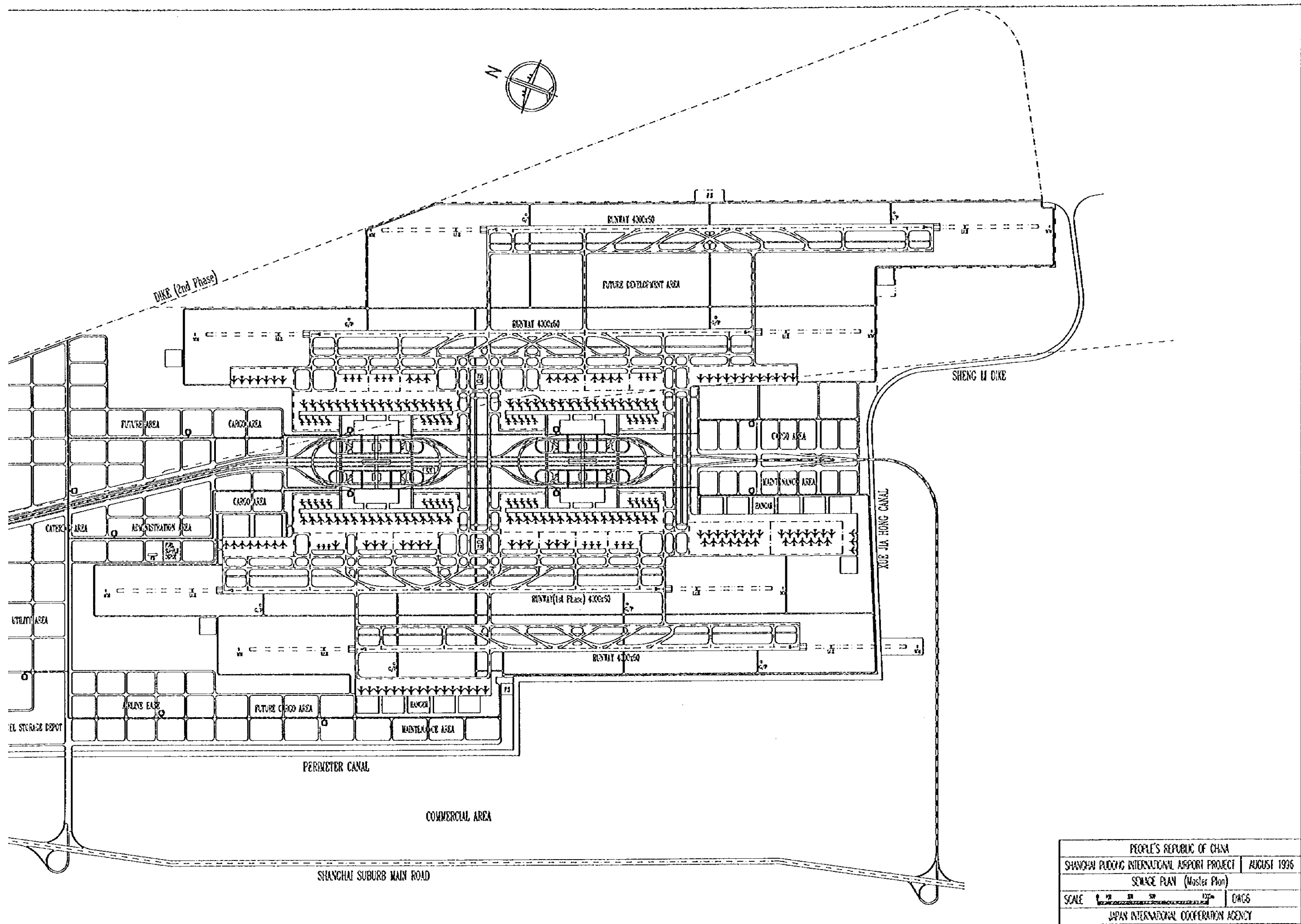
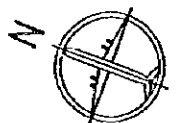
UTILITY AREA

CARGO AREA

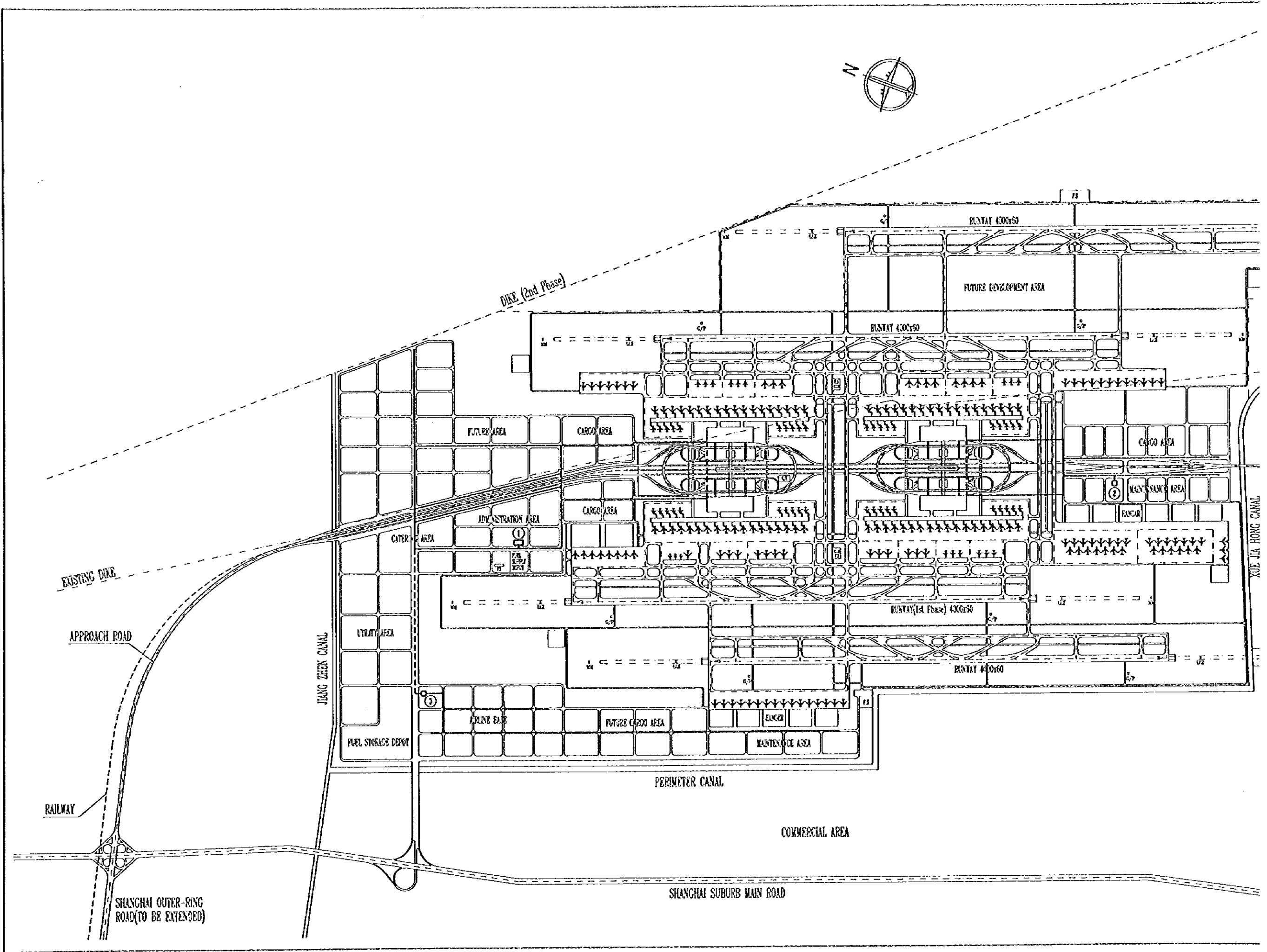
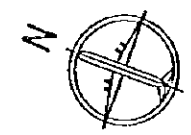
MAINTENANCE AREA

HANGAR





PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	AUGUST 1996
SEWAGE PLAN (Master Plan)	
SCALE	1:5000
JAPAN INTERNATIONAL COOPERATION AGENCY	



EXISTING DIKE

APPROACH ROAD

RAILWAY

SHANGHAI OUTER-RING ROAD (TO BE EXTENDED)

DIKE (2nd Phase)

JIANG ZHEN CANAL

PERIMETER CANAL

COMMERCIAL AREA

SHANGHAI SUBURB MAIN ROAD

RUNWAY 4000x60

FUTURE DEVELOPMENT AREA

RUNWAY 4000x60

FUTURE AREA

CARGO AREA

CARGO AREA

ADMINISTRATION AREA

CARGO AREA

MANAGEMENT AREA

CATERING AREA

UTILITY AREA

RUNWAY (1st Phase) 4300x60

RUNWAY 4000x60

AIRLINE BASE

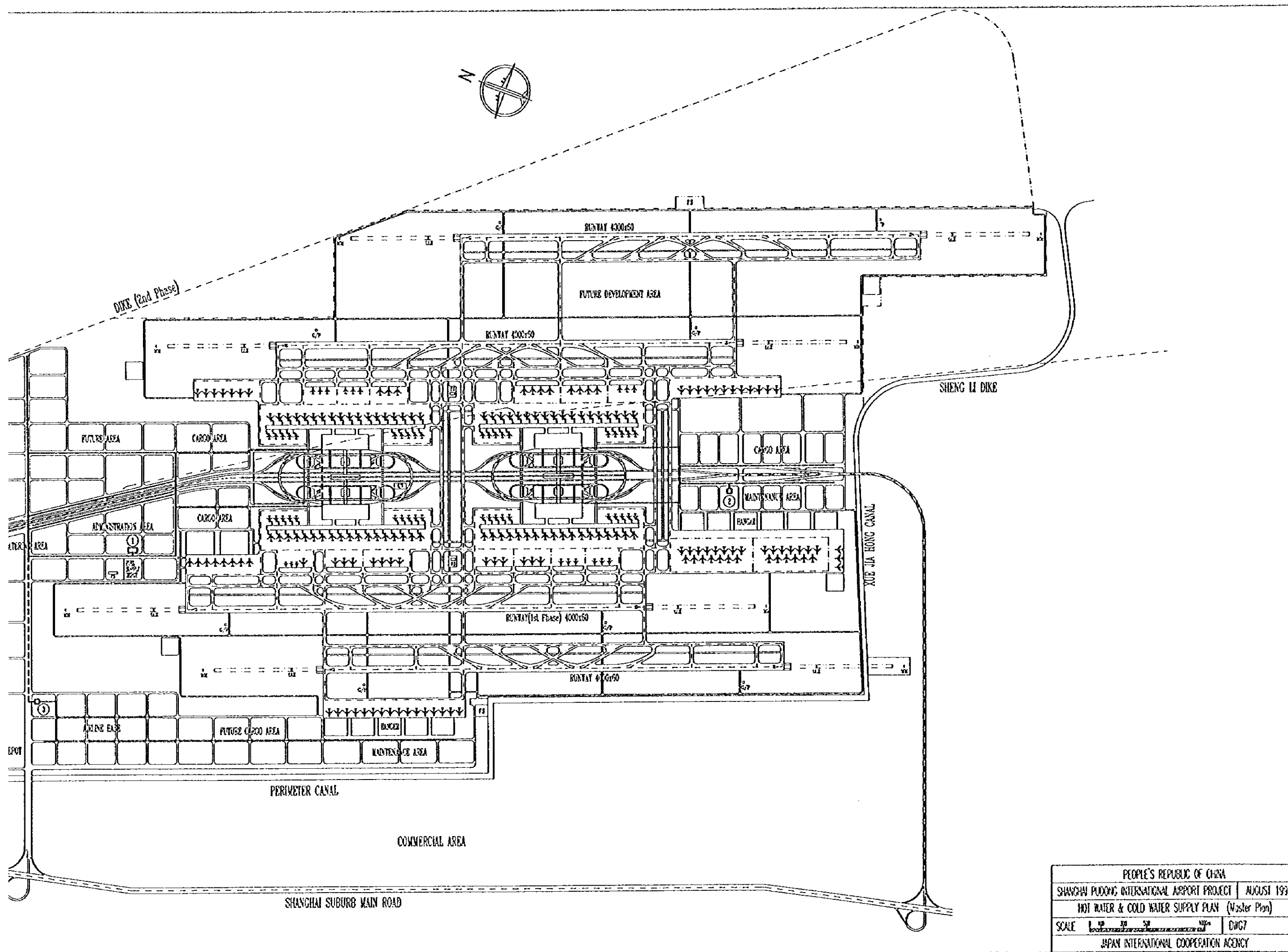
FUTURE CARGO AREA

BANKS

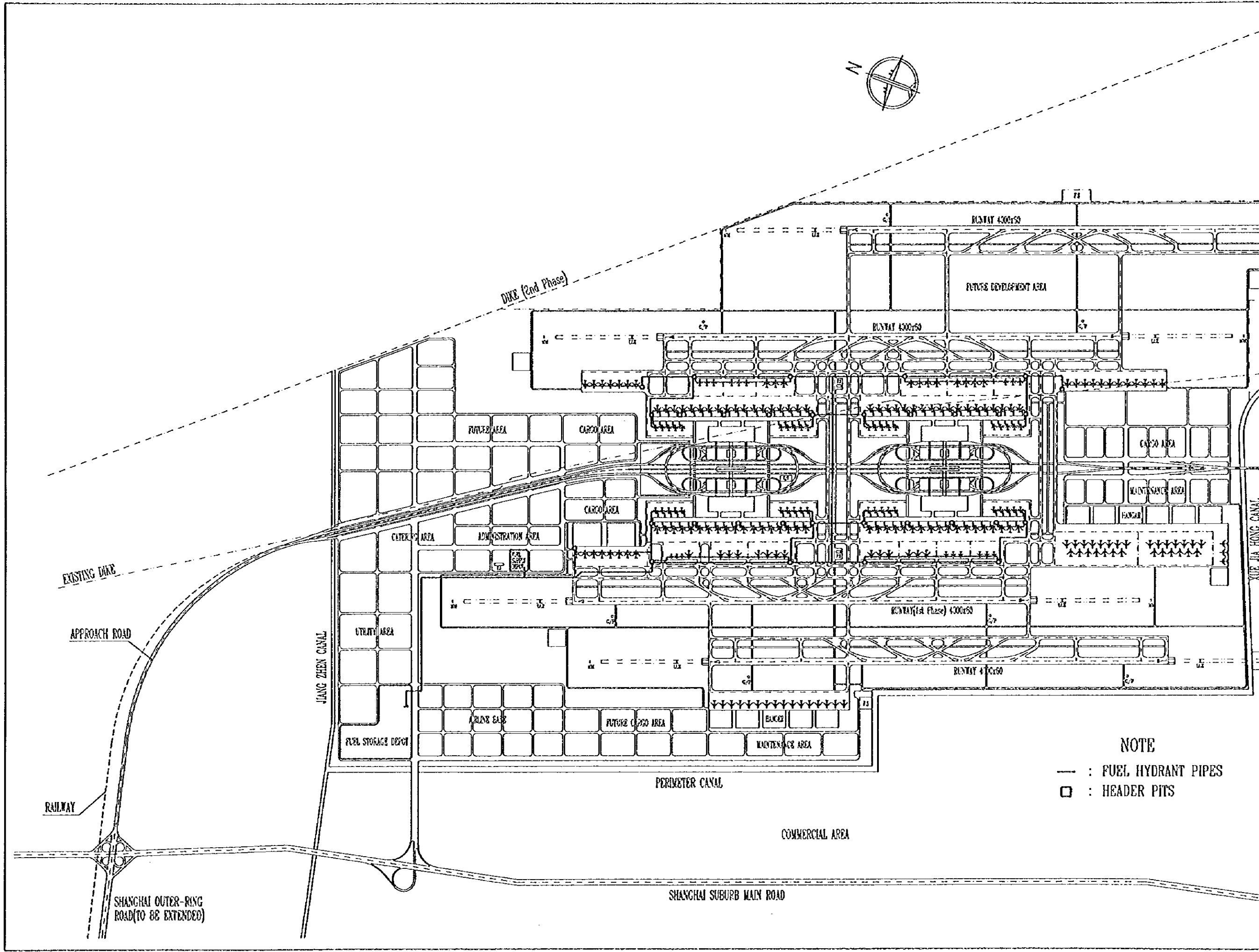
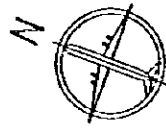
FUEL STORAGE DEPOT

MAINTENANCE AREA

XUE JIA HONG CANAL

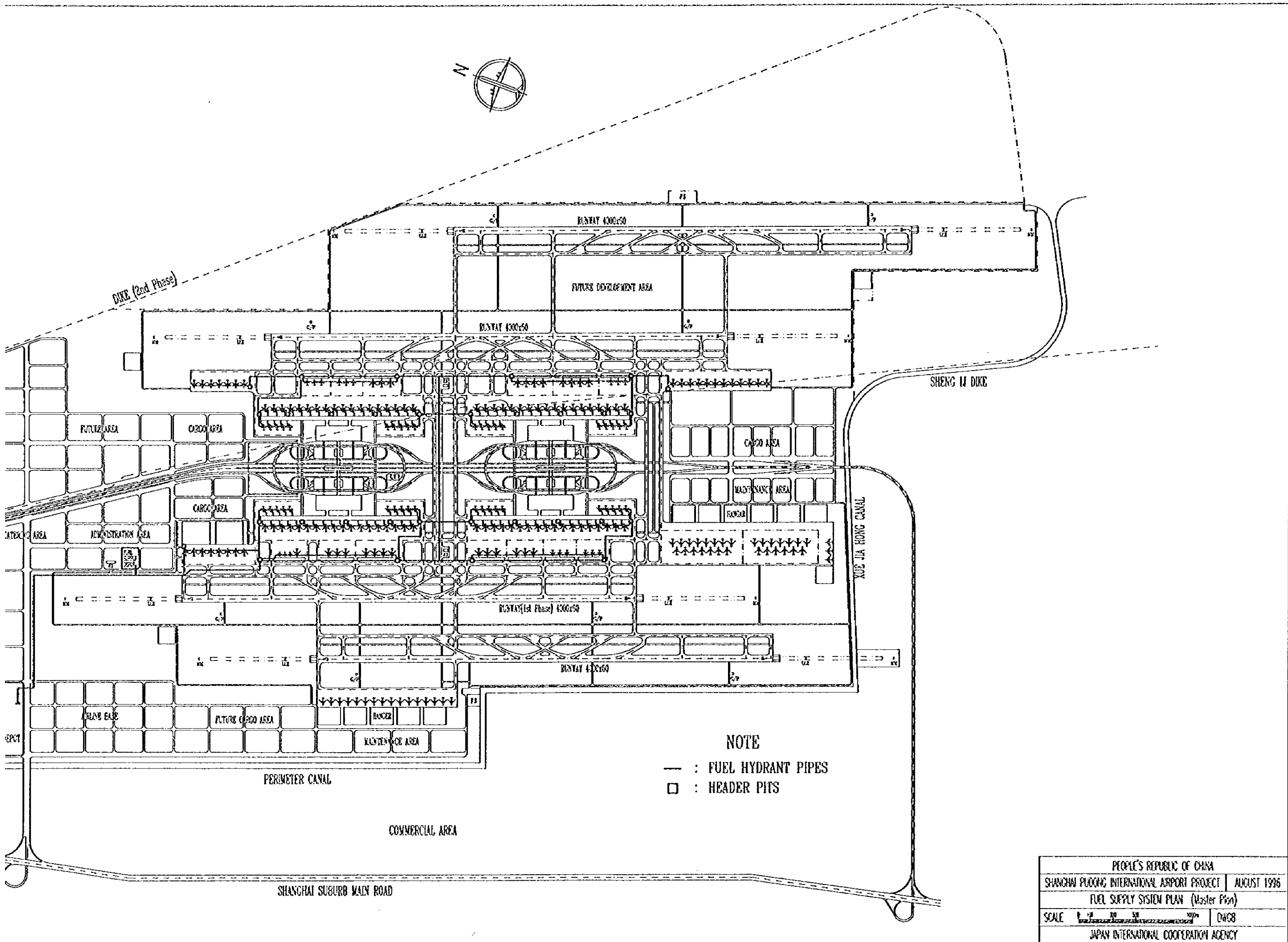


PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	AUGUST 1996
HOT WATER & COLD WATER SUPPLY PLAN (Master Plan)	
SCALE	DWG7
JAPAN INTERNATIONAL COOPERATION AGENCY	



NOTE

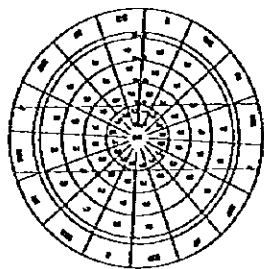
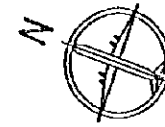
- : FUEL HYDRANT PIPES
- : HEADER PITS



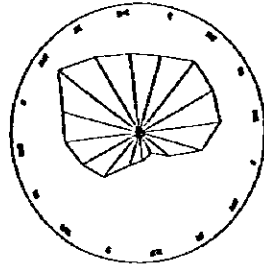
NOTE  
 — : FUEL HYDRANT PIPES  
 □ : HEADER PITS

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	AUGUST 1996
FUEL SUPPLY SYSTEM PLAN (Master Plan)	
SCALE	1:1000
D#08	
JAPAN INTERNATIONAL COOPERATION AGENCY	

# SHANGHAI PUDONG INTERNATIONAL AIRPORT GENERAL SITE PLAN (1st Phase Plan)



WIND COVERAGE 97.5%



WIND ROSE

DIKE (2nd Phase)

EXISTING DIKE

APPROACH ROAD

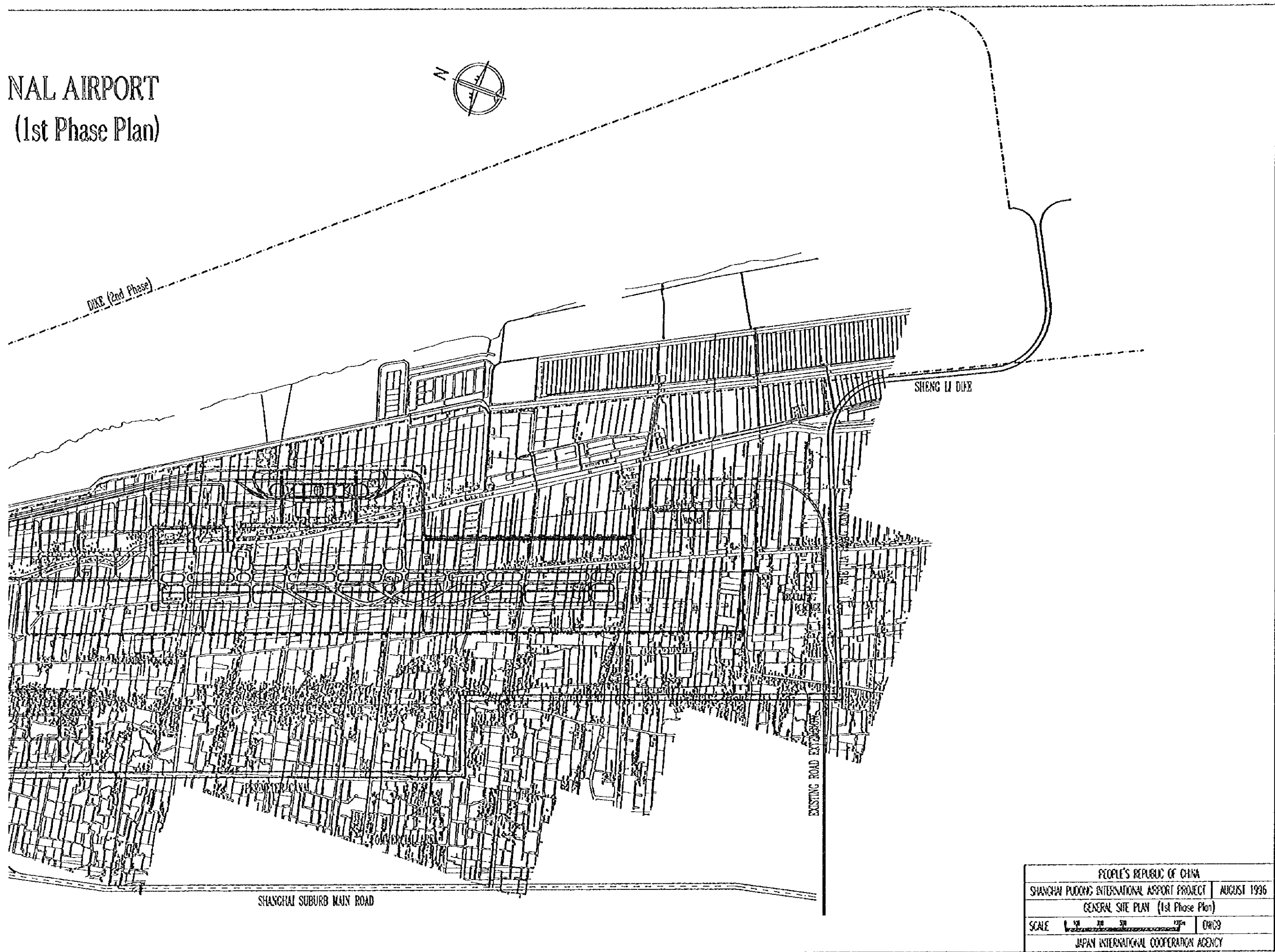
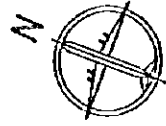
SHANGHAI OUTER-RING  
ROAD (TO BE EXTENDED)

SHANGHAI SUBURB MAIN ROAD

EXISTING ROAD EXTENSION

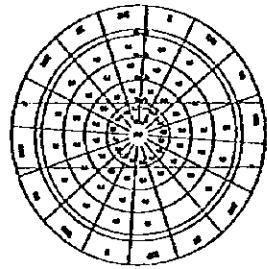
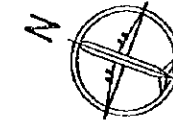


# NAL AIRPORT (1st Phase Plan)

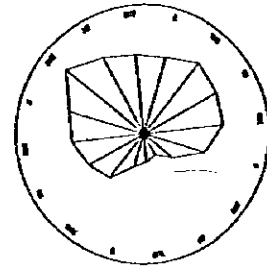


PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDDING INTERNATIONAL AIRPORT PROJECT	AUGUST 1936
GENERAL SITE PLAN (1st Phase Plan)	
SCALE	DWGS
JAPAN INTERNATIONAL COOPERATION AGENCY	

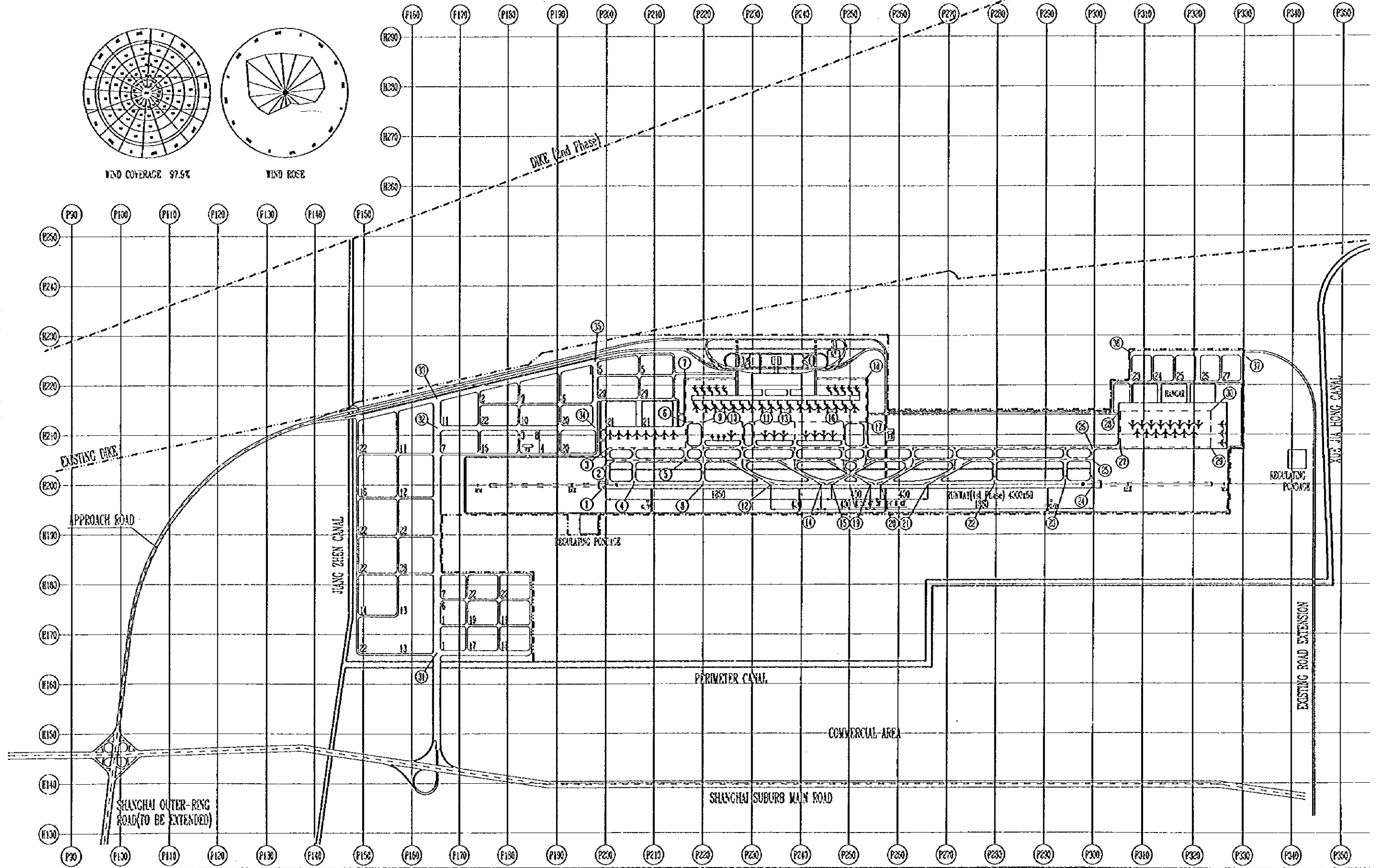
# SHANGHAI PUDONG INTERNATIONAL AIRPORT GENERAL LAYOUT PLAN (1st Phase Plan)



WIND COVERAGE 97.5%

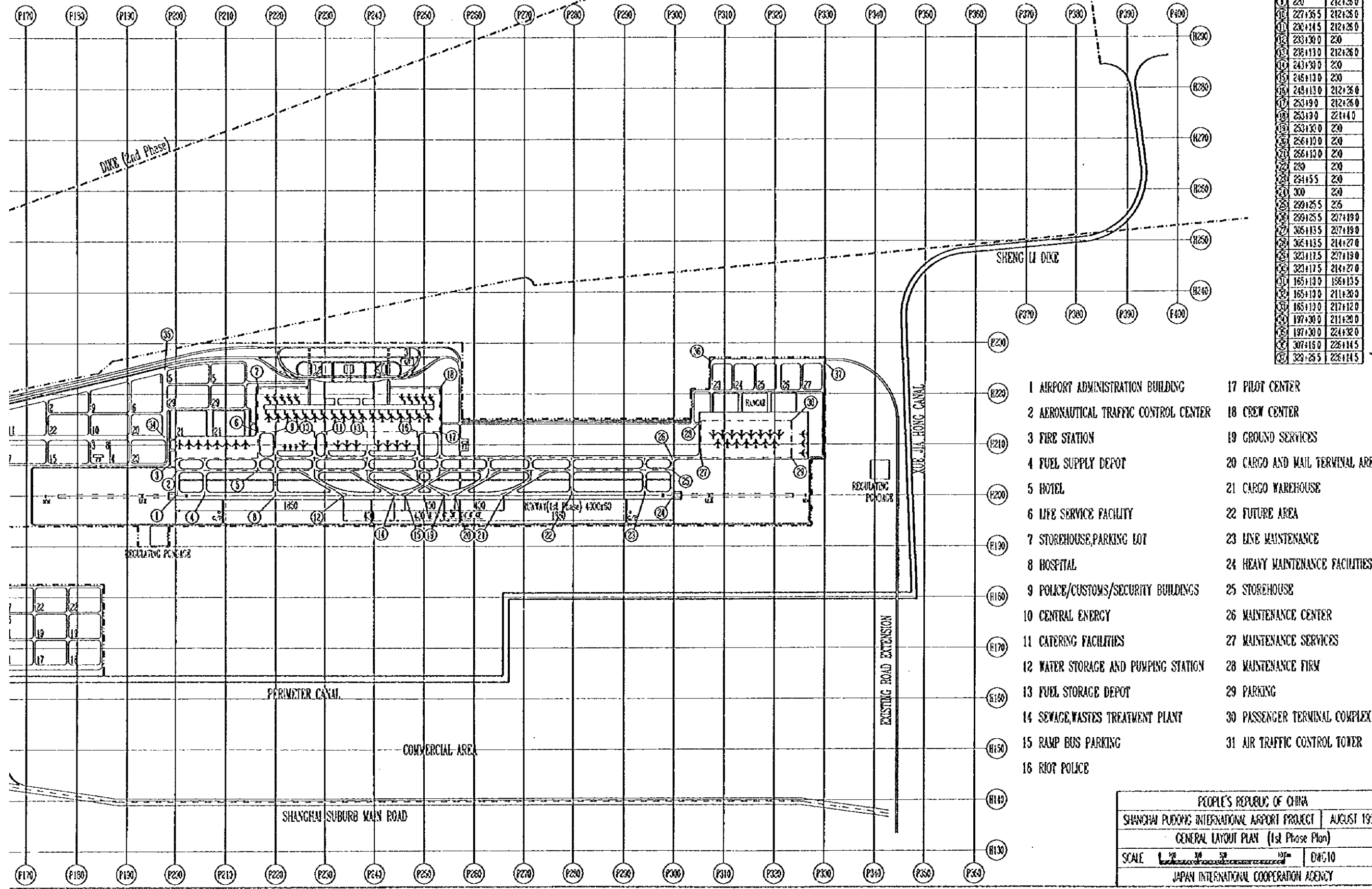
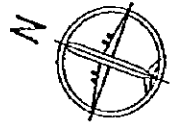


WIND ROSE





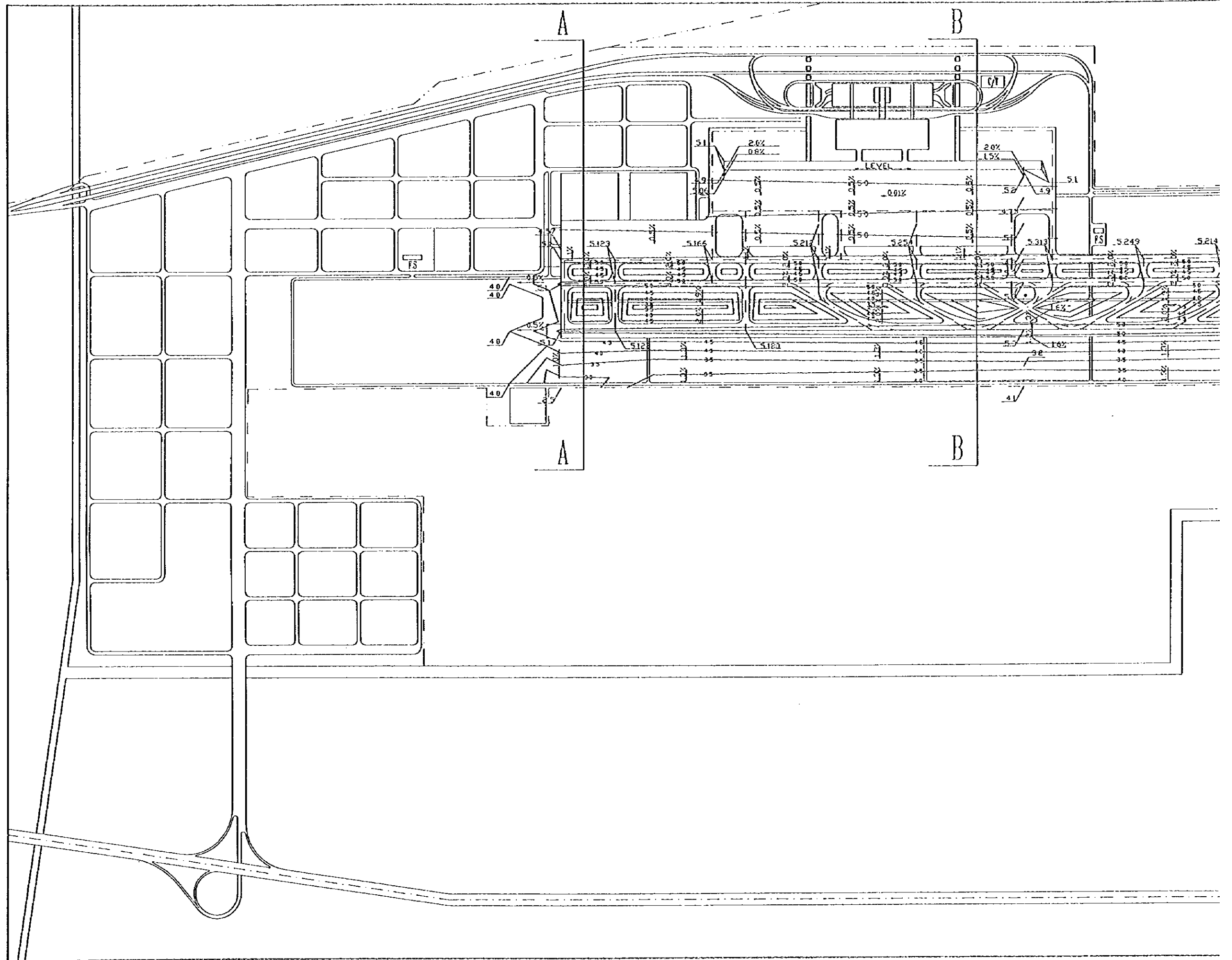
# SHANGHAI PUDONG INTERNATIONAL AIRPORT (1st Phase Plan)

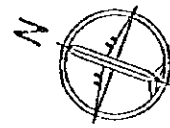
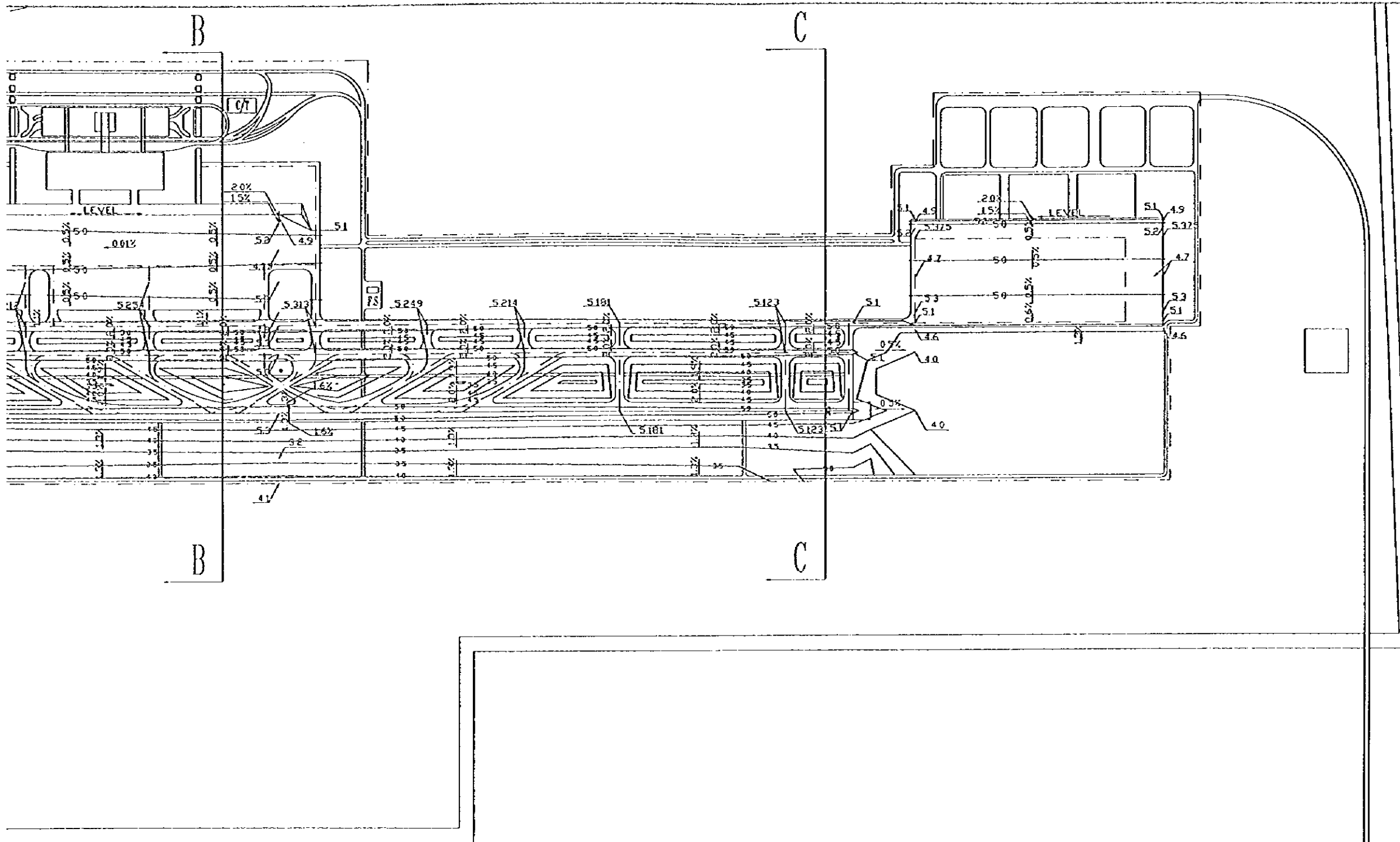


	P	H
1	200	230
2	205+14.5	235
3	205+14.5	237+19.0
4	205+34.5	230
5	216+17.0	235
6	216+17.0	212+26.0
7	216+17.0	221+14.0
8	220	230
9	220	212+26.0
10	227+35.5	212+26.0
11	230+14.5	212+26.0
12	233+30.0	230
13	238+13.0	212+26.0
14	243+30.0	230
15	245+13.0	230
16	245+13.0	212+26.0
17	253+19.0	212+26.0
18	253+13.0	221+14.0
19	253+30.0	230
20	256+10.0	230
21	256+10.0	230
22	259+25.5	230
23	259+25.5	235
24	259+25.5	237+19.0
25	265+13.5	237+19.0
26	265+13.5	214+27.0
27	223+17.5	237+19.0
28	223+17.5	214+27.0
29	165+13.0	156+13.5
30	165+13.0	211+26.0
31	165+13.0	217+12.0
32	197+30.0	211+26.0
33	197+30.0	224+32.0
34	307+15.0	226+14.5
35	323+25.5	226+14.5

- 1 AIRPORT ADMINISTRATION BUILDING
- 2 AERONAUTICAL TRAFFIC CONTROL CENTER
- 3 FIRE STATION
- 4 FUEL SUPPLY DEPOT
- 5 HOTEL
- 6 LIFE SERVICE FACILITY
- 7 STOREHOUSE, PARKING LOT
- 8 HOSPITAL
- 9 POLICE/CUSTOMS/SECURITY BUILDINGS
- 10 CENTRAL ENERGY
- 11 CATERING FACILITIES
- 12 WATER STORAGE AND PUMPING STATION
- 13 FUEL STORAGE DEPOT
- 14 SEWAGE, WASTES TREATMENT PLANT
- 15 RAMP BUS PARKING
- 16 RIOT POLICE
- 17 PILOT CENTER
- 18 CREW CENTER
- 19 GROUND SERVICES
- 20 CARGO AND MAIL TERMINAL AREA
- 21 CARGO WAREHOUSE
- 22 FUTURE AREA
- 23 LINE MAINTENANCE
- 24 HEAVY MAINTENANCE FACILITIES
- 25 STOREHOUSE
- 26 MAINTENANCE CENTER
- 27 MAINTENANCE SERVICES
- 28 MAINTENANCE FIRM
- 29 PARKING
- 30 PASSENGER TERMINAL COMPLEX
- 31 AIR TRAFFIC CONTROL TOWER

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 SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | AUGUST 1996  
 GENERAL LAYOUT PLAN (1st Phase Plan)  
 SCALE: 1:5000 | DWG-10  
 JAPAN INTERNATIONAL COOPERATION AGENCY





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PLANNING HEIGHTS (1st Phase Plan)	
SCALE 1/500	DWG11
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