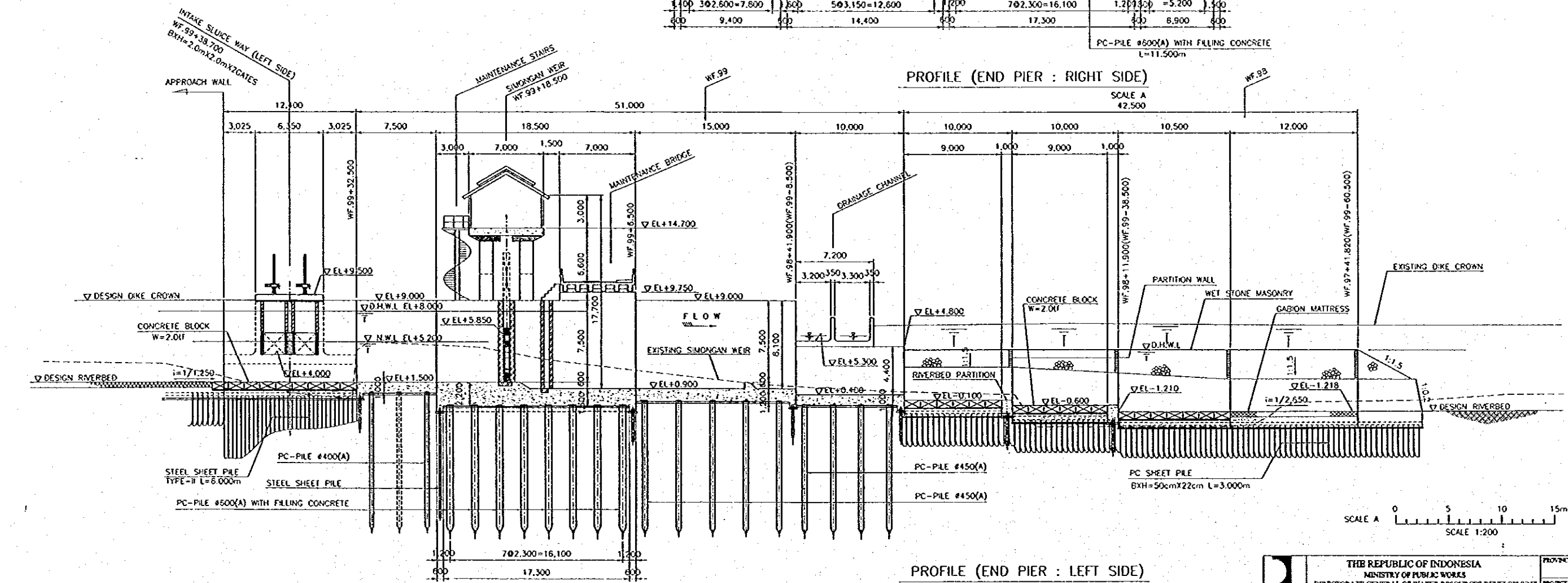


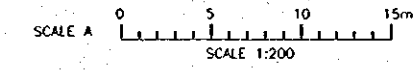
PROFILE (END PIER : RIGHT SIDE)

SCALE A
42.500



PROFILE (END PIER : LEFT SIDE)

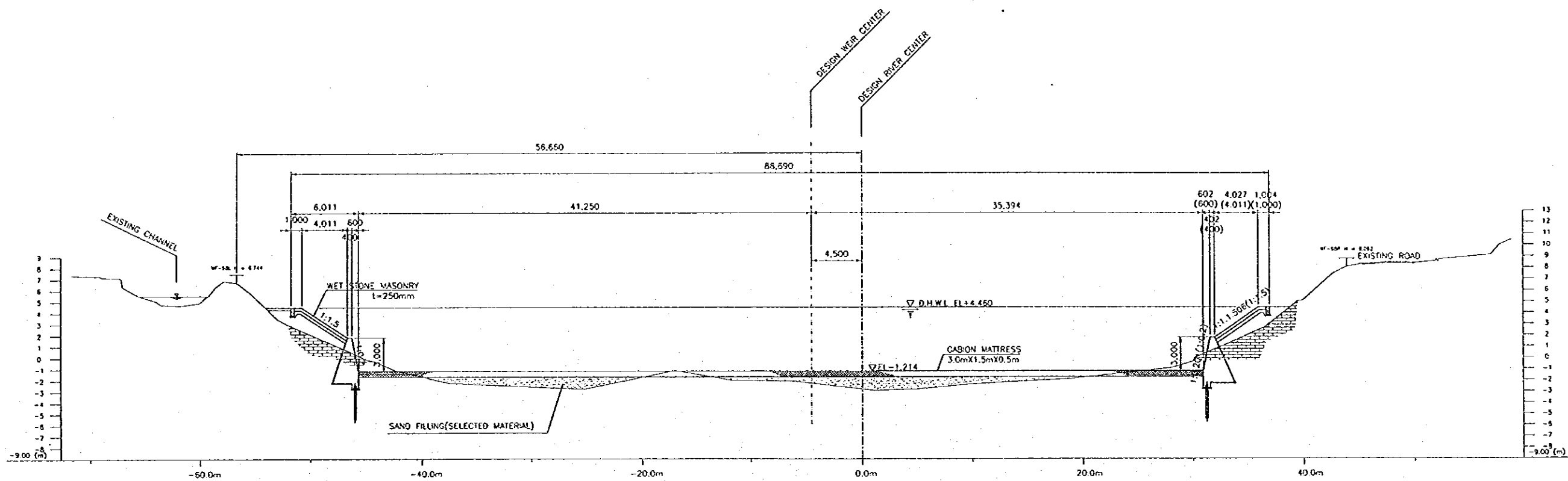
SCALE A



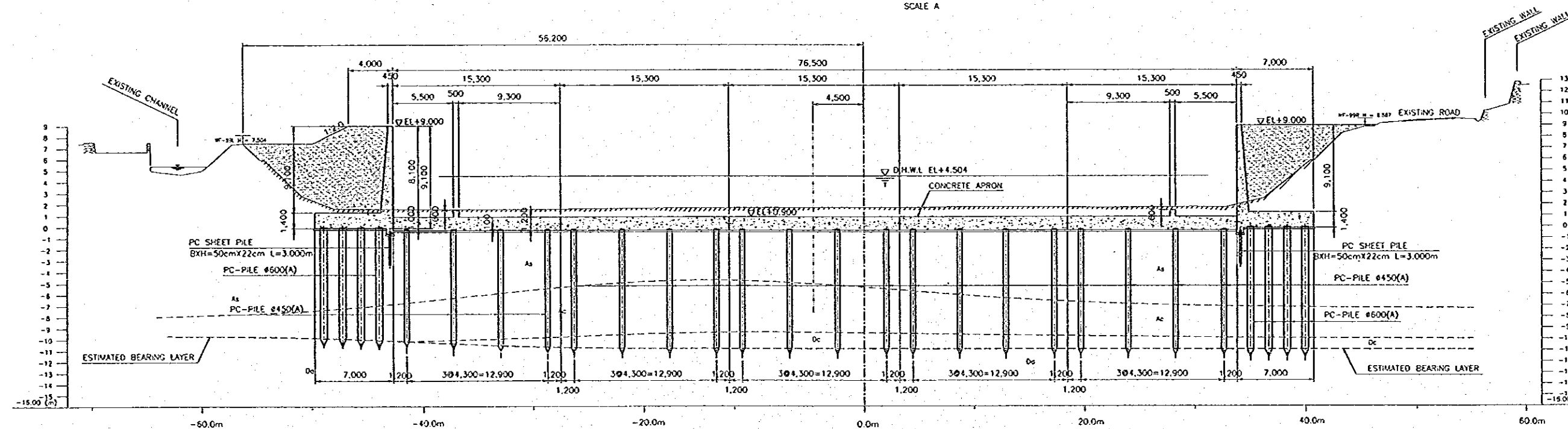
NOTE:
PILE LENGTH SHOWN ON THIS DRAWING IS TENTATIVE.
THE CONTRACTOR SHALL DETERMINE THE LENGTH OF PILE BY TEST PILING.

| NO. | DATE | REVISIONS | ORIGINATED | DESIGNED | APPROVED |
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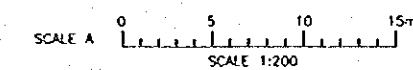
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|------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------|
| THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT | | PROVINCE CENTRAL JAVA |
| JRATUNSELUNA FLOOD CONTROL PROJECT COMPONENT : WEST FLOODWAY / GARANG RIVER IMPROVEMENT | | PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA |
| GENERAL DRAWING PROFILE OF WEIR (2/2) | | DISTRICT SEMARANG CITY |
| DRAWING NO. WS - P2 - 02 - L4 - 3 SHEET NO. 13 | | DATE CONTRACT NO. |
| S2/M INTERNATIONAL COOPERATION AGENCY CIE ENGINEERING CO., LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL AND PAKO INTERNATIONAL P.S. | | CHECKED DATE |
| CHIEF OF PLANNING AND DESIGN | | PROJECT MANAGER |



CROSS SECTION (WF.98)
SCALE A



CROSS SECTION (WF.99)
SCALE A

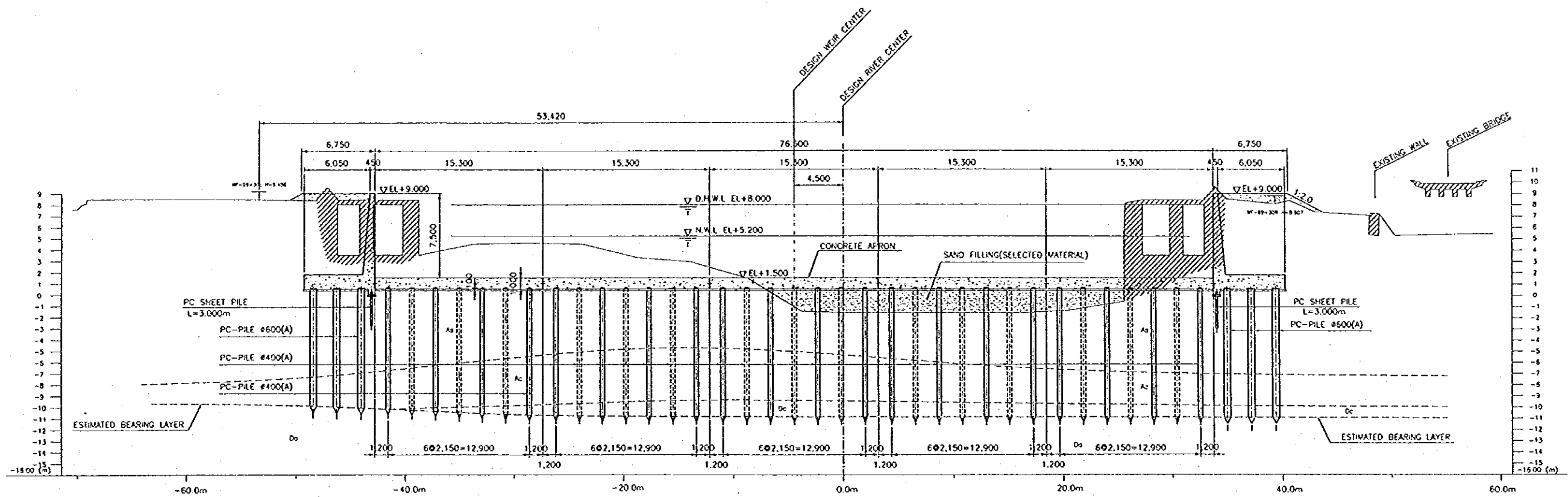


NOTE:
1. PILE LENGTH SHOWN ON THIS DRAWING IS TENTATIVE. THE CONTRACTOR SHALL DETERMINE THE LENGTH OF PILE BY TEST PILING.
2. THE ESTIMATED FORMATION OF GEOLOGICAL LAYER IS SHOWN ON THE DRAWING FOR REFERENCE.
As, Ac, Dc AND Ds SHOWN ON THE DRAWING INDICATE LAYER'S NAME AND ARE DESCRIBED AS FOLLOWS:
As : ALLUVIUM SOIL CONSISTING OF FINE GRAIN TO MIDDLE GRAIN SAND, CONTAINING THE INTERCALATED CLAY AND SILT PARTIALLY.
N-VALUE OF 15 ~ 30
Ac : SOFT ALLUVIUM SOIL, CONSISTING OF CLAY AND SANDY CLAY.
N-VALUE OF 10 ~ 20
Dc : DILUVIUM SOIL CONSISTING OF HARD CLAY, PARTLY CONTAINING CORAL LIMESTONE.
N-VALUE OF 20 ~ 35
Ds : DAMAR FORMATION (SEDIMENTARY ROCK UNIT) WITH N-VALUE OF MORE THAN 50.

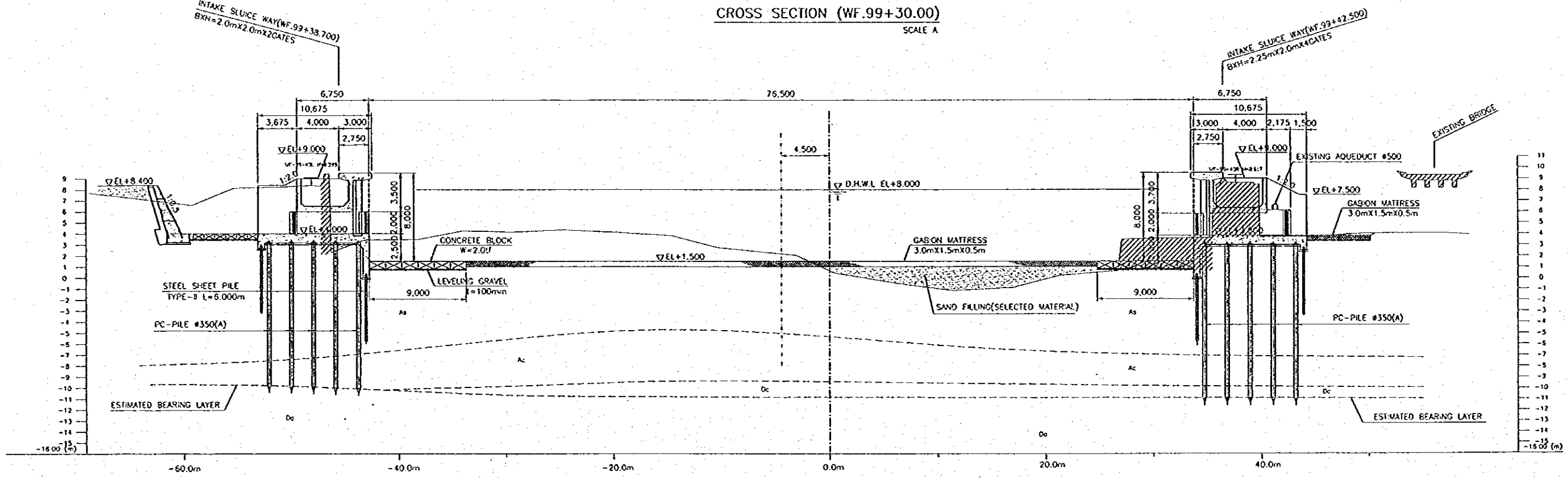
The number in parentheses shows the design dimensions of channel cross section which is perpendicular to the design center line of river channel. (WF.98)

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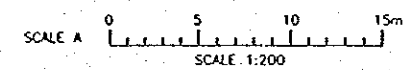
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| THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT | | PROVINCE CENTRAL JAVA |
| JATUNUSSELUNA FLOOD CONTROL PROJECT COMPONENT : WEST FLOODWAY / GARANG RIVER IMPROVEMENT GENERAL DRAWING CROSS SECTIONS (1/2) | | PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA |
| JAWA INTERNATIONAL COOPERATION AGENCY CITI ENGINEERING CO., LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL, JARUNG INTERNATIONAL INC. | | DISTRICT SEMARANG CITY |
| DESIGNED CHECKED CHIEF OF PLANNING AND DESIGN PROJECT MANAGER | DATE CONTRACT NO. | DRAWING NO. WS-PB-EE-CR-7 SHEET NO. 14 |



CROSS SECTION (WF.99+30.00)
SCALE A



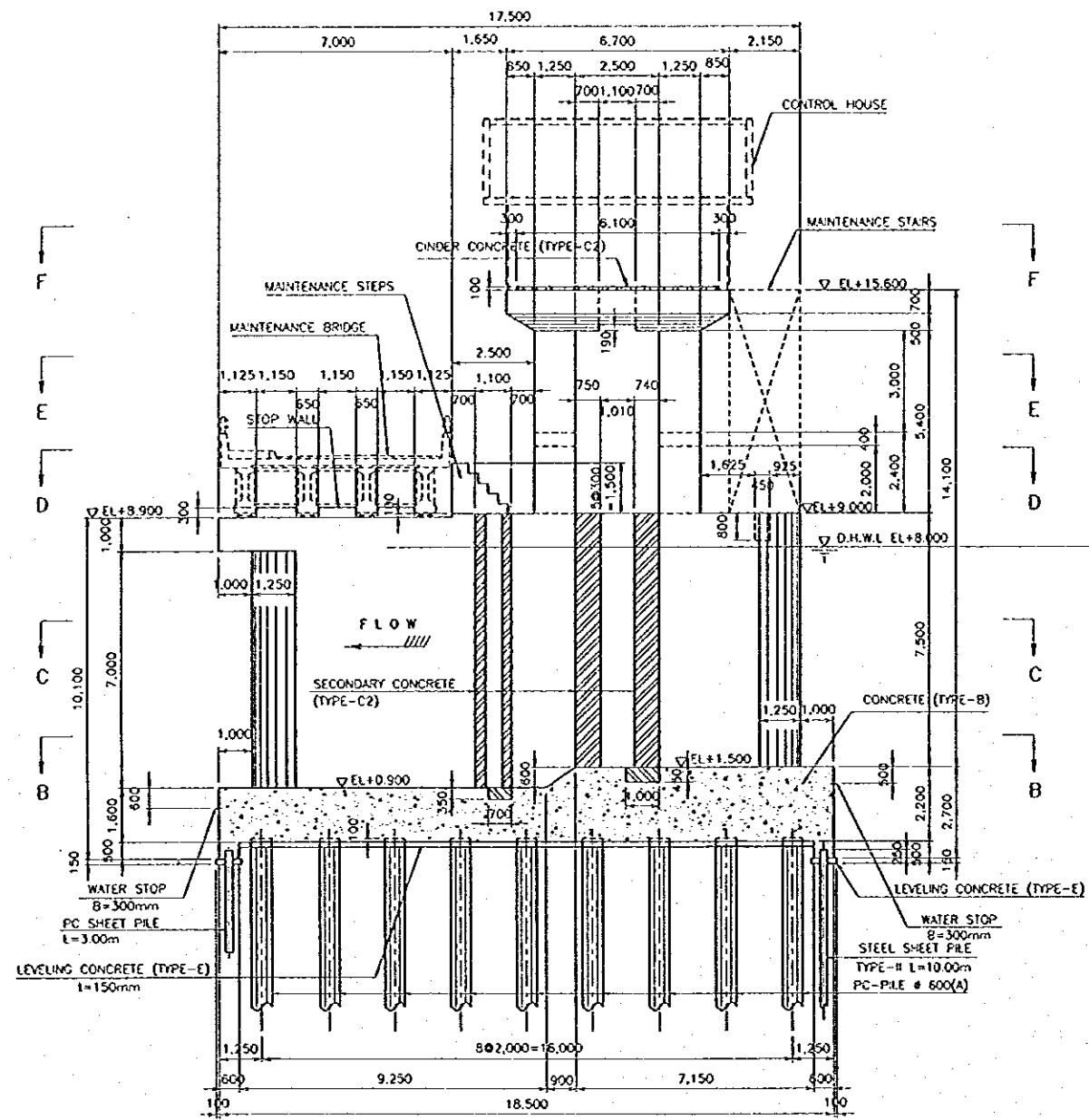
CROSS SECTION (WF.99+43.00)
SCALE A



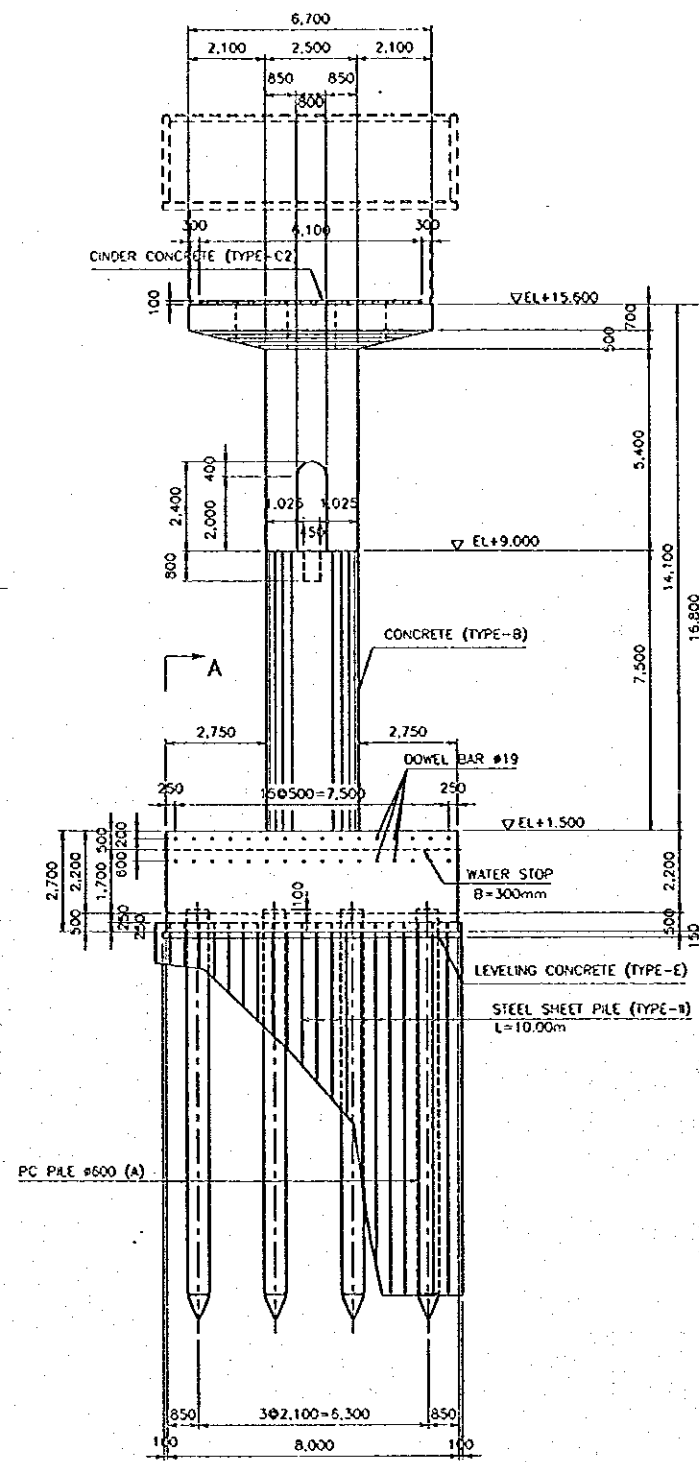
NOTE:
 1. PILE LENGTH SHOWN ON THIS DRAWING IS TENTATIVE. THE CONTRACTOR SHALL DETERMINE THE LENGTH OF PILE BY TEST PILING.
 2. THE ESTIMATED FORMATION OF GEOLOGICAL LAYER IS SHOWN ON THE DRAWING FOR REFERENCE.
 As, Ac, Dc AND Ds SHOWN ON THE DRAWING INDICATE LAYER'S NAME AND ARE DESCRIBED AS FOLLOWS:
 As : ALLUVIUM SOIL CONSISTING OF FINE GRAIN TO MIDDLE GRAIN SAND, CONTAINING THE INTERCALATED CLAY AND SALT PARTIALLY.
 N-VALUE OF 15~30
 Ac : SOFT ALLUVIUM SOIL CONSISTING OF CLAY AND SANDY CLAY.
 N-VALUE OF 10~20
 Dc : DILUVIUM SOIL CONSISTING OF HARD CLAY, PARTLY CONTAINING CORAL LIMESTONE.
 N-VALUE OF 20~35
 Ds : DAMAR FORMATION (SEDIMENTARY ROCK UNIT) WITH N-VALUE OF MORE THAN 50.

| NO. | DATE | REVISIONS | ORIGINATED | DESIGNED | APPROVED |
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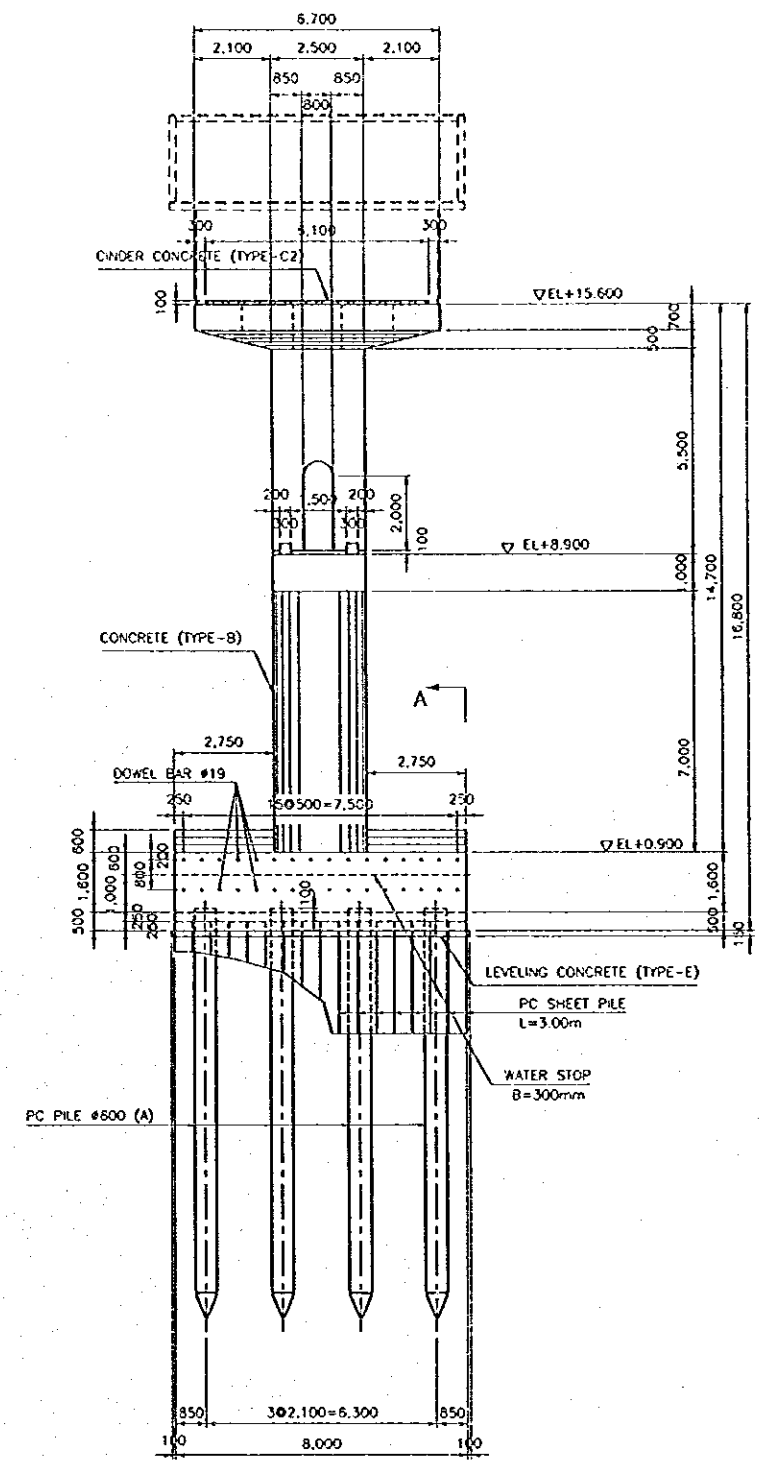
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| THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT | | PROVINCE CENTRAL JAVA |
| JRATUNSELUNA FLOOD CONTROL PROJECT COMPONENT : WEST FLOODWAY / GARANG RIVER IMPROVEMENT | | PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA |
| GENERAL DRAWING CROSS SECTIONS (2/2) | | DISTRICT SEMARANG CITY |
| DRAWING NO. WJ-P2-GE-C1-8 SHEET NO. 15 | | DATE CONTRACT NO. |
| LAJAN INTERNATIONAL COOPERATION AGENCY C/O BUNDAWATI CO., LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL and FARSI INTERNATIONAL | | DESIGNED CHECKED DATE |
| CRISP OF PLANNING AND DESIGN | | PROJECT MANAGER |



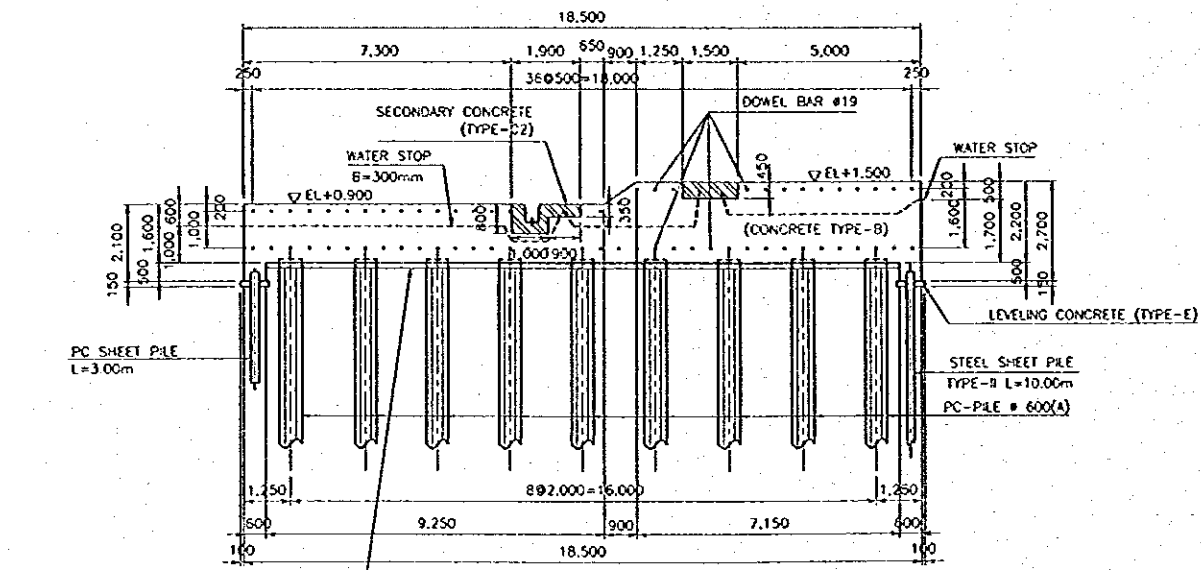
PROFILE OF CENTER PIER
SCALE A



UPSTREAM ELEVATION OF CENTER PIER
SCALE A

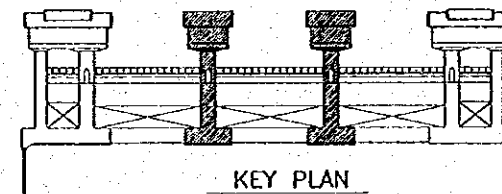


DOWNSTREAM ELEVATION OF CENTER PIER
SCALE A

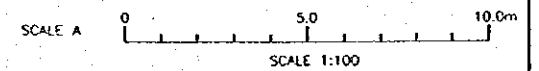


SECTION A-A
SCALE A

NOTE :
PILE LENGTH SHOWN ON THE DRAWING IS TENTATIVE.
THE CONTRACTOR SHOULD DETERMINE THE LENGTH OF PILE BY TEST PILING.

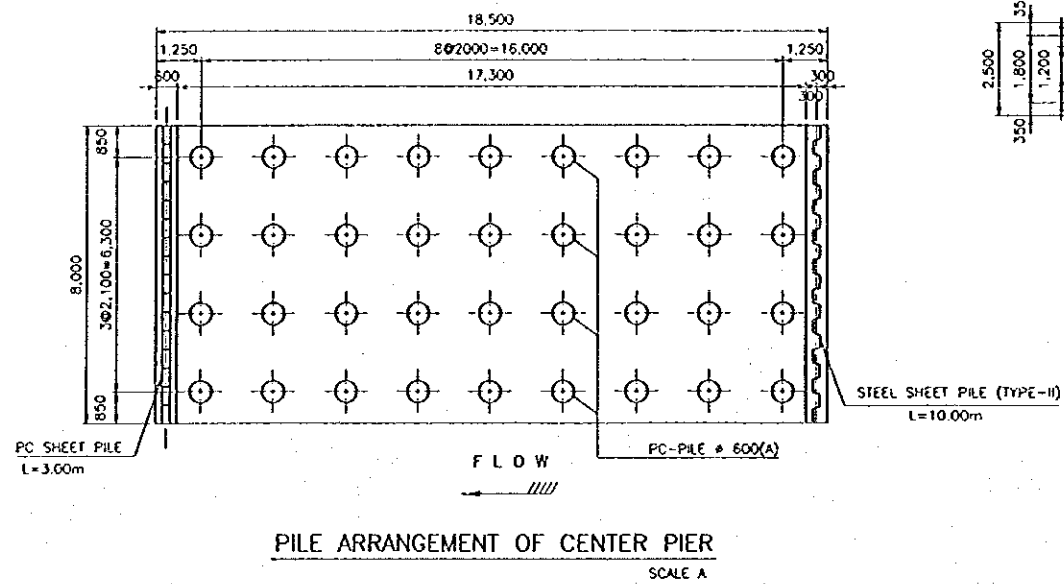


KEY PLAN

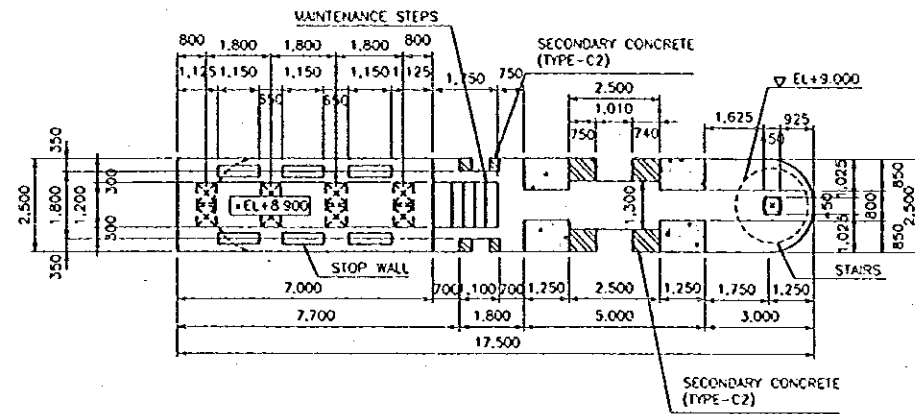


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| THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT | | PROVINCE CENTRAL JAVA |
| IRATUNSELUNA FLOOD CONTROL PROJECT COMPONENT : WEST FLOODWAY / GARANG RIVER IMPROVEMENT WEIR PIER, GATE FLOOR SLAB AND APRON CENTER PIER (1/2) | | PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT OF SEMARANG IN THE REPUBLIC OF INDONESIA |
| JAPAN INTERNATIONAL COOPERATION AGENCY JICA ENGINEERING CO. LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL AND PUSAT TEKNIK SIPIL | | DISTRICT SEMARANG CITY |
| DESIGNED CHECKED CHIEF OF PLANNING AND DESIGN | | DRAWING NO WG-F2WE-01-1 SHEET NO 16 |
| APPROVED PROJECT MANAGER | | DATE CONTRACT NO. |

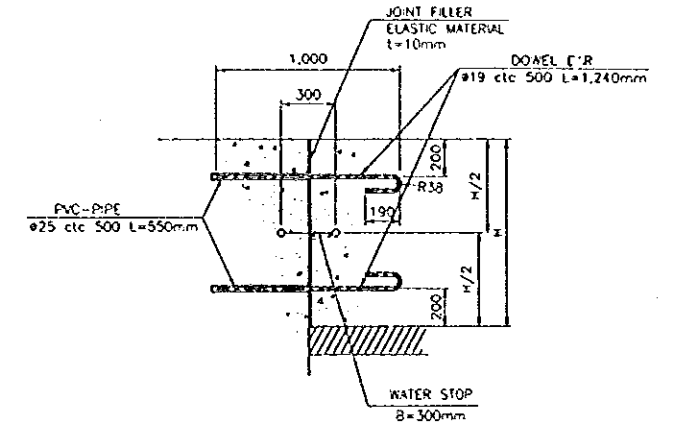
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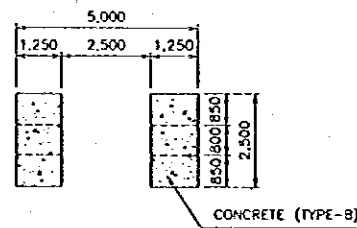
PILE ARRANGEMENT OF CENTER PIER
SCALE A



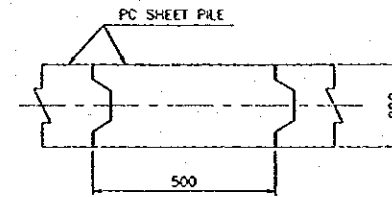
SECTION D-D
SCALE A



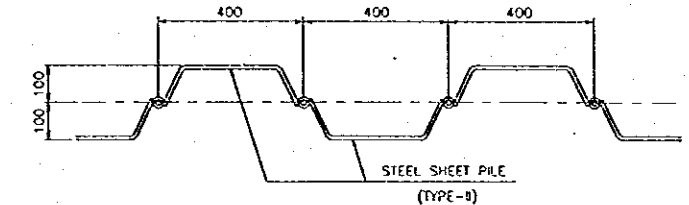
DETAIL OF JOINTING
SCALE B



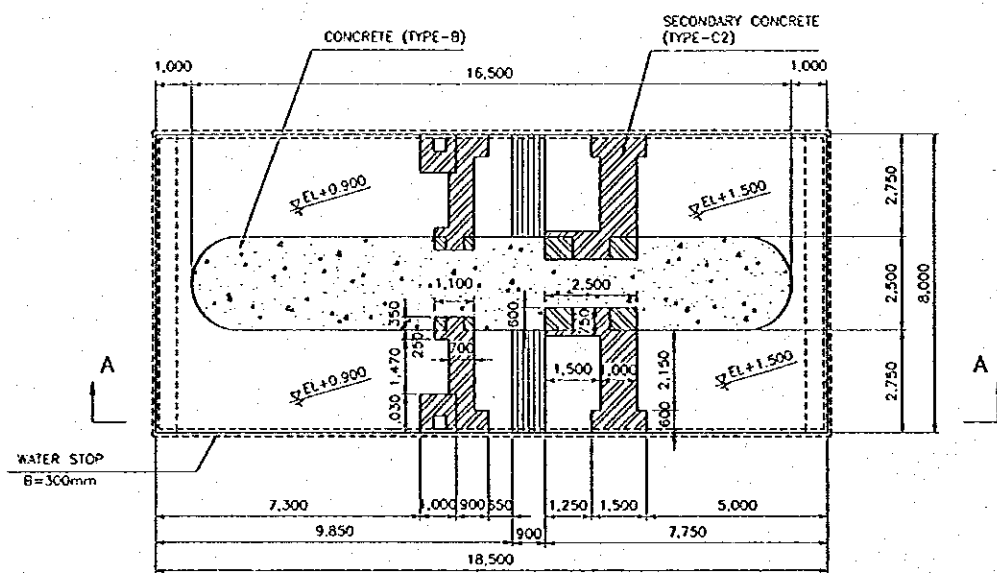
SECTION E-E
SCALE A



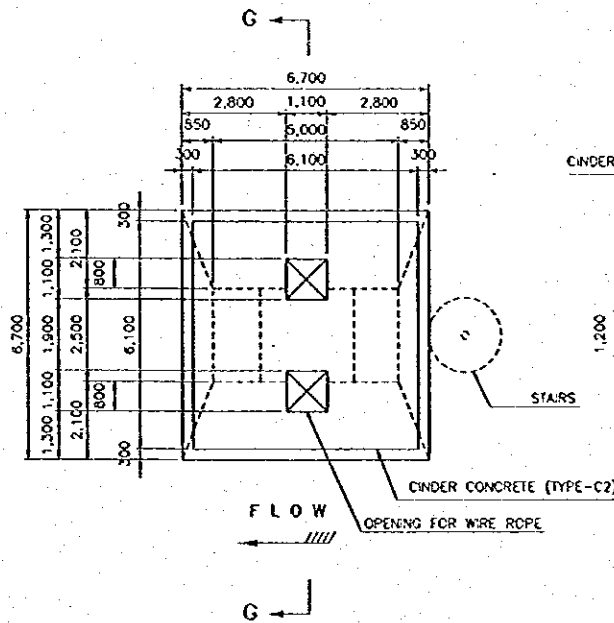
SECTION OF PC SHEET PILE
SCALE C



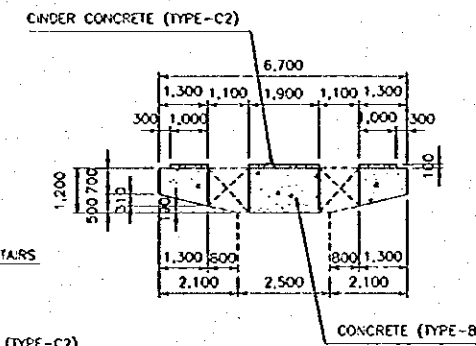
SECTION OF STEEL SHEET PILE
SCALE C



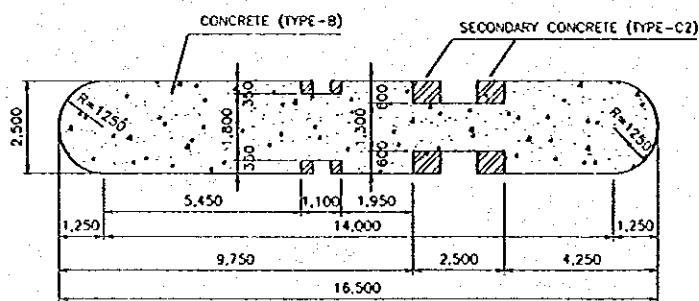
SECTION B-B
SCALE A



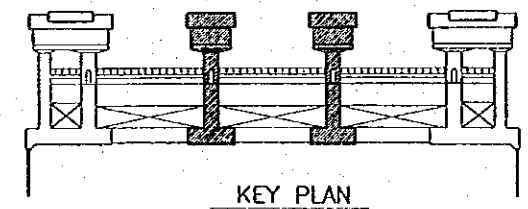
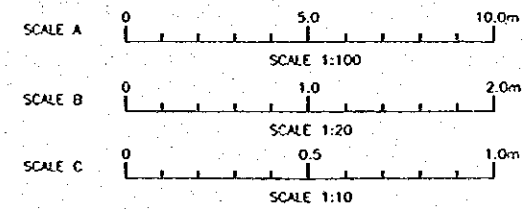
SECTION F-F
SCALE A



SECTION G-G
SCALE A



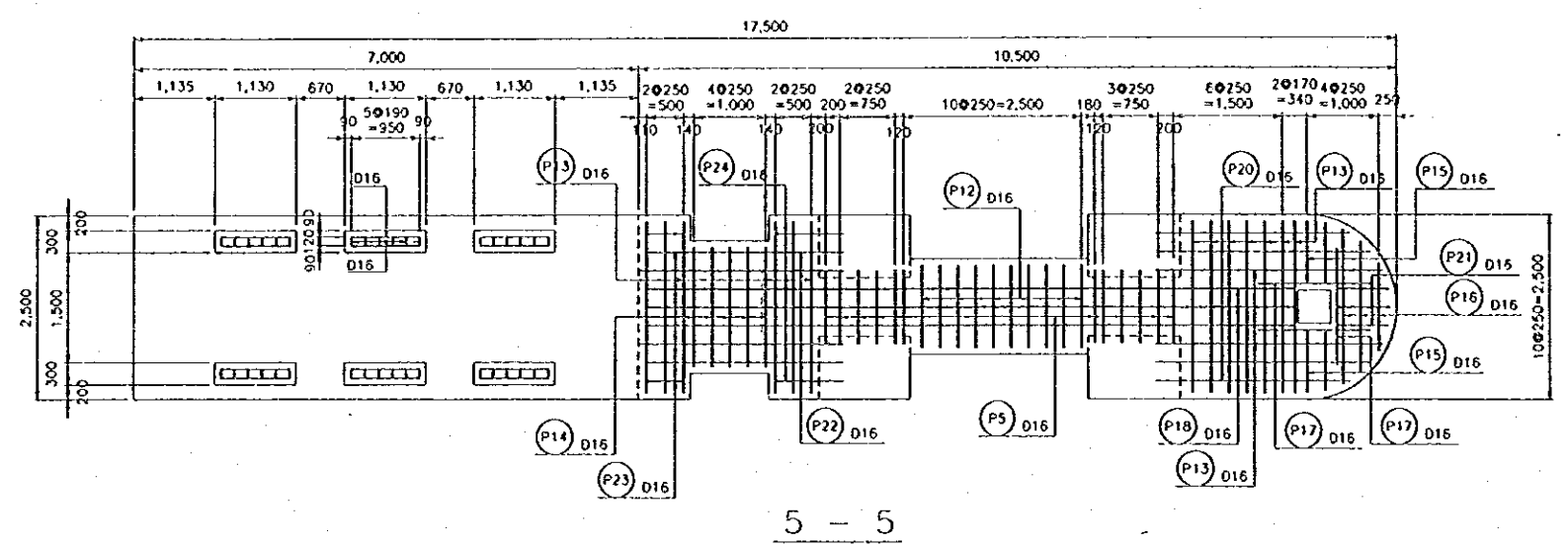
SECTION C-C
SCALE A



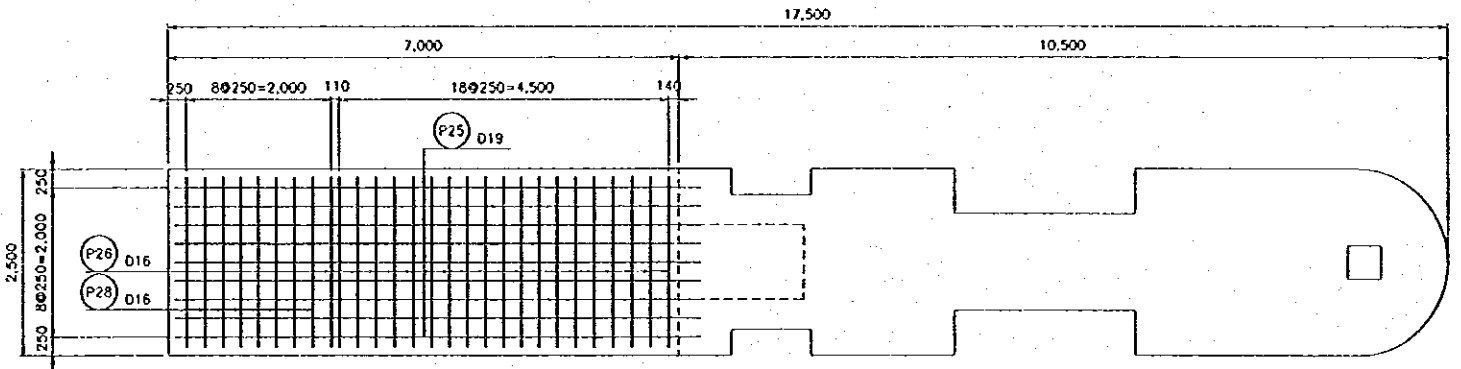
KEY PLAN

| NO. | DATE | REVISIONS | ORIGINATED | DESIGNED | APPROVED |
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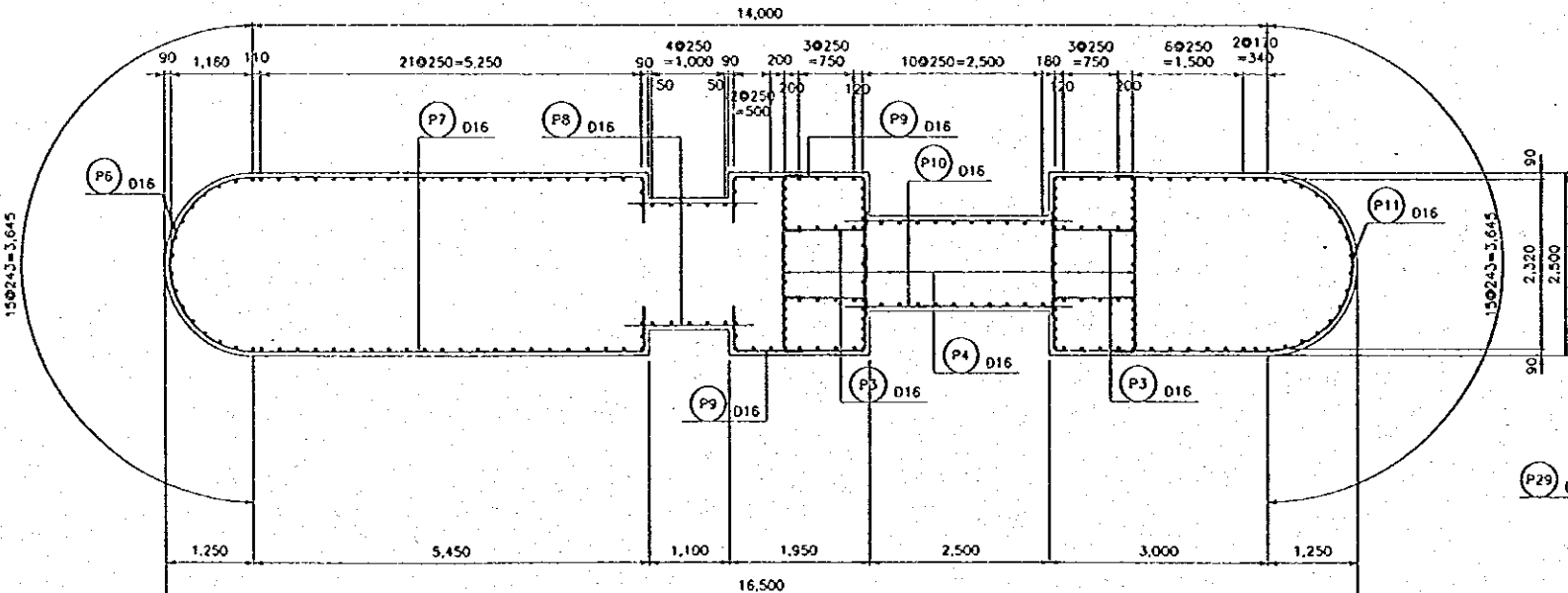
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| THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT | | PROVIDER CENTRAL JAVA |
| /RATUNSELUNA FLOOD CONTROL PROJECT COMPONENT : WEST FLOODWAY / GARANG RIVER IMPROVEMENT WEIR PIER, GATE FLOOR SLAB AND APRON CENTER PIER (2/2) | | PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA DISTRICT SEMARANG CITY |
| JAPAN INTERNATIONAL COOPERATION AGENCY JICA ENGINEERING CO., LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL AND PANGLOSS INTERNATIONAL INC. | | DRAWING NO. WG-P2-WE-41-2 |
| DESIGNED CHECKED CHIEF OF PLANNING AND DESIGN | | SHEET NO. 17 |
| APPROVED PROJECT MANAGER | | DATE CONTRACT NO. |



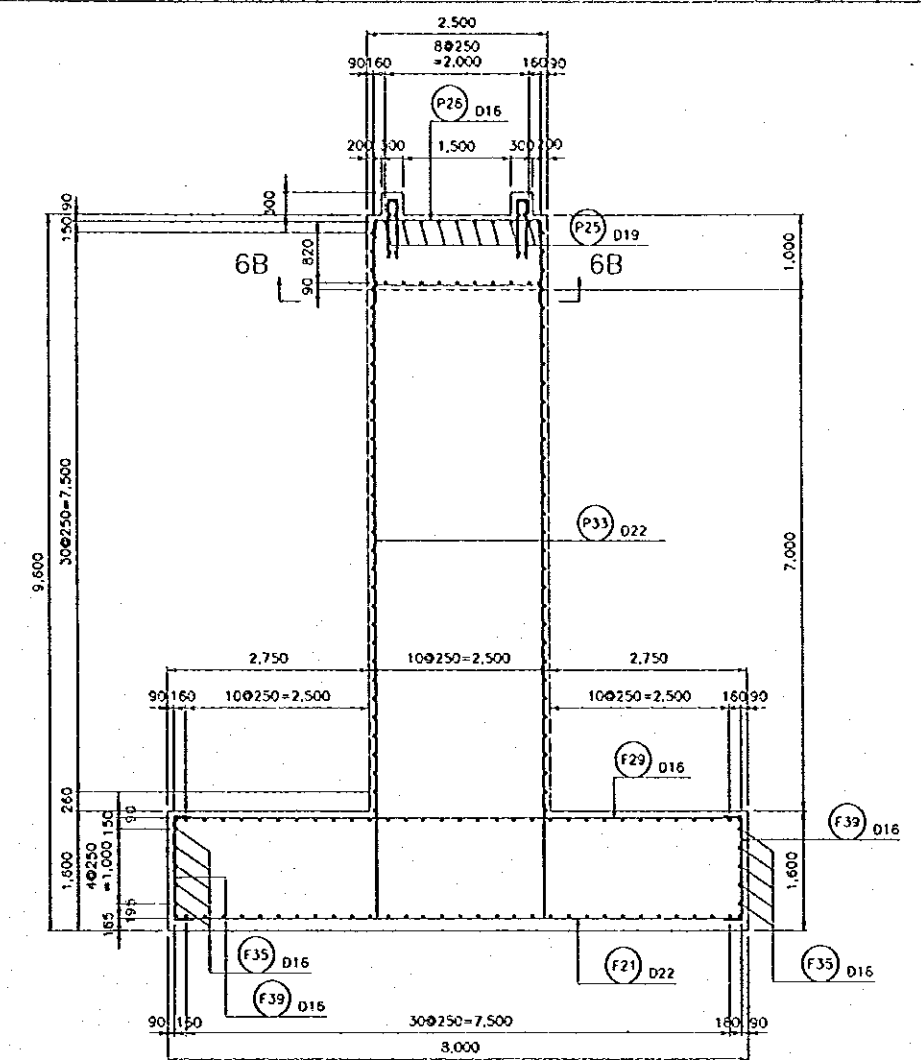
5 - 5



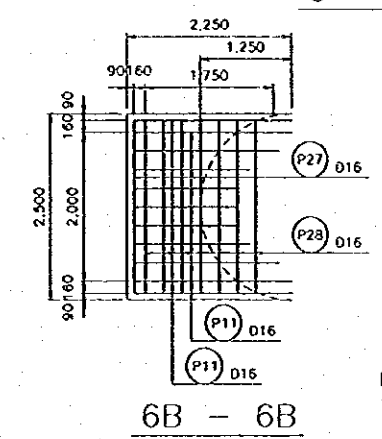
6 - 6



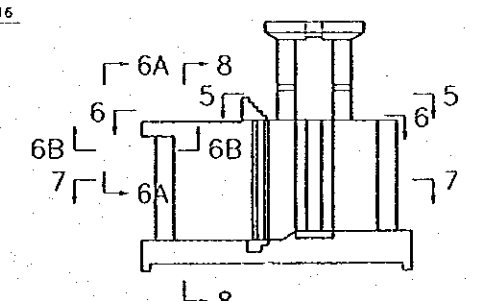
7 - 7



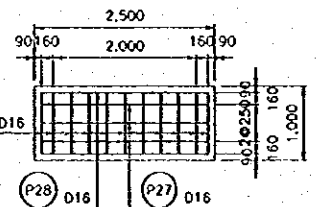
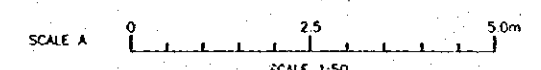
8 - 8



6B - 6B



KEY PLAN



6A - 6A

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THE REPUBLIC OF INDONESIA
 MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT

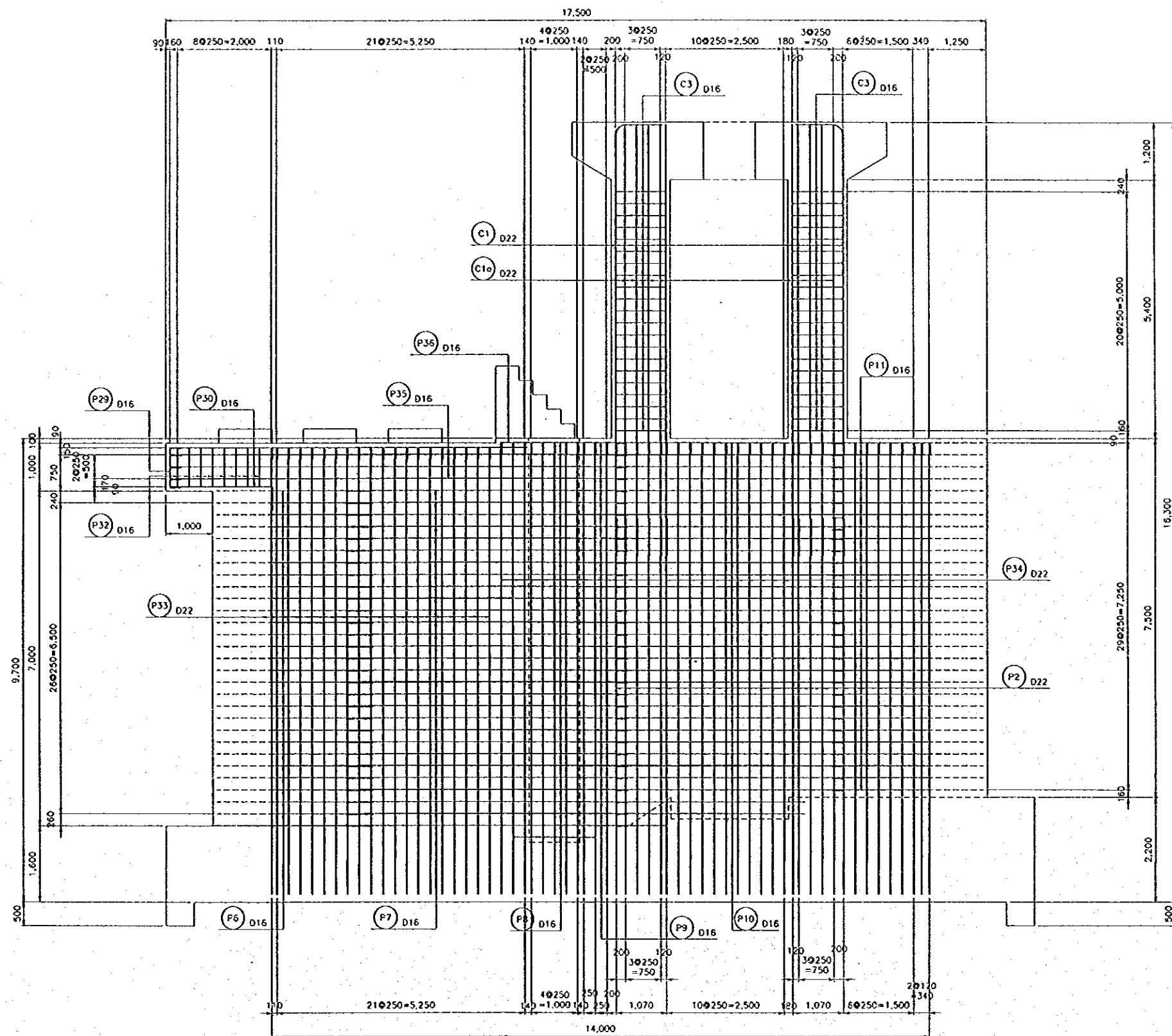
IRATUNSELUNA FLOOD CONTROL PROJECT
 COMPONENT : WEST FLOODWAY / GARANG RIVER IMPROVEMENT
 WEIR PIER, GATE FLOOR SLAB AND APRON
 REINFORCING BAR ARRANGEMENT FOR CENTER PIER (2 / 8)

JAPAN INTERNATIONAL COOPERATION AGENCY
 CIL ENGINEERING CO., LTD. IN ASSOCIATION WITH
 PACIFIC CONSULTANTS INTERNATIONAL AND
 PAKSI INTERNATIONAL INC.

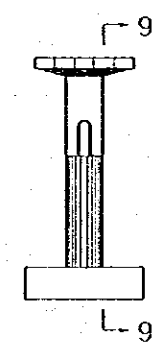
DESIGNED: [Signature]
 CHECKED: [Signature]
 CHIEF OF PLANNING AND DESIGN

PROVINCE: CENTRAL JAVA
 PROJECT NAME: FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA
 DISTRICT: SEMARANG CITY
 DRAWING NO. WG - P2 - WE - PE - 4
 SHEET NO. 11

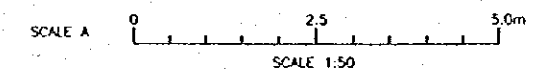
DATE: [Date]
 CONTRACT NO. [Contract No.]



9 - 9

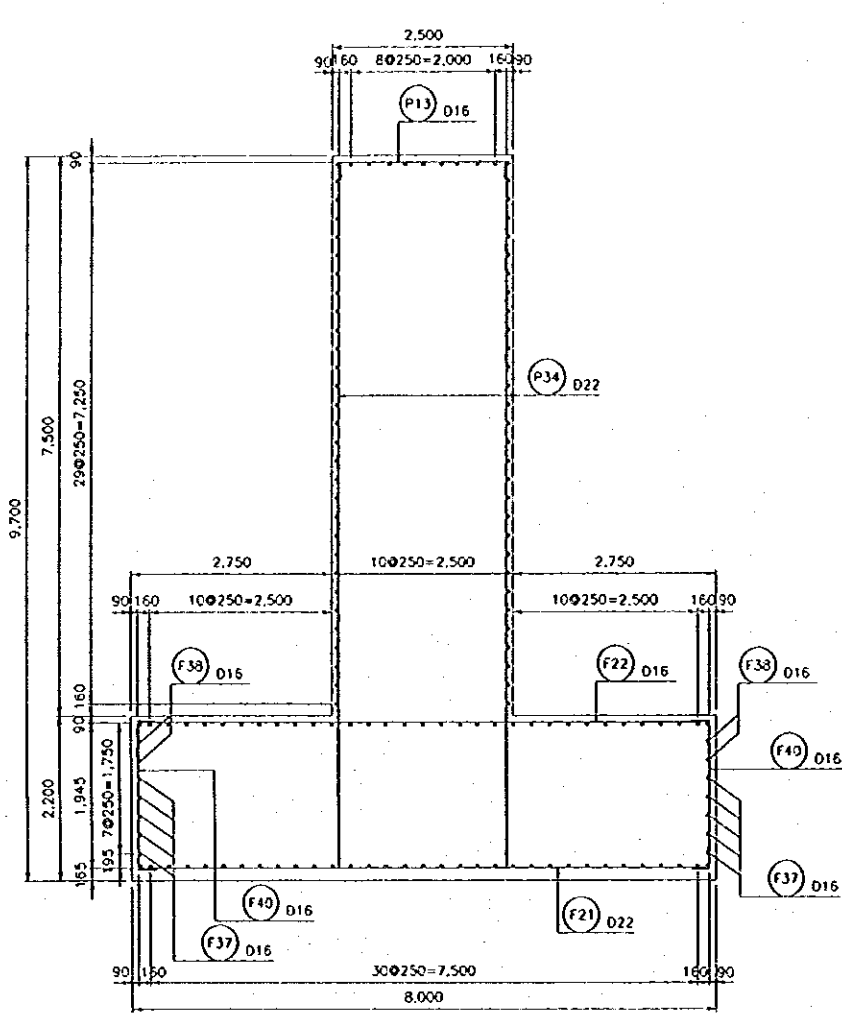


KEY PLAN

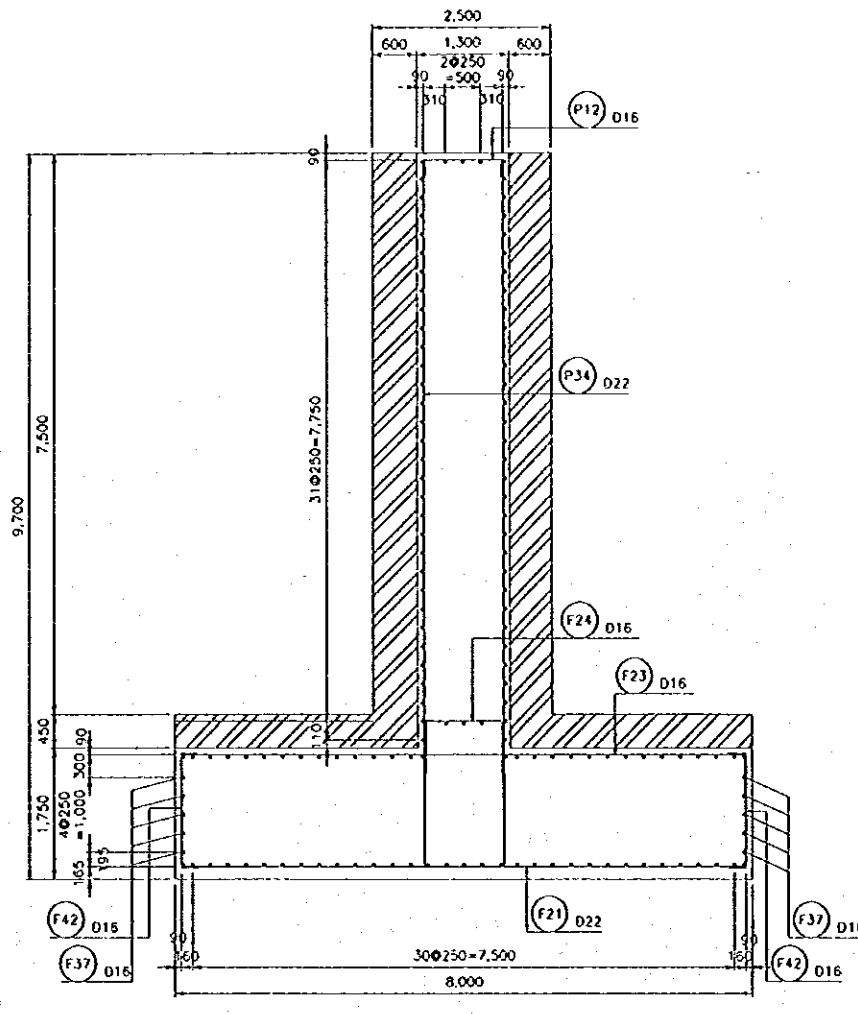


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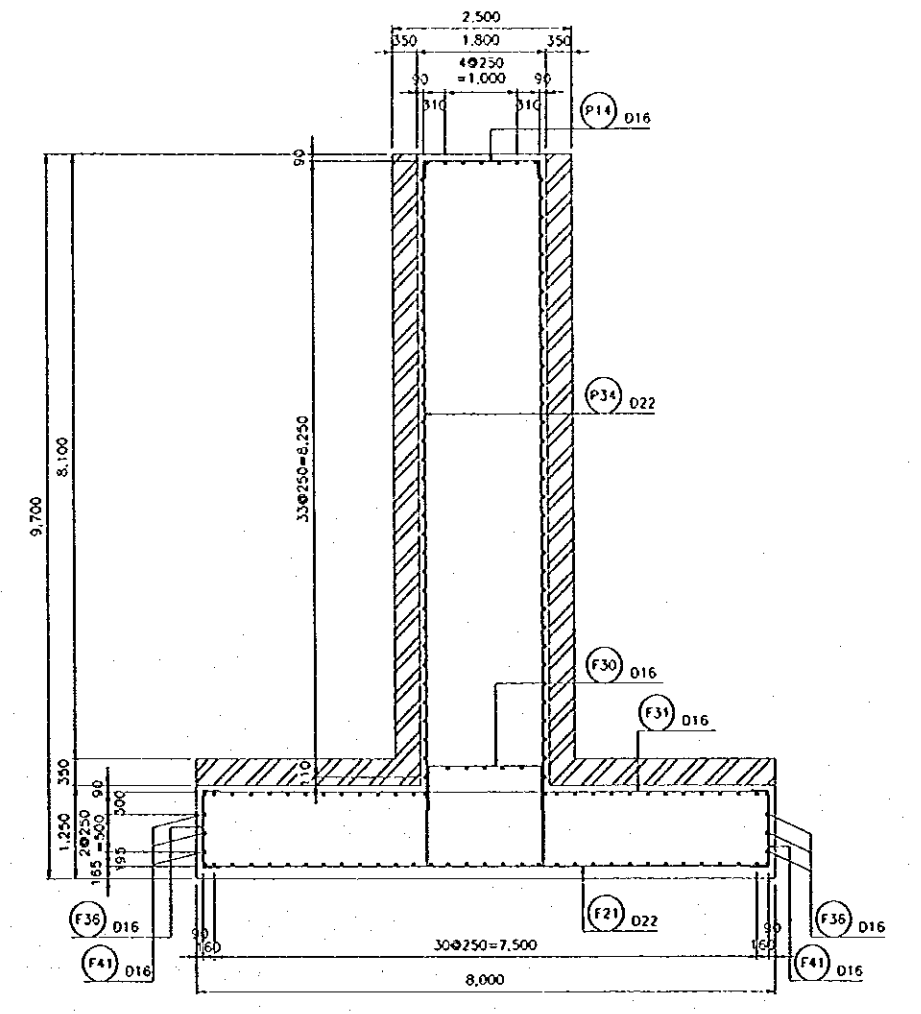
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| | THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT | | PROVINCE CENTRAL JAWA |
| | IRATUNSELUNA FLOOD CONTROL PROJECT COMPONENT : WEST FLOODWAY / GARANG RIVER IMPROVEMENT WEIR PIER, GATE FLOOR SLAB AND APRON REINFORCING BAR ARRANGEMENT FOR CENTER PIER (3 / 8) | | PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA |
| | LAFAYETTE INTERNATIONAL COOPERATION AGENCY CITI ENGINEERING CO., LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL AND PASCOTESTER/SALSALINE | | DISTRICT SEMARANG CITY |
| | DESIGNED CHECKED | APPROVED CHIEF OF PLANNING AND DESIGN PROJECT MANAGER | DRAWING NO W2 - 22 - WE - PE - 5 SHEET NO 20 DATE CONTRACTING |



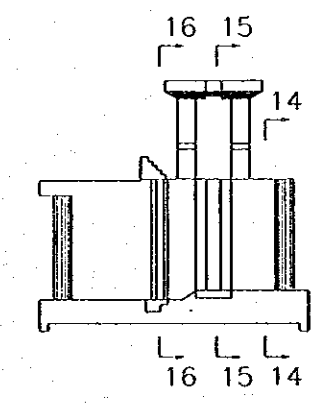
14 - 14



15 - 15



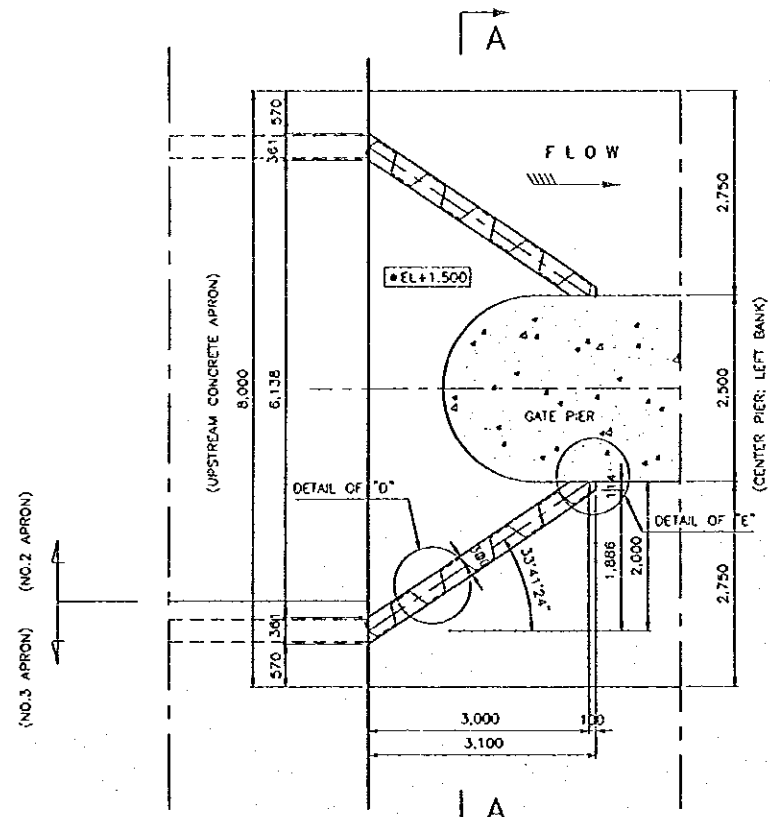
16 - 16



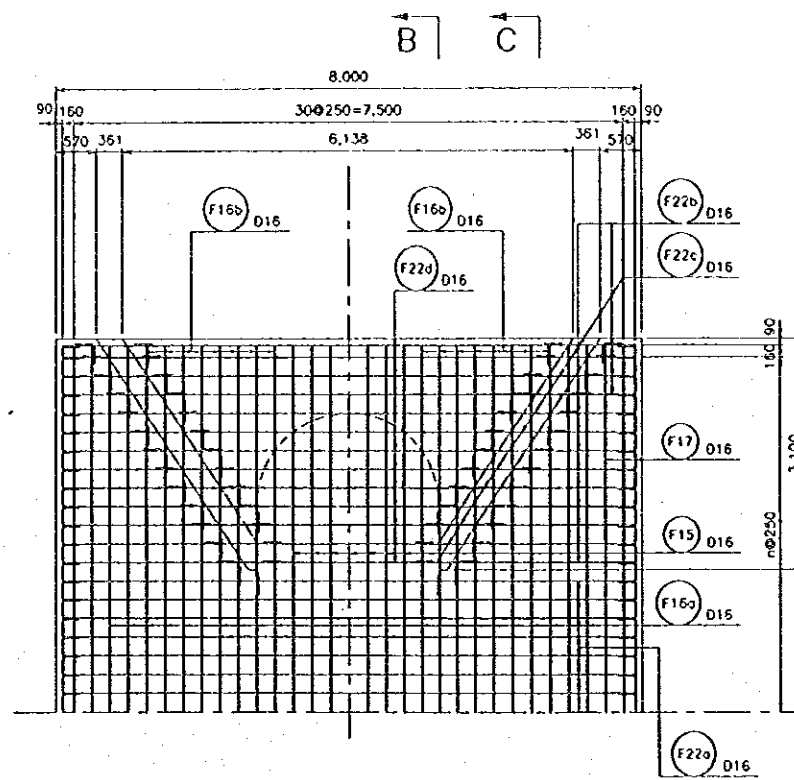
SCALE A 0 2.5 5.0m
SCALE 1:50

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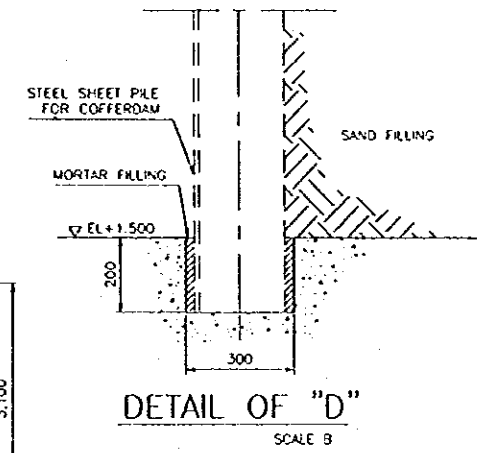
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| THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT | | PROVINCE CENTRAL JAVA |
| IRATUNSELUNA FLOOD CONTROL PROJECT COMPONENT : WEST FLOODWAY/GARANG RIVER IMPROVEMENT WEIR PIER, GATE FLOOR SLAB AND APRON REINFORCING BAR ARRANGEMENT FOR CENTER PIER(5/8) | | PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER SUPPLY DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA DISTRICT SEMARANG CITY |
| JAPAN INTERNATIONAL COOPERATION AGENCY CITI ENGINEERING CO., LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL INC. JABOD INTERCONSULTING INC. | | DRAWING NO. W9-P2-WE-AE-7 SHEET NO. 23 |
| DESIGNED CHECKED CHIEF OF PLANNING AND DESIGN PROJECT MANAGER | | DATE CONTRACT NO. |



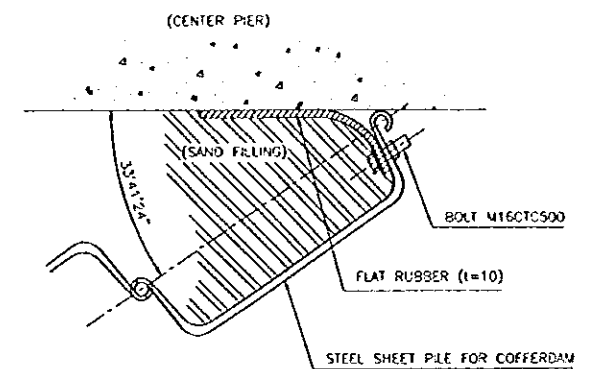
ARRANGEMENT OF SLIT FOR COFFERDAM
SCALE A



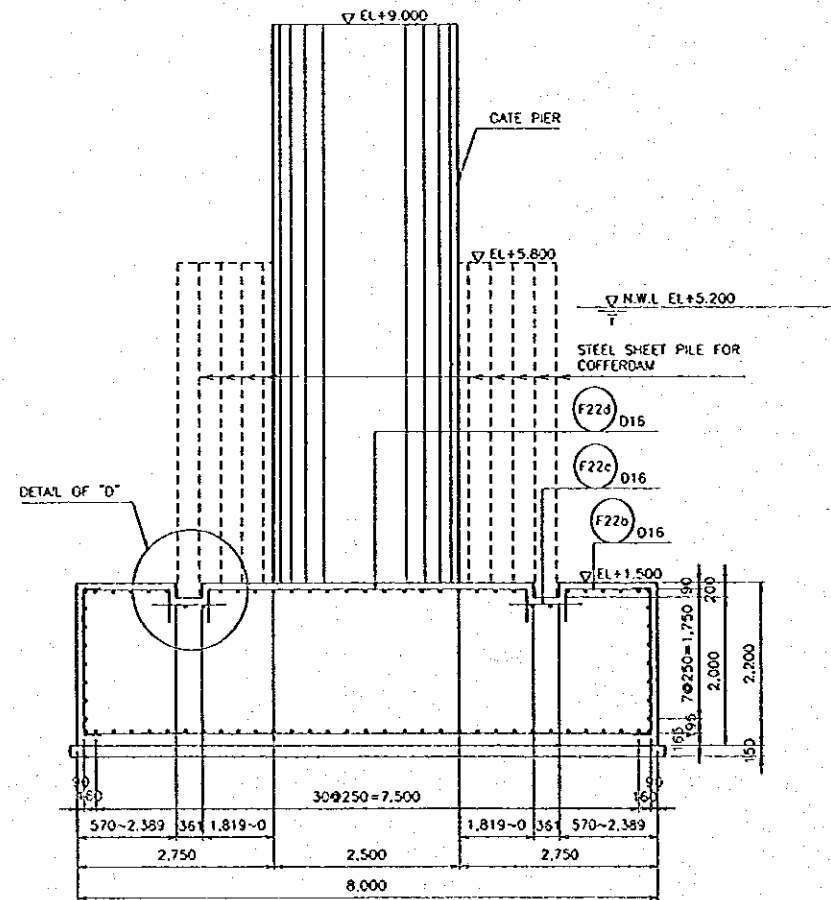
BAR ARRANGEMENT OF SLIT
SCALE A



DETAIL OF "D"
SCALE B

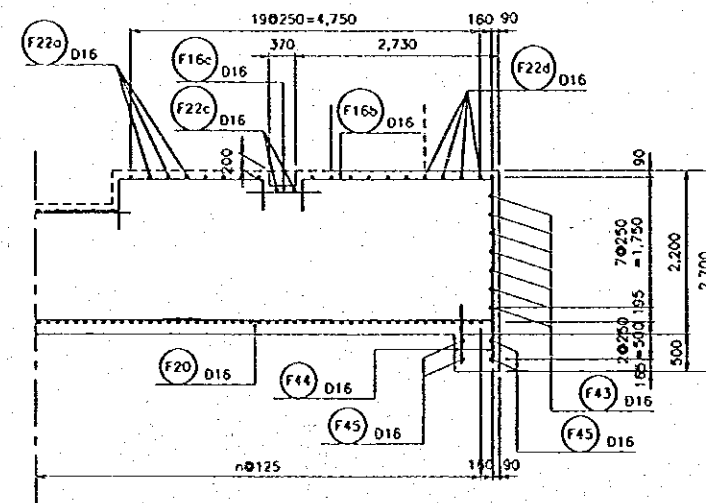


DETAIL OF "E"
SCALE C

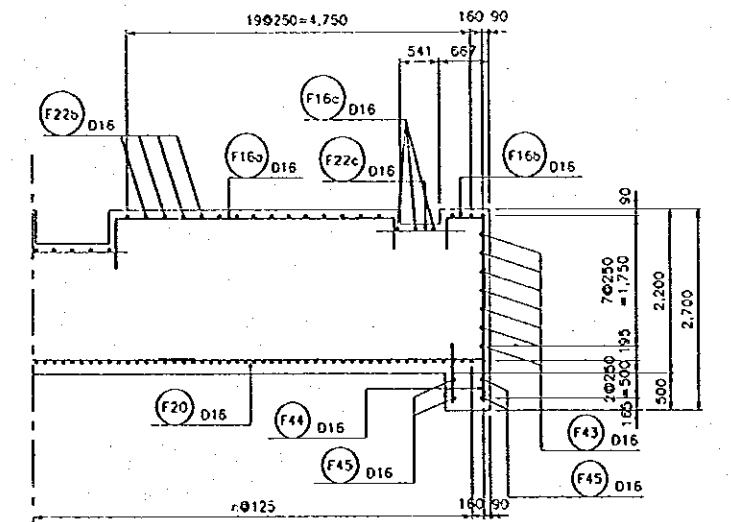


SECTION A-A
SCALE A

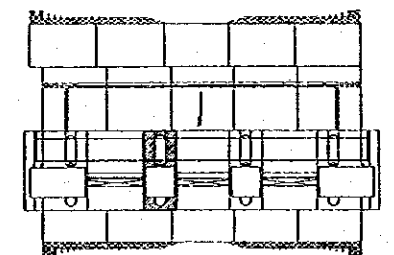
NOTE:
1. DETAIL OF "D" AND "E" ARE DRAWINGS FOR REFERENCE IN TERMS OF TEMPORARY COFFERDAM.



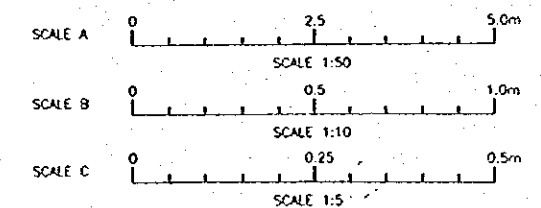
SECTION B-B
SCALE A



SECTION C-C
SCALE A

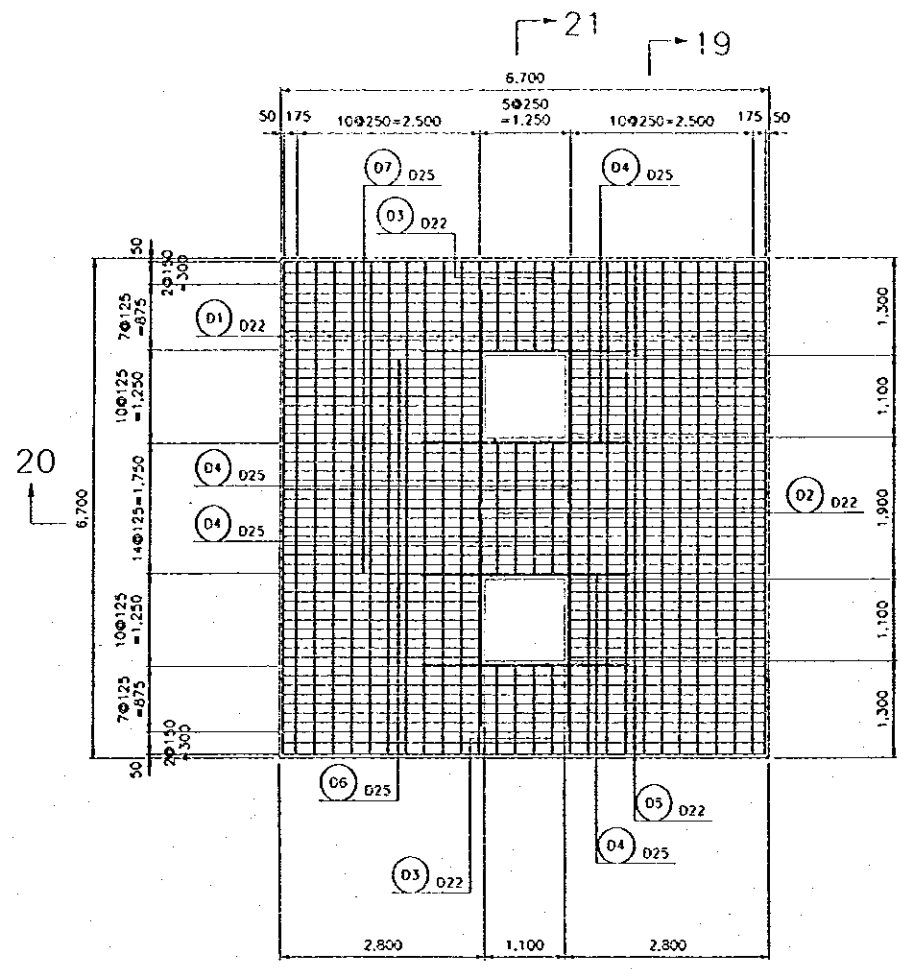


KEY PLAN

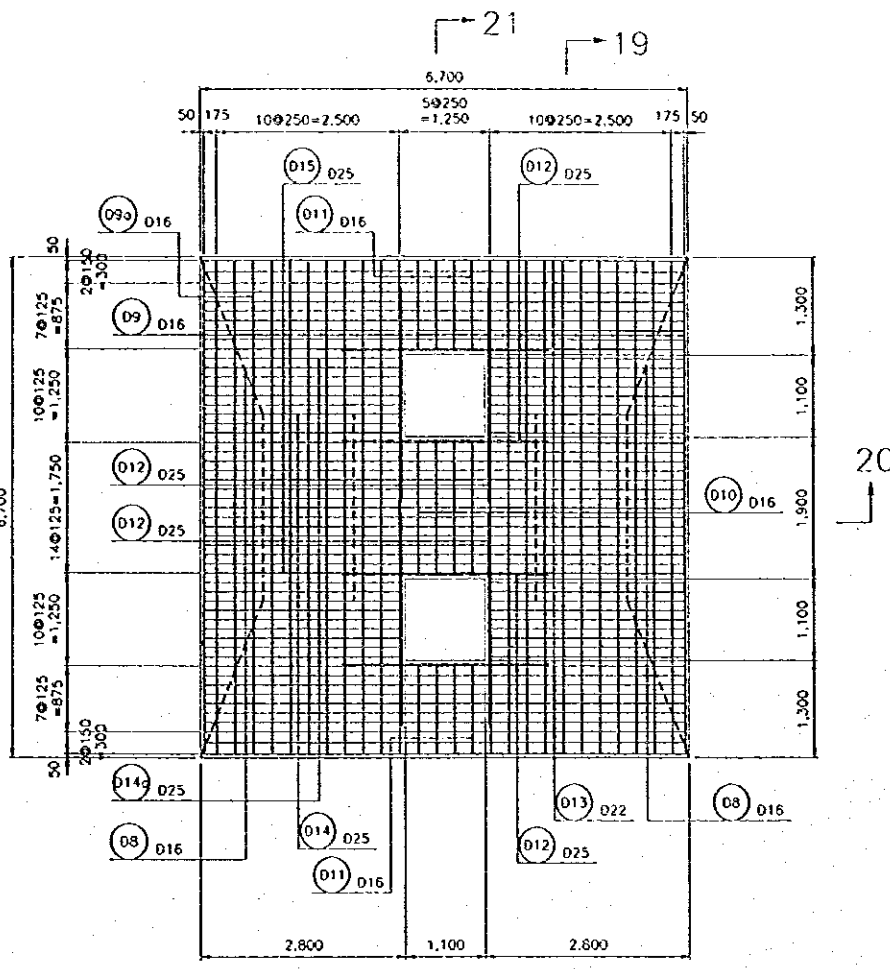


| NO. | DATE | REVISIONS | ORIGINATED | DESIGNED | APPROVED |
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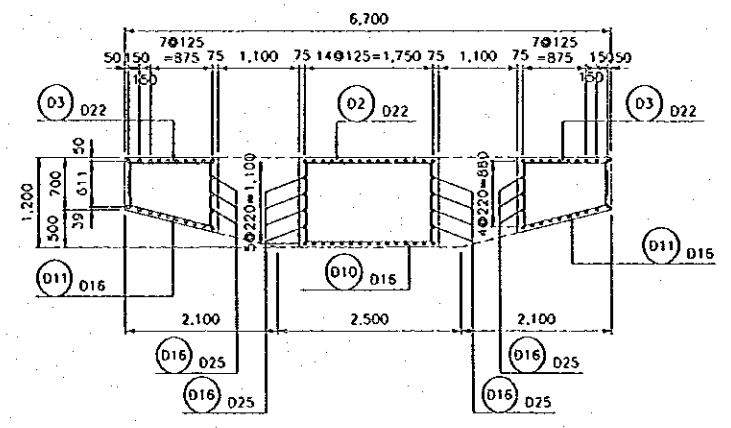
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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT | | PROVINCE: CENTRAL JAVA DISTRICT: SEMARANG CITY DRAWING NO. WG-P2-WE-PE-1 SHEET NO. 13 |
| IRATUNSELUNA FLOOD CONTROL PROJECT COMPONENT: WEST FLOODWAY / GARANG RIVER IMPROVEMENT WEIR PIER, GATE FLOOR SLAB AND APRON REINFORCING BAR ARRANGEMENT FOR CENTER PIER (6 / 8) | | PROJECT NAME: FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA DISTRICT: SEMARANG CITY DRAWING NO. WG-P2-WE-PE-1 SHEET NO. 13 |
| DESIGN: [Signature] CHECKED: [Signature] | DATE: [Signature] CONTRACT NO. | APPROVED: [Signature] CHIEF OF PLANNING AND DESIGN PROJECT MANAGER |



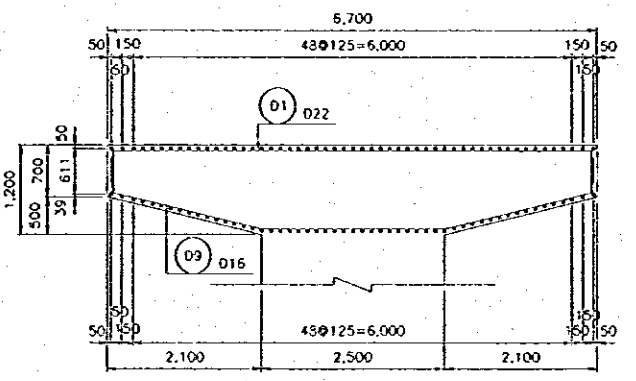
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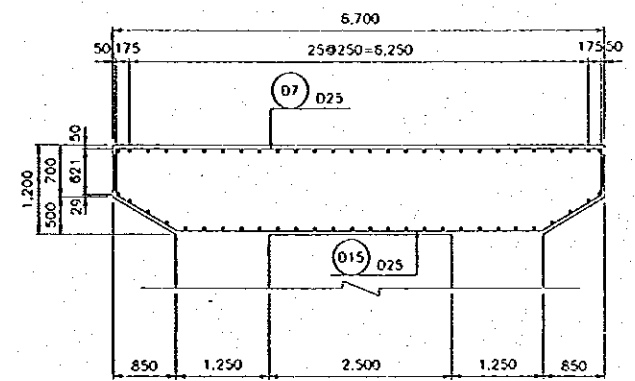
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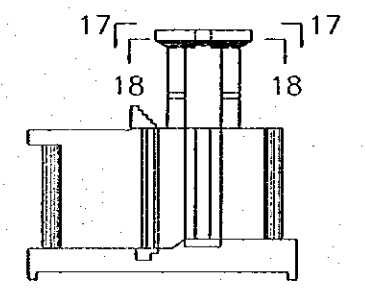
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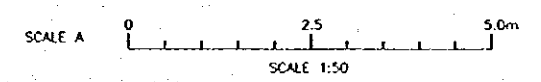
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20 - 20



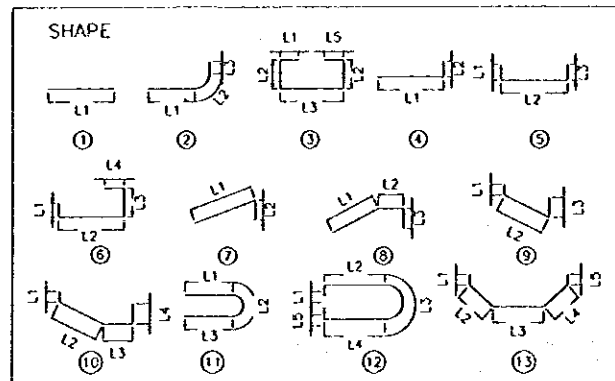
KEY PLAN



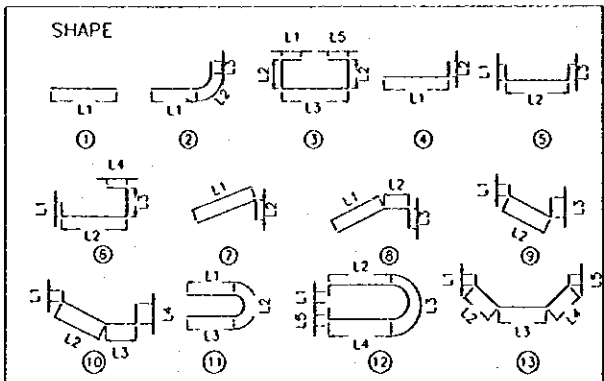
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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------|
| THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT | | PROVINCE CENTRAL JAVA |
| BRATUNSELUNA FLOOD CONTROL PROJECT COMPONENT : WEST FLOODWAY / GARANG RIVER IMPROVEMENT WEIR PIER, GATE FLOOR SLAB AND APRON REINFORCING BAR ARRANGEMENT FOR CENTER PIER (17/8) | | PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN BRATUNSELUNA IN THE REPUBLIC OF INDONESIA |
| JAPAN INTERNATIONAL COOPERATION AGENCY * * CTE ENGINEERING CO., LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL AND PAKSI INTERNATIONAL INC. | | DISTRICT SEMARANG CITY |
| DESIGNED CHECKED CHIEF OF PLANNING AND DESIGN PROJECT MANAGER | | DRAWING NO. WU-P2-WE-R8-9 SHEET NO. 24 DATE CONTRACT NO. |

| NO | DATE | REVISIONS | ORIGINATED | DESIGNED | APPROVED |
|----|------|-----------|------------|----------|----------|
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BAR BENDING SCHEDULE



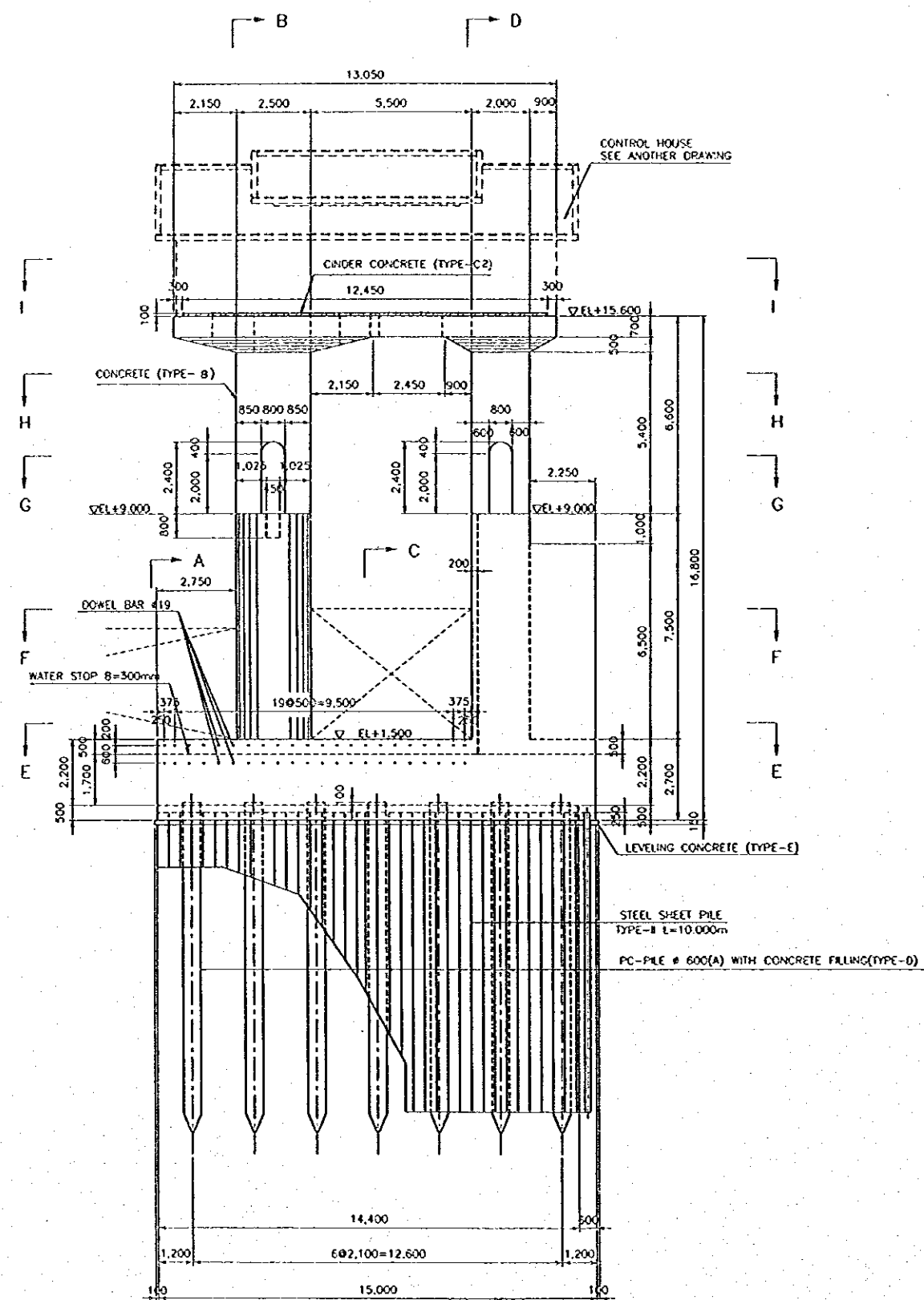
| TYPE | SHAPE | DA | NUMBER | LENGTH | L1 | L2 | L3 | L4 | L5 | R |
|------|-------|------|--------|--------|------|------|------|------|------|------|
| | | (mm) | | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) |
| C1 | 1 | 22 | 56 | 9300 | 9300 | | | | | |
| C1a | 2 | 22 | 24 | 9300 | 750 | 314 | 8300 | | | 200 |
| C2 | 1 | 16 | 12 | 4300 | 4000 | | | | | |
| C3 | 3 | 16 | 84 | 3340 | 1012 | 650 | 1050 | 850 | 278 | |
| C4 | 5 | 16 | 44 | 1520 | 278 | 950 | 278 | | | |
| C5 | 12 | 16 | 4 | 1350 | 278 | 1358 | 278 | | | |
| C6 | 1 | 16 | 4 | 900 | 900 | | | | | |
| P1 | 1 | 22 | 80 | 7750 | 7750 | | | | | |
| P2 | 1 | 18 | 12 | 8450 | 8445 | | | | | |
| P3 | 5 | 16 | 120 | 2260 | 278 | 1050 | 650 | 278 | | |
| P4 | 5 | 16 | 58 | 1520 | 278 | 950 | 278 | | | |
| P5 | 5 | 16 | 12 | 1520 | 278 | 950 | 278 | | | |
| P6 | 11 | 16 | 25 | 8200 | 1278 | 3543 | 1278 | | | |
| P7 | 4 | 16 | 58 | 4300 | 3753 | 900 | | | | |
| P8 | 1 | 16 | 68 | 1700 | 1700 | | | | | |
| P9 | 5 | 16 | 66 | 3720 | 500 | 1750 | 1300 | | | |
| P10 | 1 | 16 | 64 | 1300 | 1300 | | | | | |
| P11 | 11 | 16 | 60 | 12340 | 1300 | 2300 | 3245 | 2300 | 1300 | |
| P12 | 5 | 16 | 10 | 1950 | 278 | 1500 | 278 | | | |
| P13 | 5 | 16 | 13 | 2360 | 278 | 2300 | 278 | | | |
| P14 | 5 | 16 | 5 | 2100 | 278 | 1900 | 278 | | | |
| P15 | 5 | 16 | 4 | 1360 | 278 | 800 | 278 | | | |
| P16 | 5 | 16 | 3 | 2220 | 278 | 1900 | 278 | | | |
| P17 | 1 | 16 | 3 | 1560 | 1560 | | | | | |
| P18 | 5 | 16 | 3 | 9750 | 518 | 8360 | 278 | | | |
| P19 | 5 | 16 | 2 | 3740 | 278 | 3180 | 278 | | | |
| P20 | 5 | 16 | 4 | 1890 | 278 | 1600 | 278 | | | |
| P21 | 5 | 16 | 3 | 1270 | 278 | 750 | 278 | | | |
| P22 | 4 | 16 | 4 | 3270 | 518 | 2750 | | | | |
| P23 | 5 | 16 | 2 | 1290 | 818 | 480 | 278 | | | |
| P24 | 4 | 16 | 2 | 1250 | 278 | 970 | | | | |
| P25 | 1 | 16 | 8 | 7340 | 7340 | | | | | |
| P26 | 5 | 16 | 20 | 2960 | 278 | 2300 | 278 | | | |
| P27 | 5 | 16 | 3 | 2860 | 278 | 2300 | 278 | | | |
| P28 | 1 | 16 | 17 | 2300 | 2300 | | | | | |
| P29 | 5 | 16 | 11 | 1360 | 278 | 800 | 278 | | | |
| P30 | 4 | 16 | 2 | 2570 | 2150 | 518 | | | | |
| P31 | 4 | 16 | 9 | 2430 | 1915 | 518 | | | | |
| P32 | 5 | 16 | 15 | 1360 | 278 | 800 | 278 | | | |
| P33 | 1 | 16 | 40 | 9300 | 8345 | | | | | |
| P34 | 1 | 16 | 60 | 9450 | 8445 | | | | | |
| P34a | 1 | 16 | 14 | 9350 | 8345 | | | | | |
| P34b | 1 | 16 | 14 | 9450 | 8445 | | | | | |
| P35 | 4 | 16 | 4 | 8200 | 7500 | 518 | | | | |
| P36 | 5 | 16 | 2 | 1580 | 518 | 480 | 580 | | | |
| D1 | 5 | 22 | 24 | 7460 | 457 | 6572 | 457 | | | |
| D2 | 5 | 22 | 4 | 3140 | 711 | 1722 | 711 | | | |
| D3 | 5 | 22 | 8 | 2770 | 591 | 1722 | 457 | | | |
| D4 | 1 | 25 | 8 | 2700 | 2700 | | | | | |
| D5 | 5 | 22 | 20 | 7500 | 454 | 6572 | 454 | | | |
| D6 | 5 | 25 | 36 | 3300 | 472 | 2841 | 721 | | | |
| D7 | 5 | 22 | 15 | 7340 | 484 | 6572 | 484 | | | |
| D8 | 13 | 16 | 2 | 8000 | 478 | 2274 | 2500 | 2274 | 478 | |
| D9 | 13 | 16 | 16 | 7750 | 471 | 2154 | 2500 | 2154 | 471 | |
| D9a | 13 | 16 | 8 | 7380 | 471 | 1977 | 2500 | 1977 | 471 | |



| TYPE | SHAPE | DA | NUMBER | LENGTH | L1 | L2 | L3 | L4 | L5 | R |
|------|-------|------|--------|--------|-------|------|------|------|------|------|
| | | (mm) | | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) |
| D10 | 5 | 16 | 4 | 3140 | 706 | 1730 | 706 | | | |
| D11 | 9 | 16 | 8 | 2772 | 471 | 1222 | 506 | | | |
| D12 | 1 | 25 | 8 | 2700 | 2700 | | | | | |
| D13 | 9 | 22 | 20 | 7850 | 478 | 1927 | 1927 | 478 | | |
| D14 | 10 | 25 | 24 | 4070 | 456 | 1927 | 1927 | 456 | | |
| D14a | 10 | 25 | 12 | 4030 | 456 | 1927 | 1927 | 456 | | |
| D15 | 13 | 25 | 12 | 7850 | 456 | 1927 | 1927 | 456 | | |
| D16 | 1 | 25 | 14 | 8900 | 8900 | | | | | |
| D16a | 1 | 25 | 8 | 8900 | 8900 | | | | | |
| F1 | 4 | 16 | 34 | 5390 | 4190 | 928 | | | | |
| F2 | 4 | 16 | 12 | 4310 | 3750 | 560 | | | | |
| F3 | 4 | 16 | 14 | 4770 | 4190 | 580 | | | | |
| F4 | 1 | 16 | 8 | 6290 | 6290 | | | | | |
| F5 | 1 | 16 | 6 | 1790 | 1790 | | | | | |
| F6 | 1 | 16 | 14 | 1360 | 1360 | | | | | |
| F7 | 1 | 16 | 6 | 2160 | 2160 | | | | | |
| F8 | 4 | 16 | 20 | 1790 | 500 | 1290 | | | | |
| F9a | 4 | 16 | 6 | 1300 | 500 | 800 | | | | |
| F9b | 7 | 16 | 6 | 2513 | 1322 | 665 | | | | |
| F10 | 8 | 16 | 16 | 3400 | 1322 | 1400 | 880 | | | |
| F11 | 8 | 16 | 6 | 3150 | 1322 | 1150 | 880 | | | |
| F12 | 1 | 16 | 6 | 3100 | 3100 | | | | | |
| F13 | 1 | 16 | 18 | 1880 | 1880 | | | | | |
| F14 | 1 | 16 | 6 | 2180 | 2180 | | | | | |
| F15 | 8 | 16 | 6 | 10190 | 1322 | 7650 | 1203 | | | |
| F16 | 4 | 16 | 22 | 4290 | 5080 | 1203 | | | | |
| F17 | 4 | 16 | 6 | 5100 | 4800 | 1203 | | | | |
| F18 | 4 | 16 | 34 | 5820 | 903 | 4720 | | | | |
| F19 | 1 | 16 | 34 | 10200 | 10200 | | | | | |
| F20 | 4 | 16 | 34 | 8320 | 1203 | 4720 | | | | |
| F21 | 1 | 16 | 147 | 7520 | 7520 | | | | | |
| F22 | 1 | 16 | 20 | 7820 | 7820 | | | | | |
| F23 | 4 | 16 | 10 | 3520 | 3340 | 278 | | | | |
| F24 | 5 | 16 | 11 | 2480 | 680 | 1400 | 680 | | | |
| F25 | 1 | 16 | 12 | 1290 | 1290 | | | | | |
| F26 | 4 | 16 | 10 | 3240 | 680 | 2560 | | | | |
| F27 | 5 | 16 | 1 | 7580 | 680 | 5800 | 680 | | | |
| F28 | 1 | 16 | 2 | 3310 | 680 | 1950 | 680 | | | |
| F29 | 1 | 16 | 38 | 7820 | 7820 | | | | | |
| F30 | 5 | 16 | 5 | 2790 | 580 | 1600 | 580 | | | |
| F31 | 4 | 16 | 6 | 3370 | 3080 | 278 | | | | |
| F32 | 5 | 16 | 4 | 2640 | 580 | 1650 | 580 | | | |
| F33 | 1 | 16 | 4 | 1280 | 1280 | | | | | |
| F34 | 5 | 16 | 6 | 2670 | 920 | 1475 | 278 | | | |
| F34a | 5 | 16 | 4 | 2170 | 920 | 975 | 278 | | | |
| F35 | 1 | 16 | 10 | 7500 | 7500 | | | | | |
| F36 | 1 | 16 | 6 | 2840 | 2840 | | | | | |
| F37 | 1 | 16 | 53 | 9120 | 9120 | | | | | |
| F38 | 1 | 16 | 4 | 4820 | 4820 | | | | | |
| F38a | 1 | 16 | 4 | 1810 | 1810 | | | | | |
| F39 | 5 | 16 | 80 | 1880 | 278 | 1325 | 278 | | | |
| F40 | 5 | 16 | 48 | 2480 | 278 | 1925 | 278 | | | |
| F41 | 5 | 16 | 8 | 1500 | 278 | 975 | 278 | | | |
| F42 | 5 | 16 | 10 | 2030 | 278 | 1475 | 278 | | | |
| F43 | 5 | 16 | 12 | 8300 | 278 | 7800 | 278 | | | |
| F44 | 1 | 16 | 138 | 740 | 740 | | | | | |
| F45 | 5 | 16 | 8 | 8480 | 330 | 7800 | 330 | | | |

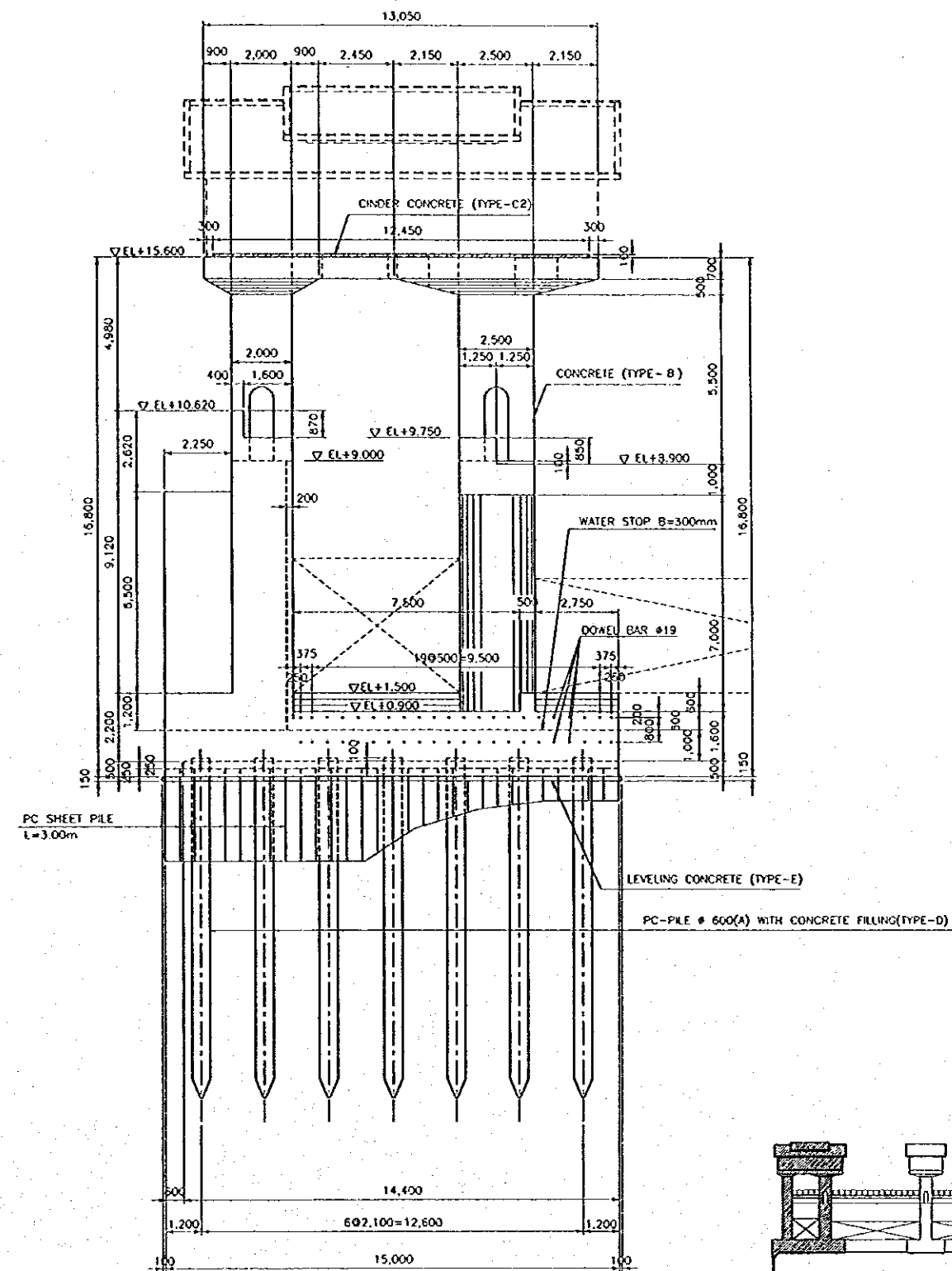
BAR WEIGHT

| TYPE | DA | LENGTH | NUMBER | WEIGHT PER 'M' | WEIGHT PER BAR | WEIGHT (kg) | SHAPE |
|------|------|--------|--------|----------------|----------------|-------------|-------|
| | (mm) | (mm) | | kg/m | kg | | |
| C1 | 22 | 9300 | 56 | 304 | 2976 | 153216 | |
| C1a | 22 | 9800 | 24 | 304 | 2976 | 71424 | |
| C2 | 16 | 4300 | 12 | 156 | 633 | 7596 | |
| C3 | 16 | 3340 | 84 | 156 | 558 | 46872 | |
| C4 | 16 | 1520 | 44 | 156 | 237 | 10433 | |
| C5 | 16 | 1350 | 4 | 156 | 374 | 1217 | |
| C6 | 16 | 900 | 4 | 156 | 153 | 612 | |
| P1 | 22 | 7750 | 80 | 304 | 2356 | 188480 | |
| P2 | 16 | 8450 | 12 | 156 | 1474 | 17688 | |
| P3 | 16 | 2260 | 120 | 156 | 353 | 42360 | |
| P4 | 16 | 1520 | 58 | 156 | 237 | 13753 | |
| P5 | 16 | 1350 | 12 | 156 | 237 | 2844 | |
| P6 | 16 | 6200 | 29 | 156 | 957 | 26849 | |
| P7 | 16 | 4300 | 58 | 156 | 675 | 36178 | |
| P8 | 16 | 1700 | 68 | 156 | 275 | 18679 | |
| P9 | 16 | 3740 | 85 | 156 | 530 | 36101 | |
| P10 | 16 | 3160 | 64 | 156 | 439 | 31540 | |
| P11 | 16 | 12340 | 60 | 156 | 1939 | 116366 | |
| P12 | 16 | 1950 | 10 | 156 | 250 | 2500 | |
| P13 | 16 | 2360 | 13 | 156 | 445 | 5600 | |
| P14 | 16 | 2160 | 5 | 156 | 337 | 1685 | |
| P15 | 16 | 1360 | 4 | 156 | 212 | 848 | |
| P16 | 16 | 2220 | 3 | 156 | 345 | 1035 | |
| P17 | 16 | 1360 | 3 | 156 | 243 | 730 | |
| P18 | 16 | 9750 | 3 | 156 | 1521 | 4563 | |
| P19 | 16 | 3740 | 2 | 156 | 583 | 1166 | |
| P20 | 16 | 1890 | 4 | 156 | 544 | 2176 | |
| P21 | 16 | 1270 | 3 | 156 | 198 | 594 | |
| P22 | 16 | 3270 | 4 | 156 | 510 | 2040 | |
| P23 | 16 | 1280 | 2 | 156 | 200 | 396 | |
| P24 | 16 | 1250 | 2 | 156 | 195 | 390 | |
| P25 | 16 | 7340 | 9 | 225 | 1652 | 14864 | |
| P26 | 16 | 2960 | 20 | 156 | 445 | 8900 | |
| P27 | 16 | 2860 | 3 | 156 | 445 | 1335 | |
| P28 | 16 | 2300 | 17 | 156 | 359 | 6103 | |
| P29 | 16 | 1300 | 11 | 156 | 212 | 2334 | |
| P30 | 16 | 2670 | 2 | 156 | 417 | 834 | |
| P31 | 16 | 2400 | 9 | 156 | 379 | 3412 | |
| P32 | 16 | 1360 | 16 | 156 | 212 | 3392 | |
| P33 | 16 | 9350 | 40 | 156 | 1459 | 58344 | |
| P34 | 16 | 9450 | 60 | 156 | 1474 | 88440 | |
| P34a | 16 | 9350 | 14 | 156 | 1459 | 20426 | |
| P34b | 16 | 9450 | 14 | 156 | 1474 | 20638 | |
| P35 | 16 | 8320 | 5 | 156 | 1251 | 10008 | |
| P36 | 16 | 1580 | 2 | 156 | 245 | 490 | |
| D1 | 22 | 7460 | 24 | 304 | 2277 | 54648 | |
| D2 | 22 | 3140 | 4 | 304 | 855 | 3418 | |
| D3 | 22 | 2770 | 8 | 304 | 842 | 6736 | |
| D4 | 25 | 2700 | 8 | 338 | 1075 | 8597 | |
| D5 | 22 | 7500 | 20 | | | | |

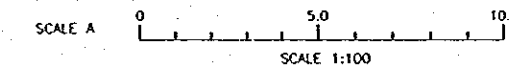
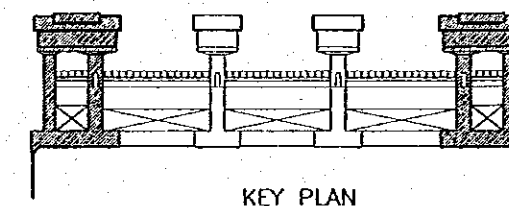


UPSTREAM ELEVATION OF END PIER
SCALE A

NOTE :
PILE LENGTH SHOWN ON THE DRAWING IS TENTATIVE.
THE CONTRACTOR SHALL DETERMINE THE LENGTH OF PILE BY TEST PILING.

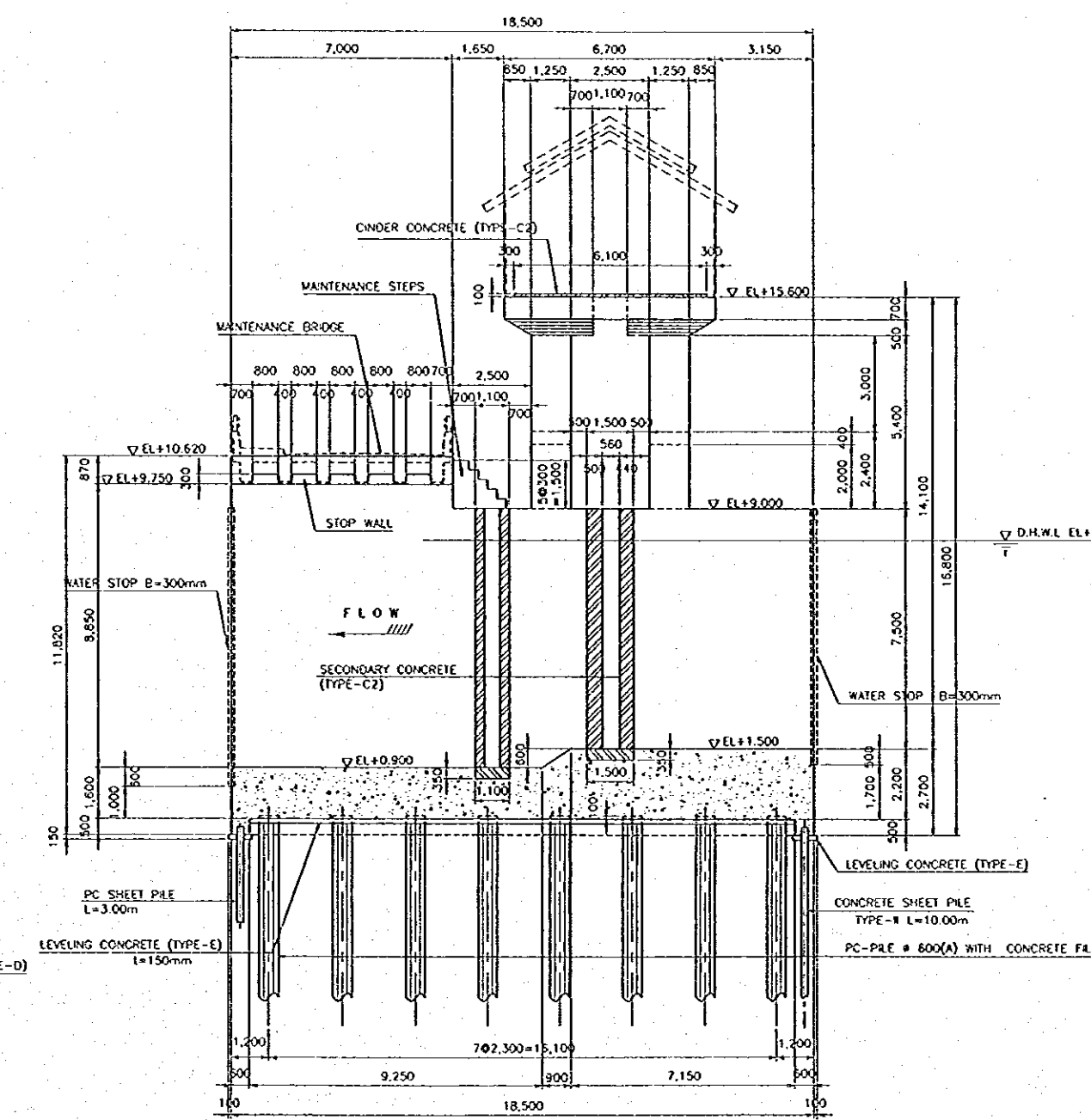
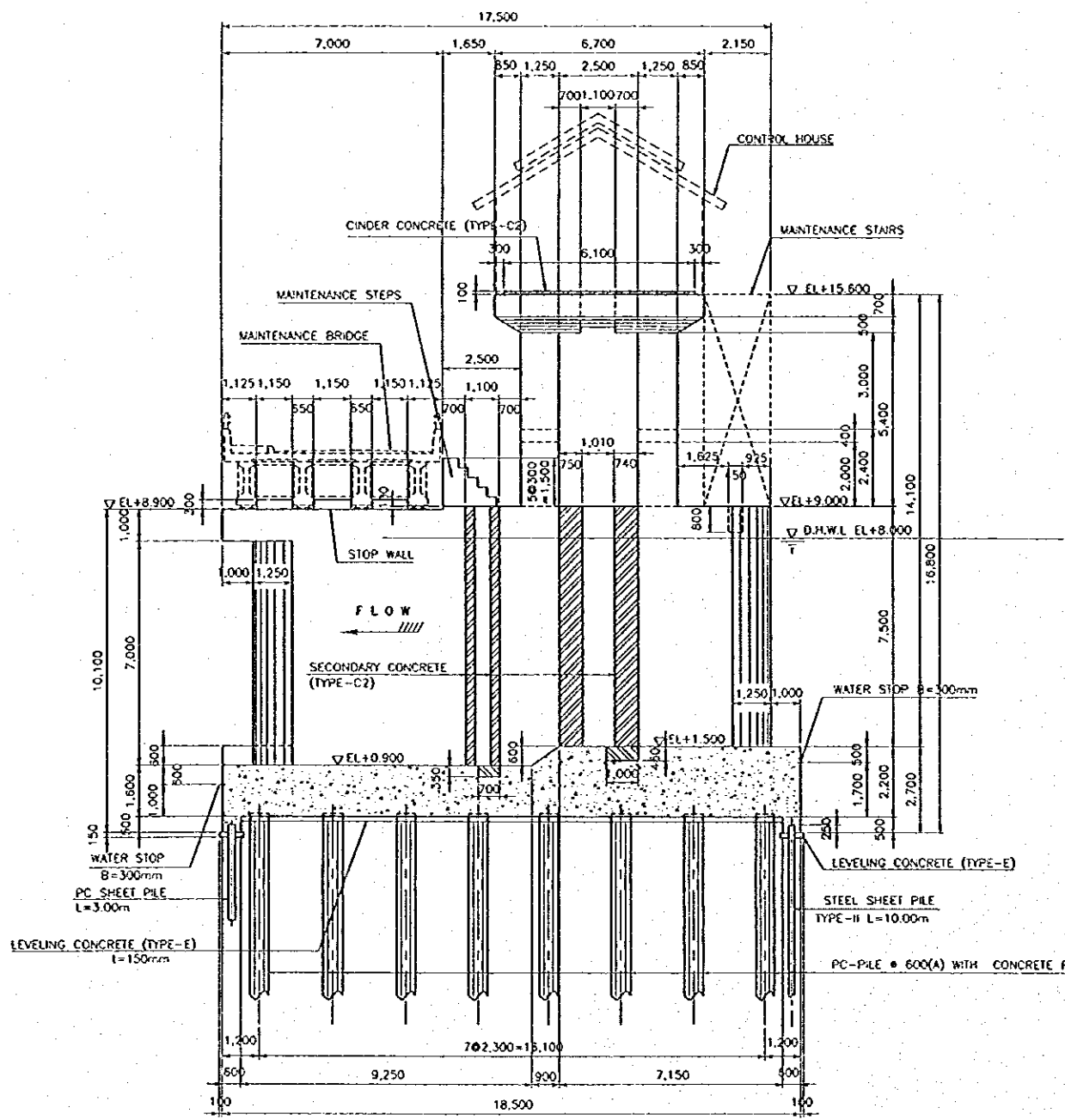
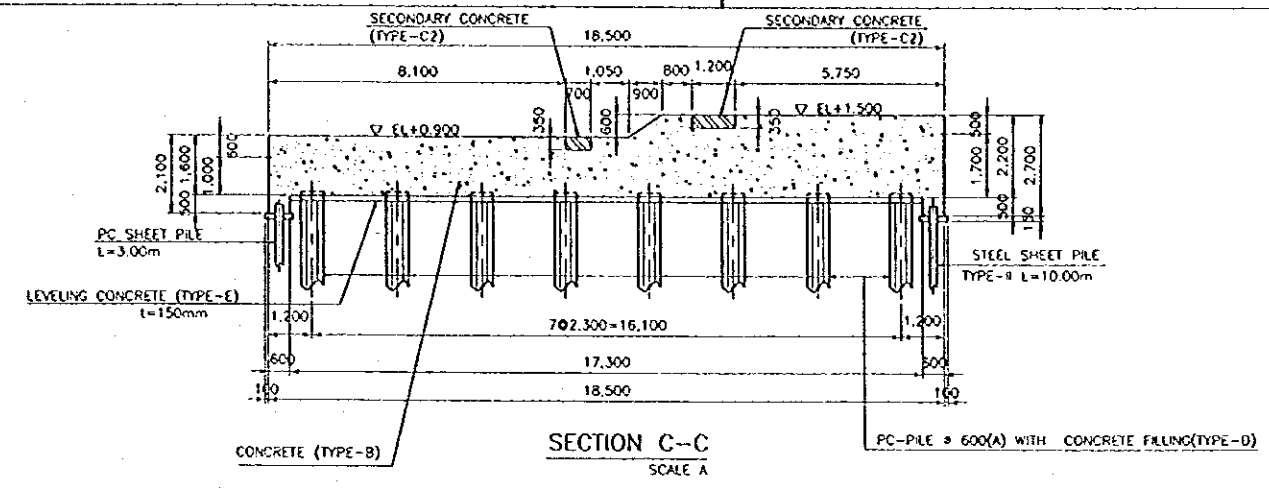
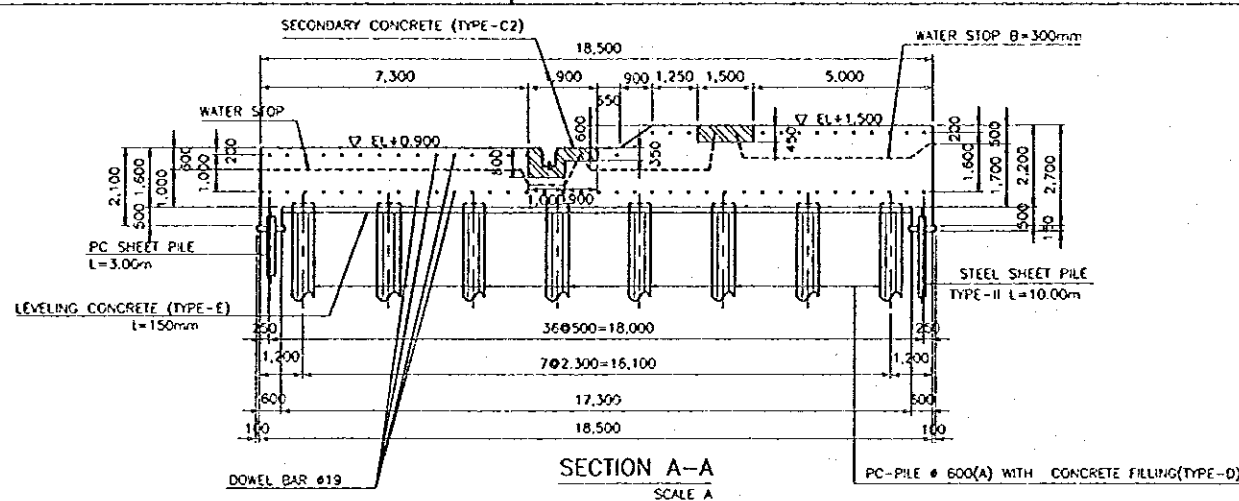


DOWNSTREAM ELEVATION OF END PIER
SCALE A



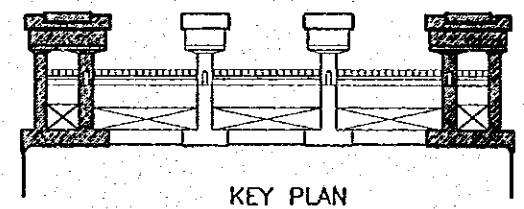
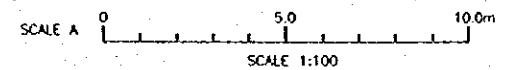
| NO. | DATE | REVISIONS | ORIGINATED | DESIGNED | APPROVED |
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|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------|
| | THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT | | PROVINCE CENTRAL JAVA |
| | JATUNSELUNA FLOOD CONTROL PROJECT COMPONENT : WEST FLOODWAY / GARANG RIVER IMPROVEMENT WEIR PIER, GATE FLOOR SLAB AND APRON END PIER (1/3) | | PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA |
| | JAPAN INTERNATIONAL COOPERATION AGENCY CTE ENGINEERING CO., LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL AND PAKSI INTERNATIONAL, INC. | | DISTRICT SEMARANG CITY |
| | DESIGNED CHECKED CHIEF OF PLANNING AND DESIGN | | DRAWING NO. W6-P2-WE-51-II SHEET NO. 16 DATE CONTRACT NO. |



SECTION B-B
SCALE A

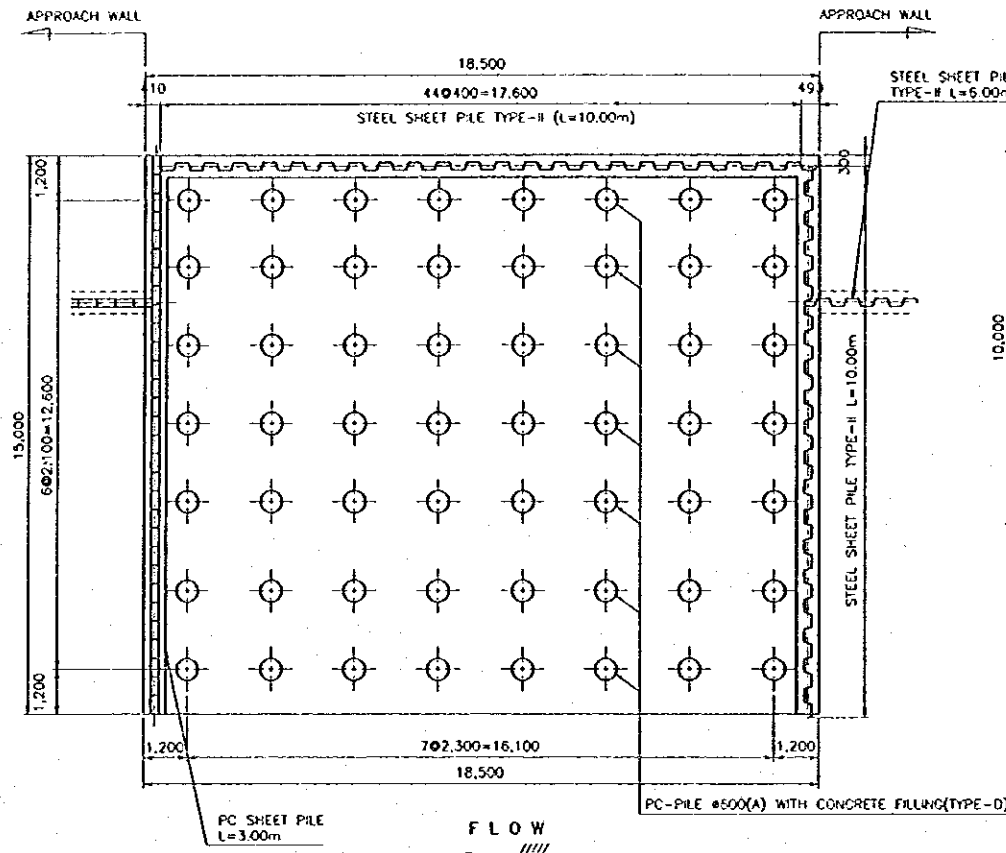
SECTION D-D
SCALE A



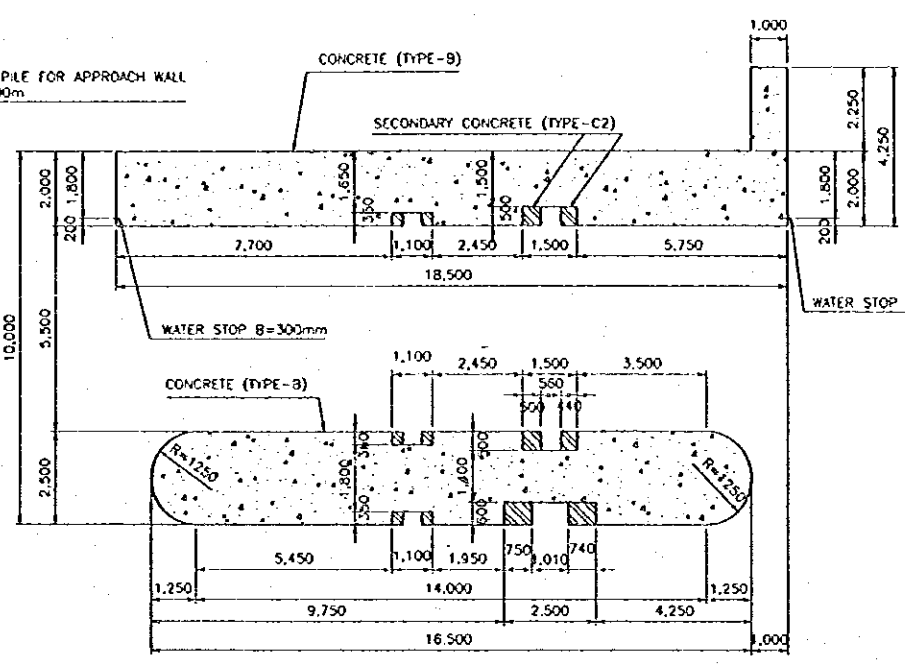
KEY PLAN

| NO | DATE | REVISOR | ORIGINATED | DESIGNED | APPROVED |
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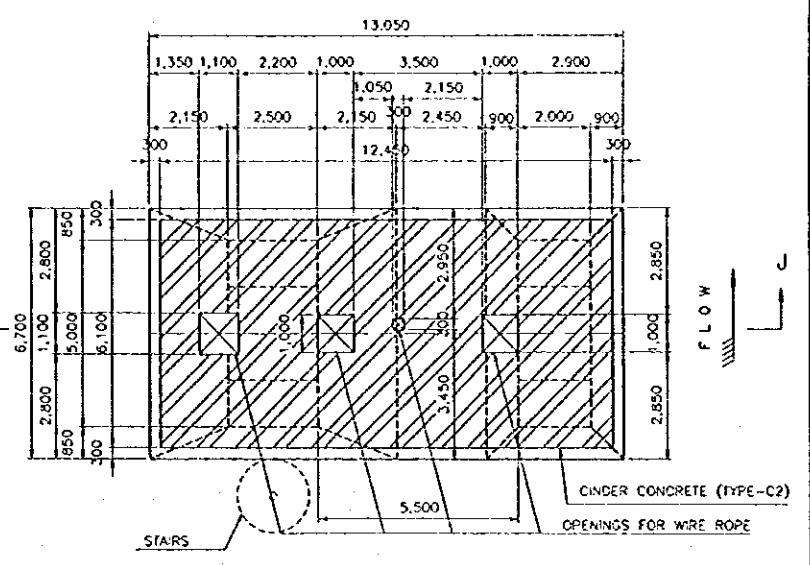
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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------|
| THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT | | PROVINCE CENTRAL JAVA |
| IRATUNSELUNA FLOOD CONTROL PROJECT COMPONENT: WEST FLOODWAY / GARANG RIVER IMPROVEMENT WEIR PIER, GATE FLOOR SLAB AND APRON END PIER (2/3) | | PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SOERABAYA IN THE REPUBLIC OF INDONESIA |
| TAPAN ENVESTMENTAL COOPERATION AGENCY PT. ENDEKINDO CO. LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL AND PAKCO INTERNATIONAL INC. | | DISTRICT SEMARANG CITY |
| DESIGNED: [Signature] CHECKED: [Signature] | | DRAWING NO. WG - PE - BE - 51 - 12 SHEET NO. 31 |
| CHIEF OF PLANNING AND DESIGN | | DATE CONTRACT NO. |
| APPROVED: [Signature] PROJECT MANAGER | | |



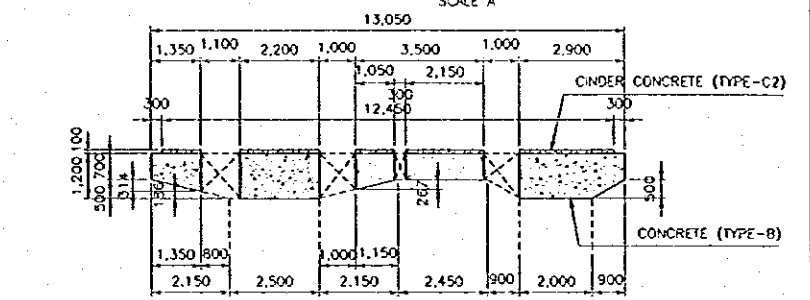
PILE ARRANGEMENT OF END PIER
SCALE A



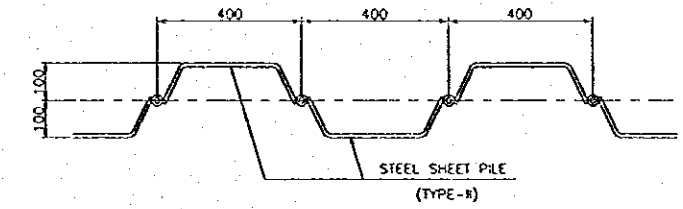
SECTION F-F
SCALE A



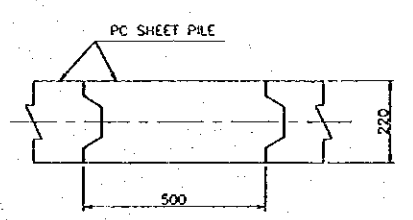
SECTION I-I
SCALE A



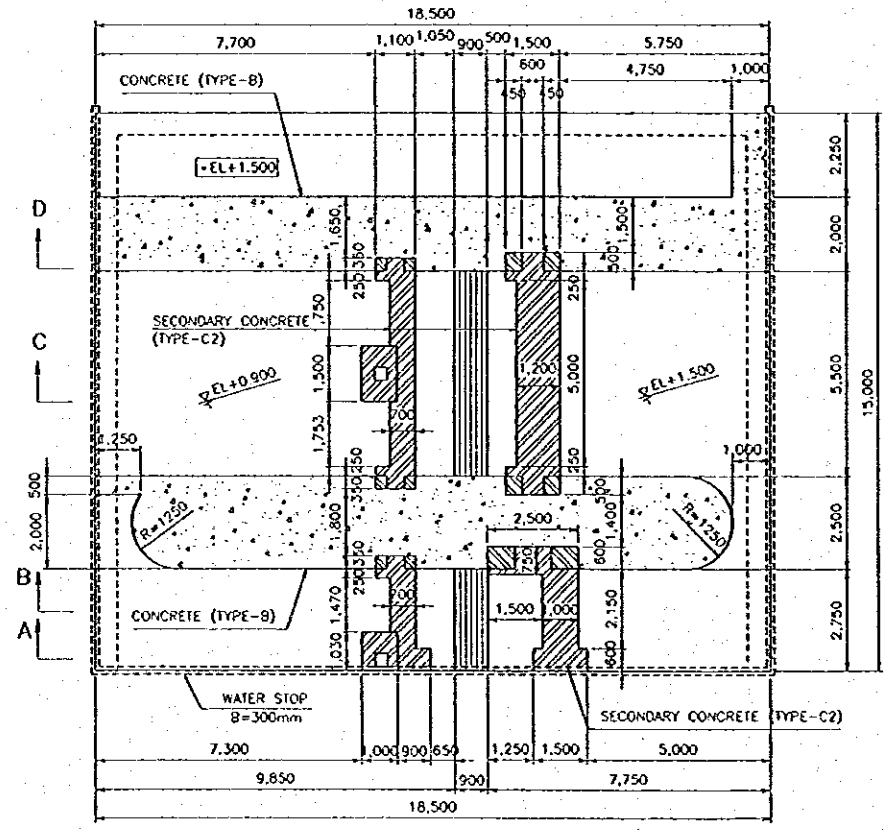
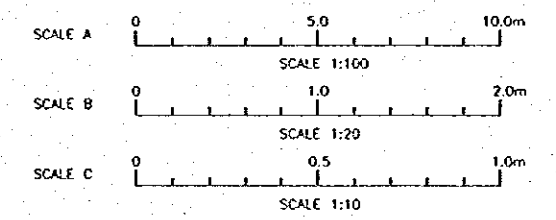
SECTION J-J
SCALE A



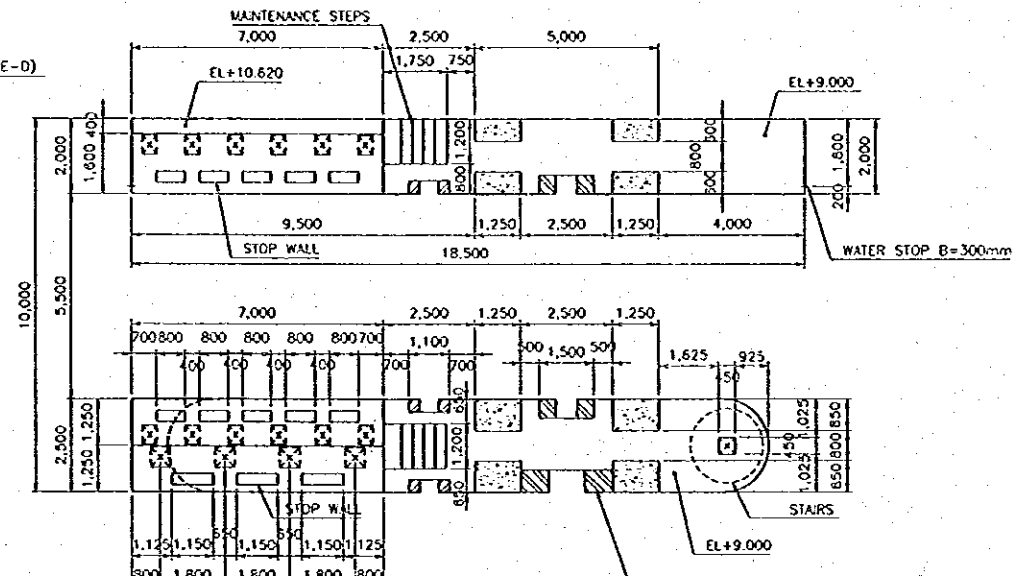
SECTION OF STEEL SHEET PILE
SCALE C



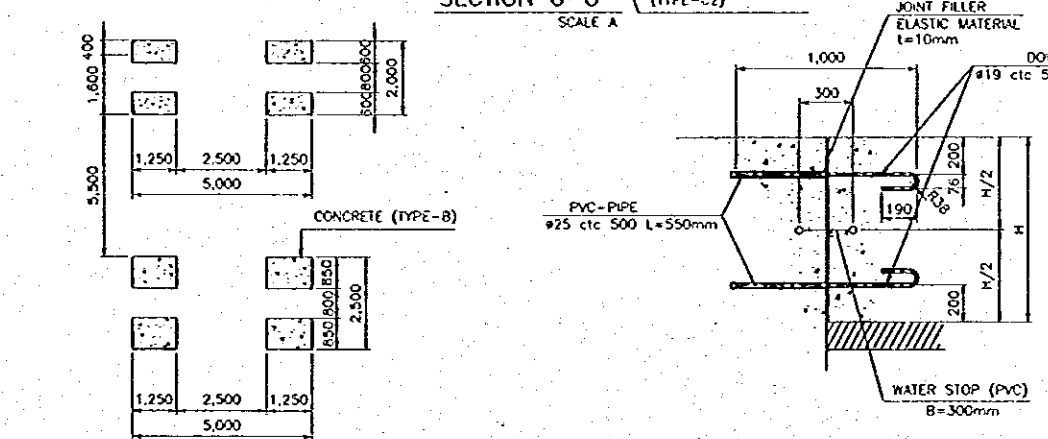
SECTION OF PC SHEET PILE
SCALE C



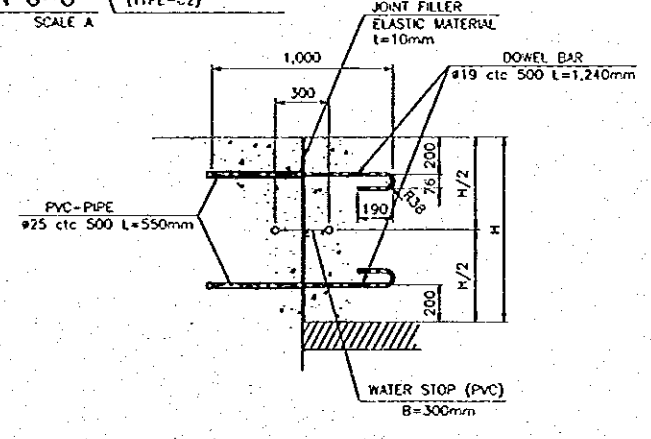
SECTION E-E
SCALE A



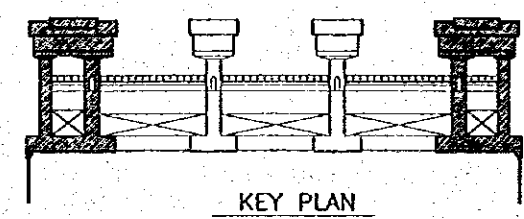
SECTION G-G
SCALE A



SECTION H-H
SCALE A



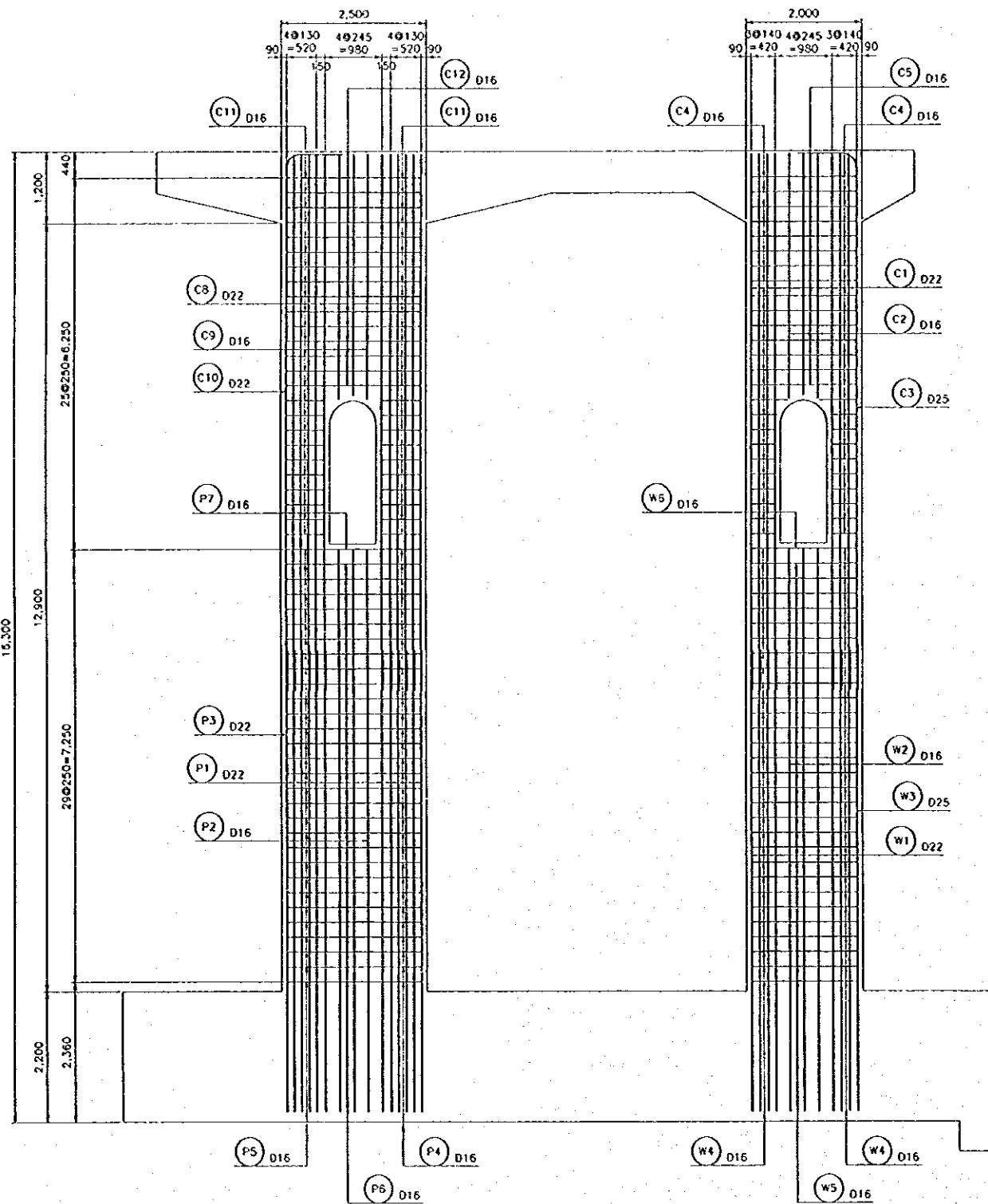
DETAIL OF JOINTING
SCALE B



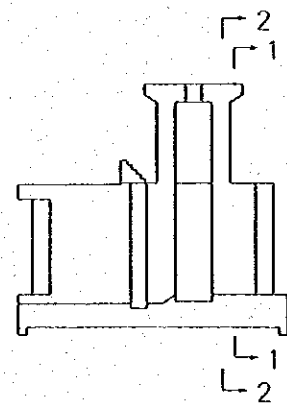
KEY PLAN

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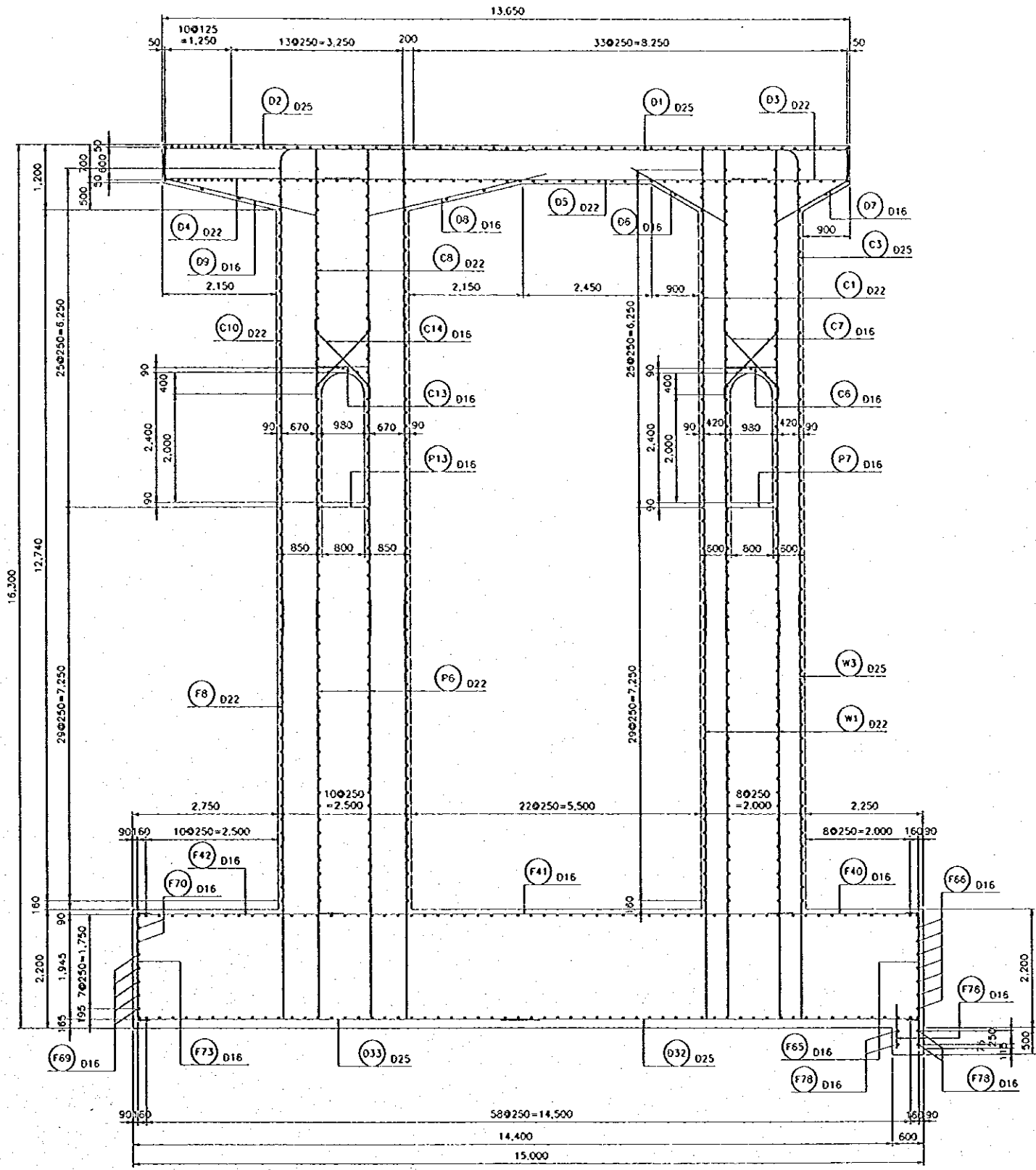
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| THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT | | PROVINCE CENTRAL JAVA |
| IRATUNSELUNA FLOOD CONTROL PROJECT COMPONENT: WEST FLOODWAY / GARANG RIVER IMPROVEMENT WEIR PIER, GATE FLOOR SLAB AND APRON END PIER (3/3) | | PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA DISTRICT SEMARANG CITY |
| TAPAN INTERNATIONAL COOPERATION AGENCY CIB ENGINEERING CO. LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL AND PASCO INTERNATIONAL INC. | | DRAWING NO. PG - F2 - ME - S1 - 13 SHEET NO. 13 |
| DESIGNED CHECKED CHIEF OF PLANNING AND DESIGN | APPROVED PROJECT MANAGER | DATE CONTRACT NO. |



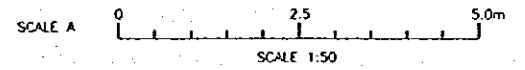
1 - 1



KEY PLAN

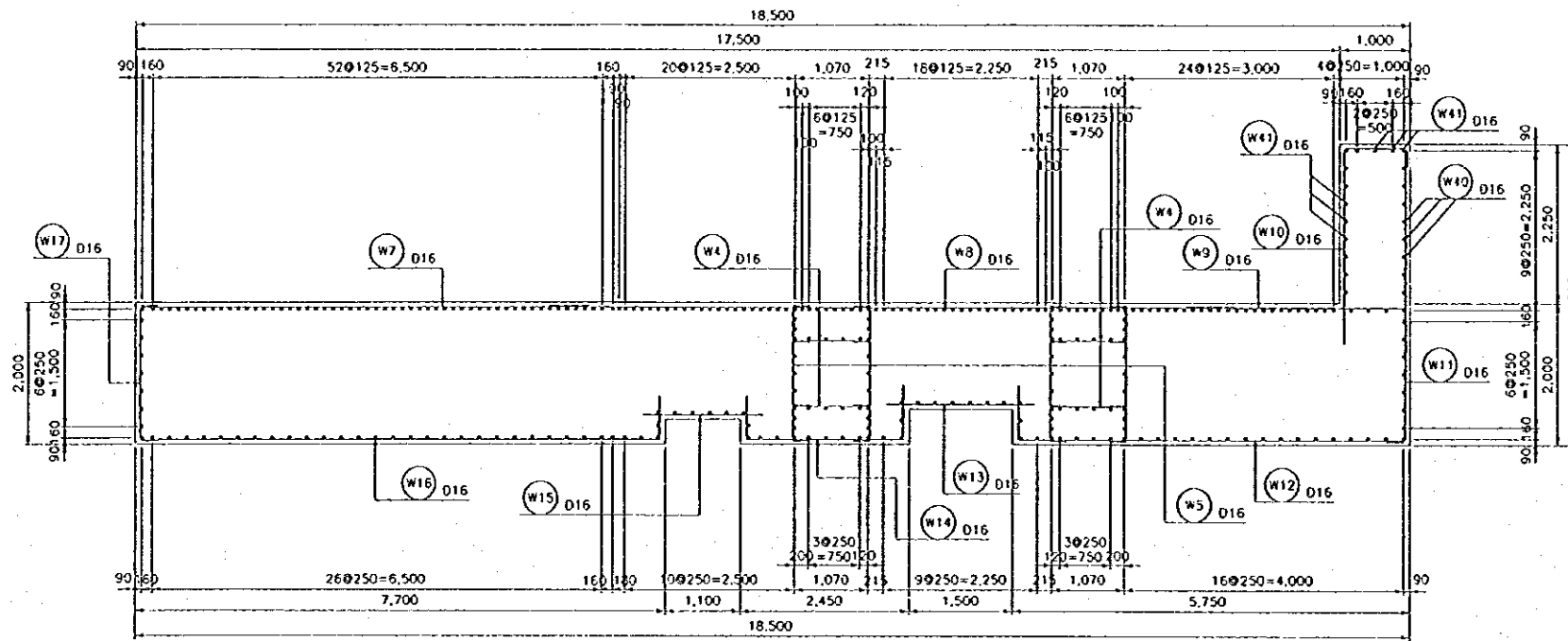


2 - 2

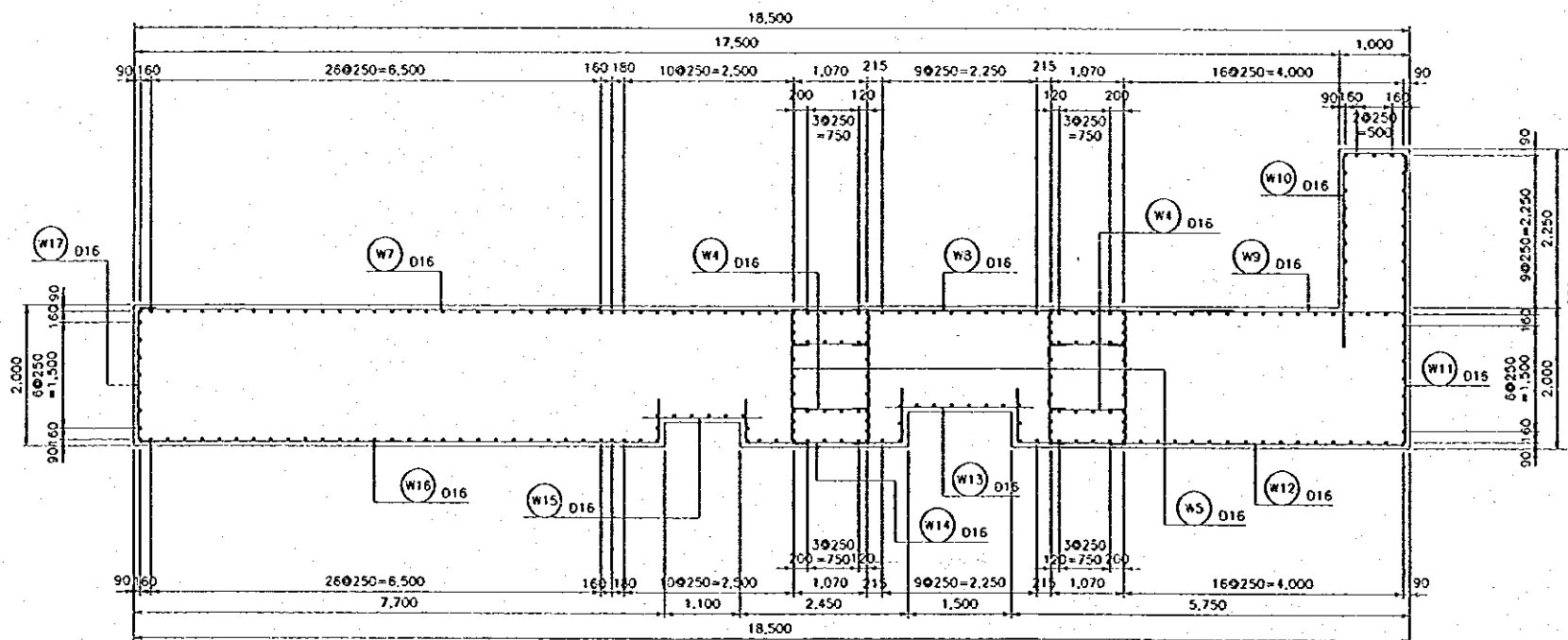


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| THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT | | PROVINCE CENTRAL JAVA |
| JAWA TIMUR REGIONAL COOPERATION AGENCY PT. BANGUNAN CO., LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL AND JAWA TIMUR REGIONAL AGENCY | | PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA |
| JAWA TIMUR REGIONAL COOPERATION AGENCY PT. BANGUNAN CO., LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL AND JAWA TIMUR REGIONAL AGENCY | | DISTRICT SEMARANG CITY |
| COMPONENT: WEST FLOODWAY / GARANG RIVER IMPROVEMENT WEIR PIER, GATE FLOOR SLAB AND APRON REINFORCING BAR ARRANGEMENT FOR END PIER (1/15) | | DRAWING NO. WB - P2 - WE - R4 - 14 SHEET NO. 23 |
| DESIGNED <i>[Signature]</i> | CHECKED <i>[Signature]</i> | DATE CONTRACT NO. |
| CRUISE OF PLANNING AND DESIGN PROJECT MANAGER | | |

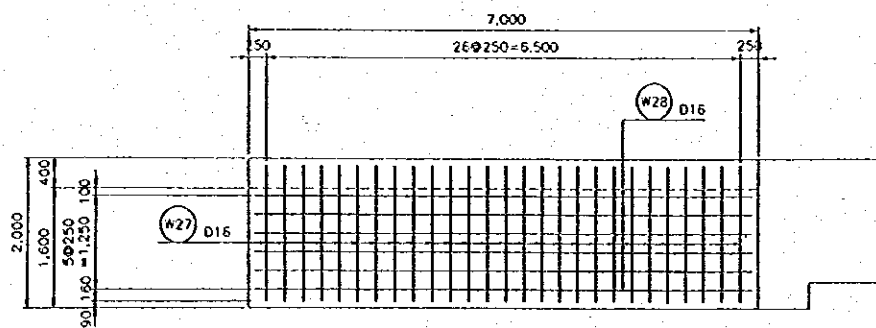
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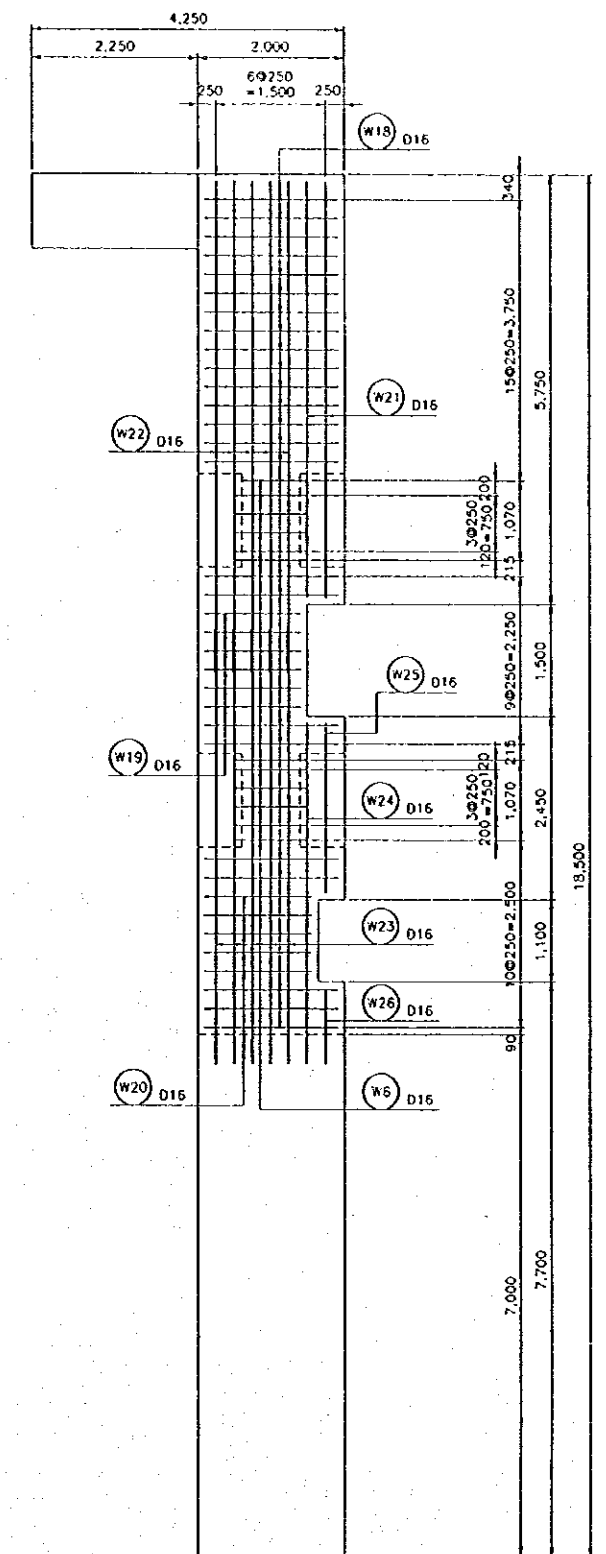
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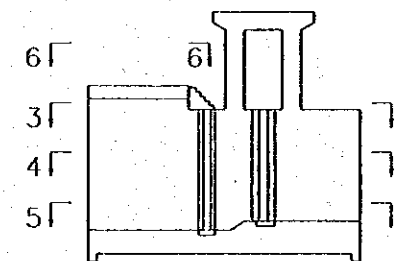
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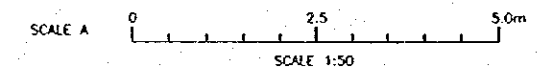
6 - 6



3 - 3

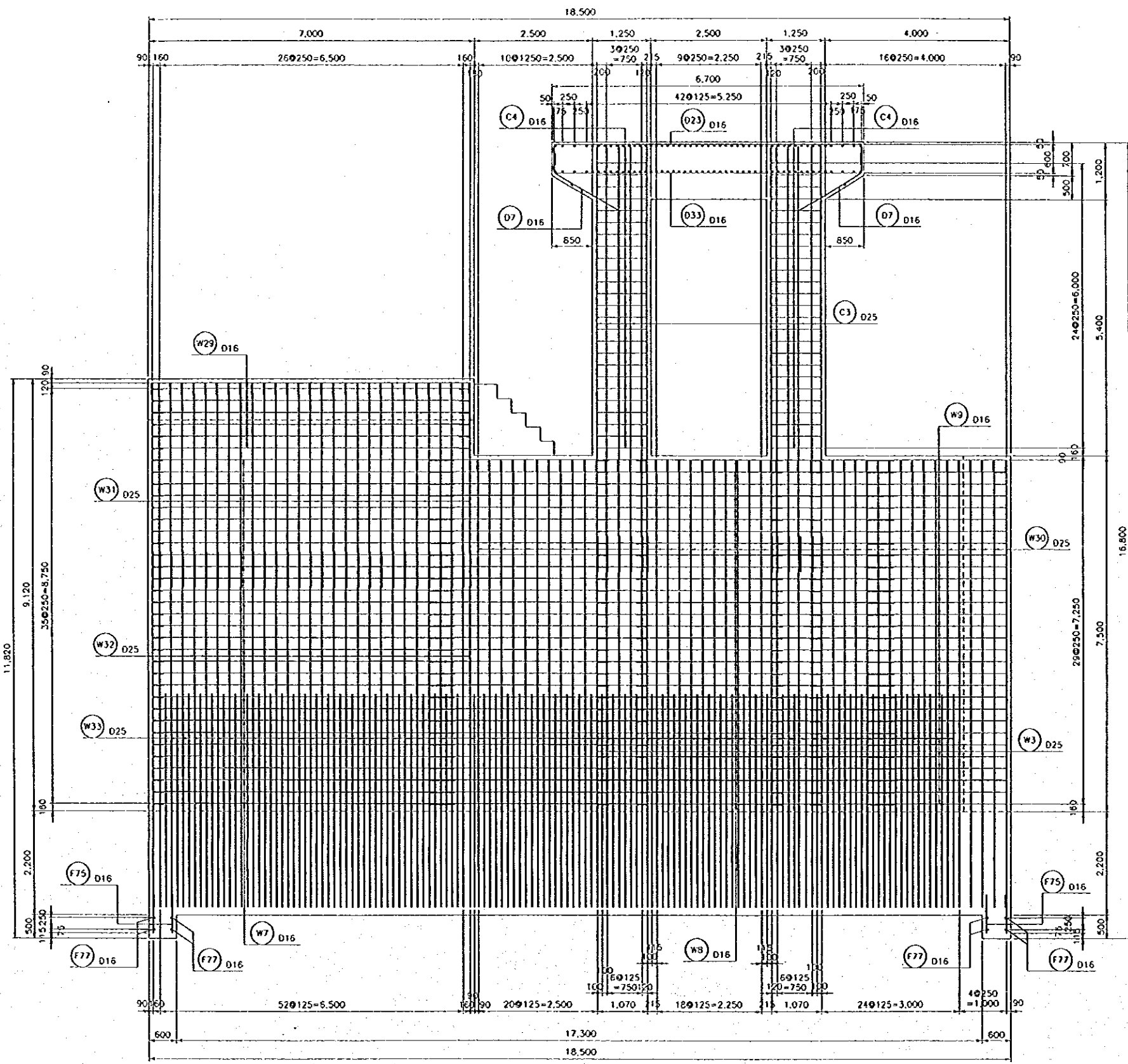


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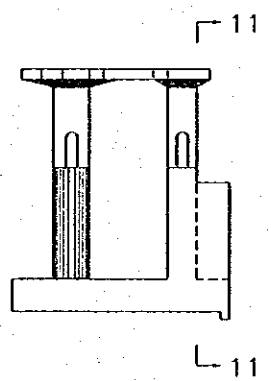


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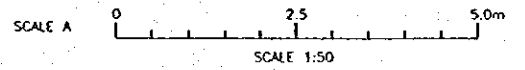
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| THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT | | PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA DISTRICT SEMARANG CITY DRAWING NO. W3-P2-WE-RE-15 SHEET NO. 38 DATE CONTRACT NO. |
| IRATUNSELUNA FLOOD CONTROL PROJECT COMPONENT : WEST FLOODWAY / GARANG RIVER IMPROVEMENT WEIR PIER, GATE FLOOR SLAB AND APRON REINFORCING BAR ARRANGEMENT FOR END PIER (2/15) | | JAPAN INTERNATIONAL COOPERATION AGENCY OTE ENGINEERING CO., LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL AND PACO INTERNATIONAL INC. |
| DESIGNED CHECKED CHIEF OF PLANNING AND DESIGN | APPROVED PROJECT MANAGER | APPROVED |



11 - 11

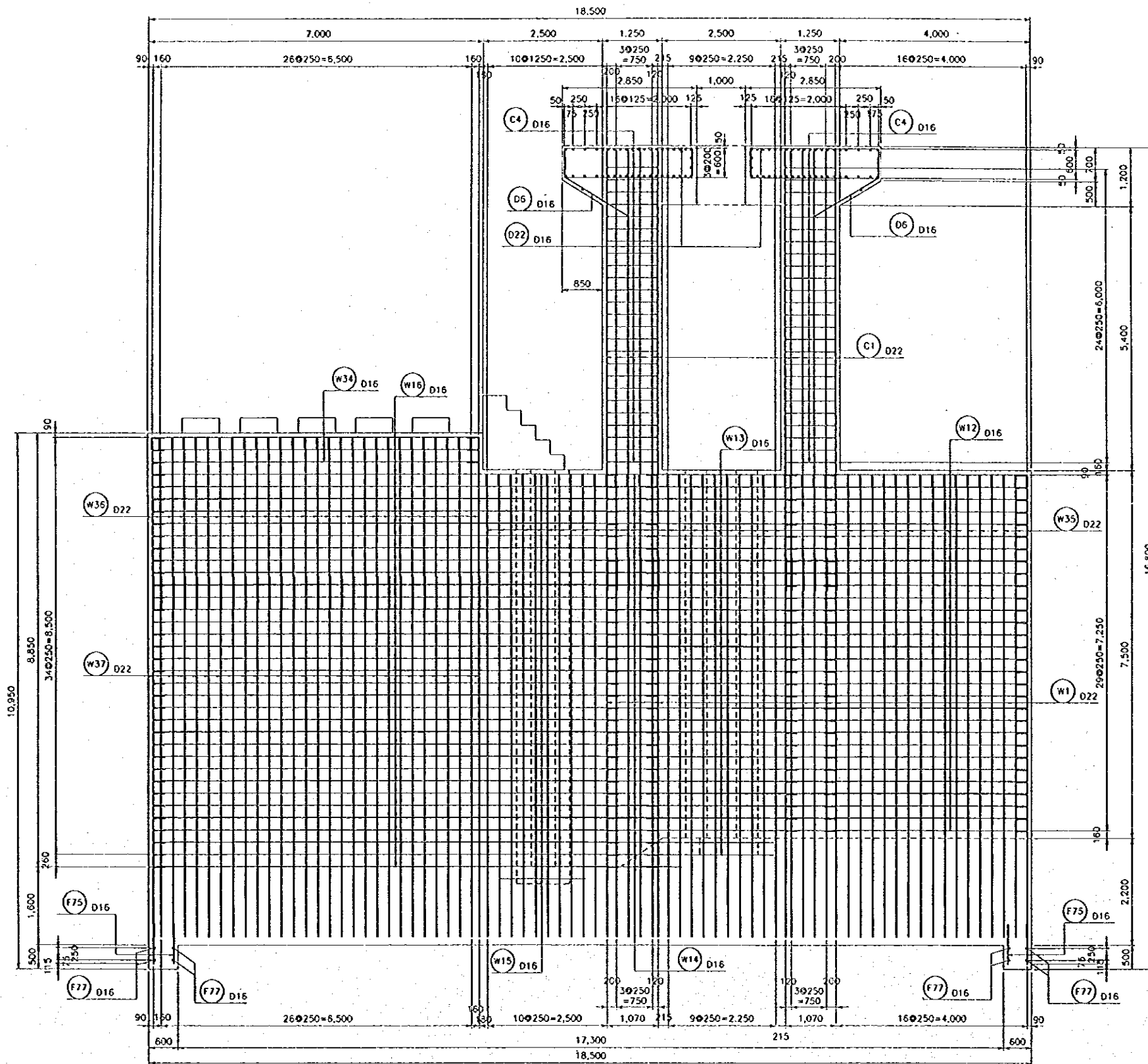


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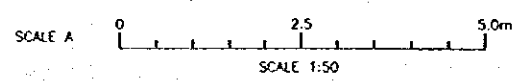
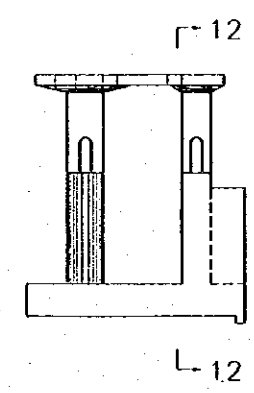


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| | THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT | PROVINCE CENTRAL JAVA |
| | IRATUNSELUNA FLOOD CONTROL PROJECT COMPONENT: WEST FLOODWAY/GARANG RIVER IMPROVEMENT WEIR PIER, GATE FLOOR SLAB AND APRON REINFORCING BAR ARRANGEMENT FOR END PIER 4/151 | PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA |
| | PACIFIC CONSULTANTS INTERNATIONAL, INC. PACIFIC CONSULTANTS INTERNATIONAL, INC. | DISTRICT SEMARANG CITY |
| | DESIGNED: [Signature] CHECKED: [Signature] | DRAWING NO. WS-P2-WE-P4-17 SHEET NO. 31 DATE: [] CONTRACT NO. |
| APPROVED: [Signature] CHIEF OF PLANNING AND DESIGN PROJECT MANAGER | | |



12 - 12



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| | THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF JAMAN SETTLEMENT | PROVINCE CENTRAL JAVA |
| | IRATUNSELUNA FLOOD CONTROL PROJECT COMPONENT: WEST FLOODWAY / GARANO RIVER IMPROVEMENT WEIR PIER, GATE FLOOR SLAB AND APRON | PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN BOJALANG, IN THE REPUBLIC OF INDONESIA |
| | REINFORCING BAR ARRANGEMENT FOR END PIER (5/15) | DISTRICT SEMARANG CITY |
| | JAPAN INTERNATIONAL COOPERATION AGENCY CIL ENGINEERING CO., LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL PASCO INTERNATIONAL INC. | DRAWING NO. W2 - P2 - WE - RE - 11 SHEET NO. 33 |
| DESIGNED CHECKED | DATE CONTRACT NO. | APPROVED CHIEF OF PLANNING AND DESIGN PROJECT MANAGER |