

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

DETAILED DESIGN OF SHANGHAI PUDONG INTERNATIONAL AIRPORT
FINAL REPORT

PART II -2 Airfield Lighting System

JANUARY 1997

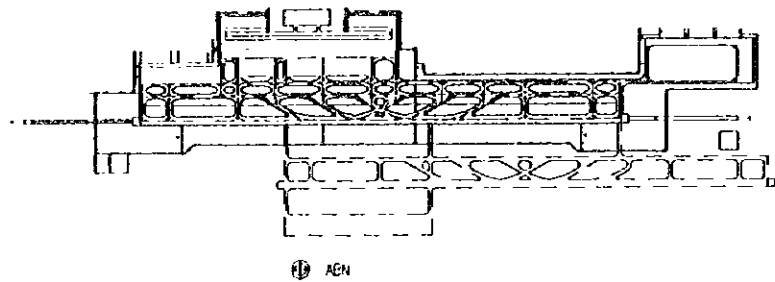
NIPPON KOEI CO., LTD
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DETAILED DESIGN OF SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT

Airfield Lighting System

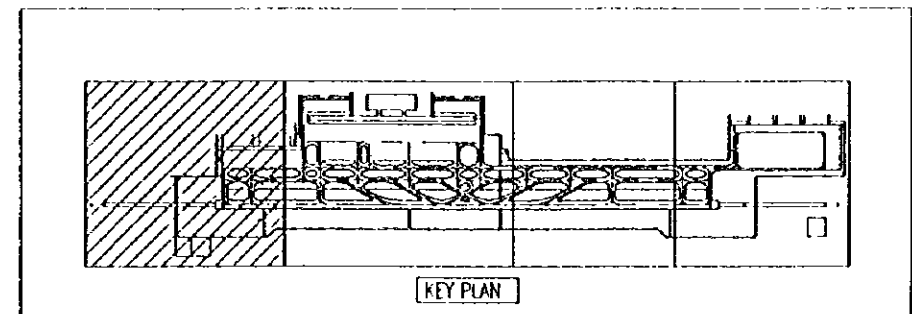
NIPPON KOEI CO., LTD.
NIKKEN SEKKEI LTD.

| DWG No. | TITLE | 題 目 |
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| 2-A6 | SECONDARY AFL SUB-STATION, ELEVATION SECTION | 副灯火用變電所立面圖・断面圖 |

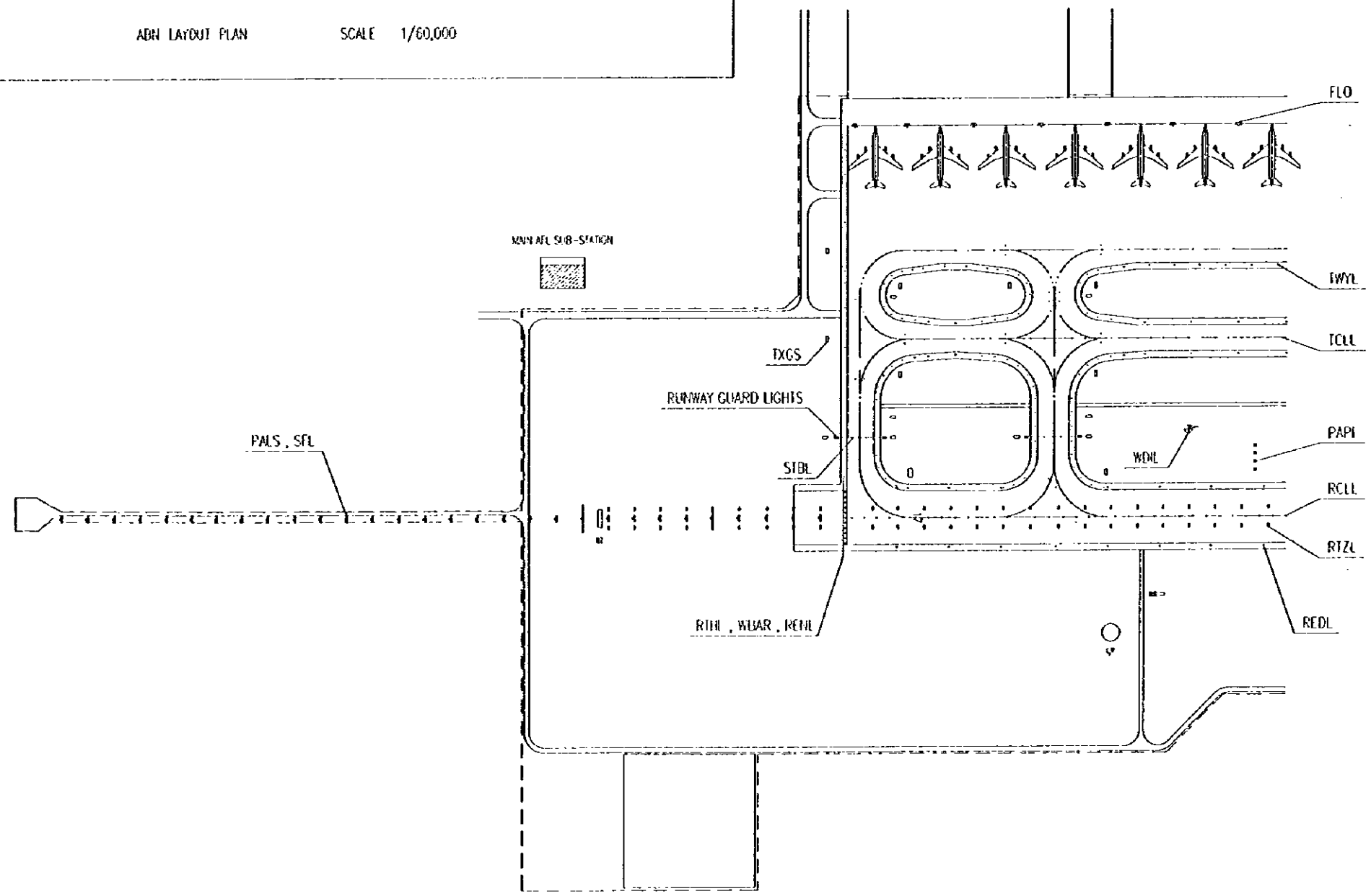


ABN

ABN LAYOUT PLAN SCALE 1/60,000

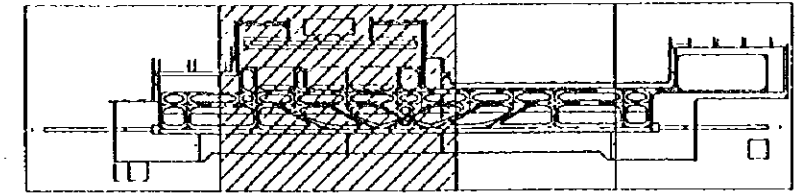


KEY PLAN

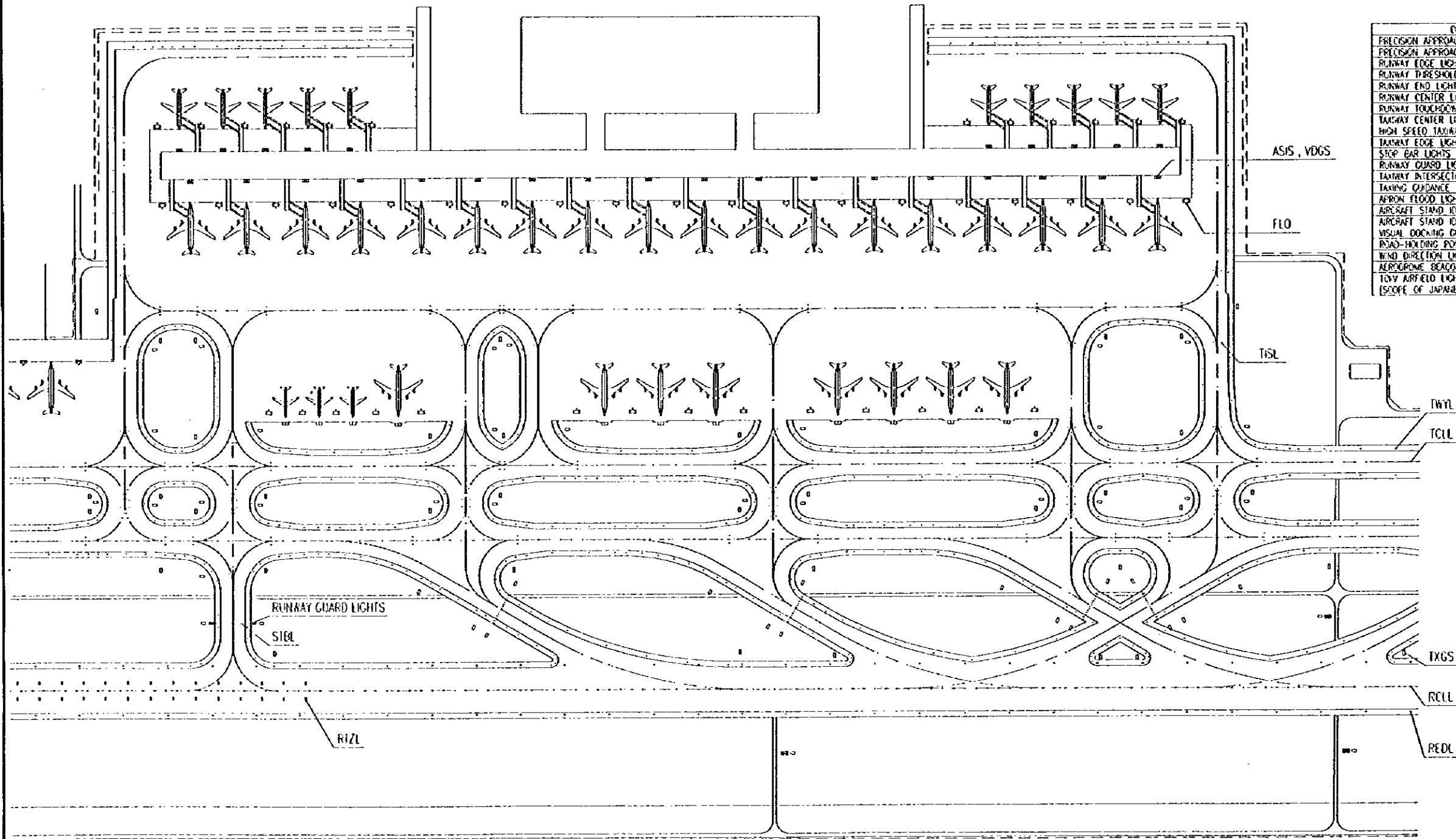


| DESCRIPTION | ABBREVIATIONS | SYMBOL |
|--|----------------------|--------|
| PRECISION APPROACH LIGHTING SYSTEM | PALS | 1 |
| PRECISION APPROACH PATH INDICATOR | PAPI | 1 |
| RUNWAY EDGE LIGHTS | REL | 1 |
| RUNWAY THRESHOLD LIGHTS, WING BAR LIGHTS | RTHL, WEAR | 1 |
| RUNWAY END LIGHTS | REL | 1 |
| RUNWAY CENTER LINE LIGHTS | RCLL | 1 |
| RUNWAY TOUCHDOWN ZONE LIGHTS | RTZL | 1 |
| TAXIWAY CENTER LINE LIGHTS | TCLL | 1 |
| HIGH SPEED TAXIWAY CENTER LINE LIGHTS | TCLL, HSCLL | 1 |
| TAXIWAY EDGE LIGHTS | TWEL | 1 |
| STOP BAR LIGHTS | STBL | 1 |
| RUNWAY GUARD LIGHTS | RG | 1 |
| TAXIWAY INTERSECTION LIGHTS | TISL | 1 |
| TAXIWAY GUIDANCE SIGNS | TXGS | 1 |
| APRON FLOOD LIGHTS | FLO | 2 |
| AIRCRAFT STAND IDENTIFICATION SIGNS | ASIS | 10 |
| AIRCRAFT STAND IDENTIFICATION SIGNS | ASIS, VOSIS | 10 |
| VISUAL DOCKING GUIDANCE SYSTEM | VDGS | 10 |
| ROAD-HOLDING POSITION LIGHTS | RHPL | 10 |
| WIND DIRECTION LIGHTS | WDL | 10 |
| AERODROME BEACON | ABN | 10 |
| TENY AIRFIELD LIGHTING SUB-STATION (SCOPE OF JAPANESE PORTION) | TENY AFL SUB-STATION | 10 |

PEOPLE'S REPUBLIC OF CHINA
 SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997
 TOTAL LAYOUT OF AIRFIELD LIGHTING SYSTEM (1/4)
 SCALE 1:50,000 | DWG2-U (1/4)
 JAPAN INTERNATIONAL COOPERATION AGENCY

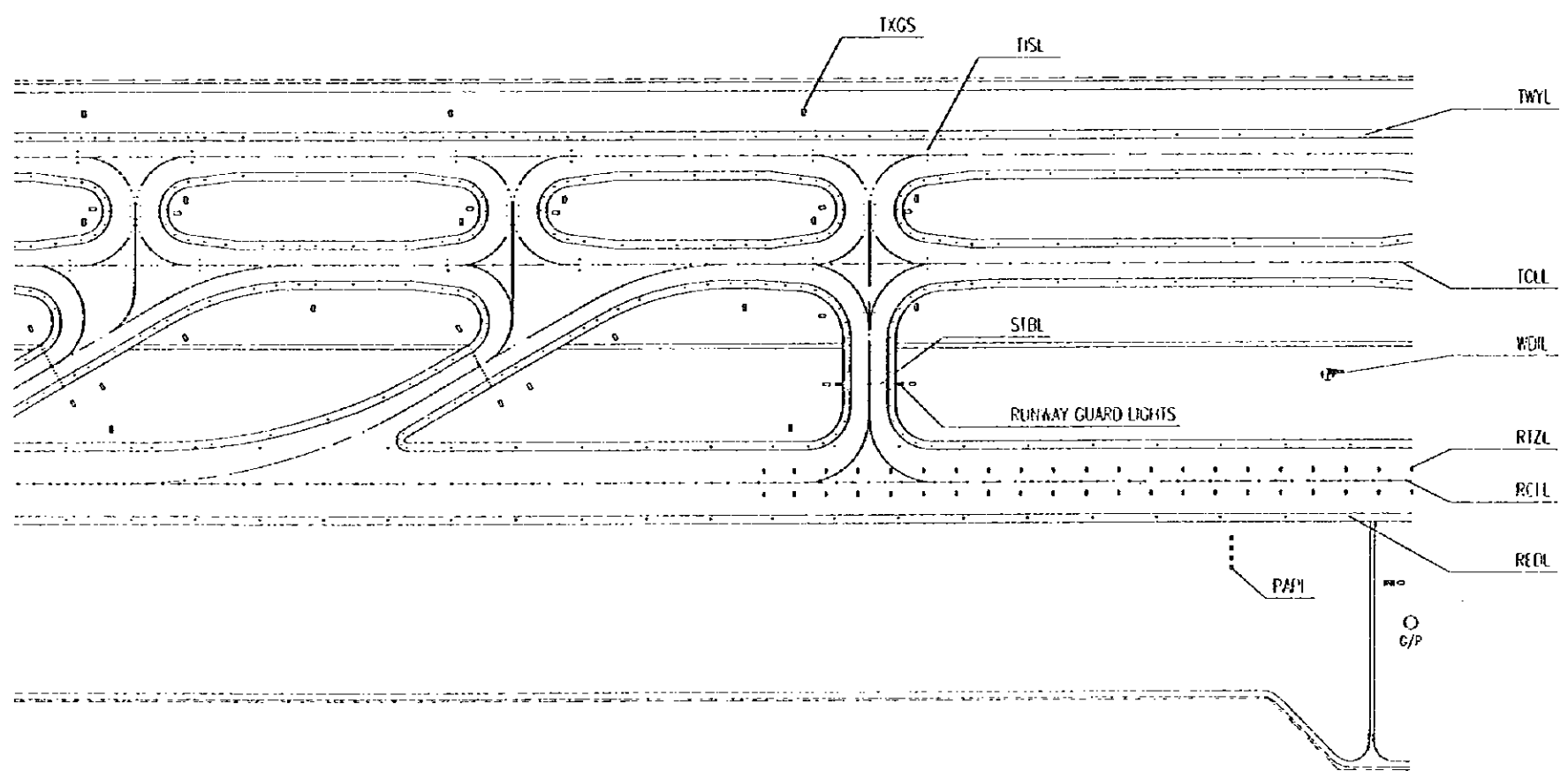
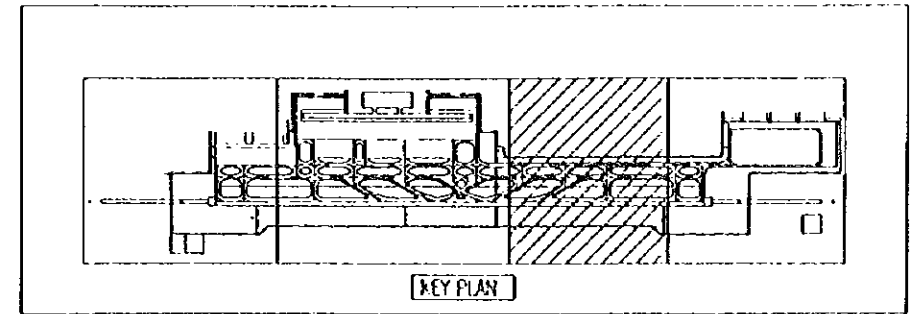


KEY PLAN



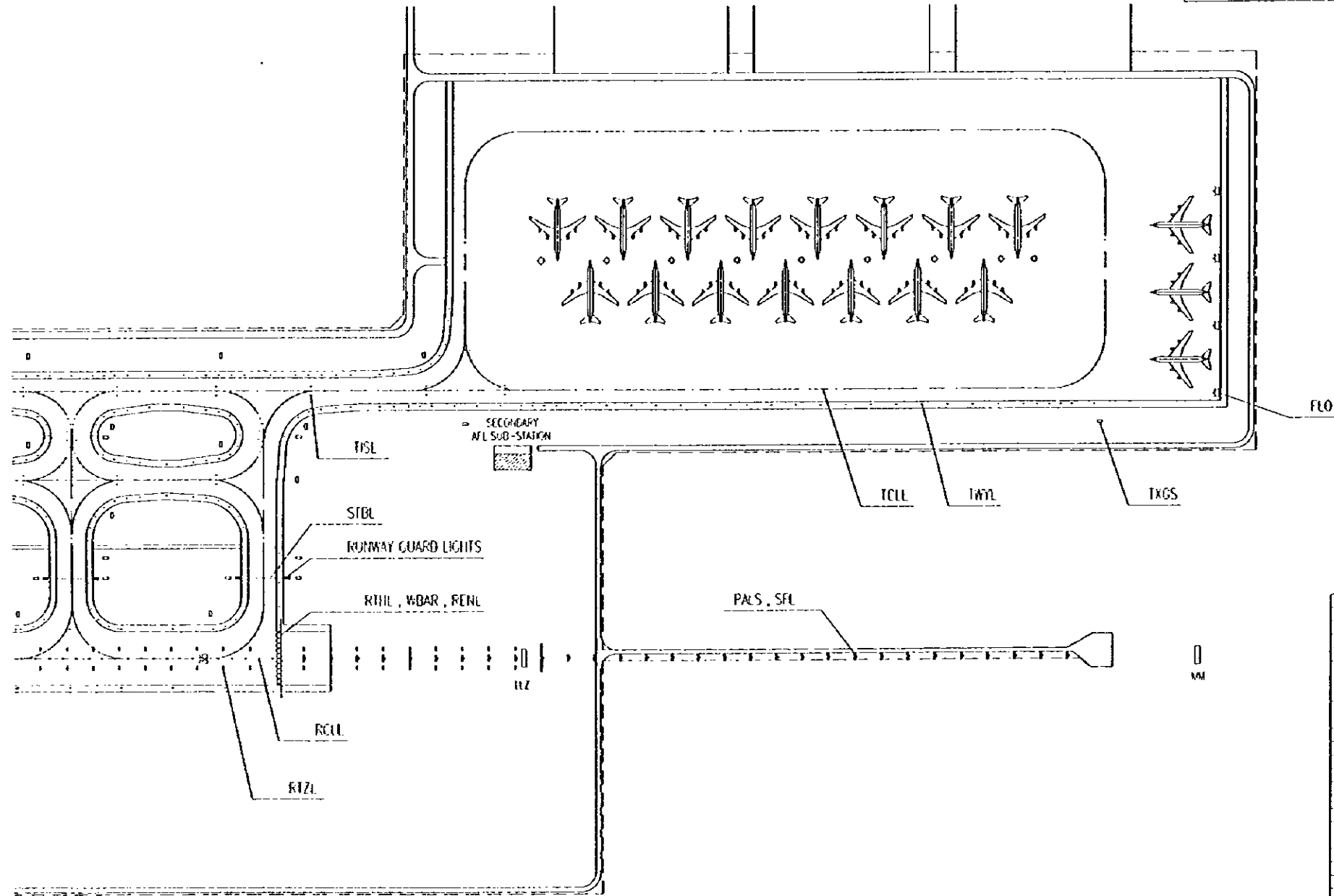
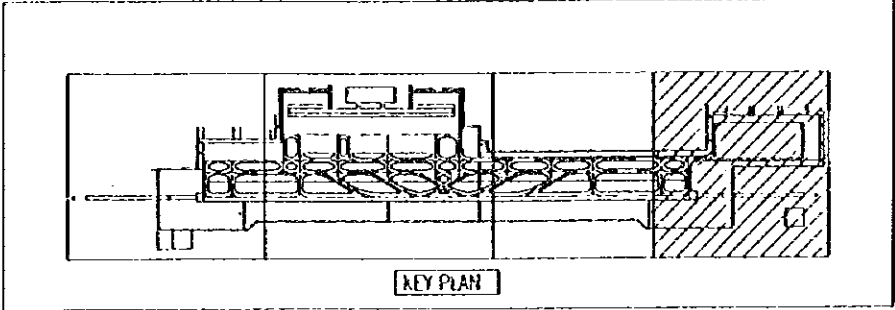
| DESCRIPTION | ABBREVIATIONS | SYMBOL |
|---|----------------------|--------|
| PRECISION APPROACH LIGHTING SYSTEM | PAIS | — |
| PRECISION APPROACH PATH INDICATOR | PAPI | — |
| RUNWAY EDGE LIGHTS | REDL | — |
| RUNWAY THRESHOLD LIGHTS, WING BAR LIGHTS | RTHL, WBAR | — |
| RUNWAY END LIGHTS | REML | — |
| RUNWAY CENTER LINE LIGHTS | RCLL | — |
| RUNWAY TOUCHDOWN ZONE LIGHTS | RZL | — |
| TAXIWAY CENTER LINE LIGHTS | TCLL, HSTCLL | — |
| HIGH SPEED TAXIWAY CENTER LINE LIGHTS | — | — |
| TAXIWAY EDGE LIGHTS | TWYL | — |
| STOP BAR LIGHTS | SIBL | — |
| RUNWAY GUARD LIGHTS | — | — |
| TAXIWAY INTERSECTION LIGHTS | TISL | — |
| TAXIWAY GUIDANCE SIGNS | TXGS | — |
| APRON FLOOD LIGHTS | FLO | — |
| AIRCRAFT STAND IDENTIFICATION SIGNS | ASIS | — |
| AIRCRAFT STAND IDENTIFICATION SIGNS | ASIS, VDGS | — |
| VISUAL DOCKING GUIDANCE SYSTEM | — | — |
| ROAD-HOLDING POSITION LIGHTS | — | — |
| WIND DIRECTION LIGHTS | WDL | — |
| AERODROME BEACON | ASB | — |
| TOBY AIRFIELD LIGHTING SUB-STATION (SCOPE OF JAPANESE PORTION) | TOBY AIR SUB-STATION | — |

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| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 |
| TOTAL LAYOUT OF AIRFIELD LIGHTING SYSTEM (2/4) | |
| SCALE | 1:3000 |
| DWG2-U1 (2/4) | |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



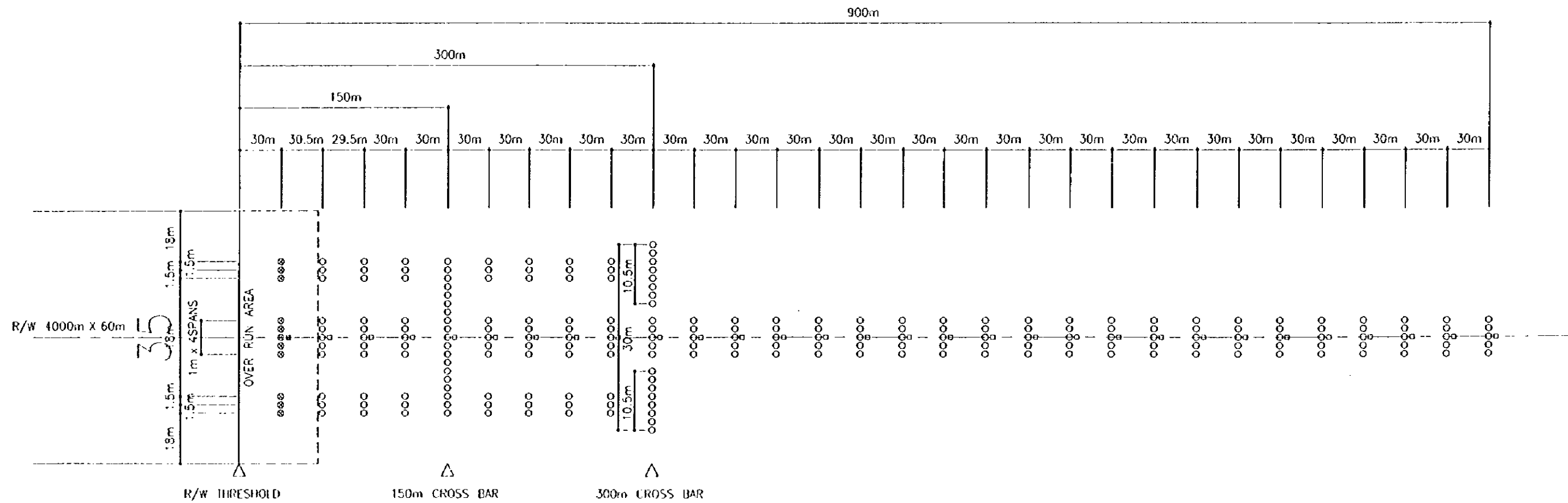
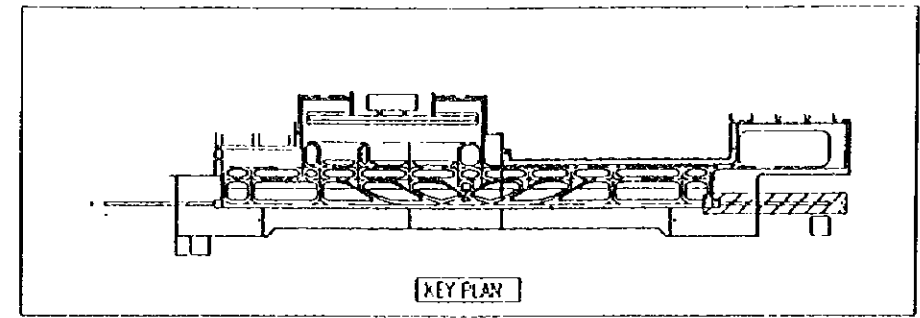
| DESCRIPTION | ABBREVIATIONS | SYMBOL |
|---|----------------------|--------|
| PRECISION APPROACH LIGHTING SYSTEM | PALS | — — |
| PRECISION APPROACH PATH INDICATOR | EAPA | — — |
| RUNWAY EDGE LIGHTS | RLED | — — |
| RUNWAY THRESHOLD LIGHTS, WING BAR LIGHTS | RTHL, WBAR | — — |
| RUNWAY END LIGHTS | RENH | — — |
| RUNWAY CENTER LINE LIGHTS | RCLL | — — |
| RUNWAY TOUCHDOWN ZONE LIGHTS | RTZL | — — |
| TAXIWAY CENTER LINE LIGHTS | TCLL | — — |
| HIGH SPEED TAXIWAY CENTER LINE LIGHTS | TCLL, HSCLL | — — |
| TAXIWAY EDGE LIGHTS | TWYL | — — |
| STOP BAR LIGHTS | SIBL | — — |
| RUNWAY GUARD LIGHTS | — — | — — |
| TAXIWAY INTERSECTION LIGHTS | TISL | — — |
| TAXIWAY GUIDANCE SIGNS | TXGS | — — |
| APPROACH FLOOD LIGHTS | FLO | — — |
| AIRCRAFT STAND IDENTIFICATION SIGNS | ASIS | — — |
| AIRCRAFT STAND IDENTIFICATION SIGNS | ASIS, YOSIS | — — |
| VISUAL DOCKING GUIDANCE SYSTEM | — — | — — |
| ROAD-HOLDING POSITION LIGHTS | — — | — — |
| WIND DIRECTION LIGHTS | WDL | — — |
| ACRODROME BEACON | ABE | — — |
| TOWY AIRFIELD LIGHTING SUB-STATION (SCOPE OF JAPANESE PORTION) | TOWY AFL SUB-STATION | — — |

PEOPLE'S REPUBLIC OF CHINA
 SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997
 TOTAL LAYOUT OF AIRFIELD LIGHTING SYSTEM (3/4)
 SCALE 1:2000 | DWG2-11 (3/4)
 JAPAN INTERNATIONAL COOPERATION AGENCY



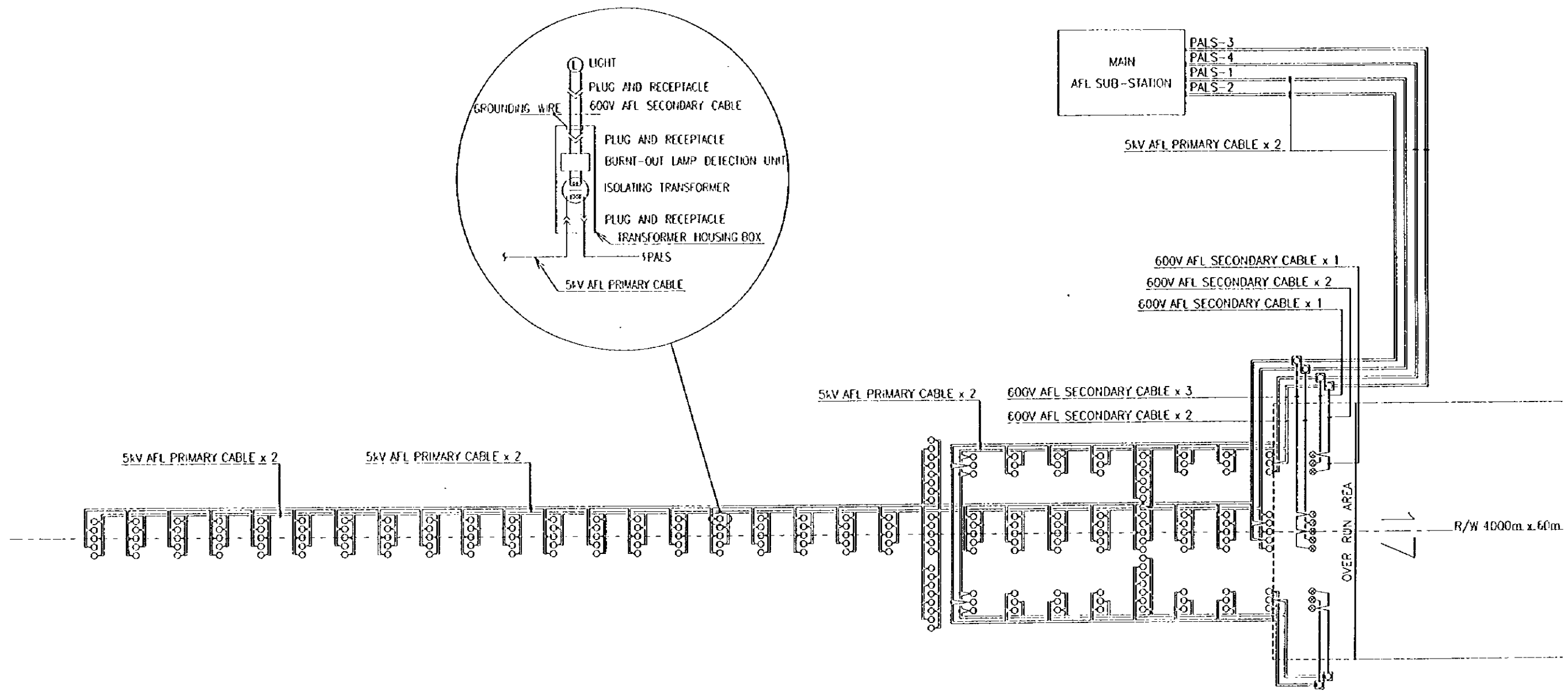
| DESCRIPTION | ABBREVIATIONS | SYMBOL |
|---|-----------------------|--------|
| PRECISION APPROACH LIGHTING SYSTEM | PALS | — |
| PRECISION APPROACH PATH INDICATOR | PAPI | — |
| RUNWAY EDGE LIGHTS | REEL | — |
| RUNWAY THRESHOLD LIGHTS, WING BAR LIGHTS | RTHL, WBAR | — |
| RUNWAY END LIGHTS | RENL | — |
| RUNWAY CENTER LINE LIGHTS | RCLL | — |
| RUNWAY TOUCHDOWN ZONE LIGHTS | RTZL | — |
| TAXIWAY CENTER LINE LIGHTS | TACL, HSTCLL | — |
| HIGH SPEED TAXIWAY CENTER LINE LIGHTS | TACL, HSTCLL | — |
| TAXIWAY EDGE LIGHTS | TEEL | — |
| STOP BAR LIGHTS | STBL | — |
| RUNWAY GUARD LIGHTS | — | — |
| TAXIWAY INTERSECTION LIGHTS | TISL | — |
| TAXIWAY GUIDANCE SIGNS | TXGS | — |
| AIRBON FLOOD LIGHTS | FLO | — |
| AIRCRAFT STAND IDENTIFICATION SIGNS | ASIS | — |
| AIRCRAFT STAND IDENTIFICATION SIGNS | ASIS, VOGS | — |
| VISUAL DOCKING GUIDANCE SYSTEM | — | — |
| STAND-HOLDING POSITION LIGHTS | — | — |
| WIND DIRECTION LIGHTS | WDL | — |
| AERODROME BEACON | ARB | — |
| TOTAL AIRFIELD LIGHTING SUB-STATION (SCOPE OF JAPANESE PORTION) | TOTAL AIL SUB-STATION | — |

PEOPLE'S REPUBLIC OF CHINA
 SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997
 TOTAL LAYOUT OF AIRFIELD LIGHTING SYSTEM (1/4)
 SCALE 1:10000 | DWG2-11 (1/4)
 JAPAN INTERNATIONAL COOPERATION AGENCY



- : PRECISION APPROACH LIGHTING SYSTEM (ELEVATED TYPE)
- ⊙ : PRECISION APPROACH LIGHTING SYSTEM (SURFACE TYPE)
- : SEQUENCE FRASHING LIGHT (ELEVATED TYPE)
- : SEQUENCE FRASHING LIGHT (SURFACE TYPE)

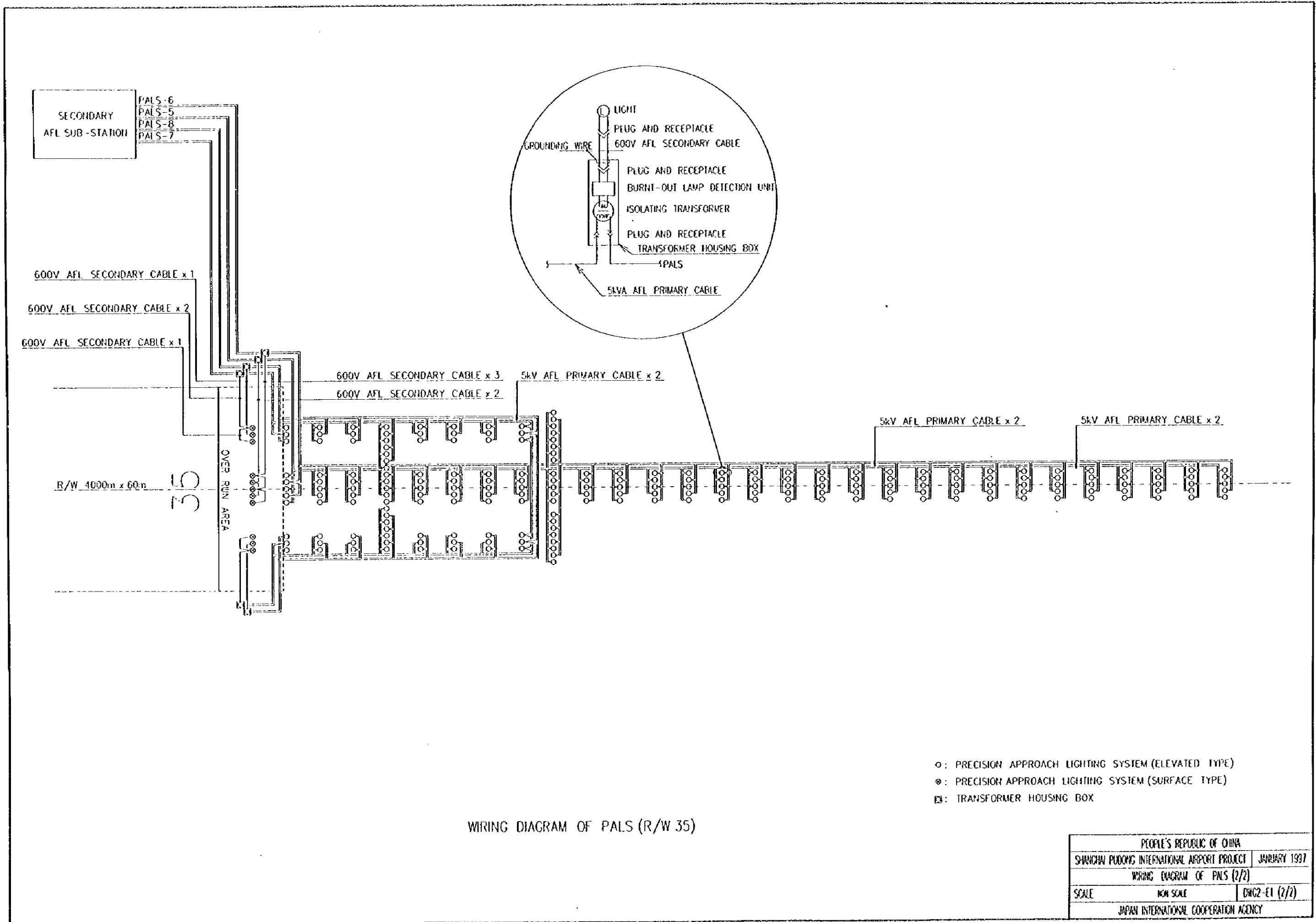
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| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 |
| LAYOUT OF PALS (2/2) | |
| SCALE | 1:10000 |
| DWS2-L2 (2/2) | |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



WIRING DIAGRAM OF PALS(R/W 17)

- : PRECISION APPROACH LIGHTING SYSTEM(ELEVATED TYPE)
- ⊙ : PRECISION APPROACH LIGHTING SYSTEM(SURFACE TYPE)
- ☒ : TRANSFORMER HOUSING BOX

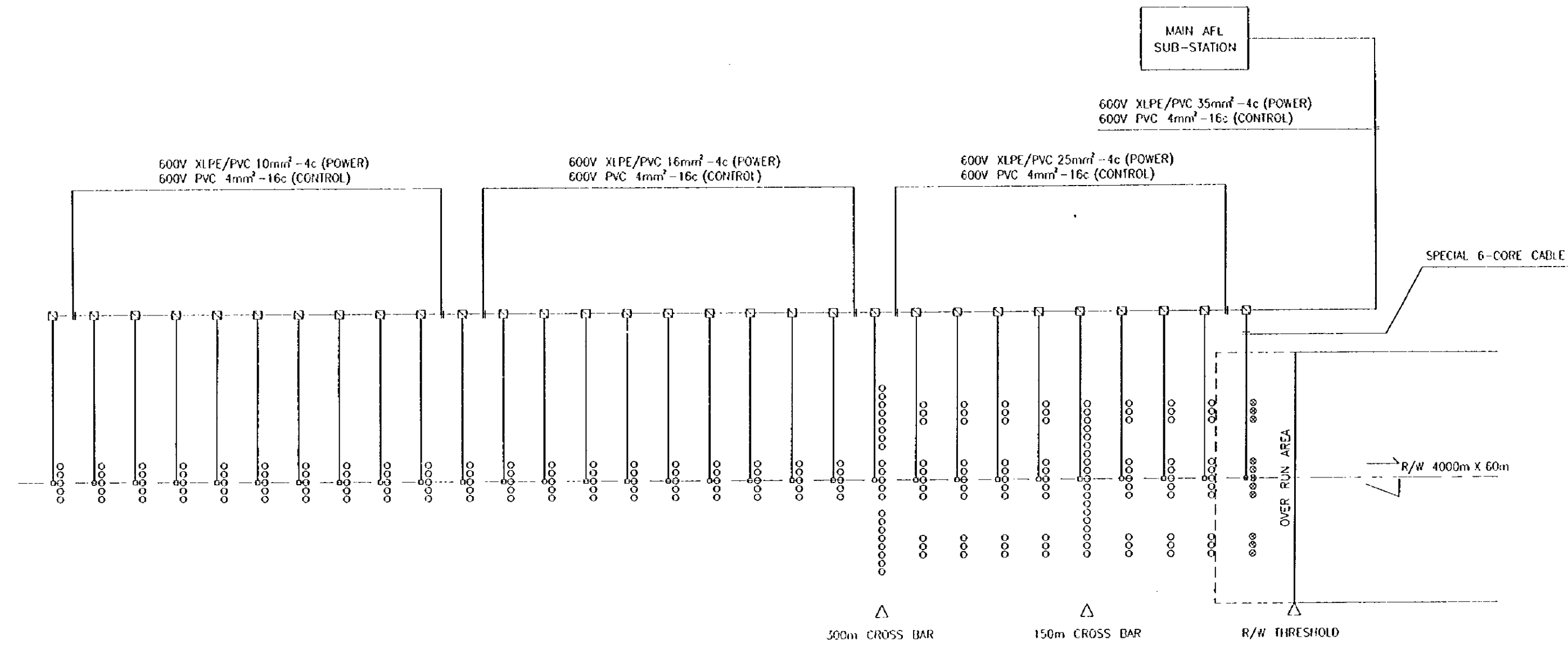
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| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI FUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 |
| WIRING DIAGRAM OF PALS (1/2) | |
| SCALE | NON SCALE DWG2-E1 (1/2) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



WIRING DIAGRAM OF PALS (R/W 35)

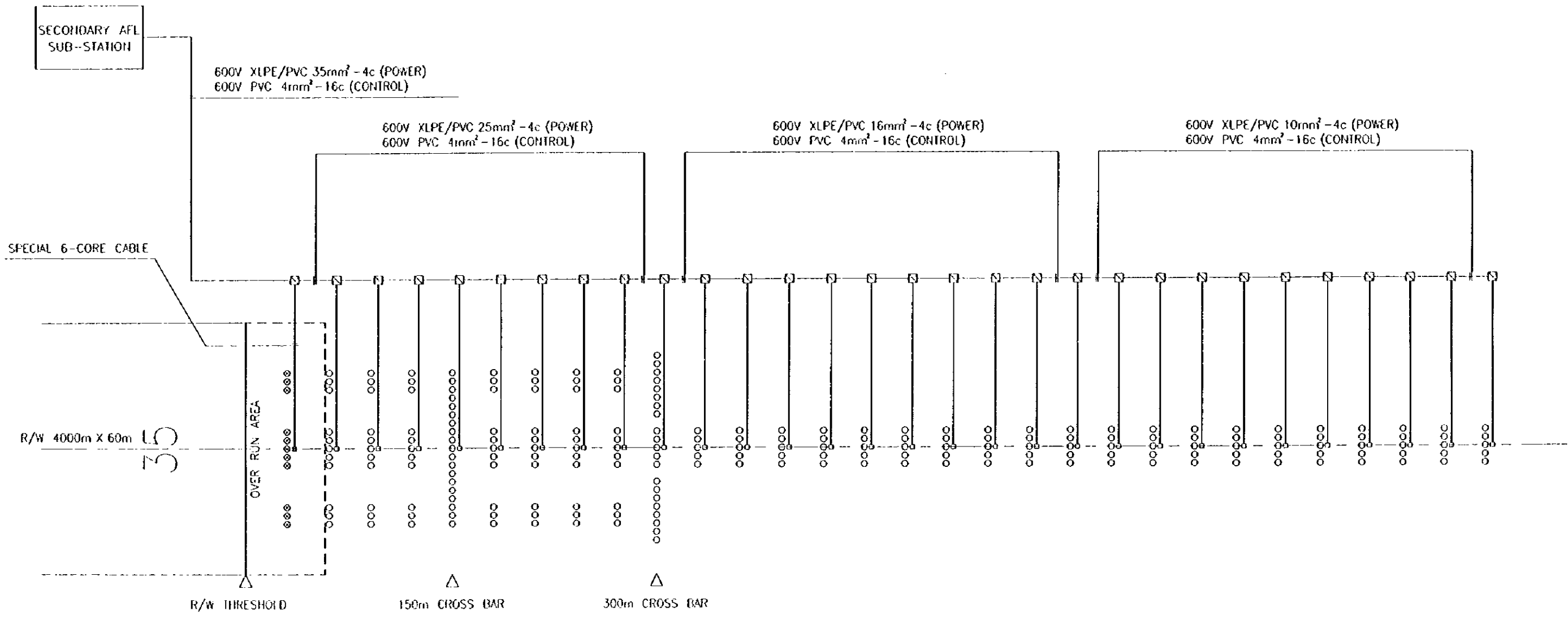
- : PRECISION APPROACH LIGHTING SYSTEM (ELEVATED TYPE)
- ⊙: PRECISION APPROACH LIGHTING SYSTEM (SURFACE TYPE)
- ☒: TRANSFORMER HOUSING BOX

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| PEOPLE'S REPUBLIC OF CHINA | | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 | |
| WIRING DIAGRAM OF PALS (2/2) | | |
| SCALE | NON SCALE | DWG2-E1 (2/2) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | |



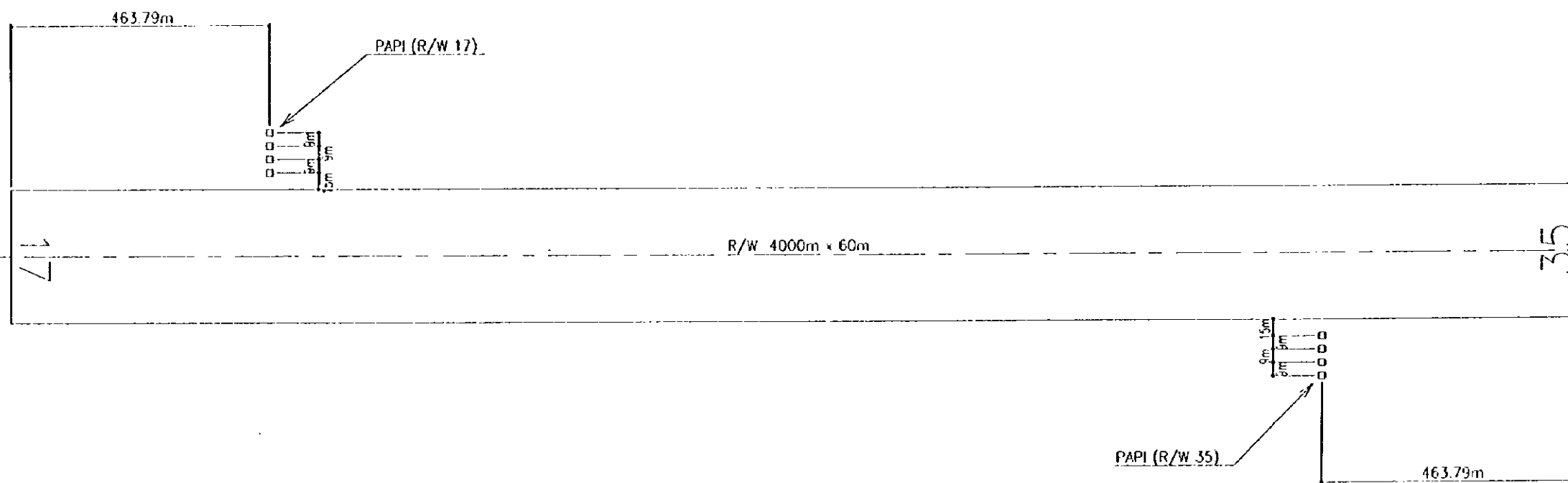
- ◻ : SEQUENCE FLASHING LIGHT (ELEVATED TYPE)
- : SEQUENCE FLASHING LIGHT (SURFACE TYPE)
- : POWER CABINET
- : PRECISION APPROACH LIGHTING SYSTEM (ELEVATED TYPE)
- ⊙ : PRECISION APPROACH LIGHTING SYSTEM (SURFACE TYPE)

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| PEOPLE'S REPUBLIC OF CHINA | | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 | |
| WIRING DIAGRAM OF SFL (1/2) | | |
| SCALE | NON SCALE | DWG2-E2 (1/2) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | |

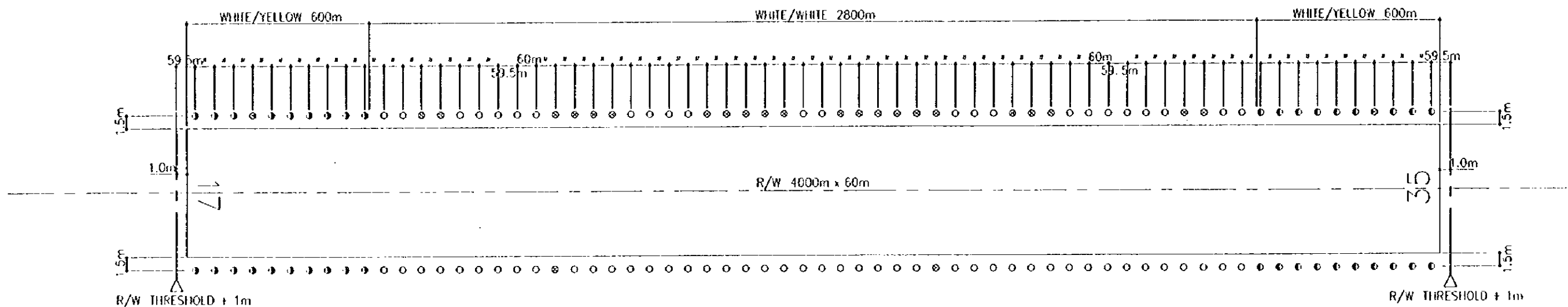


- : SEQUENCE FRASHING LIGHT (ELEVATED TYPE)
- : SEQUENCE FRASHING LIGHT (SURFACE TYPE)
- ⊞ : POWER CABINET
- : PRECISION APPROACH LIGHTING SYSTEM (ELEVATED TYPE)
- ⊗ : PRECISION APPROACH LIGHTING SYSTEM (SURFACE TYPE)

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| PEOPLE'S REPUBLIC OF CHINA | | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | | JANUARY 1997 |
| WIRING DIAGRAM OF SFL (2/2) | | |
| SCALE | NON SCALE | DWG2-E2 (2/2) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | |



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| PEOPLE'S REPUBLIC OF CHINA | | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 | |
| LAYOUT OF PAPI | | |
| SCALE | NON SCALE | DWG2-L4 |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | |



- : RUNWAY EDGE LIGHT WHITE/WHITE (ELEVATED TYPE)
- ⊙ : RUNWAY EDGE LIGHT WHITE/WHITE (SURFACE TYPE)
- ◐ : RUNWAY EDGE LIGHT WHITE/YELLOW (ELEVATED TYPE)
- ◑ : RUNWAY EDGE LIGHT WHITE/YELLOW (SURFACE TYPE)

| | | |
|---|-----------|--------------|
| PEOPLE'S REPUBLIC OF CHINA | | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | | JANUARY 1997 |
| LAYOUT OF REDL | | |
| SCALE | NON SCALE | DWG2-LS |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | |

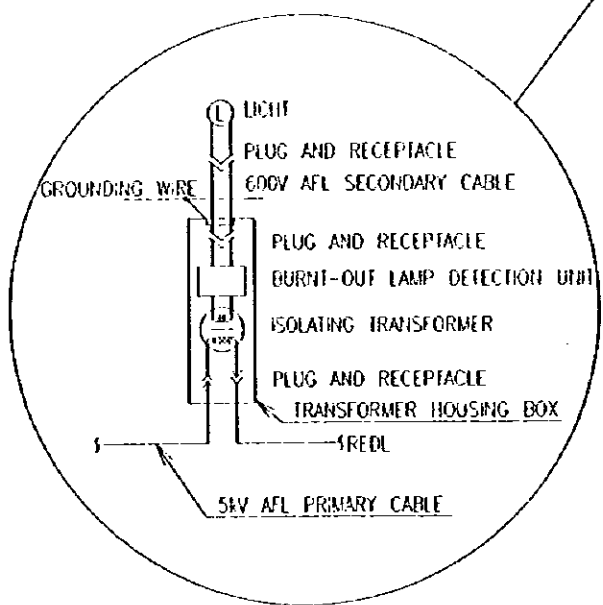
MAIN AFL
SUB-STATION

5kV AFL PRIMARY CABLE x 2

600V AFL SECONDARY CABLE x 1

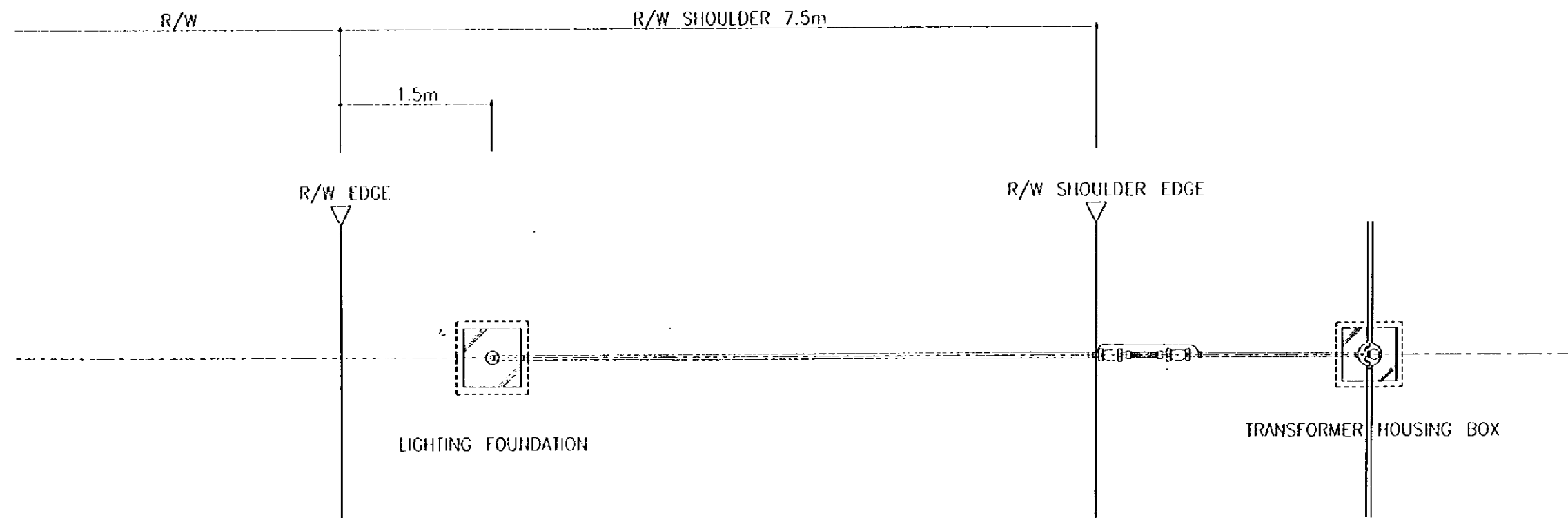
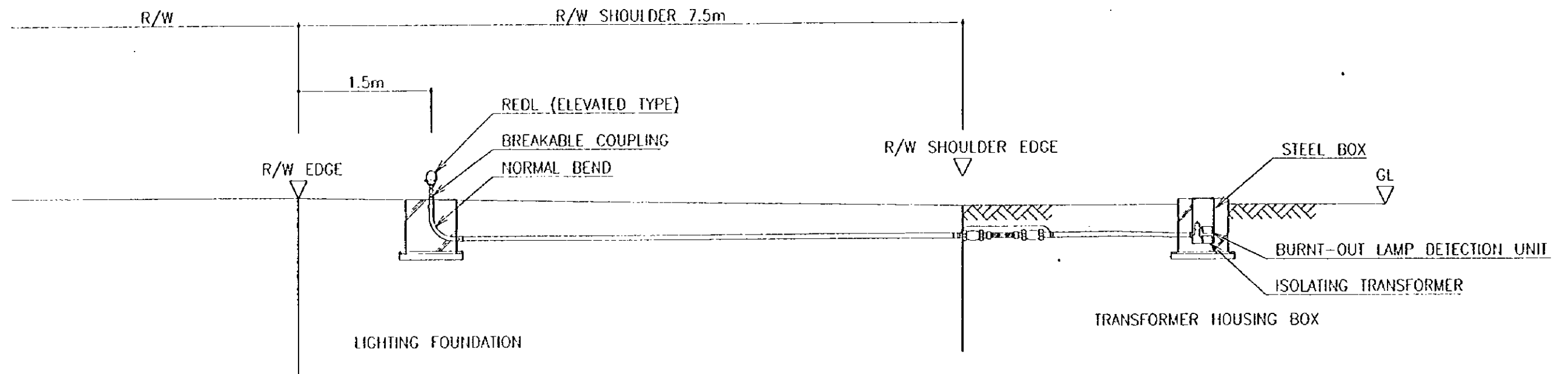
R/W 4000m x 60m

35

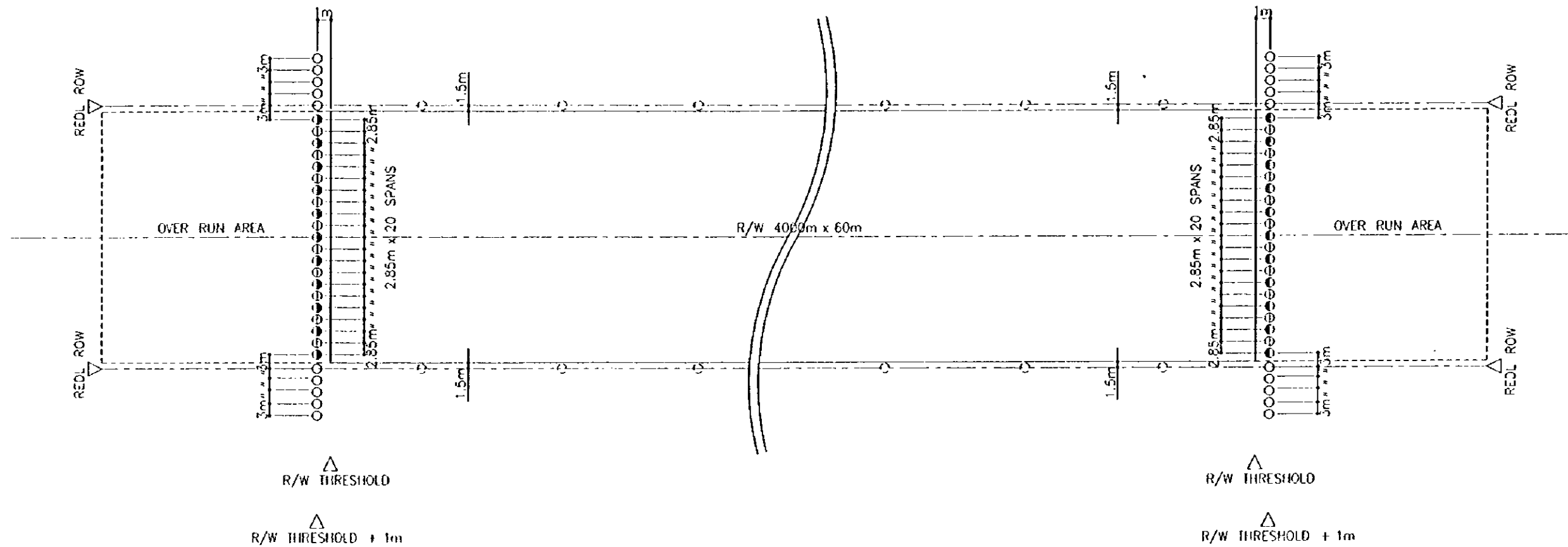


- : RUNWAY EDGE LIGHT WHITE/WHITE (ELEVATED TYPE)
- ⊗ : RUNWAY EDGE LIGHT WHITE/WHITE (SURFACE TYPE)
- ◐ : RUNWAY EDGE LIGHT WHITE/YELLOW (ELEVATED TYPE)
- ◑ : RUNWAY EDGE LIGHT WHITE/YELLOW (SURFACE TYPE)
- : RUNWAY END LIGHT
- ⊠ : TRANSFORMER HOUSING BOX

| | |
|---|-------------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 |
| WIRING DIAGRAM OF REDL | |
| SCALE | NON SCALE DWG2-E3 |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |

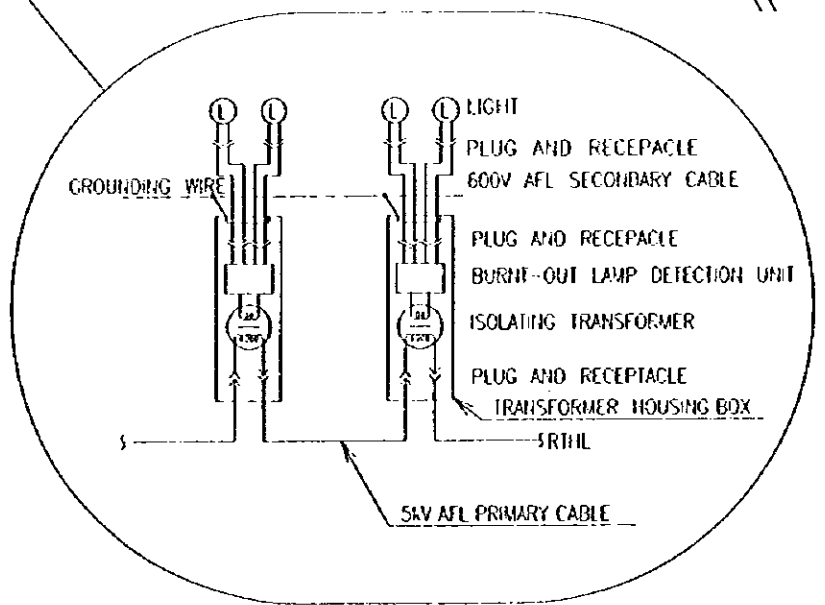
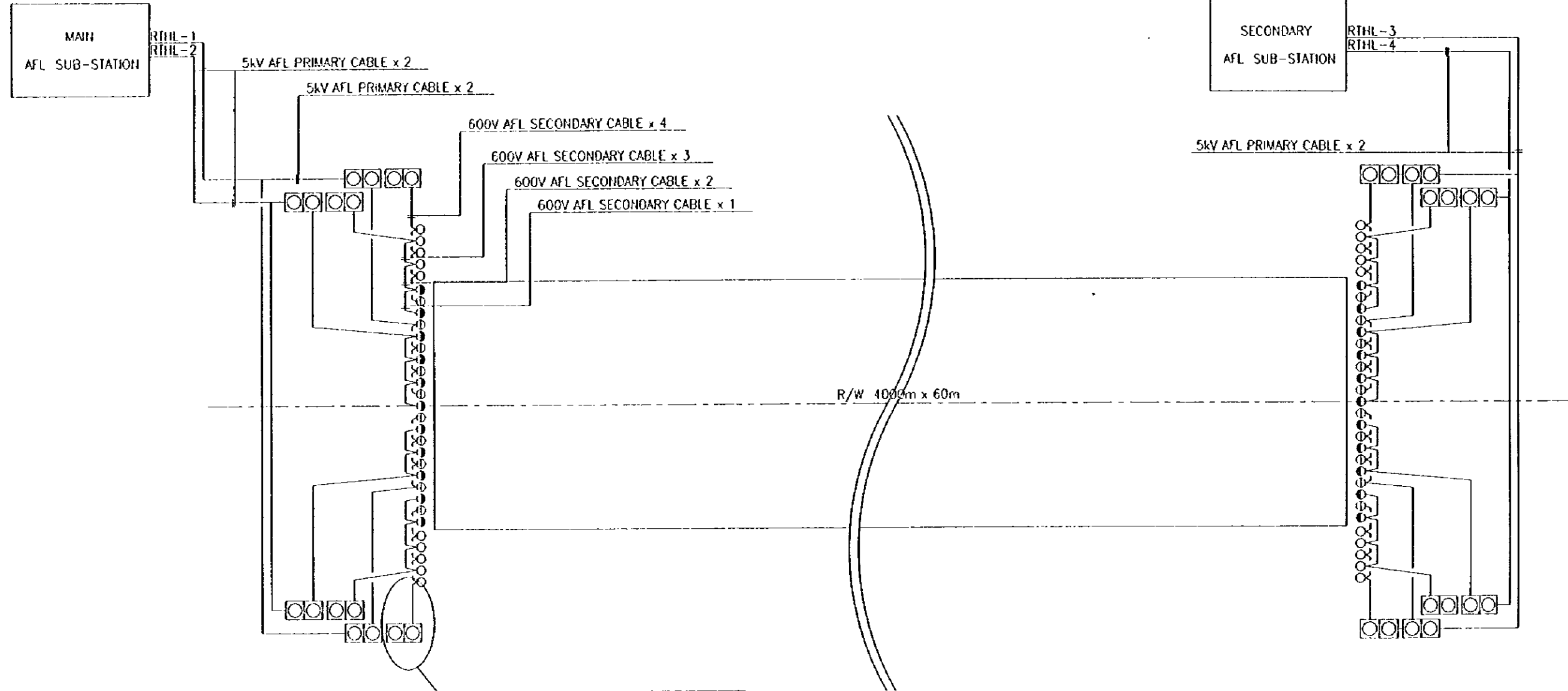


| | |
|---|--------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 |
| TYPICAL INSTALLATION PLAN OF REDL | |
| SCALE | 1:50 |
| DWC2-16 | |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



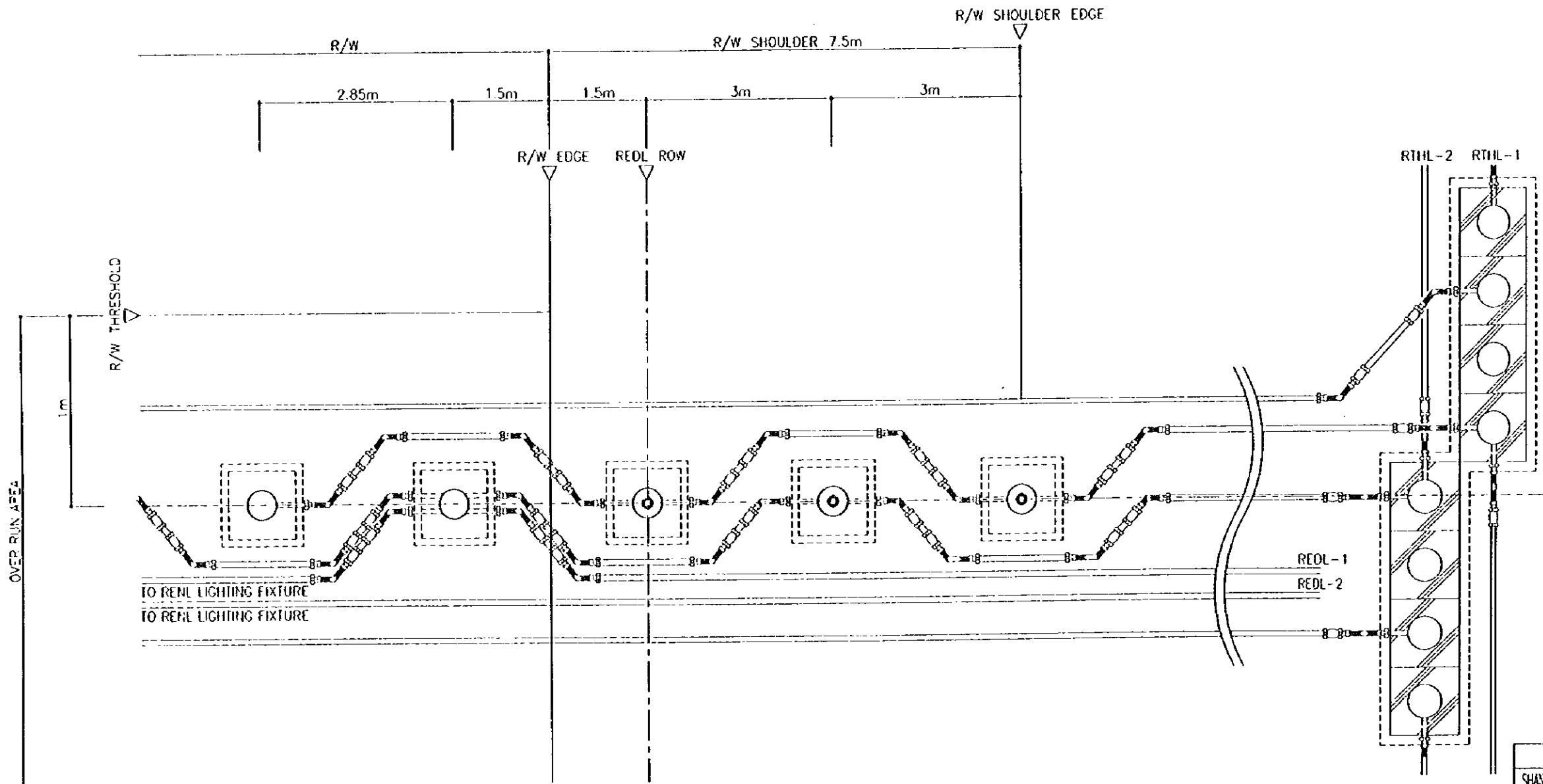
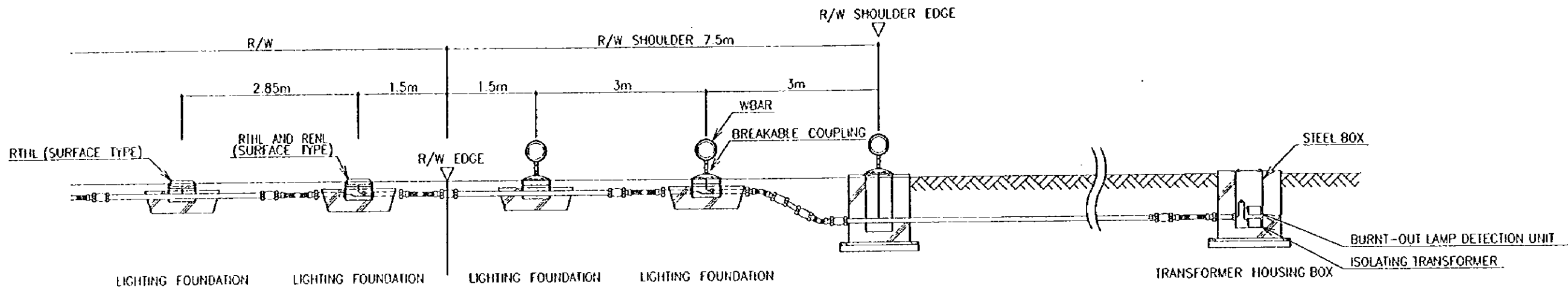
- : WING BAR LIGHT (ELEVATED TYPE)
- ⊖ : RUNWAY THRESHOLD LIGHT (SURFACE TYPE)
- ⊕ : RUNWAY THRESHOLD AND END LIGHT (SURFACE TYPE)
- : RUNWAY EDGE LIGHT

| | | |
|---|--------------|---------|
| PEOPLE'S REPUBLIC OF CHINA | | |
| SHANDONG PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 | |
| LAYOUT OF RWL AND WBAR | | |
| SCALE | NON SCALE | DWG2-17 |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | |

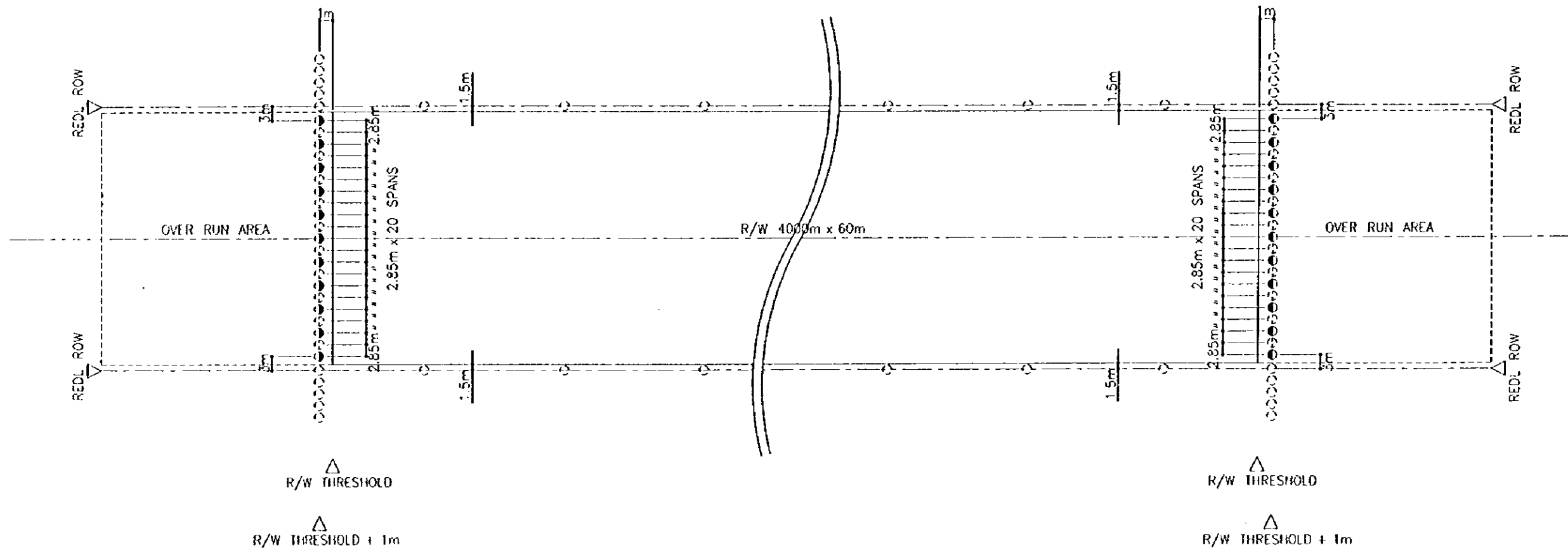


- : WING BAR LIGHT
- ⊕ : RUNWAY THRESHOLD LIGHT
- ⦿ : RUNWAY THRESHOLD AND END LIGHT
- ⊠ : TRANSFORMER HOUSING BOX

| | | |
|---|--------------|---------|
| PEOPLE'S REPUBLIC OF CHINA | | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 | |
| WIRING DIAGRAM OF RTHL AND WEAR | | |
| SCALE | NON SCALE | DMGZ-E4 |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | |

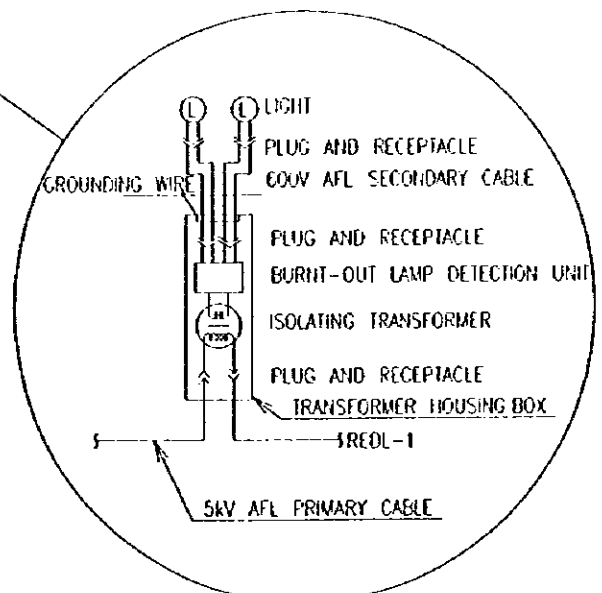
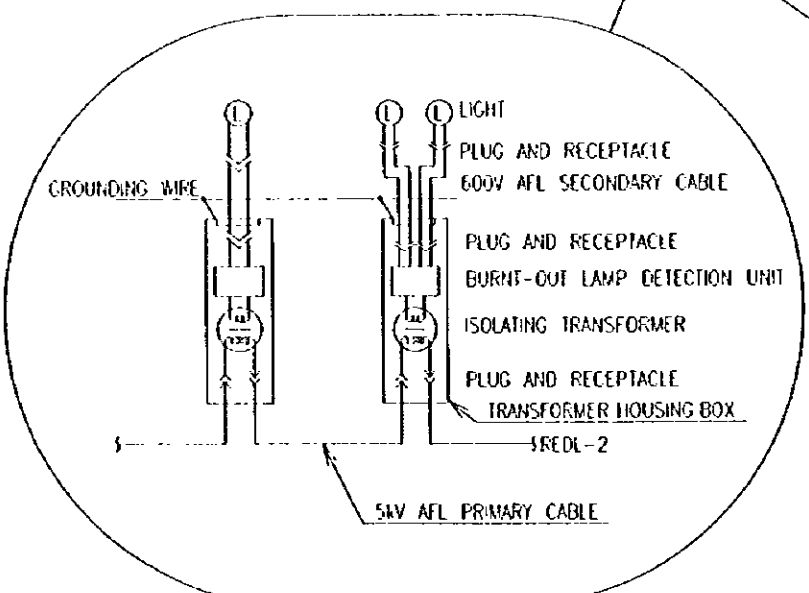
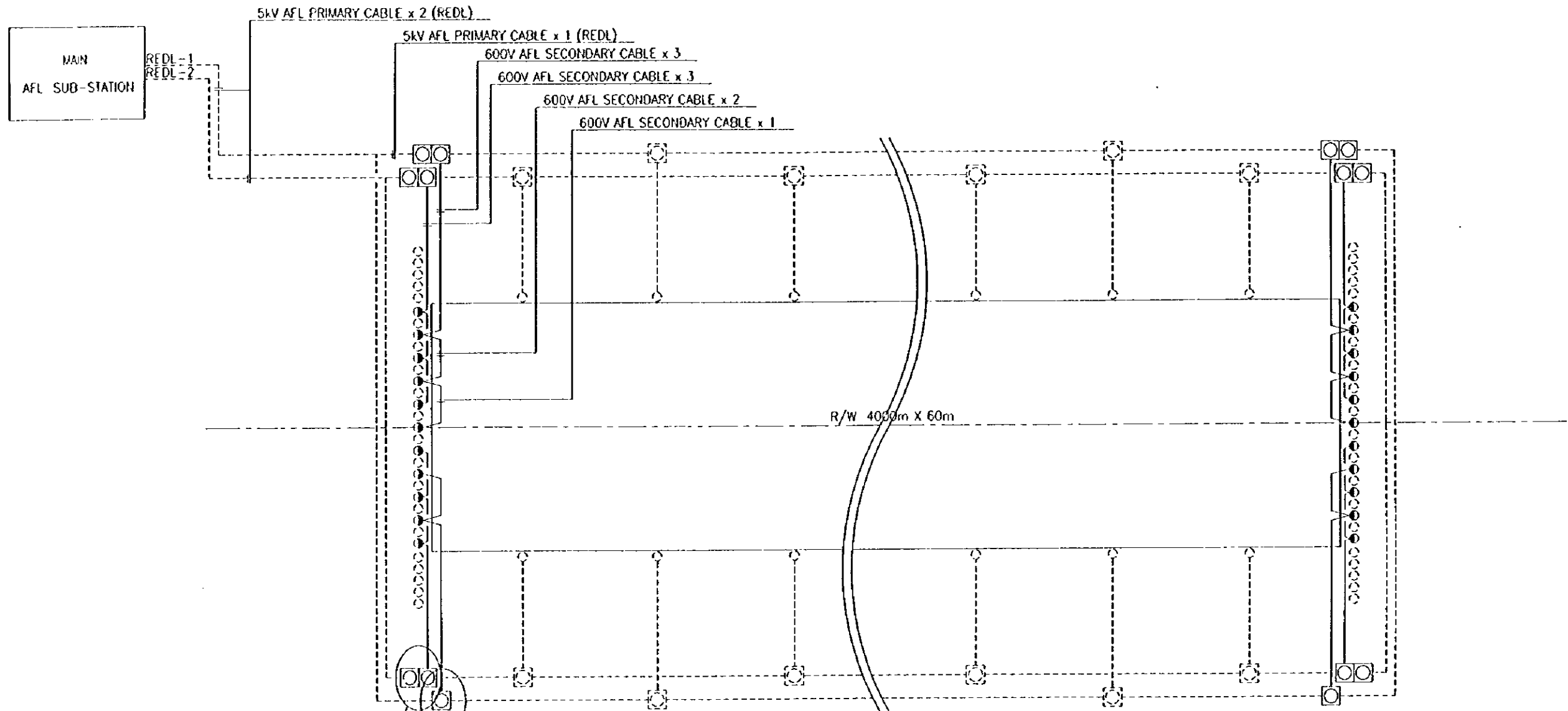


| | | |
|---|--------------|---------|
| PEOPLE'S REPUBLIC OF CHINA | | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 | |
| TYPICAL INSTALLATION PLAN OF RTIL AND WBAR | | |
| SCALE | NON SCALE | DWG2-18 |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | |



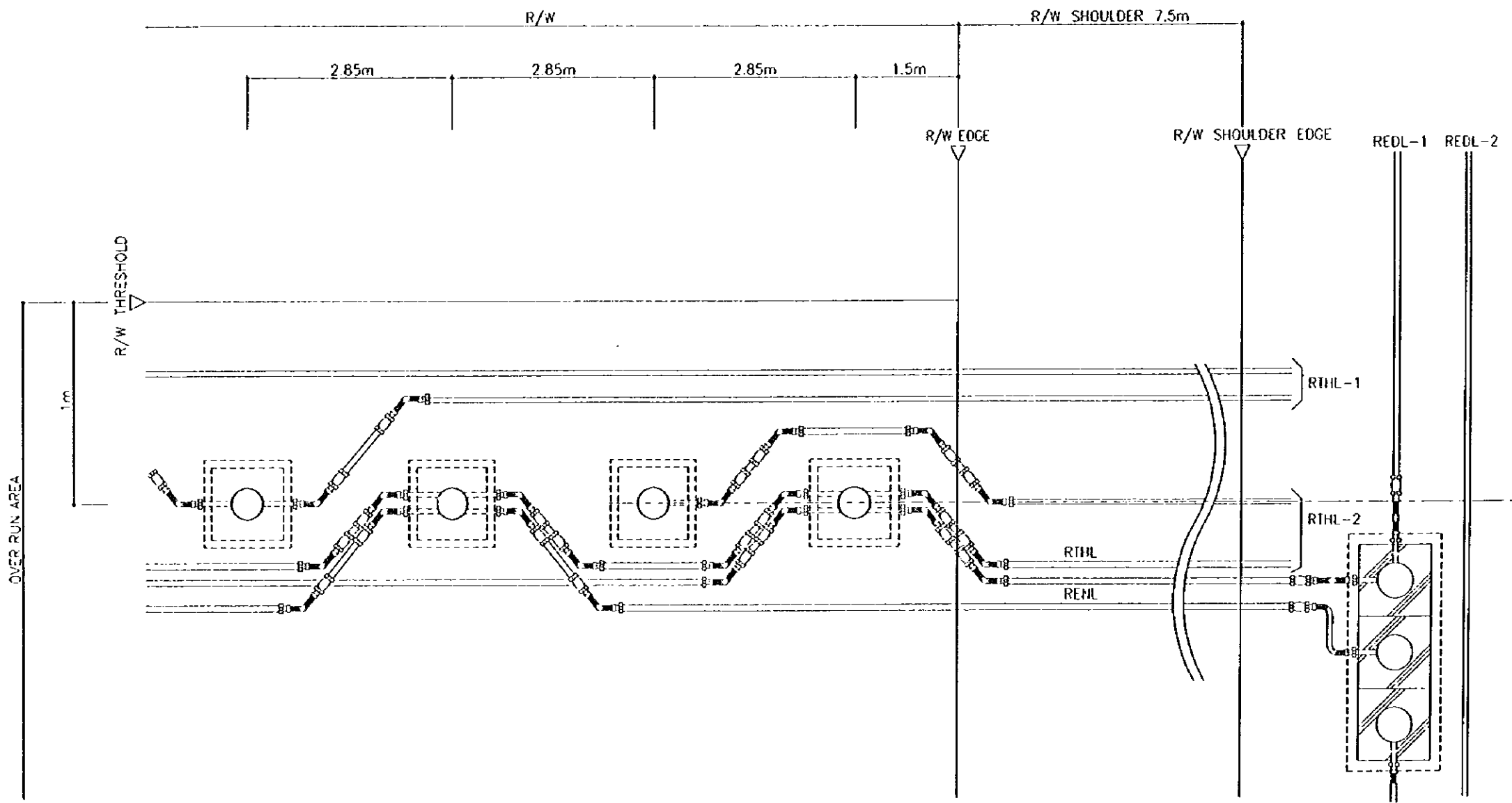
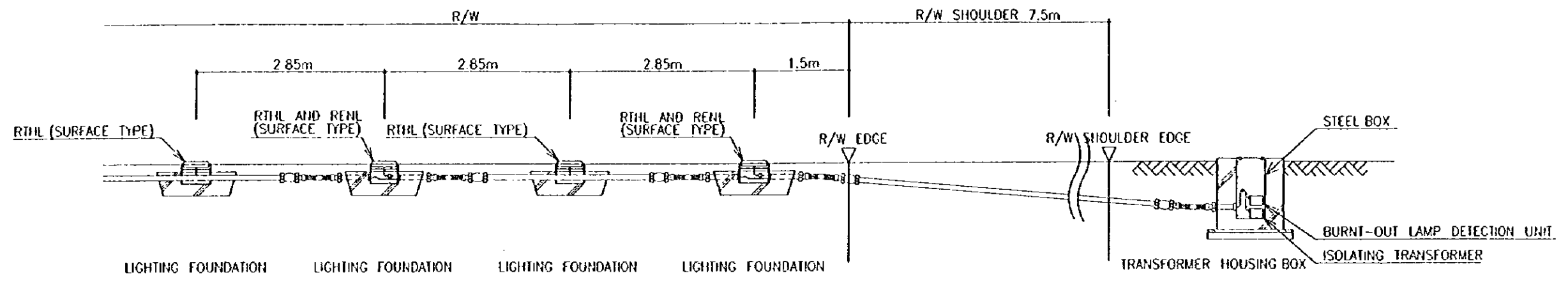
- : RUNWAY THRESHOLD AND END LIGHT (SURFACE TYPE)
- : WING BAR LIGHT (ELEVATED TYPE)
- ⊙ : RUNWAY THRESHOLD LIGHT (SURFACE TYPE)
- ◇ : RUNWAY EDGE LIGHT

| | | |
|---|-----------|--------------|
| PEOPLE'S REPUBLIC OF CHINA | | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | | JANUARY 1997 |
| LAYOUT OF RWL | | |
| SCALE | NON SCALE | DWG2-19 |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | |

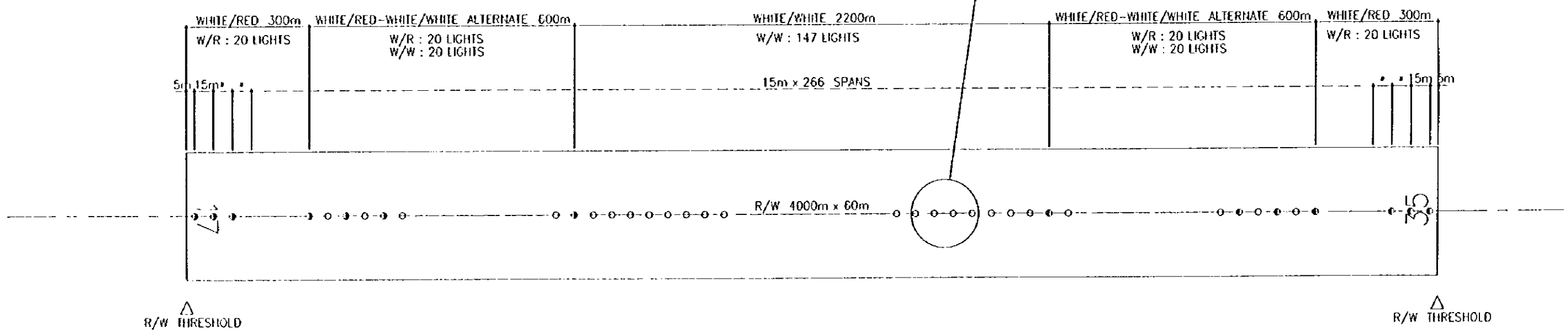
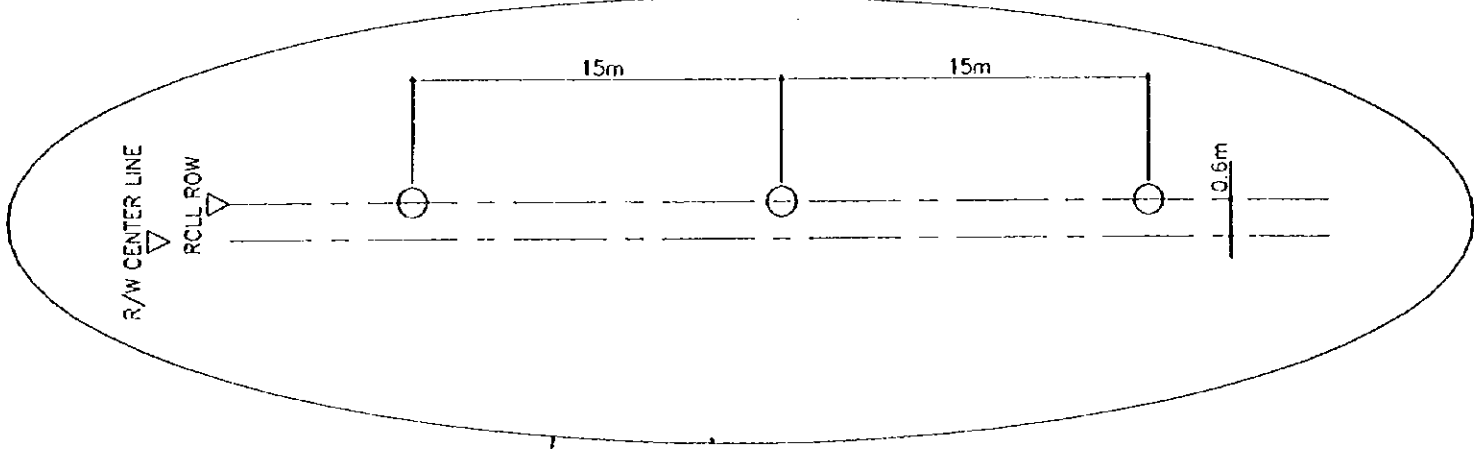


- : RUNWAY THRESHOLD LIGHT, WING BAR LIGHT
- : RUNWAY THRESHOLD AND END LIGHT
- ◇ : RUNWAY EDGE LIGHT
- : TRANSFORMER HOUSING BOX

| | | |
|---|-----------|--------------|
| PEOPLE'S REPUBLIC OF CHINA | | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | | JANUARY 1997 |
| WIRING DIAGRAM OF REL | | |
| SCALE | NON SCALE | DWG2-E5 |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | |



| | | |
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| PEOPLE'S REPUBLIC OF CHINA | | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | | JANUARY 1997 |
| TYPICAL INSTALLATION PLAN OF RENL | | |
| SCALE | NON SCALE | DWG2-L10 |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | |



- : RUNWAY CENTER LINE LIGHT WHITE/WHITE
- : RUNWAY CENTER LINE LIGHT WHITE/RED

| | | |
|---|--------------|-----------|
| PEOPLE'S REPUBLIC OF CHINA | | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 | |
| LAYOUT OF ROLL | | |
| SCALE | NON SCALE | DWG2-E111 |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | |

MAIN AFL
SUB-STATION

R/W THRESHOLD

R/W THRESHOLD

5m 15m

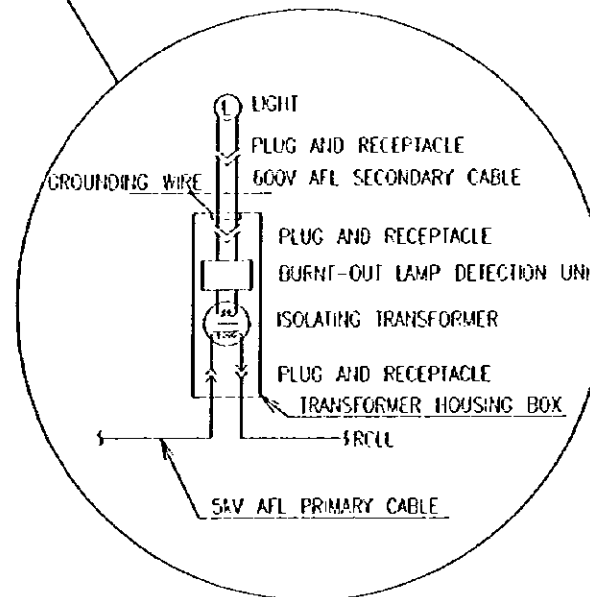
15m x 266 SPANS

15m 5m

R/W 4000m x 60m

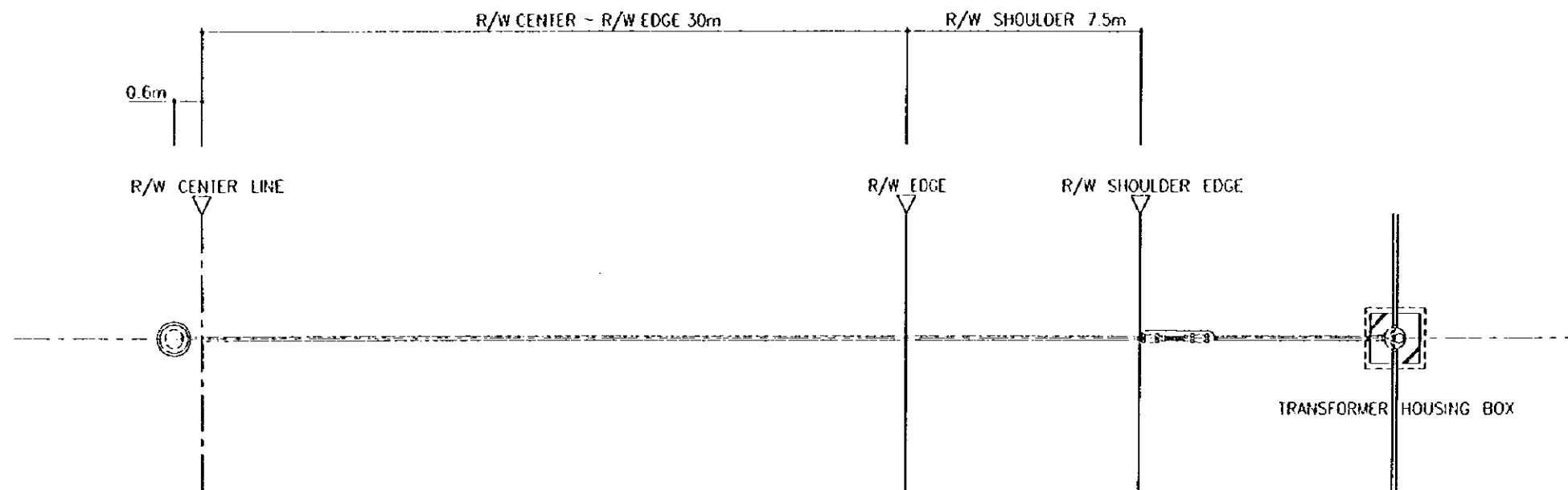
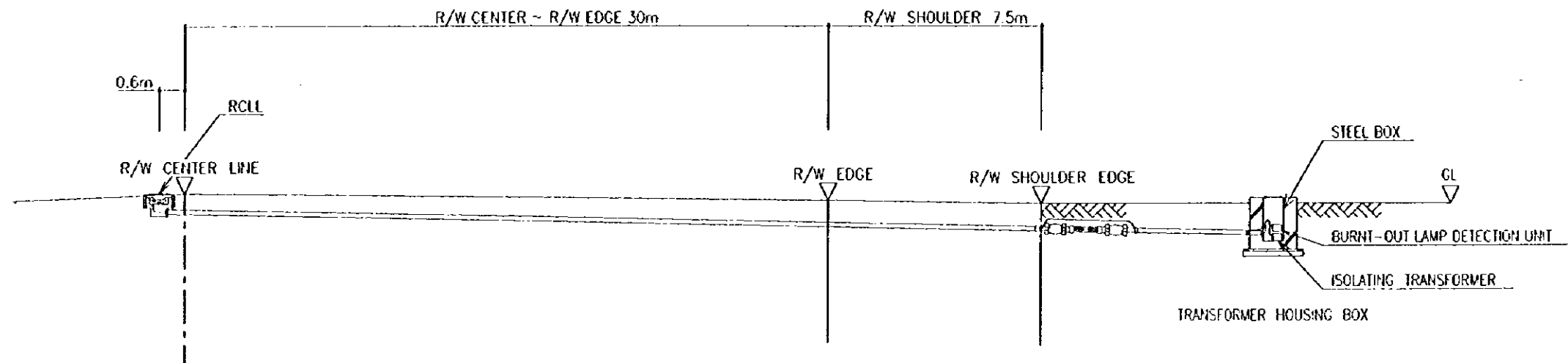
5kV AFL PRIMARY CABLE x 1

600V AFL SECONDARY CABLE x 1

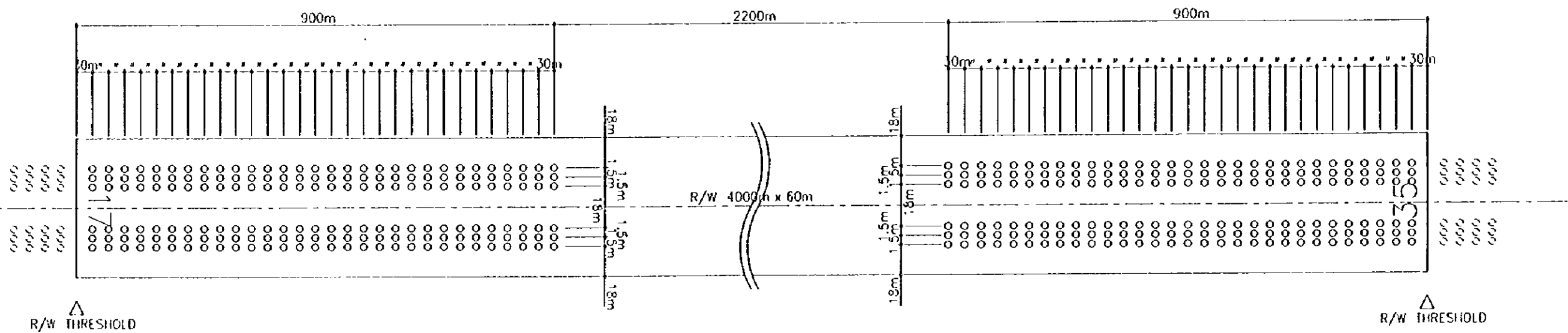


- : RUNWAY CENTER LINE LIGHT WHITE/WHITE
- ◐ : RUNWAY CENTER LINE LIGHT WHITE/RED
- ⊠ : TRANSFORMER HOUSING BOX

| | | |
|---|----------|--------------|
| PEOPLE'S REPUBLIC OF CHINA | | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | | JANUARY 1997 |
| WIRING DIAGRAM OF ROLL | | |
| SCALE | MM SCALE | DWG2-E6 |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | |

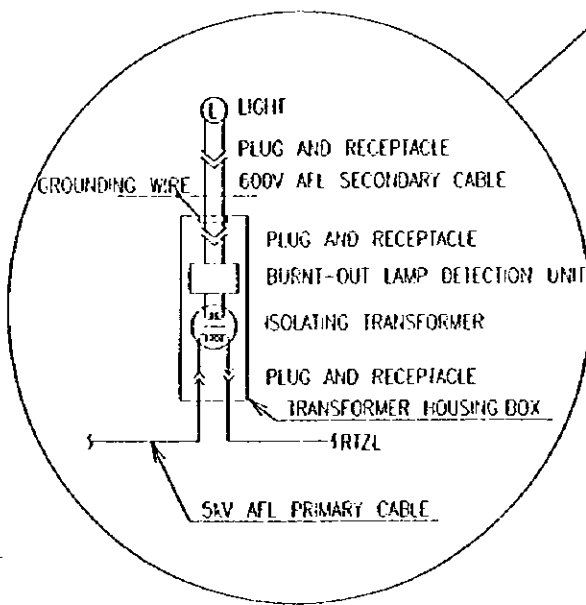
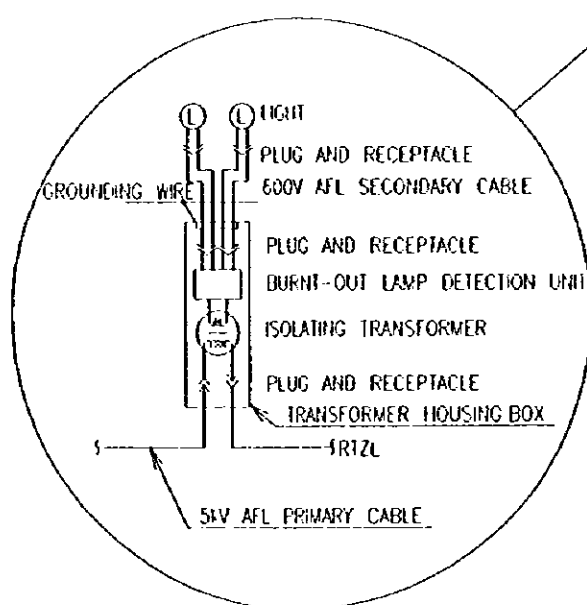
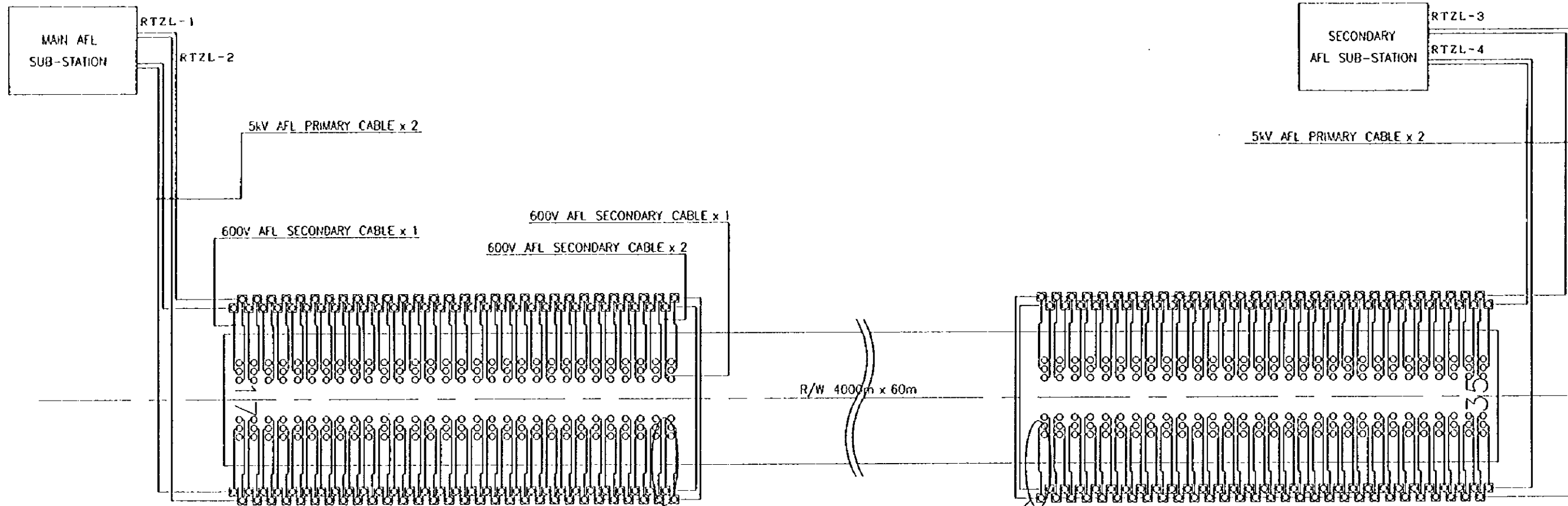


| | | |
|---|--------------|----------|
| PEOPLE'S REPUBLIC OF CHINA | | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 | |
| TYPICAL INSTALLATION PLAN OF RCL | | |
| SCALE | NON SCALE | DWG2-L12 |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | |



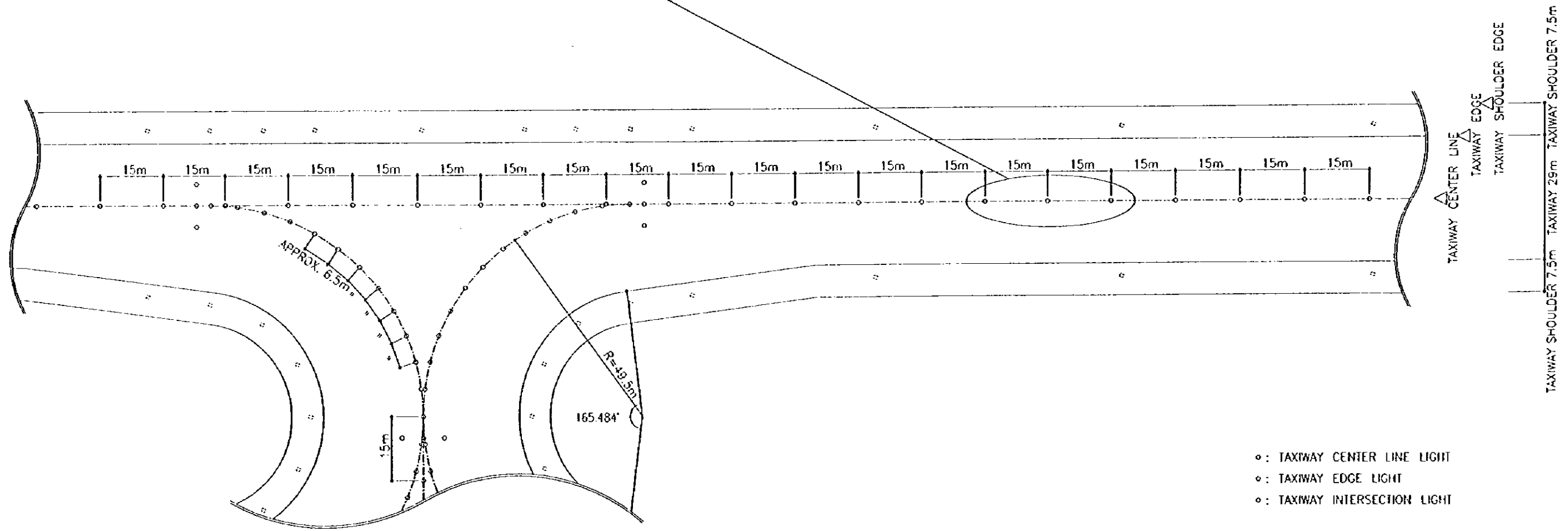
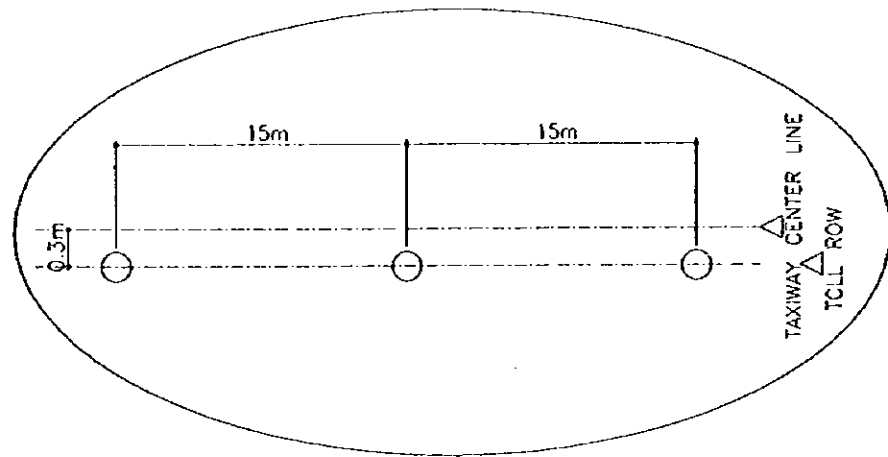
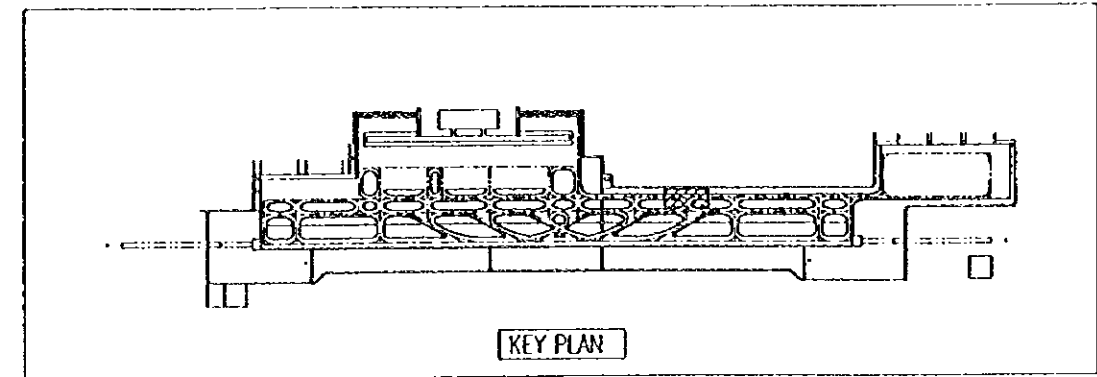
- : RUNWAY TOUCHDOWN ZONE LIGHT
- ◐ : PRECISION APPROACH LIGHTING SYSTEM

| | | |
|---|-----------|--------------|
| PEOPLE'S REPUBLIC OF CHINA | | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | | JANUARY 1997 |
| LAYOUT OF RIZL | | |
| SCALE | NON SCALE | DWG2-L13 |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | |



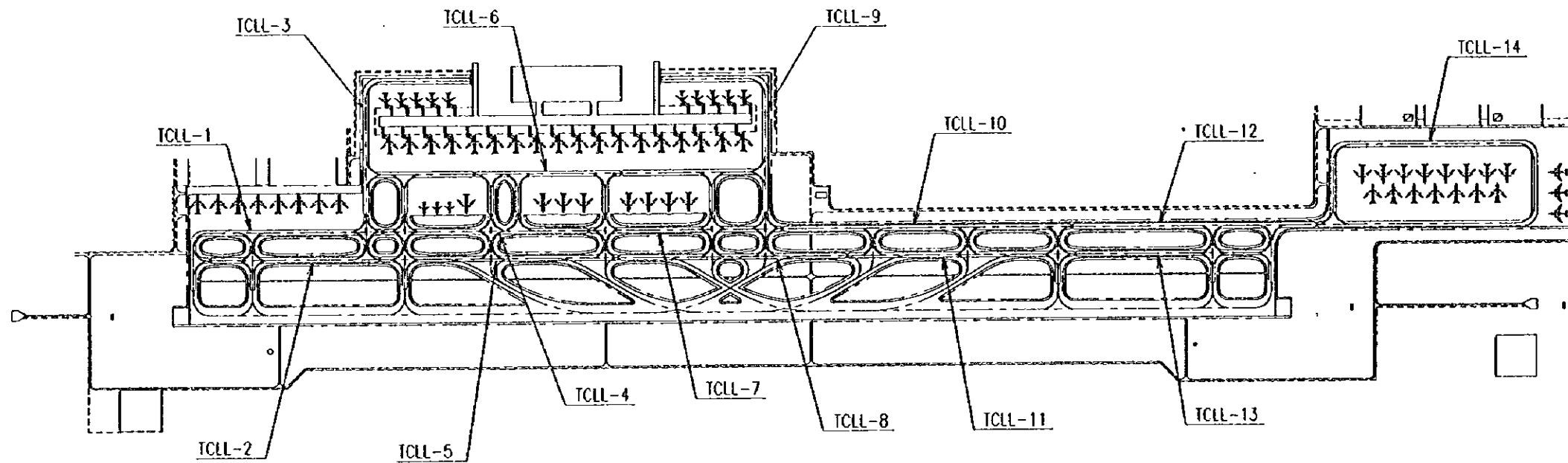
○ : RUNWAY TOUCHDOWN ZONE LIGHT
 □ : TRANSFORMER HOUSING BOX

| | | |
|---|--------------|---------|
| PEOPLE'S REPUBLIC OF CHINA | | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 | |
| WIRING DIAGRAM OF RTZL | | |
| SCALE | NO SCALE | DWG2-E7 |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | |



- : TAXIWAY CENTER LINE LIGHT
- : TAXIWAY EDGE LIGHT
- : TAXIWAY INTERSECTION LIGHT

| | |
|---|--------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 |
| LAYOUT OF TCLL | |
| SCALE | 1:1000 |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



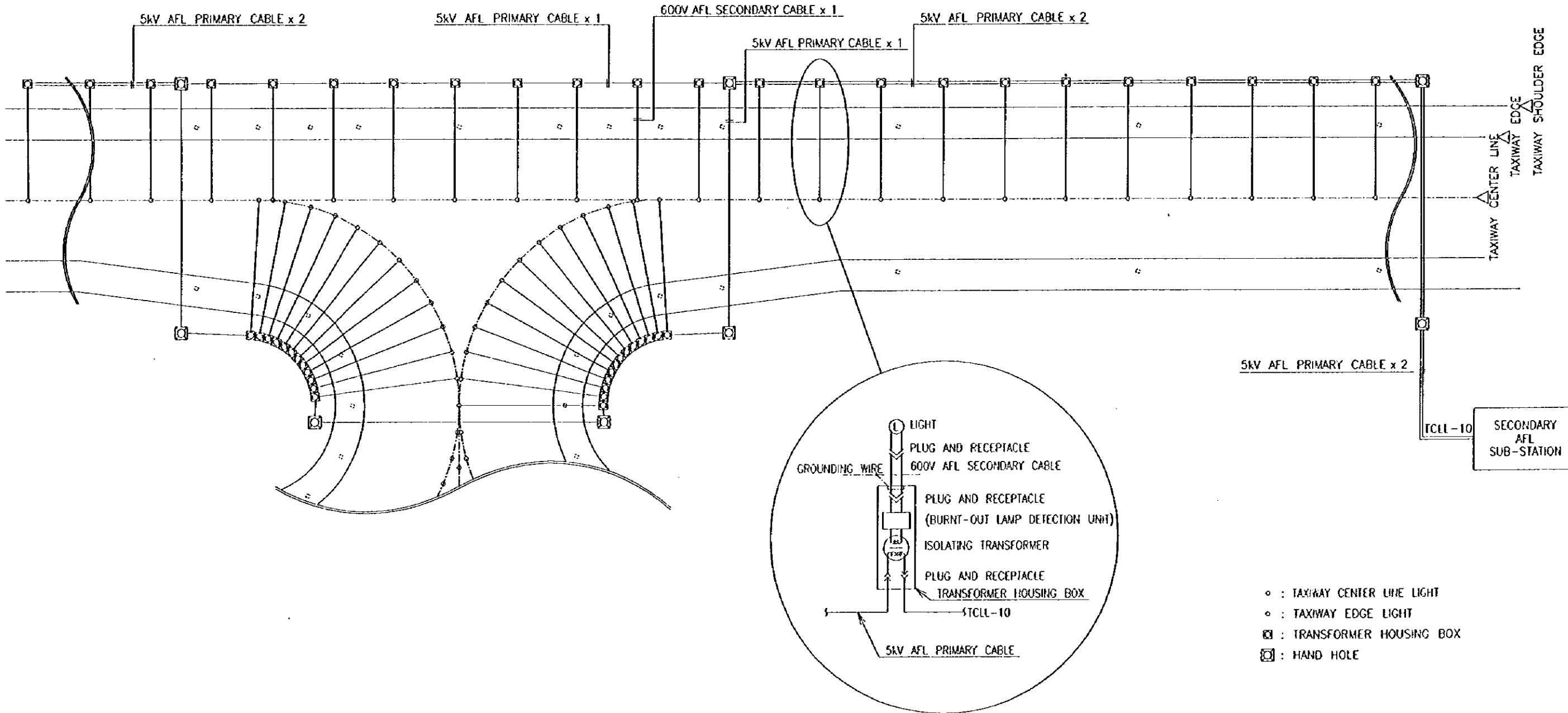
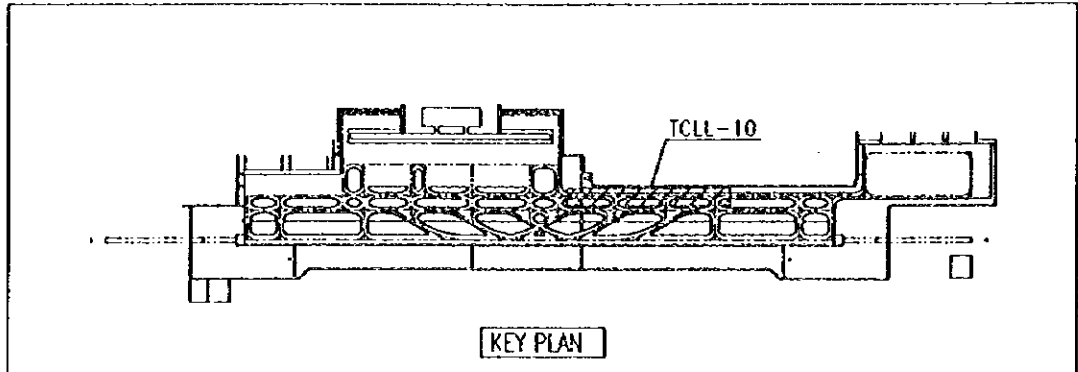
FROM MAIN AFL SUB-STATION
(R/W 17)

TOLL-1
TOLL-2
TOLL-3
TOLL-4
TOLL-5
TOLL-6
TOLL-7

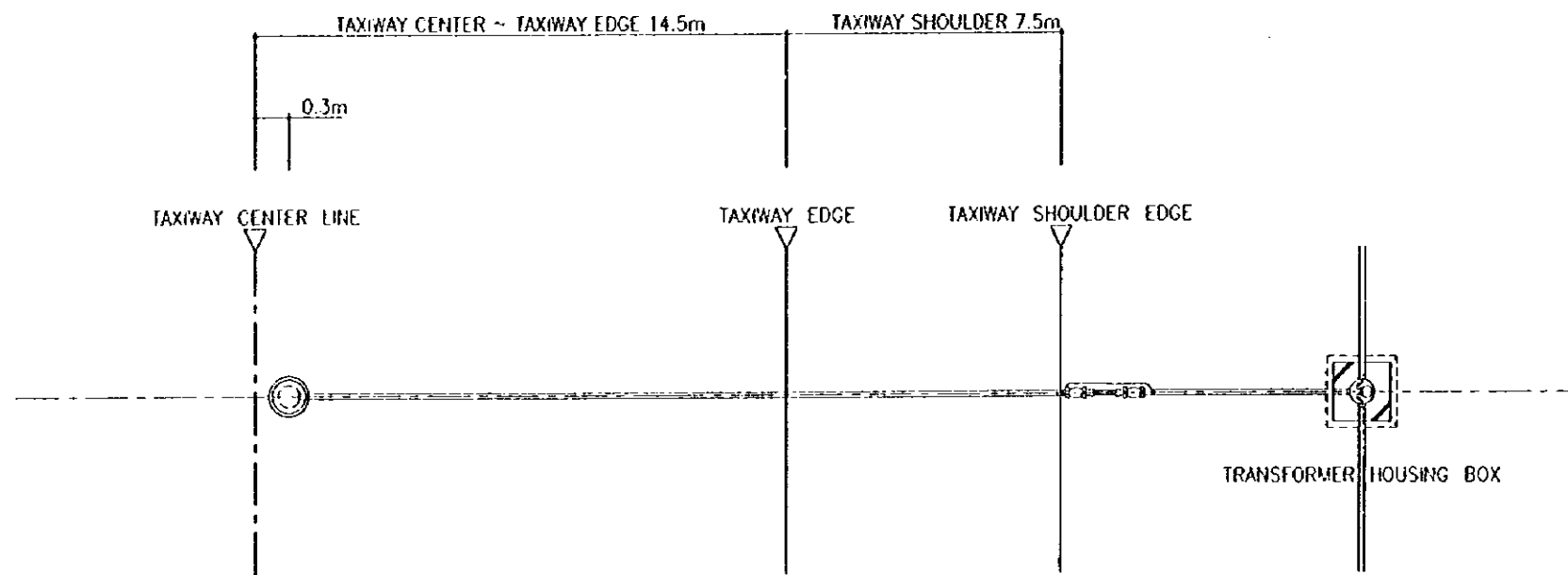
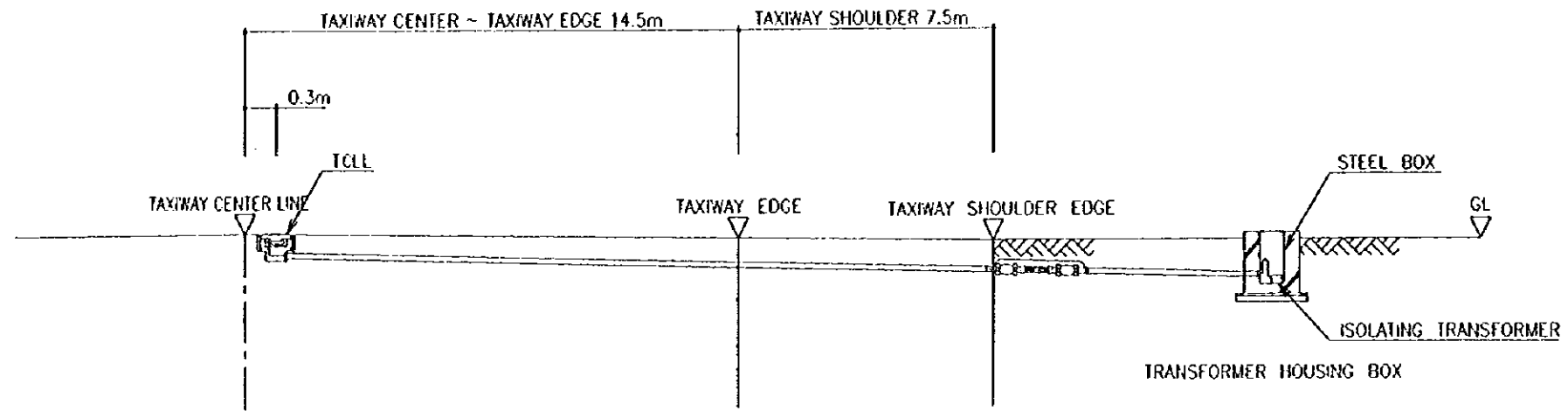
FROM SECONDARY AFL SUB-STATION
(R/W 35)

TOLL-8
TOLL-9
TOLL-10
TOLL-11
TOLL-12
TOLL-13
TOLL-14

| | |
|---|----------------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 |
| CIRCUIT SEGMENT OF TOLL | |
| SCALE | 0 10 20 30m DWG2-L15 |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |

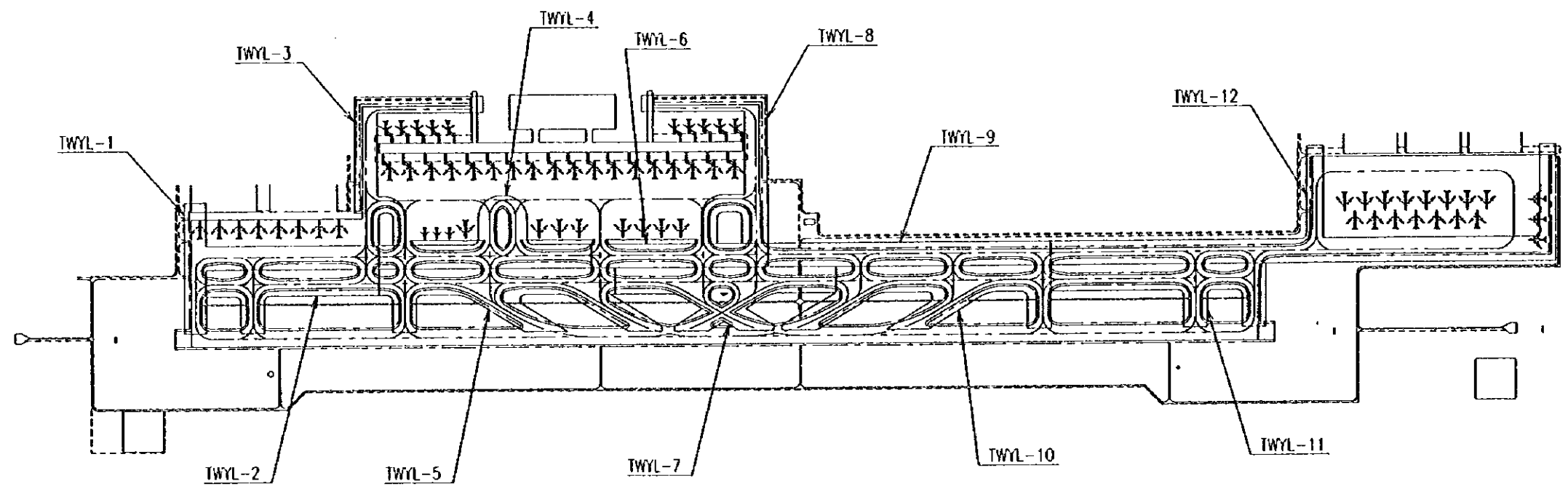


| | | |
|---|--------------|---------|
| PEOPLE'S REPUBLIC OF CHINA | | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 | |
| WIRING DIAGRAM OF TCLL | | |
| SCALE | NON SCALE | DWC2-E8 |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | |



NOTE : NOT APPLICABLE WHEN THE DISTANCE BETWEEN LIGHTING FIXTURES AND THE OUTER GREEN AREA IS INAPPROPRIATELY LONG.

| | | |
|---|--------------|----------|
| PEOPLE'S REPUBLIC OF CHINA | | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 | |
| TYPICAL INSTALLATION PLAN OF TOLL | | |
| SCALE | NON SCALE | DWG2-L16 |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | |



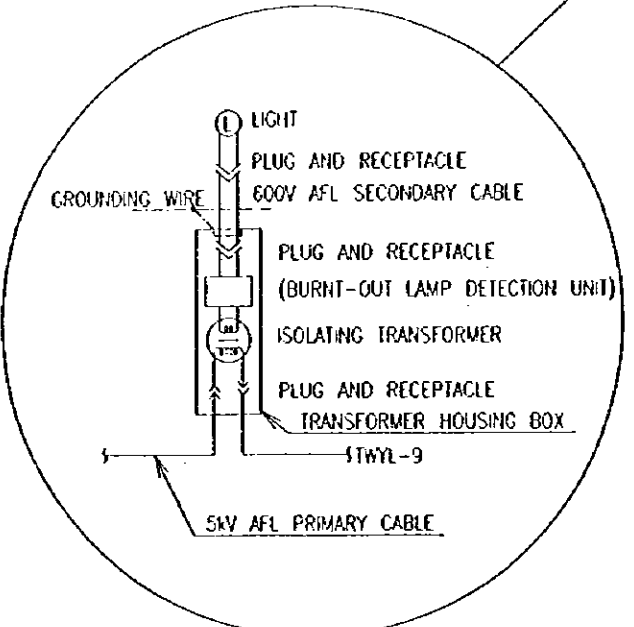
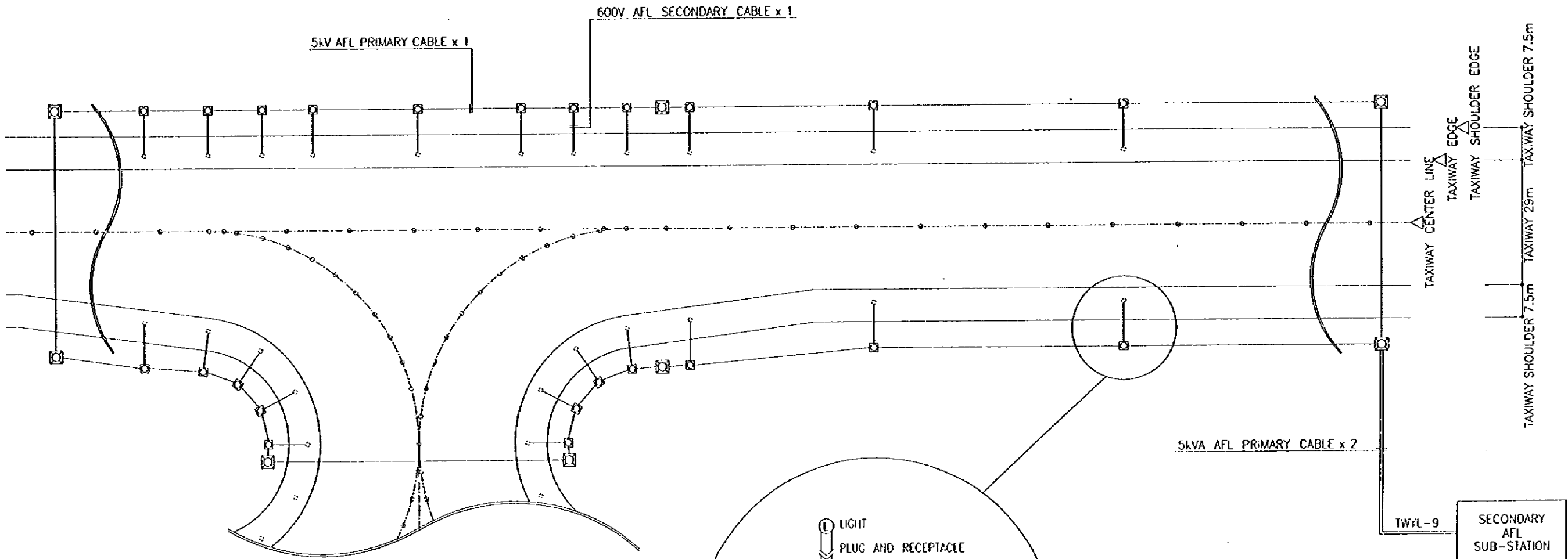
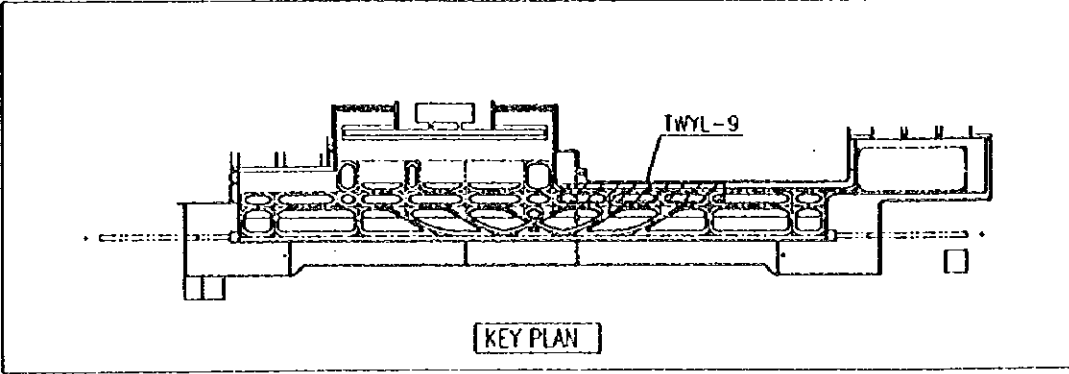
FROM MAIN AFL SUB-STATION
(R/W 17)

TWYL-1
TWYL-2
TWYL-3
TWYL-4
TWYL-5
TWYL-6

FROM SECONDARY AFL SUB-STATION
(R/W 35)

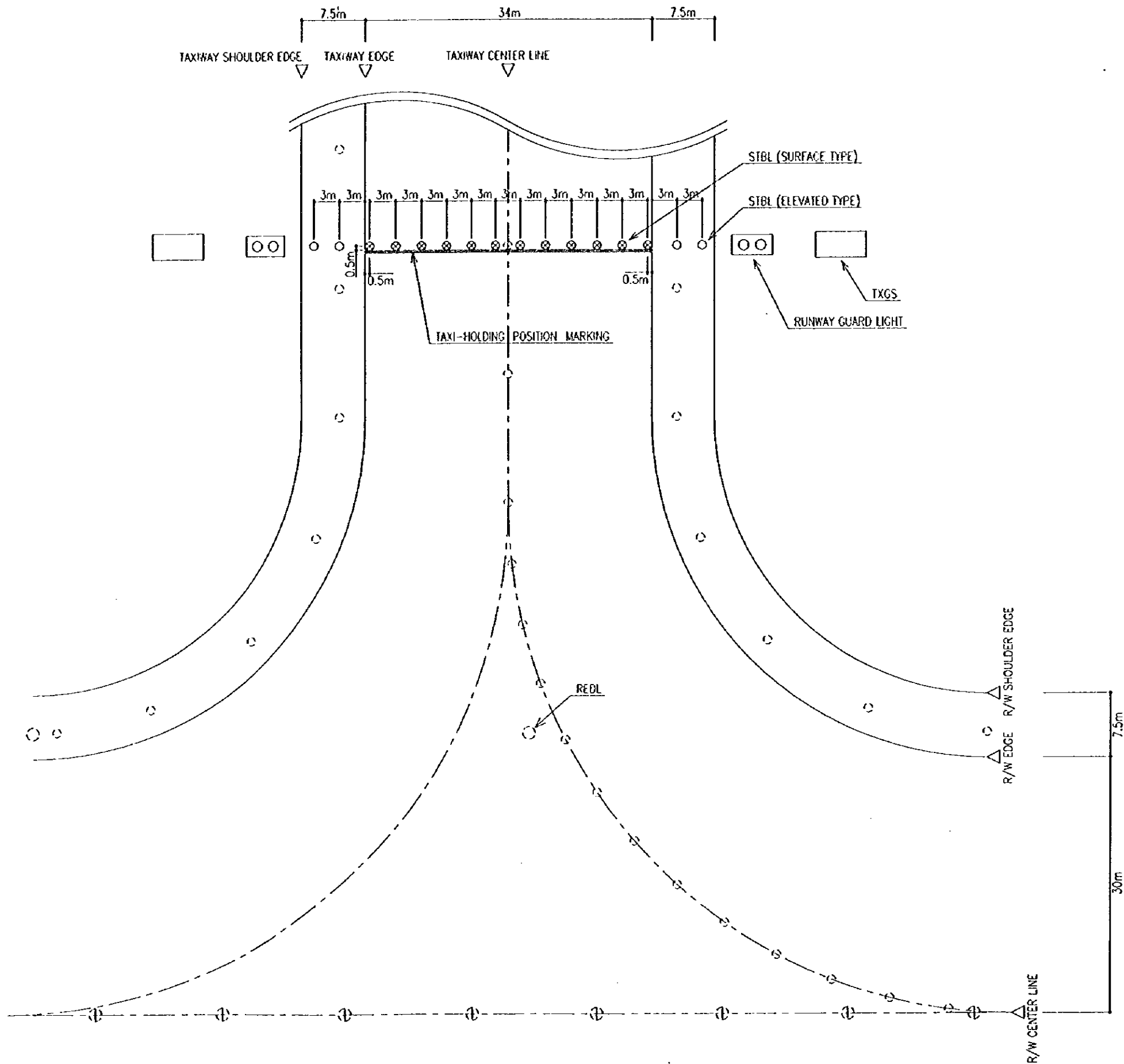
TWYL-7
TWYL-8
TWYL-9
TWYL-10
TWYL-11
TWYL-12

| | |
|---|--------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 |
| CIRCUIT SEGMENT OF TWYL | |
| SCALE | 1:1000 |
| DWG2-L17 | |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



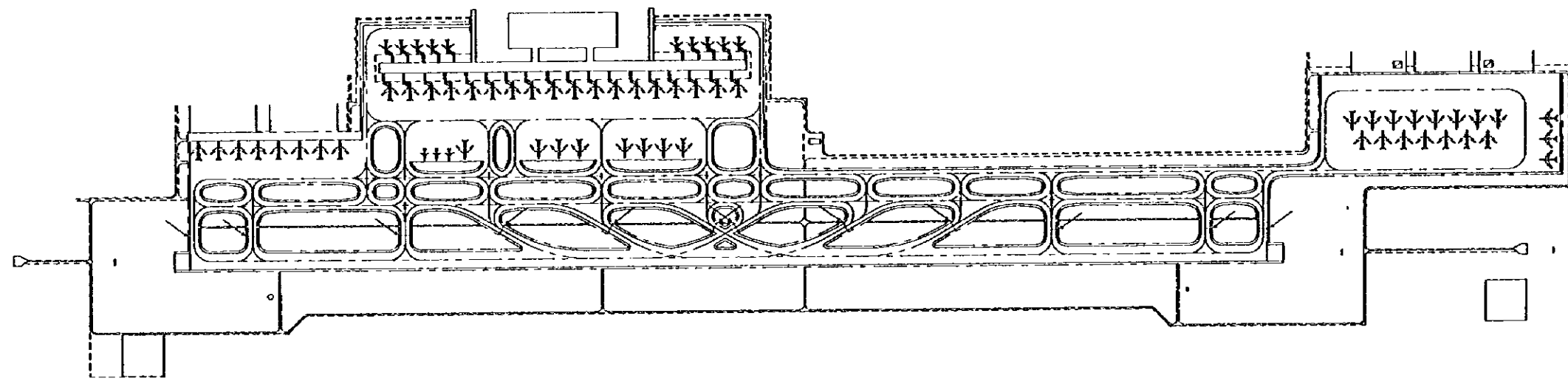
- : TAXIWAY CENTER LINE LIGHT
- : TAXIWAY EDGE LIGHT
- ☐ : TRANSFORMER HOUSING BOX
- ☐ : HAND HOLE

| | | |
|---|--------------|---------|
| PEOPLE'S REPUBLIC OF CHINA | | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 | |
| WIRING DIAGRAM OF TWYL | | |
| SCALE | NON SCALE | DWG2-E9 |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | |



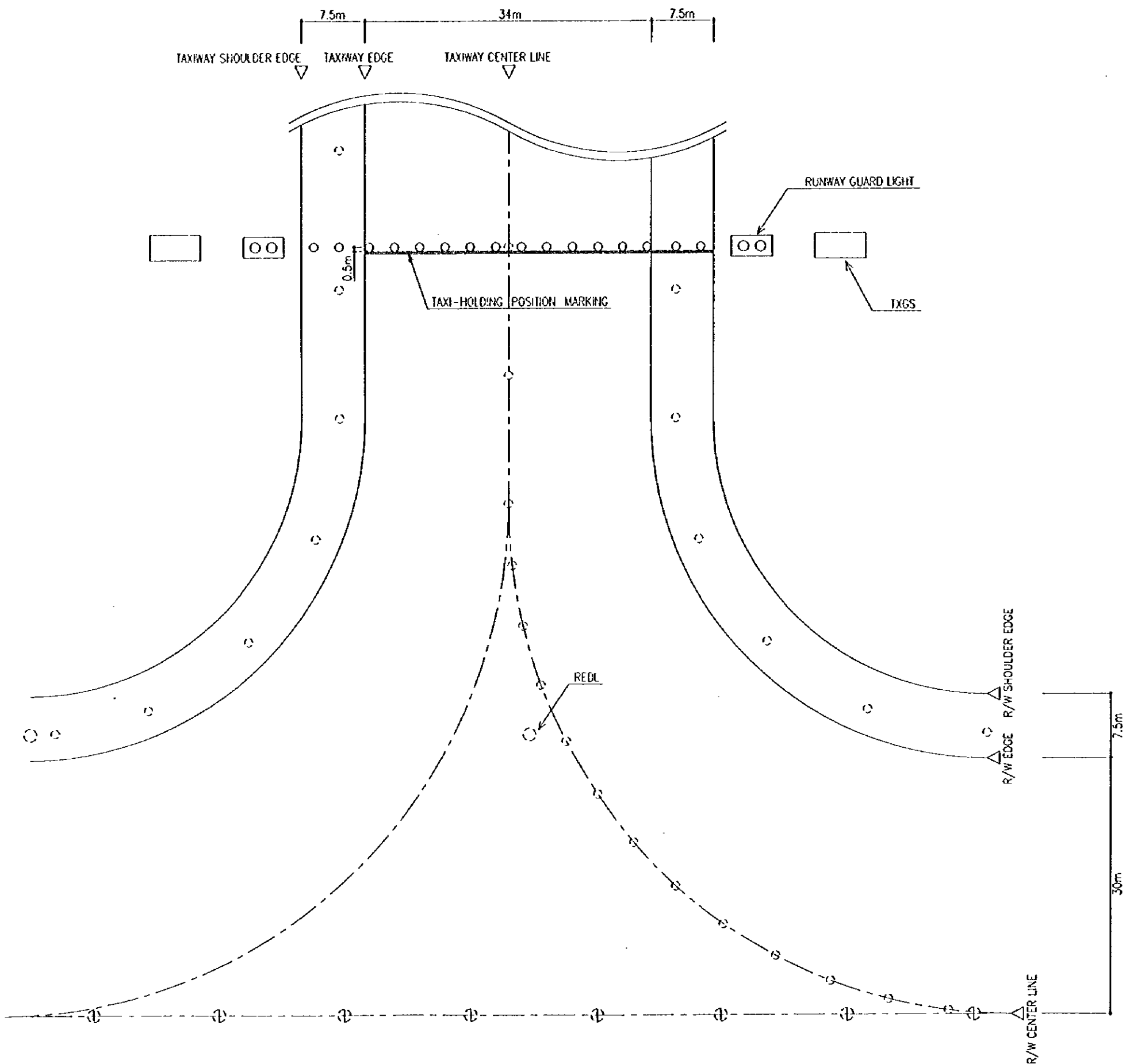
- ⊗ : STOP BAR LIGHT (SURFACE TYPE)
- : STOP BAR LIGHT (ELEVATED TYPE)
- ⊖ : RUNWAY GUARD LIGHT
- : TAXIWAY GUIDANCE SIGN
- : TAXIWAY CENTER LINE LIGHT
- : TAXIWAY EDGE LIGHT
- : RUNWAY EDGE LIGHT
- : RUNWAY CENTER LINE LIGHT

| | |
|---|--------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 |
| LAYOUT OF STBL | |
| SCALE 1:32 | DWG2-L18 |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



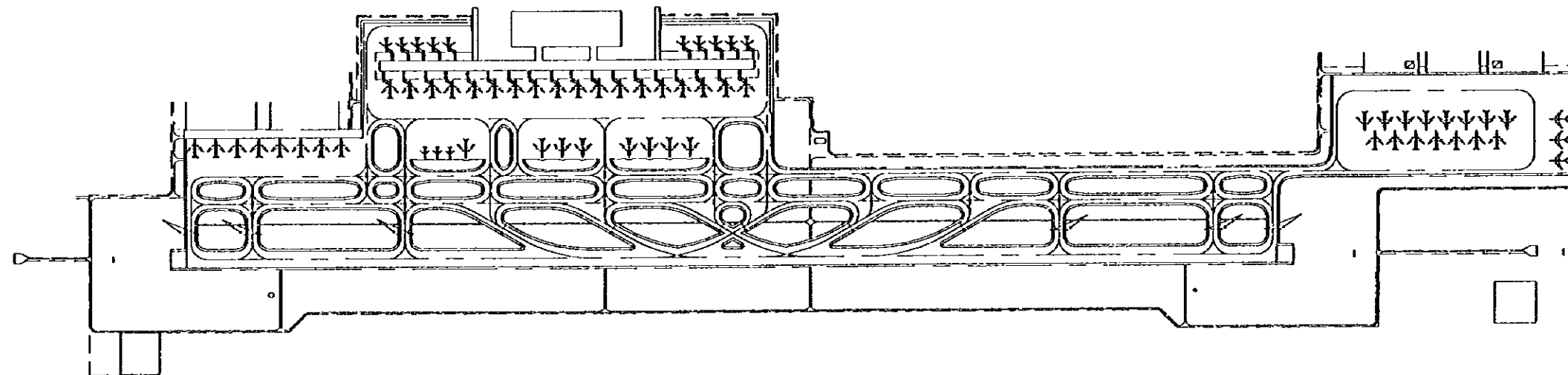
— : POSITION OF STOP BAR

| | |
|---|--------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 |
| DISPOSITION PLAN OF STBL | |
| SCALE | 1:500 |
| CNG2-L19 | |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



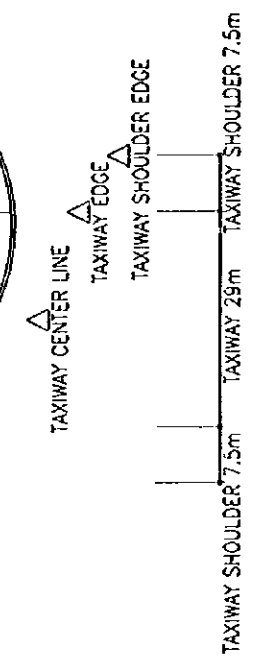
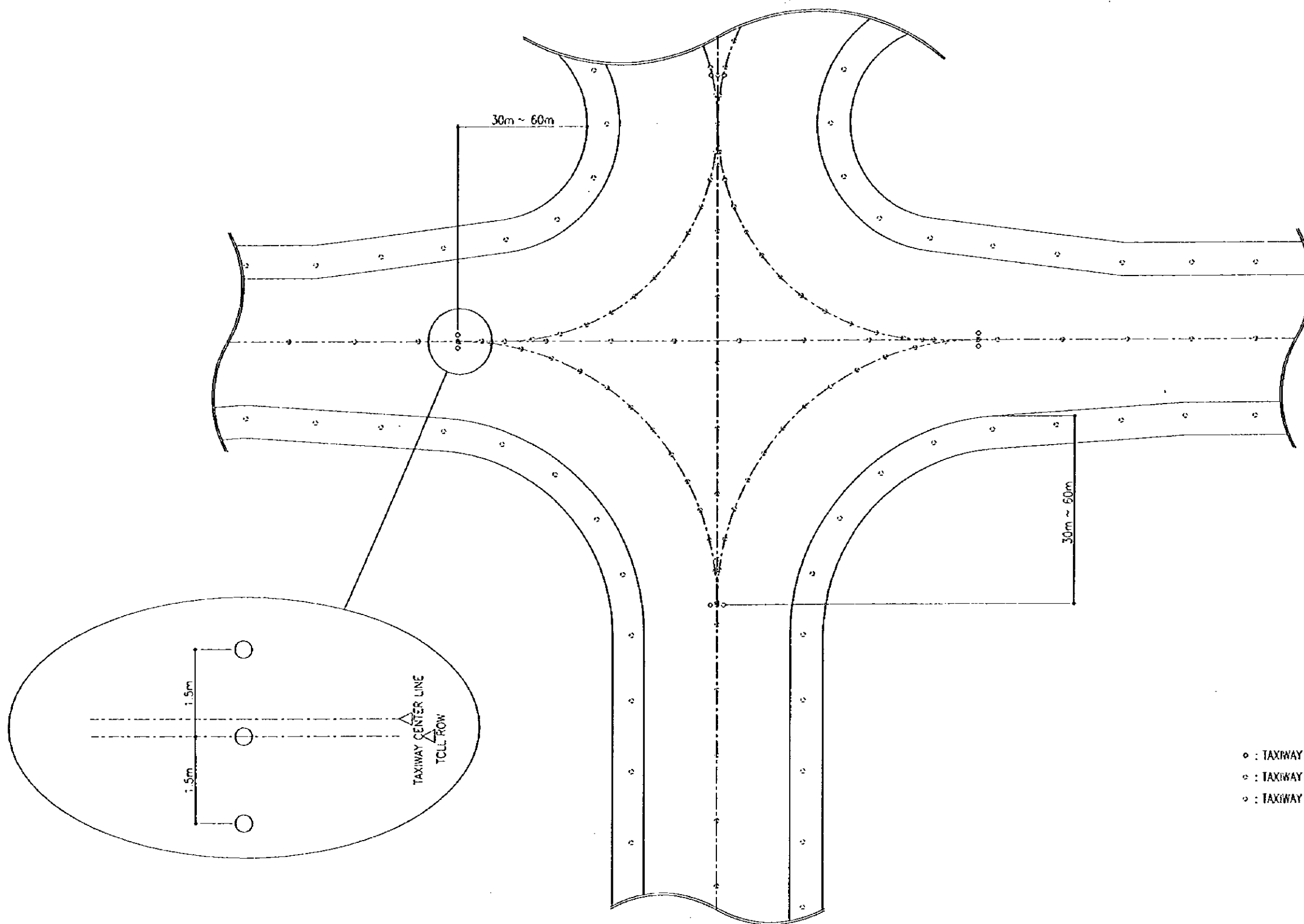
- ○ : RUNWAY GUARD LIGHT
- : STOP BAR LIGHT
- : TAXIING GUIDANCE SIGN
- : TAXIWAY CENTER LINE LIGHT
- : TAXIWAY EDGE LIGHT
- : RUNWAY EDGE LIGHT
- : RUNWAY CENTER LINE LIGHT

| | |
|---|--------------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 |
| LAYOUT OF RUNWAY GUARD LIGHT | |
| SCALE | 1:250 1:500 1:1000 |
| DWG2-L20 | |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



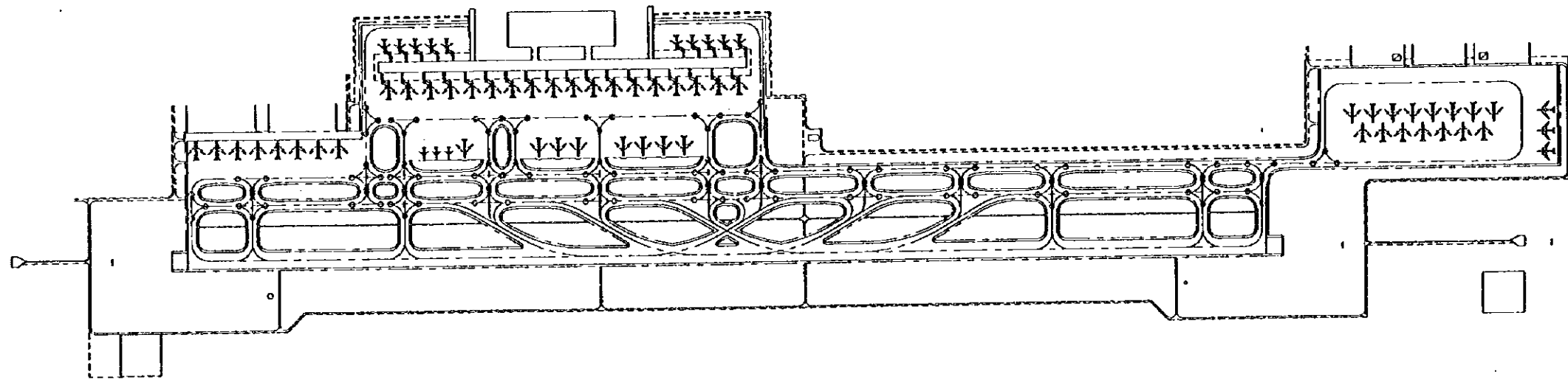
∟ : POSITION OF RUNWAY GUARD LIGHT

| | |
|---|--------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 |
| DISPOSITION PLAN OF RUNWAY GUARD LIGHTS | |
| SCALE | 1:2000 |
| DWG2-L21 | |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



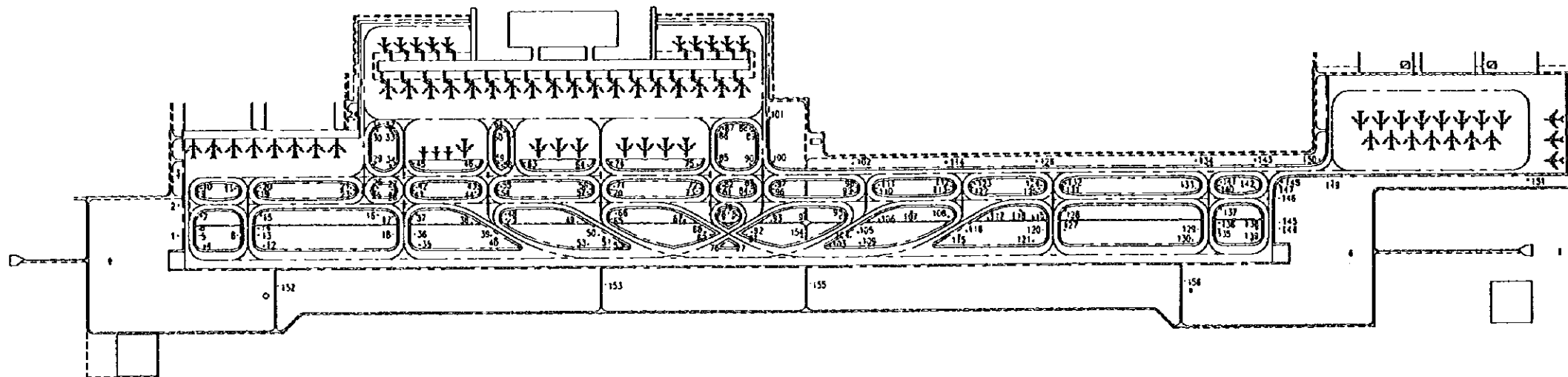
- : TAXIWAY INTERSECTION LIGHT
- : TAXIWAY CENTER LINE LIGHT
- : TAXIWAY EDGE LIGHT

| | |
|---|--------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 |
| LAYOUT OF TSL | |
| SCALE | DWG2-L22 |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



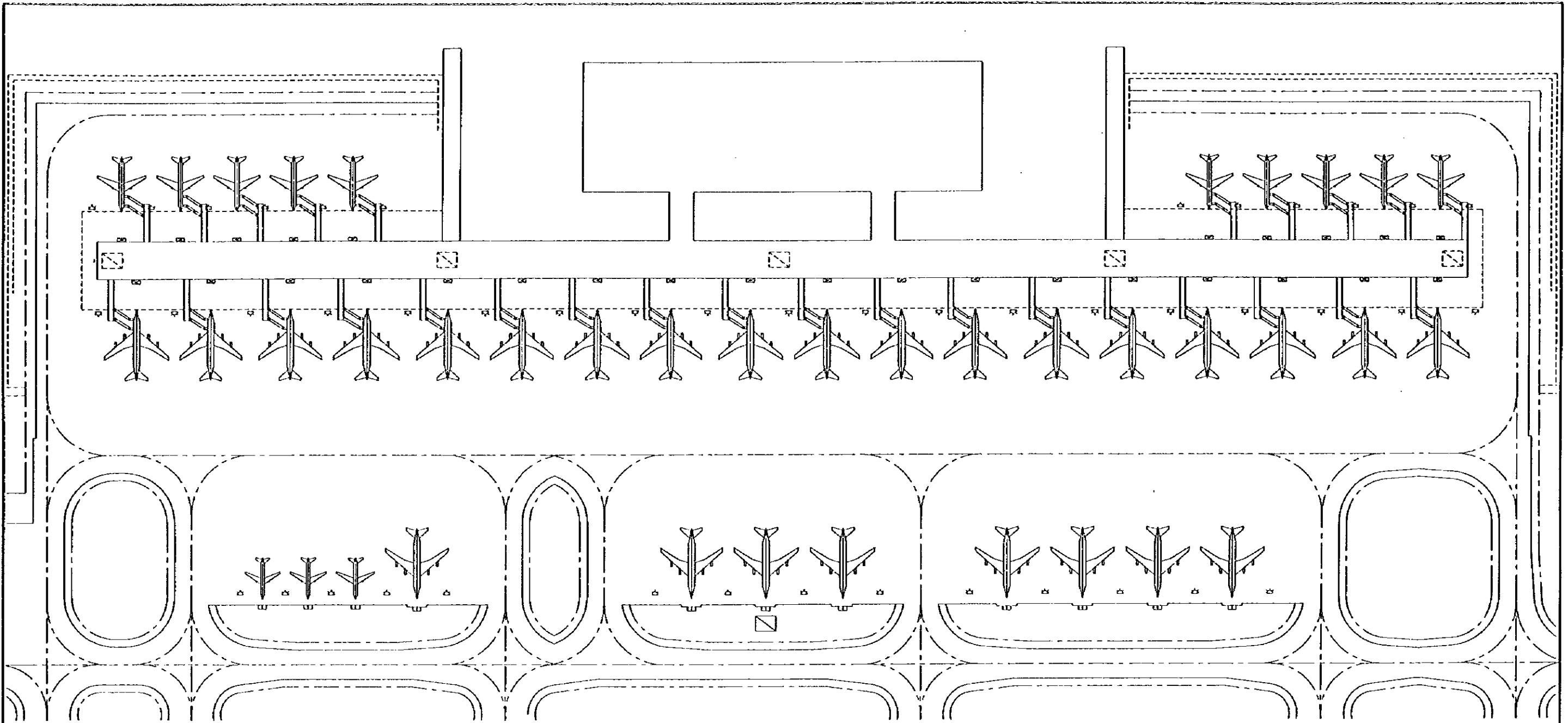
○ : TAXIWAY INTERSECTION LIGHT

| | |
|---|--------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 |
| DISPOSITION PLAN OF TSL | |
| SCALE | 1:1000 |
| DWC2-L23 | |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



| TXGS | NUMBER OF LETTER | TXGS | NUMBER OF LETTER | TXGS | NUMBER OF LETTER | TXGS | NUMBER OF LETTER | TXGS | NUMBER OF LETTER | TXGS | NUMBER OF LETTER | TXGS | NUMBER OF LETTER | TXGS | NUMBER OF LETTER |
|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|
| 1 | 6 | 21 | 9 | 41 | 4 | 61 | 4 | 81 | 5 | 101 | 6 | 121 | 2 | 141 | 3 |
| 2 | 3 | 22 | 5 | 42 | 6 | 62 | 5 | 82 | 7 | 102 | 4 | 122 | 5 | 142 | 8 |
| 3 | 3 | 23 | 4 | 43 | 9 | 63 | 5 | 83 | 9 | 103 | 3 | 123 | 4 | 143 | 6 |
| 4 | 2 | 24 | 6 | 44 | 4 | 64 | 7 | 84 | 4 | 104 | 7 | 124 | 4 | 144 | 5 |
| 5 | 6 | 25 | 5 | 45 | 8 | 65 | 7 | 85 | 9 | 105 | 9 | 125 | 4 | 145 | 3 |
| 6 | 3 | 26 | 9 | 46 | 7 | 66 | 4 | 86 | 5 | 106 | 5 | 126 | 3 | 146 | 3 |
| 7 | 8 | 27 | 8 | 47 | 7 | 67 | 5 | 87 | 4 | 107 | 4 | 127 | 6 | 147 | 4 |
| 8 | 6 | 28 | 8 | 48 | 4 | 68 | 9 | 88 | 6 | 108 | 7 | 128 | 4 | 148 | 5 |
| 9 | 4 | 29 | 5 | 49 | 5 | 69 | 7 | 89 | 6 | 109 | 3 | 129 | 6 | 149 | 4 |
| 10 | 3 | 30 | 6 | 50 | 7 | 70 | 5 | 90 | 7 | 110 | 5 | 130 | 2 | 150 | 5 |
| 11 | 3 | 31 | 6 | 51 | 9 | 71 | 7 | 91 | 7 | 111 | 4 | 131 | 4 | 151 | 3 |
| 12 | 2 | 32 | 4 | 52 | 3 | 72 | 9 | 92 | 9 | 112 | 5 | 132 | 3 | 152 | 4 |
| 13 | 6 | 33 | 5 | 53 | 3 | 73 | 4 | 93 | 5 | 113 | 4 | 133 | 4 | 153 | 4 |
| 14 | 3 | 34 | 6 | 54 | 5 | 74 | 9 | 94 | 4 | 114 | 4 | 134 | 3 | 154 | 4 |
| 15 | 4 | 35 | 2 | 55 | 7 | 75 | 7 | 95 | 7 | 115 | 7 | 135 | 6 | 155 | 4 |
| 16 | 6 | 36 | 6 | 56 | 9 | 76 | 3 | 96 | 5 | 116 | 9 | 136 | 3 | 156 | 4 |
| 17 | 8 | 37 | 8 | 57 | 4 | 77 | 3 | 97 | 7 | 117 | 5 | 137 | 4 | | |
| 18 | 6 | 38 | 5 | 58 | 4 | 78 | 7 | 98 | 5 | 118 | 4 | 138 | 6 | | |
| 19 | 4 | 39 | 9 | 59 | 9 | 79 | 4 | 99 | 4 | 119 | 4 | 139 | 2 | | |
| 20 | 3 | 40 | 7 | 60 | 5 | 80 | 7 | 100 | 9 | 120 | 6 | 140 | 4 | | |

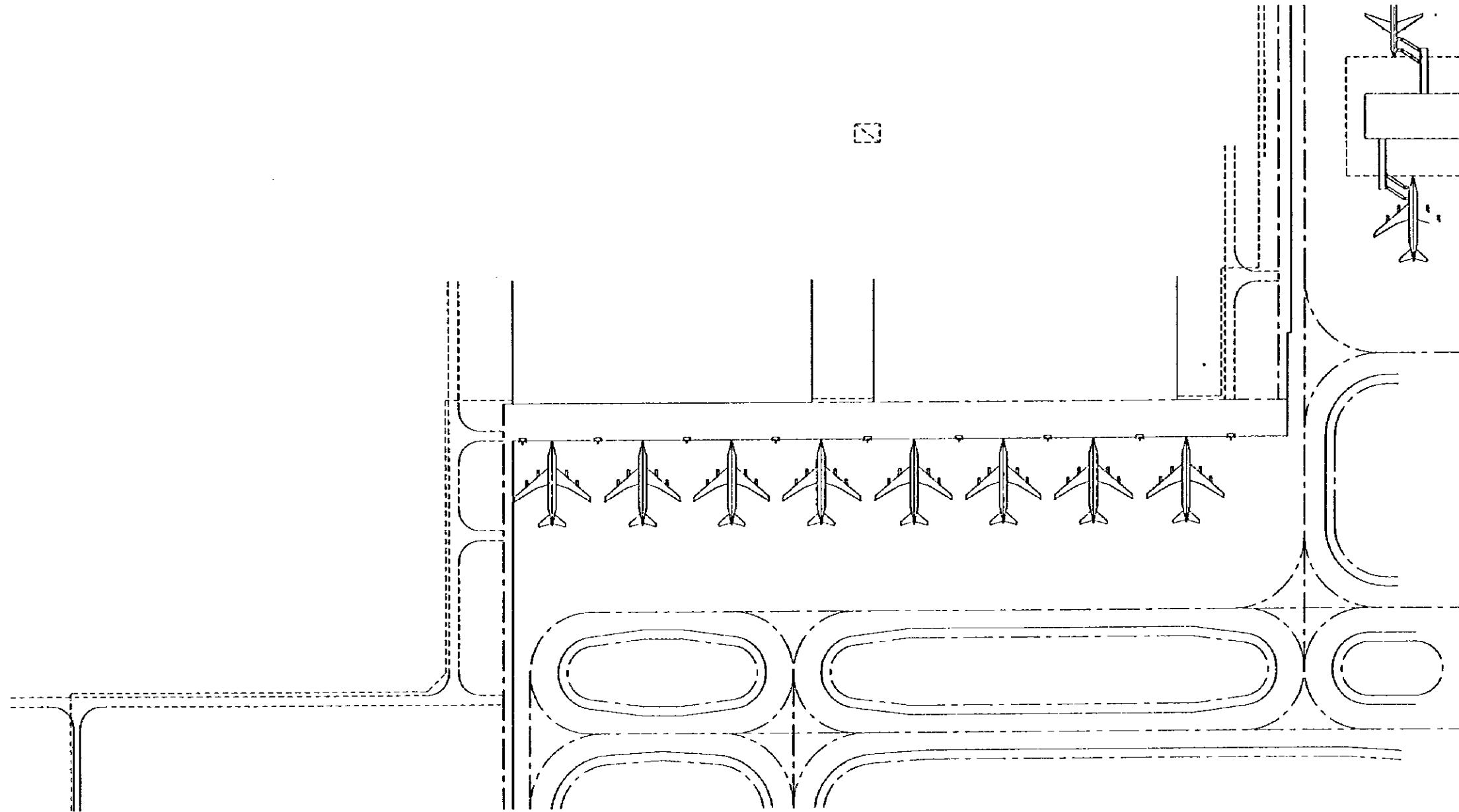
| | |
|---|--------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 |
| DISPOSITION PLAN OF TXGS | |
| SCALE | 1:2000 |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |





- ☐ : 10KV SUB-STATION (JAPANESE PORTION)
- ☐ : 10KV SUB-STATION (CHINESE PORTION)
- △ : FLO
- ∞ : VDGS, ASIS
- : ASIS

LAYOUT OF FLO, VDGS AND ASIS
(TERMINAL AREA)

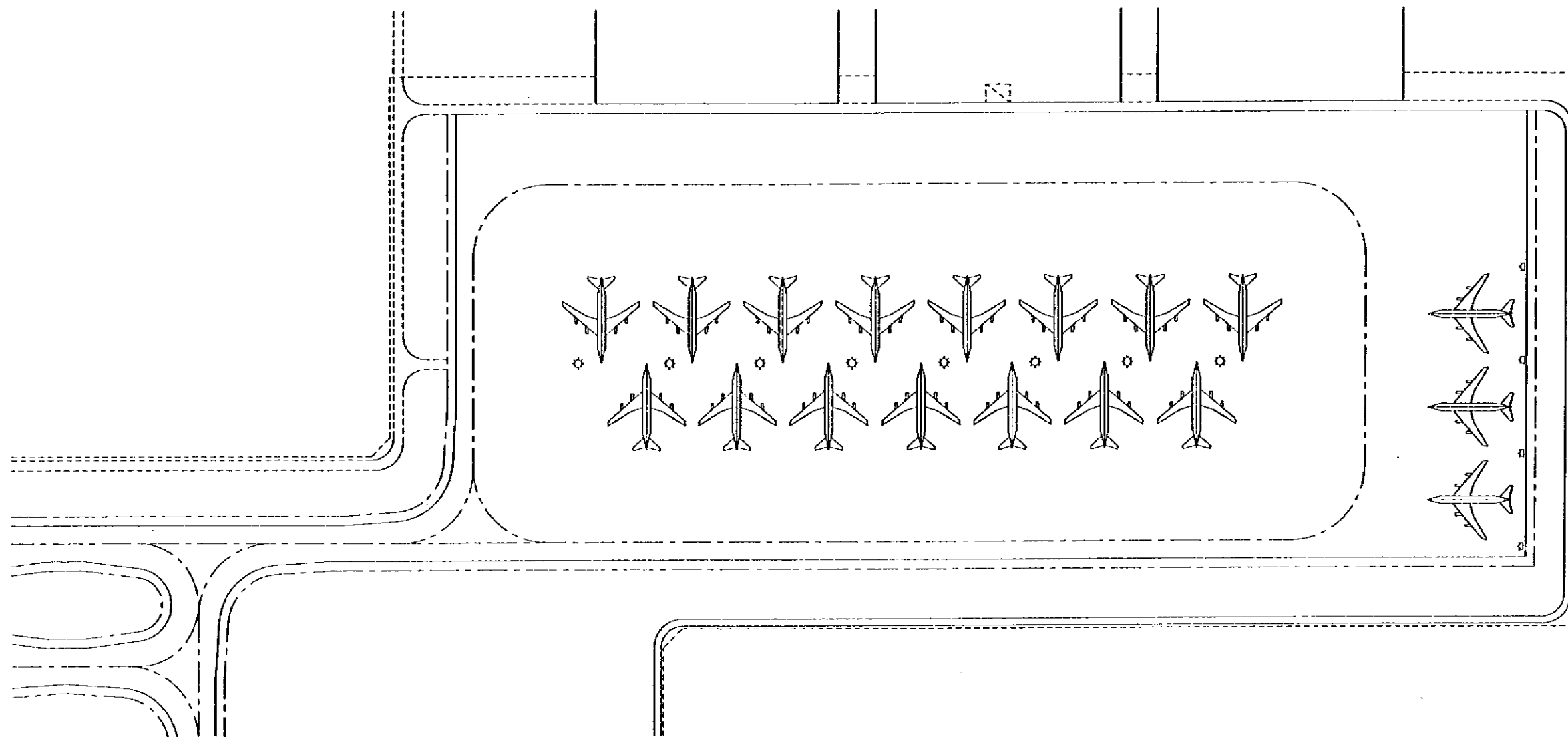
| | |
|---|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 |
| LAYOUT OF FLO, VDGS AND ASIS (1/3) | |
| SCALE 1:200 | DWG2-L25 (1/3) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |





 : 10KV SUB-STATION (CHINESE PORTION)
 : FLO

LAYOUT OF FLO, VDGS AND ASIS
(CARGO AREA)

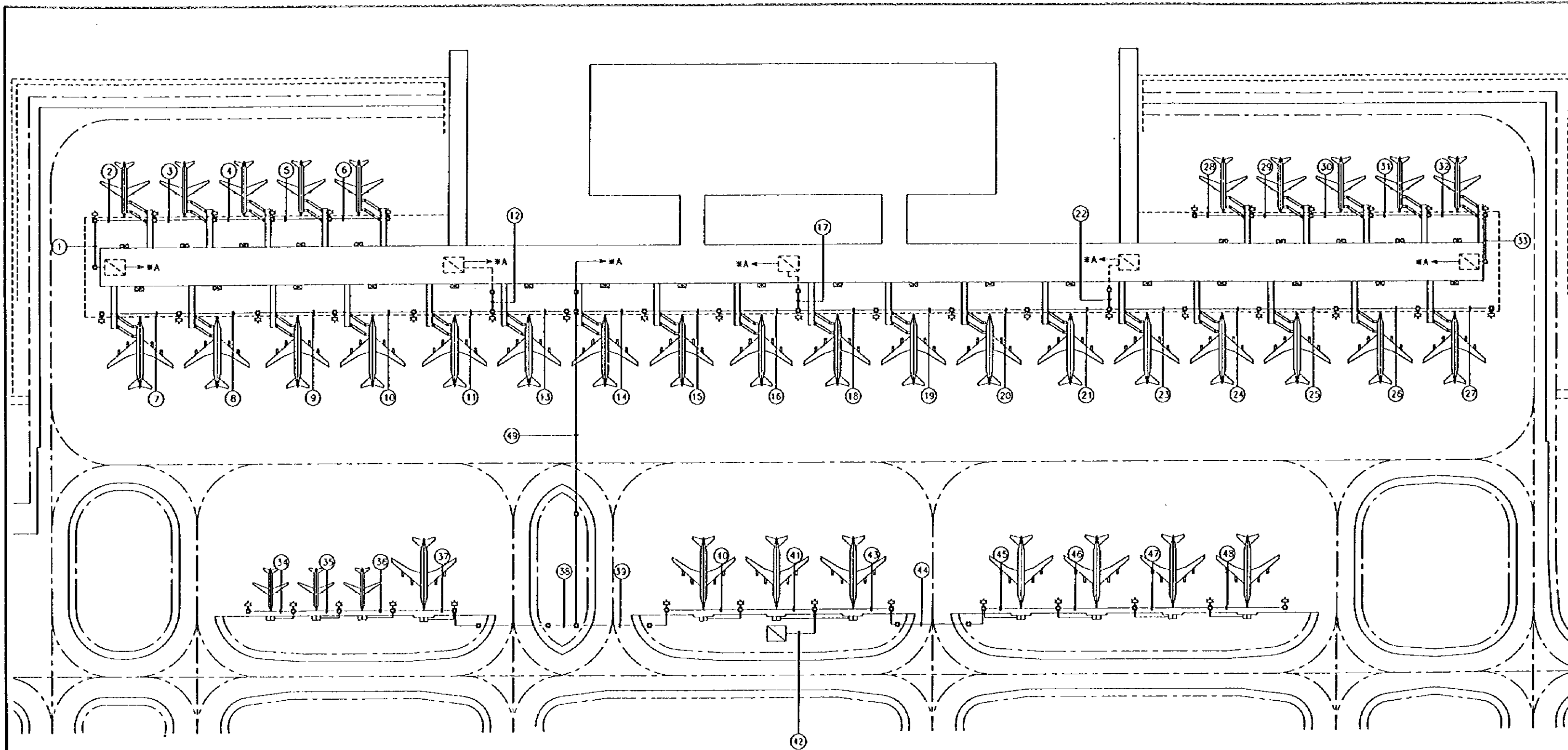
| | |
|---|--------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 |
| LAYOUT OF FLO, VDGS AND ASIS (2/3) | |
| SCALE | 1:1000 |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



 : 10kV SUB-STATION (CHINESE PORTION)
 : FLO

LAYOUT OF FLO, VDGS AND ASIS
(MAINTENANCE AREA)

| | |
|---|--------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 |
| LAYOUT OF FLO, VDGS AND ASIS (3/3) | |
| SCALE | 1:5000 |
| DWG2-125(3/3) | |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



| No. | PIPE SIZE | No. | PIPE SIZE | No. | PIPE SIZE | No. | PIPE SIZE |
|-----|-----------|-----|-----------|-----|------------|-----|-----------|
| 1 | (FEP80)×8 | 16 | (FEP80)×6 | 31 | (FEP80)×7 | 46 | (FEP80)×6 |
| 2 | (FEP80)×7 | 17 | (FEP80)×9 | 32 | (FEP80)×8 | 47 | (FEP80)×4 |
| 3 | (FEP80)×7 | 18 | (FEP80)×7 | 33 | (FEP80)×8 | 48 | (FEP80)×4 |
| 4 | (FEP80)×6 | 19 | (FEP80)×6 | 34 | (FEP80)×4 | 49 | (FEP80)×3 |
| 5 | (FEP80)×5 | 20 | (FEP80)×5 | 35 | (FEP80)×5 | | |
| 6 | (FEP80)×4 | 21 | (FEP80)×3 | 36 | (FEP80)×6 | | |
| 7 | (FEP80)×4 | 22 | (FEP80)×9 | 37 | (FEP80)×7 | | |
| 8 | (FEP80)×5 | 23 | (FEP80)×9 | 38 | (FEP80)×7 | | |
| 9 | (FEP80)×6 | 24 | (FEP80)×8 | 39 | (FEP80)×8 | | |
| 10 | (FEP80)×7 | 25 | (FEP80)×7 | 40 | (FEP80)×9 | | |
| 11 | (FEP80)×8 | 26 | (FEP80)×6 | 41 | (FEP80)×11 | | |
| 12 | (FEP80)×9 | 27 | (FEP80)×5 | 42 | (FEP80)×17 | | |
| 13 | (FEP80)×4 | 28 | (FEP80)×4 | 43 | (FEP80)×9 | | |
| 14 | (FEP80)×4 | 29 | (FEP80)×5 | 44 | (FEP80)×7 | | |
| 15 | (FEP80)×5 | 30 | (FEP80)×6 | 45 | (FEP80)×7 | | |

NOTE : THIS DRAWING INDICATES THE PIPING OUTSIDE OF THE BUILDING AREA. FACILITIES REQUIRED FOR GROUND POWER SYSTEM (400Hz) SHALL NOT BE INCLUDED IN THE WORK CONCERNED HERE-WITH.

SCOPE OF CHINESE PORTION

DESIGN FOR CABLING AND PIPING FROM 10KV SUB-STATION TO THE BOUNDARY (LOCATION FOR MANHOLES 2 METERS DISTANT FORM THE TERMINAL BLD.) OUTSIDE OF THE TERMINAL BLD.

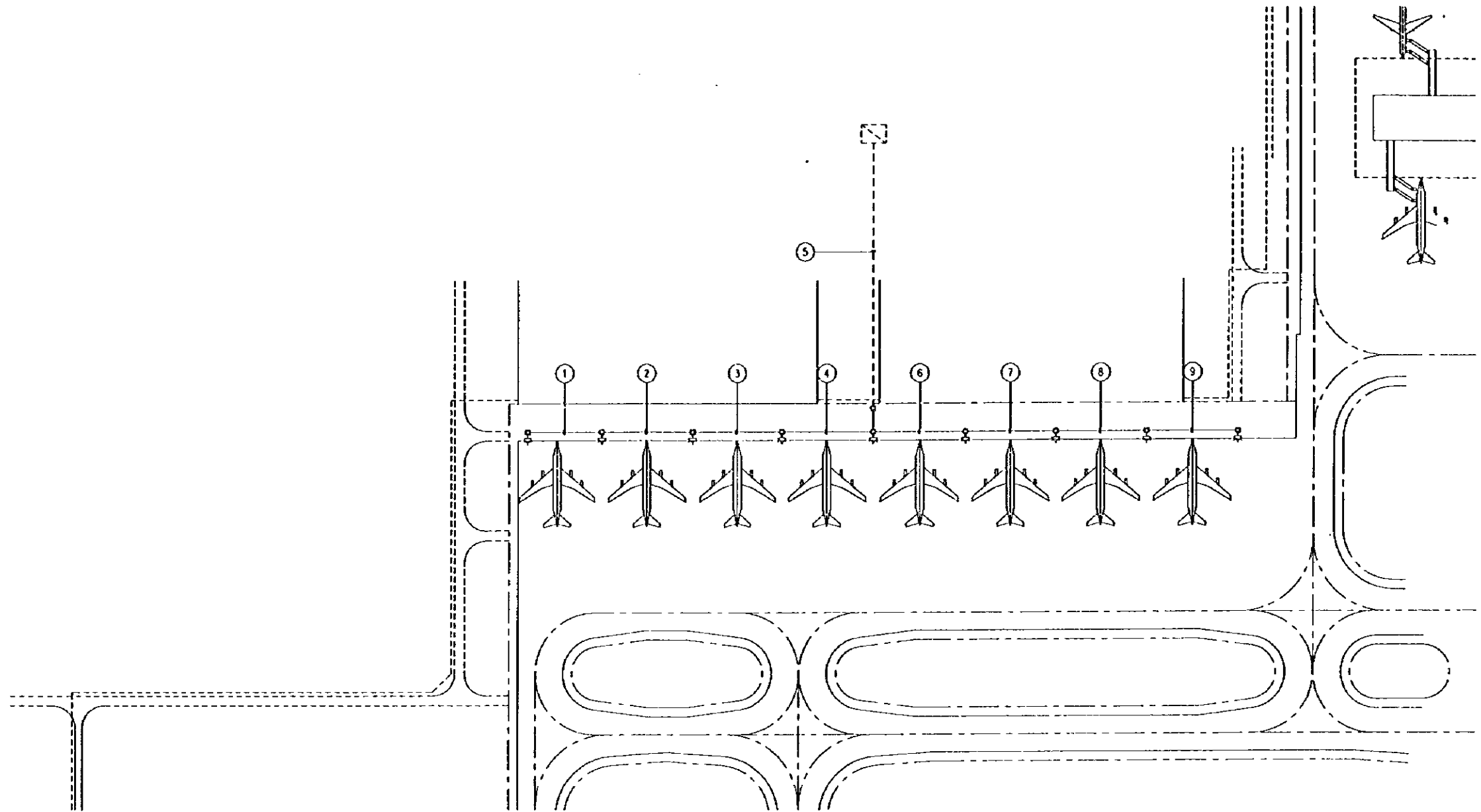
SCOPE OF JAPANESE PORTION

DESIGN FOR CABLING AND PIPING FROM THE BOUNDARY OUTSIDE THE TERMINAL BLD TO MANHOLES ADJACENT TO THE FLO POLES. DESIGN FOR CABLING AND PIPING FROM MANHOLES ADJACENT TO THE FLO POLES TO THE LOAD.

- ☐ : 10KV SUB-STATION (JAPANESE PORTION)
- ☐ : 10KV SUB-STATION (CHINESE PORTION)
- △ : FLO
- ∞ : VDGS, ASIS
- ⊞ : ASIS
- ◻ : HAND HOLE (FOR FLO)
- ★ : CONTROL CABLE (TO GENERAL CONTROL CENTER)

PIPING PLAN FOR FLO (TERMINAL AREA)

| | |
|---|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 |
| PIPING PLAN FOR FLO (1/3) | |
| SCALE 1:100 | DWG2-E10 (1/3) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |

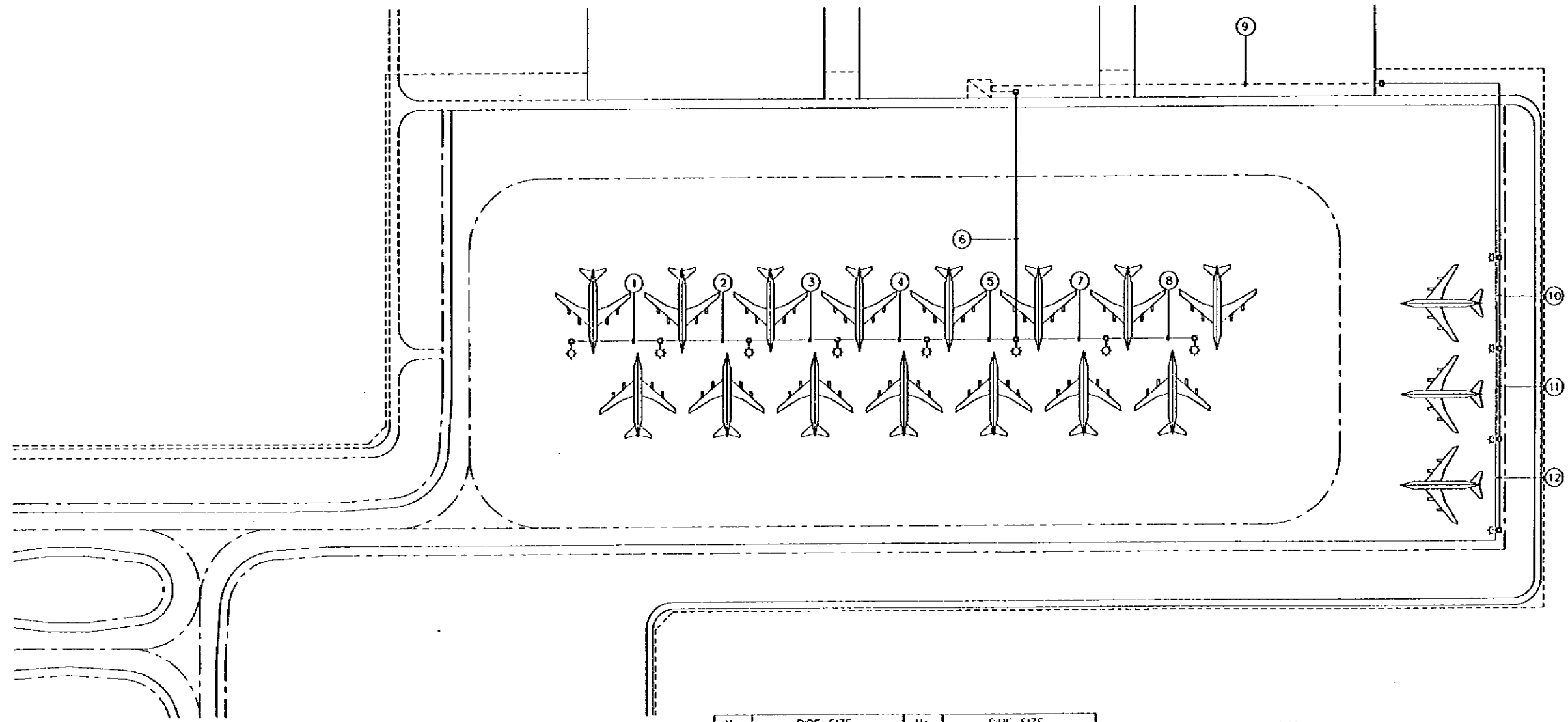


| No | PIPE SIZE |
|----|------------|
| ① | (FEP80)×4 |
| ② | (FEP80)×5 |
| ③ | (FEP80)×6 |
| ④ | (FEP80)×7 |
| ⑤ | (FEP80)×11 |
| ⑥ | (FEP80)×8 |
| ⑦ | (FEP80)×7 |
| ⑧ | (FEP80)×6 |
| ⑨ | (FEP80)×5 |

- ☒ : 10kV SUB-STATION (CHINESE PORTION)
- ☆ : FLO
- : HAND HOLE (FOR FLO)

PIPING PLAN FOR FLO
(CARGO AREA)

| | |
|---|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 |
| PIPING PLAN FOR FLO (2/3) | |
| SCALE 1:500 | DWG2-E10 (2/3) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |

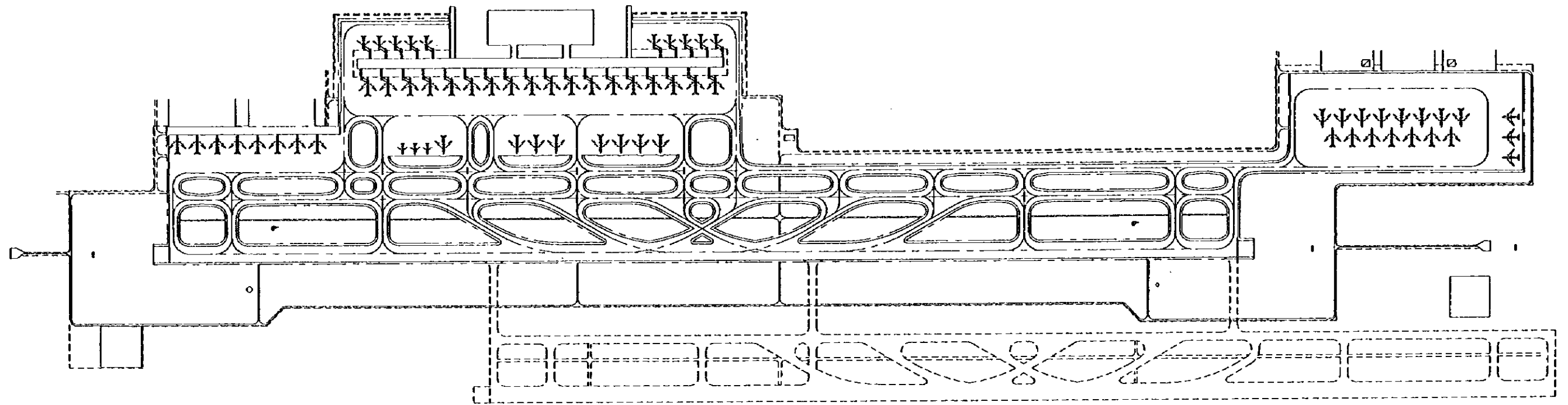


| No. | PIPE SIZE | No. | PIPE SIZE |
|-----|------------|-----|-----------|
| ① | (FEP80)×5 | ⑪ | (FEP80)×5 |
| ② | (FEP80)×7 | ⑫ | (FEP80)×4 |
| ③ | (FEP80)×9 | | |
| ④ | (FEP80)×11 | | |
| ⑤ | (FEP80)×13 | | |
| ⑥ | (FEP80)×18 | | |
| ⑦ | (FEP80)×10 | | |
| ⑧ | (FEP80)×8 | | |
| ⑨ | (FEP80)×6 | | |
| ⑩ | (FEP80)×6 | | |

: 10kV SUB-STATION (CHINESE PORTION)
 : FLO
 : HAND HOLE (FOR FLO)

PIPING PLAN FOR FLO
(MAINTENANCE AREA)

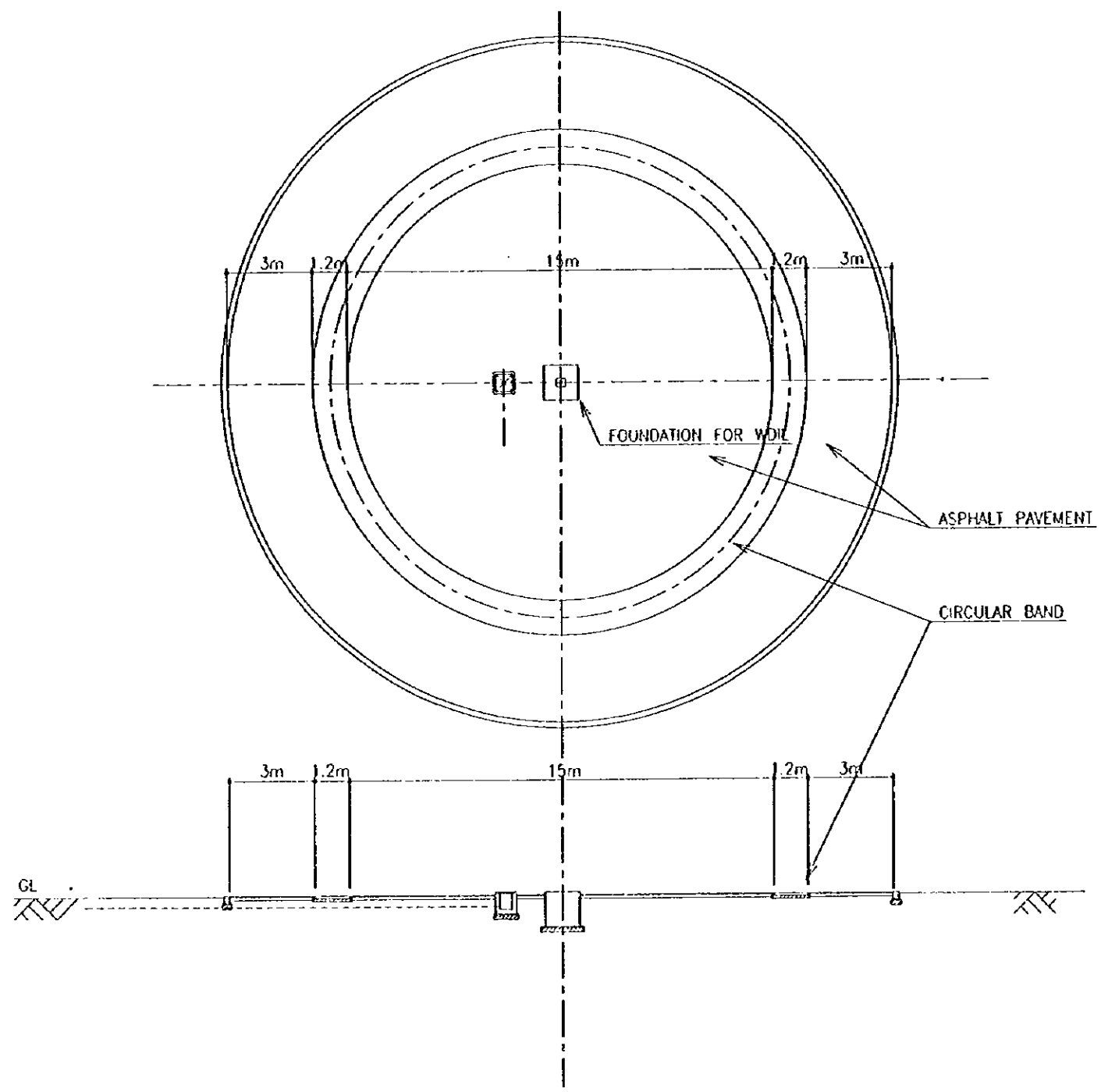
| | |
|---|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 |
| PIPING PLAN FOR FLO (3/3) | |
| SCALE | DWG2-E10 (3/3) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



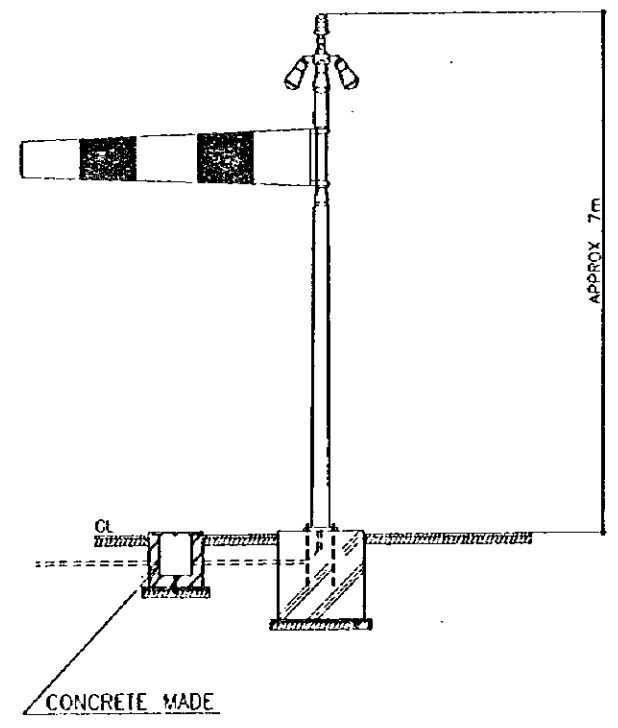
- Ⓧ AERODROME BEACON
- Ⓧ WIND DIRECTION LIGHTS

Ⓧ

| | | |
|---|-----------|--------------|
| PEOPLE'S REPUBLIC OF CHINA | | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | | JANUARY 1997 |
| DISPOSITION PLAN OF ASN AND WDL | | |
| SCALE | NON SCALE | DWG2-L26 |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | |

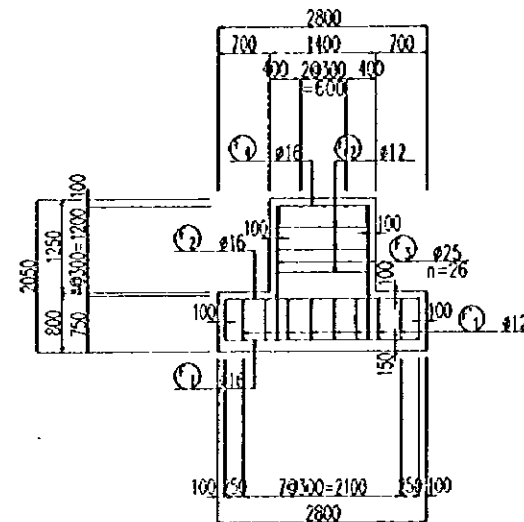
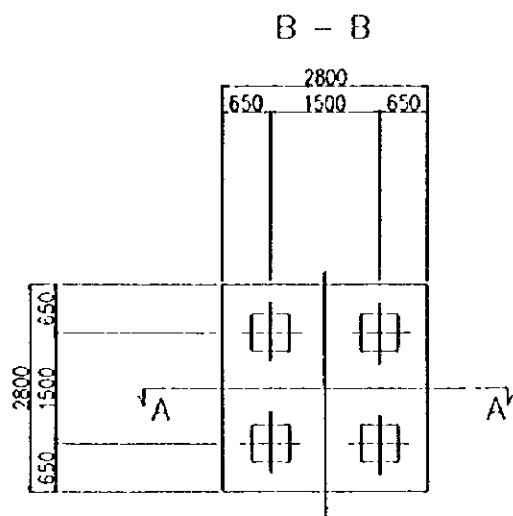
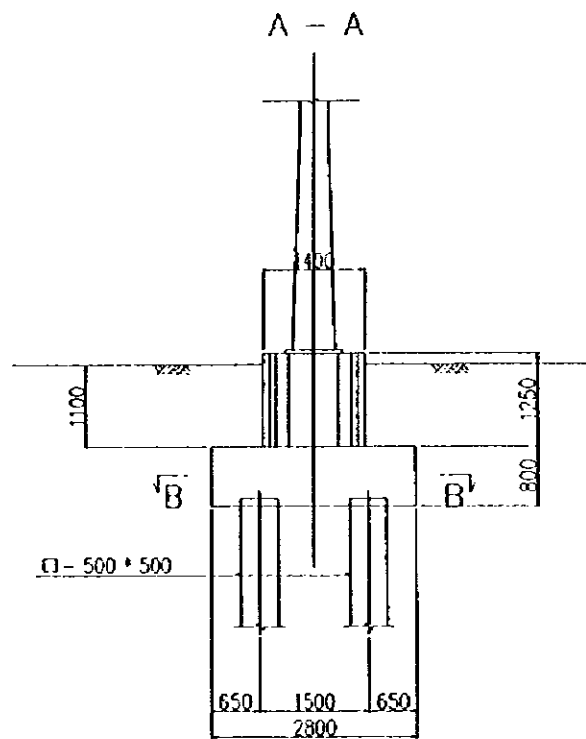


PLAN AND SECTIONAL PLAN OF WIND CONE
SCALE : 1/200



SECTIONAL PLAN OF WDIL
SCALE : 1/100

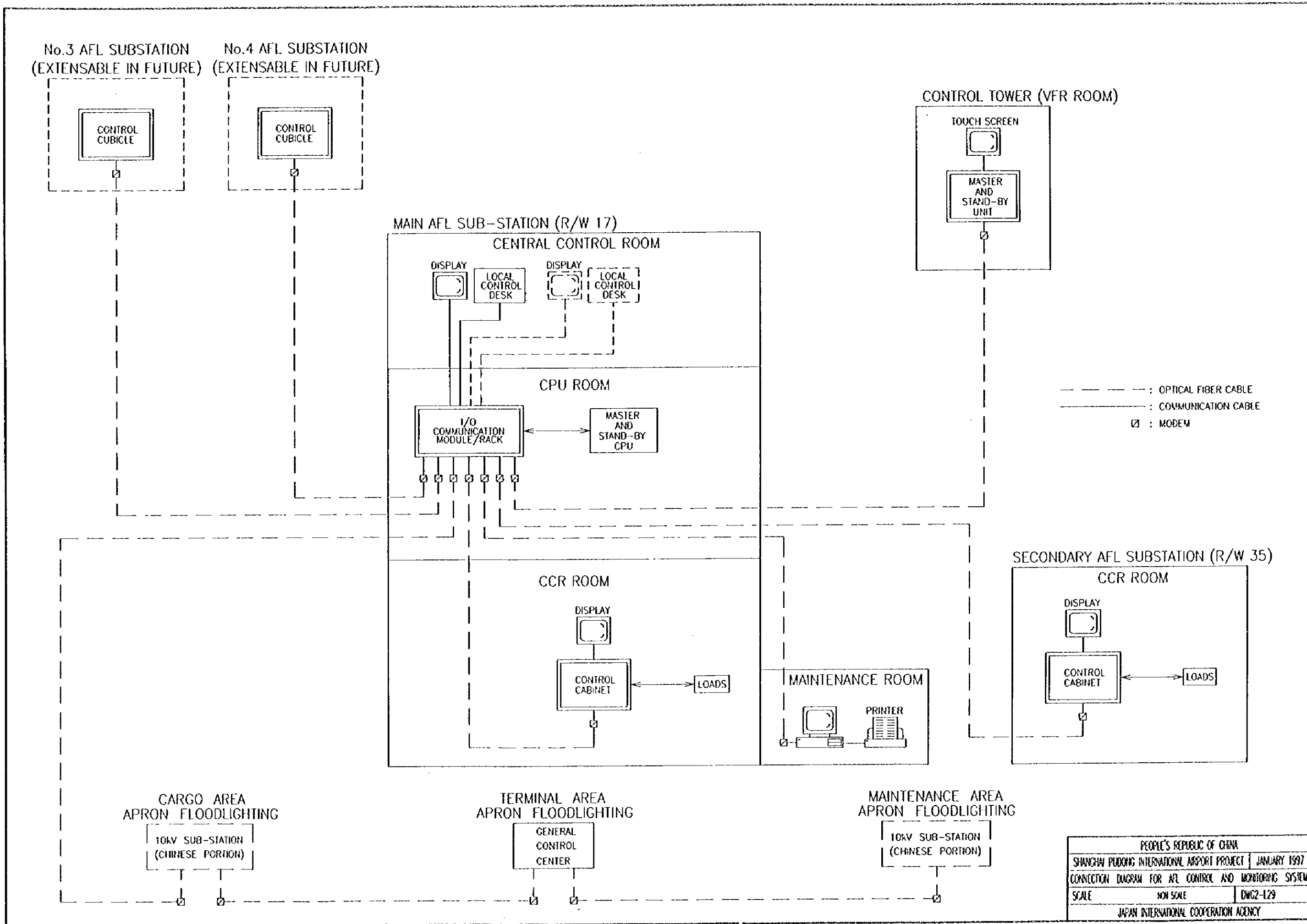
| | | |
|---|--------------|---------|
| PEOPLE'S REPUBLIC OF CHINA | | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 | |
| INSTALLATION PLAN OF WDIL | | |
| SCALE | AS SHOWN | DWG-127 |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | |



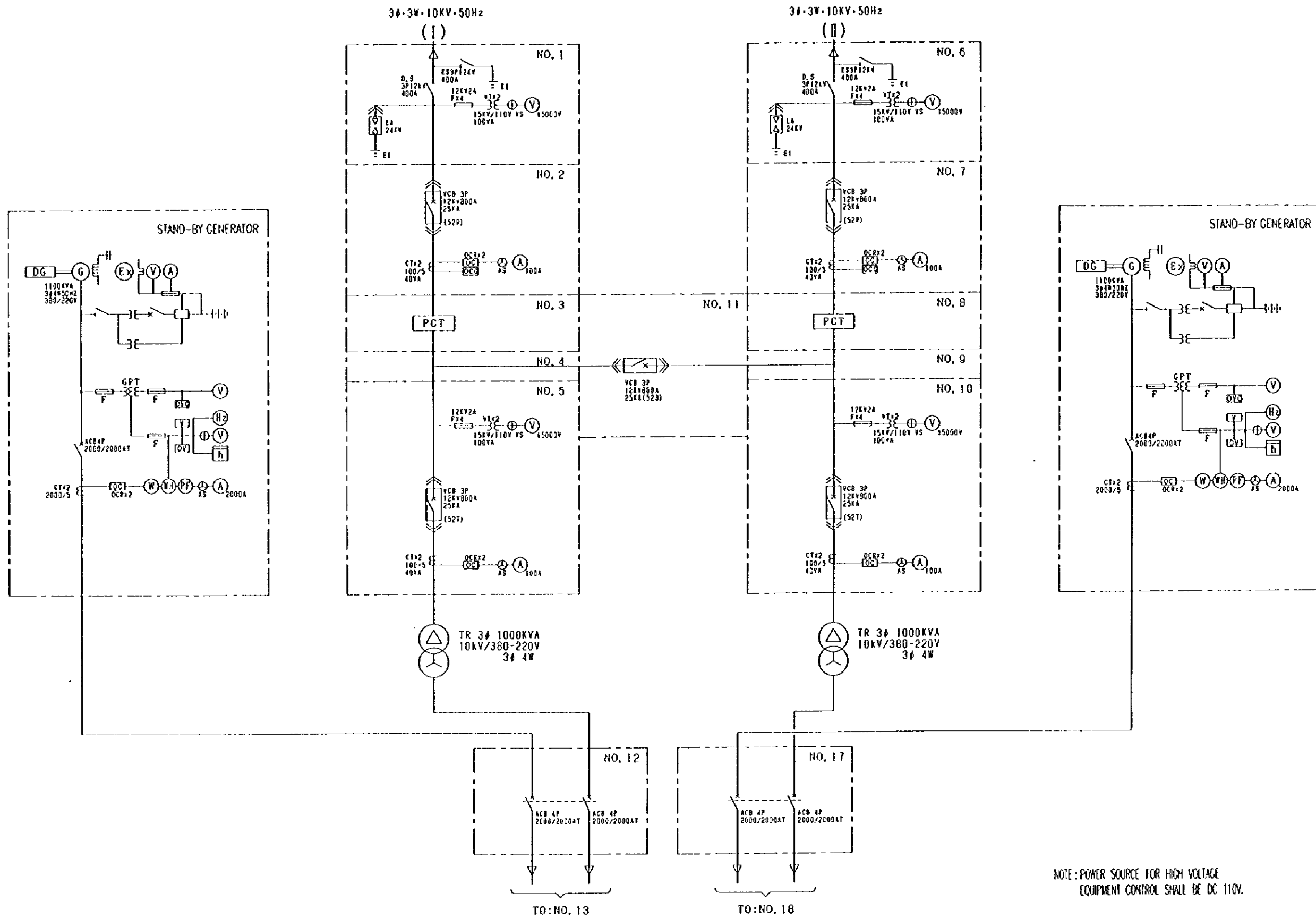
REINFORCED BAR AMOUNT

| Mark | Diagram | Length (mm) | Number | Bar Weight (kg) | Bar Weight/Bar (kg) | Weight (kg) | Remarks |
|------|---------|-------------|--------|-----------------|---------------------|-------------|---------|
| F-1 | #16 | 3700 | 200 | 1576 | 5.879 | 1168 | |
| 2 | - | 3080 | 200 | - | 4.860 | 972 | |
| 3 | #25 | 2180 | 260 | 3854 | 8.955 | 2183 | |
| 4 | #16 | 1620 | 60 | 1578 | 2.525 | 152 | |
| F-1 | #12 | 1520 | 160 | 888 | 1.412 | 228 | |
| 2 | - | 4320 | 3 | - | 3845 | 115 | |
| | | | | #25 | 2183 | kg | |
| | | | | #16 | 2292 | - | |
| | | | | #12 | 341 | - | |
| | | | | TOTAL | 4816 | kg | |

| | | |
|---|--------------|----------|
| PEOPLE'S REPUBLIC OF CHINA | | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 | |
| FOUNDATION OF FLO | | |
| SCALE | NON SCALE | CWG2-L28 |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | |



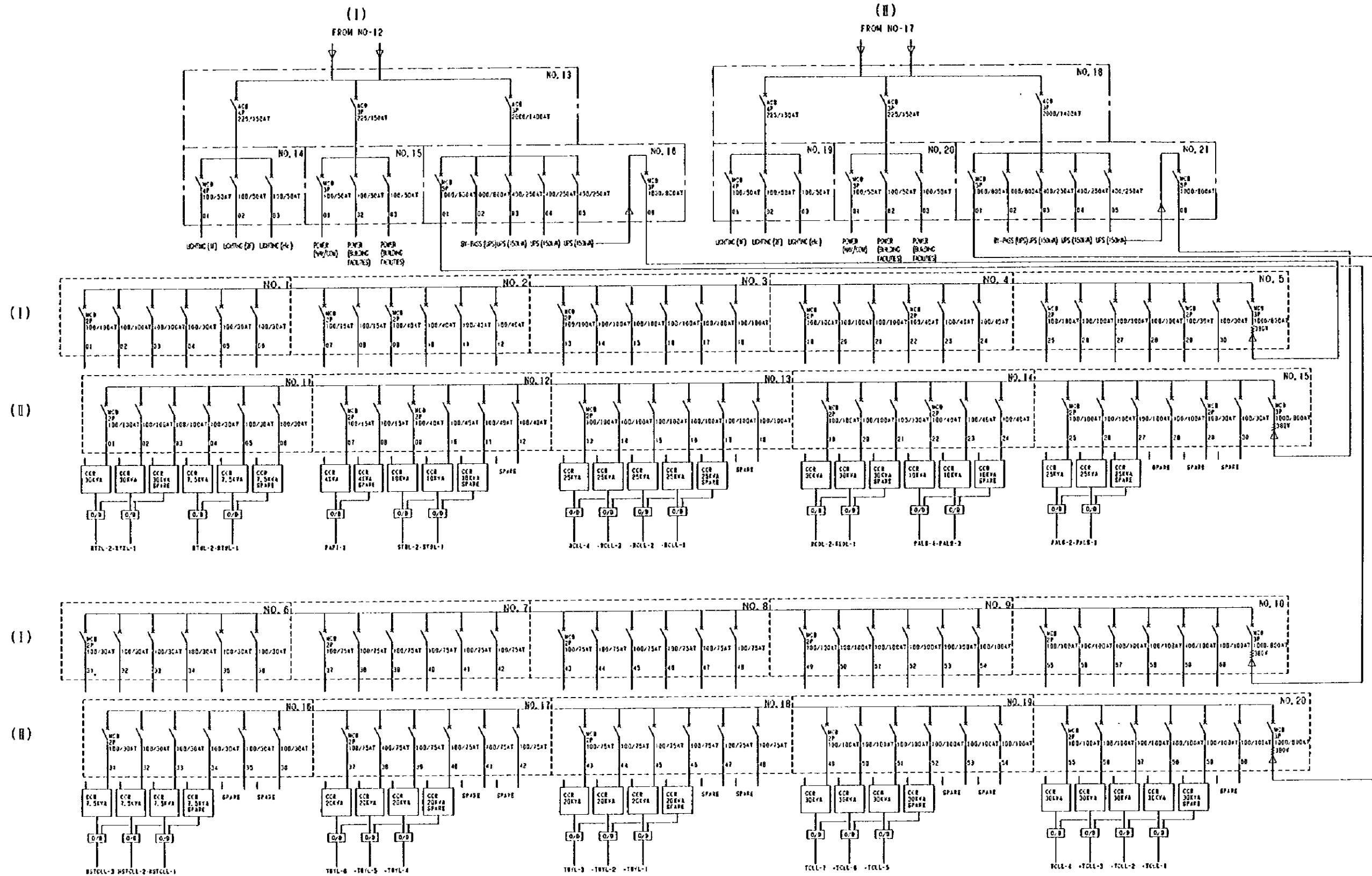
| | | |
|--|--------------|----------|
| PEOPLE'S REPUBLIC OF CHINA | | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 | |
| CONNECTION DIAGRAM FOR AFL CONTROL AND MONITORING SYSTEM | | |
| SCALE | NON SCALE | DWG2-L29 |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | |



NOTE: POWER SOURCE FOR HIGH VOLTAGE
EQUIPMENT CONTROL SHALL BE DC 110V.

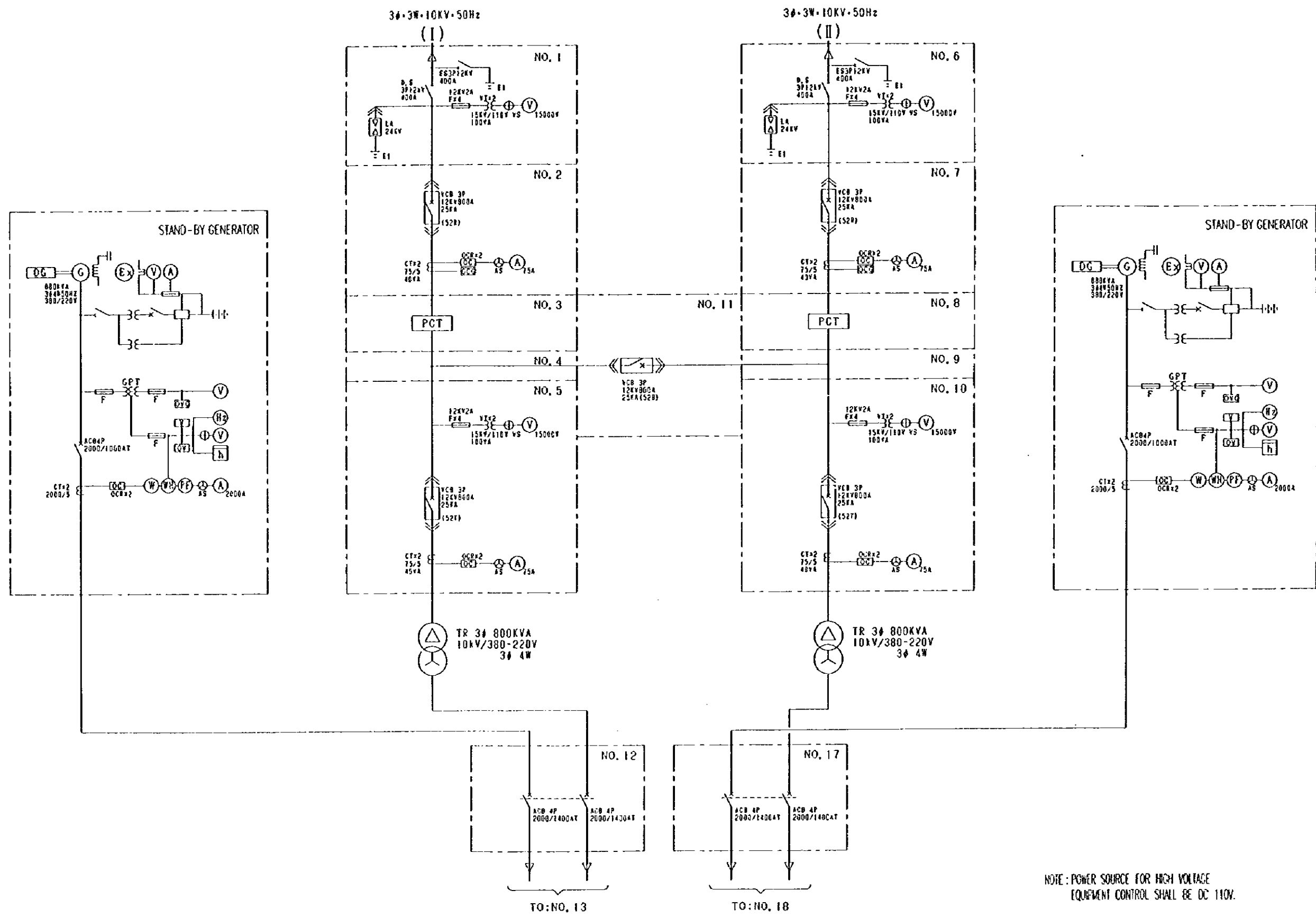
MAIN AFL SUB-STATION
(R/W 17)

| | | |
|---|--------------|----------------|
| PEOPLE'S REPUBLIC OF CHINA | | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 | |
| POWER SYSTEM SINGLE LINE DIAGRAM (1/4) | | |
| SCALE | NON SCALE | DWG2-E11 (1/4) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | |



MAIN AFL SUB-STATION
(R/W 17)

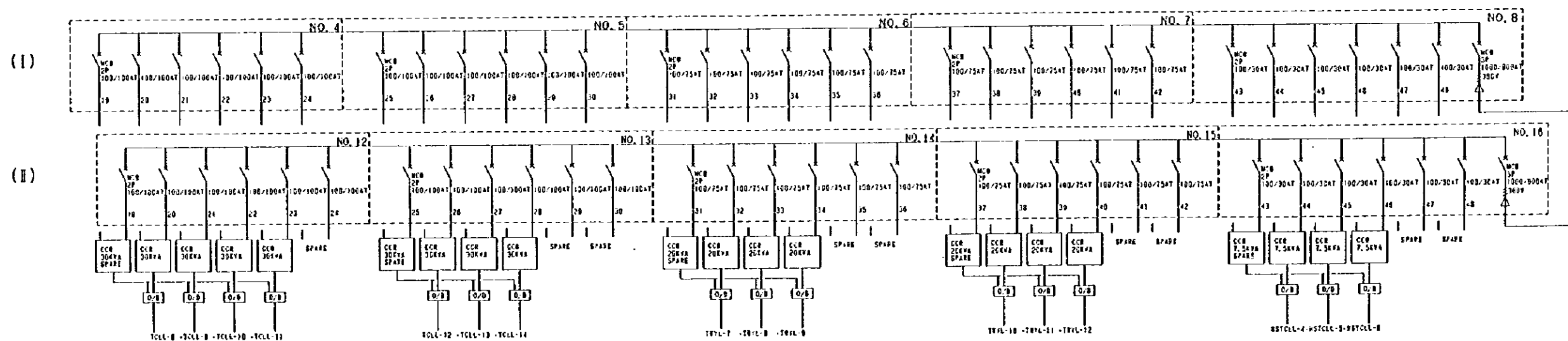
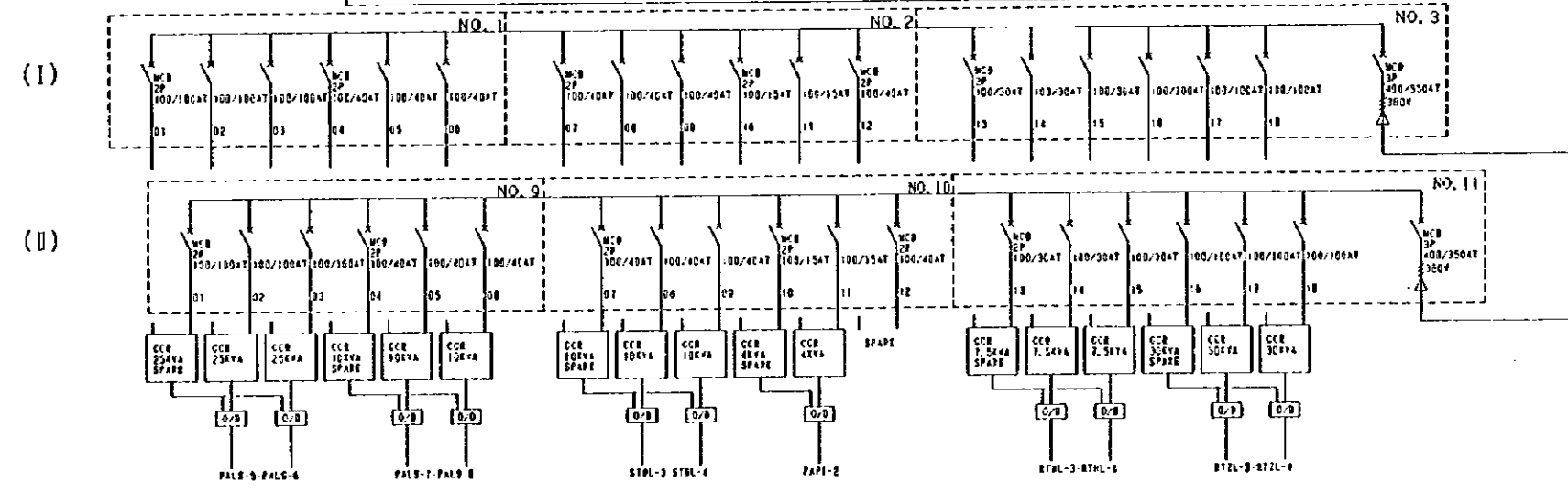
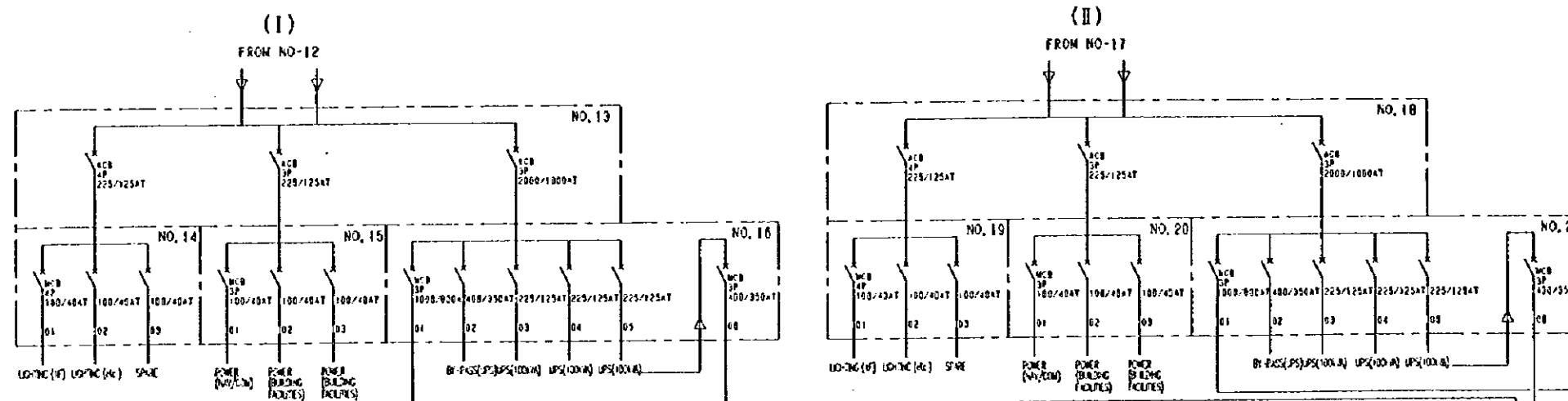
| | |
|---|--------------------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 |
| POWER SYSTEM SINGLE LINE DIAGRAM (2/4) | |
| SCALE | NON SCALE DWG2-E11 (2/4) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



NOTE: POWER SOURCE FOR HIGH VOLTAGE
EQUIPMENT CONTROL SHALL BE DC 110V.

SECONDARY AFL SUB-STATION
(R/W 35)

| | | |
|---|--------------|----------------|
| PEOPLE'S REPUBLIC OF CHINA | | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 | |
| POWER SYSTEM SINGLE LINE DIAGRAM (3/4) | | |
| SCALE | NON SCALE | DWG2-E11 (3/4) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | |



NOTE : POWER SOURCE FOR HIGH VOLTAGE EQUIPMENT CONTROL SHALL BE DC 110V.

SECONDARY AFL SUB-STATION (R/W 35)

| | | |
|---|--------------|----------------|
| PEOPLE'S REPUBLIC OF CHINA | | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 | |
| POWER SYSTEM SINGLE LINE DIAGRAM (1/4) | | |
| SCALE | NON SCALE | DWG2-E11 (1/4) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | |

| PANEL NO. TYPE | NO.1 | NO.2 | NO.3 | NO.4 | NO.5 | NO. | NO.11 | NO. |
|--------------------------|-------------------|----------------|------|----------|-------------------|-----|----------------|-----|
| (1) (10KV) DIAGRAM | | | | | | | | |
| OBJECT | RECEVE | VCB(52R) | PCT | VCB(52B) | TR(1000KVA) | | (I)(II) | |
| VCB | | 12KV800A(20KA) | | | 12KV800A(20KA) | | 12KV800A(20KA) | |
| DS | 3P12KV 400A | | | | | | | |
| ARRESTERS | 24KV | | | | 24KV | | | |
| VI | 1.2KV/100V(100VA) | | | | 1.2KV/100V(100VA) | | | |
| CT | | 100/5(40VA) | | | 100/5(40VA) | | | |
| V-METER | 0-15,000V | | | | 0-15,000 | | | |
| A-METER | | 0-100A | | | 0-100A | | | |
| EARTHING SWITCH | | | | | | | | |

| | | |
|---|--------------|----------------|
| PEOPLE'S REPUBLIC OF CHINA | | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 | |
| PRIMARY POWER LINE DIAGRAM FOR MAIN AFL SUB-STATION (1/2) | | |
| SCALE | NON SCALE | EWG2-E12 (1/2) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | |

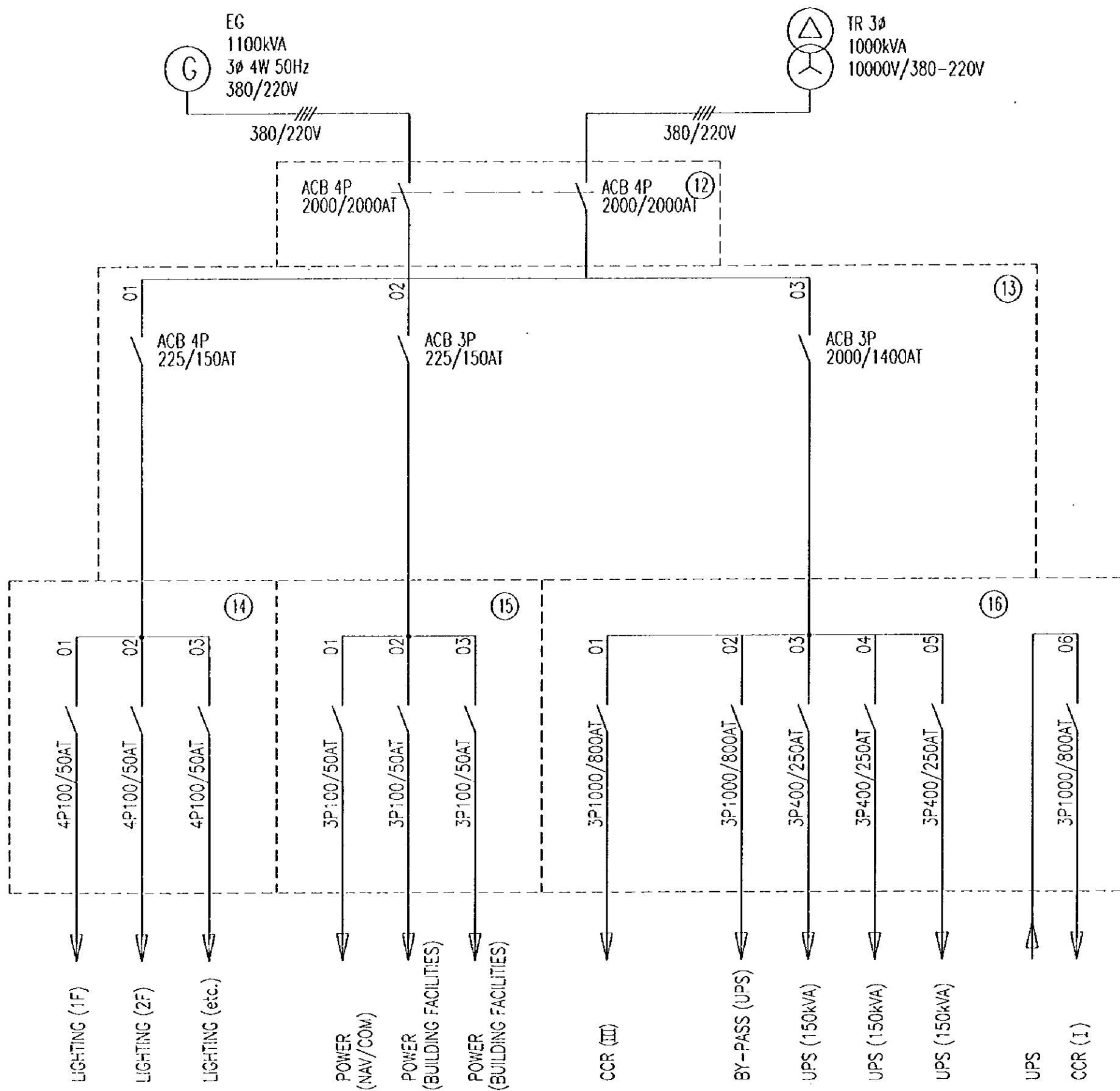
| PANEL NO. | NO.6 | NO.7 | NO.8 | NO.9 | NO.10 | NO. | NO. | NO. |
|------------------------|-------------------|----------------|------|----------|-------------------|-----|-----|-----|
| TYPE | | | | | | | | |
| (B) 10KV DIAGRAM | | | | | | | | |
| OBJECT | RECEIVE | VCB(52R) | PCT | VCB(52B) | TR(1000KVA) | | | |
| VCB | | 12KV800A(20KA) | | | 12KV800A(20KA) | | | |
| DS | 3P12KV 400A | | | | | | | |
| ARRESTERS | 24KV | | | | 24KV | | | |
| VT | 1.2KV/100V(100VA) | | | | 1.2KV/100V(100VA) | | | |
| CT | | 100/5(40VA) | | | 100/5(40VA) | | | |
| V-METER | 0-15,000V | | | | 0-15,000 | | | |
| A-METER | | 0-100A | | | 0-100A | | | |
| EARTHING SWITCH | | | | | | | | |

| | | |
|---|--------------|----------------|
| PEOPLE'S REPUBLIC OF CHINA | | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 | |
| PRIMARY POWER LINE DIAGRAM FOR MAIN AFL SUB-STATION (2/2) | | |
| SCALE | NON SCALE | DWG2-E12 (2/2) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | |

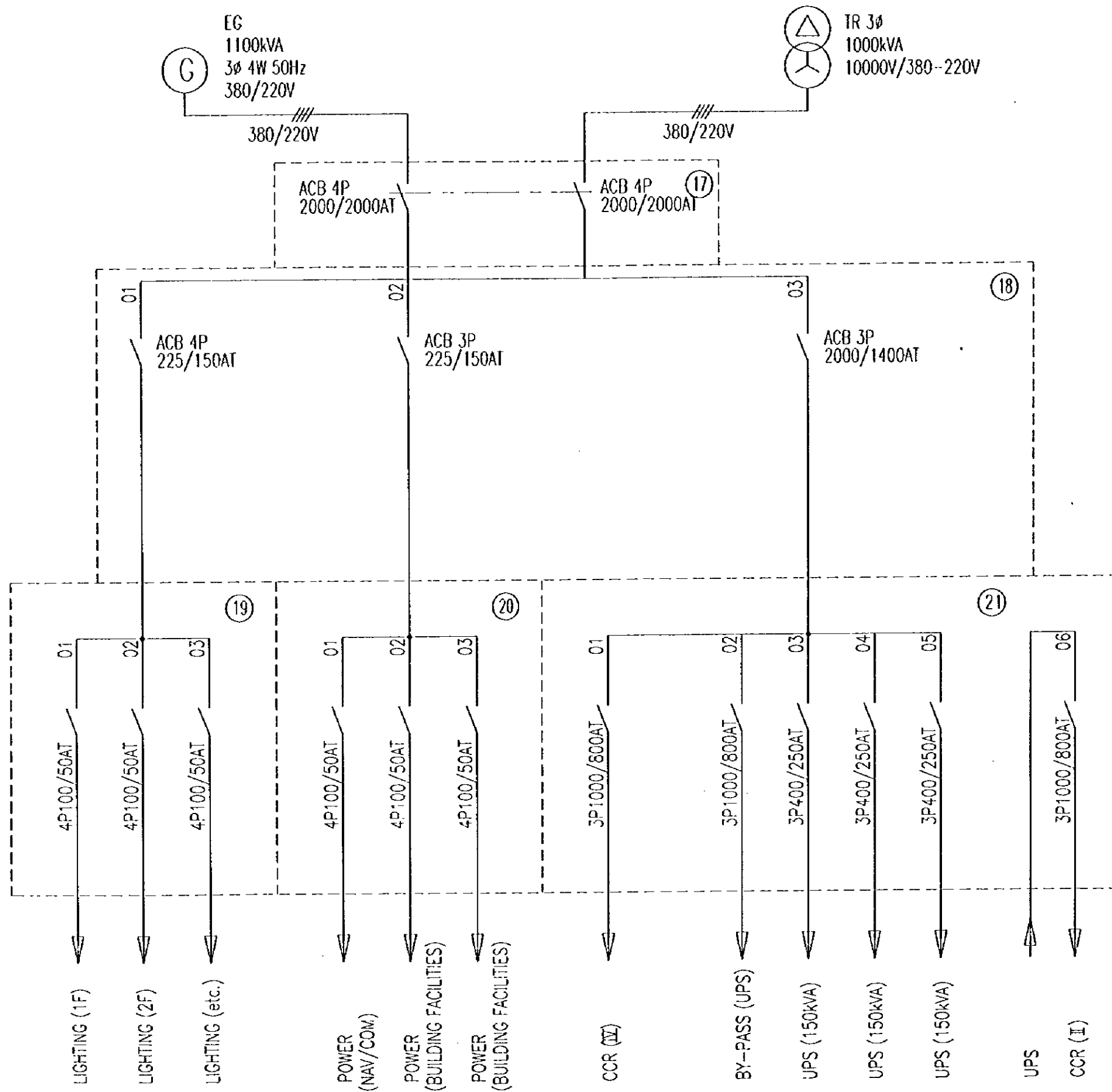
| PANEL NO. | NO.1 | NO.2 | NO.3 | NO.4 | NO.5 | NO. | NO.11 | NO. |
|--------------------------|-------------------|----------------|------|----------|-------------------|-----|----------------|-----|
| TYPE | | | | | | | | |
| (1) (10KV) DIAGRAM | | | | | | | | |
| OBJECT | RECEVE | VCB(52R) | PCT | VCB(52B) | TR(800KVA) | | (1)(2) | |
| VCB | | 12KV800A(20KA) | | | 12KV800A(20KA) | | 12KV800A(20KA) | |
| DS | 3P12KV 400A | | | | | | | |
| ARRESTERS | 24KV | | | | 24KV | | | |
| VT | 1.2KV/100V(100VA) | | | | 1.2KV/100V(100VA) | | | |
| CT | | 75/5(40VA) | | | 75/5(40VA) | | | |
| V-METER | 0-15,000V | | | | 0-15,000V | | | |
| A-METER | | 0-75A | | | 0-75A | | | |
| EARTHING SWITCH | | | | | | | | |

| | | |
|--|--------------|----------------|
| PEOPLE'S REPUBLIC OF CHINA | | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 | |
| PRIMARY POWER LINE DIAGRAM FOR SECONDARY AFL SUB-STATION (1/2) | | |
| SCALE | NON SCALE | DWG2-E13 (1/2) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | |

| PANEL NO. | NO.6 | NO.7 | NO.8 | NO.9 | NO.10 | NO. | NO. | NO. |
|--------------------------|-------------------|----------------|------|----------|-------------------|-----|-----|-----|
| TYPE | | | | | | | | |
| (1) (10KV) DIAGRAM | | | | | | | | |
| OBJECT | RECEVE | VCB(52R) | PCT | VCB(52B) | TR(800KVA) | | | |
| VCB | | 12KV800A(20KA) | | | 12KV800A(20KA) | | | |
| DS | 3P12kV 400A | | | | | | | |
| ARRESTERS | 24KV | | | | 24KV | | | |
| VT | 1.2KV/100V(100VA) | | | | 1.2KV/100V(100VA) | | | |
| CT | | 75/5(40VA) | | | 75/5(40VA) | | | |
| V-METER | 0--15,000V | | | | 0--15,000V | | | |
| A-METER | | 0--75A | | | 0--75A | | | |
| EARTHING SWITCH | | | | | | | | |



| | | |
|---|--------------|----------------|
| PEOPLE'S REPUBLIC OF CHINA | | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 | |
| SECONDARY POWER LINE DIAGRAM FOR MAIN AEL SUB-STATION (1/6) | | |
| SCALE | NON SCALE | DWG2-E14 (1/6) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | |



| | | |
|---|--------------|----------------|
| PEOPLE'S REPUBLIC OF CHINA | | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997 | |
| SECONDARY POWER LINE DIAGRAM FOR MAIN AIR SUB-STATION (2/6) | | |
| SCALE | NON SCALE | DWG2-ET4 (2/6) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | |

| PANEL NO. | NO.1 | | | | | | NO.2 | | | | | | NO.3 | | | | | | NO.4 | | | | | | NO.5 | | | | | | |
|------------|--------|--------|---------------|--------|--------|----------------|--------|--------------|--------|--------|---------------|-------|--------|--------|--------|--------|---------------|-------|--------|--------|---------------|--------|--------|---------------|--------|--------|---------------|-------|-------|-------|-----------------------------|
| (I) | 380V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DIAGRAM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NO. | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | |
| OBJECT | CCR | CCR | CCR | CCR | CCR | CCR | CCR | CCR | CCR | CCR | CCR | SPARE | CCR | CCR | CCR | CCR | CCR | SPARE | CCR | CCR | CCR | CCR | CCR | CCR | CCR | CCR | CCR | SPARE | SPARE | SPARE | FROM SWITCHGEAR PANEL NO.16 |
| LOAD (KVA) | 30KVA | 30KVA | 30KVA (SPARE) | 7.5KVA | 7.5KVA | 7.5KVA (SPARE) | 4KVA | 4KVA (SPARE) | 10KVA | 10KVA | 10KVA (SPARE) | | 25KVA | 25KVA | 25KVA | 25KVA | 25KVA (SPARE) | | 30KVA | 30KVA | 30KVA (SPARE) | 10KVA | 10KVA | 10KVA (SPARE) | 25KVA | 25KVA | 25KVA (SPARE) | | | | |
| | RTZL-2 | RTZL-1 | RTZL-1~2 | RTHL-2 | RTHL-1 | RTHL-1~2 | PAPL-1 | PAPL-1 | STBL-2 | STBL-1 | STBL-1~2 | | RCLL-4 | RCLL-3 | RCLL-2 | RCLL-1 | RCLL-1~4 | | REDL-2 | REDL-1 | REDL-1~2 | PALS-4 | PALS-3 | PALS-3~4 | PALS-2 | PALS-1 | PALS-1~2 | | | | |

PEOPLE'S REPUBLIC OF CHINA
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997
SECONDARY POWER LINE DIAGRAM FOR MAIN AFL SUB-STATION (3/6)
SCALE: NON SCALE | DWG2-E14 (3/6)
JAPAN INTERNATIONAL COOPERATION AGENCY

| PANEL NO. | NO.6 | | | | | | NO.7 | | | | | | NO.8 | | | | | | NO.9 | | | | | | NO.10 | | | | | | |
|------------|----------|----------|----------|----------------|-------|-------|--------|--------|--------|---------------|-------|-------|--------|--------|--------|---------------|-----|-------|--------|--------|--------|---------------|-------|-------|--------|--------|--------|--------|---------------|-------|-----------------------------|
| (I) | III | | | | | | | | | | | | 380V | | | | | | | | | | | | | | | | | | |
| DIAGRAM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NO. | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | FROM SWITCHGEAR PANEL NO.16 |
| OBJECT | CCR | CCR | CCR | CCR | SPARE | SPARE | CCR | CCR | CCR | CCR | SPARE | SPARE | CCR | CCR | CCR | CCR | CCR | SPARE | CCR | CCR | CCR | CCR | SPARE | SPARE | CCR | CCR | CCR | CCR | CCR | SPARE | |
| LOAD (KVA) | 7.5KVA | 7.5KVA | 7.5KVA | 7.5KVA (SPARE) | | | 20KVA | 20KVA | 20KVA | 20KVA (SPARE) | | | 20KVA | 20KVA | 20KVA | 20KVA (SPARE) | | | 30KVA | 30KVA | 30KVA | 30KVA (SPARE) | | | 30KVA | 30KVA | 30KVA | 30KVA | 30KVA (SPARE) | | |
| | HSTCLL-3 | HSTCLL-2 | HSTCLL-1 | HSTCLL-1~3 | | | TWYL-6 | TWYL-5 | TWYL-4 | TWYL-4~6 | | | TWYL-3 | TWYL-2 | TWYL-1 | TWYL-1~3 | | | TCLL-7 | TCLL-6 | TCLL-5 | TCLL-5~7 | | | TCLL-4 | TCLL-3 | TCLL-2 | TCLL-1 | TCLL-1~4 | | |

| PANEL NO. | NO.11 | | | | | | NO.12 | | | | | | NO.13 | | | | | | NO.14 | | | | | | NO.15 | | | | | | |
|------------|--------|--------|---------------|--------|--------|----------------|--------|--------------|--------|--------|---------------|-------|--------|--------|--------|--------|---------------|--------|--------|----------|---------------|--------|----------|---------------|--------|----------|---------------|-------|-------|-------|-----------------------------|
| (I) | 380V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DIAGRAM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NO. | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | FROM SWITCHGEAR PANEL NO.21 |
| OBJECT | CCR | CCR | CCR | CCR | CCR | CCR | CCR | CCR | CCR | CCR | CCR | SPARE | CCR | CCR | CCR | CCR | CCR | SPARE | CCR | CCR | CCR | CCR | CCR | CCR | CCR | CCR | CCR | SPARE | SPARE | SPARE | |
| LOAD (KVA) | 30KVA | 30KVA | 30KVA (SPARE) | 7.5KVA | 7.5KVA | 7.5KVA (SPARE) | 4KVA | 4KVA (SPARE) | 10KVA | 10KVA | 10KVA (SPARE) | | 25KVA | 25KVA | 25KVA | 25KVA | 25KVA (SPARE) | | 30KVA | 30KVA | 30KVA (SPARE) | 10KVA | 10KVA | 10KVA (SPARE) | 25KVA | 25KVA | 25KVA (SPARE) | | | | |
| | [O/D] | [O/D] | [O/D] | [O/D] | [O/D] | [O/D] | [O/D] | [O/D] | [O/D] | [O/D] | [O/D] | | [O/D] | [O/D] | [O/D] | [O/D] | [O/D] | | [O/D] | [O/D] | [O/D] | [O/D] | [O/D] | [O/D] | [O/D] | [O/D] | [O/D] | | | | |
| | RTZL-2 | RTZL-1 | RTZL-1~2 | RTHL-2 | RTHL-1 | RTHL-1~2 | PAPL-1 | PAPL-1 | STBL-2 | STBL-1 | STBL-1~2 | | RCLL-4 | RCLL-3 | RCLL-2 | RCLL-1 | RCLL-1~4 | REDL-2 | REDL-1 | REDL-1~2 | PALS-4 | PALS-3 | PALS-3~4 | PALS-2 | PALS-1 | PALS-1~2 | | | | | |