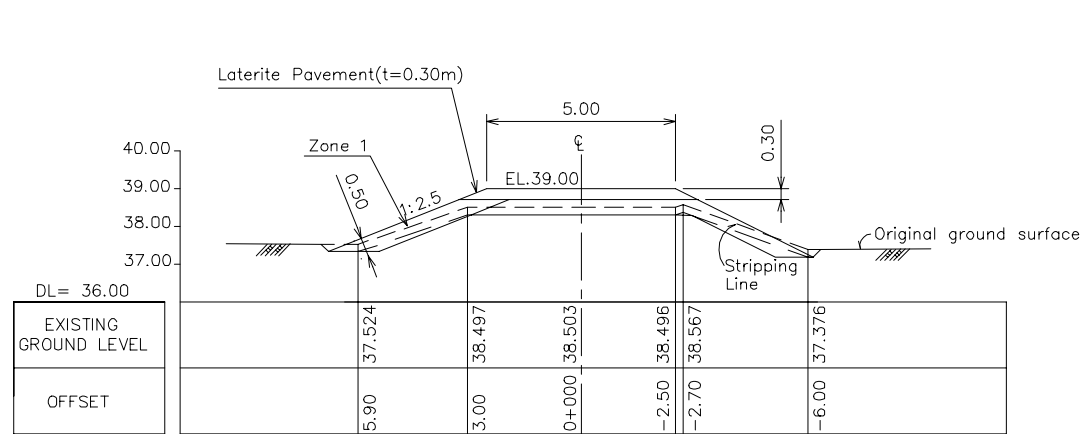


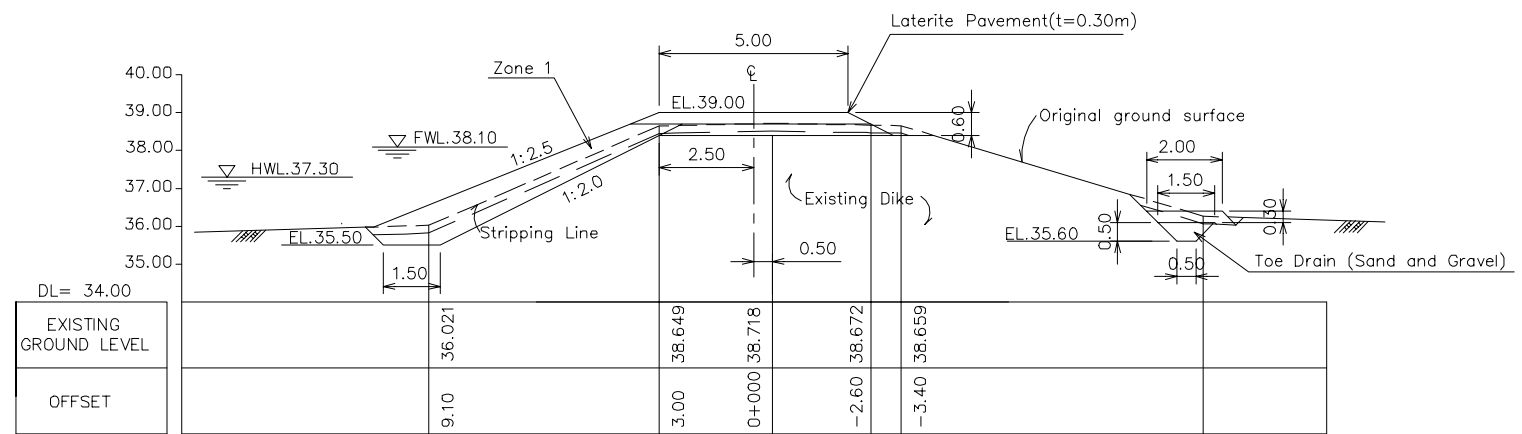
V=1/100 H=1/10,000



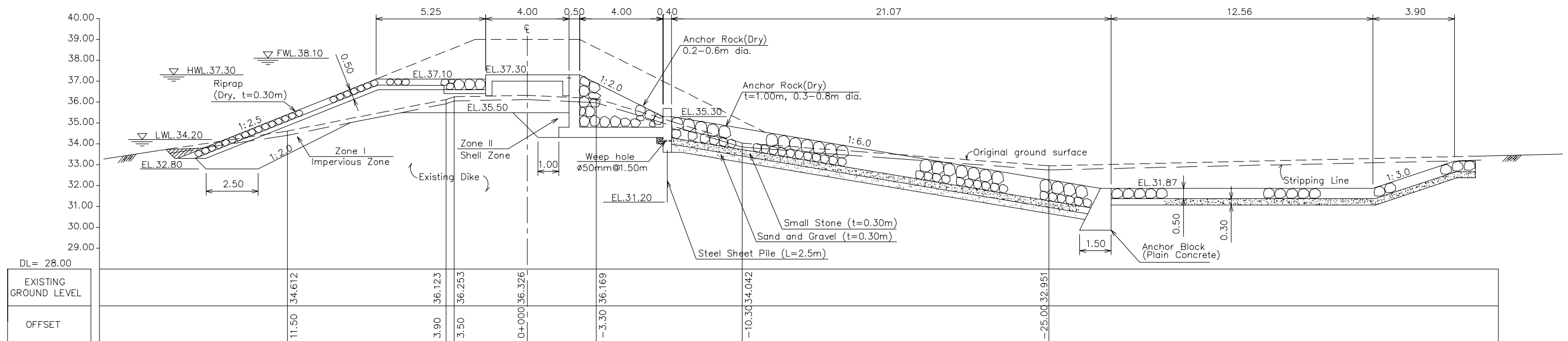
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| Japan International Cooperation Agency (JICA) | THE STUDY ON THE REHABILITATION AND RECONSTRUCTION OF AGRICULTURAL PRODUCTION SYSTEM IN THE SLAKOU RIVER BASIN | Title of Drawing | DATE Jan. 2002 |
| | THE KINGDOM OF CAMBODIA | Upper Slakou River Irrigation Reconstruction Plan Kpob Trobek Reservoir; Profile of Dike(2/2) | DRAWING NO. 18 of 62 |



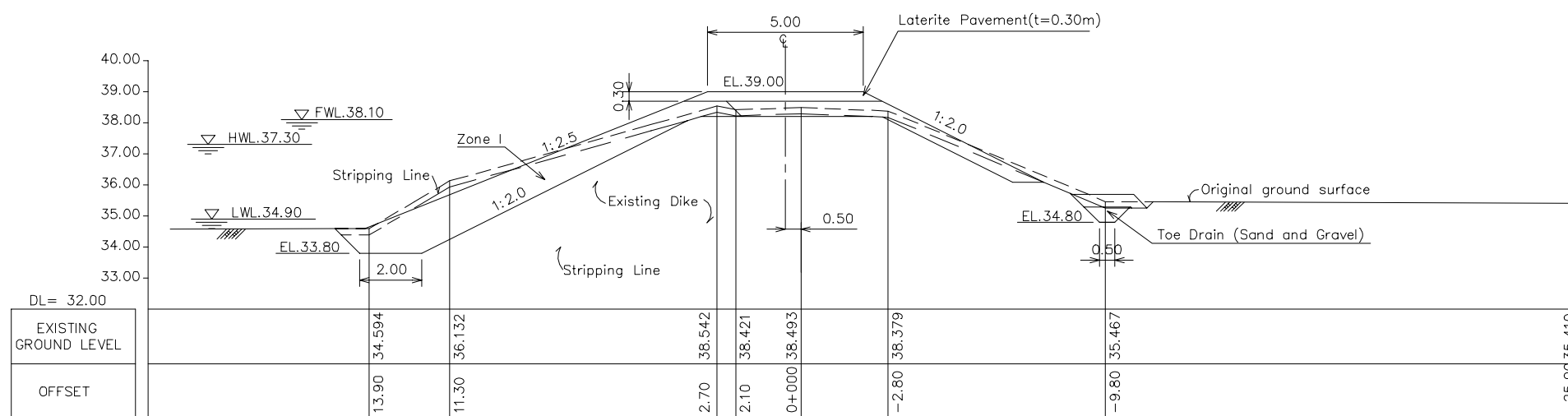
STA. 0+399



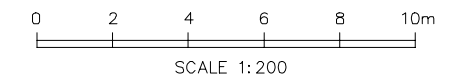
STA. 1+002



STA. 1+501

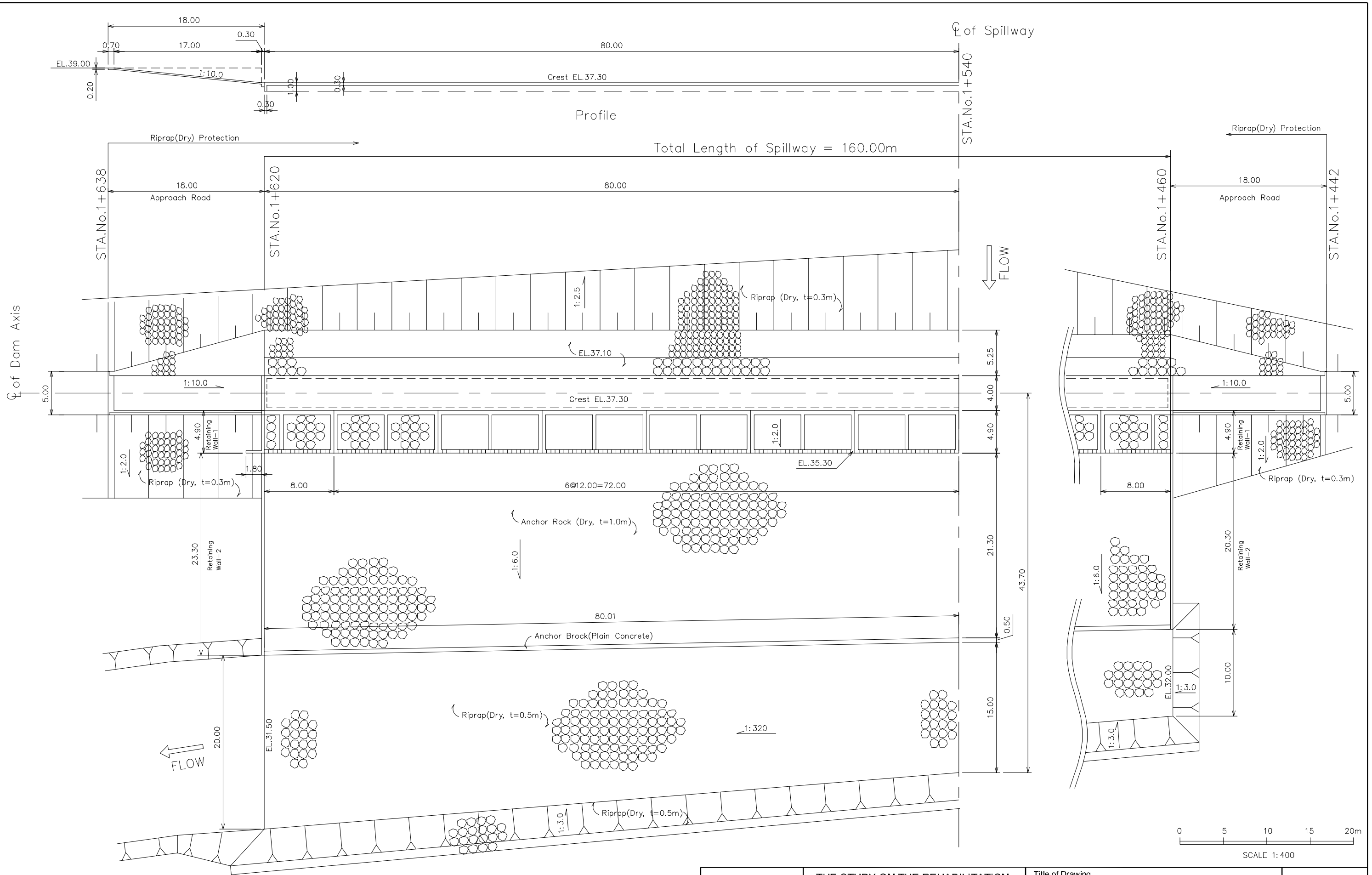


STA. 2+004

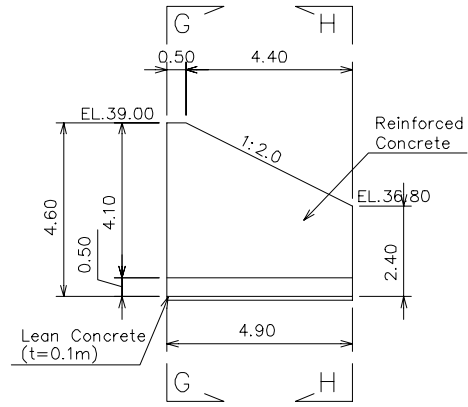


Note ; Zone I (Impervious Zone); Mixed Soil Material of Laterite, Clayey Gravel and Excavated Soil at Reservoir Area
Zone II (Shell Zone); Excavated Soil at Reservoir Area (CL, SC, SM)

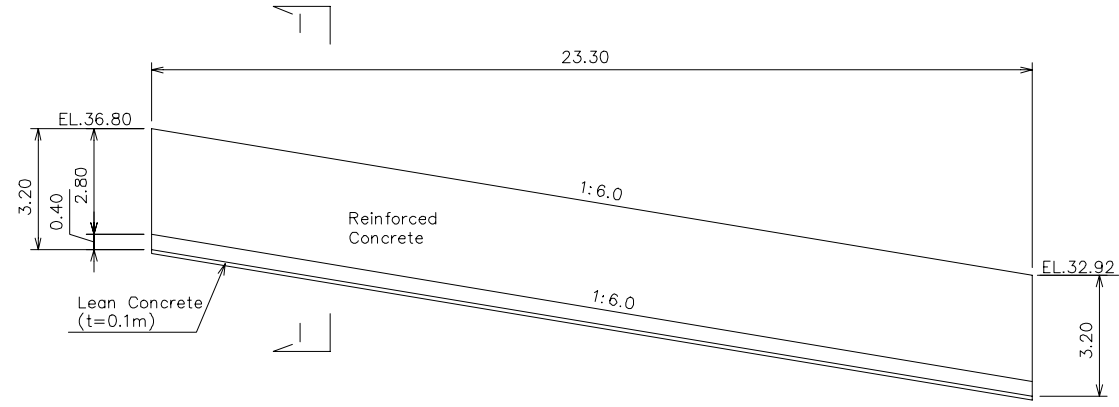
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| Japan International Cooperation Agency (JICA) | THE STUDY ON THE REHABILITATION AND RECONSTRUCTION OF AGRICULTURAL PRODUCTION SYSTEM IN THE SLAKOU RIVER BASIN | Title of Drawing | DATE Jan. 2002 |
| | THE KINGDOM OF CAMBODIA | Upper Slakou River Irrigation Reconstruction Plan Kpob Trobek Reservoir; Typical Cross Sections of Dike | DRAWING NO. 19 of 62 |



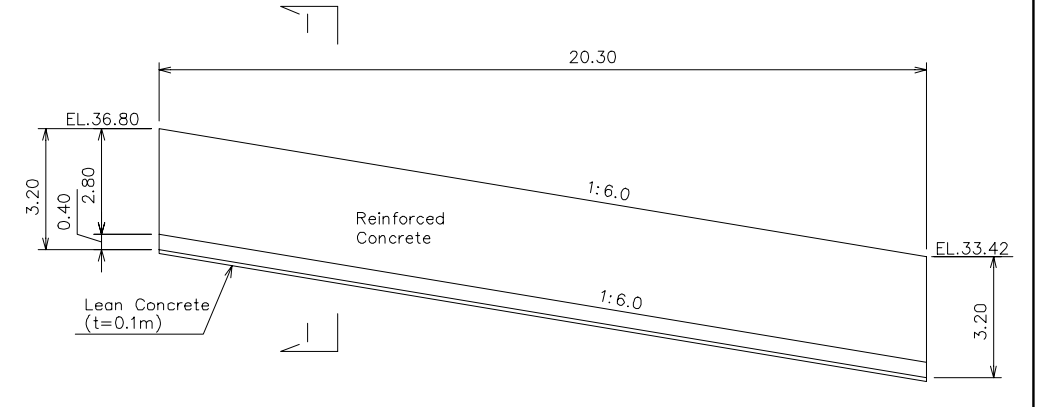
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| Japan International Cooperation Agency (JICA) | THE STUDY ON THE REHABILITATION AND RECONSTRUCTION OF AGRICULTURAL PRODUCTION SYSTEM IN THE SLAKOU RIVER BASIN | Title of Drawing | DATE Jan. 2002 |
| | THE KINGDOM OF CAMBODIA | Upper Slakou River Irrigation Reconstruction Plan Kpob Trobek Reservoir; Plan of Spillway | DRAWING NO. 20 of 62 |



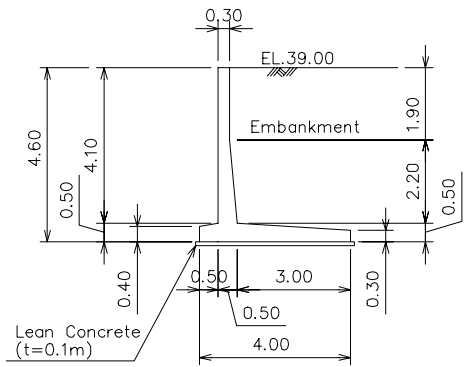
RETAINING WALL-1



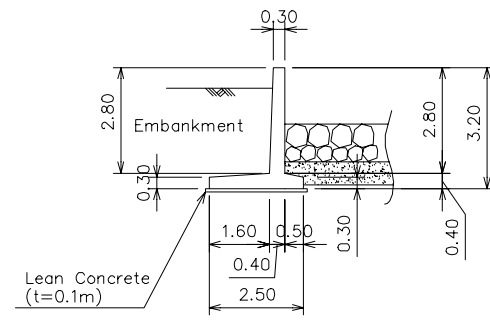
RETAINING WALL-2(Right Side)



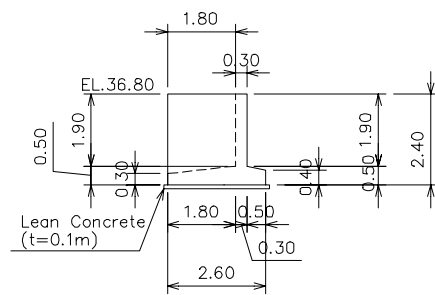
RETAINING WALL-2(Left Side)



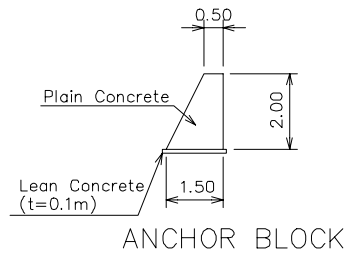
SECTION G-G



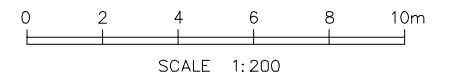
SECTION I-I



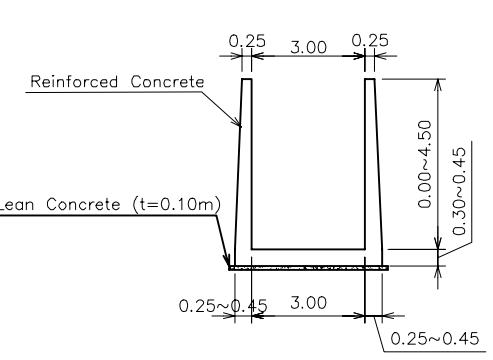
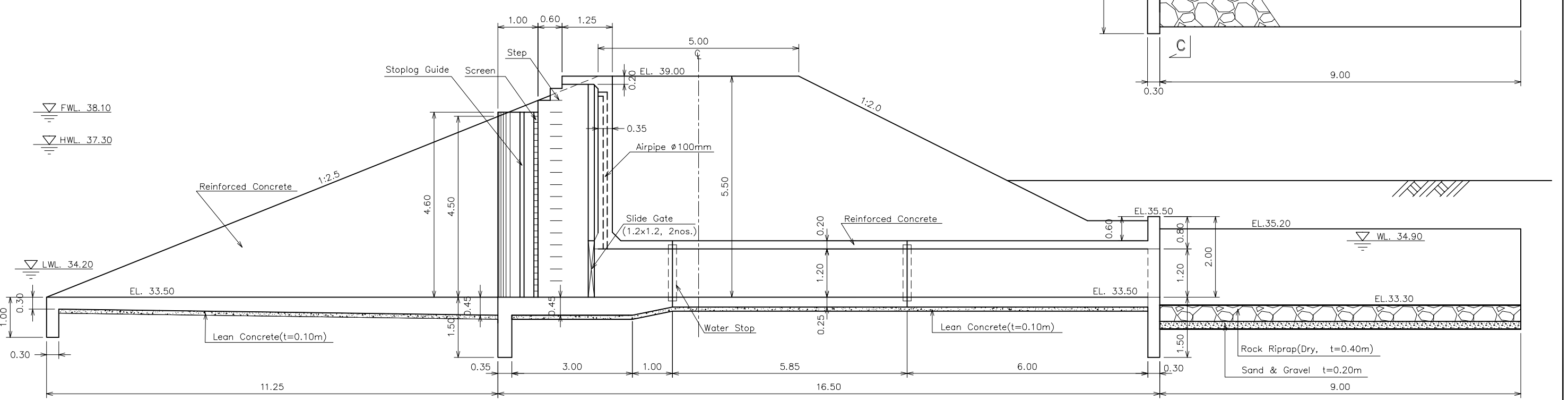
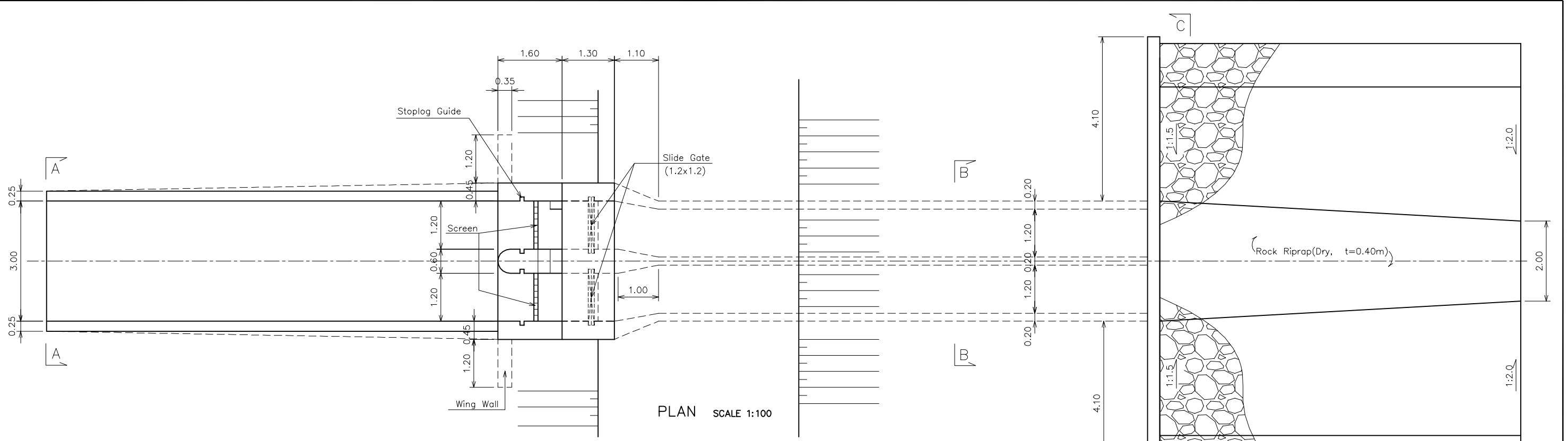
SECTION H-H



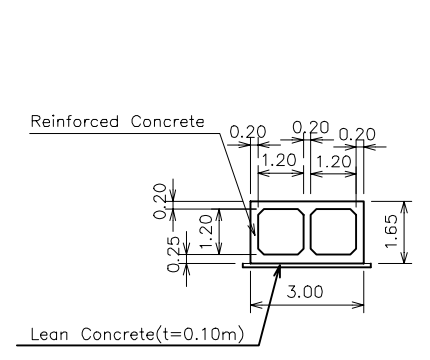
ANCHOR BLOCK



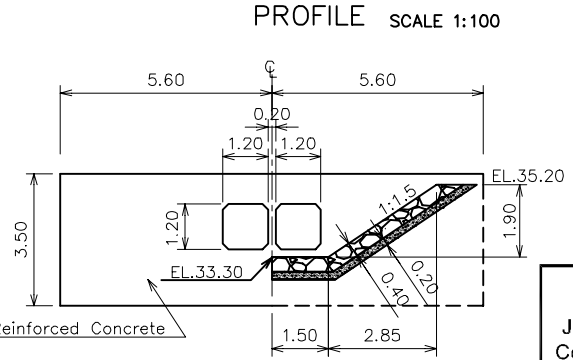
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|---|--|---|-------------------------|
| Japan International Cooperation Agency (JICA) | THE STUDY ON THE REHABILITATION AND RECONSTRUCTION OF AGRICULTURAL PRODUCTION SYSTEM IN THE SLAKOU RIVER BASIN | Title of Drawing | DATE Jan. 2002 |
| | THE KINGDOM OF CAMBODIA | Upper Slakou River Irrigation Reconstruction Plan Kpob Trobek Reservoir; Profile and Structure of Spillway(2/2) | DRAWING NO. 22 of 62 |



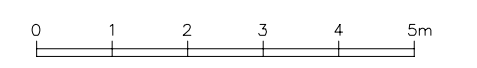
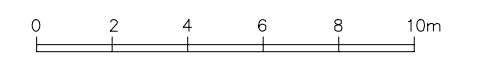
SECTION A-A SCALE 1:200



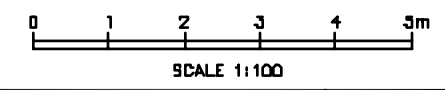
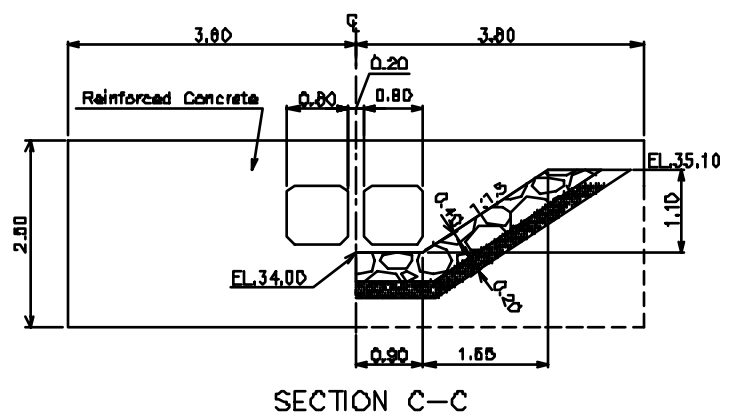
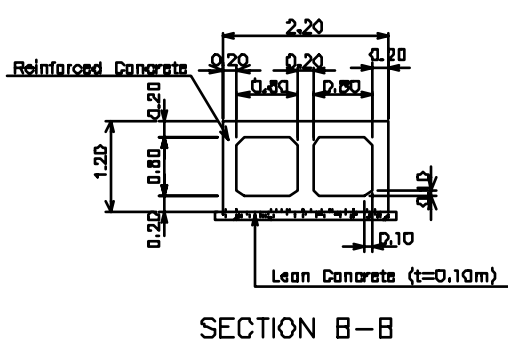
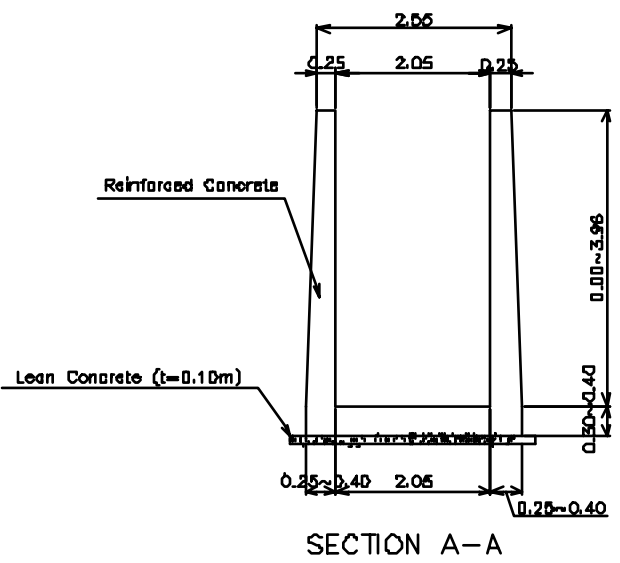
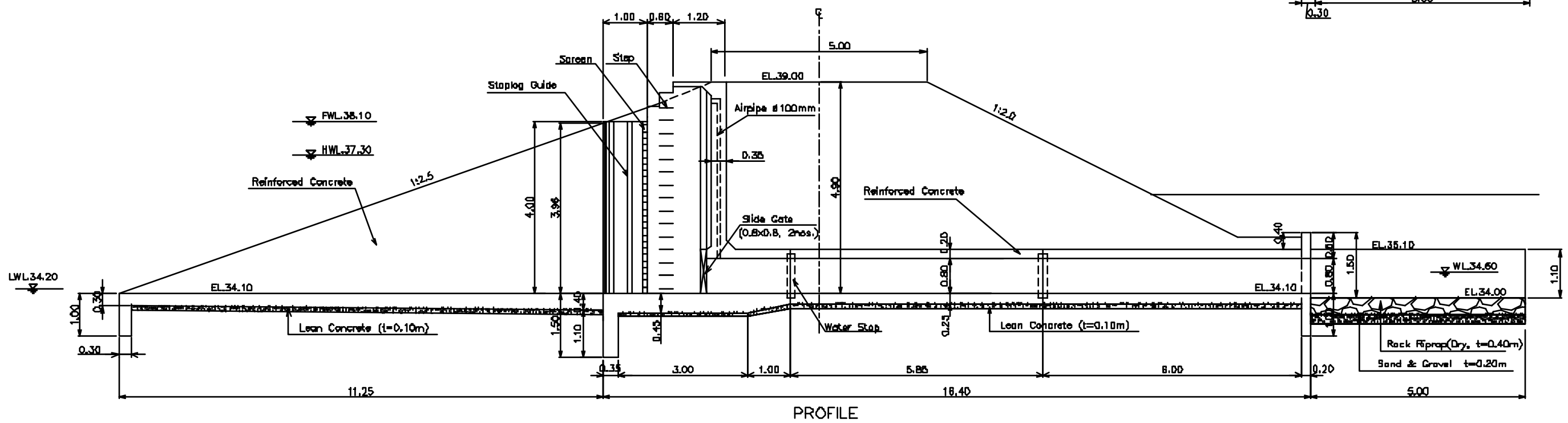
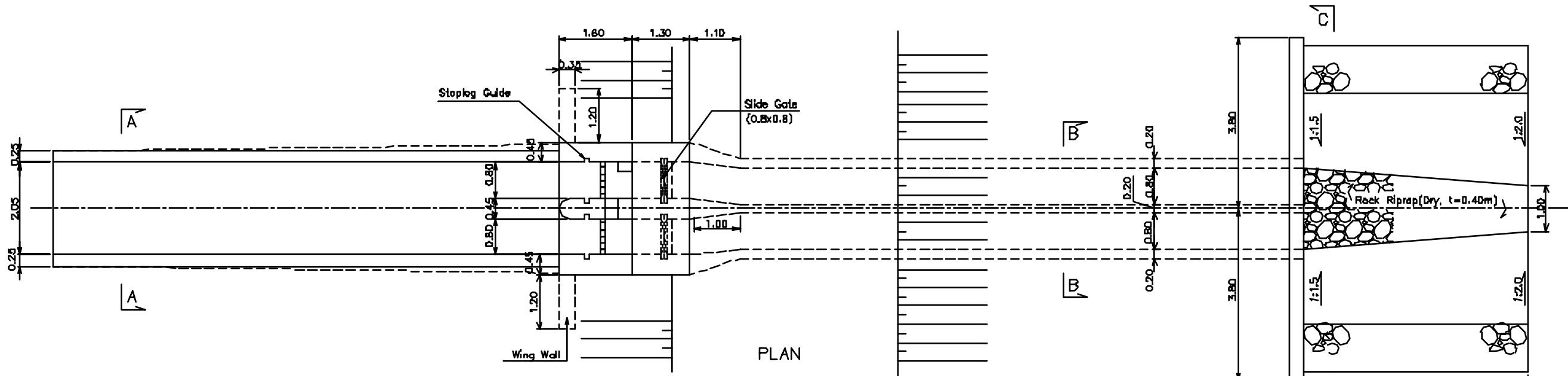
SECTION B-B SCALE 1:200



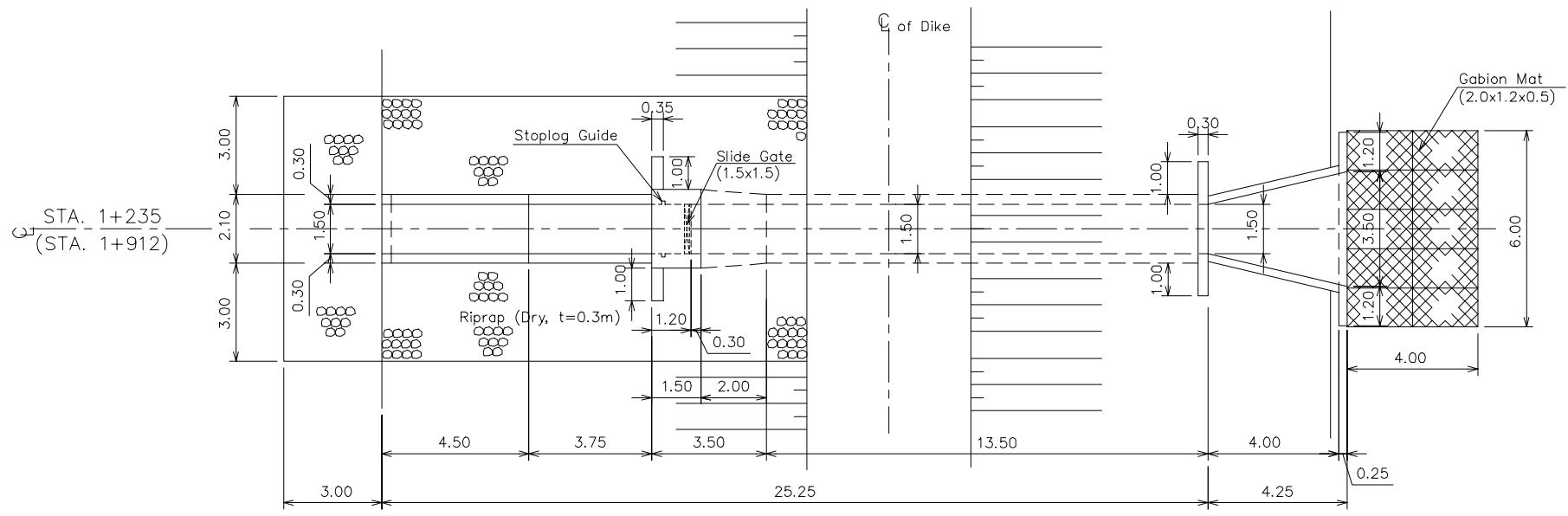
SECTION C-C SCALE 1:200



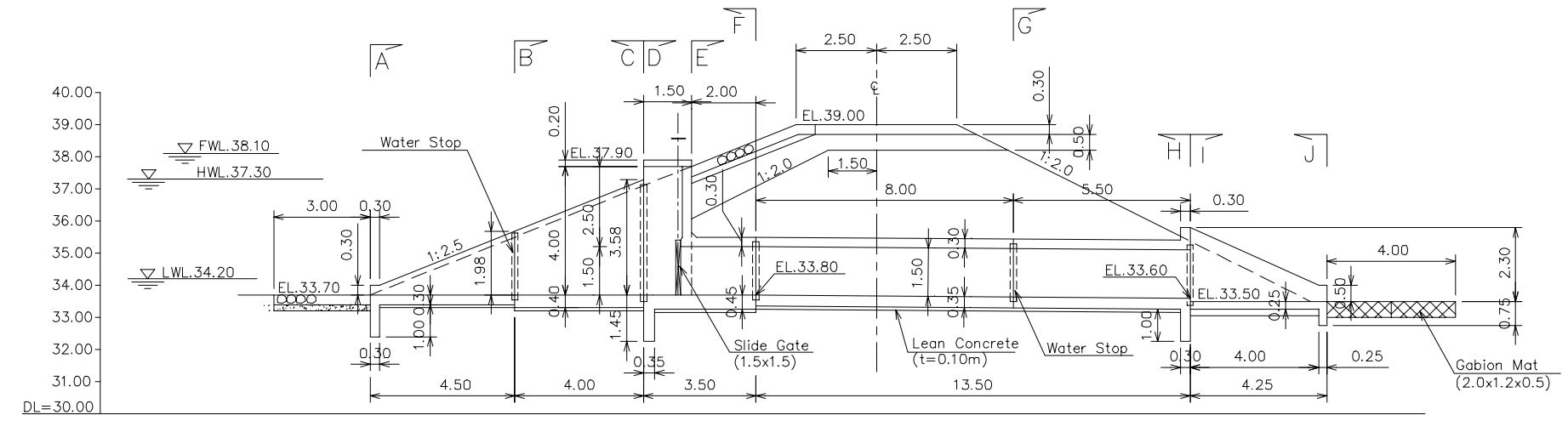
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|---|--|--|-------------------------|
| Japan International Cooperation Agency (JICA) | THE STUDY ON THE REHABILITATION AND RECONSTRUCTION OF AGRICULTURAL PRODUCTION SYSTEM IN THE SLAKOU RIVER BASIN | Title of Drawing | DATE Jan. 2002 |
| | THE KINGDOM OF CAMBODIA | Upper Slakou River Irrigation Reconstruction Plan Kpob Trobek Reservoir; Intake Structure for Canal 33 | DRAWING NO. 23 of 62 |



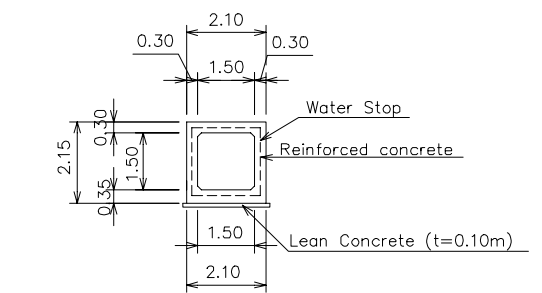
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|---|--|---|-------------------------|
| Japan International Cooperation Agency (JICA) | THE STUDY ON THE REHABILITATION AND RECONSTRUCTION OF AGRICULTURAL PRODUCTION SYSTEM IN THE SLAKOU RIVER BASIN | Title of Drawing Upper Slakou River Irrigation Rehabilitation Plan Kpoh Trabek Reservoir Intake Structure for Canal 24 | DATE Jan. 2002 |
| | THE ENGINEER OF SANDBOK | | DRAWING NO. 24 of 62 |



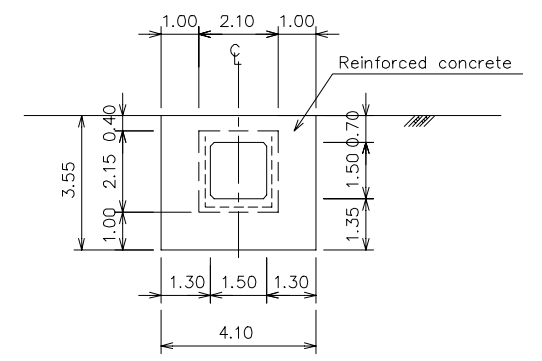
PLAN



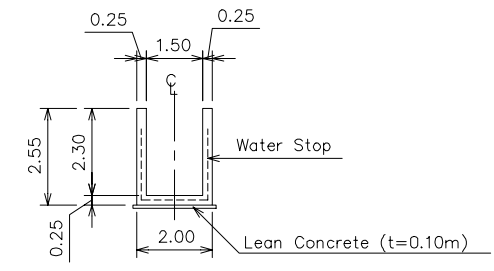
PROFILE



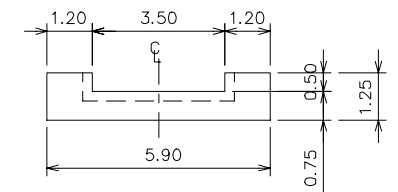
SECTION G-G



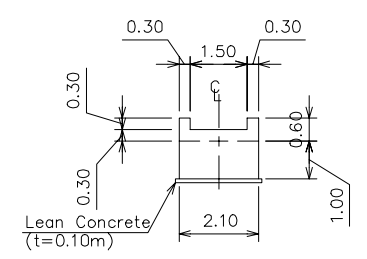
SECTION H-H



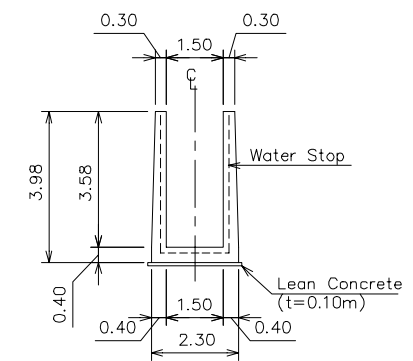
SECTION I-I



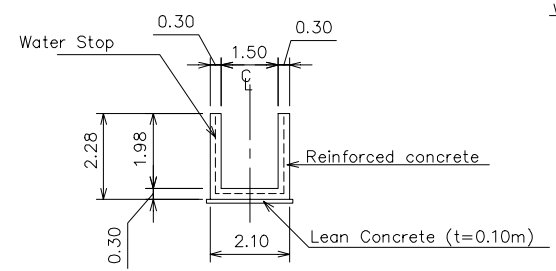
SECTION J-J



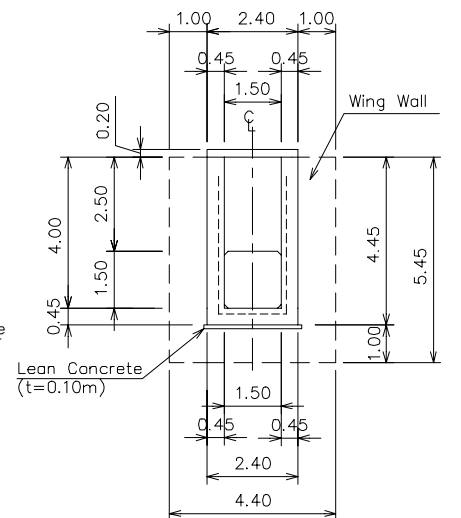
SECTION A-A



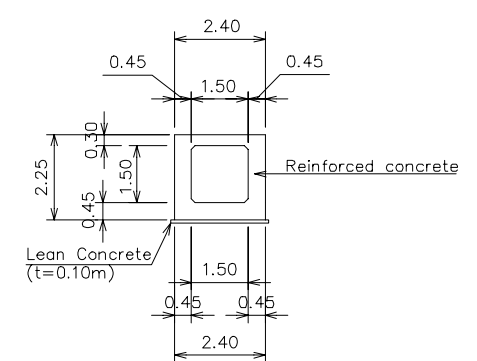
SECTION C-C



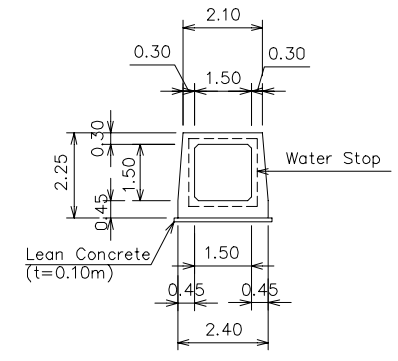
SECTION B-B



SECTION D-D

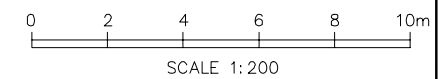


SECTION E-E

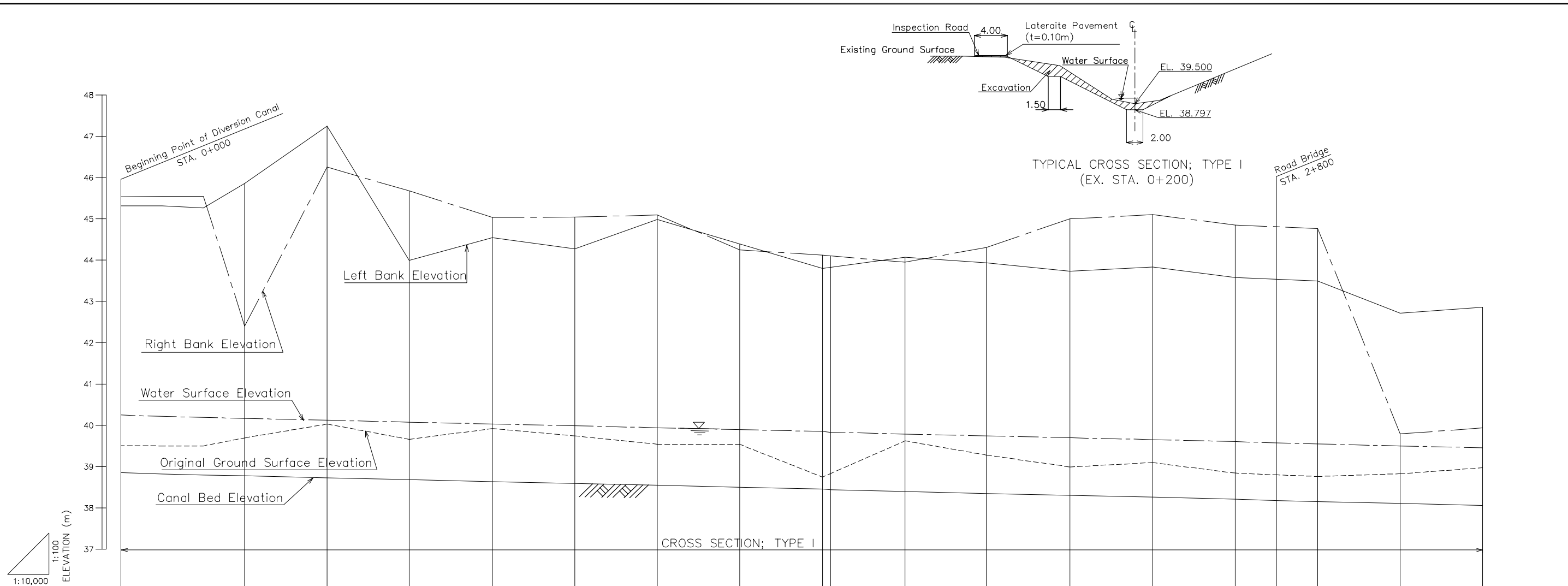


SECTION F-F

Note ; Two maintenance gates will be constructed at STA.1+235 and STA.1+912 for Kpob Trobek Reservoir. The dimensions of both structures will be the same in accordance with the elevation of foundation of each structure.



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| Japan International Cooperation Agency (JICA) | THE STUDY ON THE REHABILITATION AND RECONSTRUCTION OF AGRICULTURAL PRODUCTION SYSTEM IN THE SLAKOU RIVER BASIN | Title of Drawing | DATE Jan. 2002 |
| | THE KINGDOM OF CAMBODIA | Upper Slakou River Irrigation Reconstruction Plan Kpob Trobek Reservoir; Maintenance Gate | DRAWING NO. 25 of 62 |

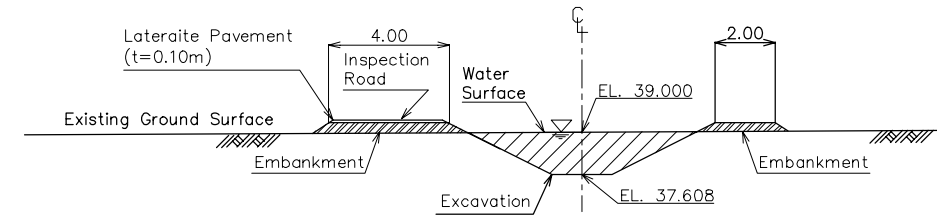


| | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| WATER SURFACE ELEVATION | 40.250 | 40.213 | 40.191 | 40.168 | 40.122 | 40.077 | 40.031 | 39.986 | 39.941 | 39.895 | 39.850 | 39.850 | 39.789 | 39.744 | 39.698 | 39.653 | 39.607 | 39.570 | 39.547 | 39.501 | 39.456 |
| HYDRAULIC CANAL BED ELEVATION | 38.856 | 38.819 | 38.797 | 38.774 | 38.728 | 38.683 | 38.637 | 38.592 | 38.547 | 38.501 | 38.456 | 38.436 | 38.395 | 38.350 | 38.304 | 38.259 | 38.213 | 38.176 | 38.153 | 38.107 | 38.062 |
| ORIGINAL GROUND SURFACE ELEVATION | 39.506 | 39.501 | 39.500 | 39.696 | 40.029 | 39.660 | 39.921 | 39.743 | 39.543 | 39.538 | 38.744 | 38.632 | 39.623 | 39.280 | 38.991 | 39.096 | 38.842 | 38.801 | 38.761 | 38.826 | 38.970 |
| LEFT BANK ELEVATION | 45.315 | 45.311 | 45.266 | 45.860 | 47.249 | 43.992 | 44.560 | 44.274 | 44.984 | 44.390 | 43.803 | 44.066 | 43.932 | 43.728 | 43.833 | 43.579 | 43.498 | 42.717 | 42.861 | 42.861 | |
| RIGHT BANK ELEVATION | 45.595 | 45.541 | 45.545 | 42.400 | 46.255 | 45.676 | 45.032 | 45.041 | 45.083 | 44.250 | 44.118 | 43.947 | 44.310 | 44.998 | 45.103 | 44.849 | 44.768 | 39.782 | 39.936 | 39.936 | |
| ACCUMULATED DISTANCE | 0 | 100 | 200 | 300 | 500 | 699 | 900 | 1,100 | 1,300 | 1,500 | 1,700 | 1,720 | 1,900 | 2,097 | 2,300 | 2,500 | 2,700 | 2,800 | 2,900 | 3,100 | 3,300 |
| DISTANCE | 0 | 100 | 100 | 100 | 200 | 199 | 201 | 200 | 200 | 200 | 200 | 20 | 180 | 197 | 203 | 200 | 200 | 100 | 100 | 200 | 200 |
| STATION NO. | 0+000 | 0+100 | 0+200 | 0+300 | 0+500 | 0+699 | 0+900 | 1+100 | 1+300 | 1+500 | 1+700 | 1+720 | 1+900 | 2+097 | 2+300 | 2+500 | 2+700 | 2+800 | 2+900 | 3+100 | 3+300 |

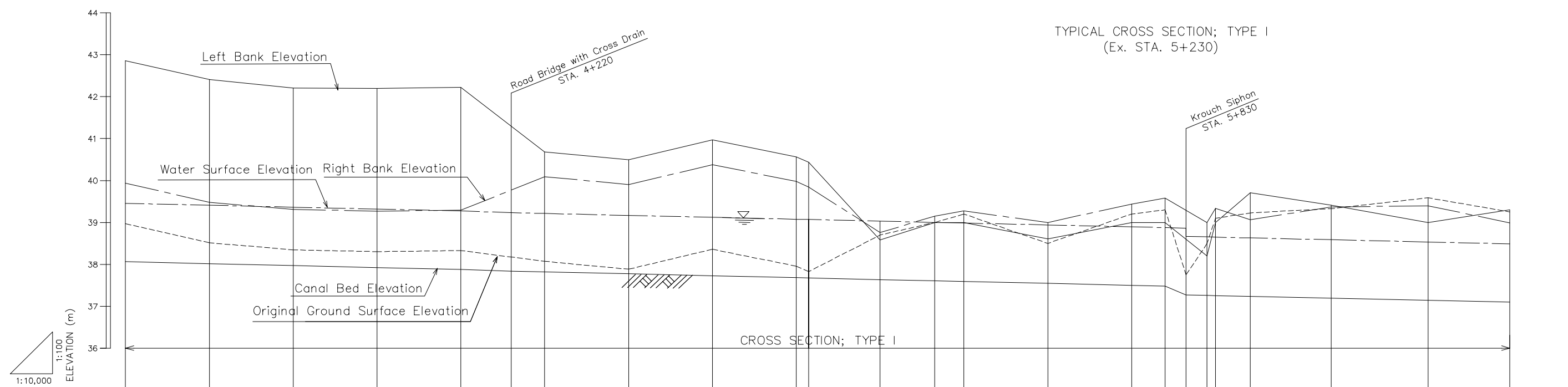
Hydraulic Parameters

| | | | | | | | |
|-------------------------------|--------------------|----------------|----------|-----------------------|--------------------|-----------------------|---------------|
| Discharge (m ³ /s) | Canal Bed Width(m) | Velocity (m/s) | Gradient | Roughness Coefficient | Canal Inside Slope | Design Water Depth(m) | Outside Slope |
| 3.500 | 2.00 | 0.524 | 1:4,400 | 0.025 | 1:2.0 | 1.39 | 1:1.5 |

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|---|--|--|-------------------------|
| Japan International Cooperation Agency (JICA) | THE STUDY ON THE REHABILITATION AND RECONSTRUCTION OF AGRICULTURAL PRODUCTION SYSTEM IN THE SLAKOU RIVER BASIN | Title of Drawing | DATE Jan. 2002 |
| | THE KINGDOM OF CAMBODIA | Upper Slakou River Irrigation Reconstruction Plan Diversion Canal; Profile of Diversion Canal(1/3) STA. 0+000 - 3+300 | DRAWING NO. 26 of 62 |



TYPICAL CROSS SECTION; TYPE I
(Ex. STA. 5+230)



CROSS SECTION; TYPE I

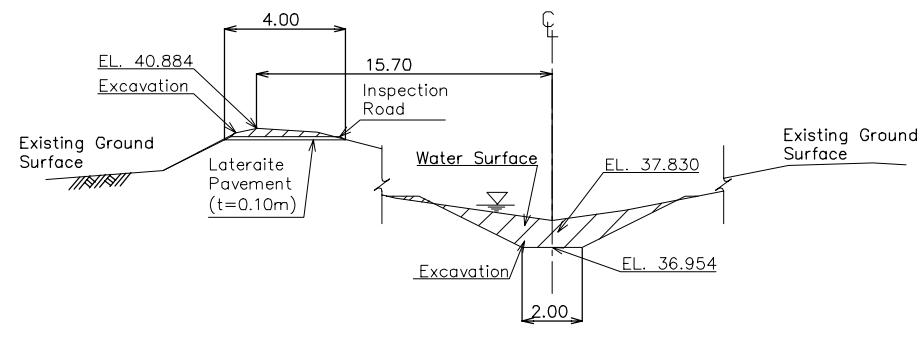
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|-----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| WATER SURFACE ELEVATION | 39.456 | 39.411 | 39.365 | 39.320 | 39.274 | 39.232 | 39.214 | 39.168 | 39.123 | 39.077 | 39.071 | 39.032 | 39.002 | 38.986 | 38.941 | 38.896 | 38.877 | 38.666 | 38.655 | 38.650 | 38.631 | 38.587 | 38.535 | 38.491 |
| HYDRAULIC CANAL BED ELEVATION | 38.062 | 38.017 | 37.971 | 37.926 | 37.880 | 37.838 | 37.820 | 37.774 | 37.729 | 37.683 | 37.677 | 37.638 | 37.608 | 37.592 | 37.547 | 37.502 | 37.483 | 37.272 | 37.261 | 37.256 | 37.237 | 37.193 | 37.141 | 37.097 |
| ORIGINAL GROUND SURFACE ELEVATION | 38.970 | 38.516 | 38.347 | 38.304 | 38.329 | 38.175 | 38.073 | 37.884 | 38.360 | 37.957 | 37.828 | 38.700 | 39.000 | 39.200 | 38.500 | 39.200 | 39.300 | 37.755 | 38.500 | 39.100 | 39.229 | 39.330 | 39.586 | 39.253 |
| LEFT BANK ELEVATION | 42.861 | 42.407 | 42.238 | 42.195 | 42.220 | 42.220 | 40.683 | 40.494 | 40.970 | 40.567 | 40.438 | 38.580 | 38.850 | 39.000 | 38.605 | 39.000 | 39.000 | 39.000 | 38.200 | 39.000 | 39.709 | 39.413 | 38.995 | 39.306 |
| RIGHT BANK ELEVATION | 39.936 | 39.482 | 39.313 | 39.270 | 39.295 | 40.092 | 39.903 | 40.379 | 40.379 | 39.976 | 39.847 | 38.760 | 39.150 | 39.275 | 39.000 | 39.440 | 39.580 | 39.000 | 39.340 | 39.340 | 39.066 | 39.369 | 39.399 | 38.986 |
| ACCUMULATED DISTANCE | 3,300 | 3,500 | 3,700 | 3,900 | 4,100 | 4,220 | 4,300 | 4,500 | 4,700 | 4,900 | 4,930 | 5,100 | 5,230 | 5,300 | 5,500 | 5,700 | 5,780 | 5,830 | 5,880 | 5,900 | 5,983 | 6,176 | 6,407 | 6,602 |
| DISTANCE | 200 | 200 | 200 | 200 | 200 | 120 | 80 | 200 | 200 | 200 | 30 | 170 | 130 | 70 | 200 | 200 | 80 | 50 | 50 | 20 | 83 | 193 | 231 | 195 |
| STATION NO. | 3+300 | 3+500 | 3+700 | 3+900 | 4+100 | 4+220 | 4+300 | 4+500 | 4+700 | 4+900 | 4+930 | 5+100 | 5+230 | 5+300 | 5+500 | 5+700 | 5+780 | 5+830 | 5+880 | 5+900 | 5+983 | 6+176 | 6+407 | 6+602 |

Hydraulic Parameters

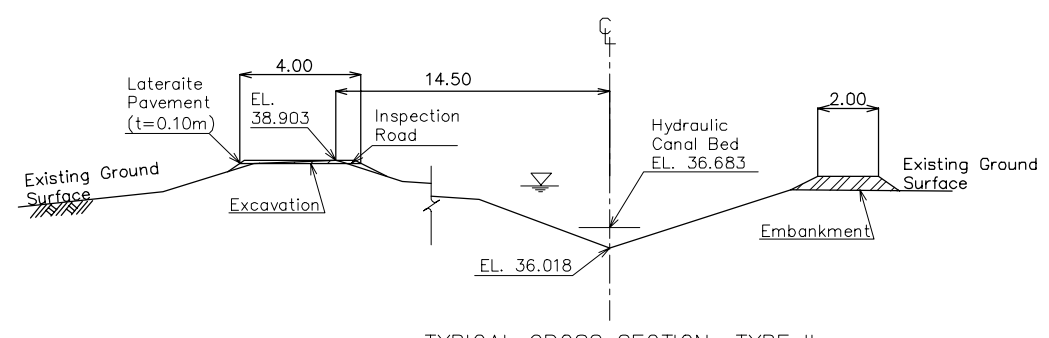
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|-------------------------------|--------------------|----------------|----------|-----------------------|--------------------|-----------------------|---------------|
| Discharge (m ³ /s) | Canal Bed Width(m) | Velocity (m/s) | Gradient | Roughness Coefficient | Canal Inside Slope | Design Water Depth(m) | Outside Slope |
| 3.500 | 2.00 | 0.524 | 1:4,400 | 0.025 | 1:2.0 | 1.39 | 1:1.5 |

Note ; Stripping shall be given to the original ground on which embankment will be made.

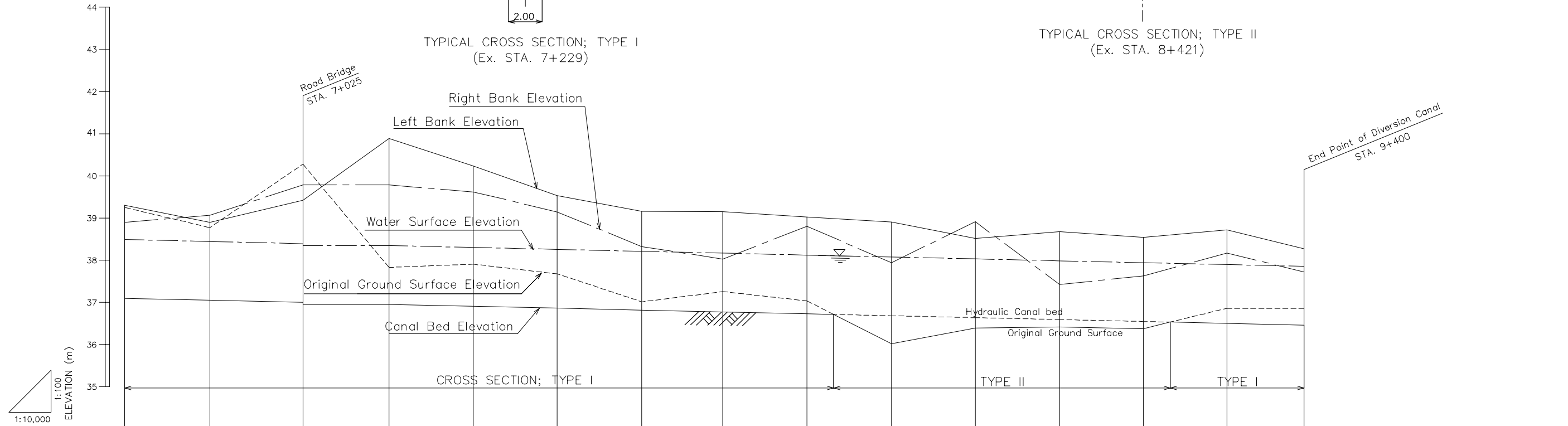
| | | | |
|---|--|--|-------------------------|
| Japan International Cooperation Agency (JICA) | THE STUDY ON THE REHABILITATION AND RECONSTRUCTION OF AGRICULTURAL PRODUCTION SYSTEM IN THE SLAKOU RIVER BASIN | Title of Drawing | DATE Jan. 2002 |
| | THE KINGDOM OF CAMBODIA | Upper Slakou River Irrigation Reconstruction Plan Diversion Canal; Profile of Diversion Canal(2/3) STA. 3+300 - 6+602 | DRAWING NO. 27 of 62 |



TYPICAL CROSS SECTION; TYPE I
(Ex. STA. 7+229)



TYPICAL CROSS SECTION; TYPE II
(Ex. STA. 8+421)



| WATER SURFACE ELEVATION | 38.491 | 38.445 | 38.394 | 38.348 | 38.303 | 38.257 | 38.212 | 38.168 | 38.123 | 38.077 | 38.032 | 37.986 | 37.941 | 37.896 | 37.855 |
|-----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| HYDRAULIC CANAL BED ELEVATION | 37.097 | 37.051 | 37.000 | 36.954 | 36.909 | 36.863 | 36.818 | 36.774 | 36.729 | 36.683 | 36.638 | 36.592 | 36.547 | 36.502 | 36.461 |
| ORIGINAL GROUND SURFACE ELEVATION | 39.253 | 38.774 | 40.279 | 37.830 | 37.907 | 37.677 | 37.014 | 37.256 | 37.036 | 36.018 | 36.393 | 36.414 | 36.376 | 36.861 | 36.861 |
| LEFT BANK ELEVATION | 39.306 | 38.894 | 39.419 | 40.884 | 40.232 | 39.530 | 39.161 | 39.151 | 39.029 | 38.903 | 38.518 | 38.676 | 38.545 | 38.720 | 38.272 |
| RIGHT BANK ELEVATION | 38.986 | 39.068 | 39.789 | 39.786 | 39.622 | 39.147 | 38.325 | 38.026 | 38.807 | 37.938 | 38.915 | 37.426 | 37.628 | 38.171 | 37.723 |
| ACCUMULATED DISTANCE | 6,602 | 6,804 | 7,025 | 7,229 | 7,429 | 7,628 | 7,829 | 8,021 | 8,221 | 8,421 | 8,620 | 8,820 | 9,019 | 9,217 | 9,400 |
| DISTANCE | 195 | 202 | 221 | 204 | 200 | 199 | 201 | 192 | 200 | 200 | 199 | 200 | 199 | 198 | 183 |
| STATION NO. | 6+602 | 6+804 | 7+025 | 7+229 | 7+429 | 7+628 | 7+829 | 8+021 | 8+221 | 8+421 | 8+620 | 8+820 | 9+019 | 9+217 | 9+400 |

Hydraulic Parameters

| Discharge (m ³ /s) | Canal Bed Width(m) | Velocity (m/s) | Gradient | Roughness Coefficient | Canal Inside Slope | Design Water Depth(m) | Outside Slope |
|-------------------------------|--------------------|----------------|----------|-----------------------|--------------------|-----------------------|---------------|
| 3.500 | 2.00 | 0.524 | 1:4,400 | 0.025 | 1:2.0 | 1.39 | 1:1.5 |

Note ; Stripping shall be given to the original ground on which embankment will be made.

| | | | |
|---|--|--|-------------------------|
| Japan International Cooperation Agency (JICA) | THE STUDY ON THE REHABILITATION AND RECONSTRUCTION OF AGRICULTURAL PRODUCTION SYSTEM IN THE SLAKOU RIVER BASIN | Title of Drawing | DATE Jan. 2002 |
| | THE KINGDOM OF CAMBODIA | Upper Slakou River Irrigation Reconstruction Plan Diversion Canal; Profile of Diversion Canal(3/3) STA. 6+602 - 9+400 | DRAWING NO. 28 of 62 |

