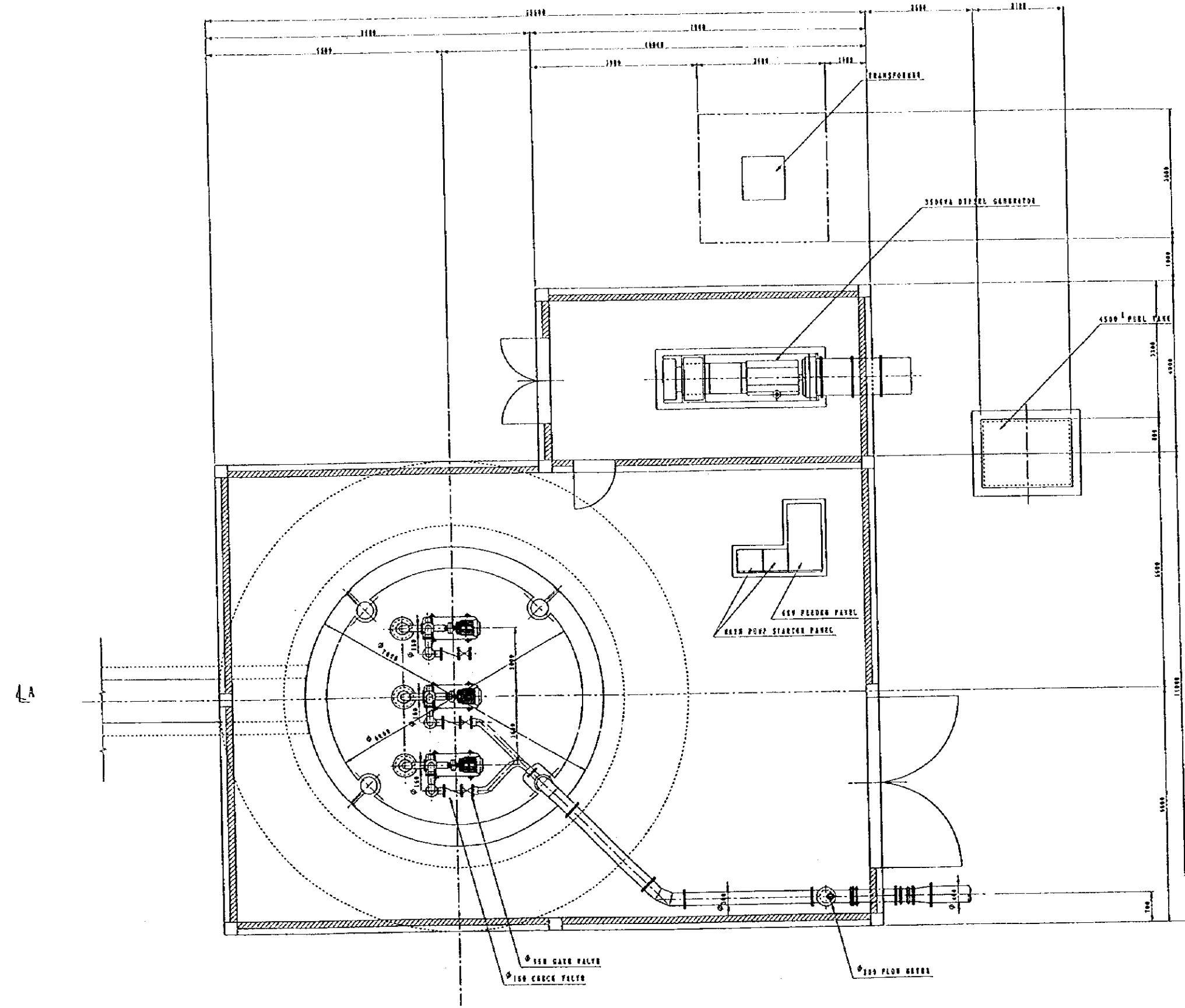


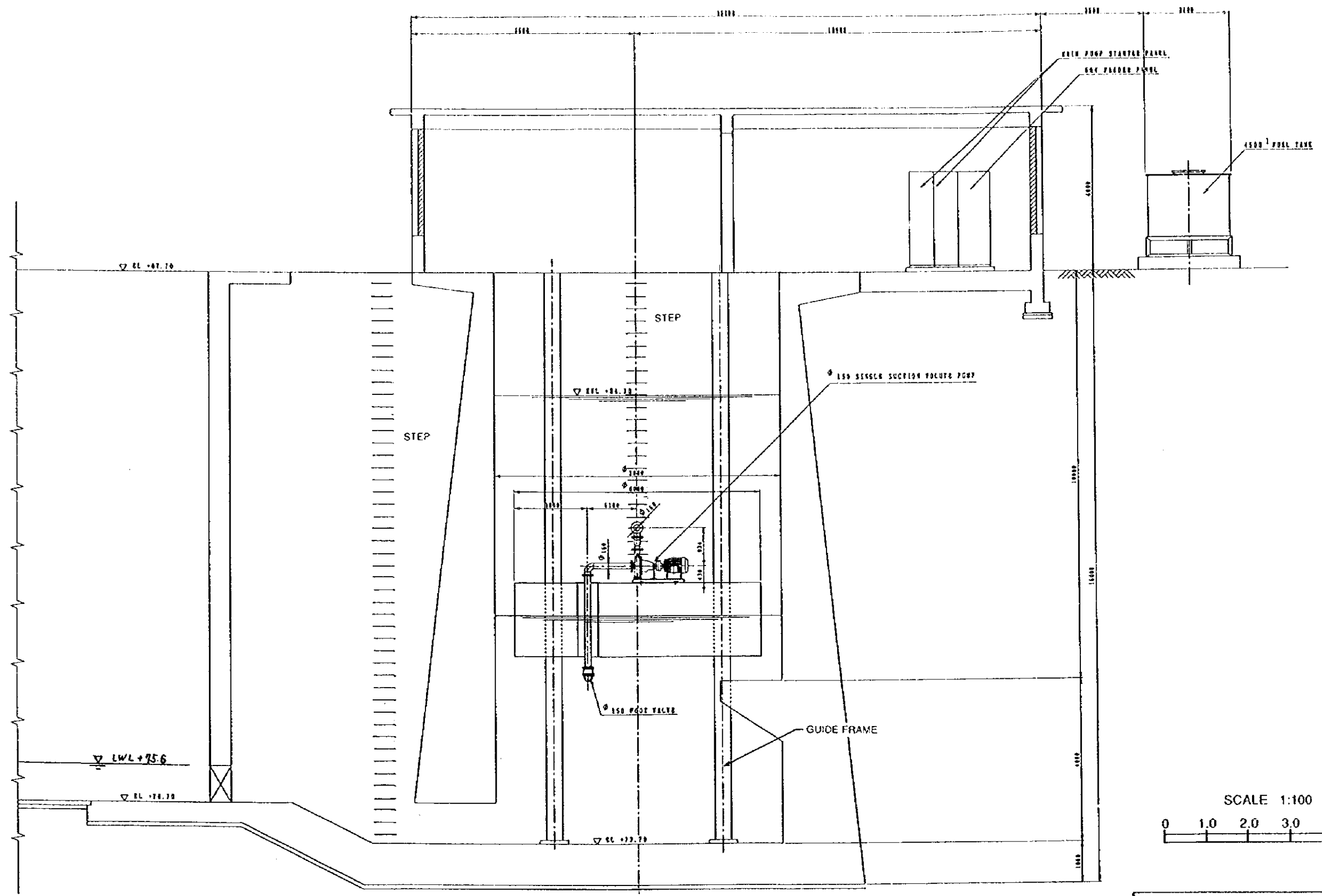
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|-------------------------------------------------------------------------------------------|----------|-------------|-------|
| THE REPUBLIC OF GHANA                                                                     |          |             |       |
| THE PROJECT FOR<br>REHABILITATION OF IRRIGATION                                           |          |             |       |
| TITLE OF DRAWING<br>Kpando-Torkor Project<br>General Layout for Pump Station and Headrace |          |             |       |
| DATE                                                                                      | MAR 1998 | DRAWING NO. | KP-03 |
| NIPPON KOEI CO., LTD. / TAIYO CONSULTANTS CO., LTD.                                       |          |             |       |



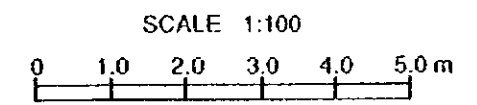
P L A N

SCALE 1:100  
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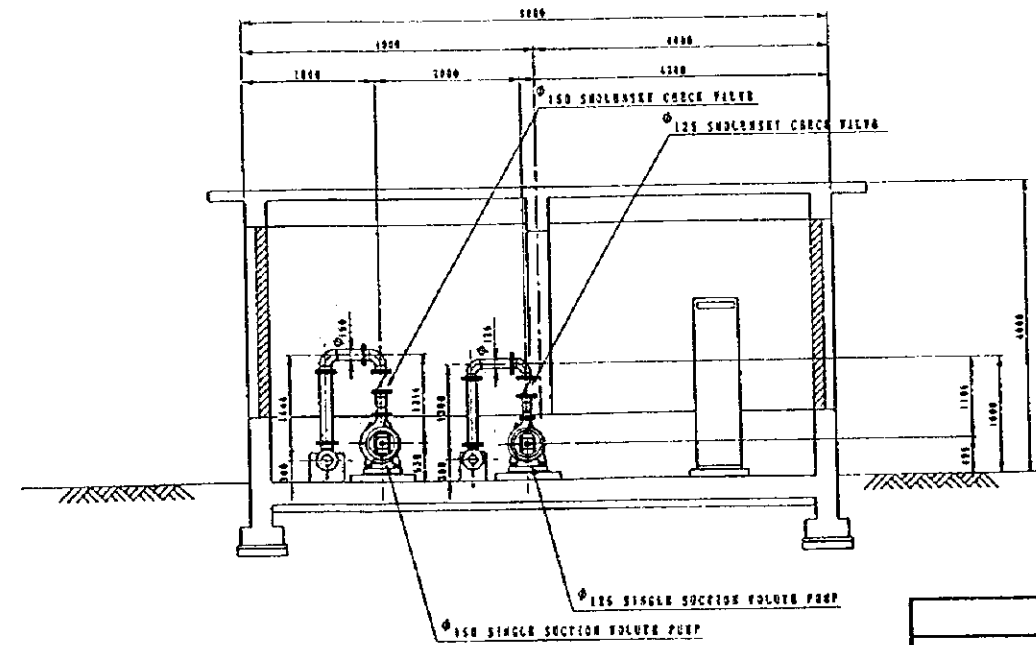
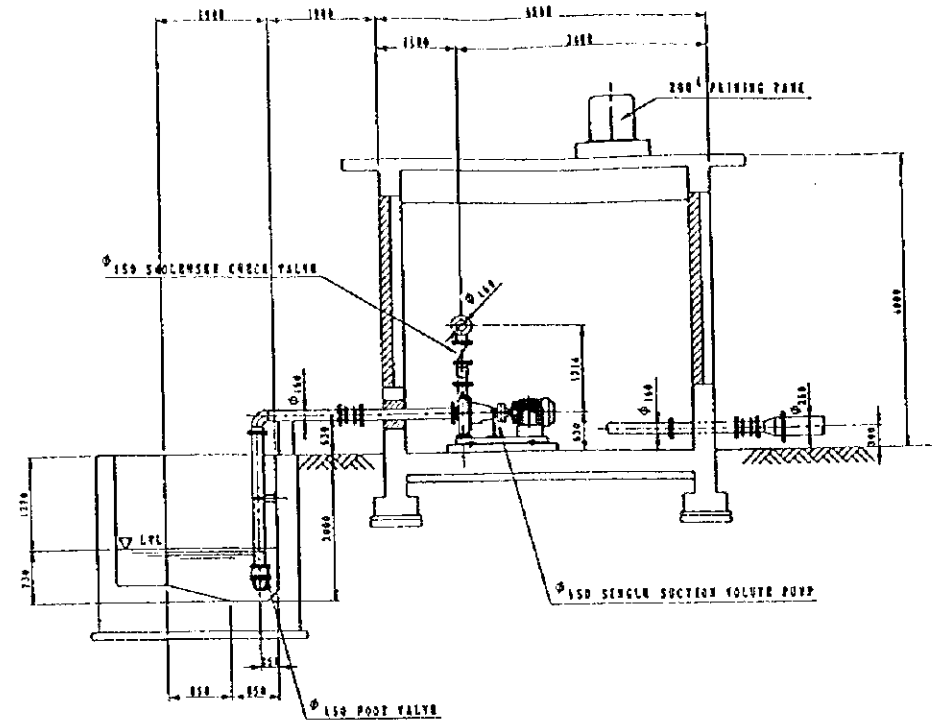
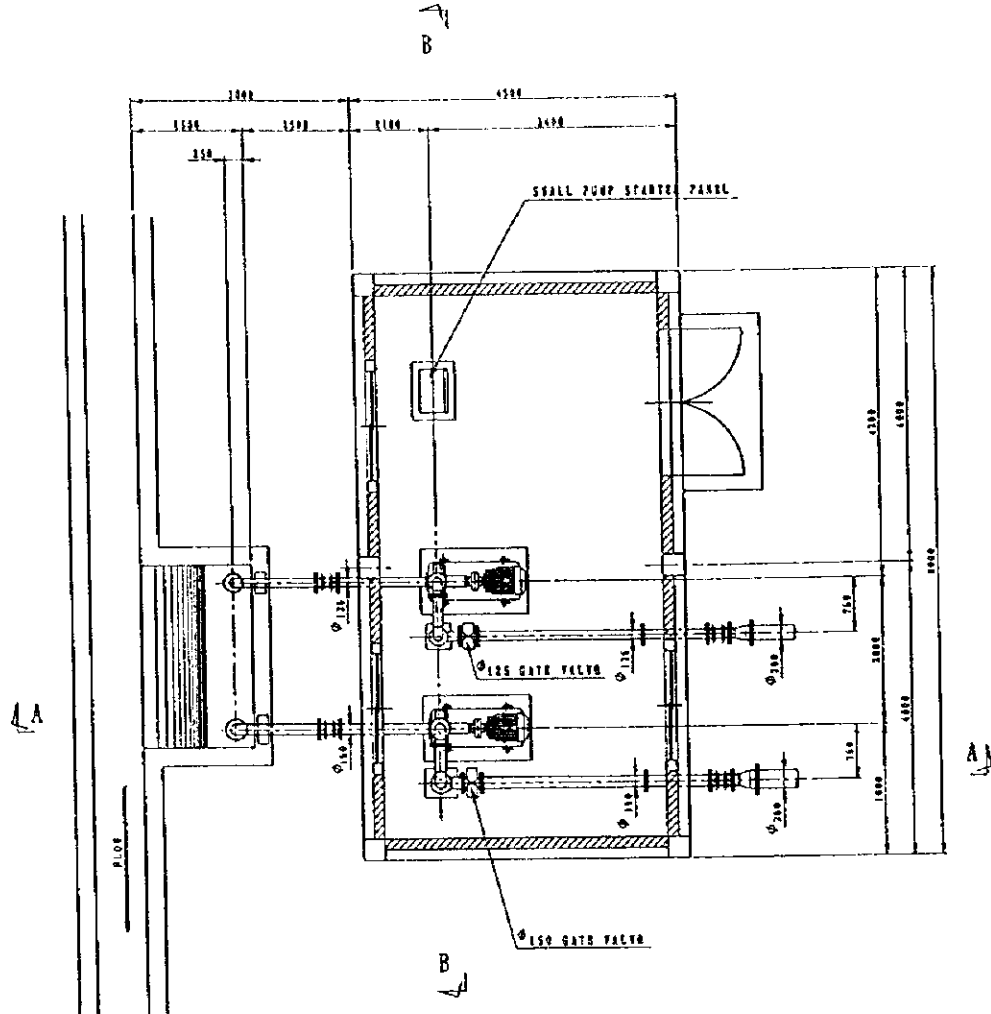
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|-----------------------------------------------------------------|----------|-------------|-------|
| THE REPUBLIC OF GHANA                                           |          |             |       |
| THE PROJECT FOR<br>REHABILITATION OF IRRIGATION                 |          |             |       |
| TITLE OF DRAWING<br>Kpando-Torkor Project<br>Pump Station (1/2) |          |             |       |
| DATE                                                            | MAR 1998 | DRAWING NO. | KP-04 |
| NIPPON KOEI CO., LTD. / TAIYO CONSULTANTS CO., LTD.             |          |             |       |



SECTION A - A

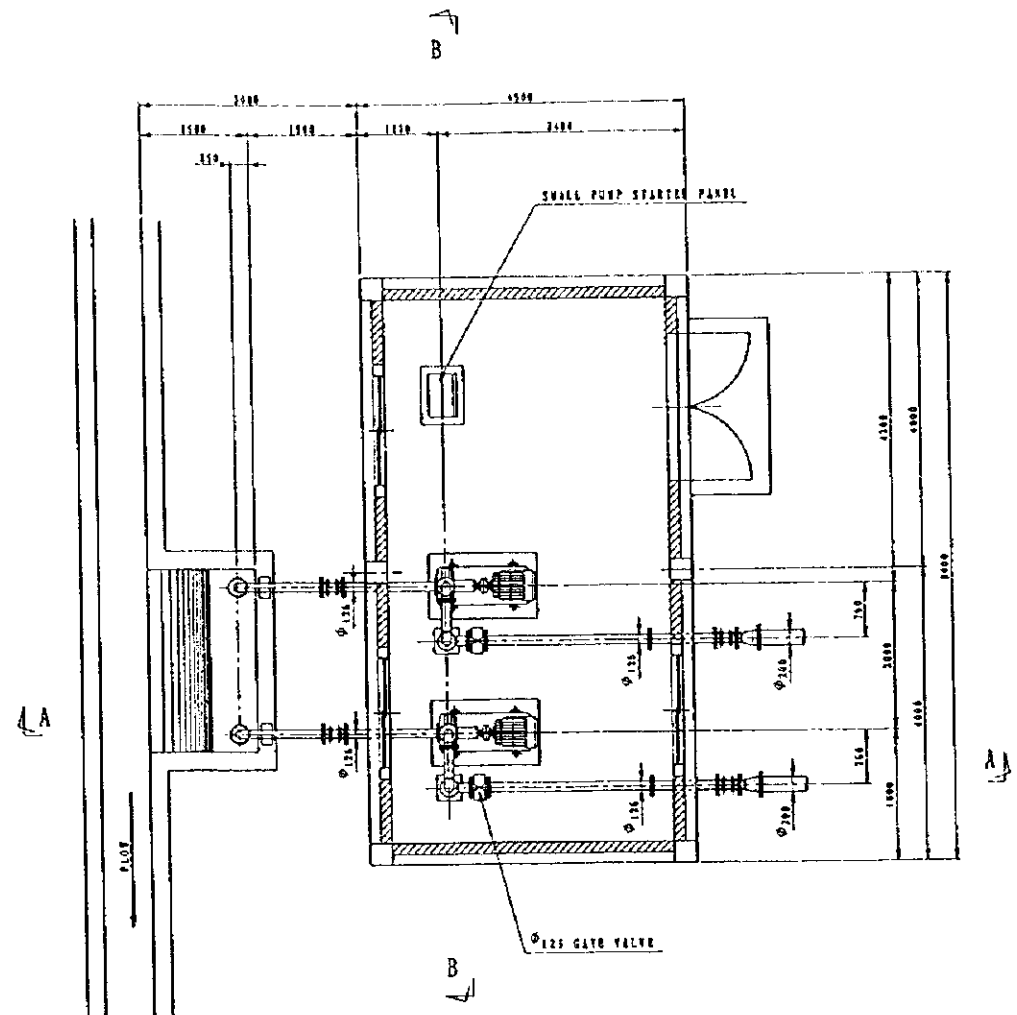


|                                                                 |          |             |       |
|-----------------------------------------------------------------|----------|-------------|-------|
| THE REPUBLIC OF GHANA                                           |          |             |       |
| THE PROJECT FOR<br>REHABILITATION OF IRRIGATION                 |          |             |       |
| TITLE OF DRAWING<br>Kpando-Torkor Project<br>Pump Station (2/2) |          |             |       |
| DATE                                                            | MAR 1998 | DRAWING NO. | KP-05 |
| NIPPON KOEI CO., LTD. / TAIYO CONSULTANTS CO., LTD.             |          |             |       |

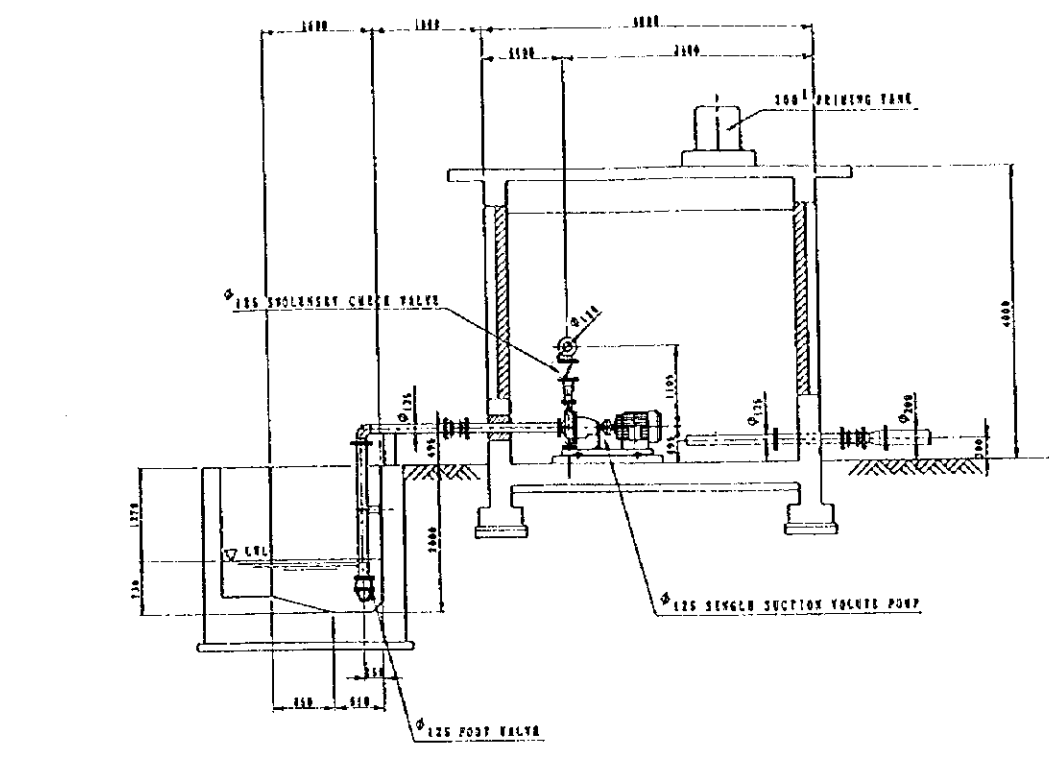


|                                                                   |          |             |       |
|-------------------------------------------------------------------|----------|-------------|-------|
| THE REPUBLIC OF GHANA                                             |          |             |       |
| THE PROJECT FOR<br>REHABILITATION OF IRRIGATION                   |          |             |       |
| TITLE OF DRAWING<br>Kpando-Torkor Project<br>Small Pump Station A |          |             |       |
| DATE                                                              | MAR 1998 | DRAWING NO. | KP-06 |
| NIPPON KOEI CO., LTD. / TAIYO CONSULTANTS CO., LTD.               |          |             |       |

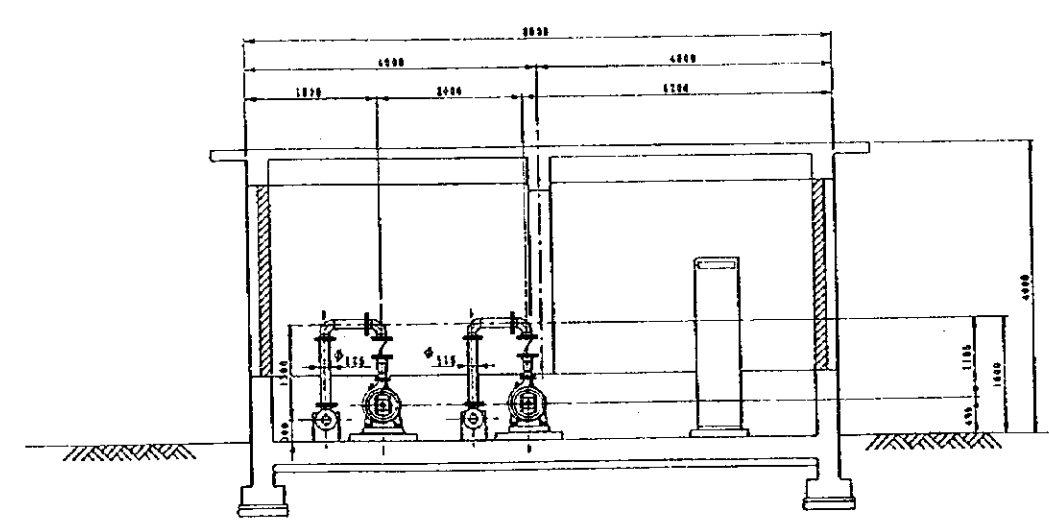




PLAN 5-1/58

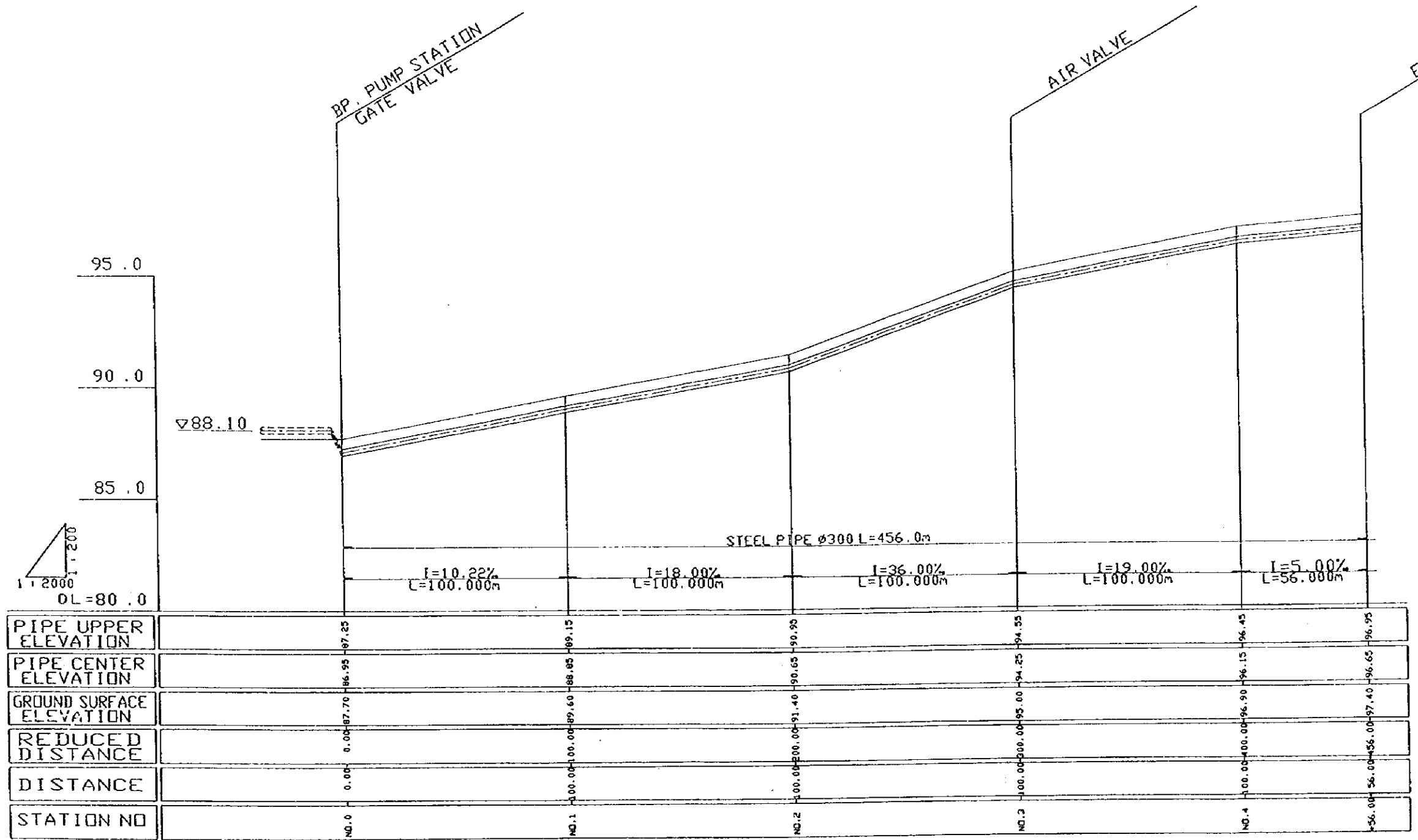


SECTION A - A 5-1/58

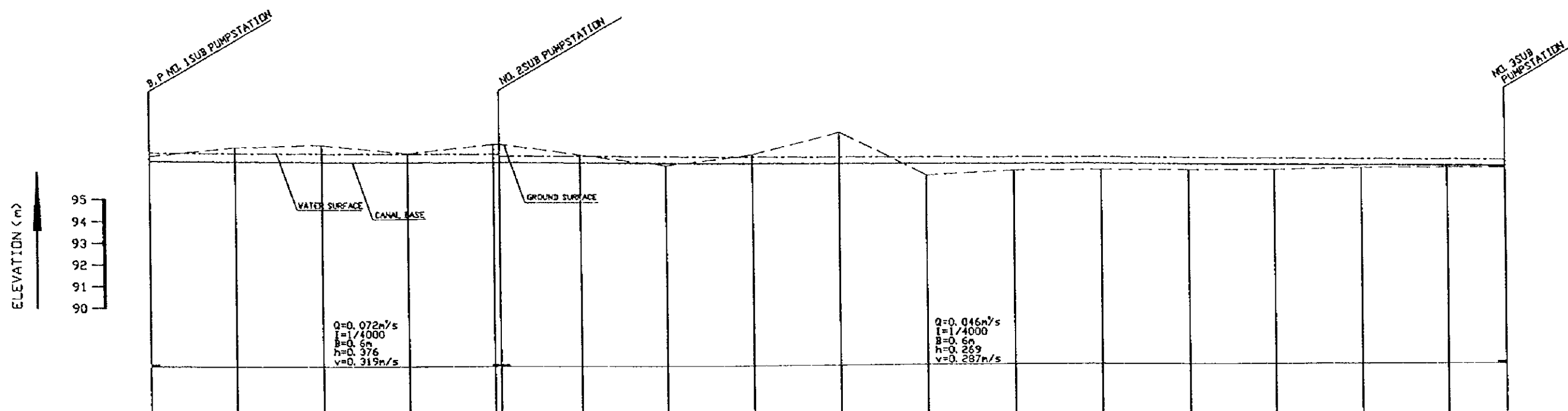


SECTION B - B 5-1/58

|                                                                   |          |             |       |
|-------------------------------------------------------------------|----------|-------------|-------|
| THE REPUBLIC OF GHANA                                             |          |             |       |
| THE PROJECT FOR<br>REHABILITATION OF IRRIGATION                   |          |             |       |
| TITLE OF DRAWING<br>Kpando-Torkor Project<br>Small Pump Station C |          |             |       |
| DATE                                                              | MAR 1998 | DRAWING NO. | KP-08 |
| NIPPON KOEI CO., LTD. / TAIYO CONSULTANTS CO., LTD.               |          |             |       |



|                                                                       |          |             |       |
|-----------------------------------------------------------------------|----------|-------------|-------|
| THE REPUBLIC OF GHANA                                                 |          |             |       |
| THE PROJECT FOR REHABILITATION OF IRRIGATION                          |          |             |       |
| TITLE OF DRAWING<br>Kpando-Torkor Project<br>Profile of Main Pipeline |          |             |       |
| DATE                                                                  | MAR 1998 | DRAWING NO. | KP-09 |
| NIPPON KOEI CO., LTD. / TAIYO CONSULTANTS CO., LTD.                   |          |             |       |



|                     |                          |       |        |        |        |        |        |        |        |        |        |        |         |         |         |         |         |         |         |       |  |  |
|---------------------|--------------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|-------|--|--|
| PROPOSED            | WATER SURFACE ELEVATION  | 97.15 | 97.12  | 97.10  | 97.07  | 97.05  | 97.05  | 96.94  | 96.91  | 96.89  | 96.86  | 96.84  | 96.81   | 96.79   | 96.76   | 96.74   | 96.71   | 96.69   | 96.66   | 96.65 |  |  |
|                     | CANAL BASE ELEVATION     | 96.77 | 96.74  | 96.72  | 96.69  | 96.67  | 96.67  | 96.64  | 96.62  | 96.59  | 96.57  | 96.54  | 96.52   | 96.49   | 96.47   | 96.44   | 96.42   | 96.39   | 96.38   |       |  |  |
| EXISTING CONDITIONS | CANAL BANK ELE. (LEFT)   |       |        |        |        |        |        |        |        |        |        |        |         |         |         |         |         |         |         |       |  |  |
|                     | CANAL BANK ELE. (RIGHT)  |       |        |        |        |        |        |        |        |        |        |        |         |         |         |         |         |         |         |       |  |  |
|                     | GROUND SURFACE ELEVATION | 97.00 | 97.40  | 97.50  | 97.10  | 97.50  | 97.50  | 97.00  | 96.50  | 97.00  | 98.00  | 96.00  | 96.20   | 96.20   | 96.20   | 96.20   | 96.30   | 96.30   | 96.30   |       |  |  |
|                     | REDUCED DISTANCE         | 0.00  | 100.00 | 200.00 | 300.00 | 400.00 | 407.00 | 500.00 | 600.00 | 700.00 | 800.00 | 900.00 | 1000.00 | 1100.00 | 1200.00 | 1300.00 | 1400.00 | 1500.00 | 1567.00 |       |  |  |
|                     | DISTANCE                 | 0.00  | 100.00 | 200.00 | 300.00 | 400.00 | 407.00 | 500.00 | 600.00 | 700.00 | 800.00 | 900.00 | 1000.00 | 1100.00 | 1200.00 | 1300.00 | 1400.00 | 1500.00 | 1567.00 |       |  |  |
|                     | STATION NO.              | NO. 0 | NO. 1  | NO. 2  | NO. 3  | NO. 4  | +7.00  | NO. 5  | NO. 6  | NO. 7  | NO. 8  | NO. 9  | NO. 10  | NO. 11  | NO. 12  | NO. 13  | NO. 14  | NO. 15  | +67.00  |       |  |  |

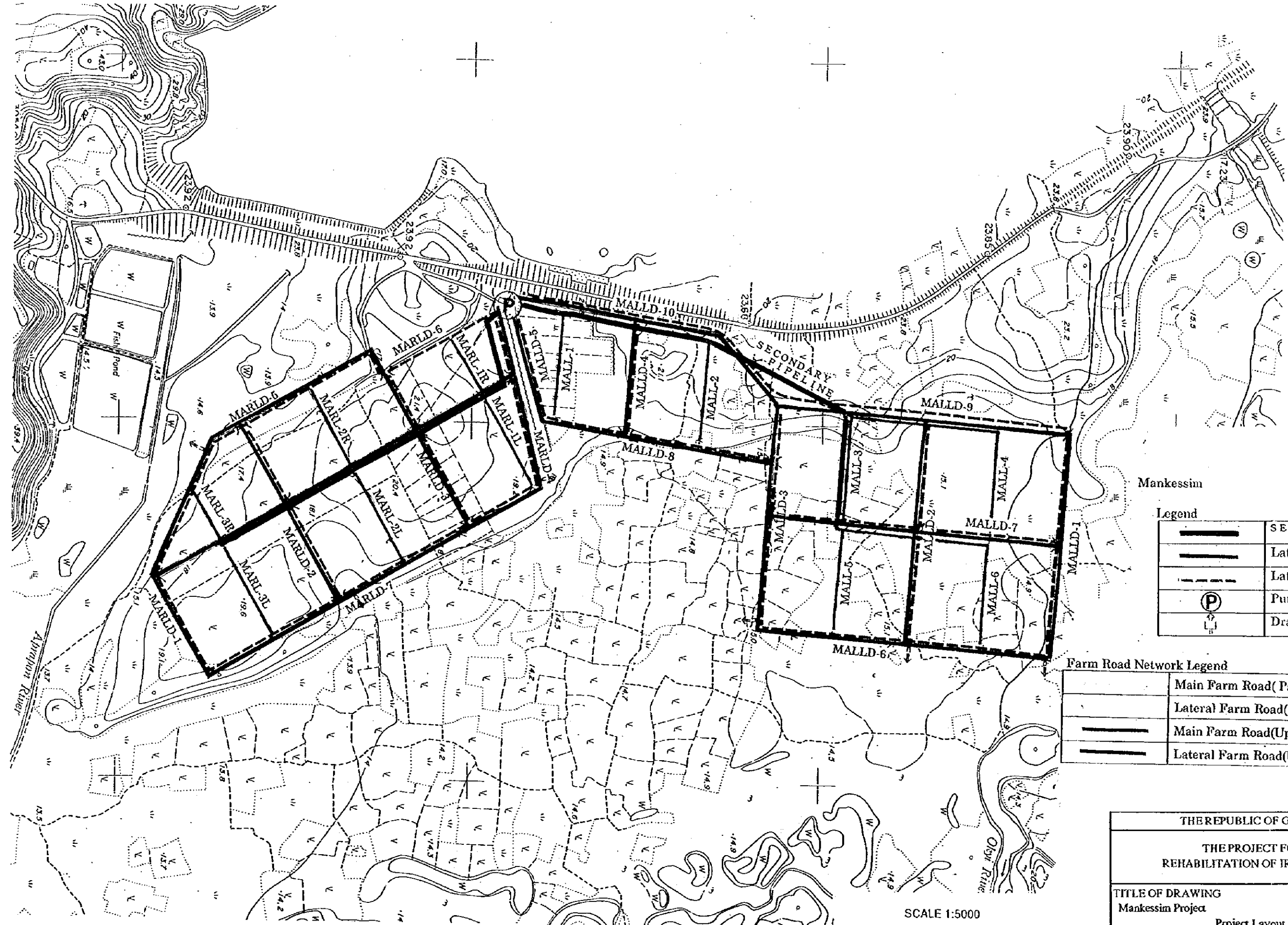
THE REPUBLIC OF GHANA

THE PROJECT FOR  
REHABILITATION OF IRRIGATION

TITLE OF DRAWING  
Kpando-Torkor Project  
Profile of Main Canal

|                                                     |          |             |       |
|-----------------------------------------------------|----------|-------------|-------|
| DATE                                                | MAR 1998 | DRAWING NO. | KP-10 |
| NIPPON KOEI CO., LTD. / TAIYO CONSULTANTS CO., LTD. |          |             |       |





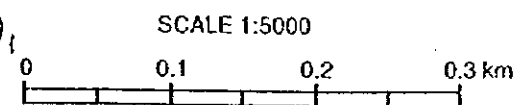
Mankessim

Legend

|  |                    |
|--|--------------------|
|  | SECONDARY PIPELINE |
|  | Lateral Pipeline   |
|  | Lateral Drain      |
|  | Pump Station       |
|  | Drainage Outlet    |

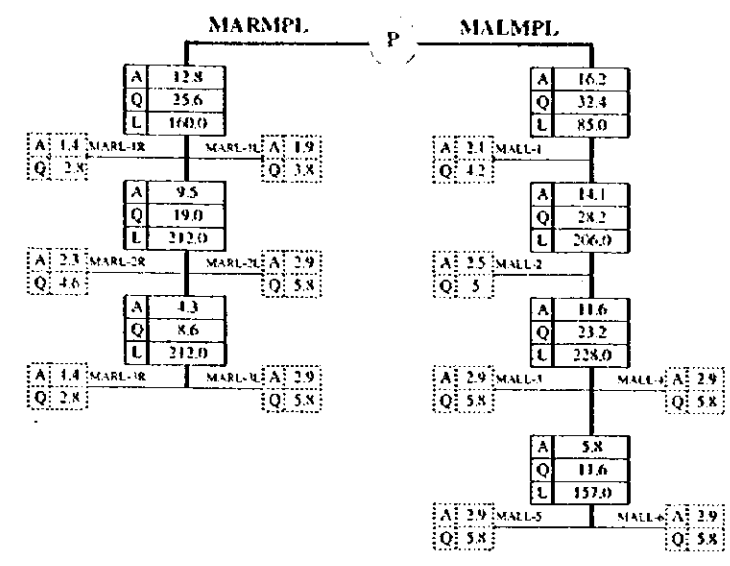
Farm Road Network Legend


|  |                                 |
|--|---------------------------------|
|  | Main Farm Road(Paddy Field)     |
|  | Lateral Farm Road(Paddy Field)  |
|  | Main Farm Road(Upland Field)    |
|  | Lateral Farm Road(Upland Field) |



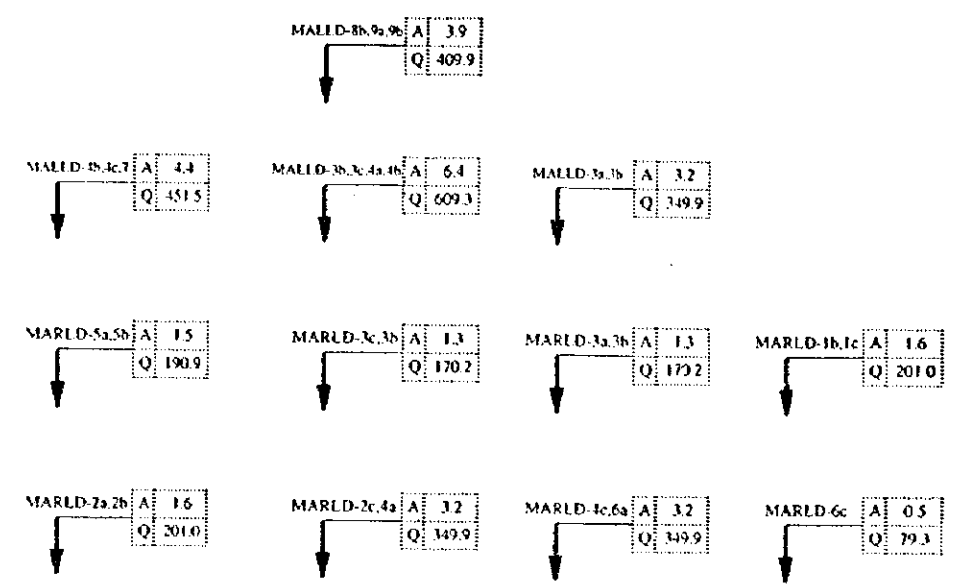
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|-------------------------------------------------------------|----------|-------------|-------|
| THE REPUBLIC OF GHANA                                       |          |             |       |
| THE PROJECT FOR REHABILITATION OF IRRIGATION                |          |             |       |
| TITLE OF DRAWING<br>Mankessim Project<br>Project Layout Map |          |             |       |
| DATE                                                        | MAR 1998 | DRAWING NO. | MA-01 |
| NIPPON KOEI CO., LTD. / TAIYO CONSULTANTS CO., LTD.         |          |             |       |


Irrigation Diagram



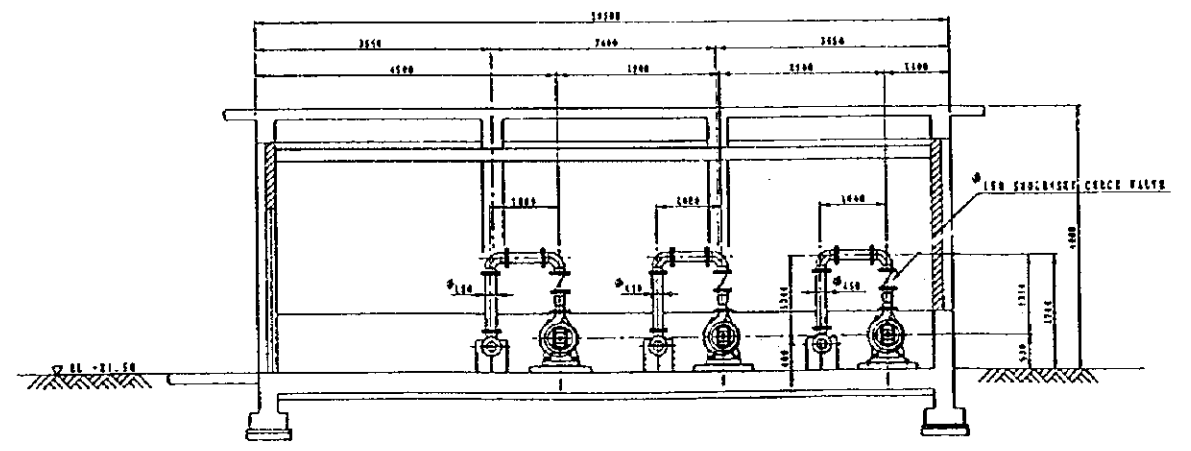
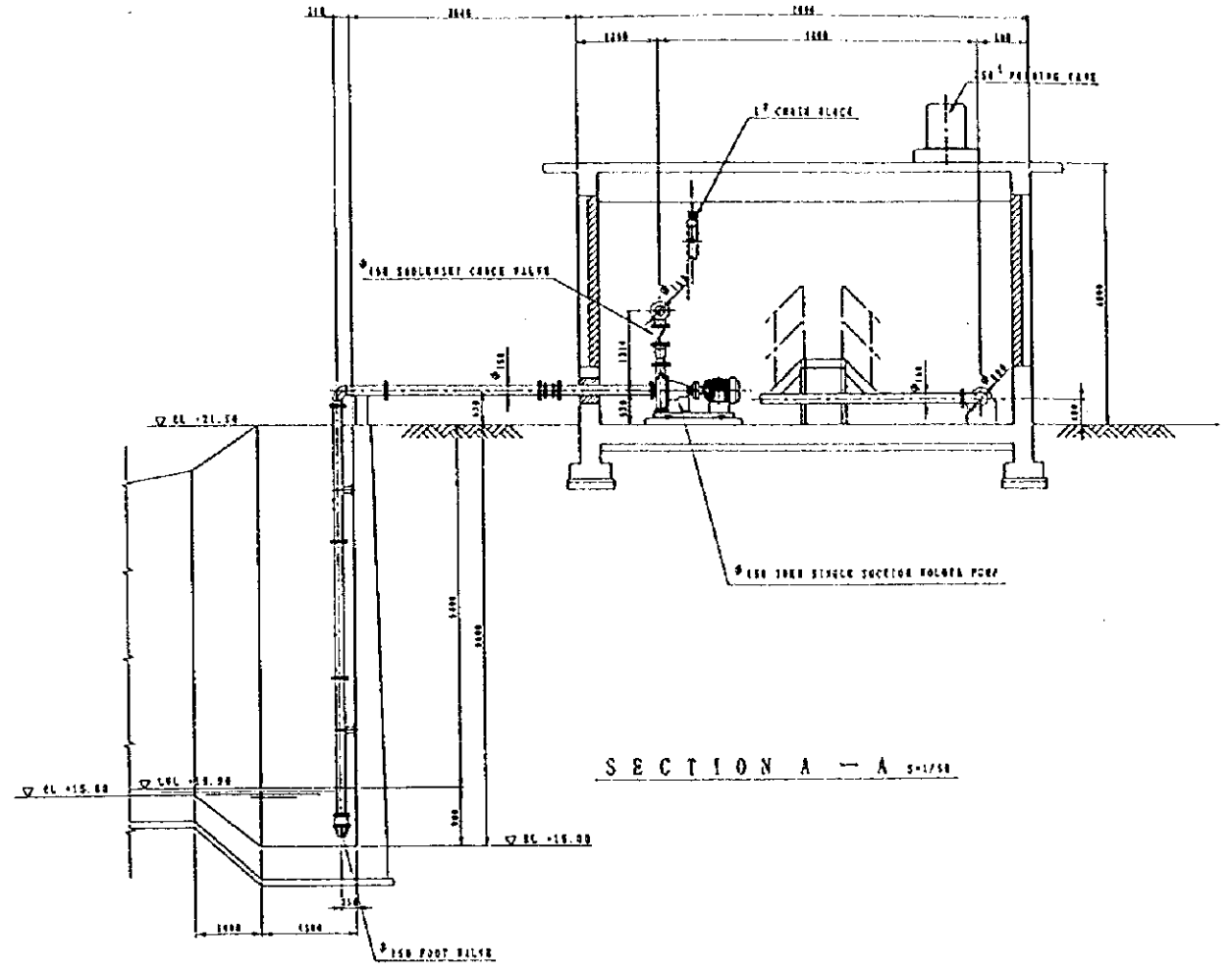
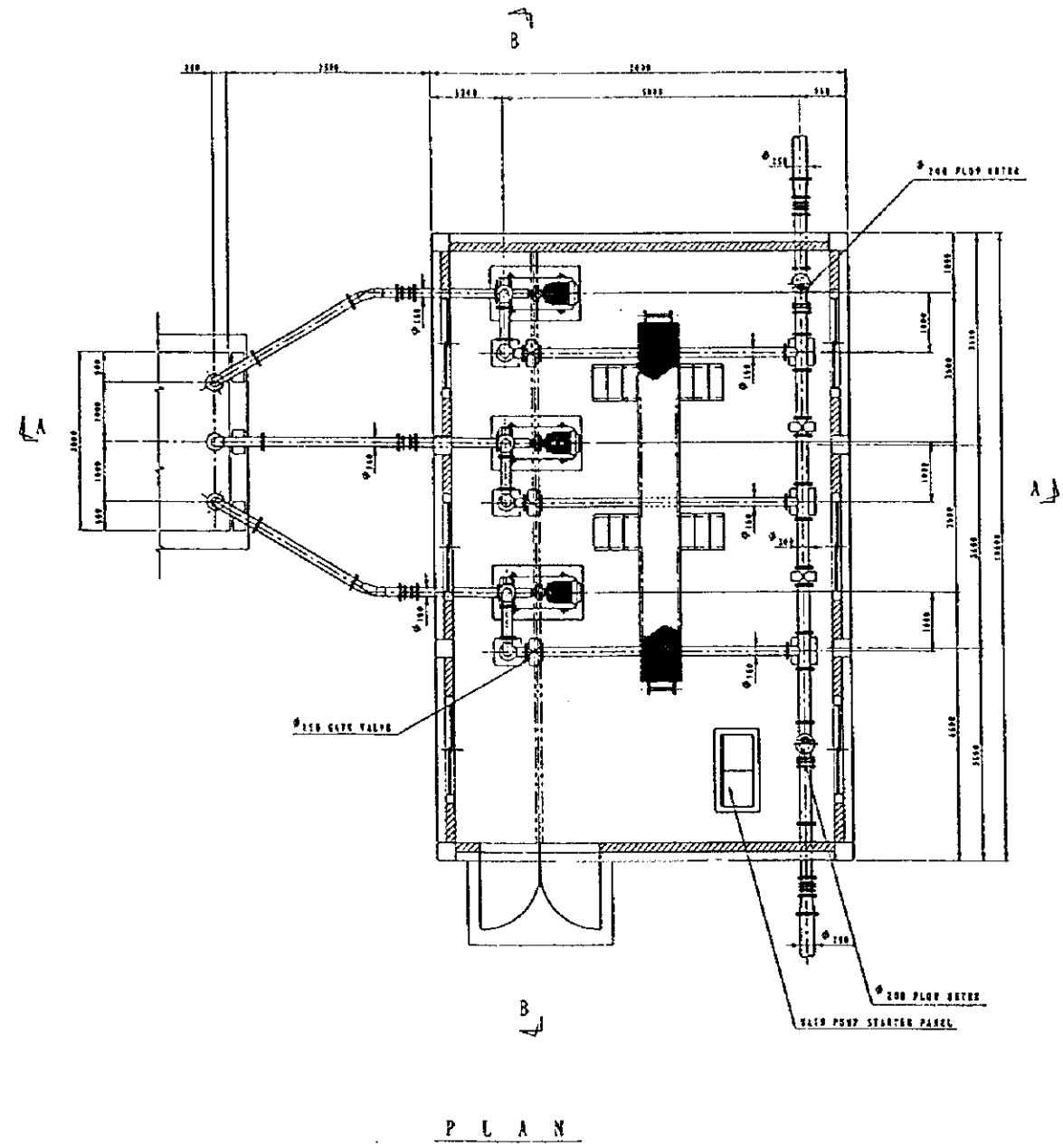
 : Upland Field Block  
 (Unit Design Discharge : 2.00 lit/sec/ha)  
 A: Area (ha)  
 Q: Discharge (lit/sec)  
 L: Length (m)

Drainage Diagram

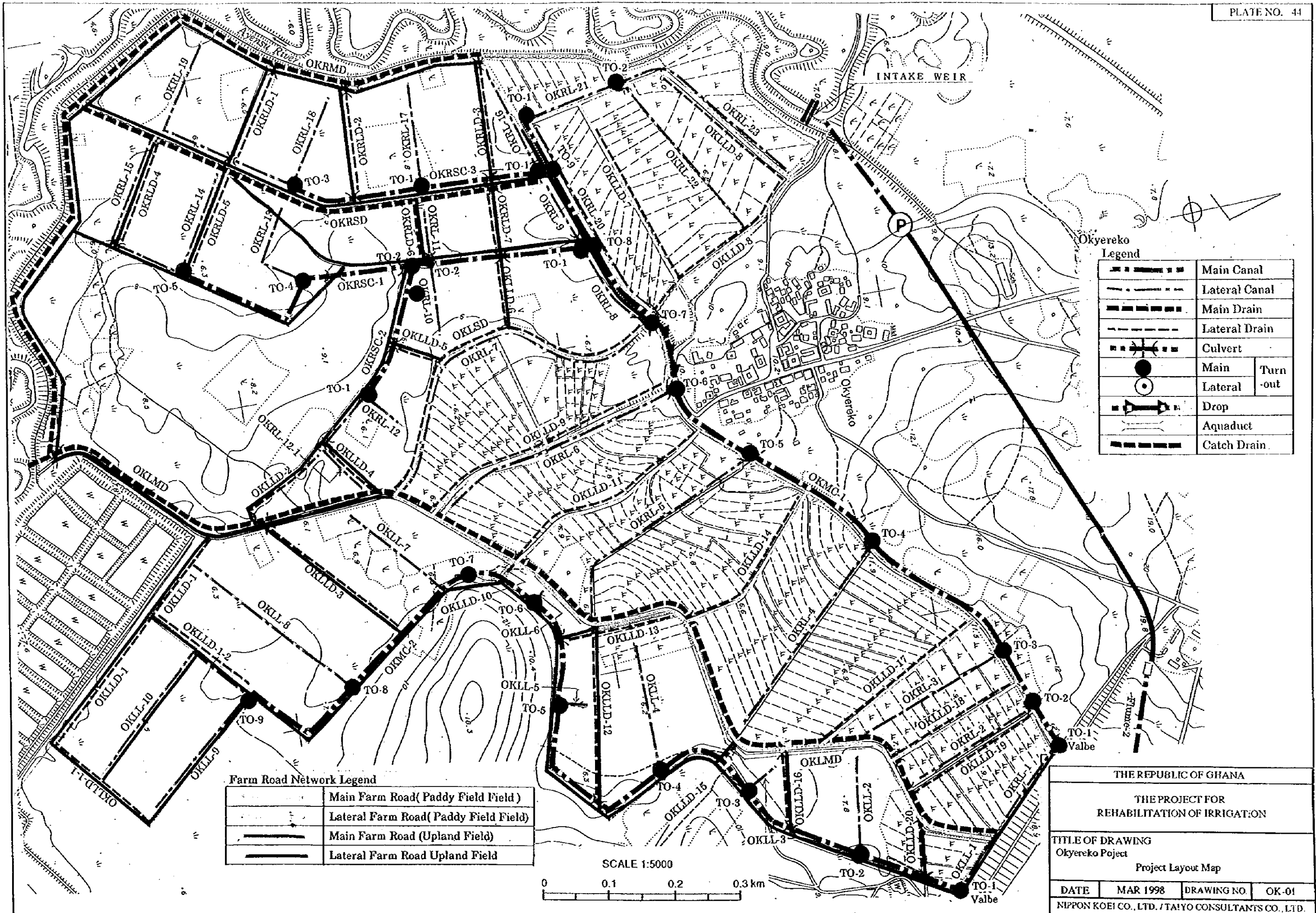


 : Upland Field Block  
 (Unit Design Discharge :  $Q(\text{lit/s}) = 0.138A^{0.45} \times 1000$ )  
 A: Area (ha)  
 Q: Drainage Discharge (lit/sec)  
 L: Length (m)

|                                                                                     |          |             |       |
|-------------------------------------------------------------------------------------|----------|-------------|-------|
| THE REPUBLIC OF GHANA                                                               |          |             |       |
| THE PROJECT FOR<br>REHABILITATION OF IRRIGATION                                     |          |             |       |
| TITLE OF DRAWING<br>Mankessim Project<br>Diagram for Irrigation and Drainage System |          |             |       |
| DATE                                                                                | MAR 1998 | DRAWING NO. | MA-02 |
| NIPPON KOEI CO., LTD. / TAIYO CONSULTANTS CO., LTD.                                 |          |             |       |



|                                                       |          |             |       |
|-------------------------------------------------------|----------|-------------|-------|
| THE REPUBLIC OF GHANA                                 |          |             |       |
| THE PROJECT FOR REHABILITATION OF IRRIGATION          |          |             |       |
| TITLE OF DRAWING<br>Mankessim Project<br>Pump Station |          |             |       |
| DATE                                                  | MAR 1998 | DRAWING NO. | MA-03 |
| NIPPON KOEI CO., LTD. / TAIYO CONSULTANTS CO., LTD.   |          |             |       |



Okyereko Legend

|  |                  |
|--|------------------|
|  | Main Canal       |
|  | Lateral Canal    |
|  | Main Drain       |
|  | Lateral Drain    |
|  | Culvert          |
|  | Main Turn-out    |
|  | Lateral Turn-out |
|  | Drop             |
|  | Aqueduct         |
|  | Catch Drain      |

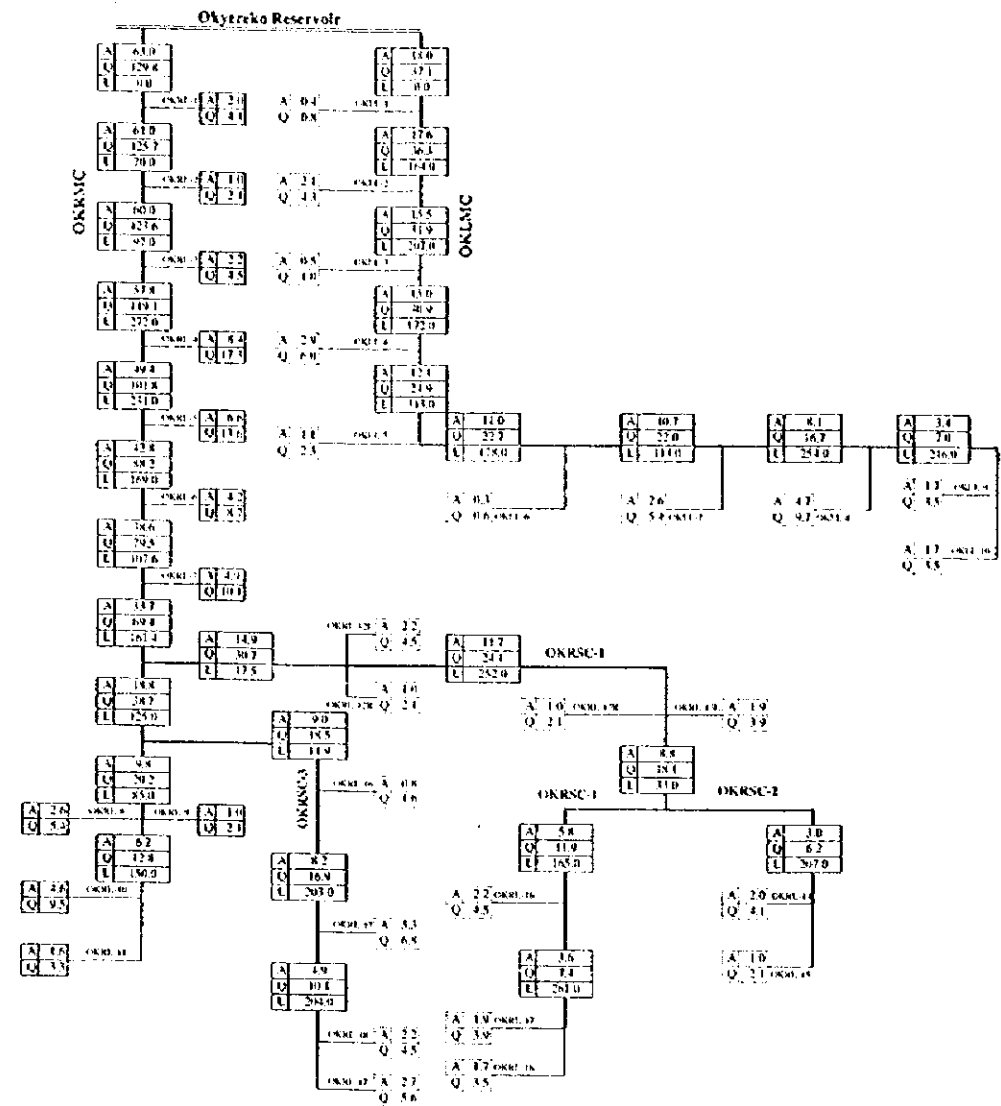
Farm Road Network Legend



|  |                                 |
|--|---------------------------------|
|  | Main Farm Road (Paddy Field)    |
|  | Lateral Farm Road (Paddy Field) |
|  | Main Farm Road (Upland Field)   |
|  | Lateral Farm Road Upland Field  |

SCALE 1:5000  
 0 0.1 0.2 0.3 km

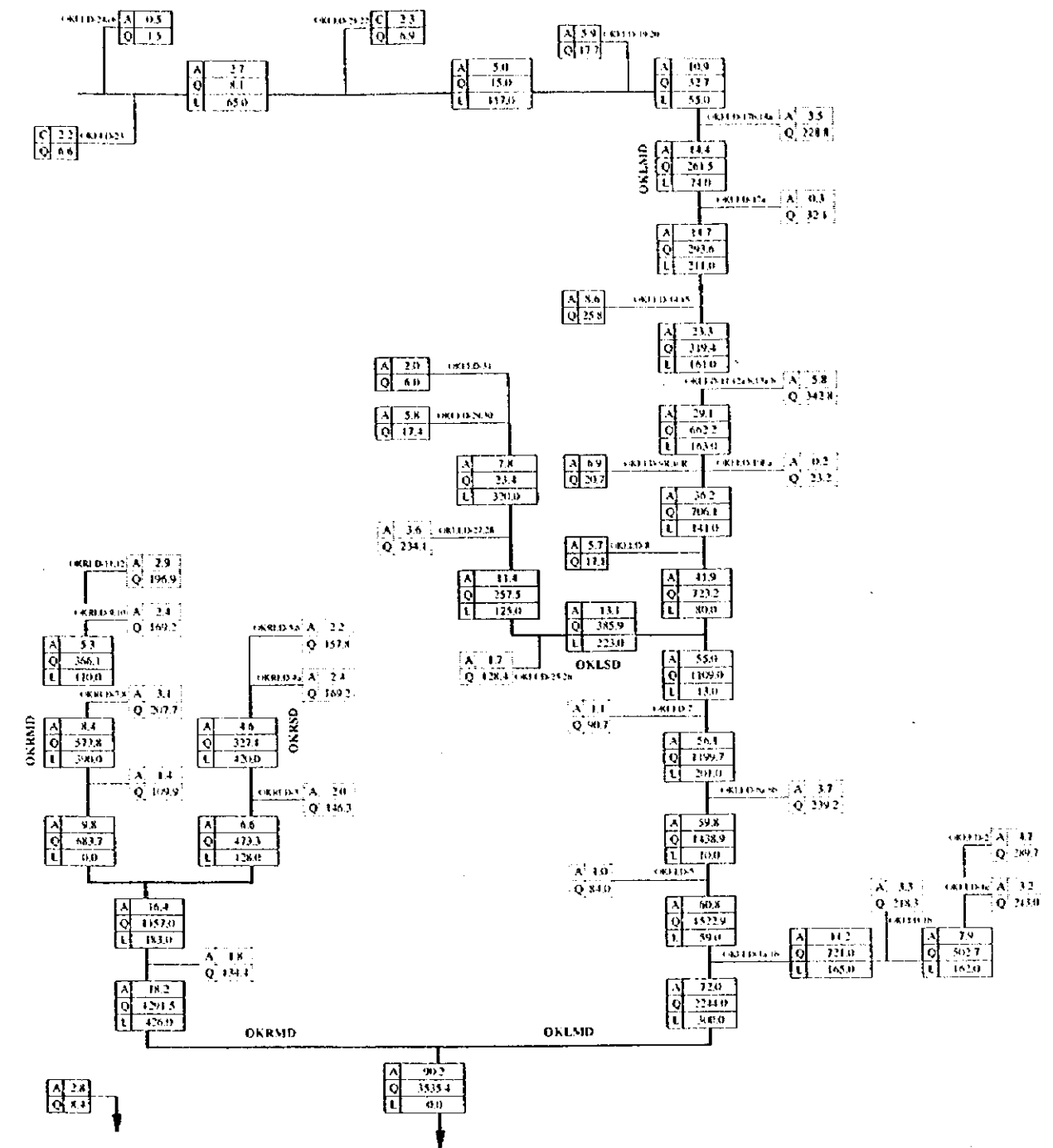
|                                                            |          |             |       |
|------------------------------------------------------------|----------|-------------|-------|
| THE REPUBLIC OF GHANA                                      |          |             |       |
| THE PROJECT FOR REHABILITATION OF IRRIGATION               |          |             |       |
| TITLE OF DRAWING<br>Okyereko Project<br>Project Layout Map |          |             |       |
| DATE                                                       | MAR 1998 | DRAWING NO. | OK-01 |
| NIPPON KOEI CO., LTD. / TAIYO CONSULTANTS CO., LTD.        |          |             |       |



Irrigation Diagram



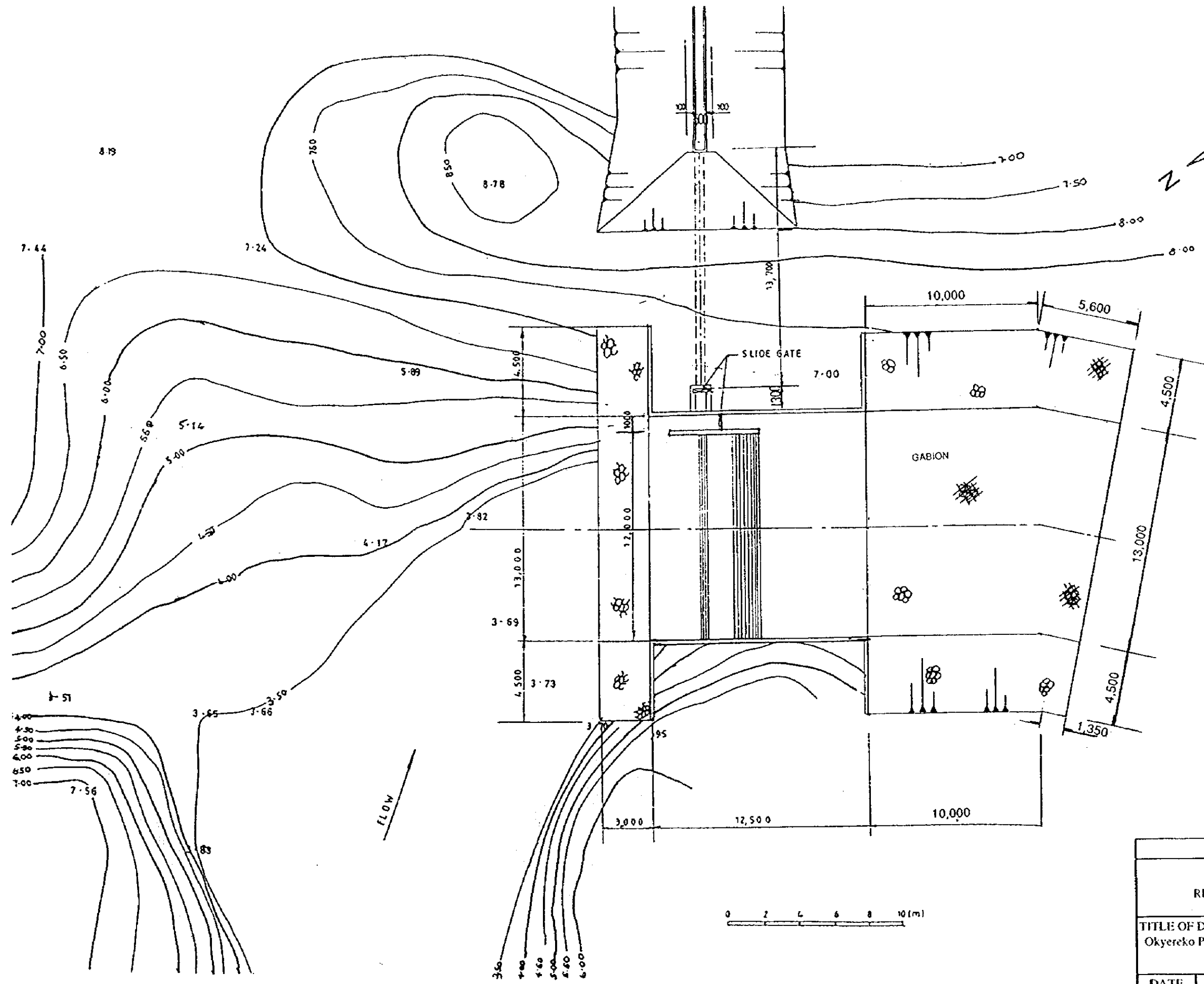
 : Paddy Block  
 (Unit Design Discharge : 2.06 lit/sec/ha)  
 : Paddy+Upland Field Block  
 (Unit Design Discharge : 2.06 lit/sec/ha)  
 A: Area (ha)  
 Q: Discharge (lit/sec)  
 L: Length (m)

Drainage Diagram

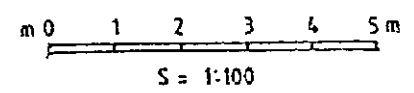
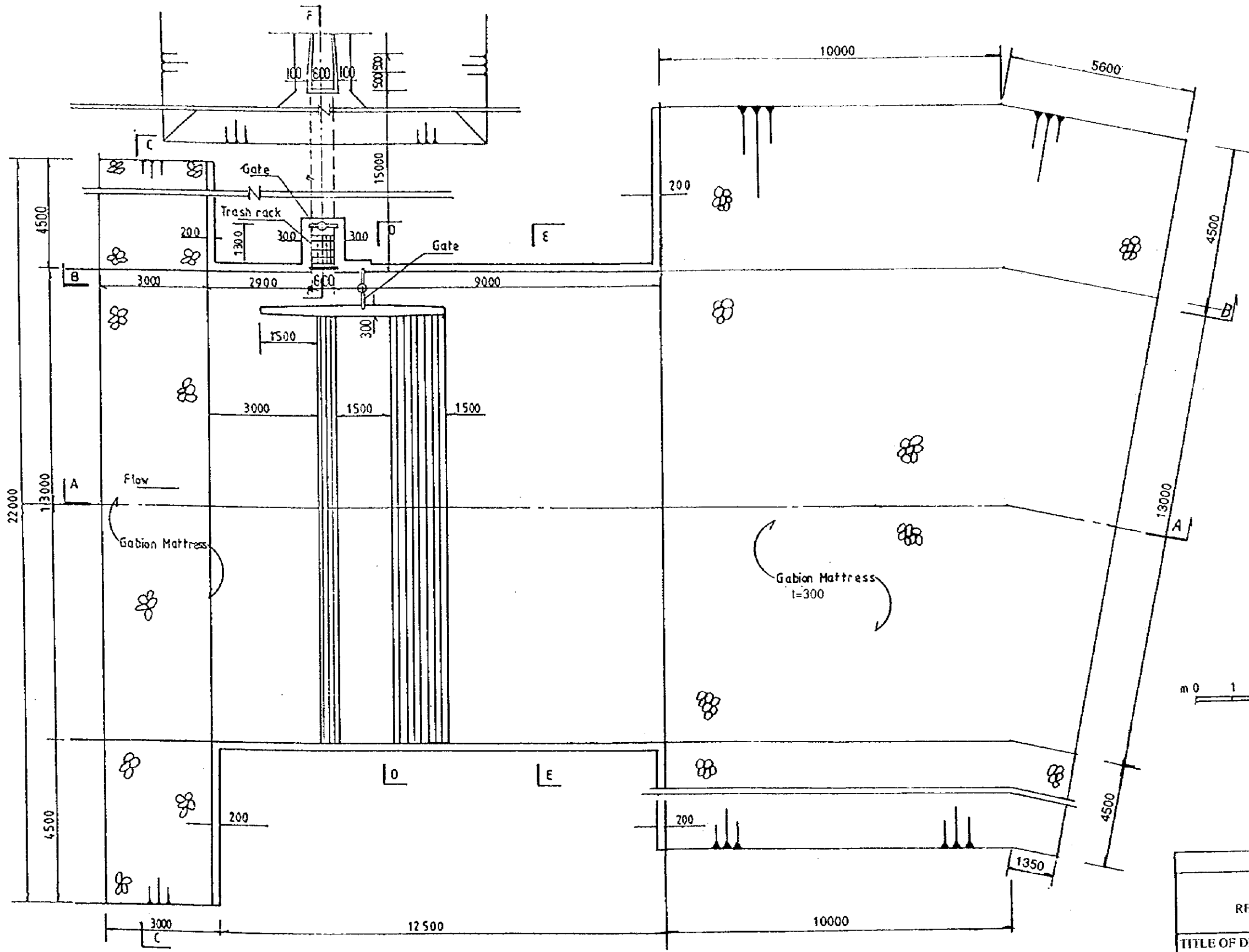


 : Paddy Block  
 (Unit Design Discharge : 3.0 lit/sec/ha)  
 : Paddy+Upland Field Block  
 (Unit Design Discharge :  $Q \text{ (lit/s)} = 0.084 \cdot A^{0.5} \cdot 1000$ )  
 A: Area (ha)  
 Q: Drainage Discharge (lit/sec)  
 L: Length (m)

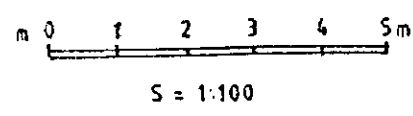
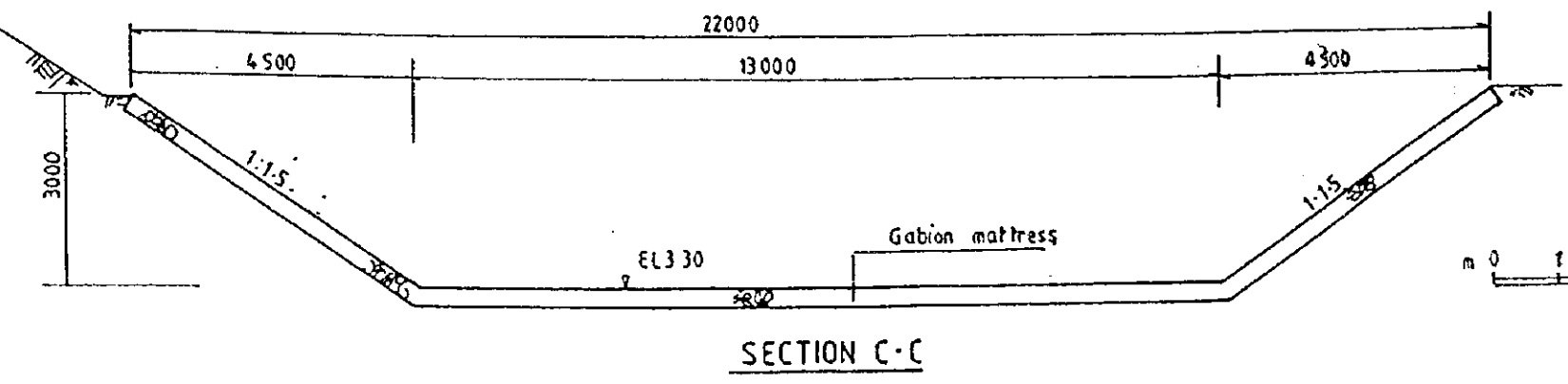
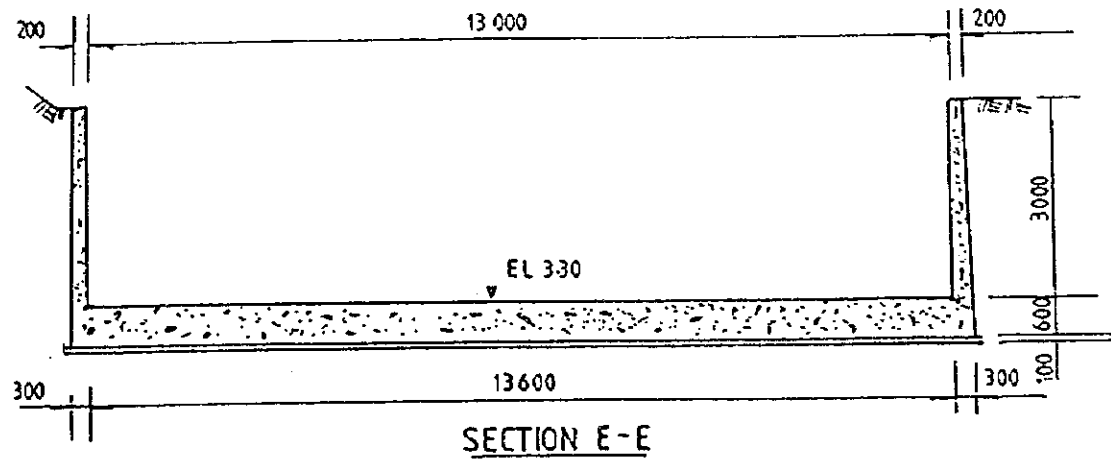
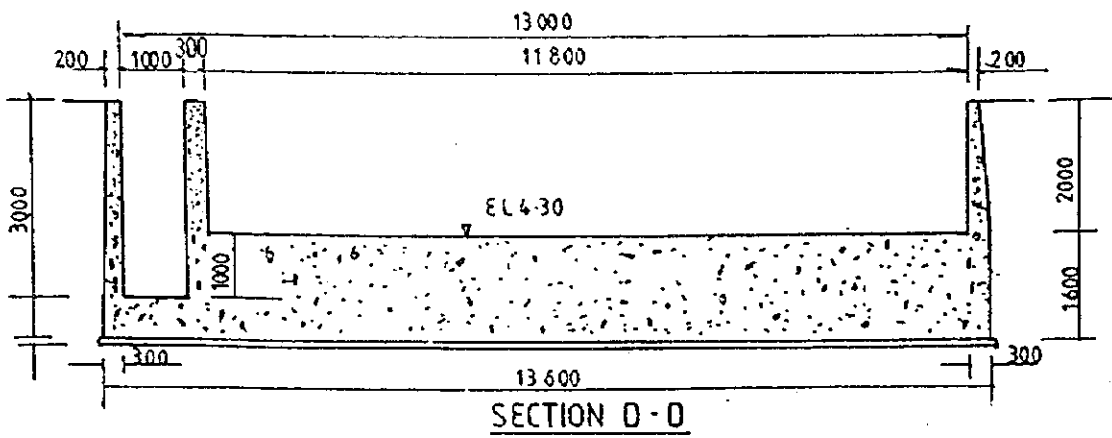
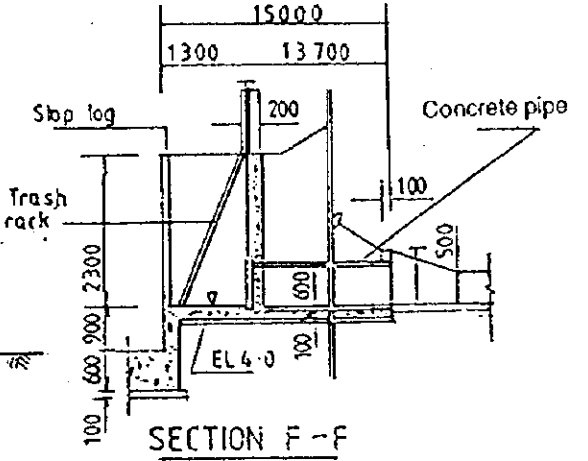
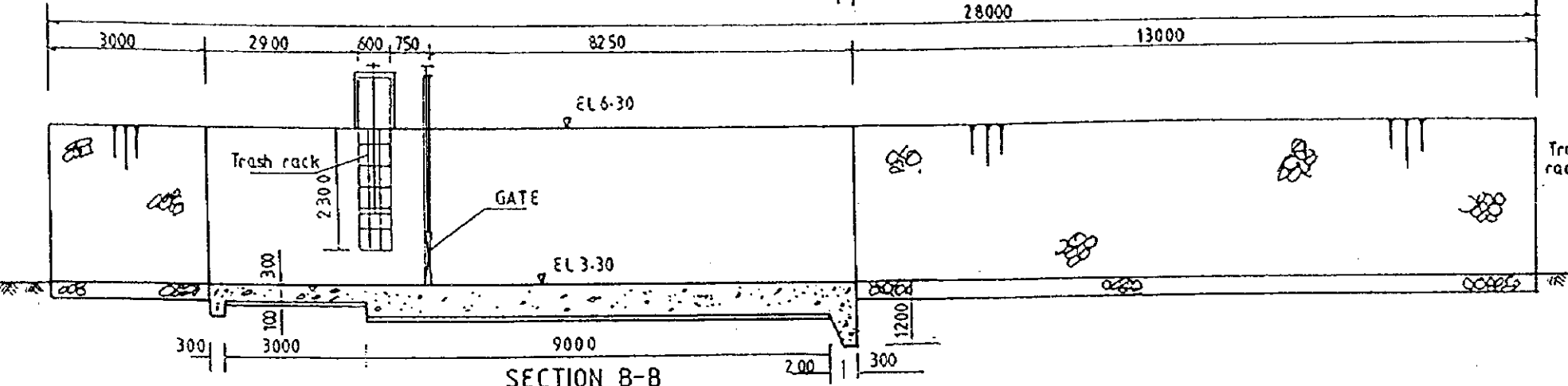
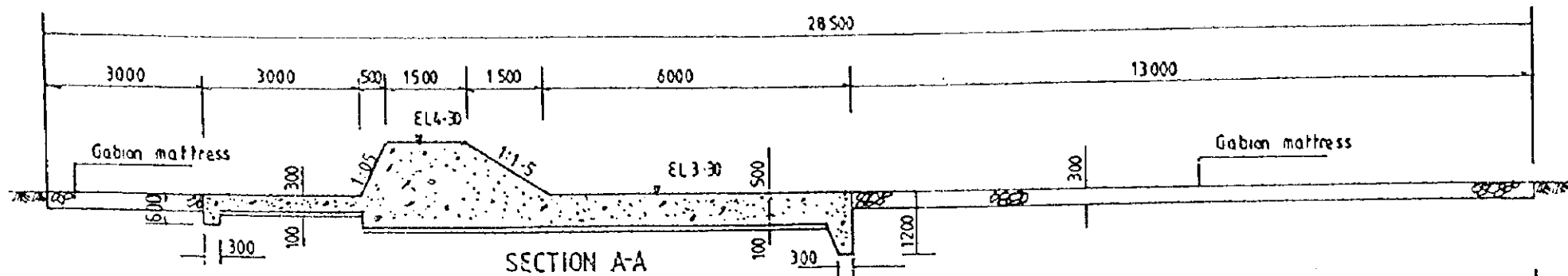
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|------------------------------------------------------------------------------------|----------|-------------|-------|
| THE REPUBLIC OF GHANA                                                              |          |             |       |
| THE PROJECT FOR<br>REHABILITATION OF IRRIGATION                                    |          |             |       |
| TITLE OF DRAWING<br>Okyereko Project<br>Diagram for Irrigation and Drainage System |          |             |       |
| DATE                                                                               | MAR 1998 | DRAWING NO. | OK-02 |
| NIPPON KOEI CO., LTD. / TAIYO CONSULTANTS CO., LTD.                                |          |             |       |



|                                                                      |          |             |       |
|----------------------------------------------------------------------|----------|-------------|-------|
| THE REPUBLIC OF GHANA                                                |          |             |       |
| THE PROJECT FOR<br>REHABILITATION OF IRRIGATION                      |          |             |       |
| TITLE OF DRAWING<br>Okyerko Project<br>General Layout of Intake Weir |          |             |       |
| DATE                                                                 | MAR 1998 | DRAWING NO. | OK-03 |
| NIPPON KOEI CO., LTD. / TAIYO CONSULTANTS CO., LTD.                  |          |             |       |

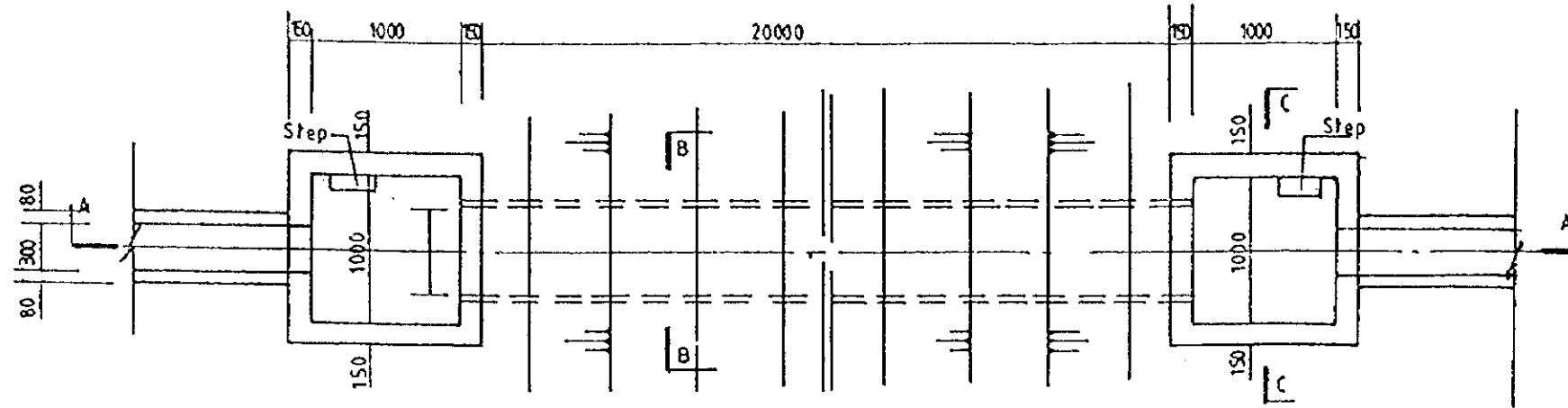


|                                                            |          |             |       |
|------------------------------------------------------------|----------|-------------|-------|
| THE REPUBLIC OF GHANA                                      |          |             |       |
| THE PROJECT FOR<br>REHABILITATION OF IRRIGATION            |          |             |       |
| TITLE OF DRAWING<br>Okyerek Project<br>Plan of Intake Weir |          |             |       |
| DATE                                                       | MAR 1998 | DRAWING NO. | OK-04 |
| NIPPON KOEI CO., LTD. / TAIYO CONSULTANTS CO., LTD.        |          |             |       |

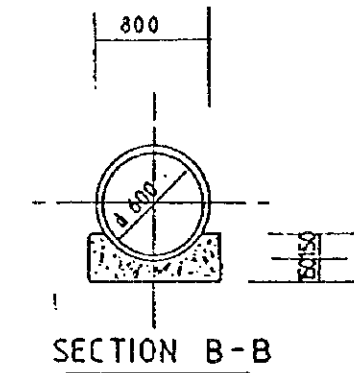


|                                                                        |          |             |       |
|------------------------------------------------------------------------|----------|-------------|-------|
| THE REPUBLIC OF GHANA                                                  |          |             |       |
| THE PROJECT FOR<br>REHABILITATION OF IRRIGATION                        |          |             |       |
| TITLE OF DRAWING<br>Okyereko Project<br>Typical Section of Intake Weir |          |             |       |
| DATE                                                                   | MAR 1998 | DRAWING NO. | OK-05 |
| NIPPON KOEI CO., LTD. / TAIYO CONSULTANTS CO., LTD.                    |          |             |       |

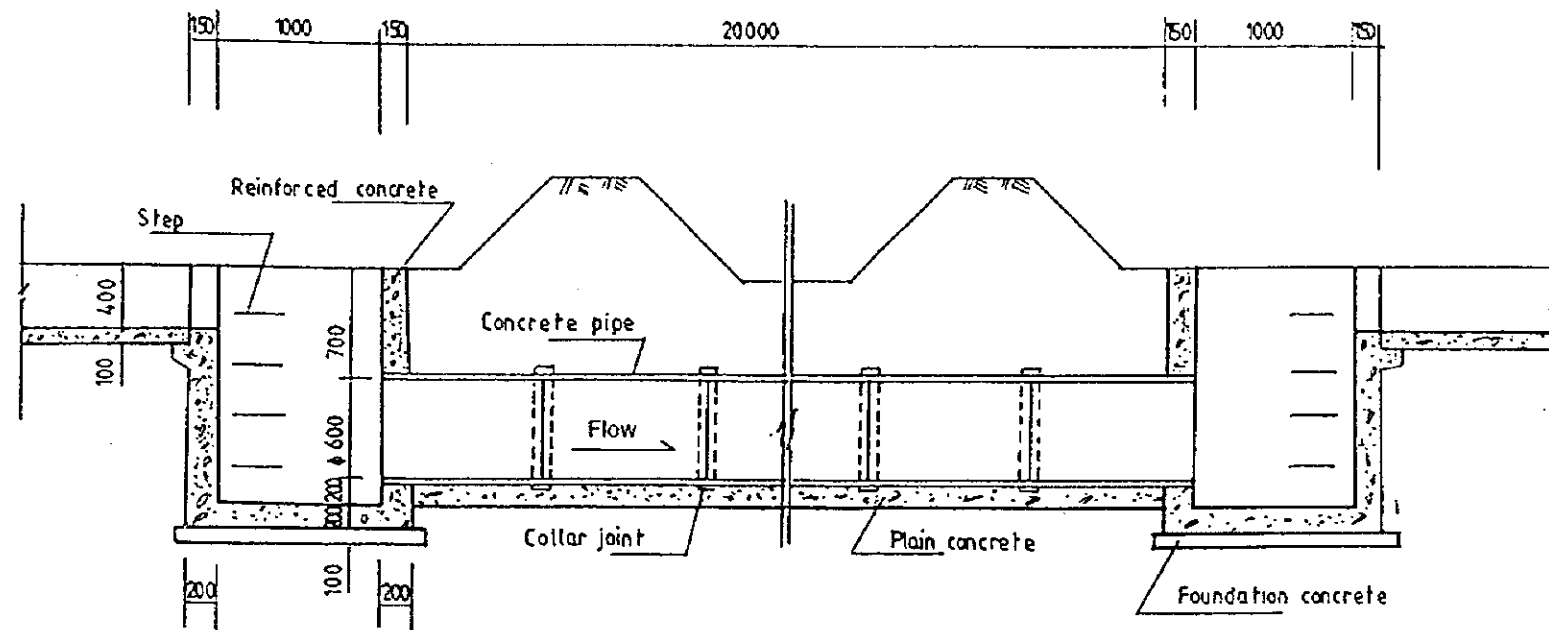




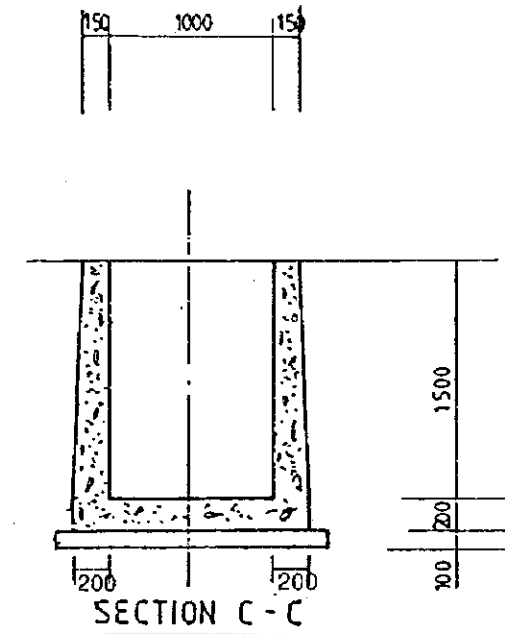
PLAN



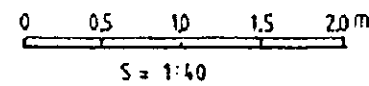
SECTION B-B



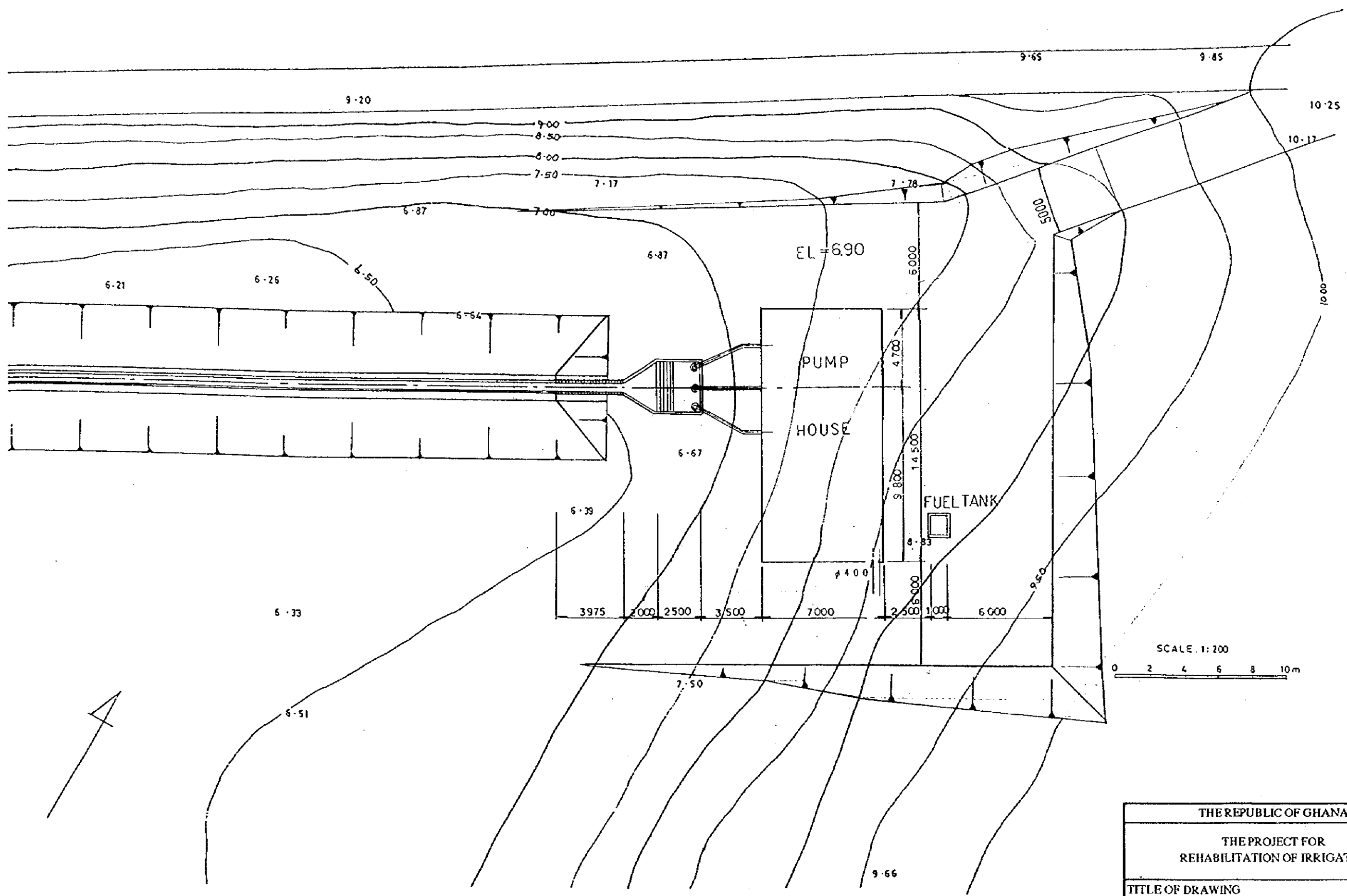
SECTION A-A



SECTION C-C

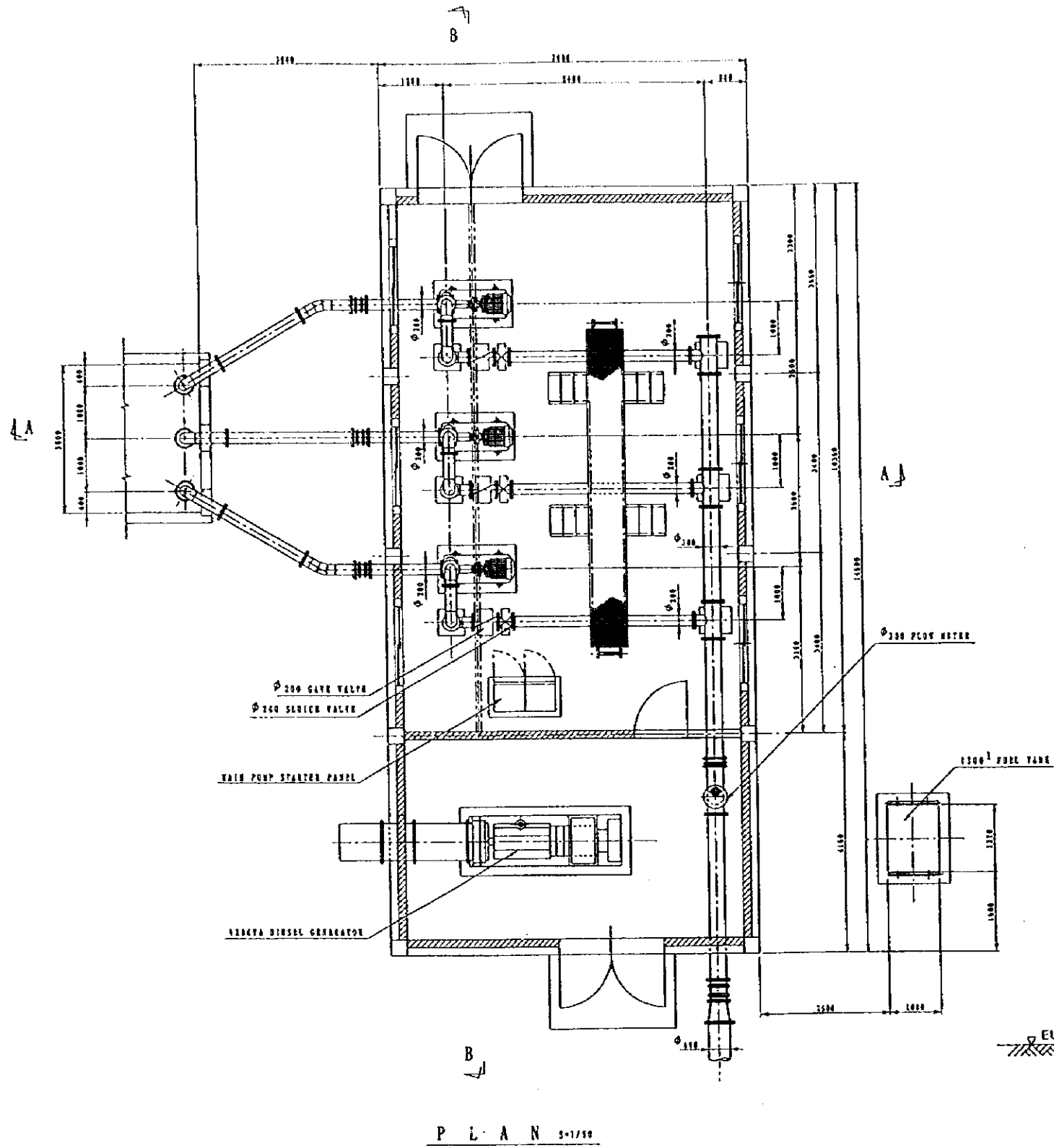


|                                                                |          |             |       |
|----------------------------------------------------------------|----------|-------------|-------|
| THE REPUBLIC OF GHANA                                          |          |             |       |
| THE PROJECT FOR<br>REHABILITATION OF IRRIGATION                |          |             |       |
| TITLE OF DRAWING<br>Okereko Project<br>Siphon of Inlet Channel |          |             |       |
| DATE                                                           | MAR 1998 | DRAWING NO. | OK-06 |
| NIPPON KOEI CO., LTD. / TAIYO CONSULTANTS CO., LTD.            |          |             |       |

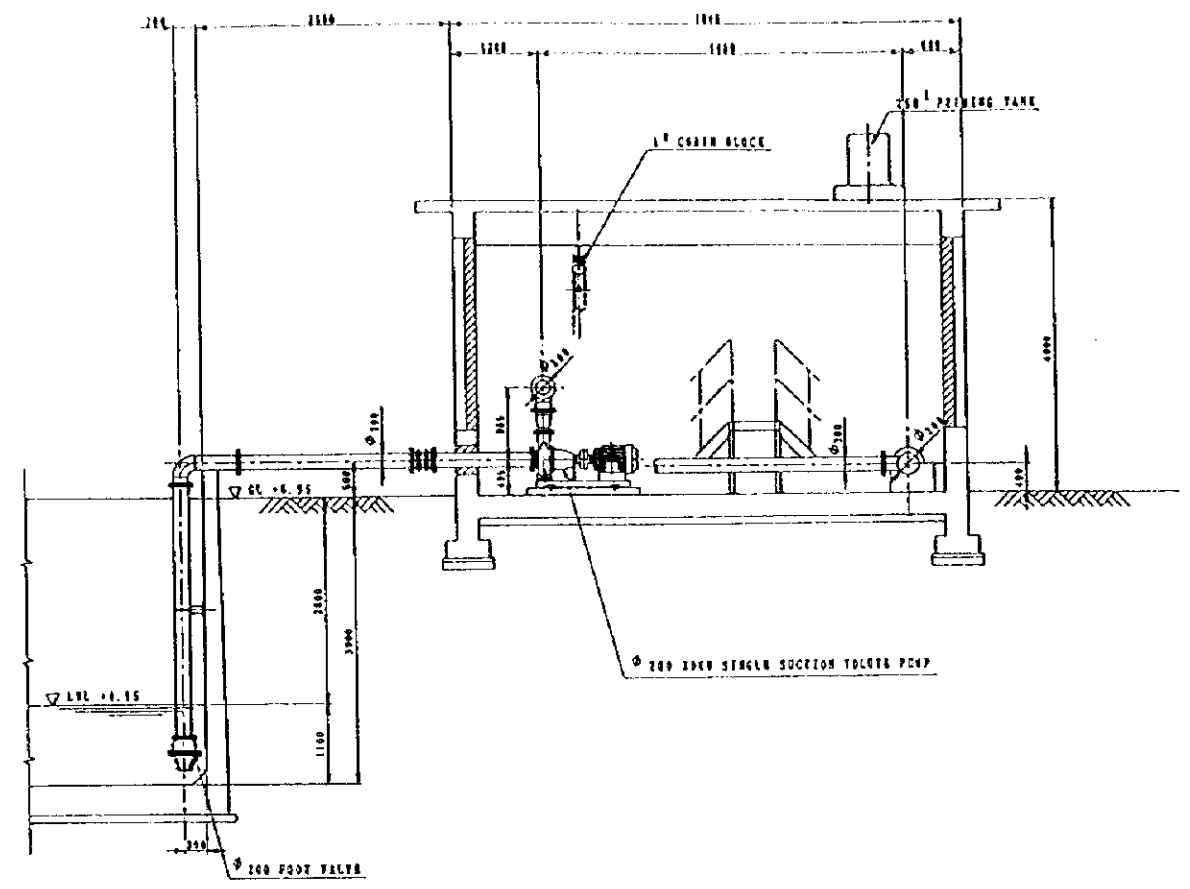


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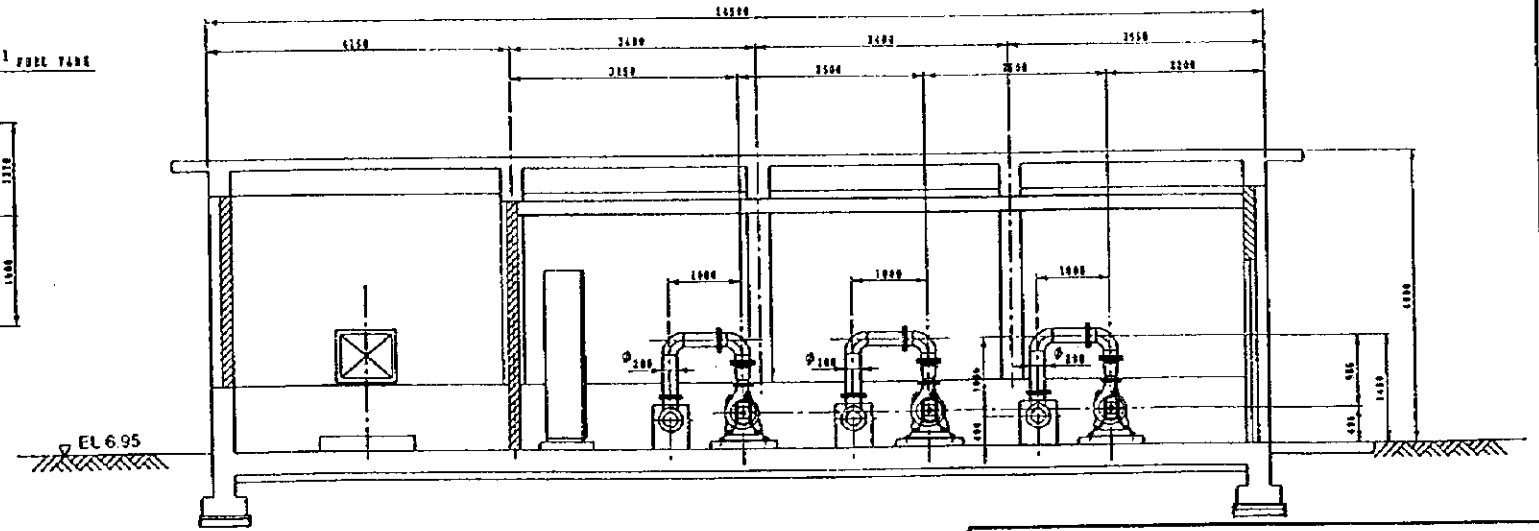
|                                                                       |          |             |       |
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| THE REPUBLIC OF GHANA                                                 |          |             |       |
| THE PROJECT FOR<br>REHABILITATION OF IRRIGATION                       |          |             |       |
| TITLE OF DRAWING<br>Okyerek Project<br>General Layout of Pump Station |          |             |       |
| DATE                                                                  | MAR 1998 | DRAWING NO. | OK-07 |
| NIPPON KOEI CO., LTD. / TAIYO CONSULTANTS CO., LTD.                   |          |             |       |



P L A N 5-1/88

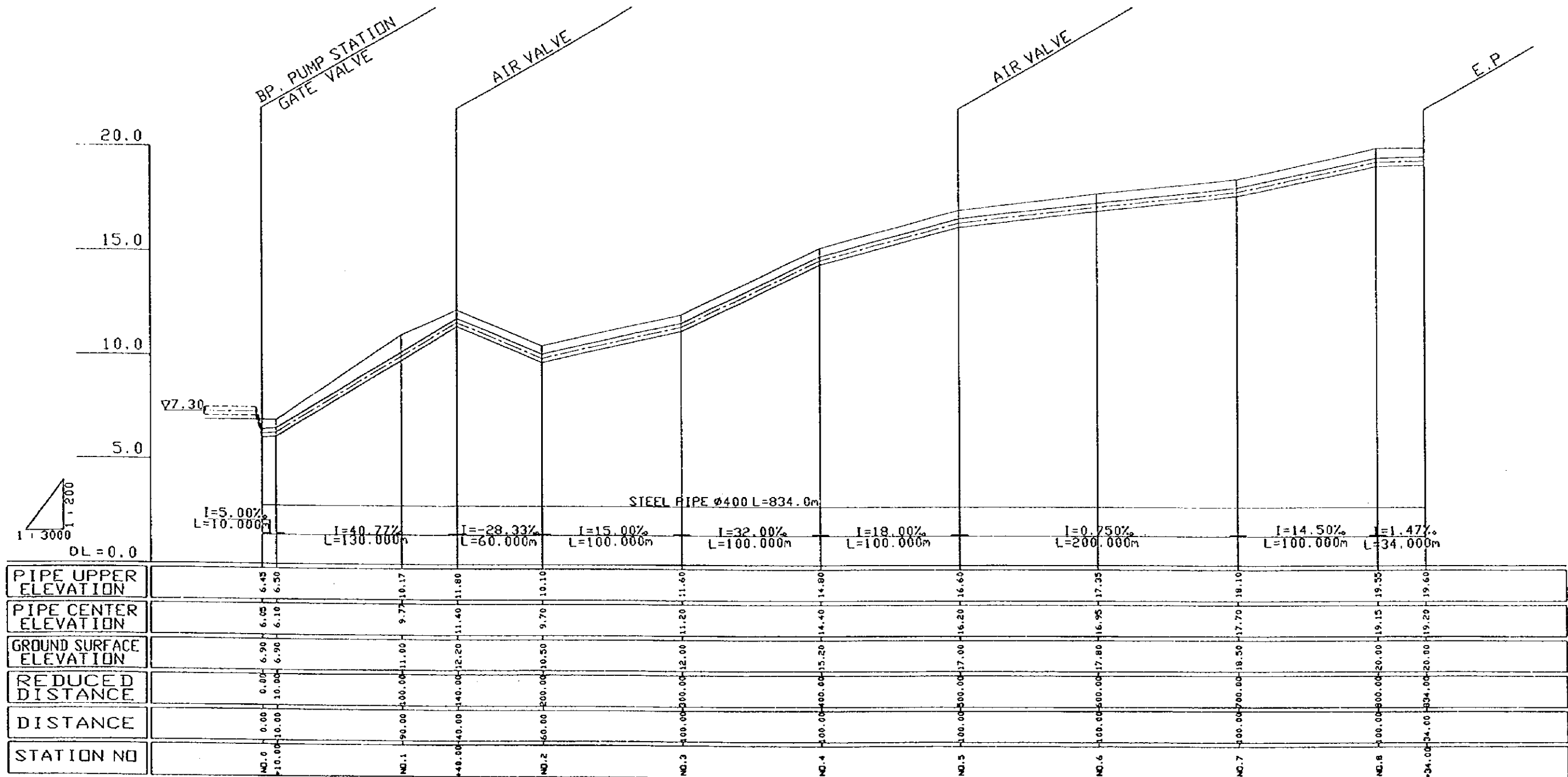


SECTION A - A 5-1/88

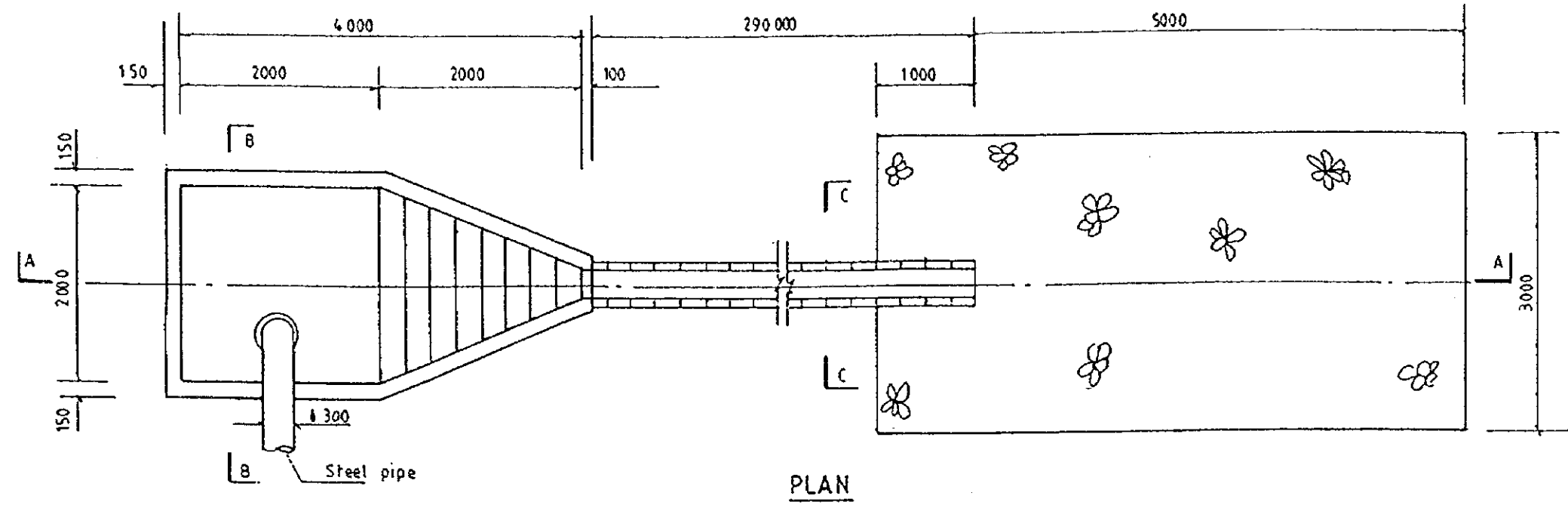


SECTION B - B 5-1/88

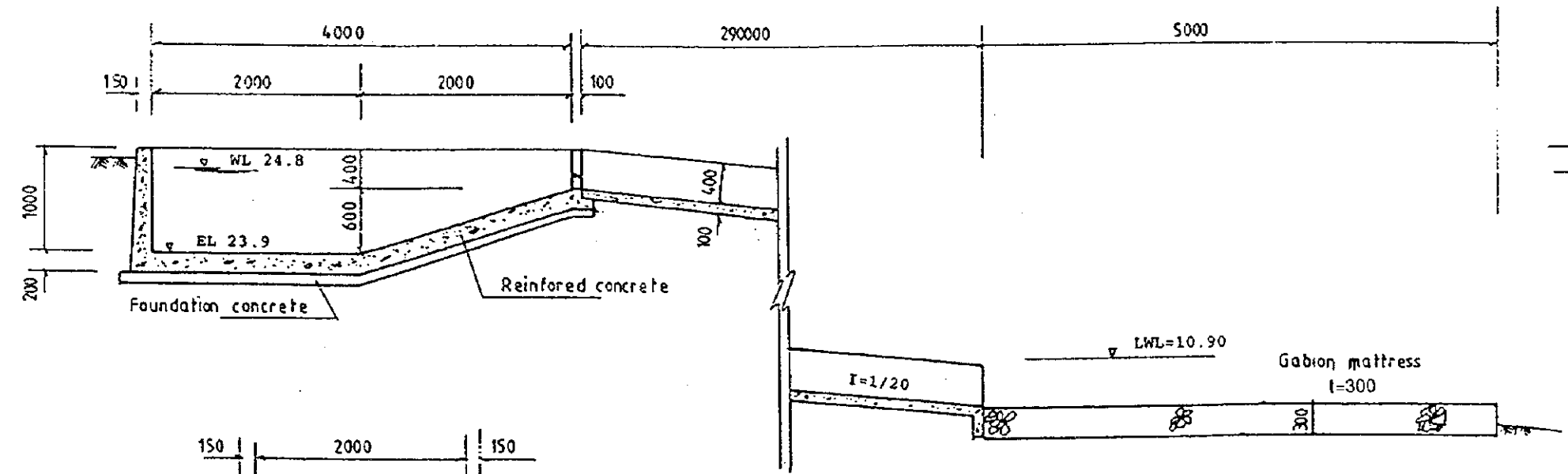
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|------------------------------------------------------|----------|-------------|-------|
| THE REPUBLIC OF GHANA                                |          |             |       |
| THE PROJECT FOR<br>REHABILITATION OF IRRIGATION      |          |             |       |
| TITLE OF DRAWING<br>Okyerako Project<br>Pump Station |          |             |       |
| DATE                                                 | MAR 1998 | DRAWING NO. | OK-08 |
| NIPPON KOEI CO., LTD. / TAIYO CONSULTANTS CO., LTD.  |          |             |       |



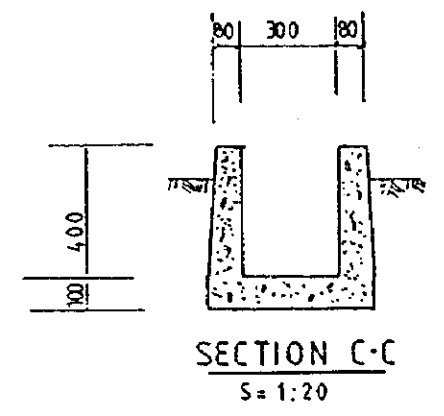
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| THE REPUBLIC OF GHANA                                            |          |             |       |
| THE PROJECT FOR<br>REHABILITATION OF IRRIGATION                  |          |             |       |
| TITLE OF DRAWING<br>Okyerako Project<br>Profile of Main Pipeline |          |             |       |
| DATE                                                             | MAR 1998 | DRAWING NO. | OK-09 |
| NIPPON KOEI CO., LTD. / TAIYO CONSULTANTS CO., LTD.              |          |             |       |



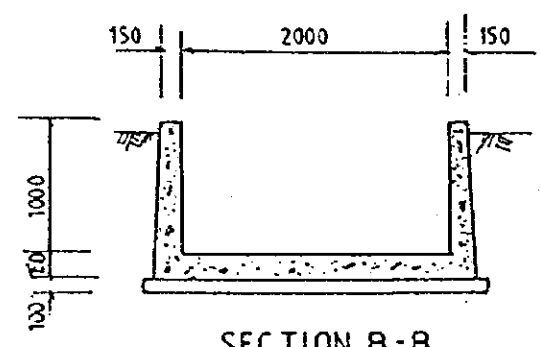
PLAN



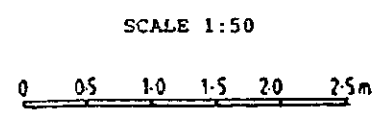
SECTION A-A



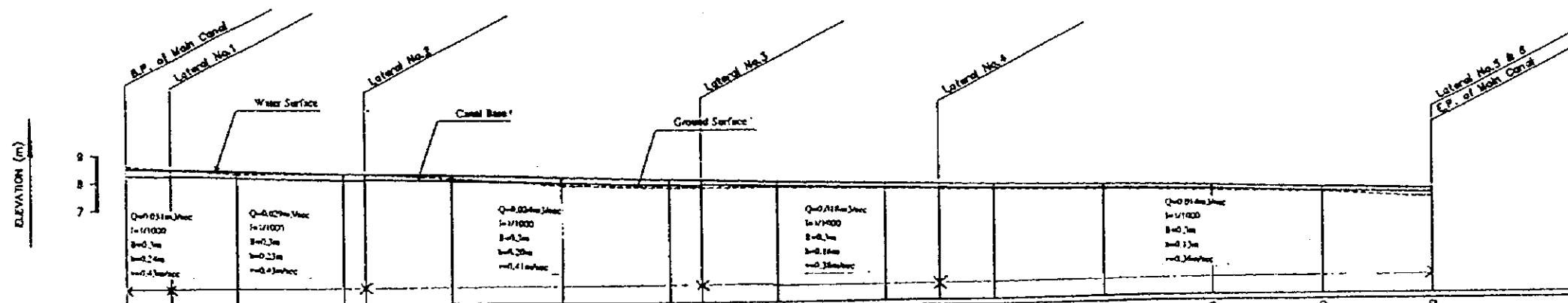
SECTION C-C  
S = 1:20



SECTION B-B



|                                                          |          |             |       |
|----------------------------------------------------------|----------|-------------|-------|
| THE REPUBLIC OF GHANA                                    |          |             |       |
| THE PROJECT FOR<br>REHABILITATION OF IRRIGATION          |          |             |       |
| TITLE OF DRAWING<br>Okyereko Project<br>Outlet and Chute |          |             |       |
| DATE                                                     | MAR 1998 | DRAWING NO. | OK-10 |
| NIPPON KOEI CO., LTD. / TAIYO CONSULTANTS CO., LTD.      |          |             |       |



|  | PROPOSED                |                      | EXISTING CONDITIONS    |                         |                          |         | REDUCED DISTANCE | DISTANCE | STATION NO. |
|--|-------------------------|----------------------|------------------------|-------------------------|--------------------------|---------|------------------|----------|-------------|
|  | WATER SURFACE ELEVATION | CANAL BASE ELEVATION | CANAL BANK ELE. (LEFT) | CANAL BANK ELE. (RIGHT) | GROUND SURFACE ELEVATION |         |                  |          |             |
|  | 8.00                    | 8.28                 |                        |                         | 10.01                    | 0.00    | 0.00             | Sta. 0   |             |
|  | 8.40                    | 8.17                 |                        |                         | 8.48                     | 40.00   | 40.00            | Sta. 1   |             |
|  | 8.30                    | 8.07                 |                        |                         | 7.80                     | 100.00  | 80.00            | Sta. 2   |             |
|  | 8.30                    | 8.00                 |                        |                         | 7.82                     | 200.00  | 100.00           | Sta. 3   |             |
|  | 8.10                    | 7.80                 |                        |                         | 7.82                     | 300.00  | 80.00            | Sta. 4   |             |
|  | 8.00                    | 7.80                 |                        |                         | 8.44                     | 400.00  | 100.00           | Sta. 5   |             |
|  | 7.80                    | 7.74                 |                        |                         | 7.88                     | 500.00  | 100.00           | Sta. 6   |             |
|  | 7.80                    | 7.74                 |                        |                         | 7.88                     | 600.00  | 100.00           | Sta. 7   |             |
|  | 7.70                    | 7.64                 |                        |                         | 7.86                     | 700.00  | 100.00           | Sta. 8   |             |
|  | 7.80                    | 7.64                 |                        |                         | 8.16                     | 800.00  | 100.00           | Sta. 9   |             |
|  | 7.80                    | 7.44                 |                        |                         | 8.23                     | 900.00  | 100.00           | Sta. 10  |             |
|  | 7.80                    | 7.38                 |                        |                         | 7.85                     | 1000.00 | 100.00           | Sta. 11  |             |
|  | 7.40                    | 7.28                 |                        |                         | 14.28                    | 1100.00 | 100.00           | Sta. 12  |             |
|  | 7.30                    | 7.18                 |                        |                         | 7.78                     | 1200.00 | 100.00           | Sta. 13  |             |

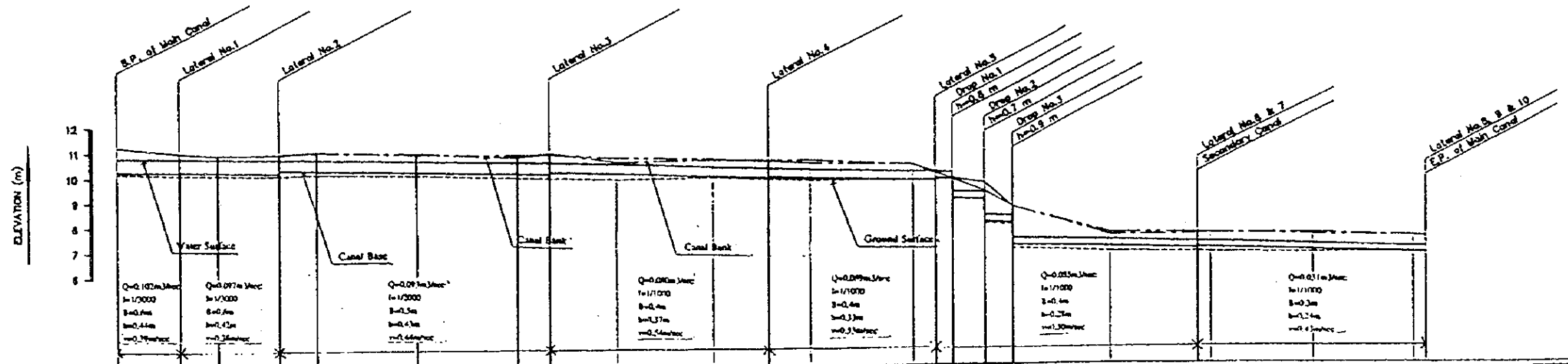
THE REPUBLIC OF GHANA

THE PROJECT FOR  
REHABILITATION OF IRRIGATION

TITLE OF DRAWING  
Okereko Project  
Profile of Left Main Irrigation Canal

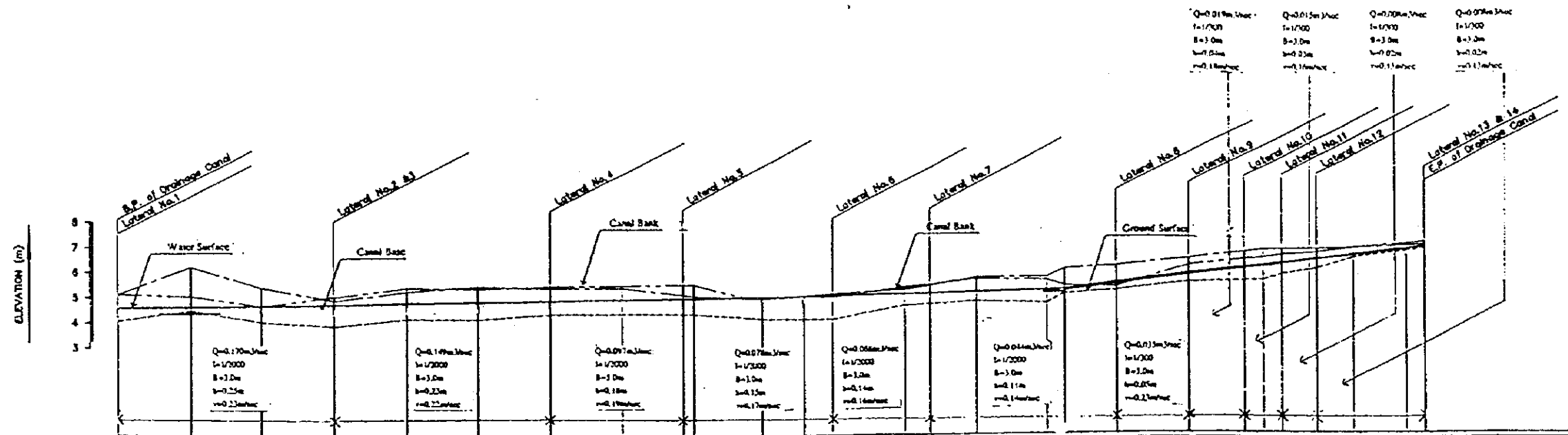
|      |          |             |       |
|------|----------|-------------|-------|
| DATE | MAR 1998 | DRAWING NO. | OK-11 |
|------|----------|-------------|-------|

NIPPON KOEI CO., LTD. / TAIYO CONSULTANTS CO., LTD.



| PROPOSED                 | WATER SURFACE ELEVATION | 10.82 | 10.80 | 10.78  | 10.77  | 10.76  | 10.70  | 10.68  | 10.66  | 10.66  | 10.64  | 10.29  | 10.24   | 10.23   | 10.22   | 10.20   | 7.18    | 7.15    |         |
|--------------------------|-------------------------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
|                          | CANAL BASE ELEVATION    | 10.25 | 10.27 | 10.27  | 10.32  | 10.32  | 10.37  | 10.32  | 10.19  | 10.08  | 10.03  | 9.93   | 7.15    | 7.11    | 7.13    | 7.02    | 6.92    | 6.91    |         |
| DISTING CONDITIONS       | CANAL BANK ELE.(LEFT)   | 11.25 | 11.02 | 10.84  | 10.89  | 11.04  | 10.90  | 10.98  | 10.82  | 10.76  | 10.70  | 10.61  | 10.64   | 10.33   | 9.93    | 9.43    | 8.81    | 7.78    | 7.53    |
|                          | CANAL BANK ELE.(RIGHT)  | 11.25 | 11.00 | 10.84  | 10.88  | 11.04  | 11.00  | 10.85  | 11.02  | 10.69  | 10.74  | 10.73  | 10.61   | 10.84   | 10.33   | 9.93    | 9.43    | 8.81    | 7.89    |
| GROUND SURFACE ELEVATION |                         | 10.25 | 10.21 | 10.17  | 10.19  | 10.18  | 10.19  | 10.08  | 10.02  | 10.02  | 10.08  | 10.10  | 10.03   | 9.94    | 9.83    | 10.00   | 8.12    | 8.16    | 7.02    |
| REDUCED DISTANCE         |                         | 0.00  | 81.00 | 100.00 | 182.00 | 208.00 | 300.00 | 400.00 | 432.00 | 500.00 | 600.00 | 687.00 | 700.00  | 800.00  | 823.00  | 838.00  | 872.40  | 900.00  | 1000.00 |
| DISTANCE                 |                         | 0.00  | 81.00 | 161.00 | 243.00 | 311.00 | 411.00 | 511.00 | 611.00 | 711.00 | 811.00 | 900.00 | 1000.00 | 1087.00 | 1100.00 | 1100.00 | 1200.00 | 1300.00 | 1312.00 |
| STATION NO.              |                         | Sta 0 | Sta 1 | Sta 2  | Sta 3  | Sta 4  | Sta 5  | Sta 6  | Sta 7  | Sta 8  | Sta 9  | Sta 10 | Sta 11  | Sta 12  | Sta 13  | Sta 14  | Sta 15  | Sta 16  | Sta 17  |

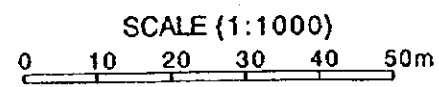
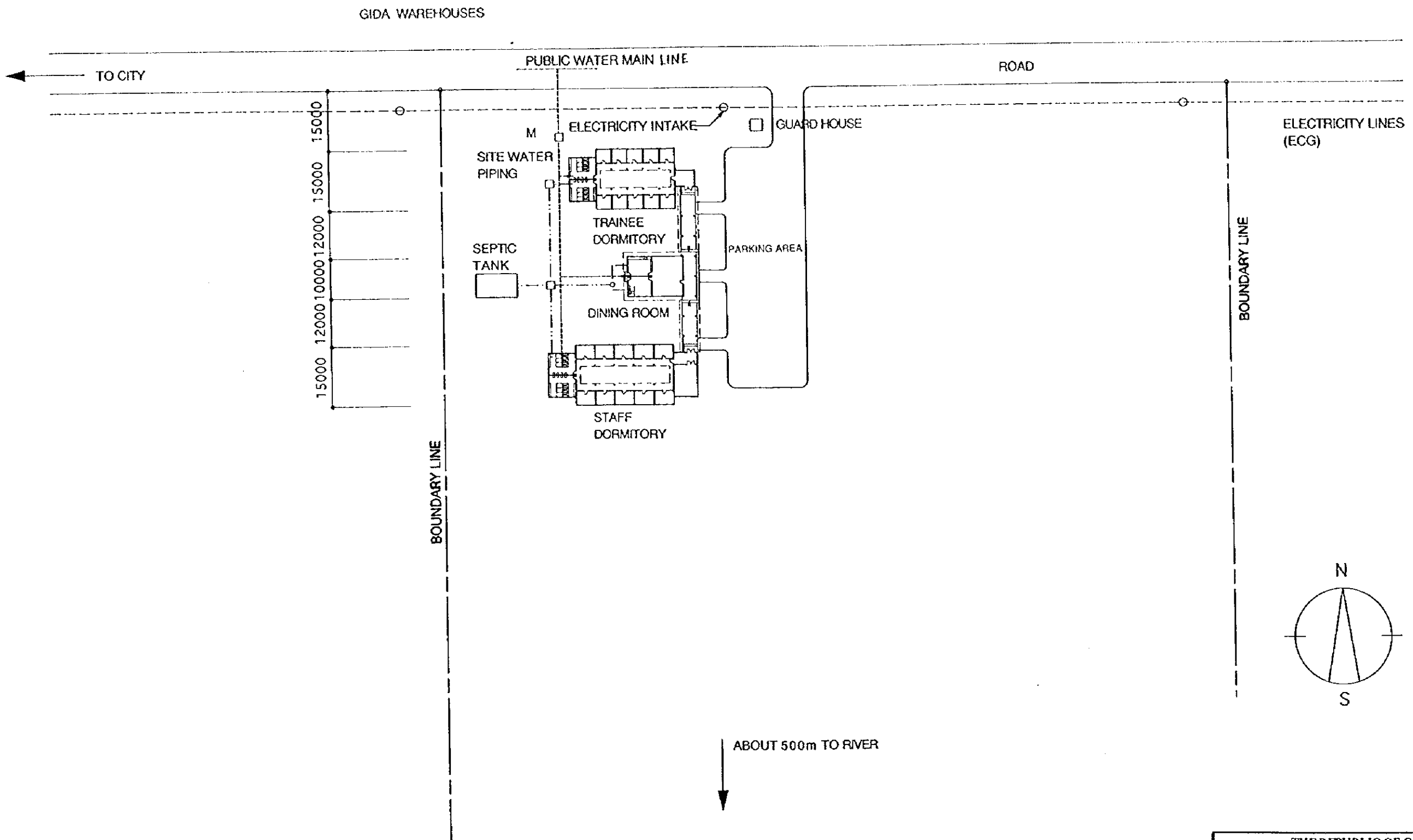
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|--------------------------------------------------------------------------------|----------|-------------|-------|
| THE REPUBLIC OF GHANA                                                          |          |             |       |
| THE PROJECT FOR REHABILITATION OF IRRIGATION                                   |          |             |       |
| TITLE OF DRAWING<br>Okyereko Project<br>Profile of Right Main Irrigation Canal |          |             |       |
| DATE                                                                           | MAR 1998 | DRAWING NO. | OK-12 |
| NIPPON KOEI CO., LTD. / TAIYO CONSULTANTS CO., LTD.                            |          |             |       |



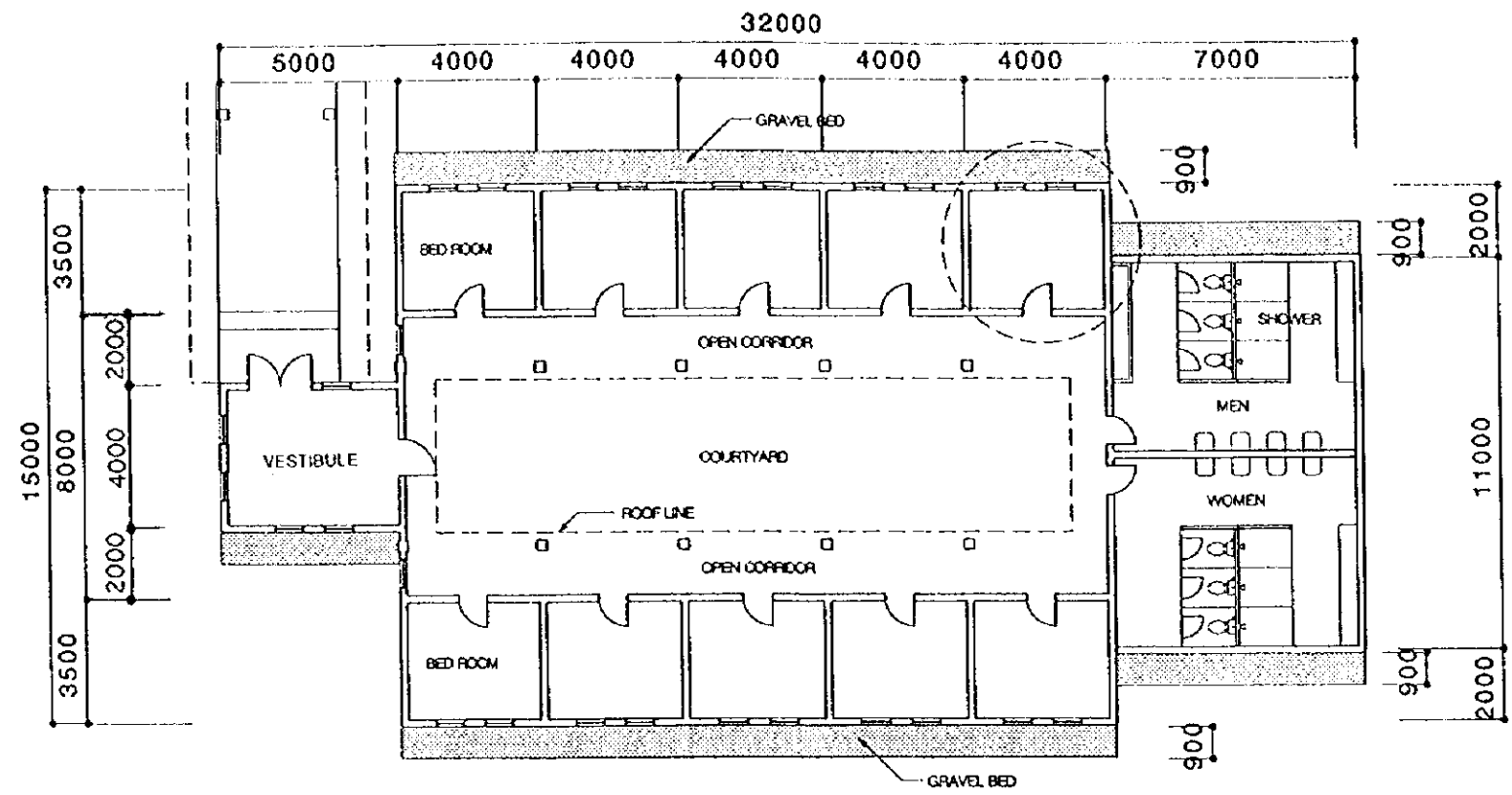
| PROPOSED            | WATER SURFACE ELEVATION  | 4.87   | 4.82   | 4.87   | 4.72   | 4.77   | 4.82   | 4.87   | 4.82   | 4.87   | 4.82   | 4.87   | 4.82    | 4.87    | 4.82    | 4.87    | 4.82    | 4.87    | 4.82    | 4.87    | 4.82    | 4.87    |         |         |         |         |         |         |      |
|---------------------|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|
|                     | CANAL BASE ELEVATION     |        | 4.37   |        |        |        |        |        |        |        |        |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |      |
| EXISTING CONDITIONS | CANAL BANK ELE. (LEFT)   | 5.12   | 6.00   | 4.80   | 6.00   | 5.30   | 6.34   | 5.44   | 6.47   | 5.31   | 6.08   | 4.83   | 4.64    | 5.01    | 5.30    | 4.49    | 4.81    | 4.39    | 4.32    | 4.10    | 4.30    | 4.46    | 4.12    | 4.15    | 4.23    | 4.38    | 4.83    | 4.80    |      |
|                     | CANAL BANK ELE. (RIGHT)  | 5.11   | 6.21   | 5.40   | 4.80   | 6.33   | 6.44   | 6.38   | 6.37   | 5.11   | 6.08   | 4.83   | 4.08    | 5.14    | 5.28    | 4.44    | 4.74    | 4.09    | 4.18    | 4.43    | 4.68    | 4.77    | 4.78    | 4.81    | 4.68    | 4.80    | 4.95    | 7.03    | 7.09 |
|                     | GROUND SURFACE ELEVATION | 4.00   | 4.48   | 4.42   | 4.61   | 3.81   | 4.14   | 4.38   | 4.30   | 4.17   | 4.26   | 4.32   | 4.37    | 4.18    | 4.65    | 4.34    | 4.50    | 4.65    | 5.07    | 5.74    | 5.48    | 5.84    | 5.89    | 5.70    | 5.85    | 6.03    | 6.43    | 6.90    | 6.98 |
| REDUCED DISTANCE    | 0.00                     | 100.00 | 300.00 | 300.00 | 600.00 | 900.00 | 900.00 | 700.00 | 795.00 | 800.00 | 900.00 | 940.00 | 1000.00 | 1100.00 | 1130.00 | 1200.00 | 1300.00 | 1330.00 | 1400.00 | 1500.00 | 1575.00 | 1600.00 | 1630.00 | 1675.00 | 1725.00 | 1800.00 | 1830.00 | 1830.00 |      |
| DISTANCE            | 0.00                     | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 85.00  | 15.00  | 100.00 | 40.00  | 60.00   | 100.00  | 30.00   | 60.00   | 20.00   | 70.00   | 100.00  | 70.00   | 20.00   | 50.00   | 40.00   | 70.00   | 70.00   | 20.00   | 20.00   |         |      |
| STATION NO.         |                          | St. 0  | St. 1  | St. 2  | St. 3  | St. 4  | St. 5  | St. 6  | St. 7  | St. 8  | St. 9  | St. 10 | St. 11  | St. 12  | St. 13  | St. 14  | St. 15  | St. 16  | St. 17  | St. 18  | St. 19  | St. 20  | St. 21  | St. 22  | St. 23  | St. 24  | St. 25  |         |      |

THE REPUBLIC OF GHANA  
 THE PROJECT FOR  
 REHABILITATION OF IRRIGATION  
 TITLE OF DRAWING  
 Okyereko Project  
 Profile of Left Main Drain  
 DATE: MAR 1998    DRAWING NO.:    OK-13  
 NIPPON KOEI CO., LTD. / TAIYO CONSULTANTS CO., LTD.

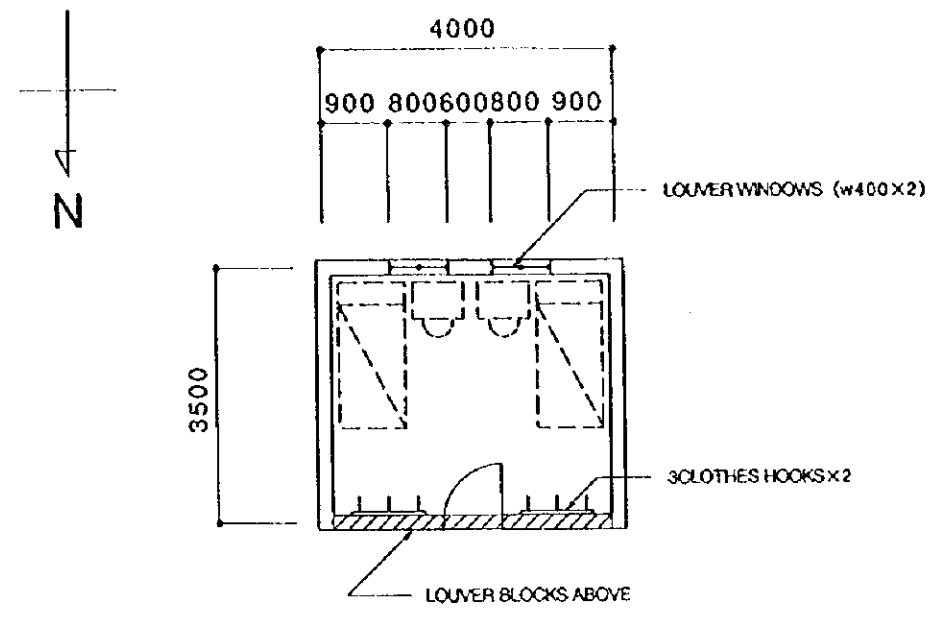




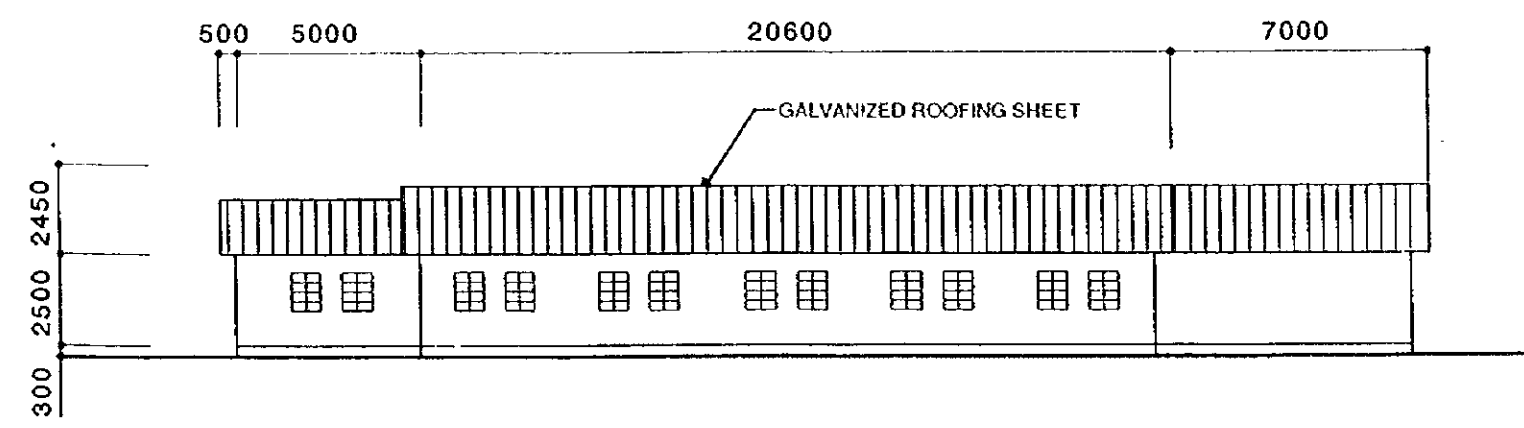
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| THE REPUBLIC OF GHANA                                                                |          |             |       |
| THE PROJECT FOR<br>REHABILITATION OF IRRIGATION                                      |          |             |       |
| TITLE OF DRAWING<br>BUILDING WORK<br>Site Plan for Architectural Facilities at Accra |          |             |       |
| DATE                                                                                 | MAR 1998 | DRAWING NO. | BW-01 |
| NIPPON KOEI CO., LTD. / TAIYO CONSULTANTS CO., LTD.                                  |          |             |       |



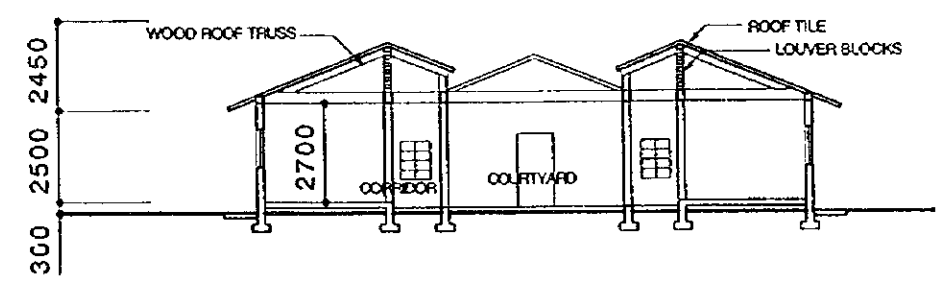
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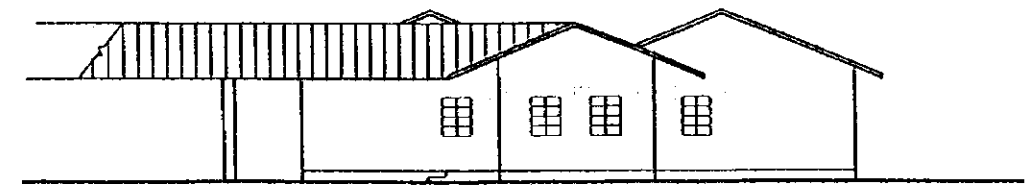
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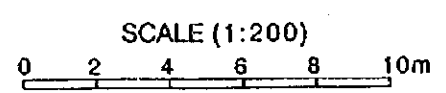
SIDE ELEVATION



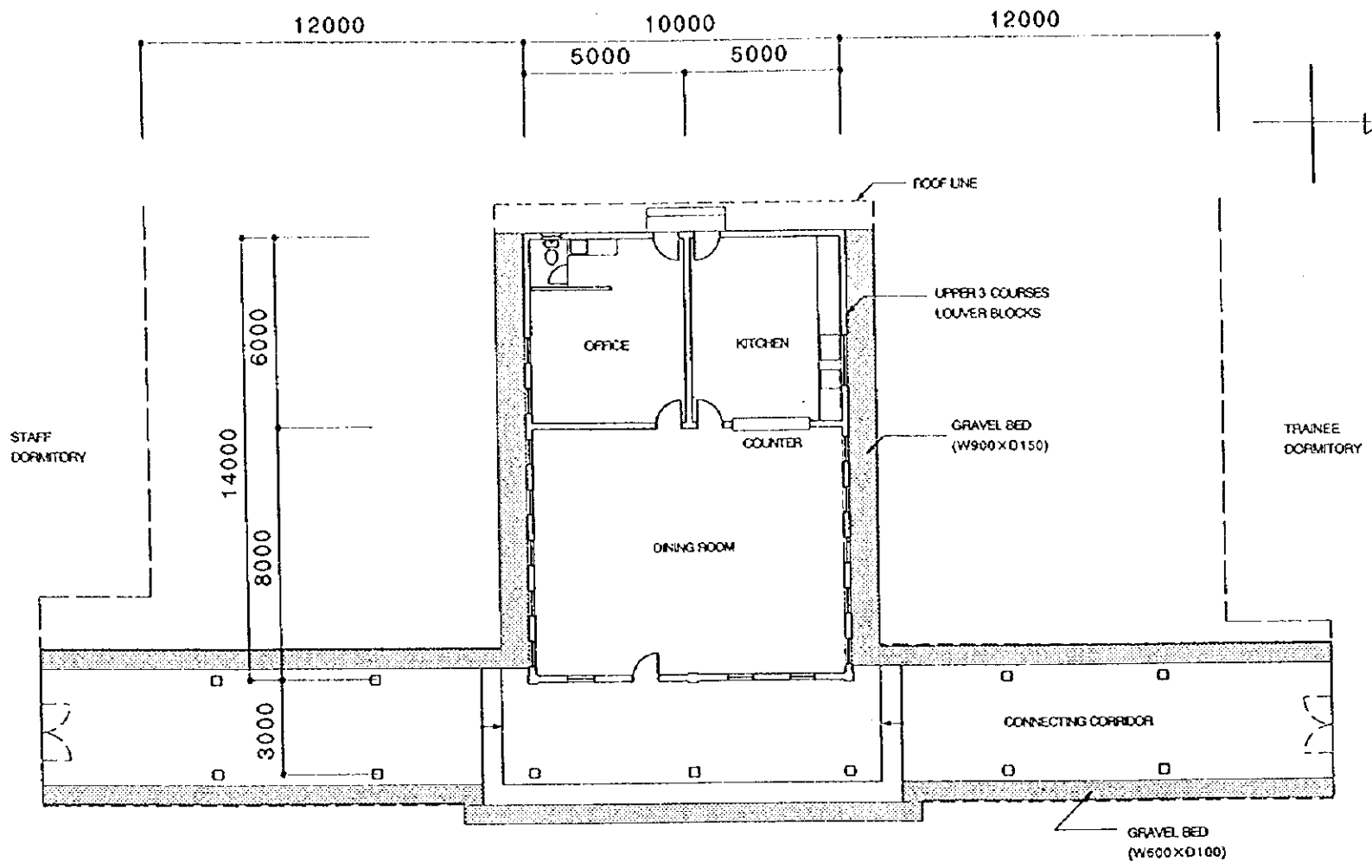
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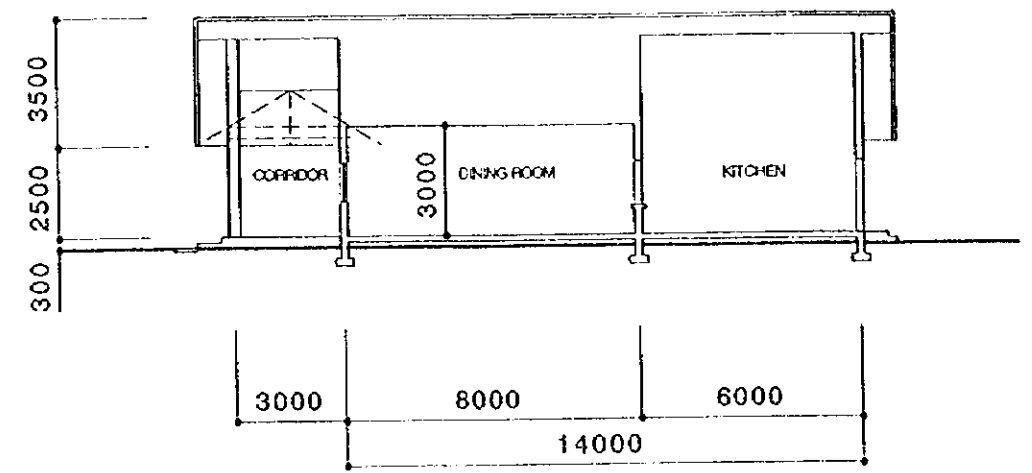
FRONT ELEVATION



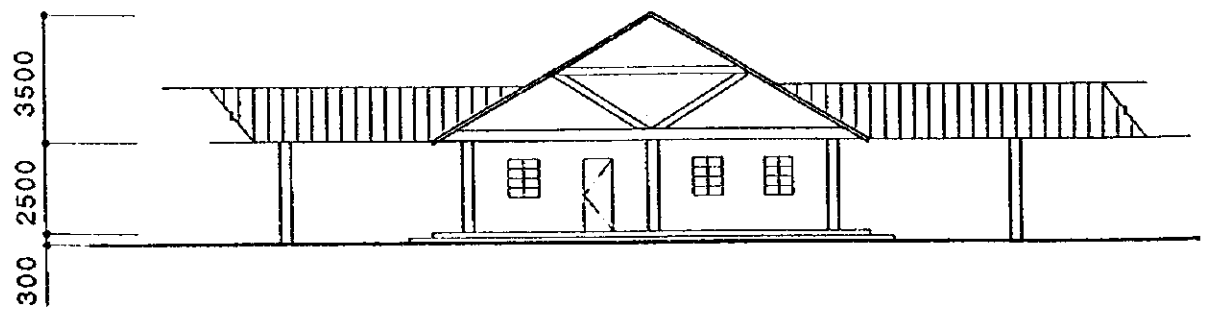
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| THE REPUBLIC OF GHANA                                                |          |             |       |
| THE PROJECT FOR<br>REHABILITATION OF IRRIGATION                      |          |             |       |
| TITLE OF DRAWING<br>BUILDING WORK<br>Dormitory for farmer's trainees |          |             |       |
| DATE                                                                 | MAR 1998 | DRAWING NO. | BW-02 |
| NIPPON KOEI CO., LTD. / TAIYO CONSULTANTS CO., LTD.                  |          |             |       |



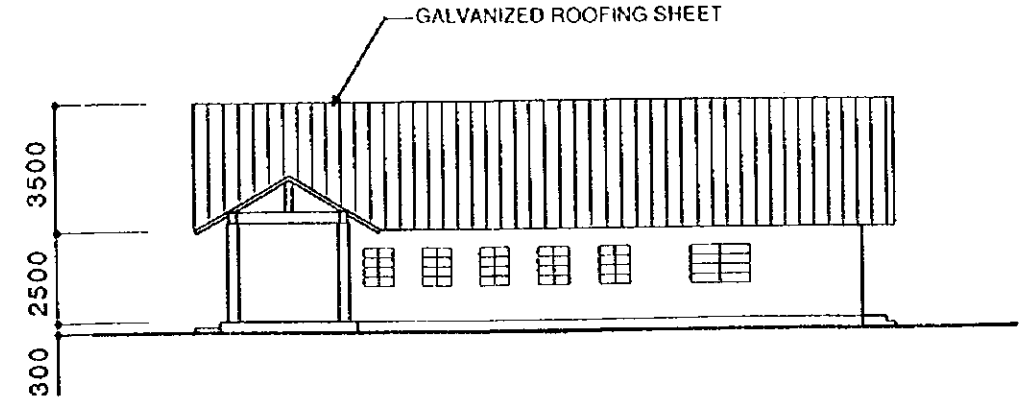
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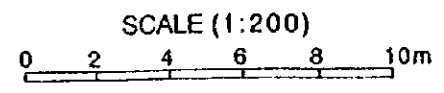
SECTION



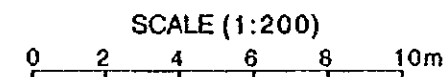
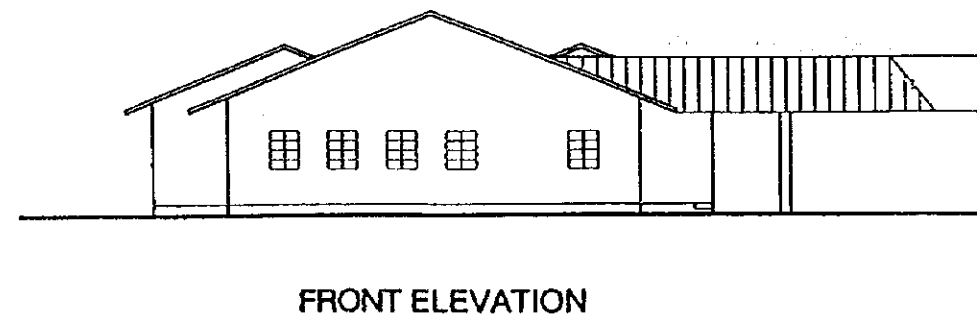
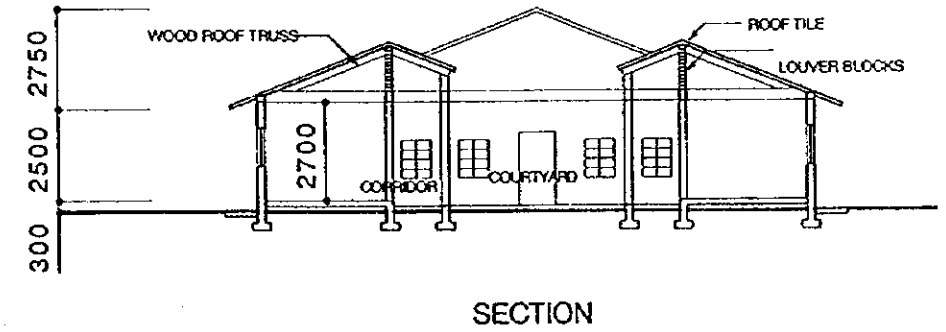
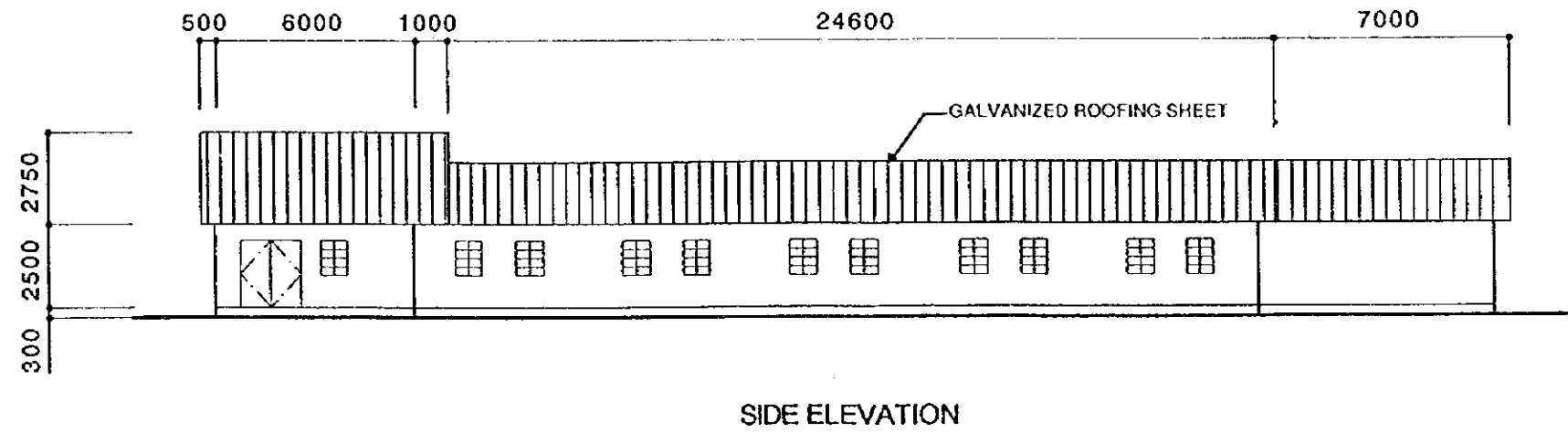
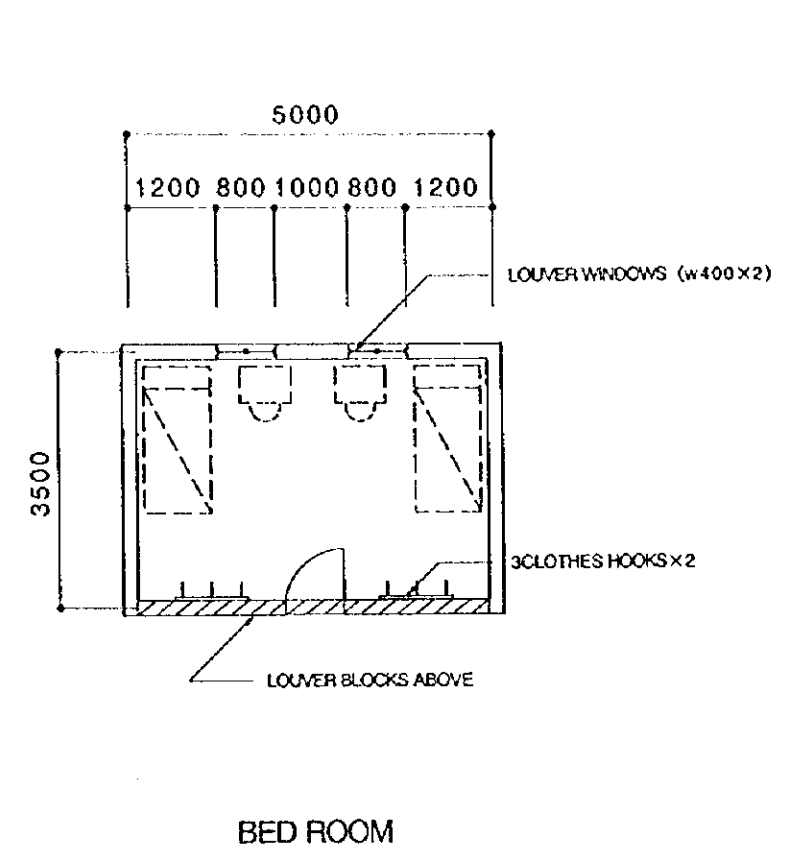
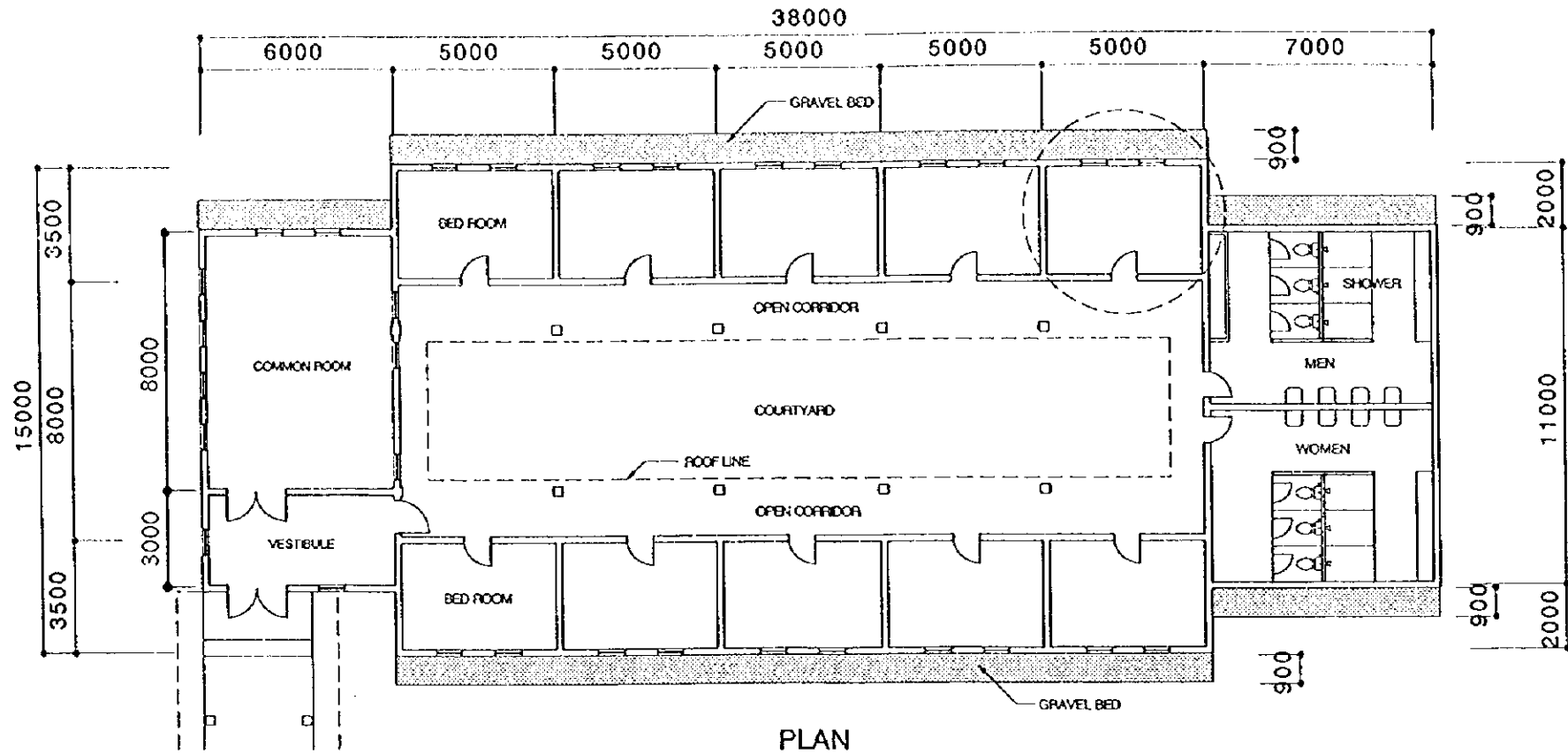
FRONT ELEVATION



SIDE ELEVATION

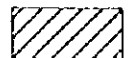






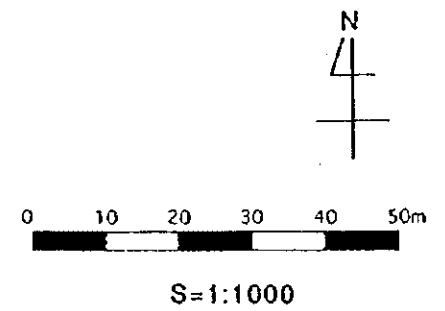
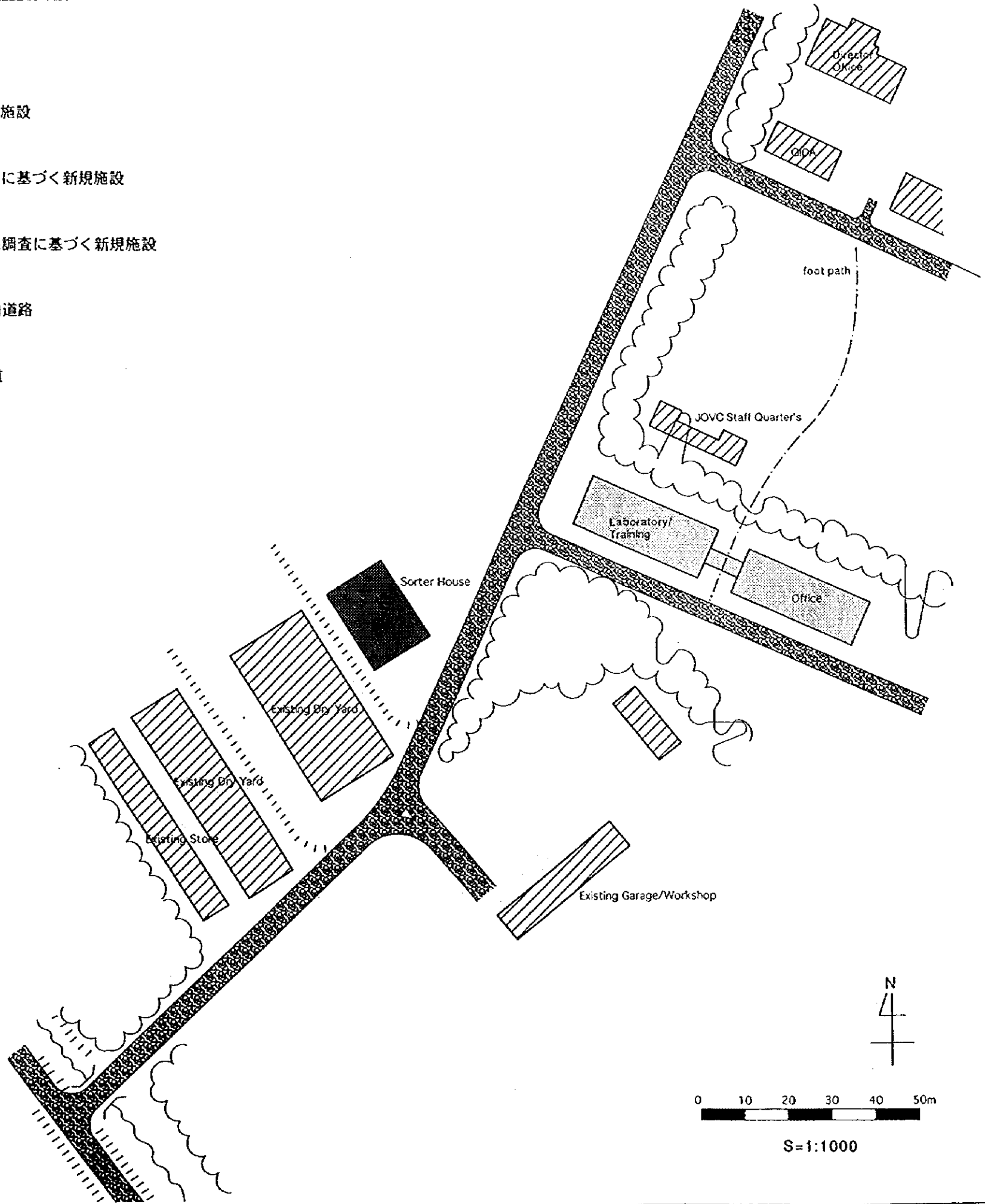
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|---------------------------------------------------|----------|-------------|-------|
| THE REPUBLIC OF GHANA                             |          |             |       |
| THE PROJECT FOR<br>REHABILITATION OF IRRIGATION   |          |             |       |
| TITLE OF DRAWING<br>BUILDING WORK<br>Dinning Room |          |             |       |
| DATE                                              | MAR 1998 | DRAWING NO. | BW-03 |
| NIPPON KOEI CO. LTD. / TAIYO CONSULTANTS CO. LTD. |          |             |       |



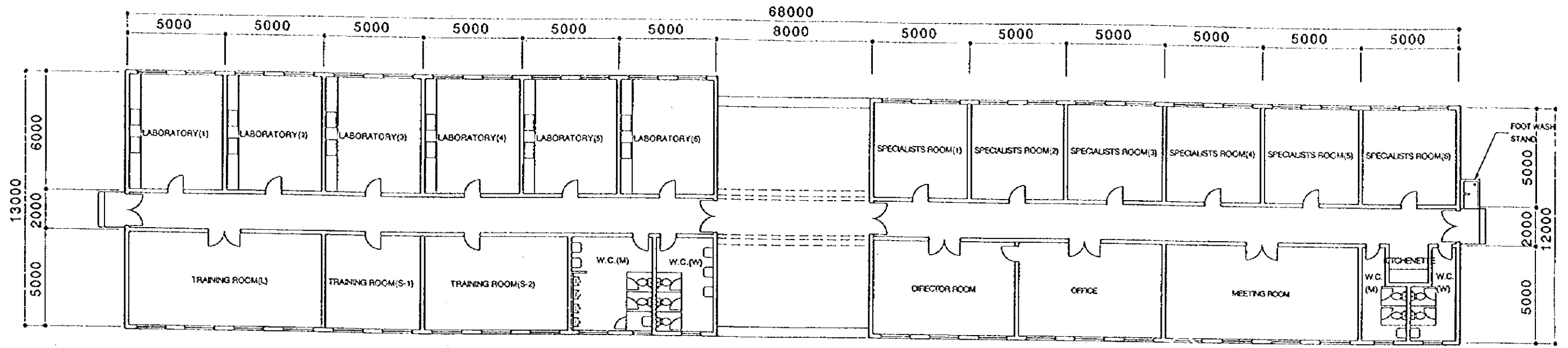
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| THE REPUBLIC OF GHANA                                                 |          |             |       |
| THE PROJECT FOR<br>REHABILITATION OF IRRIGATION                       |          |             |       |
| TITLE OF DRAWING<br>BUILDING WORK<br>Dormitory for trainees from GIDA |          |             |       |
| DATE                                                                  | MAR 1998 | DRAWING NO. | BW-04 |
| NIPPON KOEI CO., LTD. / TAIYO CONSULTANTS CO., LTD.                   |          |             |       |

Legend : 凡例

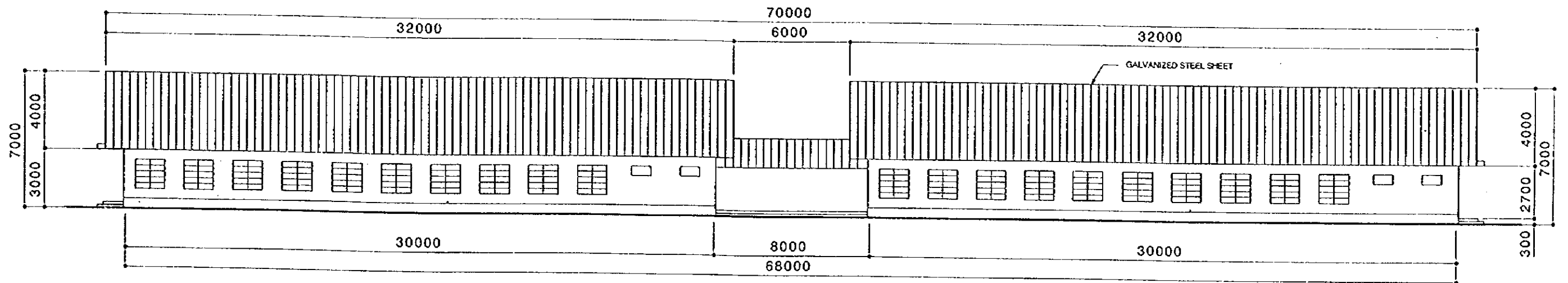
-  : 既存施設
-  : 要請に基づく新規施設
-  : 現地調査に基づく新規施設
-  : 場内道路
-  : 公道



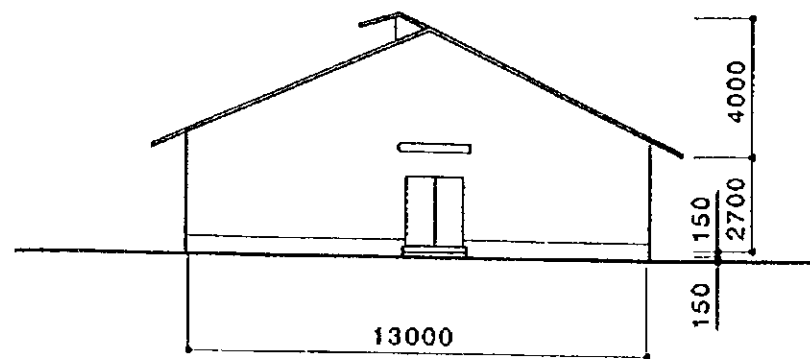
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| THE REPUBLIC OF GHANA                                                             |          |             |       |
| THE PROJECT FOR<br>REHABILITATION OF IRRIGATION                                   |          |             |       |
| TITLE OF DRAWING<br>BUILDING WORK<br>Site Plan of Building Facilities at Ashaiman |          |             |       |
| DATE                                                                              | MAR 1998 | DRAWING NO. | BW-05 |
| NIPPON KOEI CO., LTD. / TAIYO CONSULTANTS CO., LTD.                               |          |             |       |



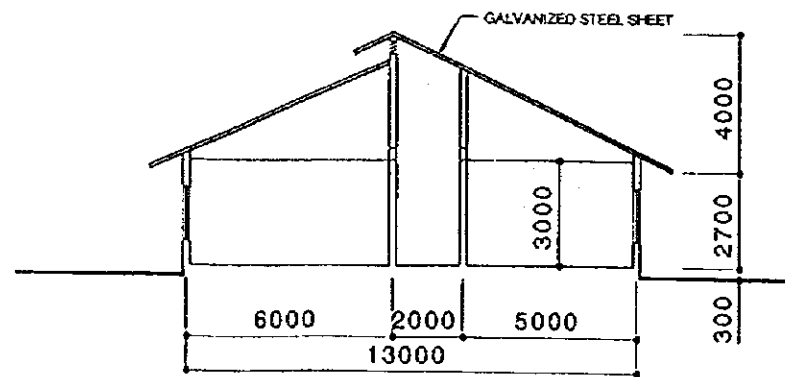
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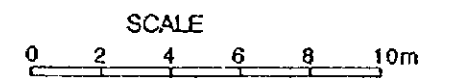
ELEVATION



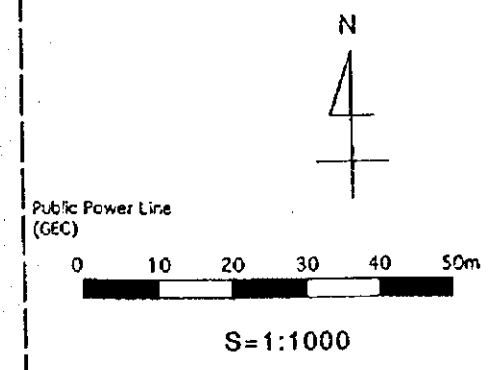
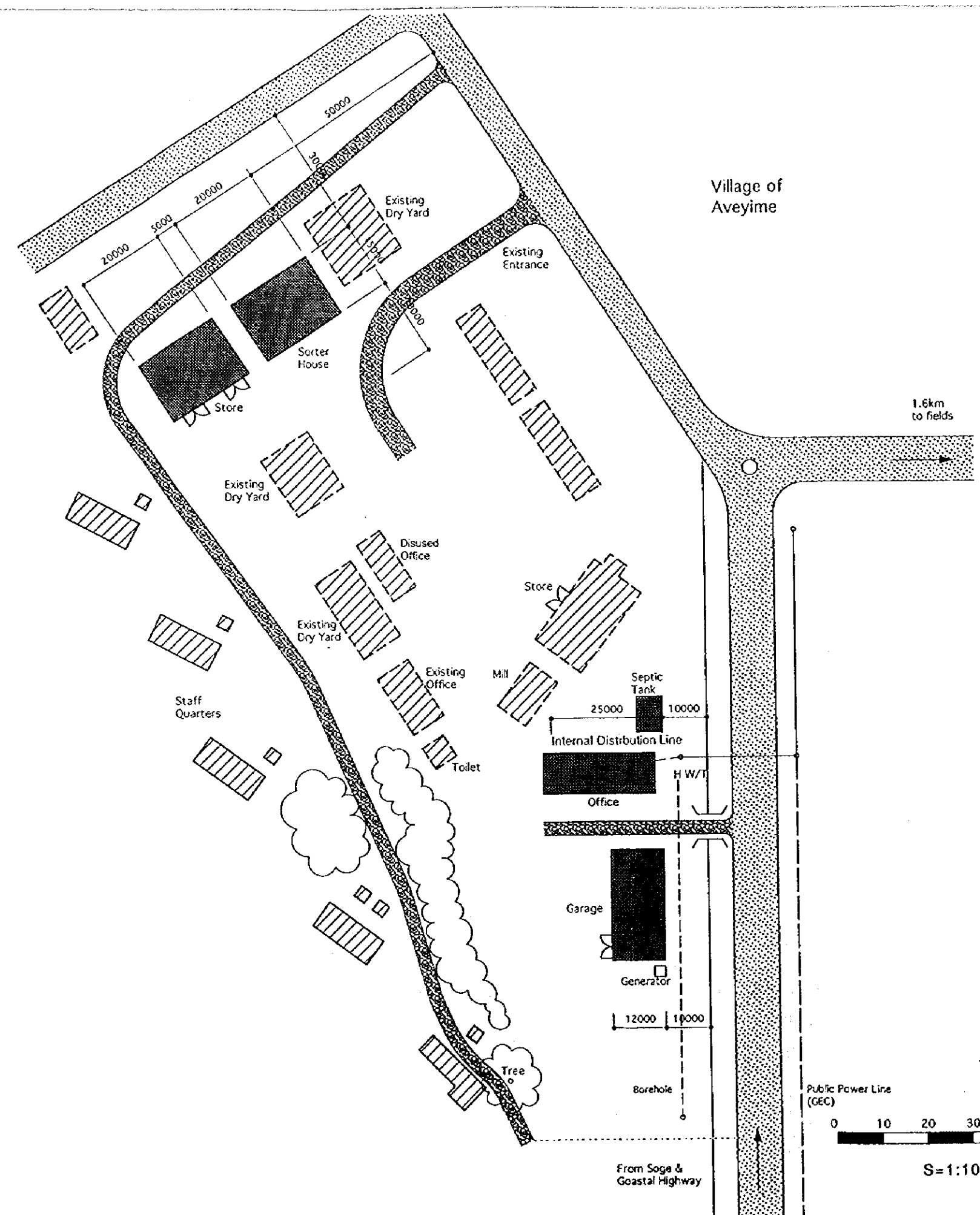
SITE ELEVATION



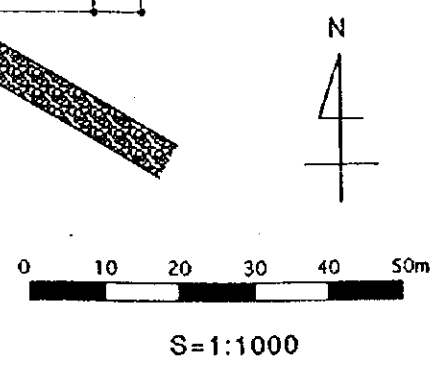
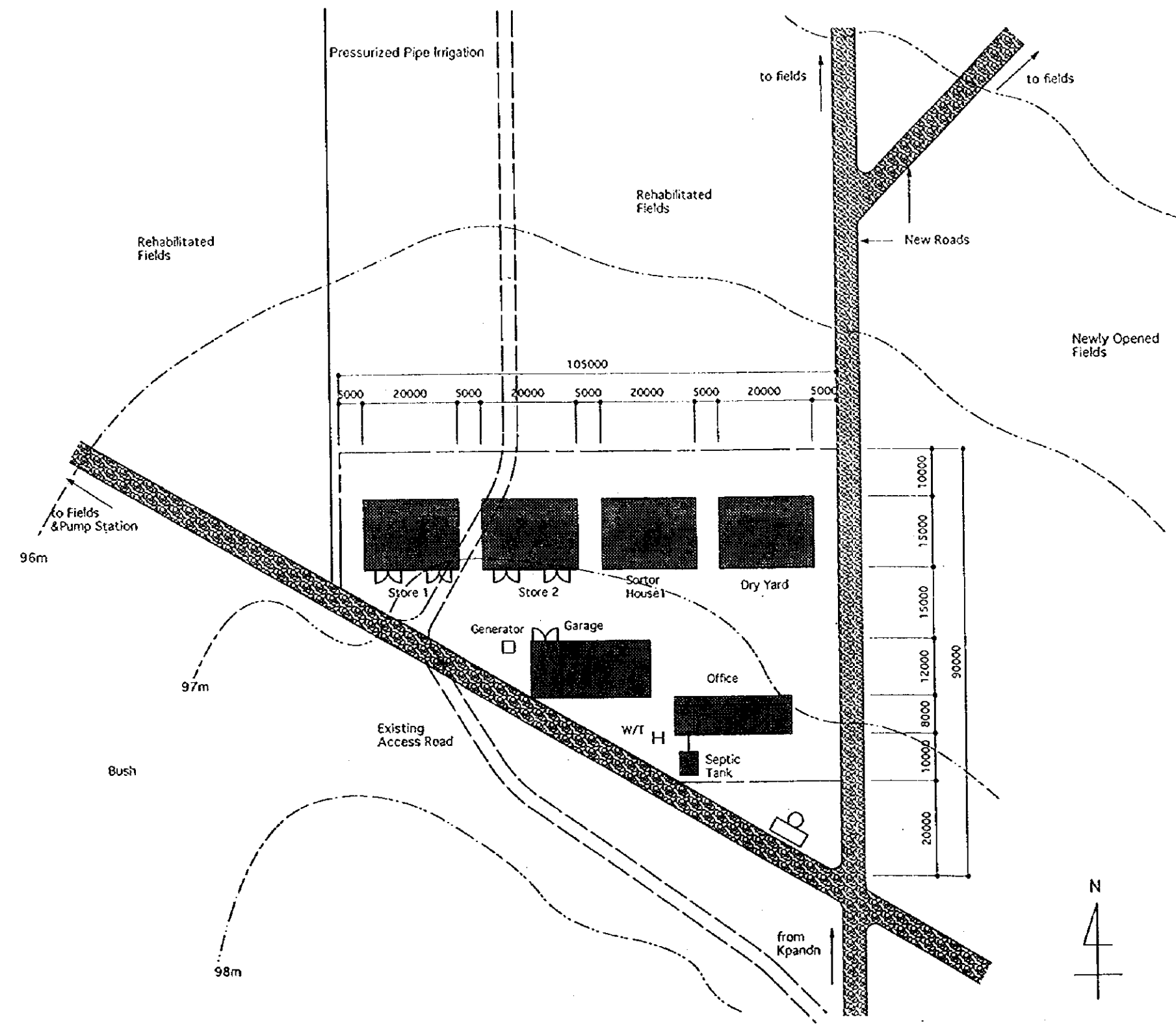
SECTION



|                                                                  |          |             |       |
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| THE REPUBLIC OF GHANA                                            |          |             |       |
| THE PROJECT FOR<br>REHABILITATION OF IRRIGATION                  |          |             |       |
| TITLE OF DRAWING<br>BUILDING WORK<br>Lecture Hall and Laboratory |          |             |       |
| DATE                                                             | MAR 1998 | DRAWING NO. | BW-06 |
| NIPPON KOEI CO., LTD. / TAIYO CONSULTANTS CO., LTD.              |          |             |       |

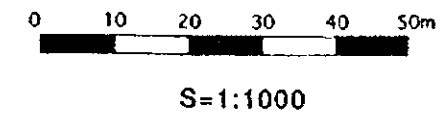
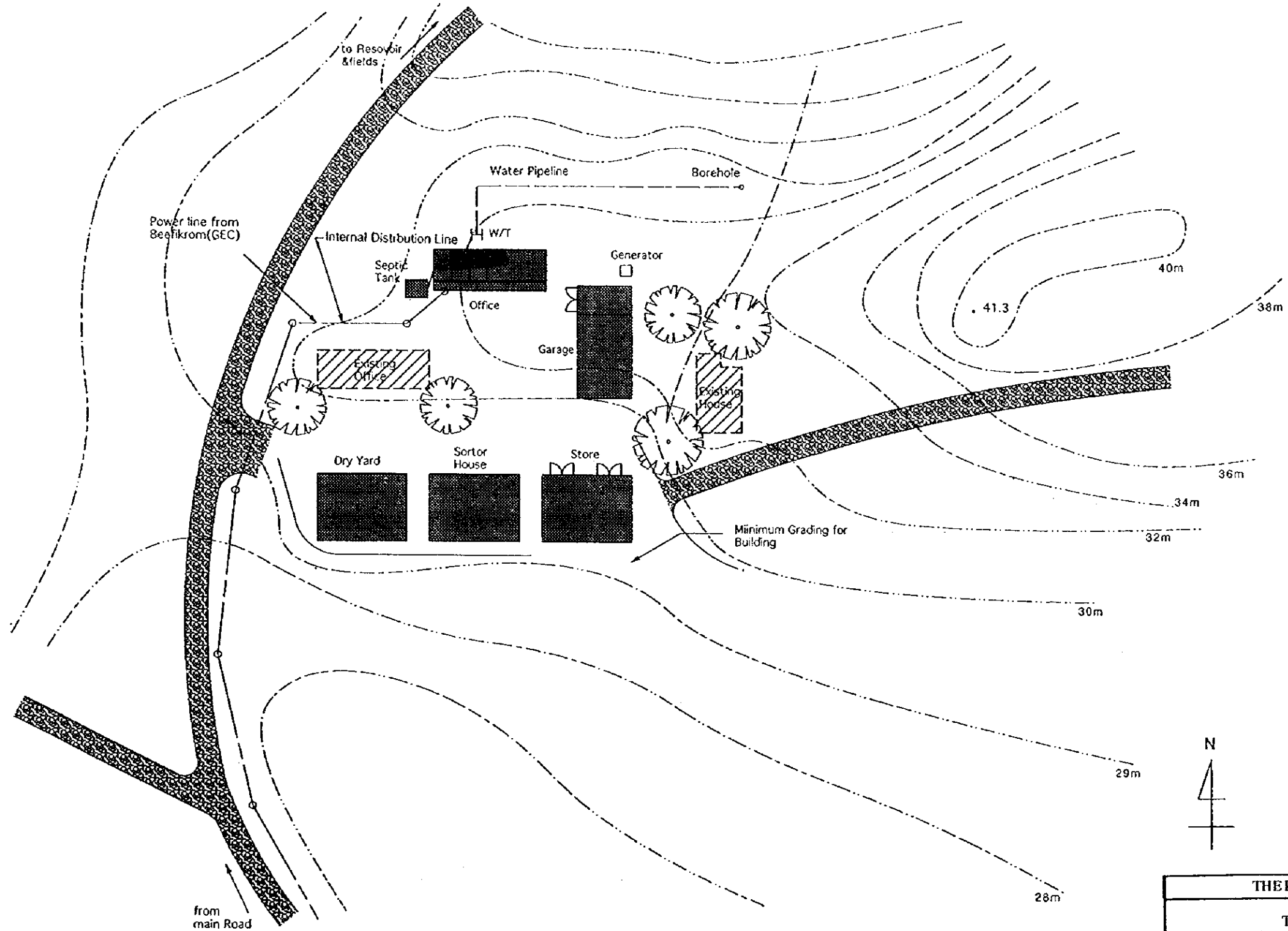


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| THE REPUBLIC OF GHANA                                                            |          |             |       |
| THE PROJECT FOR<br>REHABILITATION OF IRRIGATION                                  |          |             |       |
| TITLE OF DRAWING<br>BUILDING WORK<br>Site Plan of Building Facilities at Aveyime |          |             |       |
| DATE                                                                             | MAR 1998 | DRAWING NO. | BW-07 |
| NIPPON KOEI CO., LTD. / TAIYO CONSULTANTS CO., LTD.                              |          |             |       |

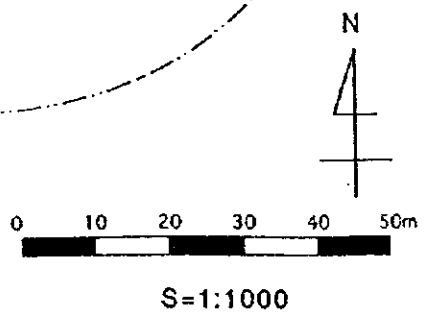
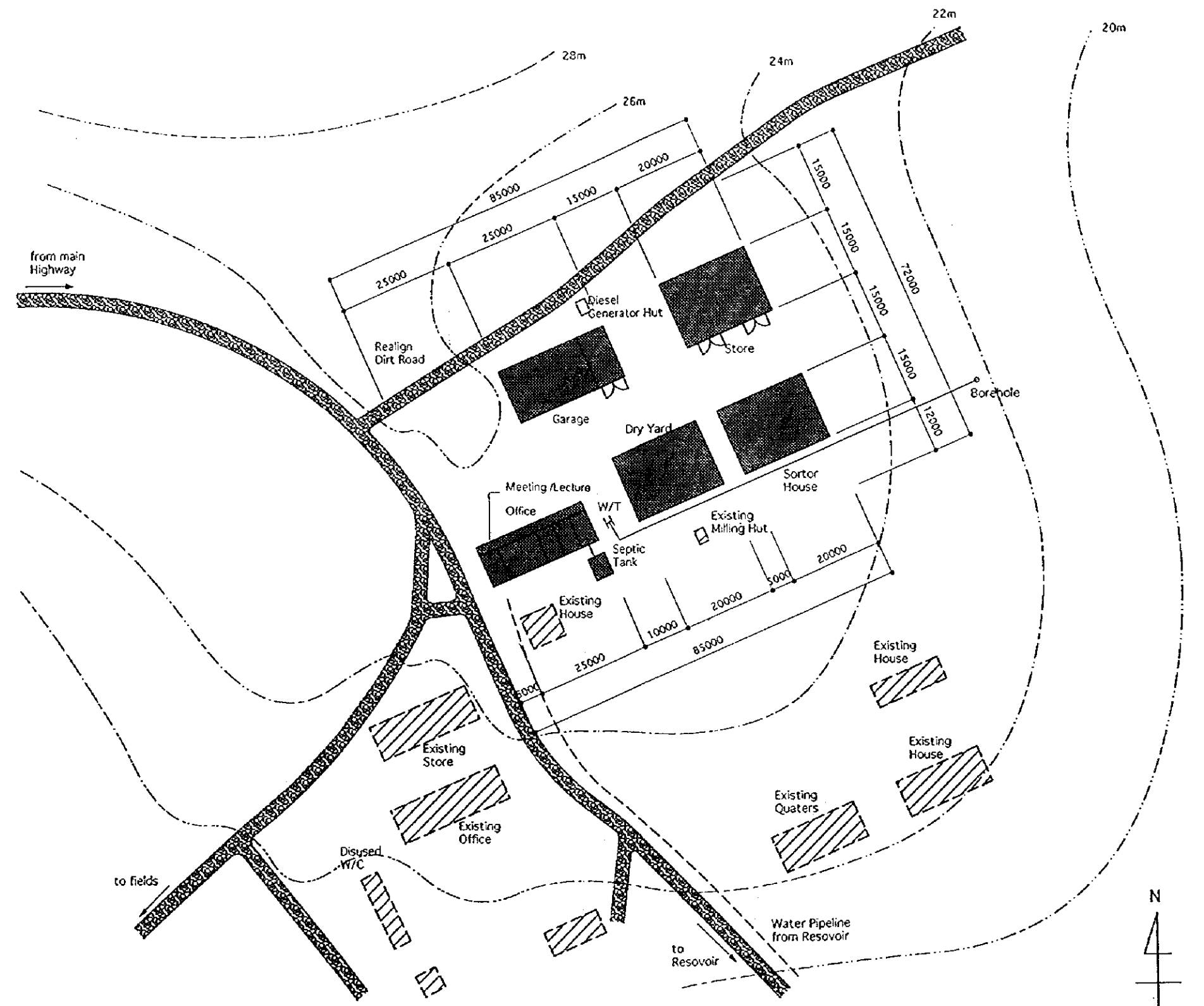


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| THE REPUBLIC OF GHANA                                                                  |          |             |       |
| THE PROJECT FOR<br>REHABILITATION OF IRRIGATION                                        |          |             |       |
| TITLE OF DRAWING<br>BUILDING WORK<br>Site Plan of Building Facilities at Kpando-Torkor |          |             |       |
| DATE                                                                                   | MAR 1998 | DRAWING NO. | BW-08 |
| NIPPON KOEI CO., LTD. / TAIYO CONSULTANTS CO., LTD.                                    |          |             |       |

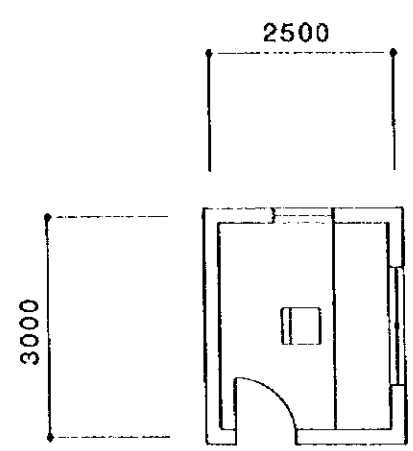




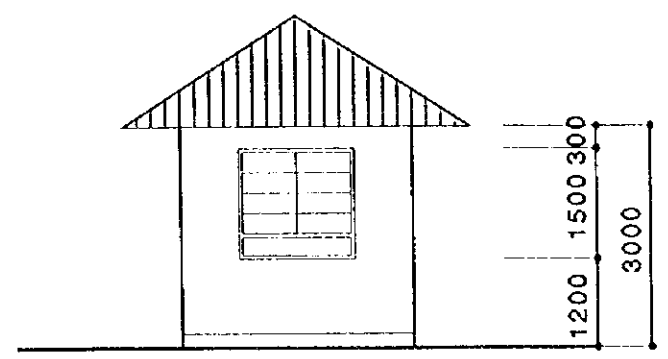
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| THE REPUBLIC OF GHANA                                                              |          |             |       |
| THE PROJECT FOR<br>REHABILITATION OF IRRIGATION                                    |          |             |       |
| TITLE OF DRAWING<br>BUILDING WORK<br>Site Plan of Building Facilities at Mankessim |          |             |       |
| DATE                                                                               | MAR 1998 | DRAWING NO. | BW-09 |
| NIPPON KOEI CO., LTD. / TAIYO CONSULTANTS CO., LTD.                                |          |             |       |



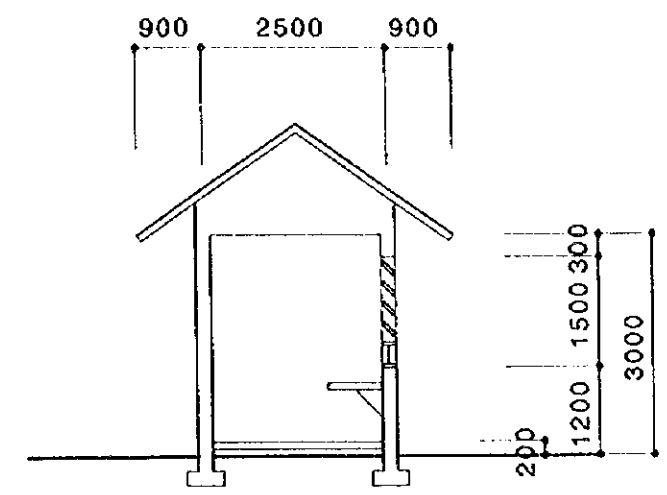
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| THE REPUBLIC OF GHANA                                                             |          |             |       |
| THE PROJECT FOR<br>REHABILITATION OF IRRIGATION                                   |          |             |       |
| TITLE OF DRAWING<br>BUILDING WORK<br>Site Plan of Building Facilities at Okyereko |          |             |       |
| DATE                                                                              | MAR 1998 | DRAWING NO. | BW-10 |
| NIPPON KOEI CO., LTD. / TAIYO CONSULTANTS CO., LTD.                               |          |             |       |



PLAN

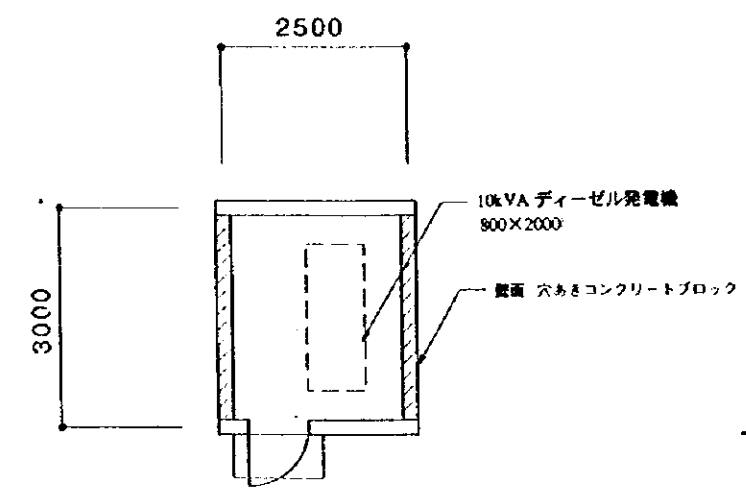


ELEVATION

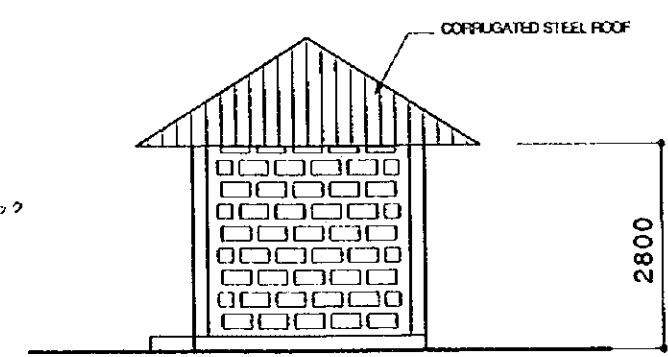


SECTION

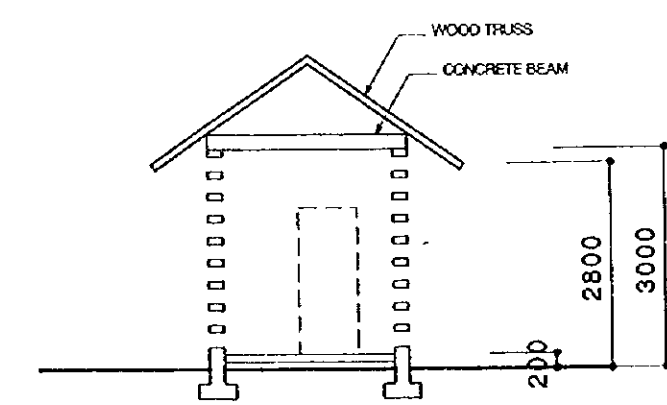
GUARD HOUSE



PLAN

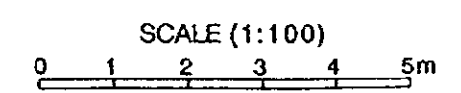


ELEVATION



SECTION

GENERATOR HUT



|                                                                    |          |             |       |
|--------------------------------------------------------------------|----------|-------------|-------|
| THE REPUBLIC OF GHANA                                              |          |             |       |
| THE PROJECT FOR<br>REHABILITATION OF IRRIGATION                    |          |             |       |
| TITLE OF DRAWING<br>BUILDING WORK<br>Guard House and Generator Hut |          |             |       |
| DATE                                                               | MAR 1998 | DRAWING NO. | BW-11 |
| NIPPON KOEI CO., LTD. / TAIYO CONSULTANTS CO., LTD.                |          |             |       |









JICA