

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 III Detailed Design

PART III-2 Airfield Lighting System

PART III-3 Fuel Supply System

PART III-4 Fire Fighting and Rescue Facilities

SEPTEMBER 1997

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# DETAILED DESIGN OF SHANGHAI PUDONG INTERNATIONAL AIRPORT FINAL REPORT

## VOLUME II DESIGN DRAWING

PART III Detailed Design (2/2)

PART III-2 Airfield Lighting System

PART III-3 Fuel Supply System

PART III-4 Fire Fighting and Rescue Facilities

SEPTEMBER 1997

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# DETAILED DESIGN OF SHANGHAI PUDONG INTERNATIONAL AIRPORT FINAL REPORT

PART III-2 Airfield Lighting System

SEPTEMBER 1997

NIPPON KOEI CO., LTD  
NIKKEN SEKKEI LTD.

# DETAILED DESIGN OF SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT

NIPPON KOEI CO., LTD.  
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## Airfield Lighting System (1/4)

DWG No.	TITLE	題 目
2-1.1	LEGEND	凡例
2-1.2	ABBREVIATIONS	略語
2-1.3	TOTAL LAYOUT OF AIR FIELD LIGHTING SYSTEM(1/20)	航空灯火配置平面図 (1/20)
2-1.4	TOTAL LAYOUT OF AIR FIELD LIGHTING SYSTEM(2/20)	航空灯火配置平面図 (2/20)
2-1.5	TOTAL LAYOUT OF AIR FIELD LIGHTING SYSTEM(3/20)	航空灯火配置平面図 (3/20)
2-1.6	TOTAL LAYOUT OF AIR FIELD LIGHTING SYSTEM(4/20)	航空灯火配置平面図 (4/20)
2-1.7	TOTAL LAYOUT OF AIR FIELD LIGHTING SYSTEM(5/20)	航空灯火配置平面図 (5/20)
2-1.8	TOTAL LAYOUT OF AIR FIELD LIGHTING SYSTEM(6/20)	航空灯火配置平面図 (6/20)
2-1.9	TOTAL LAYOUT OF AIR FIELD LIGHTING SYSTEM(7/20)	航空灯火配置平面図 (7/20)
2-1.10	TOTAL LAYOUT OF AIR FIELD LIGHTING SYSTEM(8/20)	航空灯火配置平面図 (8/20)
2-1.11	TOTAL LAYOUT OF AIR FIELD LIGHTING SYSTEM(9/20)	航空灯火配置平面図 (9/20)
2-1.12	TOTAL LAYOUT OF AIR FIELD LIGHTING SYSTEM(10/20)	航空灯火配置平面図 (10/20)
2-1.13	TOTAL LAYOUT OF AIR FIELD LIGHTING SYSTEM(11/20)	航空灯火配置平面図 (11/20)
2-1.14	TOTAL LAYOUT OF AIR FIELD LIGHTING SYSTEM(12/20)	航空灯火配置平面図 (12/20)
2-1.15	TOTAL LAYOUT OF AIR FIELD LIGHTING SYSTEM(13/20)	航空灯火配置平面図 (13/20)
2-1.16	TOTAL LAYOUT OF AIR FIELD LIGHTING SYSTEM(14/20)	航空灯火配置平面図 (14/20)
2-1.17	TOTAL LAYOUT OF AIR FIELD LIGHTING SYSTEM(15/20)	航空灯火配置平面図 (15/20)
2-1.18	TOTAL LAYOUT OF AIR FIELD LIGHTING SYSTEM(16/20)	航空灯火配置平面図 (16/20)
2-1.19	TOTAL LAYOUT OF AIR FIELD LIGHTING SYSTEM(17/20)	航空灯火配置平面図 (17/20)
2-1.20	TOTAL LAYOUT OF AIR FIELD LIGHTING SYSTEM(18/20)	航空灯火配置平面図 (18/20)
2-1.21	TOTAL LAYOUT OF AIR FIELD LIGHTING SYSTEM(19/20)	航空灯火配置平面図 (19/20)
2-1.22	TOTAL LAYOUT OF AIR FIELD LIGHTING SYSTEM(20/20)	航空灯火配置平面図 (20/20)
2-1.23	SECTION PLAN OF PALS(R/W 17)	進入灯配置断面図 (滑走路17側)
2-1.24	SECTION PLAN OF PALS(R/W 35)	進入灯配置断面図 (滑走路35側)
2-1.25	WIRING DIAGRAM OF PALS(R/W 17)	進入灯配線図 (滑走路17側)
2-1.26	WIRING DIAGRAM OF PALS(R/W 35)	進入灯配線図 (滑走路35側)
2-1.27	TYPICAL INSTALLATION PLAN OF PALS(1/2)	進入灯標準設置図 (1/2)
2-1.28	TYPICAL INSTALLATION PLAN OF PALS(2/2)	進入灯標準設置図 (2/2)
2-1.29	WIRING DIAGRAM OF SFL(R/W 17)	連鎖式閃光灯配線図 (滑走路17側)
2-1.30	WIRING DIAGRAM OF SFL(R/W 35)	連鎖式閃光灯配線図 (滑走路35側)
2-1.31	TYPICAL INSTALLATION PLAN AND CONNECTION DIAGRAM OF SFL	連鎖式閃光灯標準設置図・系統図
2-1.32	WIRING DIAGRAM AND TYPICAL INSTALLATION PLAN OF PAPI	進入角指示灯配線図・標準設置図
2-1.33	WIRING DIAGRAM AND TYPICAL INSTALLATION PLAN OF REDL	滑走路灯配線図・標準設置図
2-1.34	WIRING DIAGRAM AND TYPICAL INSTALLATION PLAN OF RTIL/RENL	滑走路末端灯/終端灯配線図・標準設置図
2-1.35	WIRING DIAGRAM AND TYPICAL INSTALLATION PLAN OF RCIL	滑走路中心線灯配線図・標準設置図
2-1.36	WIRING DIAGRAM AND TYPICAL INSTALLATION PLAN OF RTZL	接地帯灯配線図・標準設置図
2-1.37	WIRING DIAGRAM AND TYPICAL INSTALLATION PLAN OF TCIL(1/5)	誘導路中心線灯配線図・標準設置図 (1/5)
2-1.38	WIRING DIAGRAM AND TYPICAL INSTALLATION PLAN OF TCIL(2/5)	誘導路中心線灯配線図・標準設置図 (2/5)
2-1.39	WIRING DIAGRAM AND TYPICAL INSTALLATION PLAN OF TCIL(3/5)	誘導路中心線灯配線図・標準設置図 (3/5)
2-1.40	WIRING DIAGRAM AND TYPICAL INSTALLATION PLAN OF TCIL(4/5)	誘導路中心線灯配線図・標準設置図 (4/5)
2-1.41	WIRING DIAGRAM AND TYPICAL INSTALLATION PLAN OF TCIL(5/5)	誘導路中心線灯配線図・標準設置図 (5/5)
2-1.42	WIRING DIAGRAM AND TYPICAL INSTALLATION PLAN OF TWYL(1/3)	誘導路灯配線図・標準設置図 (1/3)
2-1.43	WIRING DIAGRAM AND TYPICAL INSTALLATION PLAN OF TWYL(2/3)	誘導路灯配線図・標準設置図 (2/3)
2-1.44	WIRING DIAGRAM AND TYPICAL INSTALLATION PLAN OF TWYL(3/3)	誘導路灯配線図・標準設置図 (3/3)
2-1.45	TYPICAL INSTALLATION PLAN OF TCIL AND TWYL	誘導路中心線灯・誘導路灯標準設置図
2-1.46	WIRING DIAGRAM OF STBL AND RUNWAY GUARD LIGHTS	停止線灯・滑走路警戒灯配線図
2-1.47	TYPICAL INSTALLATION PLAN OF STBL AND RUNWAY GUARD LIGHTS	停止線灯・滑走路警戒灯標準設置図
2-1.48	WIRING DIAGRAM OF TXGS(1/2)	誘導路案内灯配線図 (1/2)
2-1.49	WIRING DIAGRAM OF TXGS(2/2)	誘導路案内灯配線図 (2/2)
2-1.50	TYPICAL INSTALLATION PLAN OF TXGS	誘導路案内灯標準設置図
2-1.51	CABLING AND INSTALLATION PLAN OF WDIL	風向灯配線図・設置図
2-1.52	WIRING DIAGRAM AND TYPICAL INSTALLATION PLAN OF ROAD-HOLDING POSITION LIGHTS	車輛通路待機位置灯配線図・標準設置図
2-1.53	SCHEMATIC CONNECTION DIAGRAM OF AFL CONTROL AND MONITORING SYSTEM	航空灯火監視制御系統配線図

# DETAILED DESIGN OF SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT

NIPPON KOEI CO., LTD.  
NIKKEN SEKKEI LTD.

## Airfield Lighting System (2/4)

DWG No.	TITLE	題 目
2-154	SCHEMATIC DIAGRAM OF BURNT-OUT LAMP POSITION DETECTION SYSTEM	断芯檢出系統圖
2-155	CONNECTION DIAGRAM OF FLO(CARGO AREA)	17'の照明灯系統圖(貨物地区)
2-156	LAYOUT AND PIPING OF FLO(CARGO AREA)	17'の照明灯平面圖・配管圖(貨物地区)
2-157	CONNECTION DIAGRAM OF FLO(TERMINAL AREA-1/2)	17'の照明灯系統圖(ターミナル地区)(1/2)
2-158	CONNECTION DIAGRAM OF FLO(TERMINAL AREA-2/2)	17'の照明灯系統圖(ターミナル地区)(2/2)
2-159	LAYOUT AND PIPING OF FLO(TERMINAL AREA)	17'の照明灯平面圖・配管圖(ターミナル地区)
2-160	CONNECTION DIAGRAM OF FLO(MAINTENANCE AREA)	17'の照明灯系統圖(整備地区)
2-161	LAYOUT AND PIPING OF FLO(MAINTENANCE AREA)	17'の照明灯平面圖・配管圖(整備地区)
2-162	TYPICAL INSTALLATION PLAN OF FLO,ASIS AND VDGS	17'の照明灯/ストロボ番号表示灯/駐機位置指示灯標準配置圖
2-163	FOUNDATION OF APRON FLOODLIGHTING	17'の照明灯基礎詳細圖
2-164	SCHEMATIC DIAGRAM OF AFL CONTROL AND MONITORING SYSTEM BETWEEN BUILDINGS	航空灯火地区間監視制御系統圖
2-165	EXTERIOR DIAGRAM OF CENTRALIZED CONTROL PLATFORM OF APRON FLOODLIGHT	17'の照明灯用制御機・柱外観圖
2-166	EXTERIOR DIAGRAM OF CENTRALIZED CONTROL PLATFORM OF CARGO APRON FLOODLIGHT	17'の照明灯用制御機・柱外観圖(貨物地区)
2-167	PIPING PLAN(1/4)	配管計画(1/4)
2-168	PIPING PLAN(2/4)	配管計画(2/4)
2-169	PIPING PLAN(3/4)	配管計画(3/4)
2-170	PIPING PLAN(4/4)	配管計画(4/4)
2-171	DETAILS OF MAN HOLES	マンホール詳細圖
2-172	SECTIONAL DETAILS OF EXTERNAL PIPING	配管詳細断面圖
2-E1	POWER SYSTEM SINGLE LINE DIAGRAM OF MAIN AFL SUB-STATION(1/2)	主灯火変電所電力系統単線結線圖(1/2)
2-E2	POWER SYSTEM SINGLE LINE DIAGRAM OF MAIN AFL SUB-STATION(2/2)	主灯火変電所電力系統単線結線圖(2/2)
2-E3	POWER SYSTEM SINGLE LINE DIAGRAM OF SECONDARY AFL SUB-STATION(1/2)	副灯火変電所電力系統単線結線圖(1/2)
2-E4	POWER SYSTEM SINGLE LINE DIAGRAM OF SECONDARY AFL SUB-STATION(2/2)	副灯火変電所電力系統単線結線圖(2/2)
2-E5	PRIMARY POWER LINE DIAGRAM FOR MAIN AFL SUB-STATION(1/2)	主灯火変電所一次側系統圖(1/2)
2-E6	PRIMARY POWER LINE DIAGRAM FOR MAIN AFL SUB-STATION(2/2)	主灯火変電所一次側系統圖(2/2)
2-E7	SECONDARY POWER LINE DIAGRAM FOR MAIN AFL SUB-STATION(1/6)	主灯火変電所二次側系統圖(1/6)
2-E8	SECONDARY POWER LINE DIAGRAM FOR MAIN AFL SUB-STATION(2/6)	主灯火変電所二次側系統圖(2/6)
2-E9	SECONDARY POWER LINE DIAGRAM FOR MAIN AFL SUB-STATION(3/6)	主灯火変電所二次側系統圖(3/6)
2-E10	SECONDARY POWER LINE DIAGRAM FOR MAIN AFL SUB-STATION(4/6)	主灯火変電所二次側系統圖(4/6)
2-E11	SECONDARY POWER LINE DIAGRAM FOR MAIN AFL SUB-STATION(5/6)	主灯火変電所二次側系統圖(5/6)
2-E12	SECONDARY POWER LINE DIAGRAM FOR MAIN AFL SUB-STATION(6/6)	主灯火変電所二次側系統圖(6/6)
2-E13	PRIMARY POWER LINE DIAGRAM FOR SECONDARY AFL SUB-STATION(1/2)	副灯火変電所一次側系統圖(1/2)
2-E14	PRIMARY POWER LINE DIAGRAM FOR SECONDARY AFL SUB-STATION(2/2)	副灯火変電所一次側系統圖(2/2)
2-E15	SECONDARY POWER LINE DIAGRAM FOR SECONDARY AFL SUB-STATION(1/6)	副灯火変電所二次側系統圖(1/6)
2-E16	SECONDARY POWER LINE DIAGRAM FOR SECONDARY AFL SUB-STATION(2/6)	副灯火変電所二次側系統圖(2/6)
2-E17	SECONDARY POWER LINE DIAGRAM FOR SECONDARY AFL SUB-STATION(3/6)	副灯火変電所二次側系統圖(3/6)
2-E18	SECONDARY POWER LINE DIAGRAM FOR SECONDARY AFL SUB-STATION(4/6)	副灯火変電所二次側系統圖(4/6)
2-E19	SECONDARY POWER LINE DIAGRAM FOR SECONDARY AFL SUB-STATION(5/6)	副灯火変電所二次側系統圖(5/6)
2-E20	SECONDARY POWER LINE DIAGRAM FOR SECONDARY AFL SUB-STATION(6/6)	副灯火変電所二次側系統圖(6/6)
2-E21	STAND-BY GENERATOR SET LAYOUT OF MAIN AND SECONDARY AFL SUB-STATION	主及び副灯火変電所非常用発電機配置圖
2-E22	SCHEMATIC CONNECTION DIAGRAM OF UPS	無停電電源系統圖
2-E23	FOUNDATION DRAWING OF DIESEL GENERATOR SET	非常用発電機基礎詳細圖
2-E24	PIPING SYSTEM DRAWING OF OIL TANK	非常用発電機用給油タンク配管圖
2-E25	DIMENSION AND INSTALLATION DETAIL DRAWING OF HORIZONTAL OIL TANK	非常用発電機用給油タンク設置詳細圖
2-E26	SCHEMATIC CONNECTION DIAGRAM OF POWER CONTROL AND MONITORING SYSTEM	電源監視制御系統結線圖

# DETAILED DESIGN OF SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT

NIPPON KOEI CO., LTD.  
NIKKEN SEKKEI LTD.

## Airfield Lighting System (3/4)

DWG No.	TITLE	題 目
2-A0	MAIN AFL. SUB STATION	主灯火用変電所 配置図・補装詳細図
2-A1	PLOT PLAN AND PAVING DETAILS	仕上表・建具表
2-A2	BUILDING CONSTRUCTION TABLE AND DOOR AND WINDOW TABLE	特記仕様書
2-A3	FINISHING TECHNICAL SPECIFICATIONS	1階平面図
2-A4	1st FLOOR PLAN	2階平面図
2-A5	2nd FLOOR PLAN	屋上平面図
2-A6	ROOF PLAN	立面図・断面図
2-A7	ELEVATIONS AND SECTION	段階詳細図
2-A8	STAIR DETAILS	門扉・フェンス詳細図
2-A8	GATE AND FENCE DETAILS	
		基礎伏図
2-S1	FOUNDATION PLAN	2階スラブ・梁配筋図
2-S2	2nd FLOOR REINFORCEMENT DETAILS	屋根スラブ・梁配筋図・柱配筋リスト
2-S3	ROOF REINFORCEMENT DETAILS AND COLUMN REINFORCING STEEL TABLE	梁配筋詳細図 (1)・梁配筋リスト
2-S4	GIRDER AND BEAM REINFORCEMENT DETAILS(1) AND BEAM REINFORCING STEEL TABLE	梁配筋詳細図 (2)・梁配筋リスト
2-S5	GIRDER AND BEAM REINFORCEMENT DETAILS(2) AND BEAM REINFORCING STEEL TABLE	梁配筋詳細図 (3)・梁配筋リスト
2-S6	GIRDER AND BEAM REINFORCEMENT DETAILS(3) AND BEAM REINFORCING STEEL TABLE	梁配筋詳細図 (4)・梁配筋リスト
2-S7	GIRDER AND BEAM REINFORCEMENT DETAILS(4) AND BEAM REINFORCING STEEL TABLE	段階配筋詳細図 (1)
2-S8	STAIR REINFORCEMENT DETAILS(1)	段階配筋詳細図 (2)
2-S9	STAIR REINFORCEMENT DETAILS(2)	
		1階給排水衛生消火栓設備図
2-M1	1st FLOOR PLAN, WATER SUPPLY AND DRAINAGE AND FIRE FIGHTING SYSTEM	2階給排水衛生消火栓設備図
2-M2	2nd FLOOR PLAN, WATER SUPPLY AND DRAINAGE AND FIRE FIGHTING SYSTEM	給排水衛生詳細図・系統図
2-M3	WATER AND DRAINAGE DETAILS AND DIAGRAM	1階換気・空調設備図
2-M4	1st FLOOR PLAN, VENTILATION AND AIR CONDITIONING SYSTEM	2階換気・空調設備図
2-M5	2nd FLOOR PLAN, VENTILATION AND AIR CONDITIONING SYSTEM	屋上空調設備図
2-M6	ROOF PLAN, AIR CONDITIONING SYSTEM	特殊消火(CO2)系統図
2-M7	FIRE FIGHTING (CO2) SYSTEM DETAILS	オイルポンプ制御盤設備図
2-M8	PRINCIPLE DIAGRAM OF AUTOMATIC FUELING CONTROL BOX OF POWER FUEL PUMP	
		1階機器配置図
2-AE1	1st FLOOR PLAN, LAYOUT PLAN FOR EQUIPMENT	2階機器配置図
2-AE2	2nd FLOOR PLAN, LAYOUT PLAN FOR EQUIPMENT	1階電灯・コンセント設備図
2-AE3	1st FLOOR PLAN, ILLUMINATION PLAN	2階電灯・コンセント設備図
2-AE4	2nd FLOOR PLAN, ILLUMINATION PLAN	1階自動火災報知器設備図
2-AE5	1st FLOOR PLAN, FIRE ALARM DETECTOR PLAN	2階自動火災報知器設備図
2-AE6	2nd FLOOR PLAN, FIRE ALARM DETECTOR PLAN	自動火災報知器設備系統図
2-AE7	FIRE ALARM DIAGRAM	避雷設備図
2-AE8	GROUNDING SYSTEM	換気機器制御盤設備図
2-AE9	PRINCIPLE DIAGRAM OF EXHAUST FAN CONTROL BOX	



# DETAILED DESIGN OF SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT

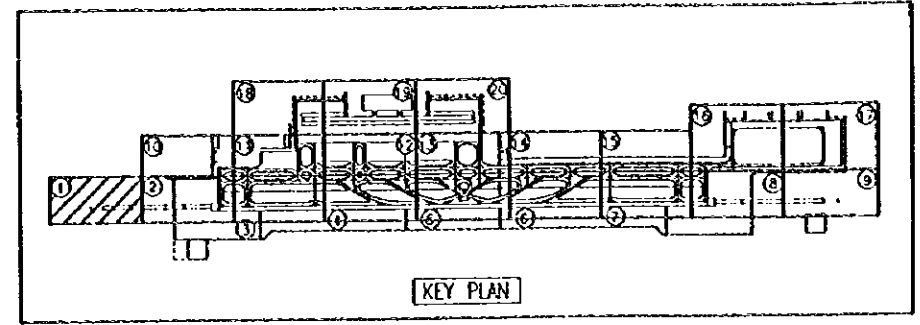
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## Airfield Lighting System (4/4)

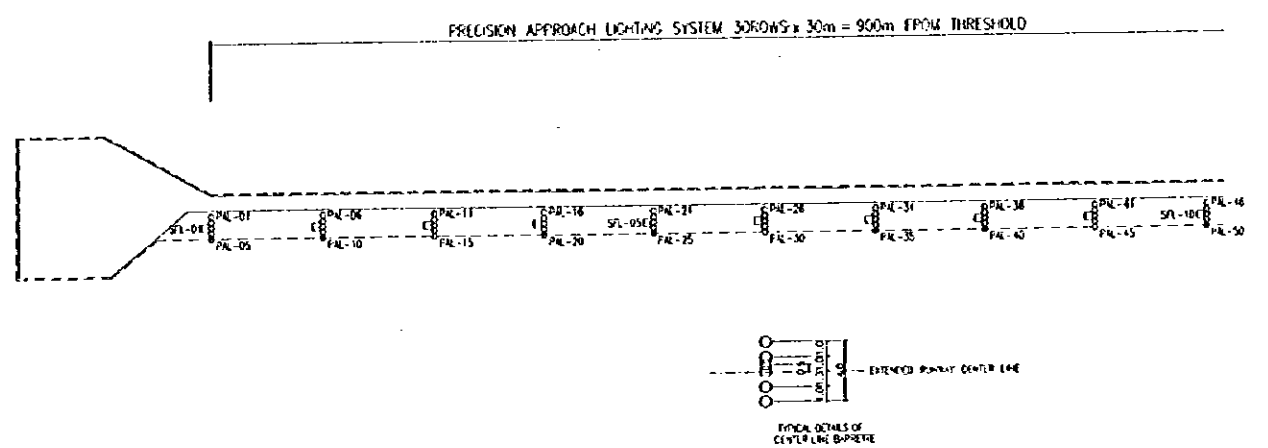
DWG No.	TITLE		題 目
2-A0	SECONDARY AFL SUB STATION	PLOT PLAN	副灯火川変電所 配置図
2-A1		BUILDING CONSTRUCTION TABLE AND DOOR AND WINDOW TABLE	仕上表・建具表
2-A2		FINISHING TECHNICAL SPECIFICATIONS	特記仕様書
2-A3		PLAN, ELEVATIONS AND PLAN DETAILS	平面図・立面図・平面詳細図
2-A4		ROOF PLAN, ELEVATION AND SECTION	屋上平面図・立面図・断面図
2-S1		FOUNDATION PLAN	基礎伏図
2-S2		ROOF REINFORCEMENT DETAILS	屋根スラブ・梁配筋図
2-S3		GIRDER AND BEAM REINFORCEMENT DETAILS(1) AND BEAM REINFORCING STEEL TABLE	梁配筋詳細図(1)・梁配筋リスト
2-S4		GIRDER AND BEAM REINFORCEMENT DETAILS(2) AND BEAM REINFORCING STEEL TABLE	梁配筋詳細図(2)・梁配筋リスト
2-M1		1st FLOOR PLAN, WATER SUPPLY AND DRAINAGE AND FIRE FIGHTING SYSTEM	1階給排水衛生消火設備図
2-M2		1st FLOOR PLAN, VENTILATION AND AIR CONDITIONING SYSTEM	1階換気・空調設備図
2-M3		FIRE FIGHTING (CO <sub>2</sub> ) SYSTEM DETAILS	特殊消火(CO <sub>2</sub> )系統図
2-M4		PRINCIPLE DIAGRAM OF AUTOMATIC FUELING CONTROL BOX OF POWER FUEL PUMP	オイルポンプ制御盤設備図
2-AE1		1st FLOOR PLAN, LAYOUT PLAN FOR EQUIPMENT	1階機器配置図
2-AE2		1st FLOOR PLAN, ILLUMINATION PLAN	1階電灯・コンセント設備図
2-AE3		1st FLOOR PLAN, FIRE ALARM DETECTOR PLAN	1階自動火災報知器設備図
2-AE4		FIRE ALARM DIAGRAM	自動火災報知機器系統図
2-AE5		GROUNDING SYSTEM	避雷設備図
2-AE6		PRINCIPLE DIAGRAM OF EXHAUST FAN CONTROL BOX	換気機器制御盤設備図
2-UA1	GARAGE (IN MAIN AFL SUB STATION)	BUILDING CONSTRUCTION TABLE, FINISHING TECHNICAL SPECIFICATIONS AND DOOR AND WINDOW TABLE	車庫 (主灯火川変電所内) 仕上表・特記仕様書・建具表
2-UA2		PLAN, ROOF PLAN, ELEVATIONS AND SECTION	平面図・屋上平面図・立面図・断面図
2-US1		FOUNDATION PLAN AND REINFORCEMENT DETAILS	基礎伏図・配筋詳細図
2-UE1		ILLUMINATION PLAN AND POWER LINE DIAGRAM	電灯・コンセント設備図・電灯分電盤設備図





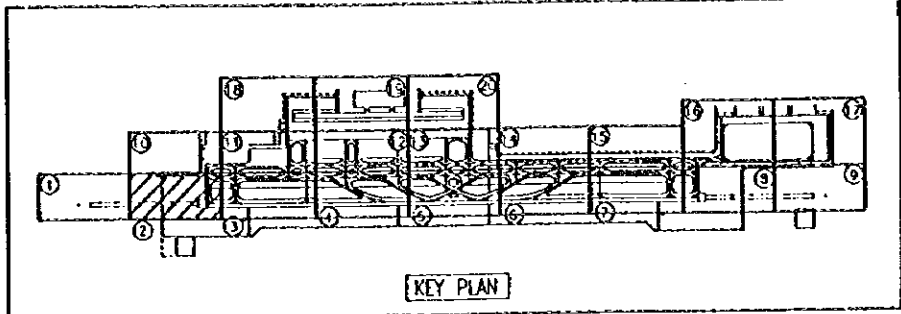


KEY PLAN

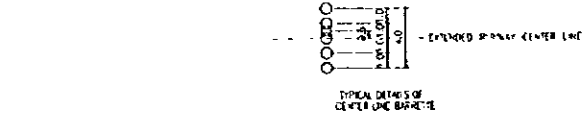
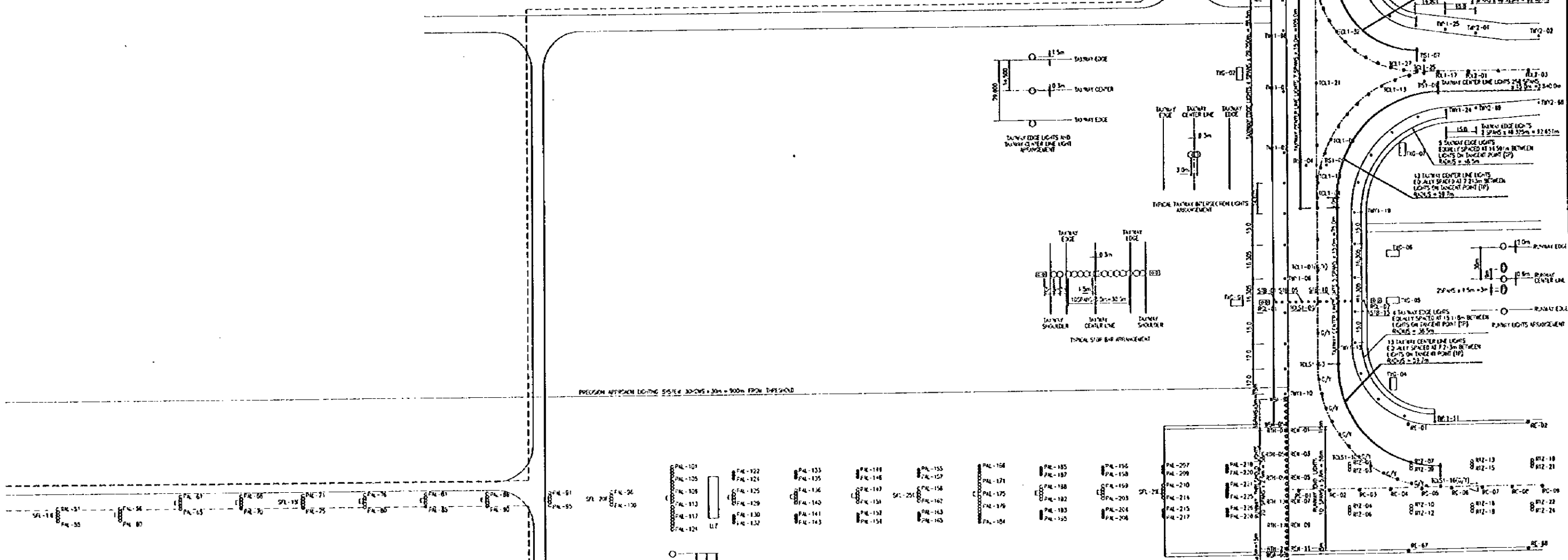
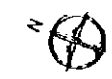


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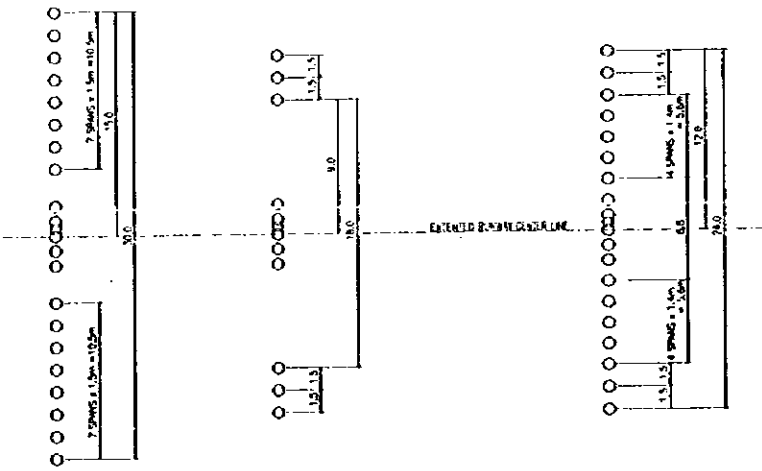
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
TOTAL LAYOUT OF AIR FIELD LIGHTING SYSTEM(1/20)	
SCALE 1/1000	DWG2-L3
JAPAN INTERNATIONAL COOPERATION AGENCY	



KEY PLAN



TYPICAL DETAILS OF CENTER LINE BARRETS

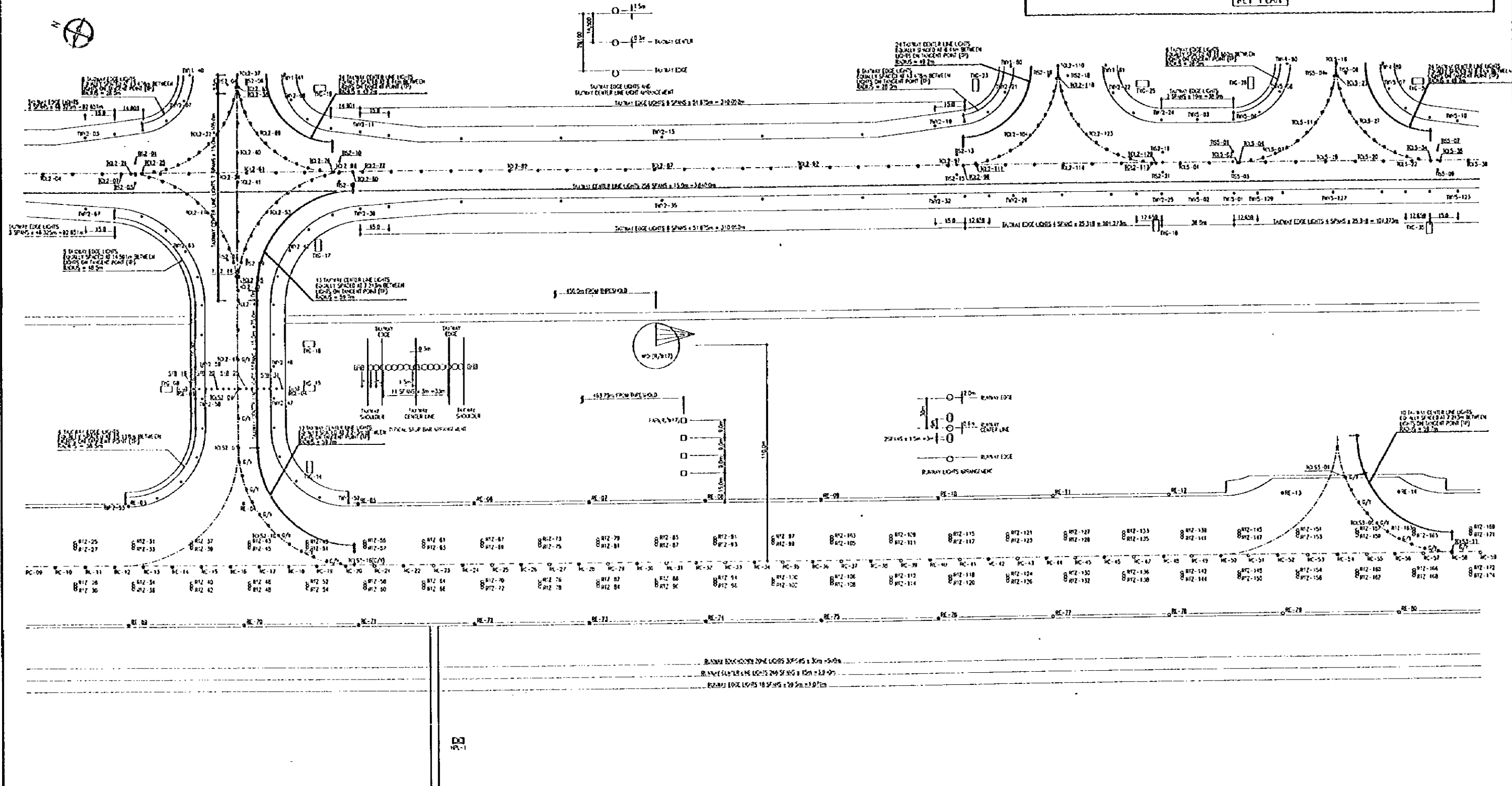
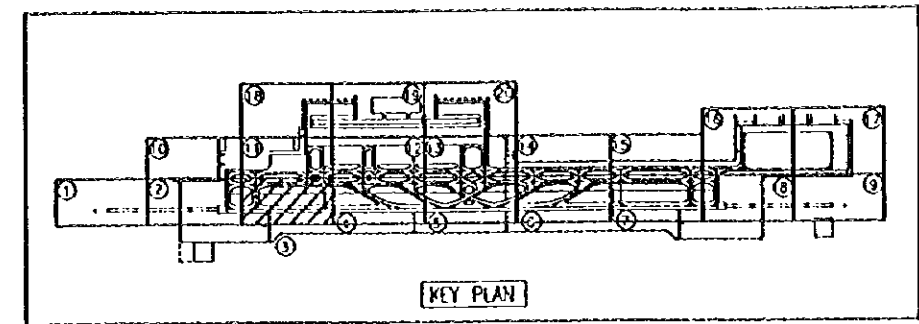


DETAILS OF 300m CROSS BAR

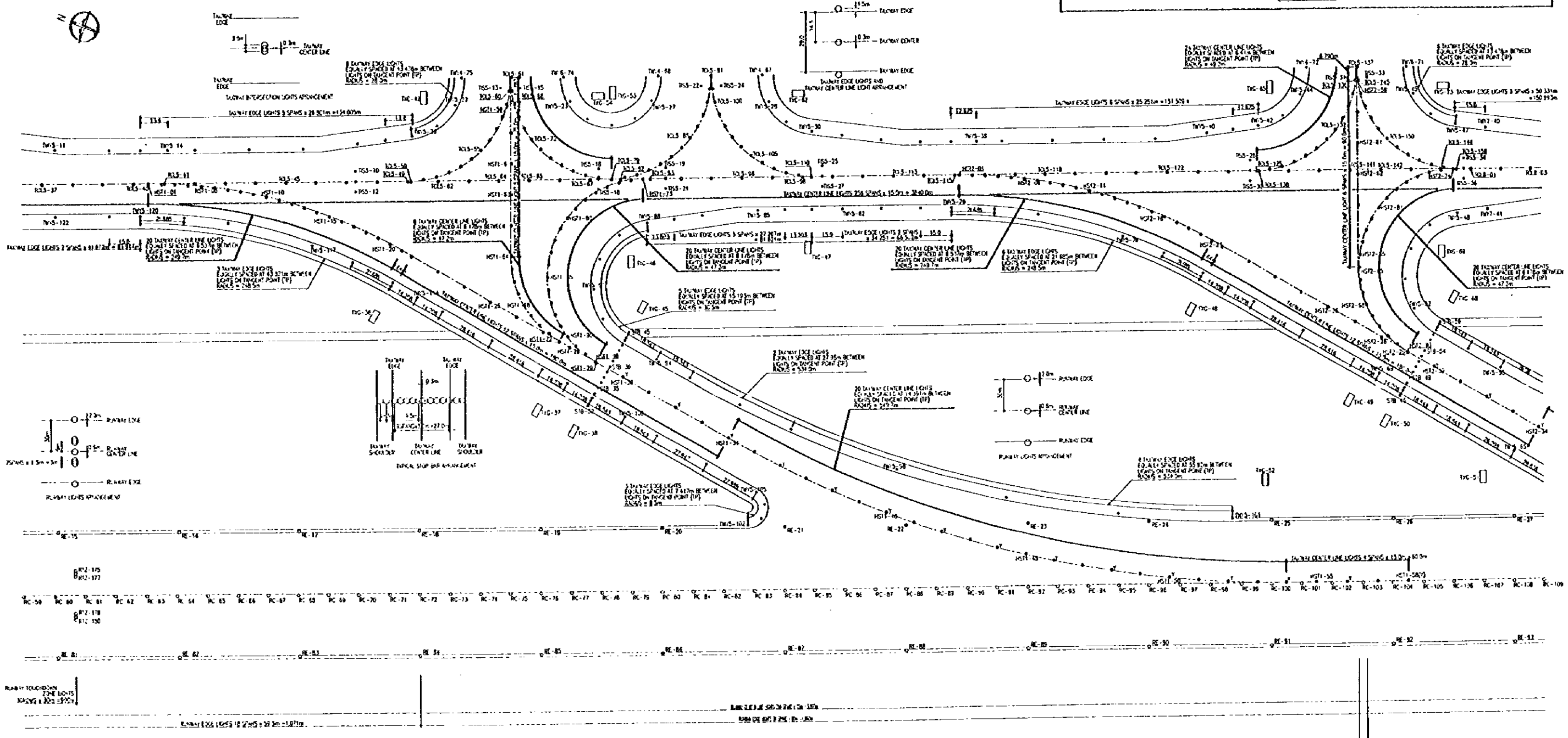
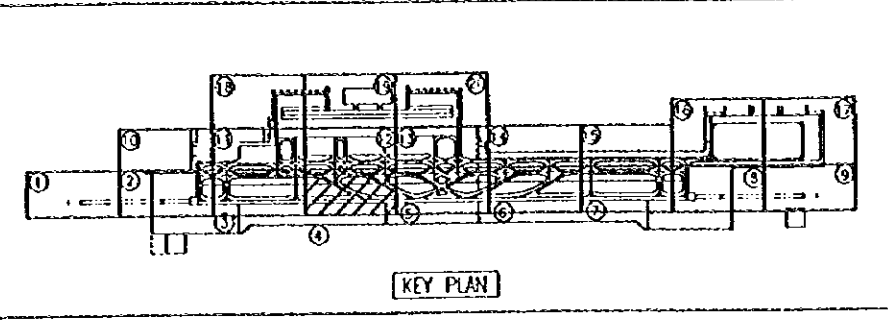
TYPICAL DETAILS OF STOP BAR ARRANGEMENT

DETAILS OF 150m CROSS BAR

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
TOTAL LAYOUT OF AIR FIELD LIGHTING SYSTEM(2/20)	
SCALE 1/1000	DWG2-L4
JAPAN INTERNATIONAL COOPERATION AGENCY	



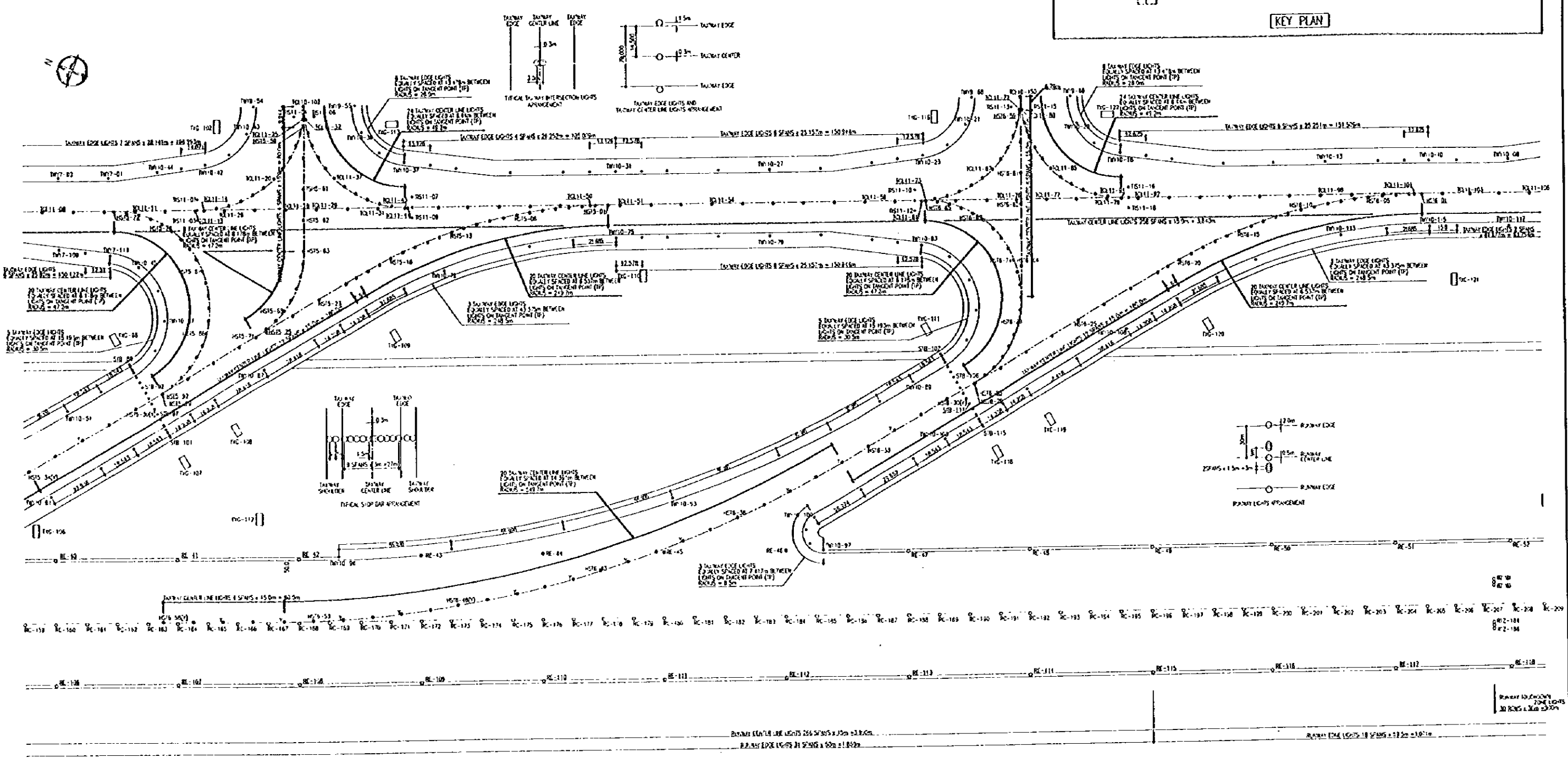
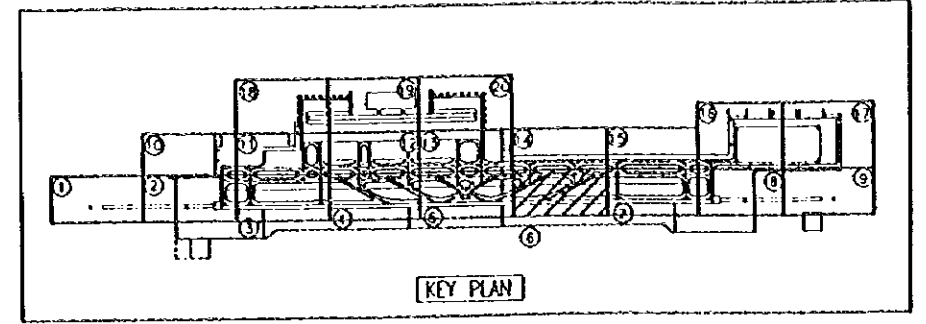
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
TOTAL LAYOUT OF AIR FIELD LIGHTING SYSTEM(3/20)	
SCALE 1/1000	DWG-15
JAPAN INTERNATIONAL COOPERATION AGENCY	



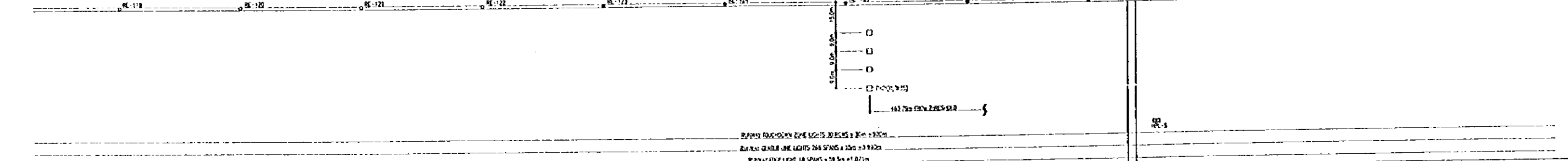
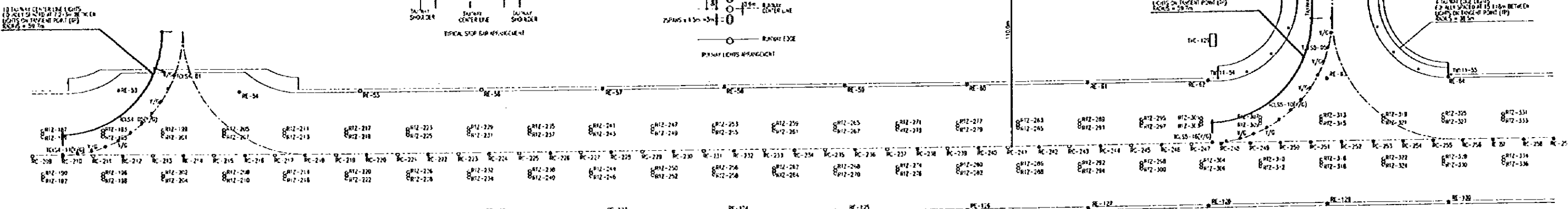
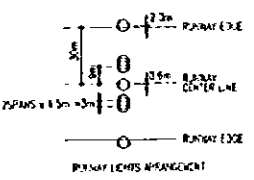
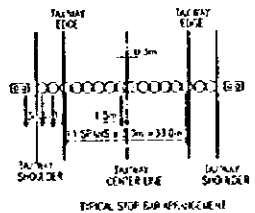
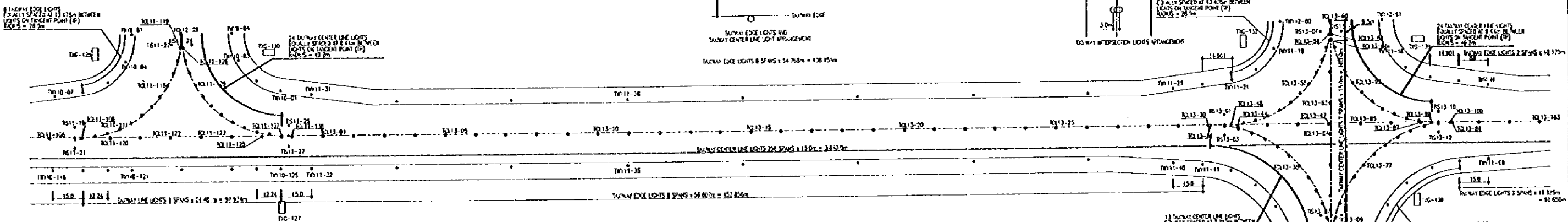
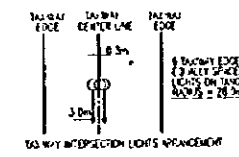
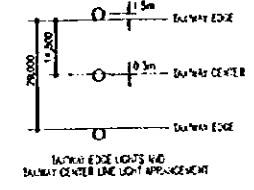
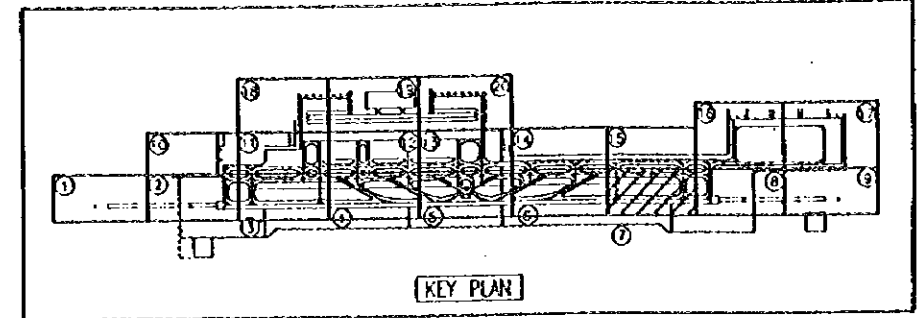
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
TOTAL LAYOUT OF AIR FIELD LIGHTING SYSTEM (4/20)	
SCALE 1/1000	ONS2-L6
JAPAN INTERNATIONAL COOPERATION AGENCY	



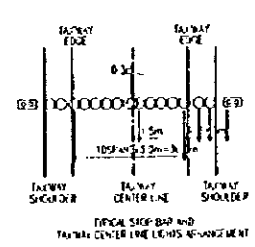
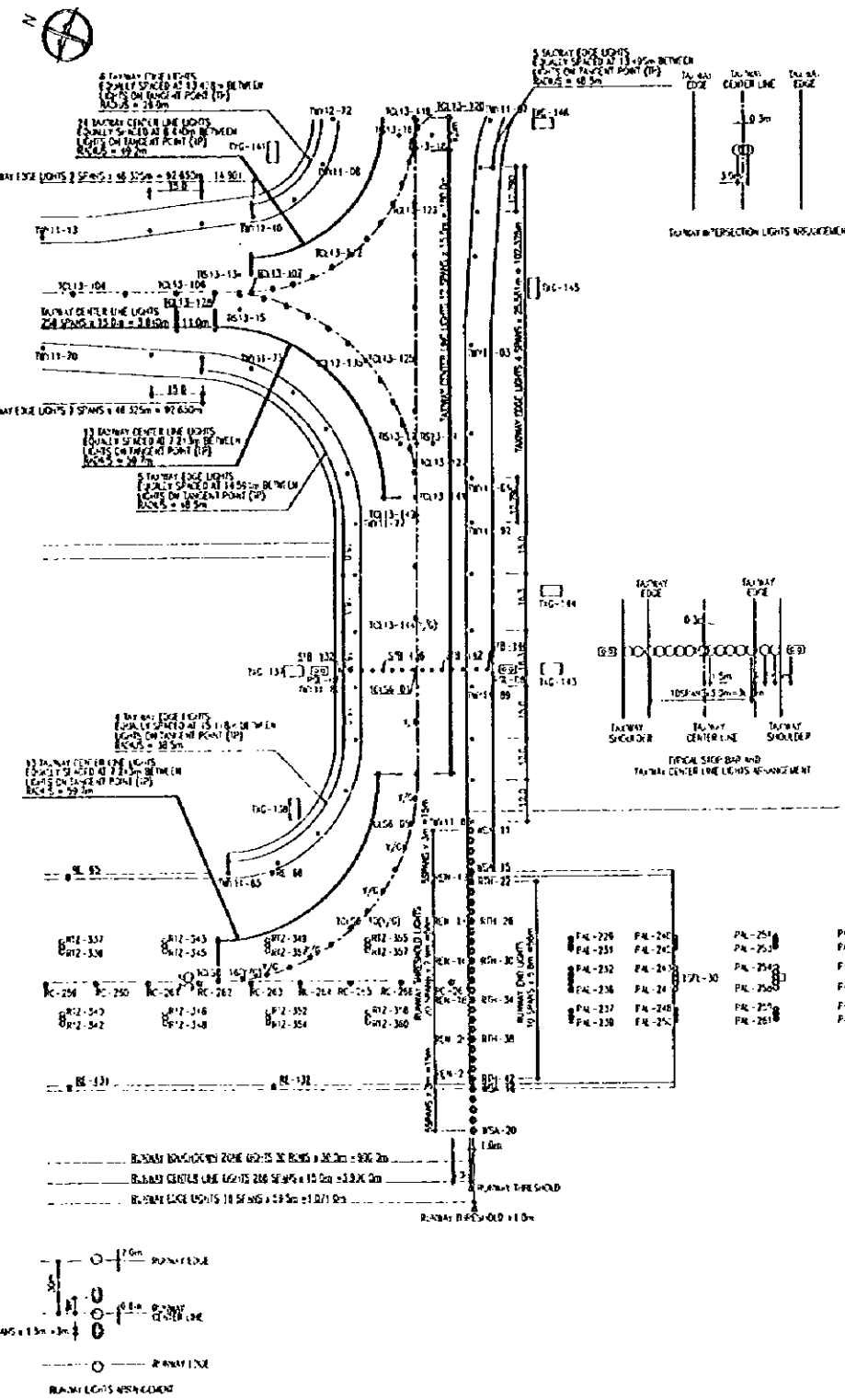
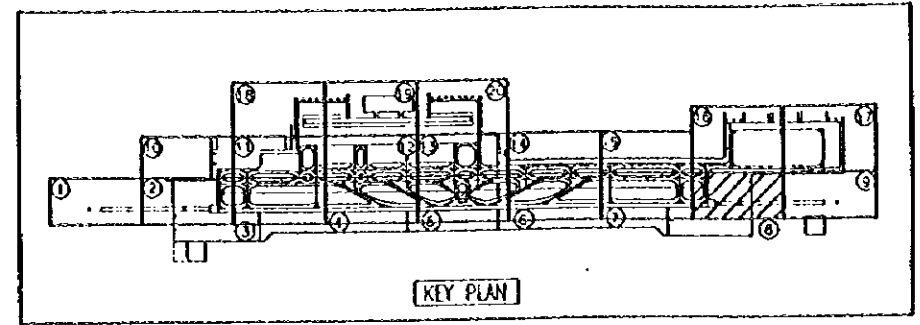




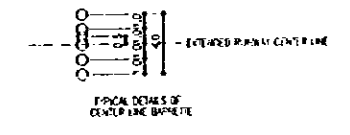
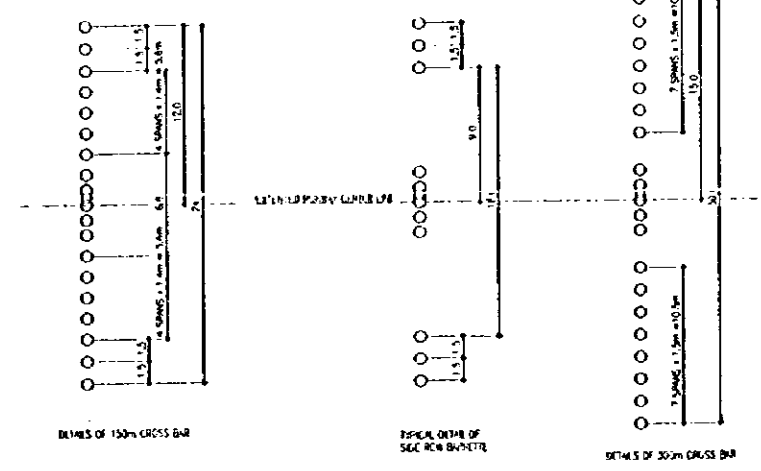
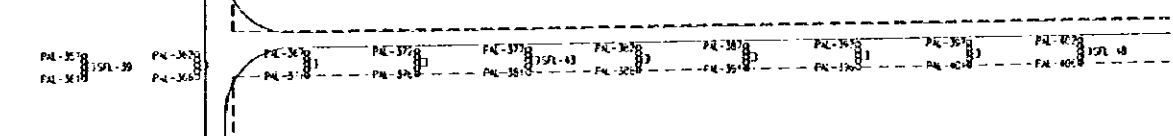
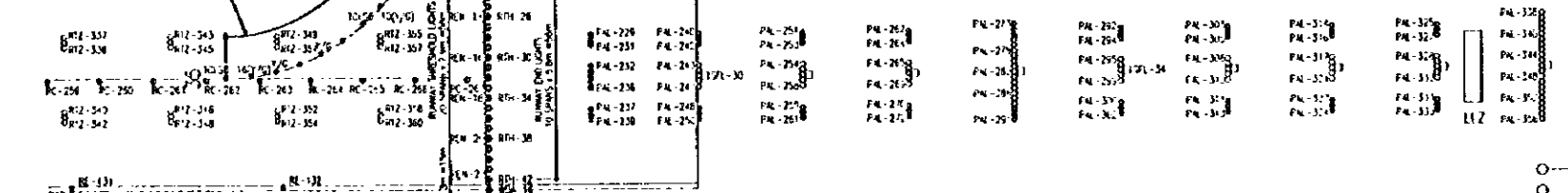
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
TOTAL LAYOUT OF AIR FIELD LIGHTING SYSTEM(6/20)	
SCALE 1/1000	DWG2-L8
JAPAN INTERNATIONAL COOPERATION AGENCY	



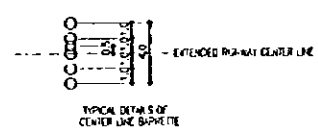
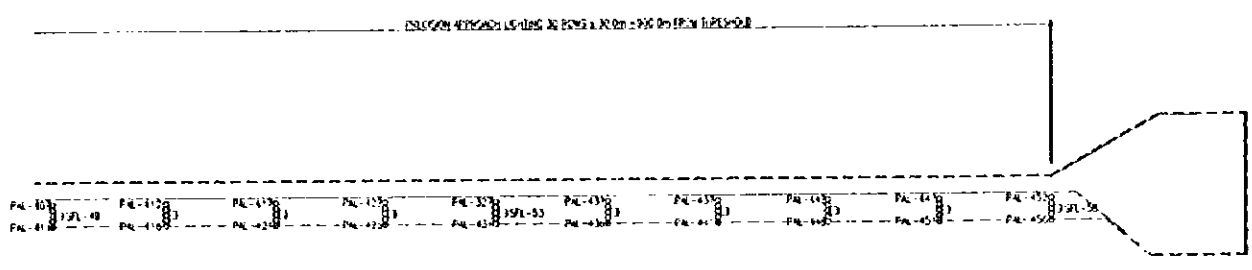
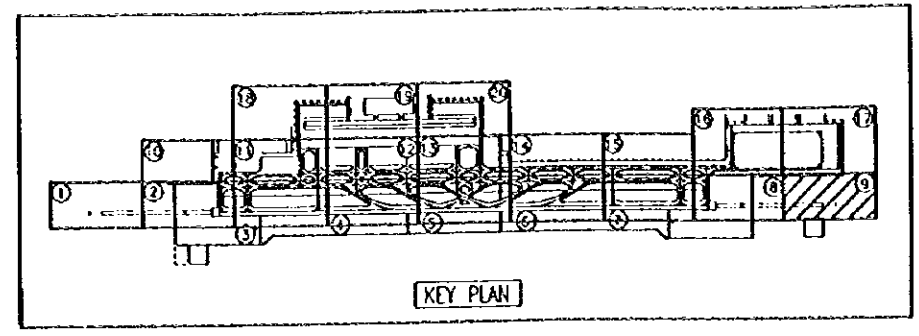
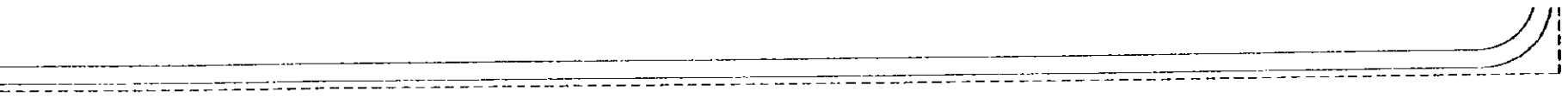
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
TOTAL LAYOUT OF AIR FIELD LIGHTING SYSTEM(7/20)	
SCALE 1/1000	DWG-19
JAPAN INTERNATIONAL COOPERATION AGENCY	



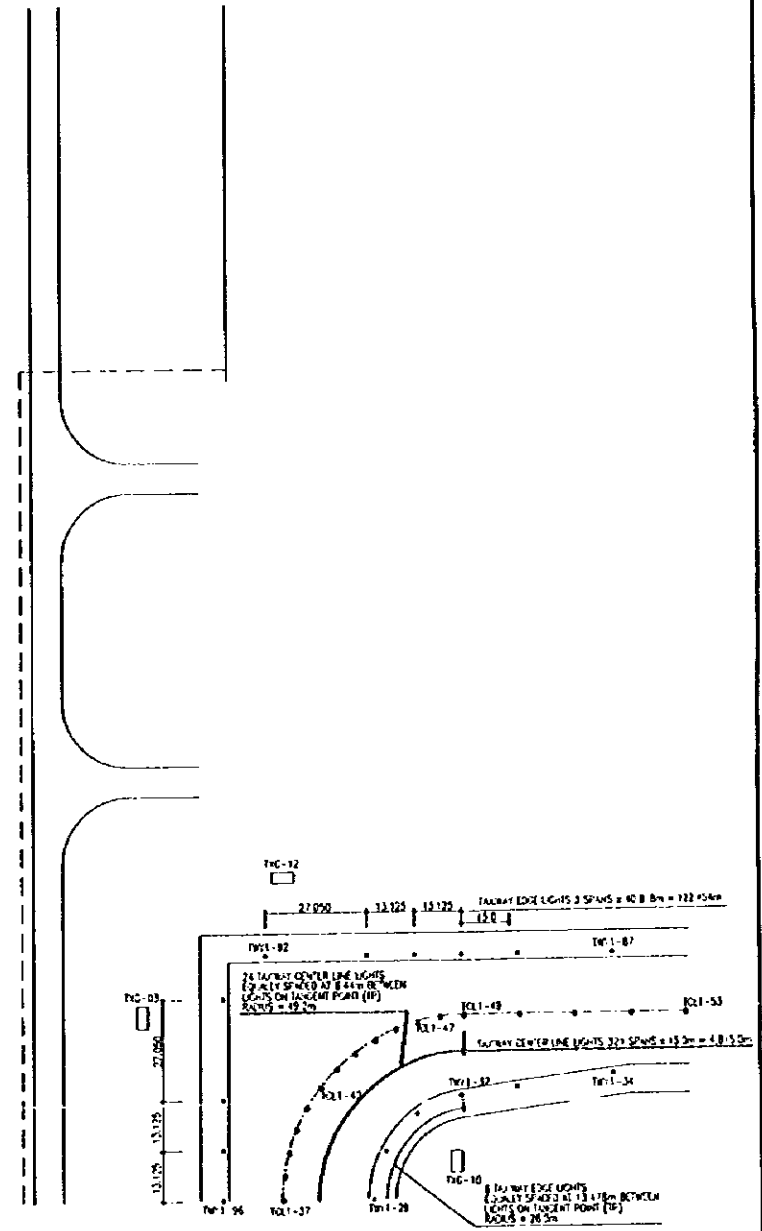
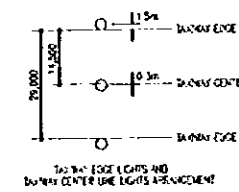
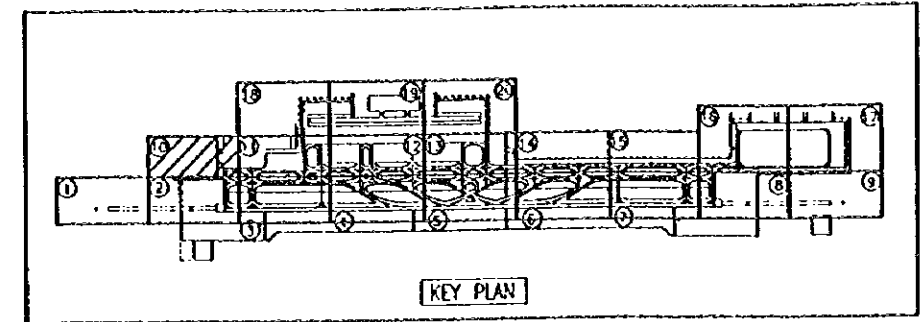
SEE PROJECT SCALE OF 1:500 FOR DETAILS



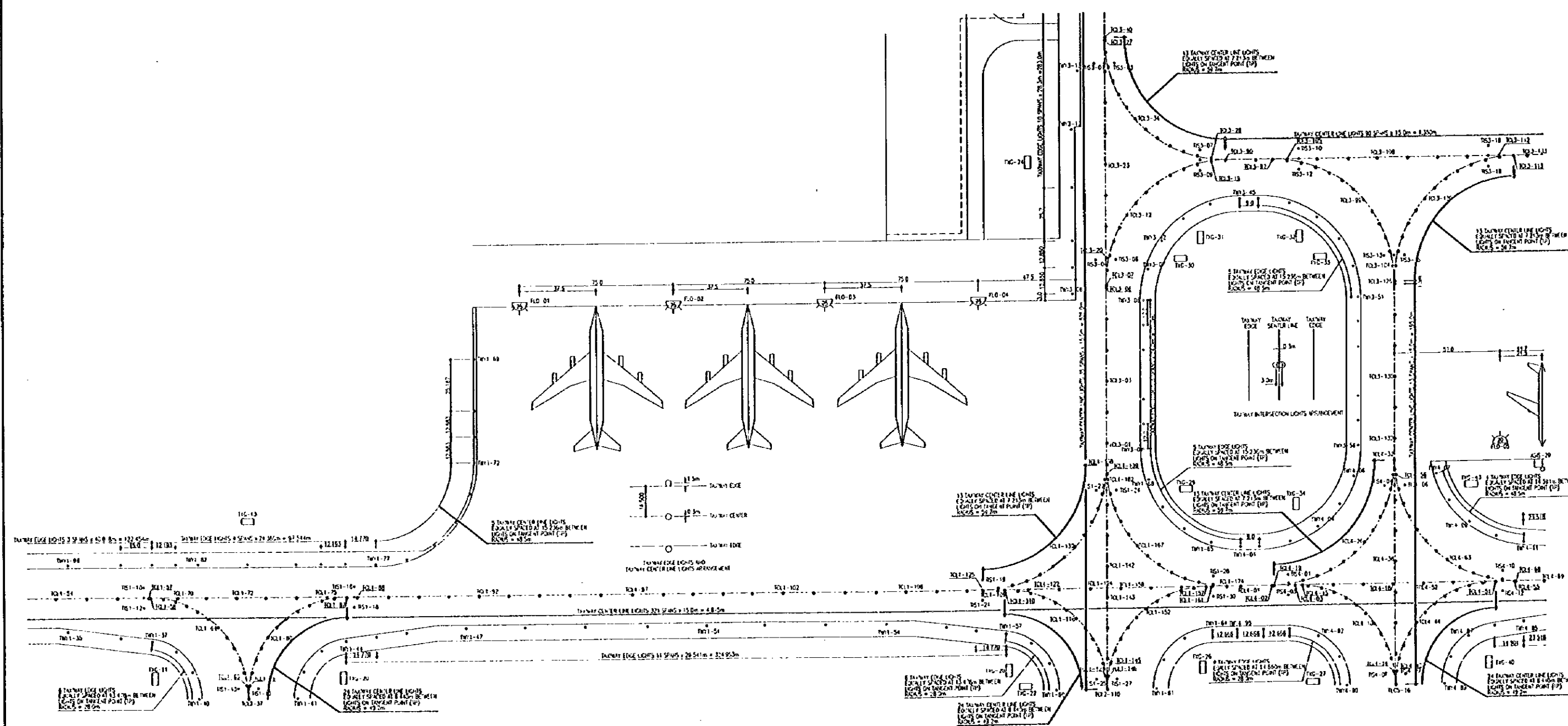
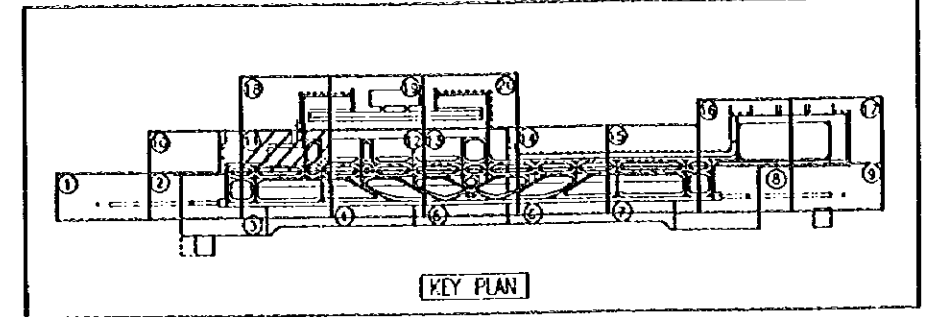
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
TOTAL LAYOUT OF AIR FIELD LIGHTING SYSTEM(8/20)	
SCALE 1/1000	DWG2-110
JAPAN INTERNATIONAL COOPERATION AGENCY	



PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
TOTAL LAYOUT OF AIR FIELD LIGHTING SYSTEM(9/20)	
SCALE 1/1000	DWG2-111
JAPAN INTERNATIONAL COOPERATION AGENCY	

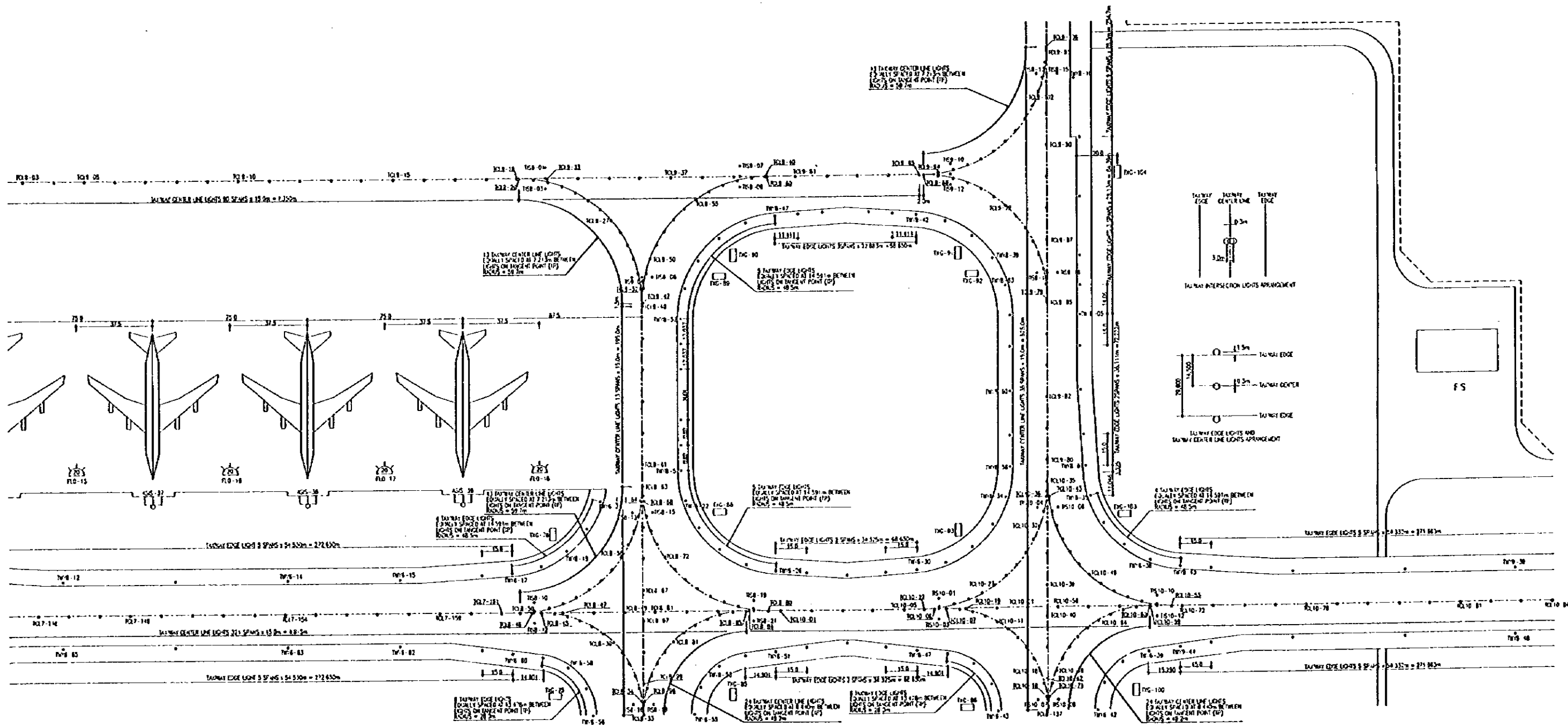
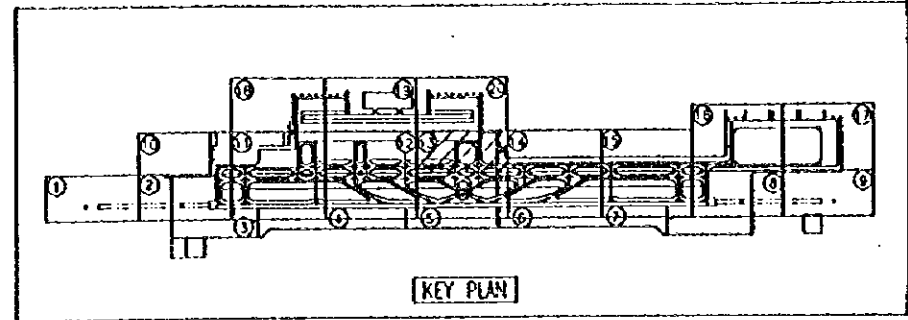


PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
TOTAL LAYOUT OF AIR FIELD LIGHTING SYSTEM(10/20)	
SCALE 1/1000	DWG2-L12
JAPAN INTERNATIONAL COOPERATION AGENCY	



PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI FUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
TOTAL LAYOUT OF AIR FIELD LIGHTING SYSTEM(11/20)	
SCALE 1/1000	DWG-L13
JAPAN INTERNATIONAL COOPERATION AGENCY	

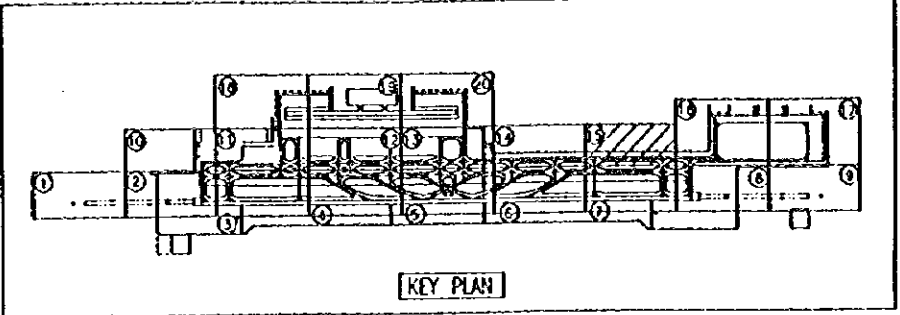




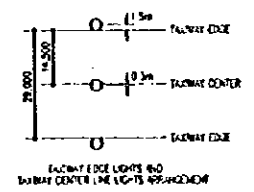
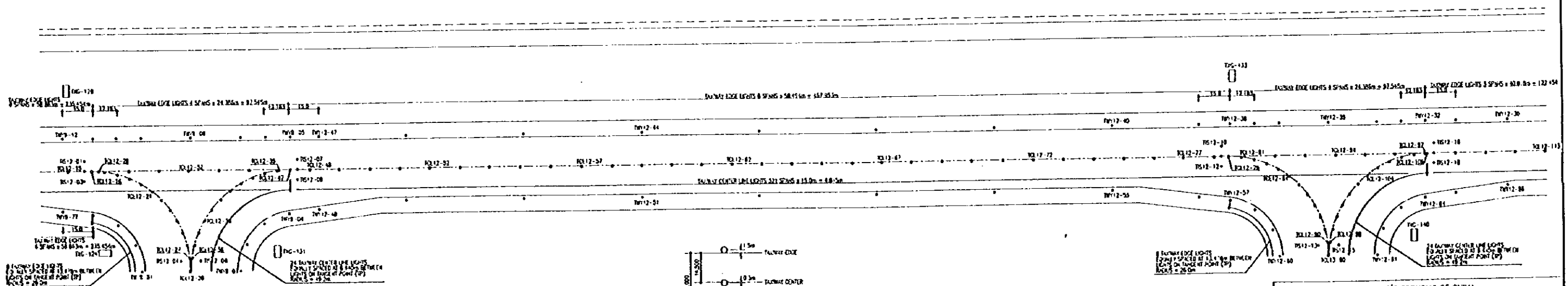
PEOPLE'S REPUBLIC OF CHINA  
 SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997  
 TOTAL LAYOUT OF AIR FIELD LIGHTING SYSTEM(13/20)  
 SCALE 1/1000 | DWG-L15  
 JAPAN INTERNATIONAL COOPERATION AGENCY







KEY PLAN

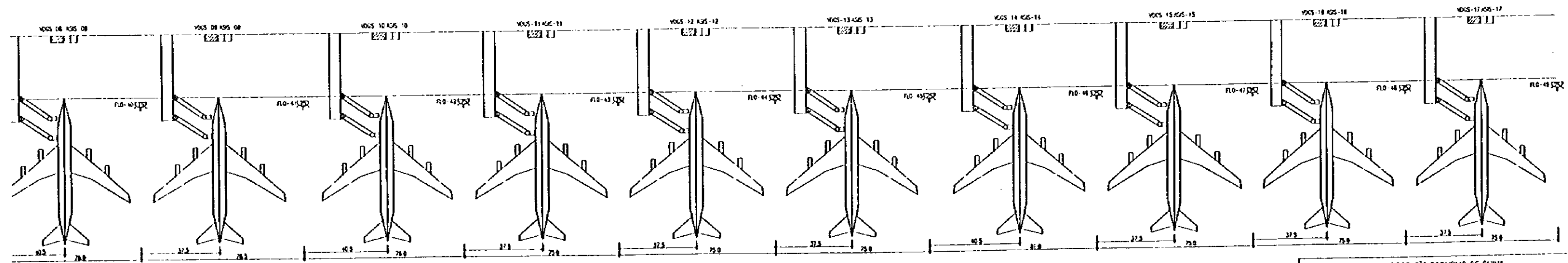
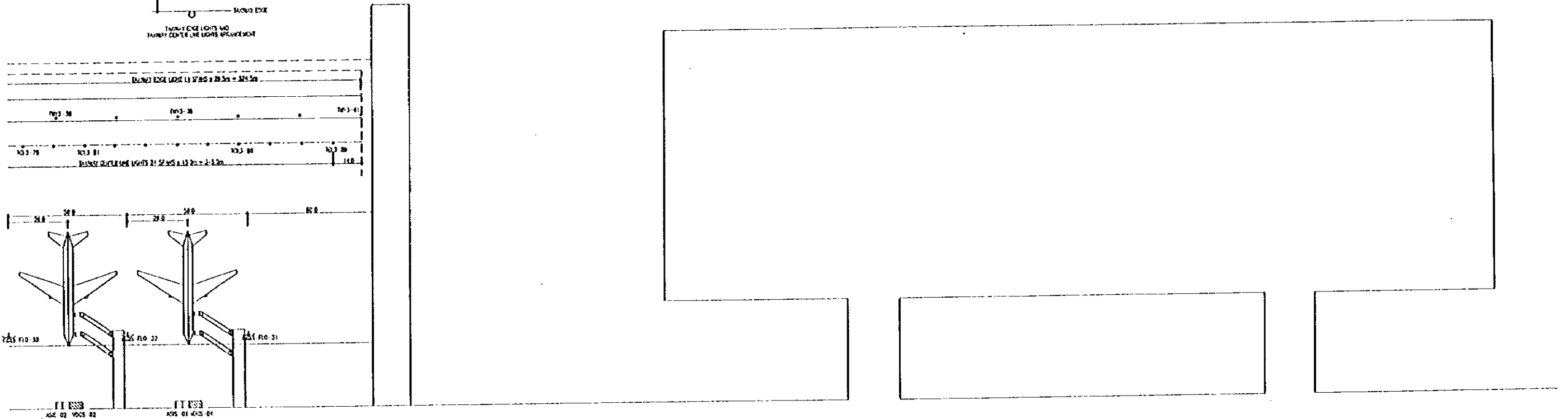
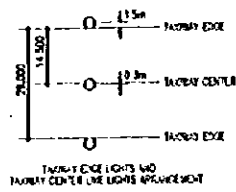
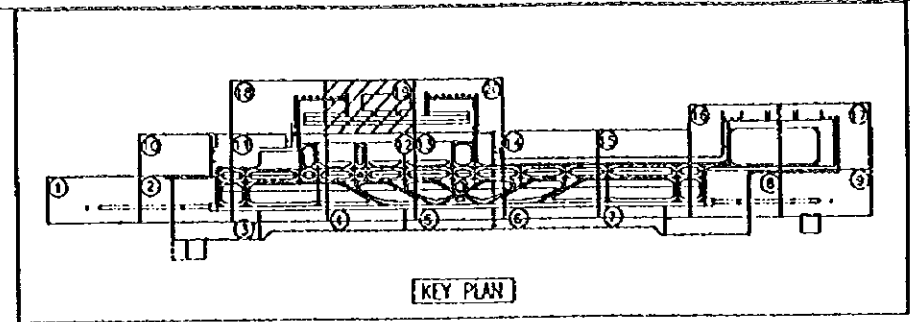


PEOPLE'S REPUBLIC OF CHINA  
 SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997  
 TOTAL LAYOUT OF AIR FIELD LIGHTING SYSTEM(15/20)  
 SCALE 1/1000 | DWG2-117  
 JAPAN INTERNATIONAL COOPERATION AGENCY



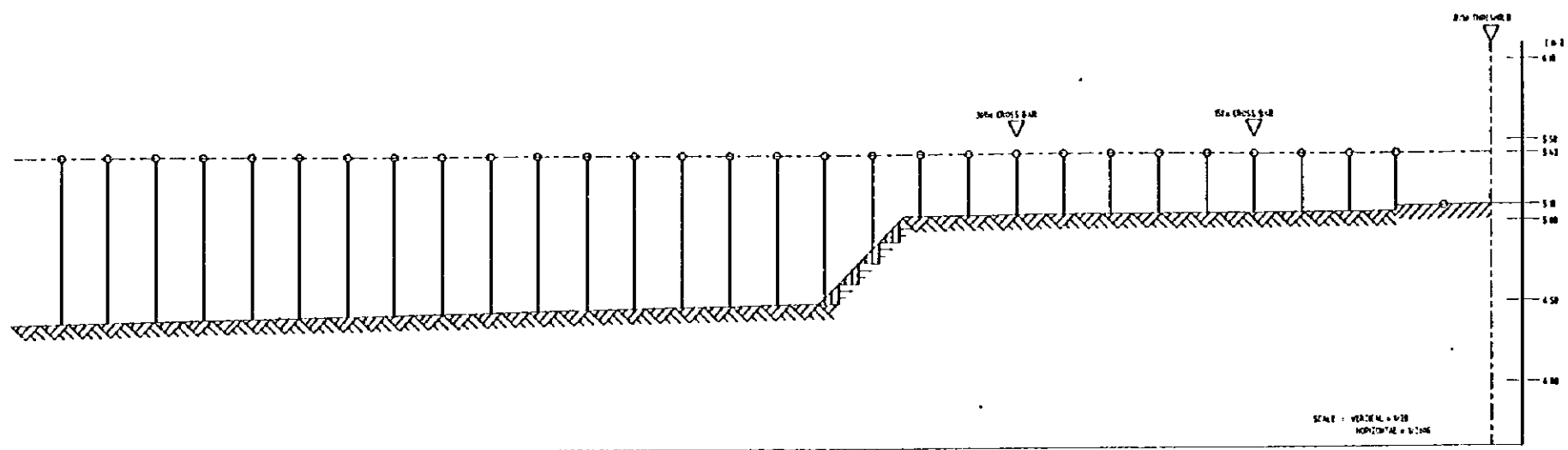






PEOPLE'S REPUBLIC OF CHINA  
 SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997  
 TOTAL LAYOUT OF AIR FIELD LIGHTING SYSTEM (19/20)  
 SCALE 1/1000 | DWG2-121  
 JAPAN INTERNATIONAL COOPERATION AGENCY

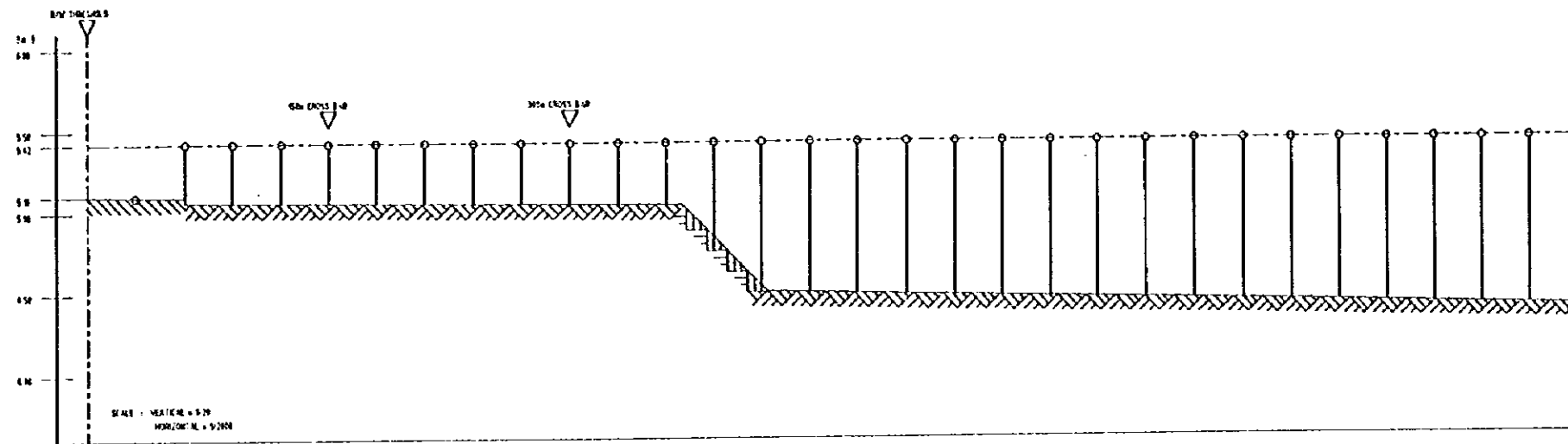




SECTION PLAN OF R/W 17 PRECISION APPROACH LIGHTING SYSTEM																									GRADE	
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3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	5.50	
5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.50	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
																										0

SECTION PLAN OF R/W 17 PRECISION APPROACH LIGHTING SYSTEM

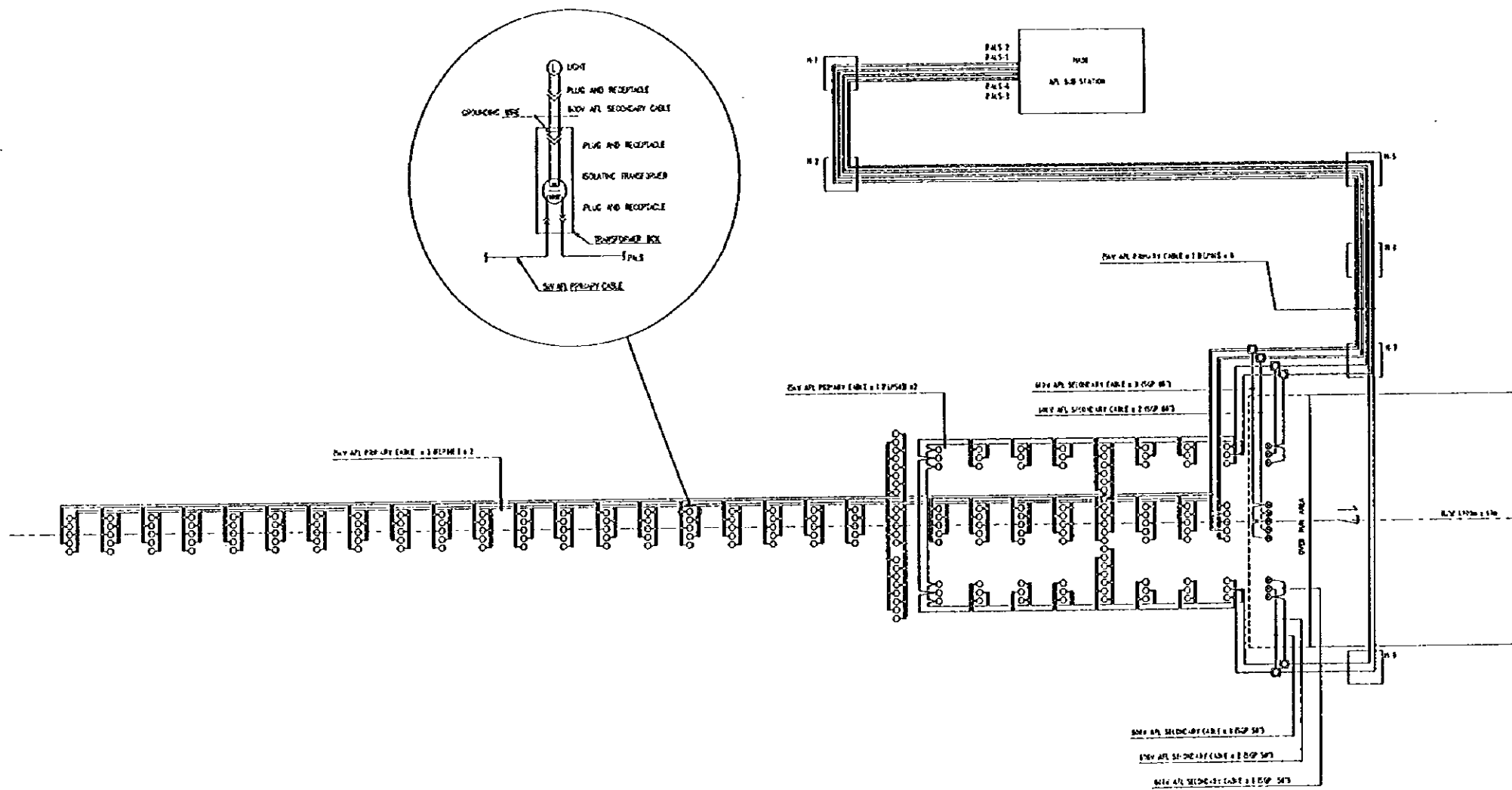




GRADE																													
LIGHT HEIGHT (FROM THE GROUND SURFACE) (m)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
LIGHT HEIGHT (ACCORDING TO THE GROUND LEVEL) (m)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
GROUND HEIGHT (m)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
ACCUMULATED DISTANCE (m)	0.00	0.40	0.80	1.20	1.60	2.00	2.40	2.80	3.20	3.60	4.00	4.40	4.80	5.20	5.60	6.00	6.40	6.80	7.20	7.60	8.00	8.40	8.80	9.20	9.60	10.00	10.40	10.80	11.20
PALS CENTER LINE BARRETTE BEAM ANGLE (DEGREE)	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
PALS SIDE ROW BARRETTE BEAM ANGLE (DEGREE)	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	

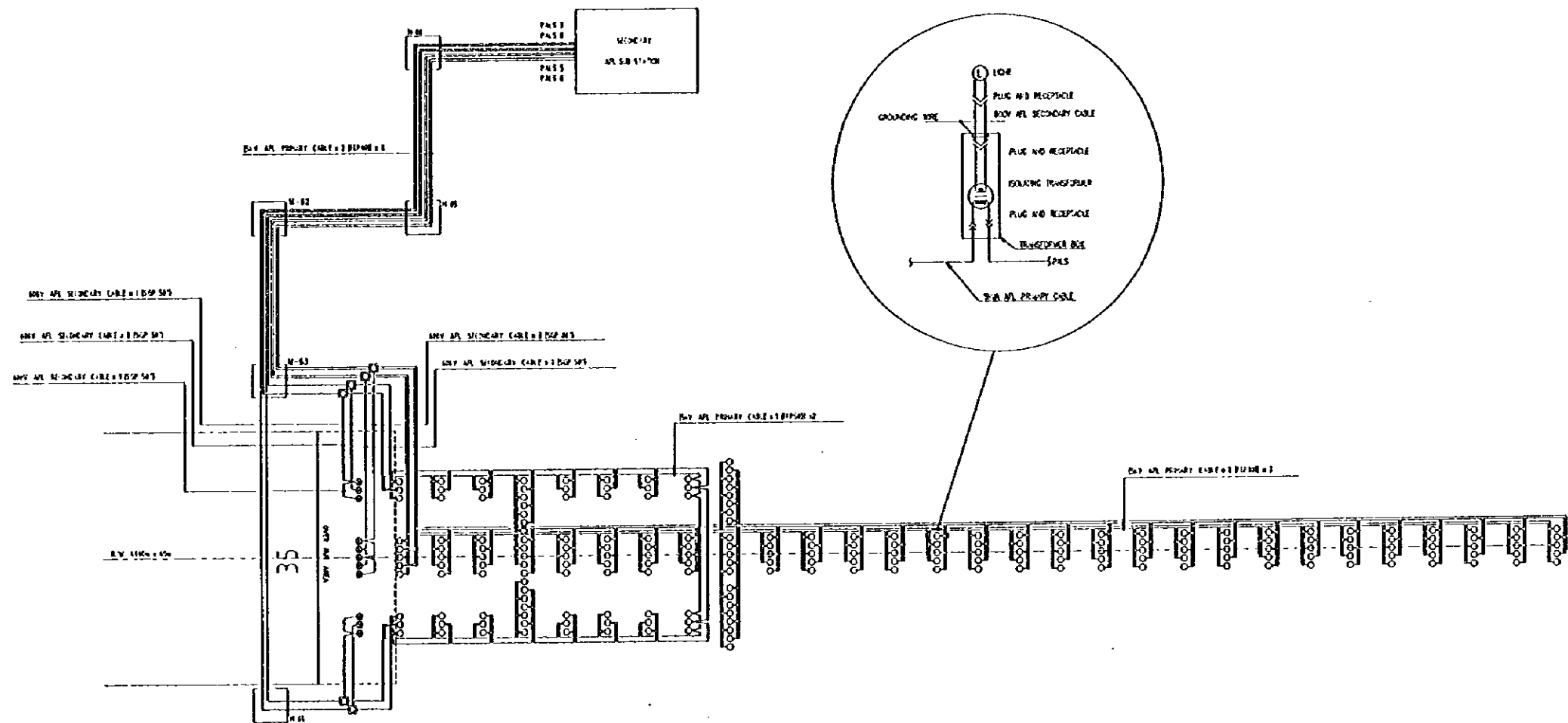
SECTION PLAN OF R/W 35 PRECISION APPROACH LIGHTING SYSTEM

PEOPLE'S REPUBLIC OF CHINA  
 SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997  
 SECTION PLAN OF PALS(R/W 35)  
 SCALE 1/20,1/2000 | DWG2-124  
 JAPAN INTERNATIONAL COOPERATION AGENCY



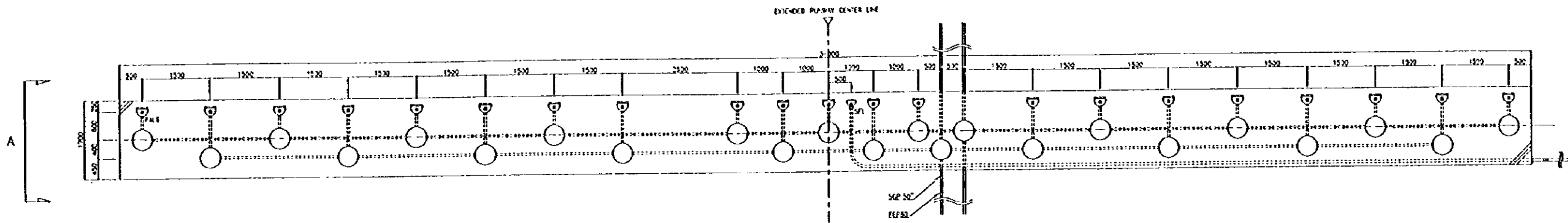
WIRING DIAGRAM OF R/W 17 PRECISION APPROACH LIGHTING SYSTEM

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
WIRING DIAGRAM OF PALS(R/W 17)	
SCALE NON SCALE	DWG-125
JAPAN INTERNATIONAL COOPERATION AGENCY	

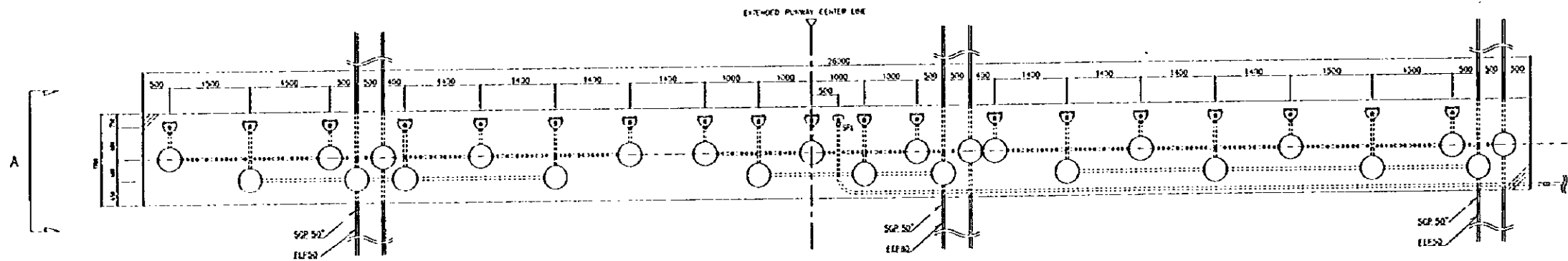


WIRING DIAGRAM OF R/W 35 PRECISION APPROACH LIGHTING SYSTEM

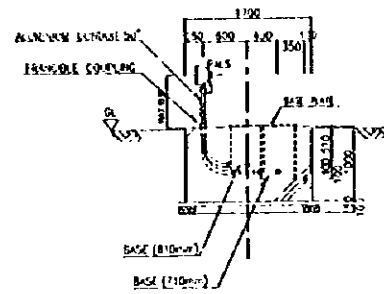
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
WIRING DIAGRAM OF PALS(R/W 35)	
SCALE NON SCALE	DWG2-126
JAPAN INTERNATIONAL COOPERATION AGENCY	



INSTALLATION PLAN OF 300m CROSS BAR

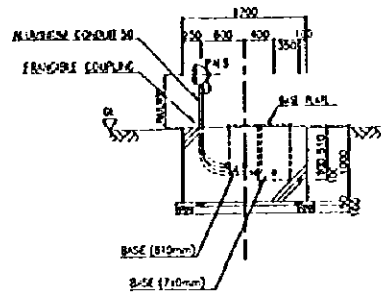


INSTALLATION PLAN OF 150m CROSS BAR

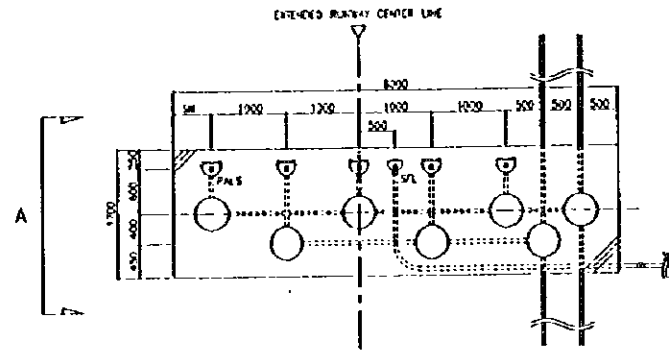


SECTION-A

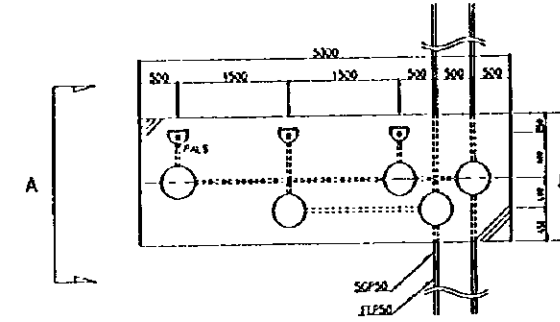
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
TYPICAL INSTALLATION PLAN OF PALS(1/2)	
SHEET 1/50	CHG2-127
JAPAN INTERNATIONAL COOPERATION AGENCY	



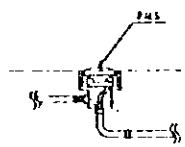
SECTION-A



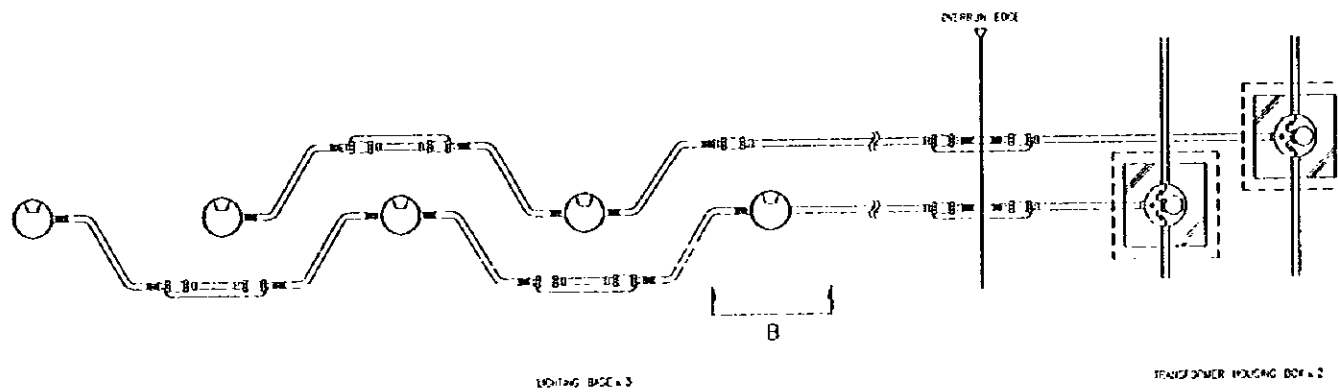
INSTALLATION PLAN OF CENTER LINE BARRETTE SCALE 1/50



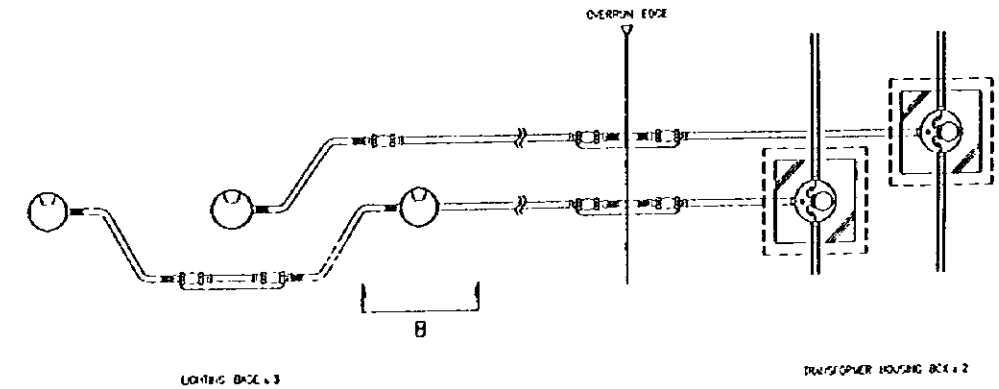
INSTALLATION PLAN OF SIDE ROW BARRETTE SCALE 1/50



SECTION-B

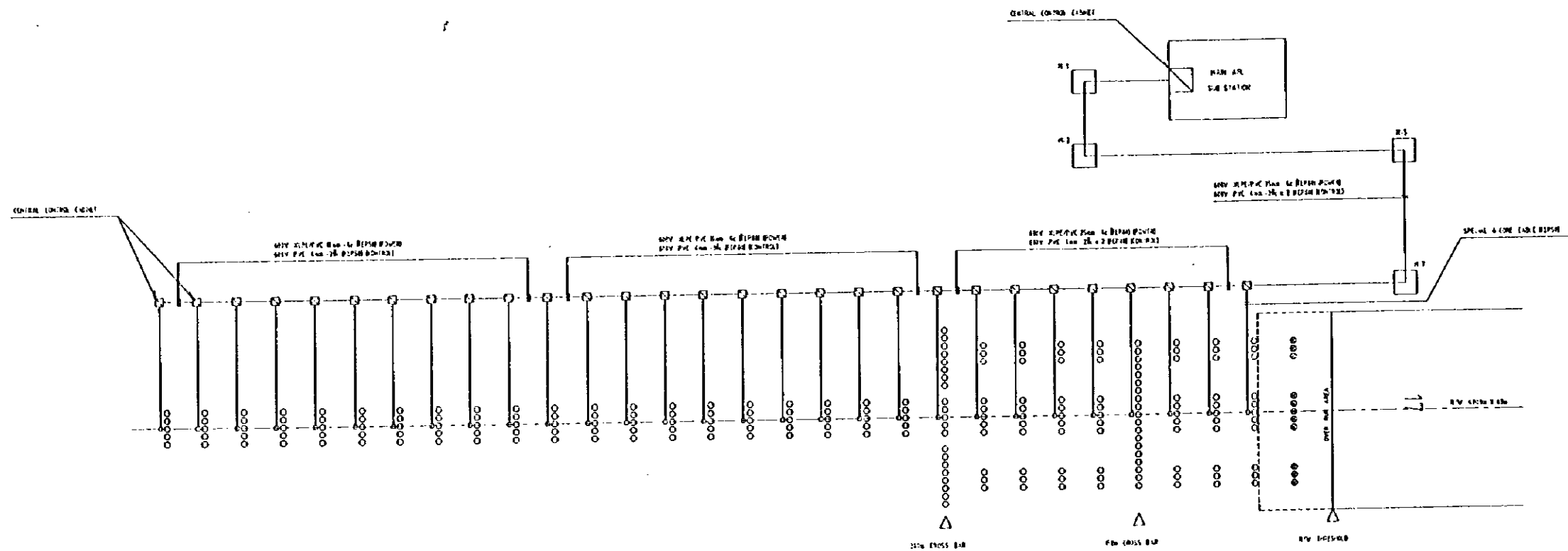


INSTALLATION PLAN OF SURFACE-TYPE CENTER LINE BARRETTE SCALE 1/50



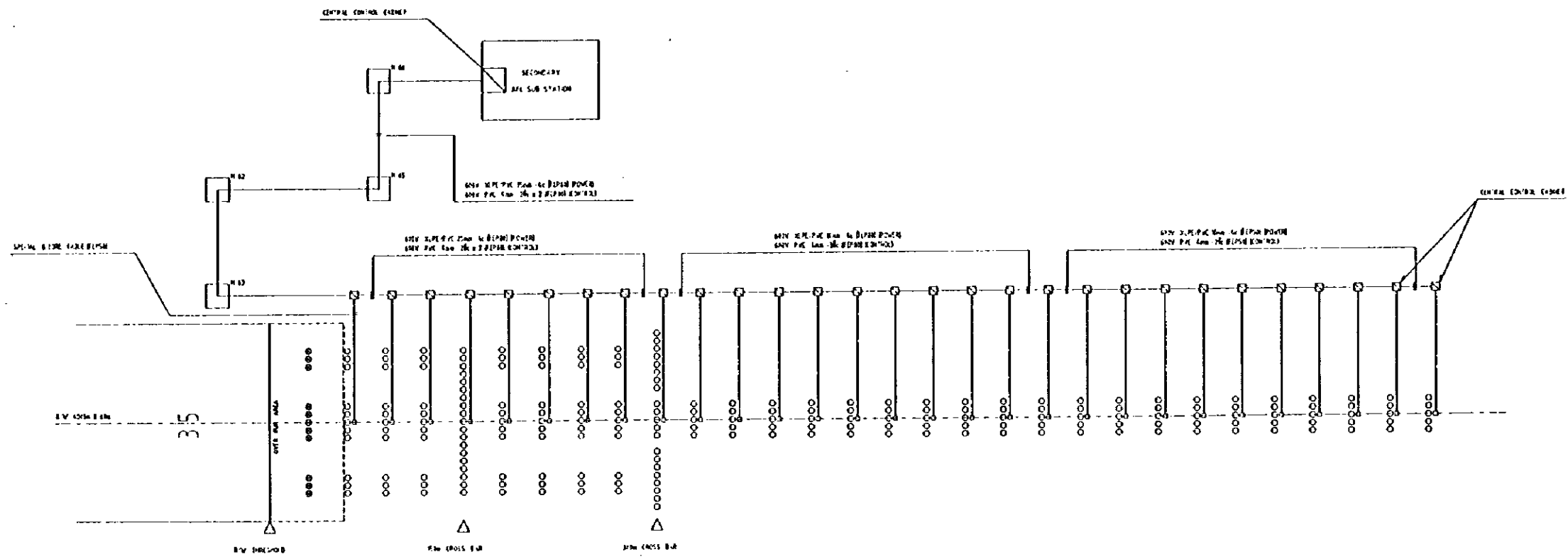
INSTALLATION PLAN OF SURFACE-TYPE SIDE ROW BARRETTE SCALE 1/50

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
TYPICAL INSTALLATION PLAN OF PALS(2/2)	
SCALE 1/30, 1/50	DWG 128
JAPAN INTERNATIONAL COOPERATION AGENCY	



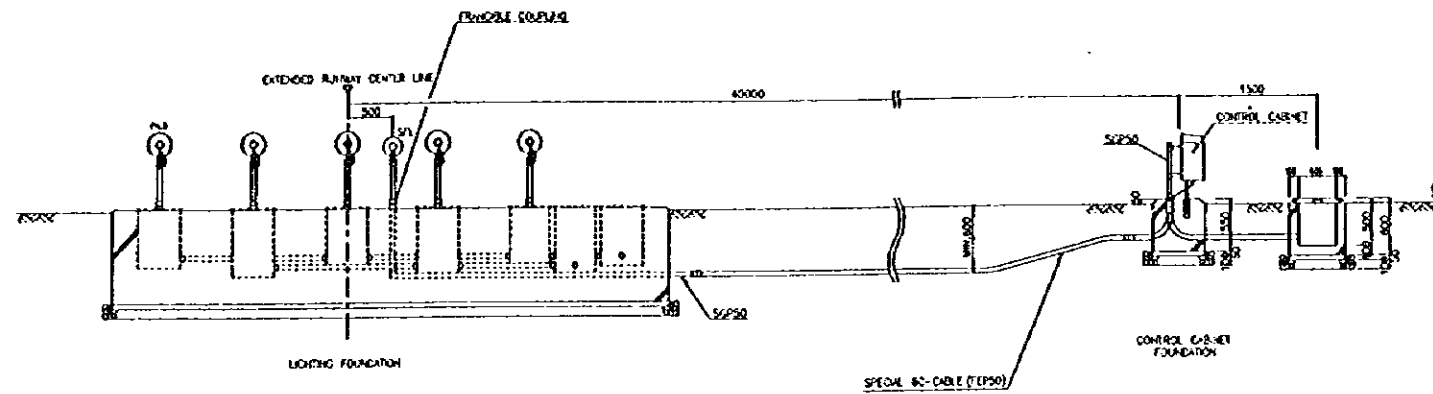
WIRING DIAGRAM OF R/W 17 SEQUENCE FLASHING LIGHTS

PEOPLE'S REPUBLIC OF CHINA	
SUNSHINE PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
WIRING DIAGRAM OF SFL(R/W 17)	
SCALE: NON SCALE	DWG-129
JAPAN INTERNATIONAL COOPERATION AGENCY	

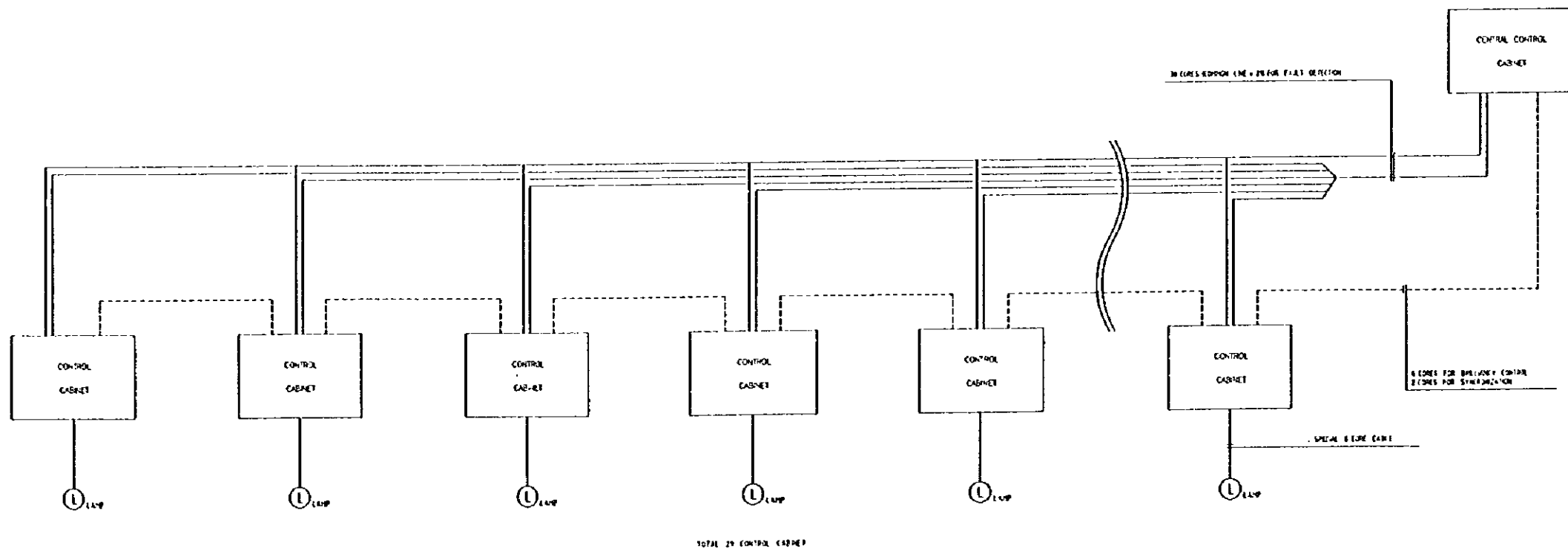


WIRING DIAGRAM OF R/W 35 SEQUENCE FLASHING LIGHTS

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
WIRING DIAGRAM OF SFL(R/W 35)	
SCALE: NON SCALE	DWG2-130
JAPAN INTERNATIONAL COOPERATION AGENCY	



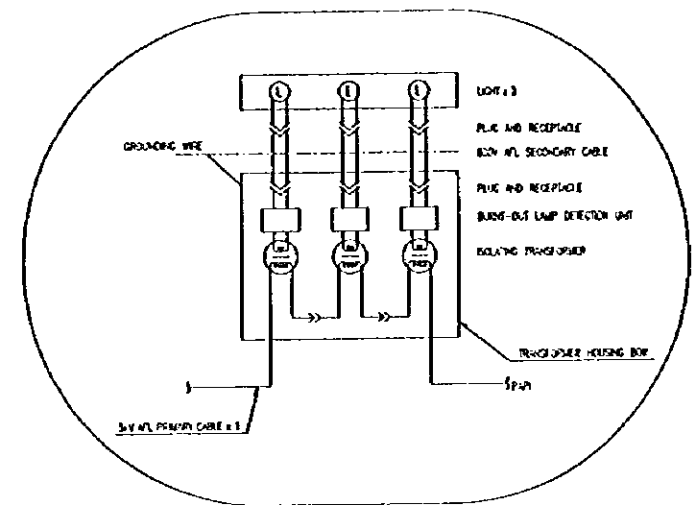
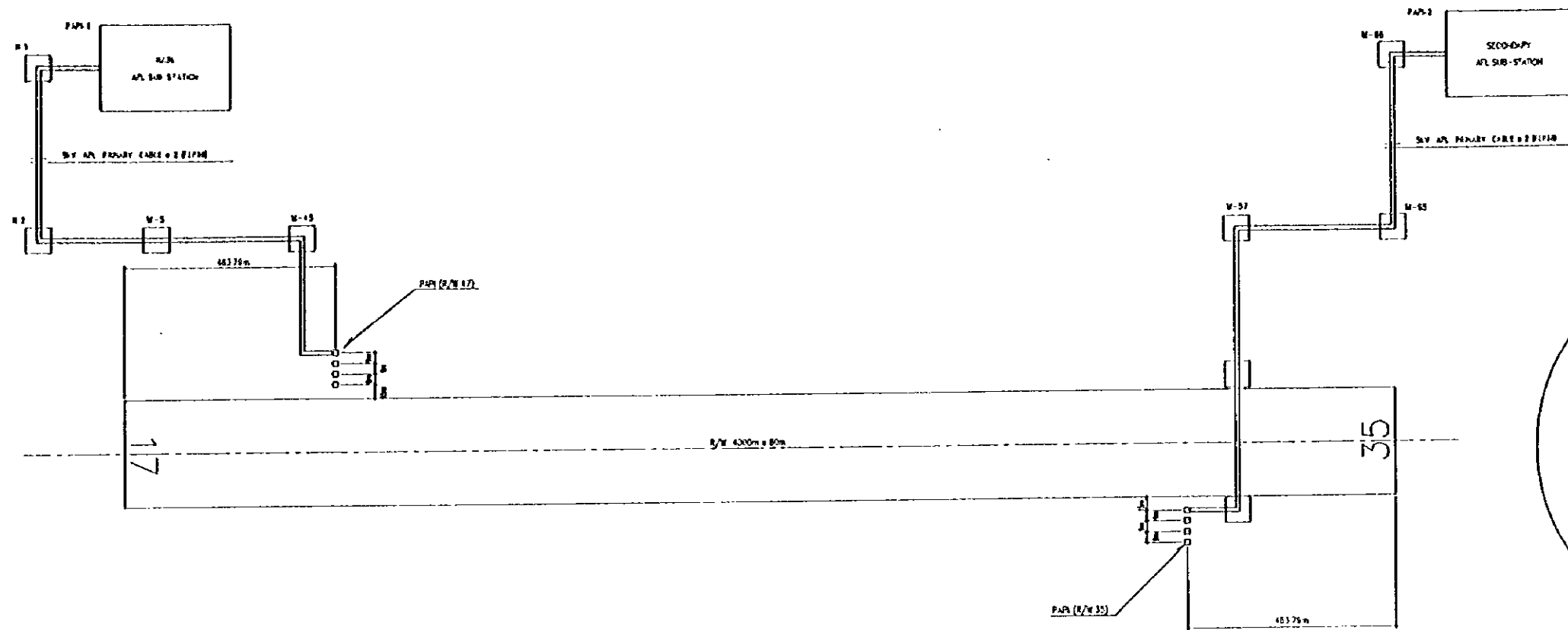
TYPICAL INSTALLATION PLAN OF SEQUENCE FLASHING LIGHTS SCALE 1/40



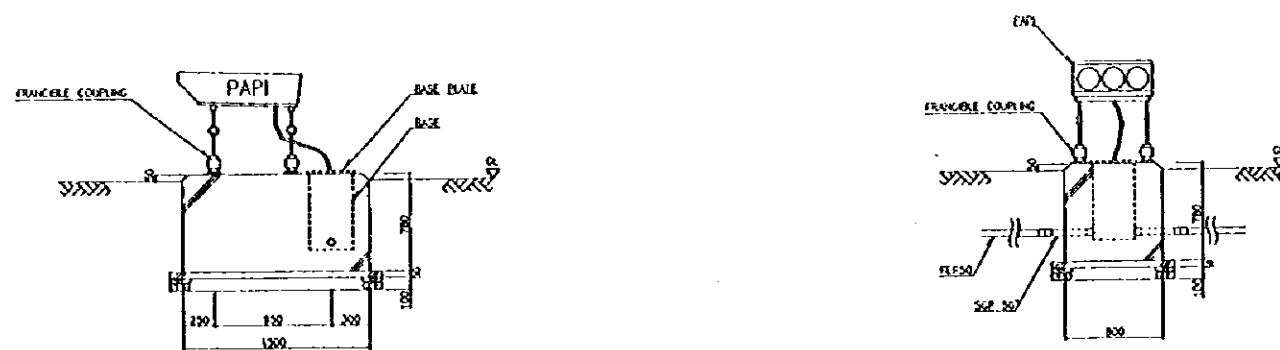
CONNECTION DIAGRAM OF SFL

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
TYPICAL INSTALLATION PLAN AND CONNECTION DIAGRAM OF SFL	
SCALE 1/40	DWG2-131
JAPAN INTERNATIONAL COOPERATION AGENCY	



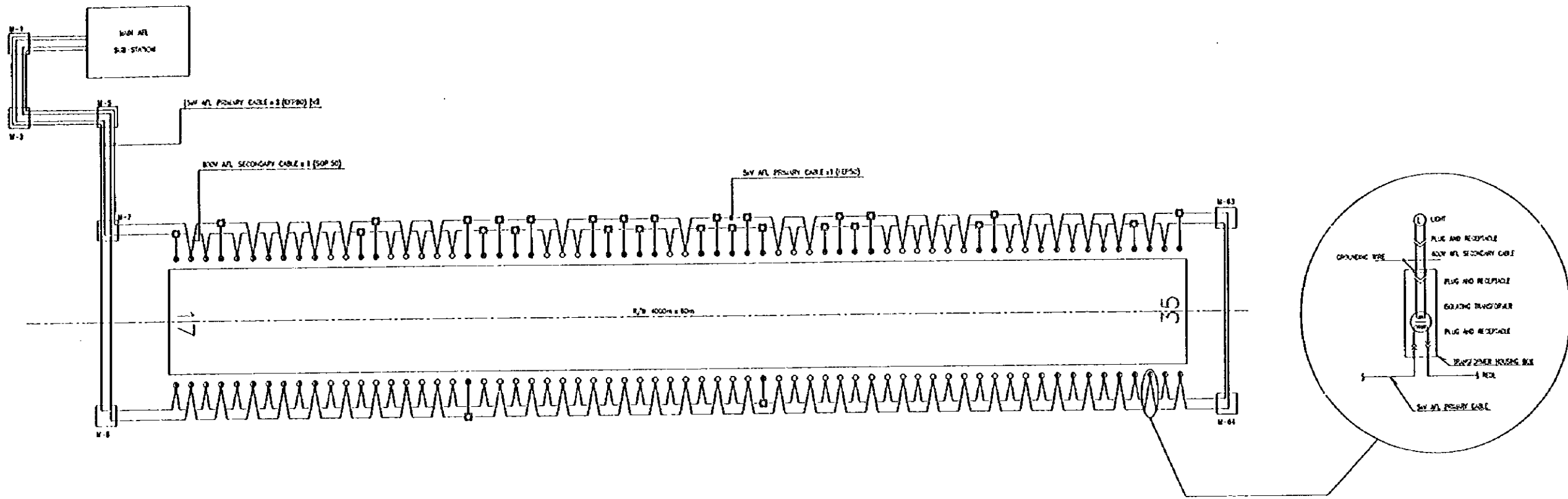


WIRING DIAGRAM OF PRECISION APPROACH PATH INDICATOR

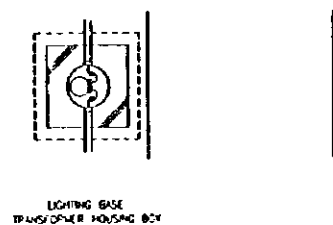
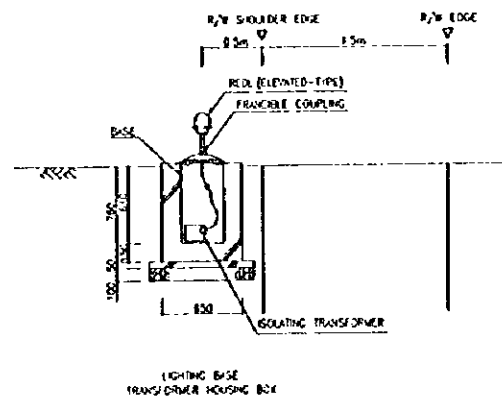


TYPICAL INSTALLATION PLAN OF PRECISION APPROACH PATH INDICATOR SCALE 1/30

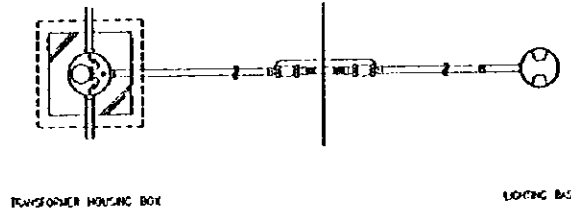
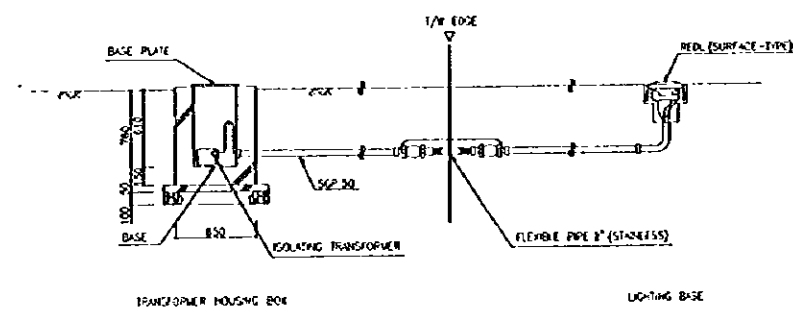
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
WIRING DIAGRAM AND TYPICAL INSTALLATION PLAN OF PAPI	
SCALE 1/30	DWG2-132
JAPAN INTERNATIONAL COOPERATION AGENCY	



WIRING DIAGRAM OF RUNWAY EDGE LIGHTS

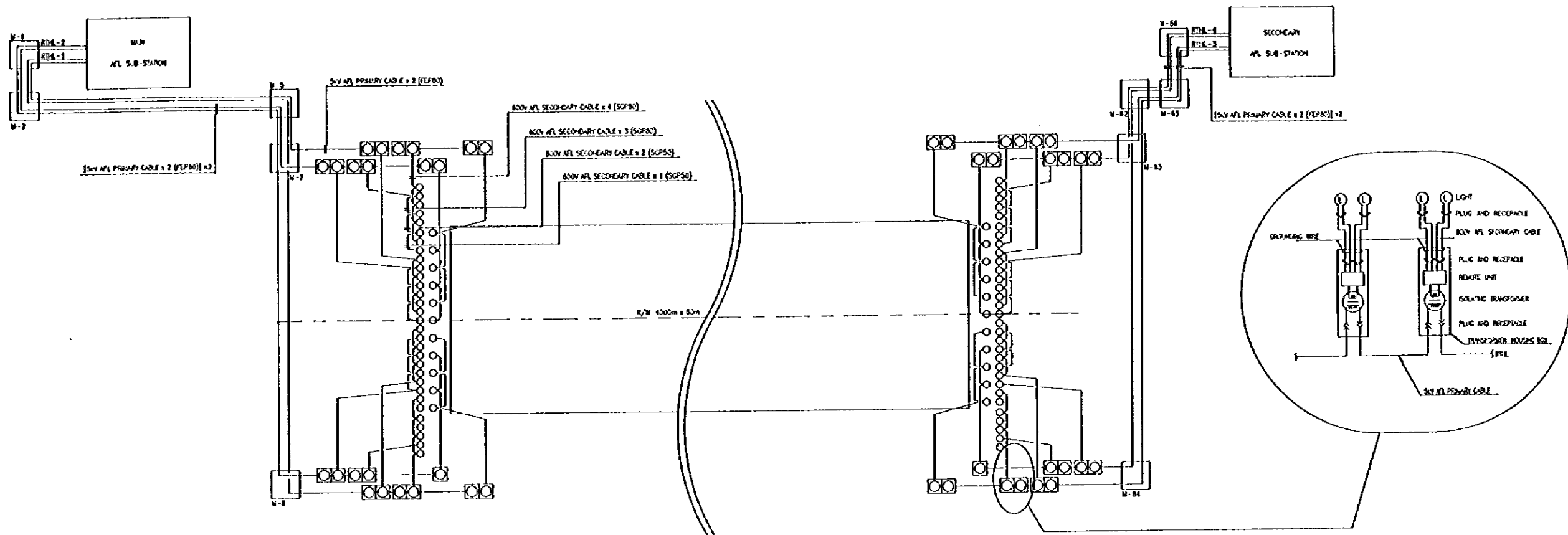


TYPICAL INSTALLATION PLAN OF ELEVATED-TYPE RUNWAY EDGE LIGHTS SCALE 1/30

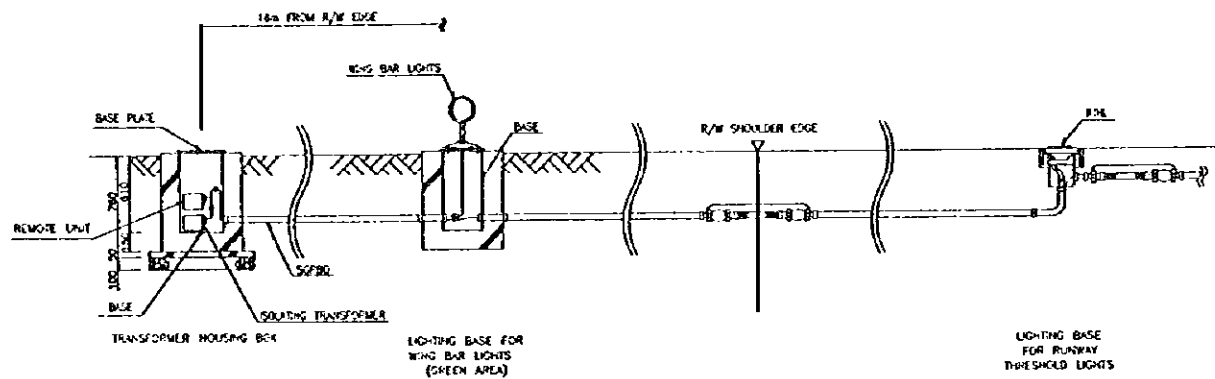


TYPICAL INSTALLATION PLAN OF SURFACE-TYPE RUNWAY EDGE LIGHTS SCALE 1/30

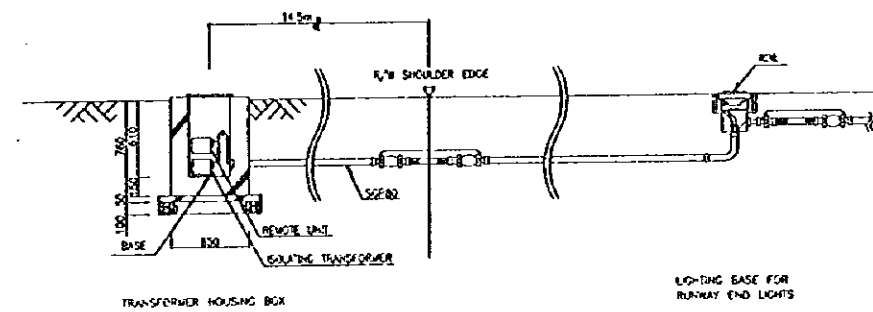
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI FUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
WIRING DIAGRAM AND TYPICAL INSTALLATION PLAN OF REDL	
SCALE 1/30	DWG2-L33
JAPAN INTERNATIONAL COOPERATION AGENCY	



WIRING DIAGRAM OF RUNWAY THRESHOLD LIGHTS AND RUNWAY END LIGHTS

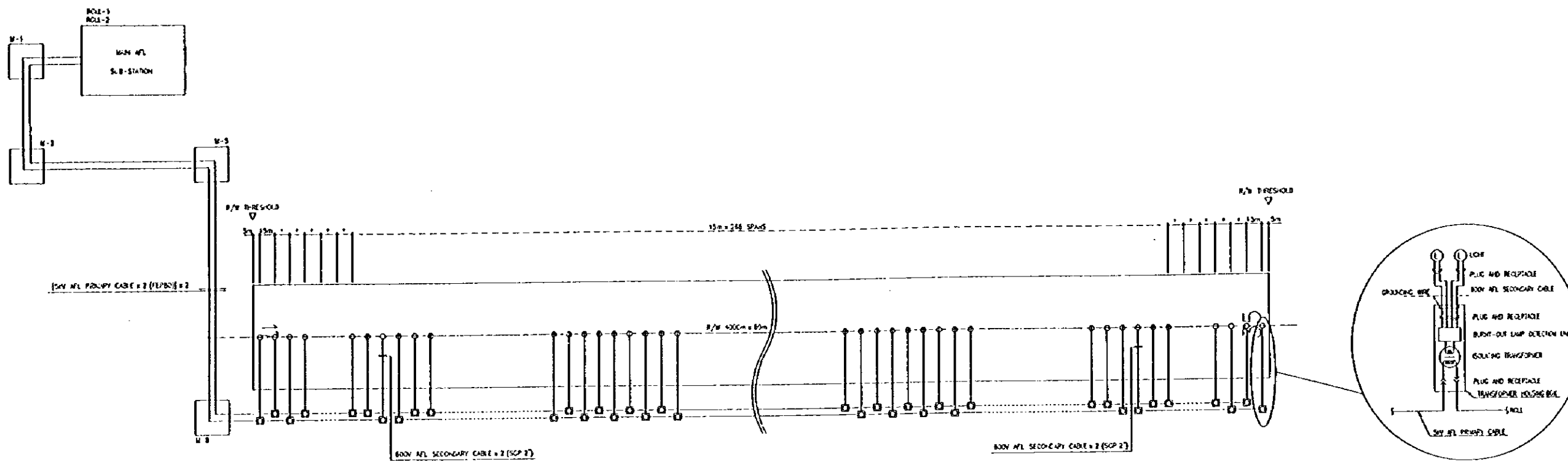


TYPICAL INSTALLATION PLAN OF RUNWAY THRESHOLD LIGHTS AND WING BAR LIGHTS SCALE 1/30

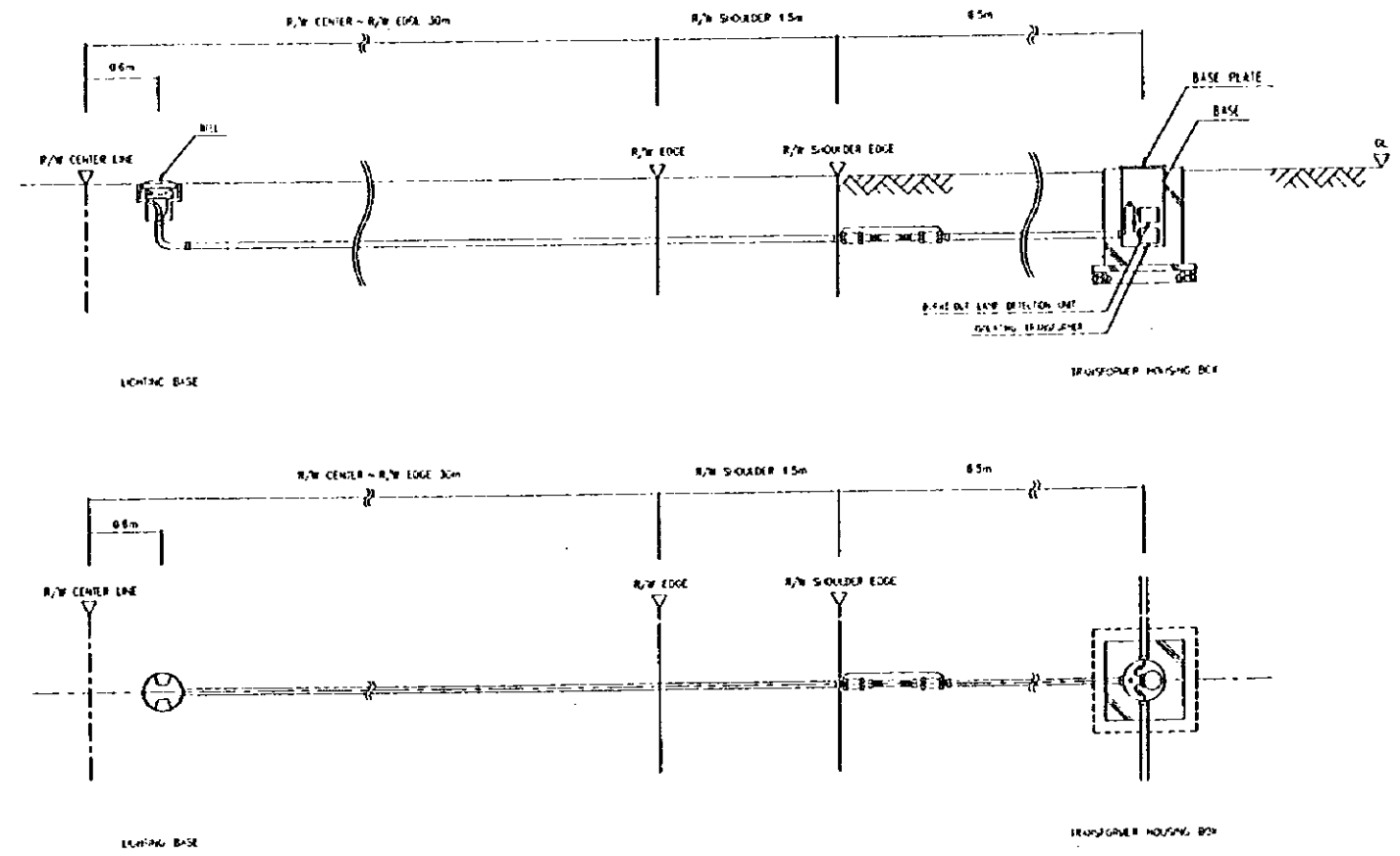


TYPICAL INSTALLATION PLAN OF RUNWAY END LIGHTS SCALE 1/30

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
WIRING DIAGRAM AND TYPICAL INSTALLATION PLAN OF RTHL/RENL	
SCALE 1/30	DWG2-L34
JAPAN INTERNATIONAL COOPERATION AGENCY	

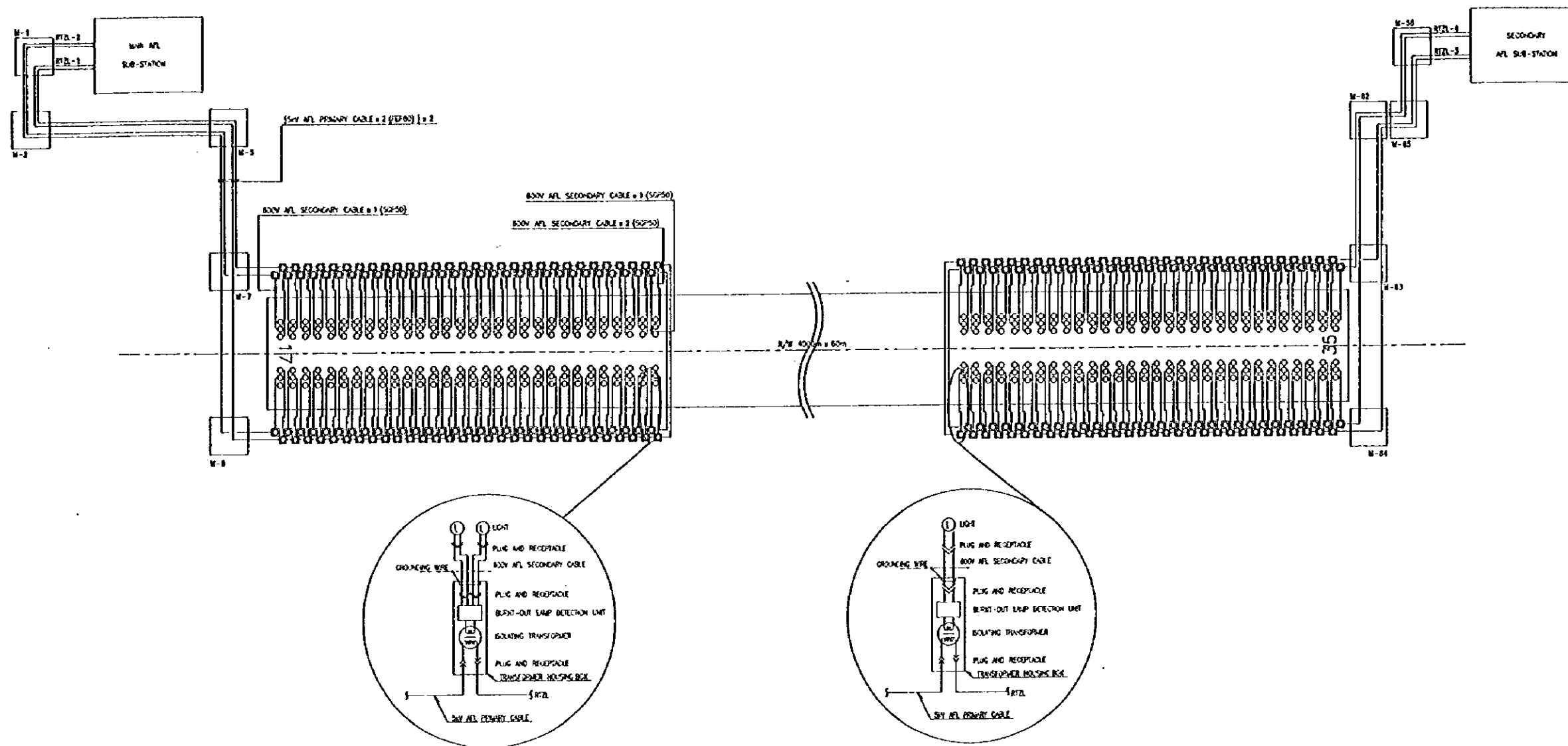


WIRING DIAGRAM OF RUNWAY CENTER LINE LIGHTS

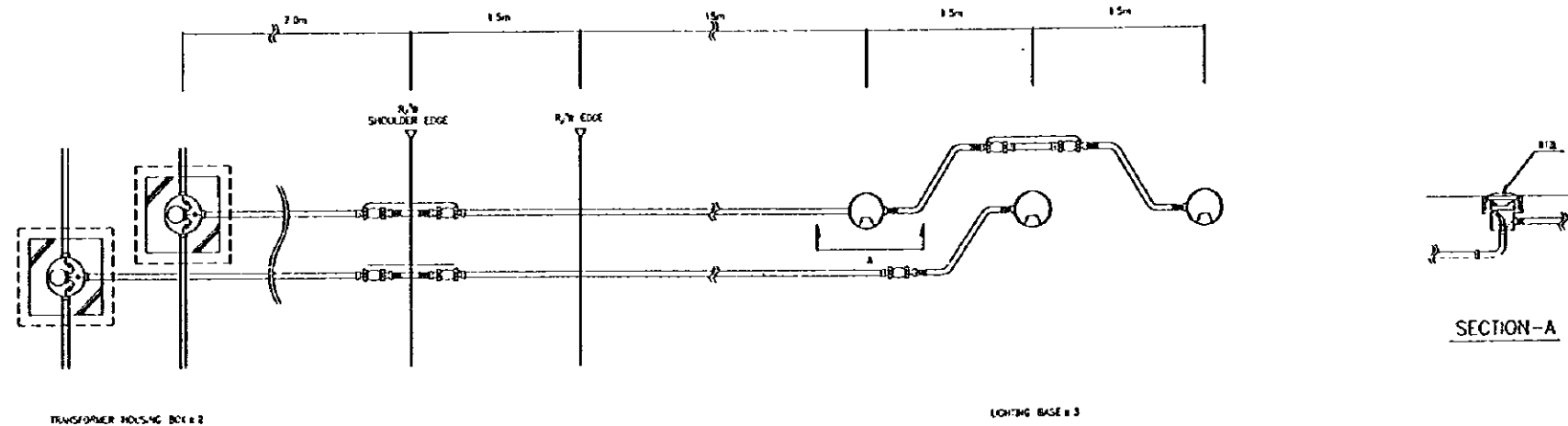


TYPICAL INSTALLATION PLAN OF RUNWAY CENTER LINE LIGHTS

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
WIRING DIAGRAM AND TYPICAL INSTALLATION PLAN OF RCLL	
SCALE 1/30	DWG2-135
JAPAN INTERNATIONAL COOPERATION AGENCY	



WIRING DIAGRAM OF RUNWAY TOUCHDOWN ZONE LIGHTS



TYPICAL INSTALLATION PLAN OF RUNWAY TOUCHDOWN ZONE LIGHTS SCALE 1/30

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
WIRING DIAGRAM AND TYPICAL INSTALLATION PLAN OF RTZL	
SCALE 1/30	DWG2-L36
JAPAN INTERNATIONAL COOPERATION AGENCY	