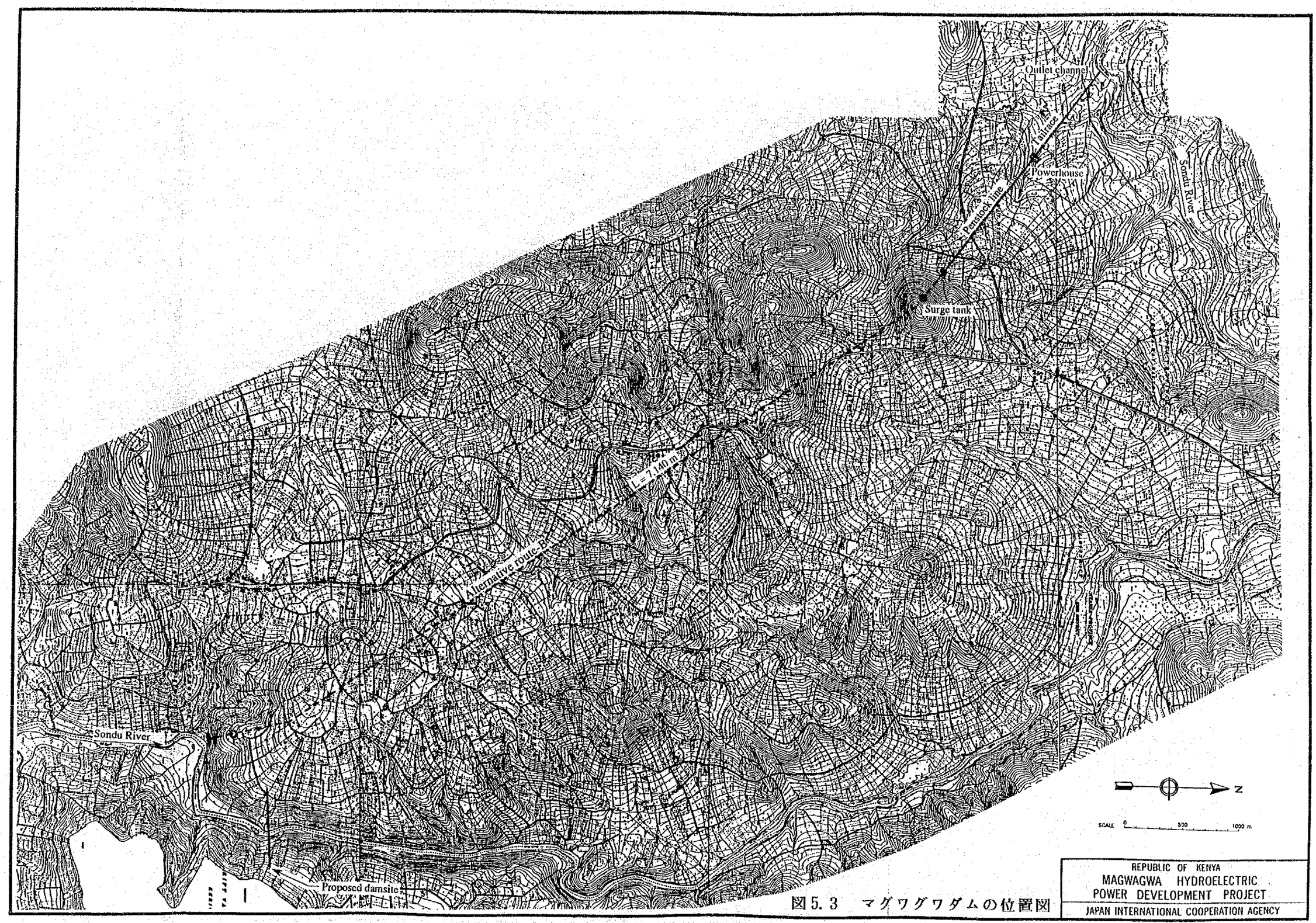


図5.3　マグワグワダムの位置図

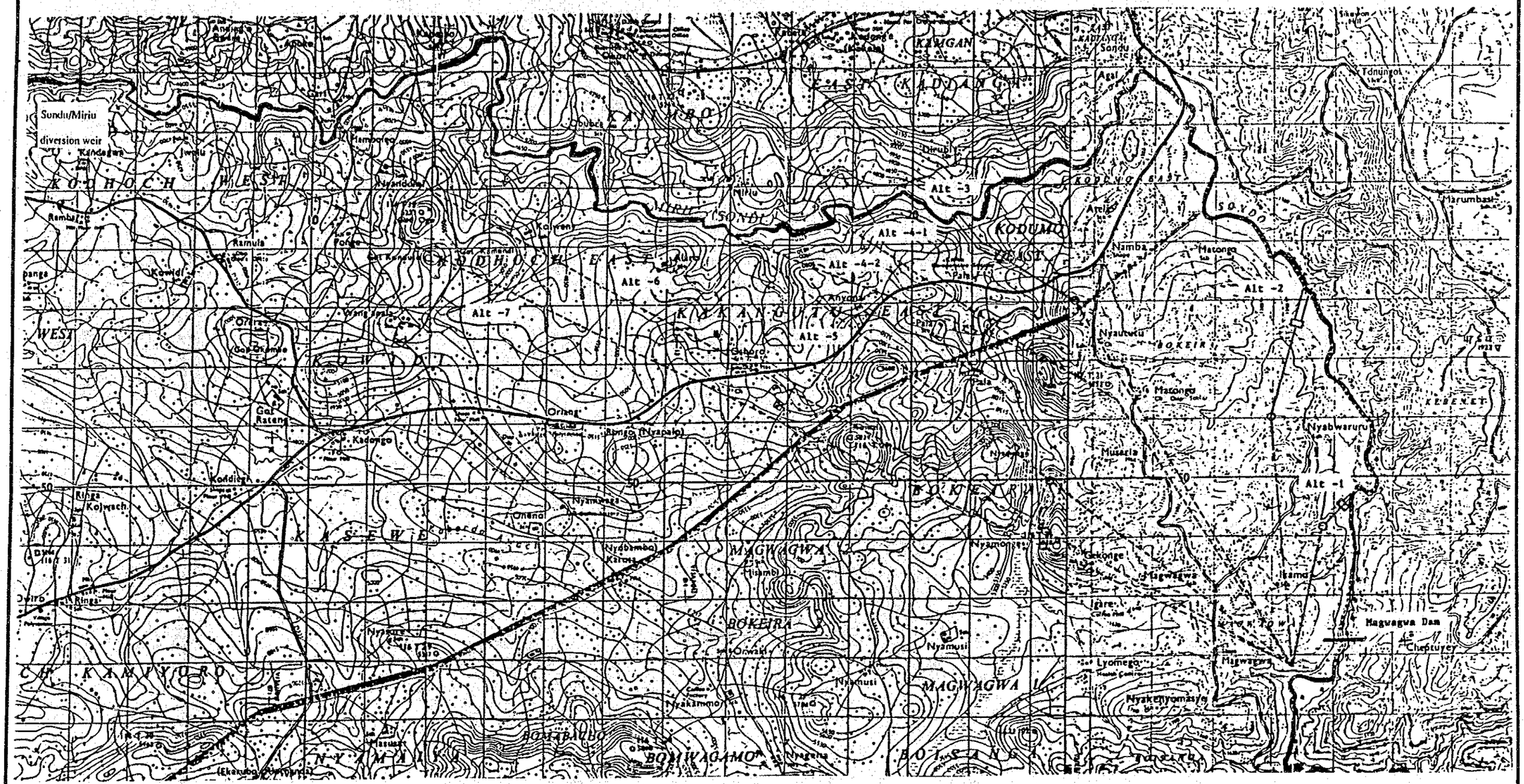


図 5. 4　マグワグワ水力発電計画

REPUBLIC OF KENYA
MAGWAGWA HYDROELECTRIC
POWER DEVELOPMENT PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY

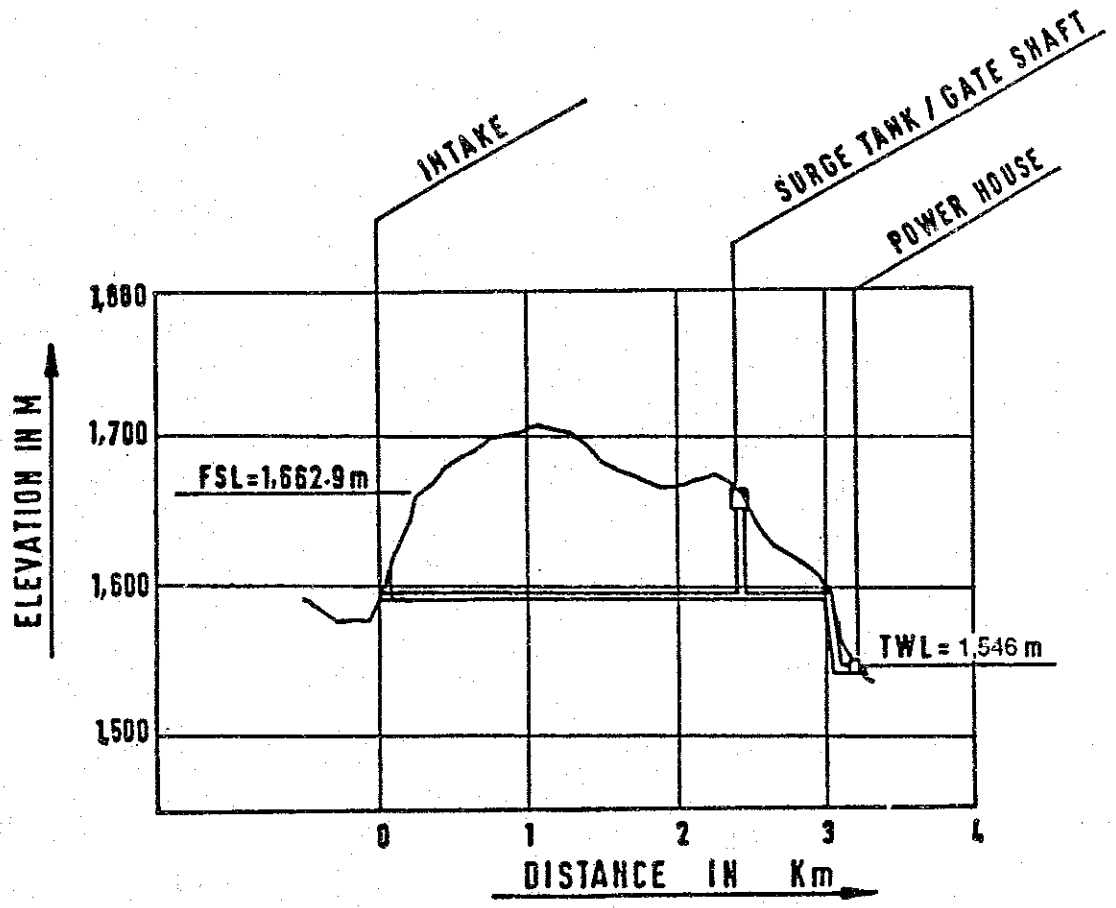


図5.5　代替案－1の縦断図

REPUBLIC OF KENYA
MAGWAGWA HYDROELECTRIC
POWER DEVELOPMENT PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY

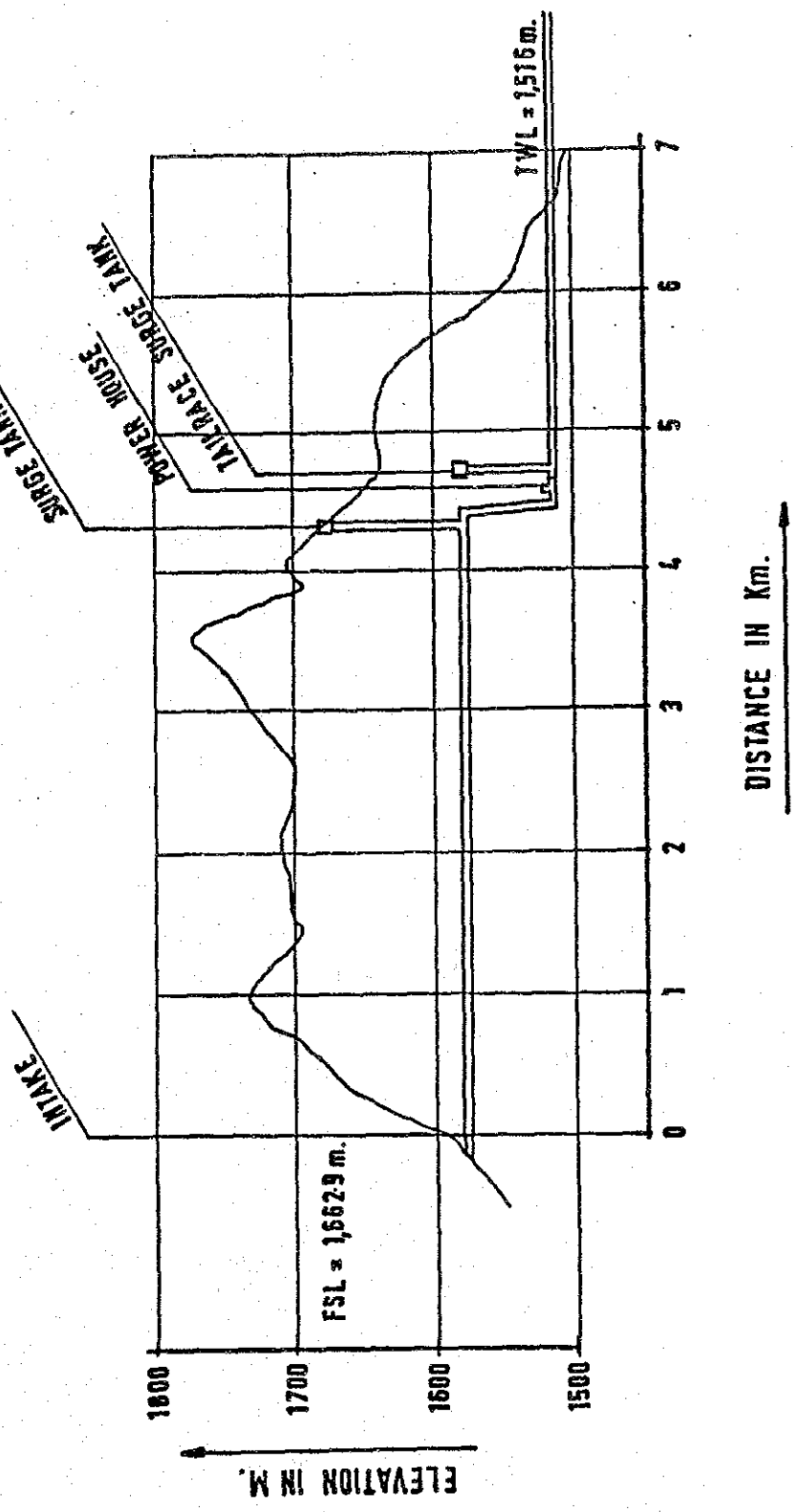


図5.6　代替案－2の縦断図

REPUBLIC OF KENYA
MAGWAGWA HYDROELECTRIC
POWER DEVELOPMENT PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY

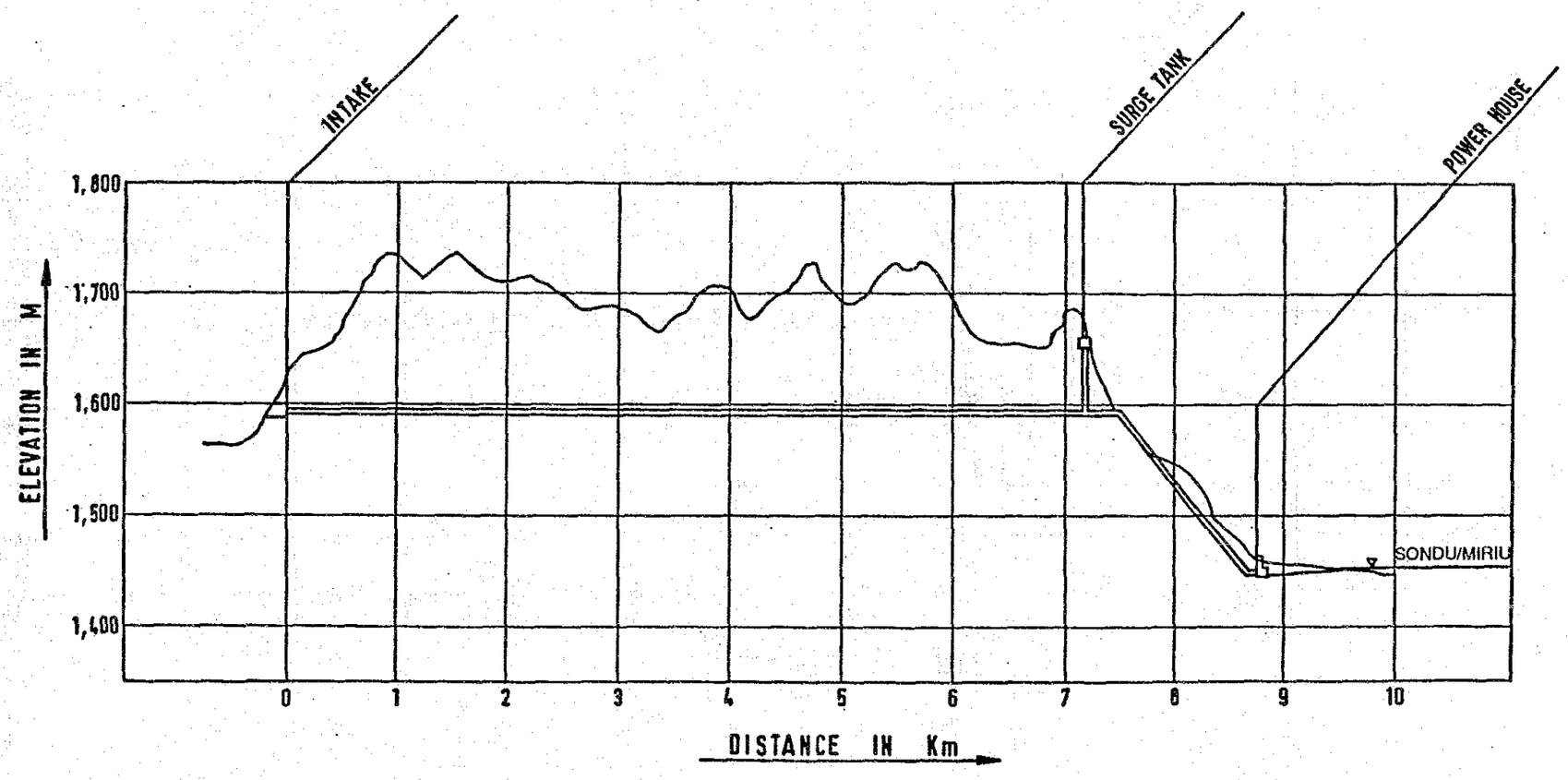


図5.7　代替案－3の縦断図

REPUBLIC OF KENYA
MAGWAGWA HYDROELECTRIC
POWER DEVELOPMENT PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY

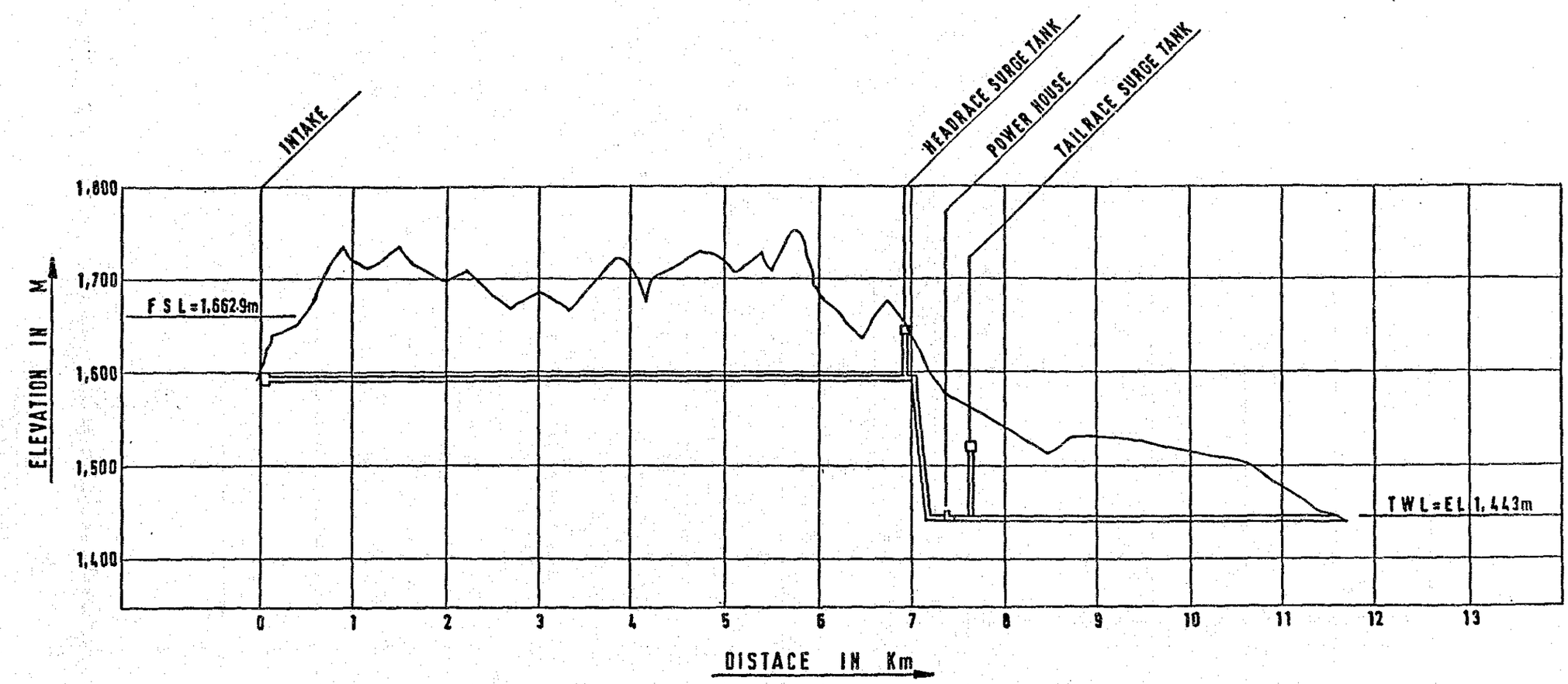


図5.8　代替案4－1の縦断図

REPUBLIC OF KENYA
MAGWAGWA HYDROELECTRIC
POWER DEVELOPMENT PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY

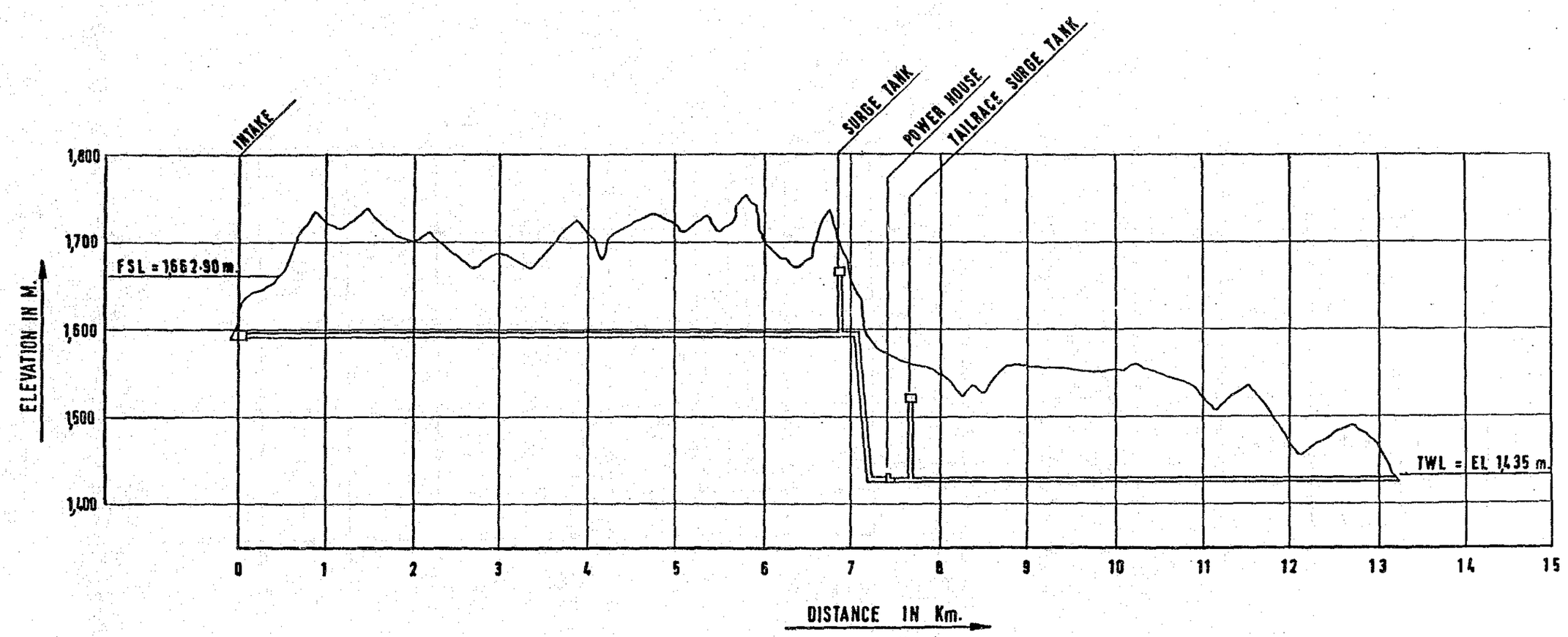


図5.9　代替案4－2の縦断図

REPUBLIC OF KENYA
MAGWAGWA HYDROELECTRIC
POWER DEVELOPMENT PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY

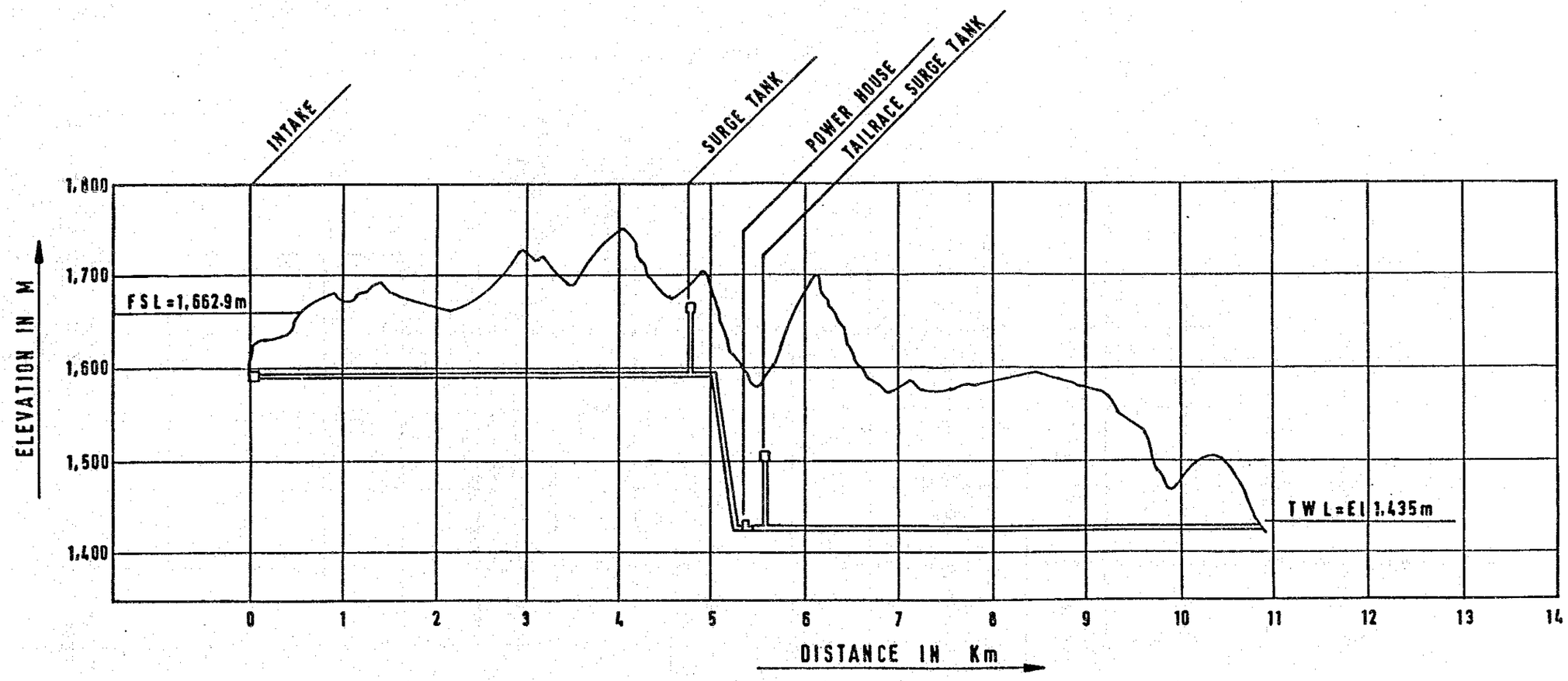


図 5.10　代替案－5の縦断図

REPUBLIC OF KENYA
MAGWAGWA HYDROELECTRIC
POWER DEVELOPMENT PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY

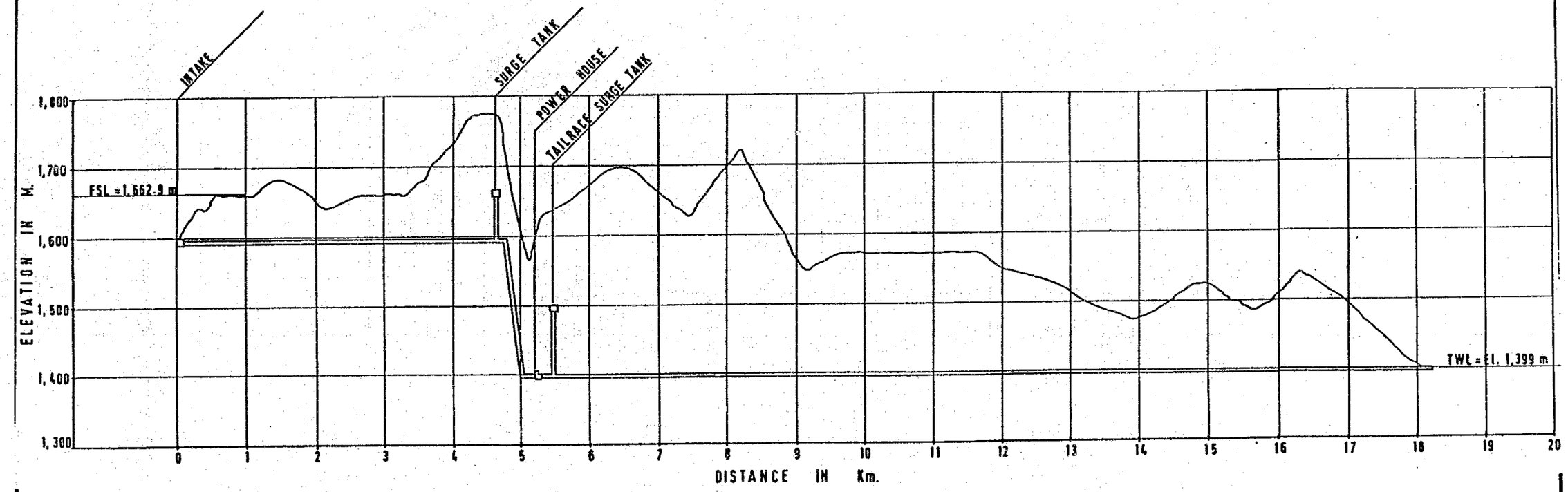


図5.11 代替案－6の縦断図

REPUBLIC OF KENYA
MAGWAGWA HYDROELECTRIC
POWER DEVELOPMENT PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY

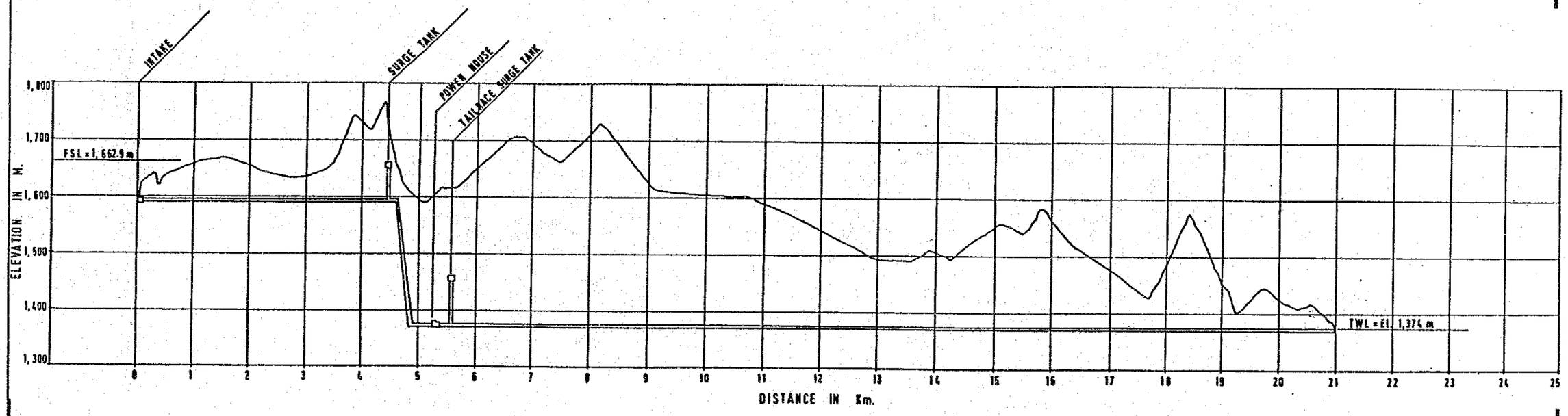


図 5.12　代替案－7の縦断図

REPUBLIC OF KENYA
MAGWAGWA HYDROELECTRIC
POWER DEVELOPMENT PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY

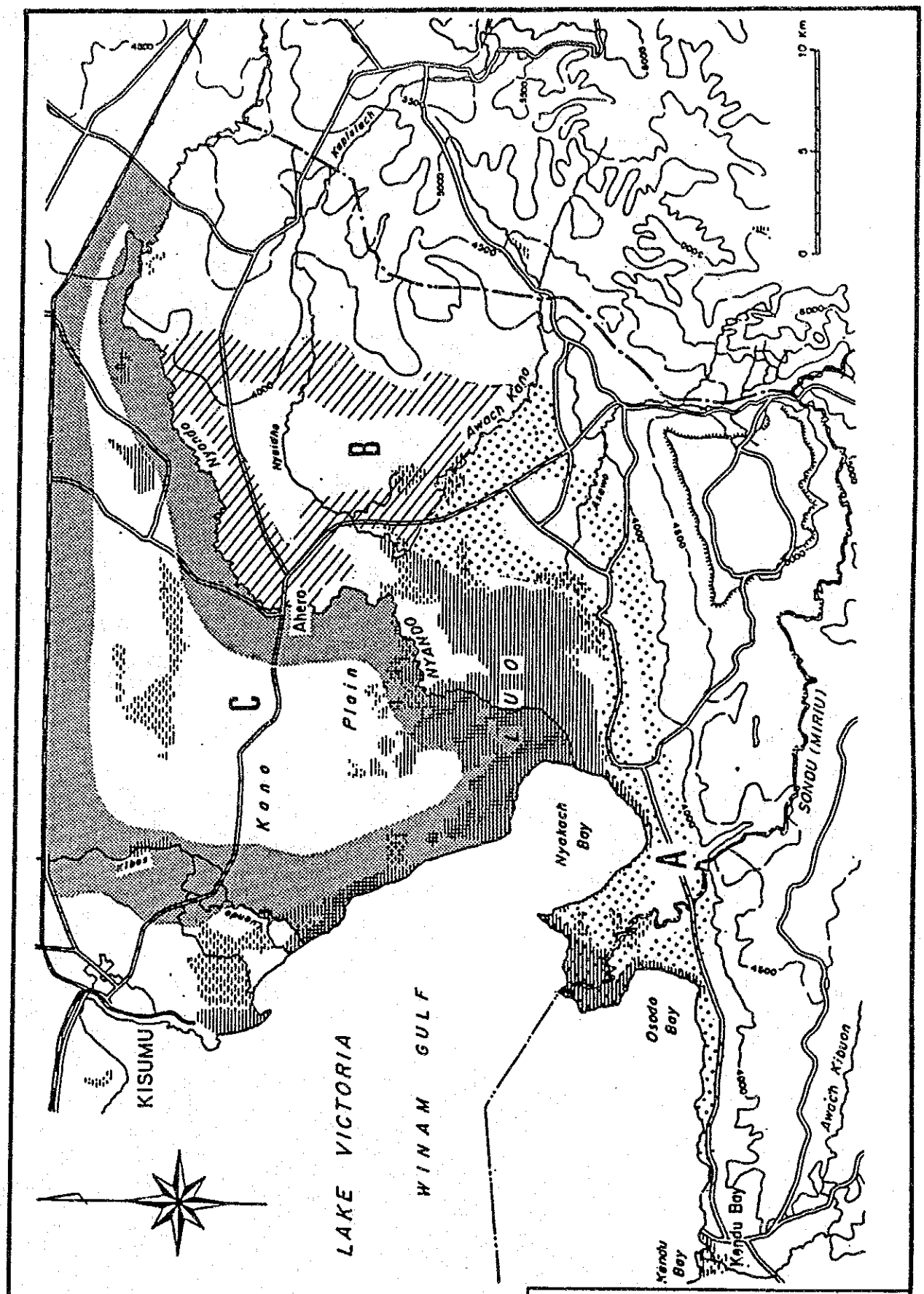


図 5.13　カノー平野内かんがい面積

REPUBLIC OF KENYA
MAGWAGWA HYDROELECTRIC
POWER DEVELOPMENT PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY

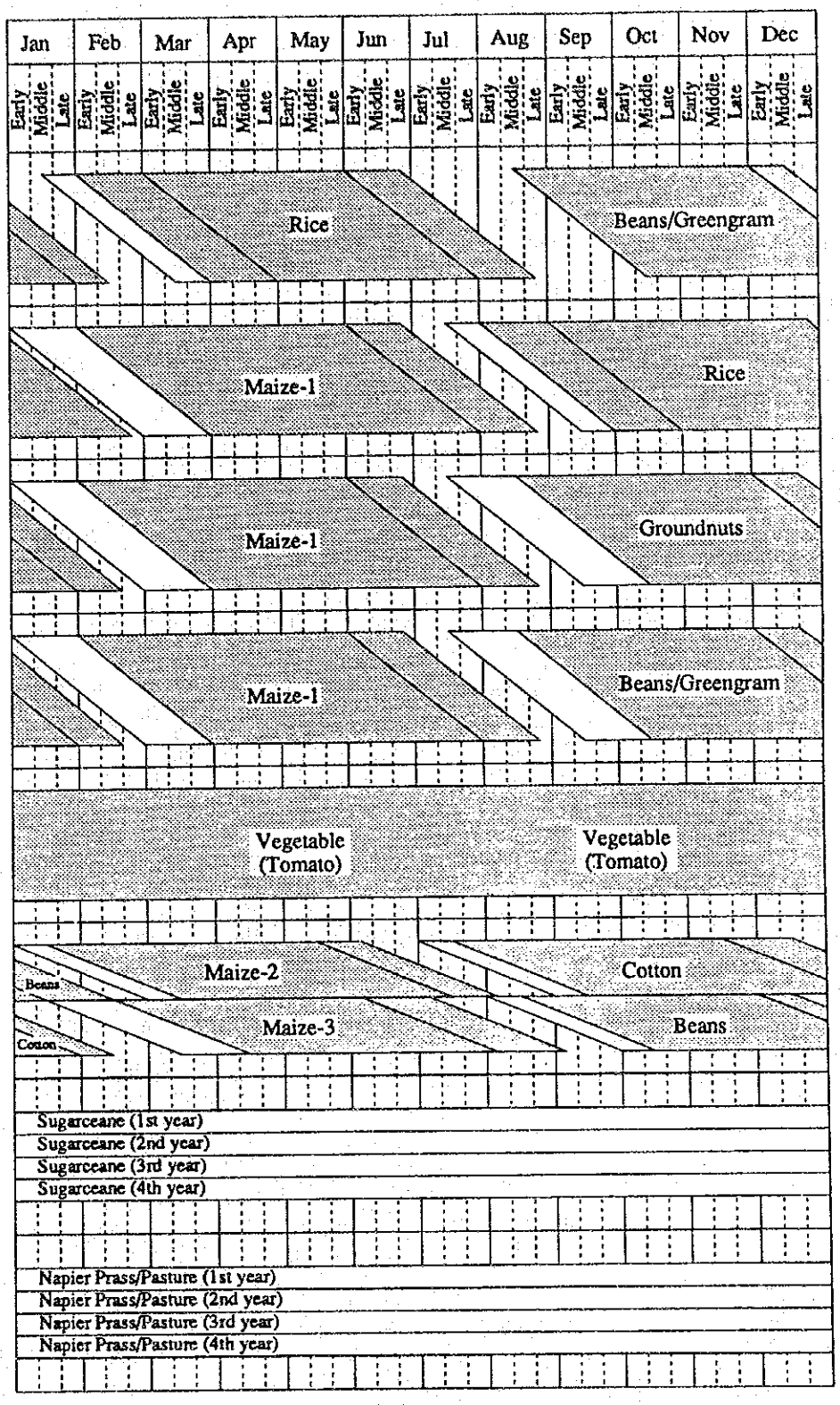
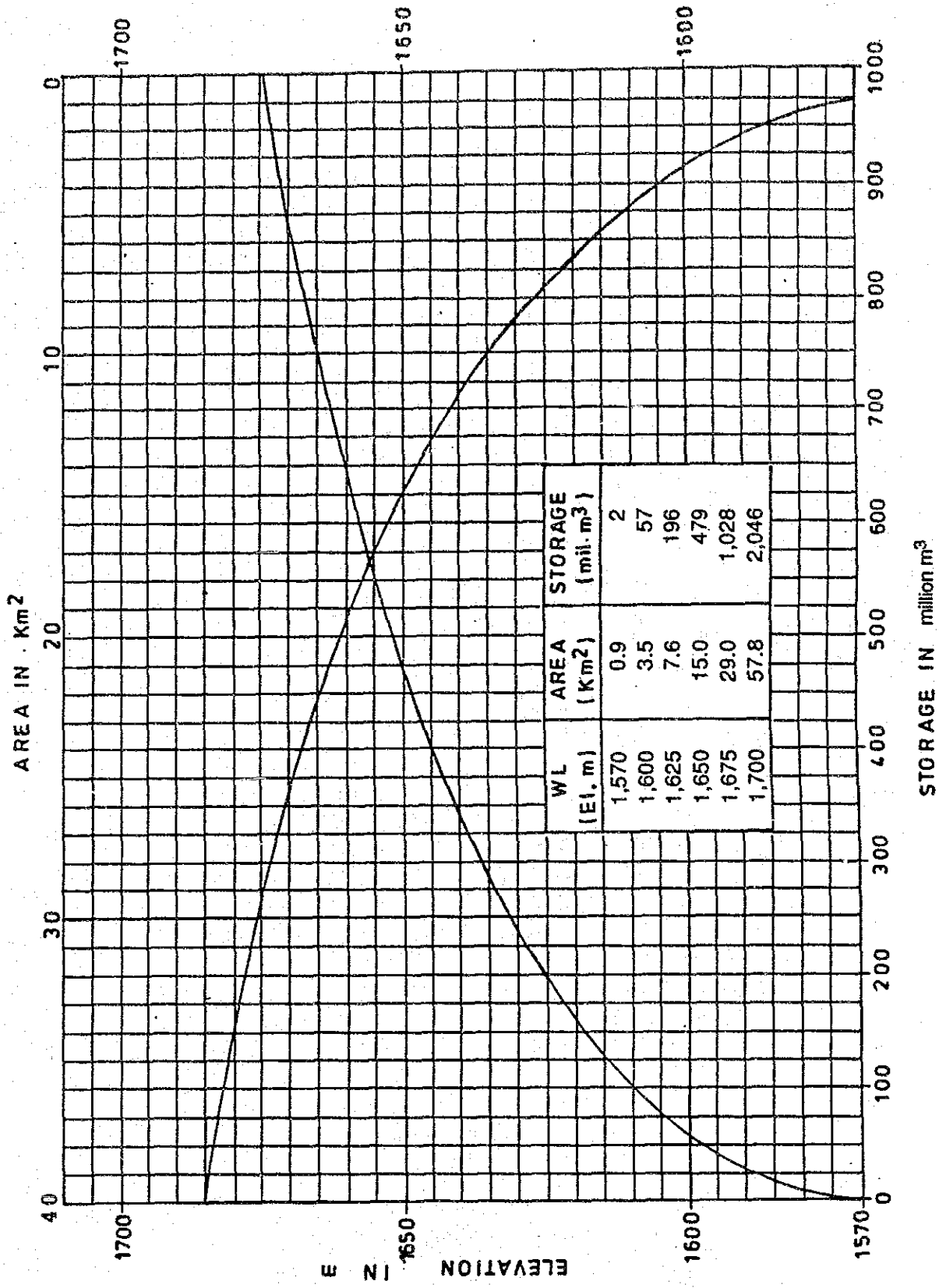


図 5.14　各ゾーンの作付方法

REPUBLIC OF KENYA
MAGWAGWA HYDROELECTRIC POWER DEVELOPMENT PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY



WL (El. m)	AREA (Km²)	STORAGE (mil. m³)
1,570	0.9	2
1,600	3.5	57
1,625	7.6	196
1,650	15.0	479
1,675	29.0	1,028
1,700	57.8	2,046

図 5.15　貯水池面積容量曲線

REPUBLIC OF KENYA
MAGWAGWA HYDROELECTRIC
POWER DEVELOPMENT PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY

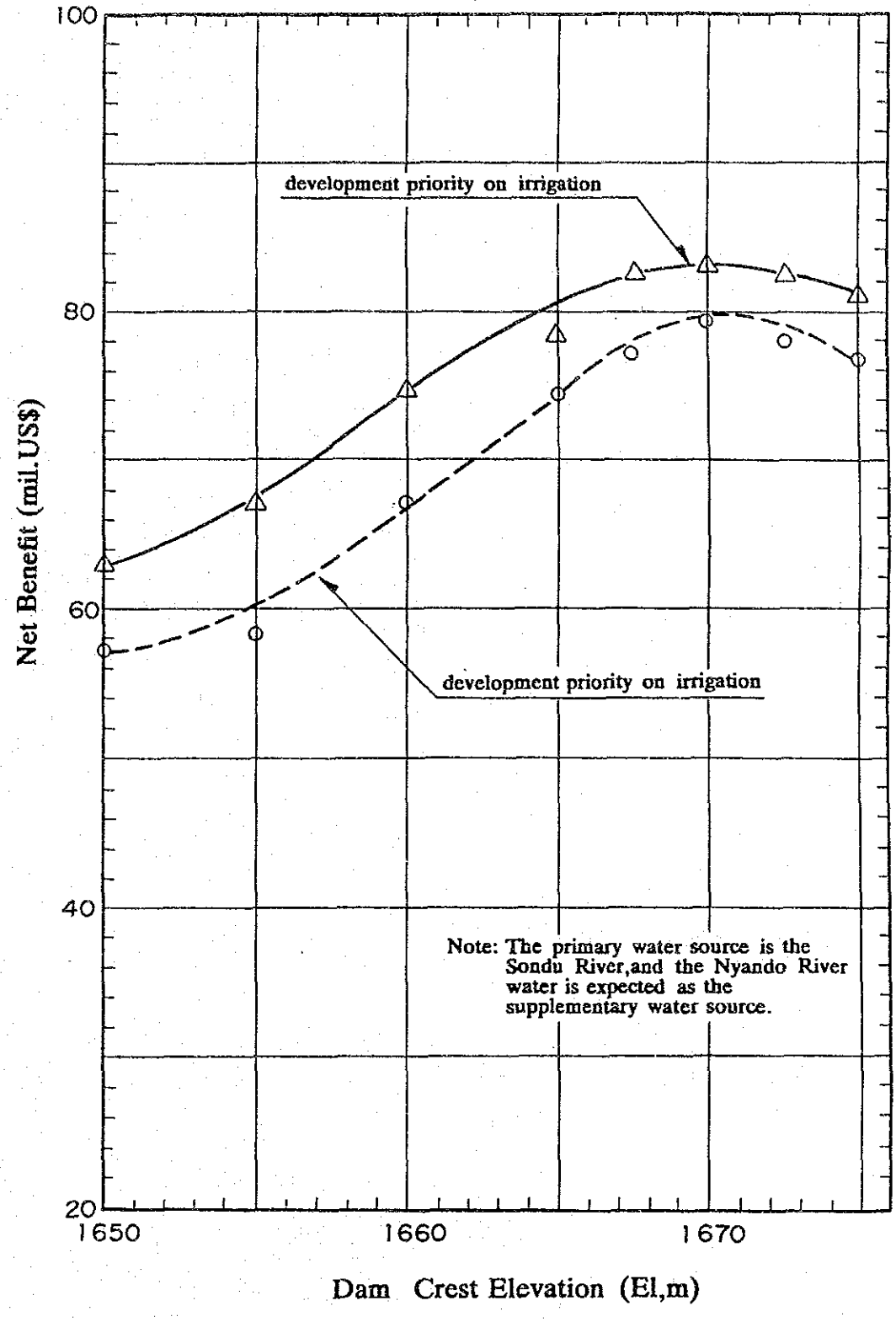
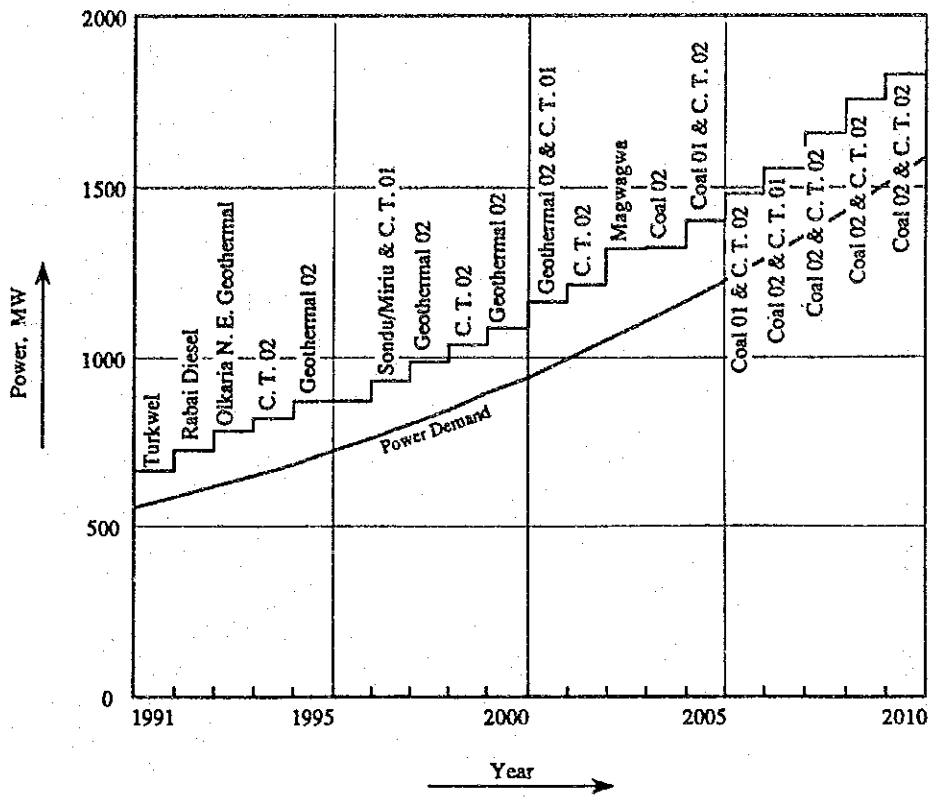


図5.16 マグワグワダムの最適化検討

REPUBLIC OF KENYA
MAGWAGWA HYDROELECTRIC POWER DEVELOPMENT PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY



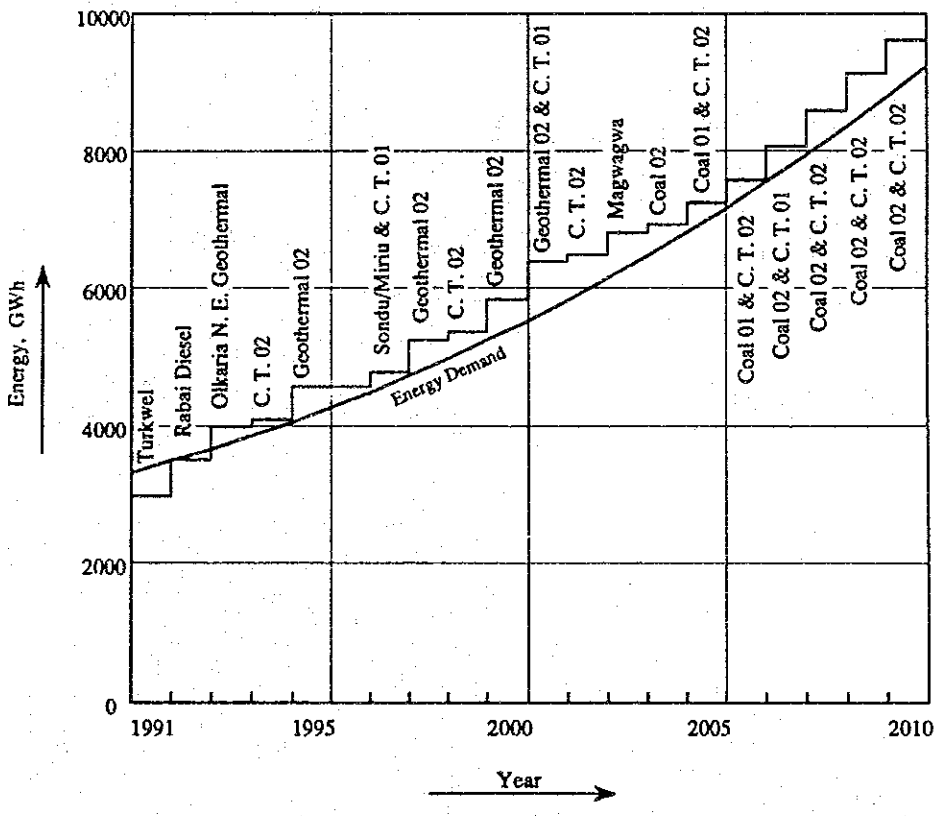


図 5.17　長期電力開発計画

REPUBLIC OF KENYA
MAGWAGWA HYDROELECTRIC
POWER DEVELOPMENT PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY

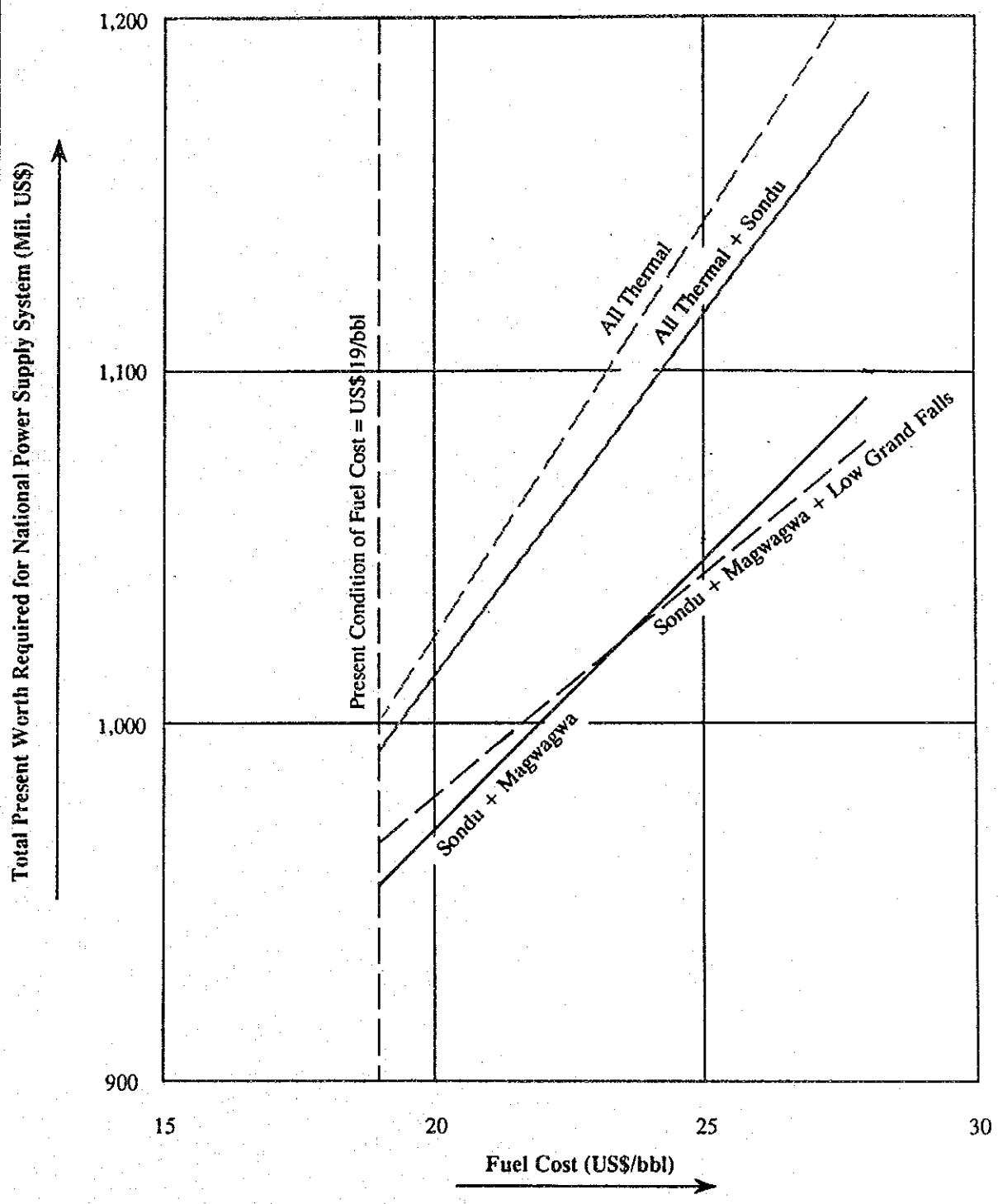


図 5.18　原油価格を変動させた場合の感度分析の結果

REPUBLIC OF KENYA
MAGWAGWA HYDROELECTRIC
POWER DEVELOPMENT PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY

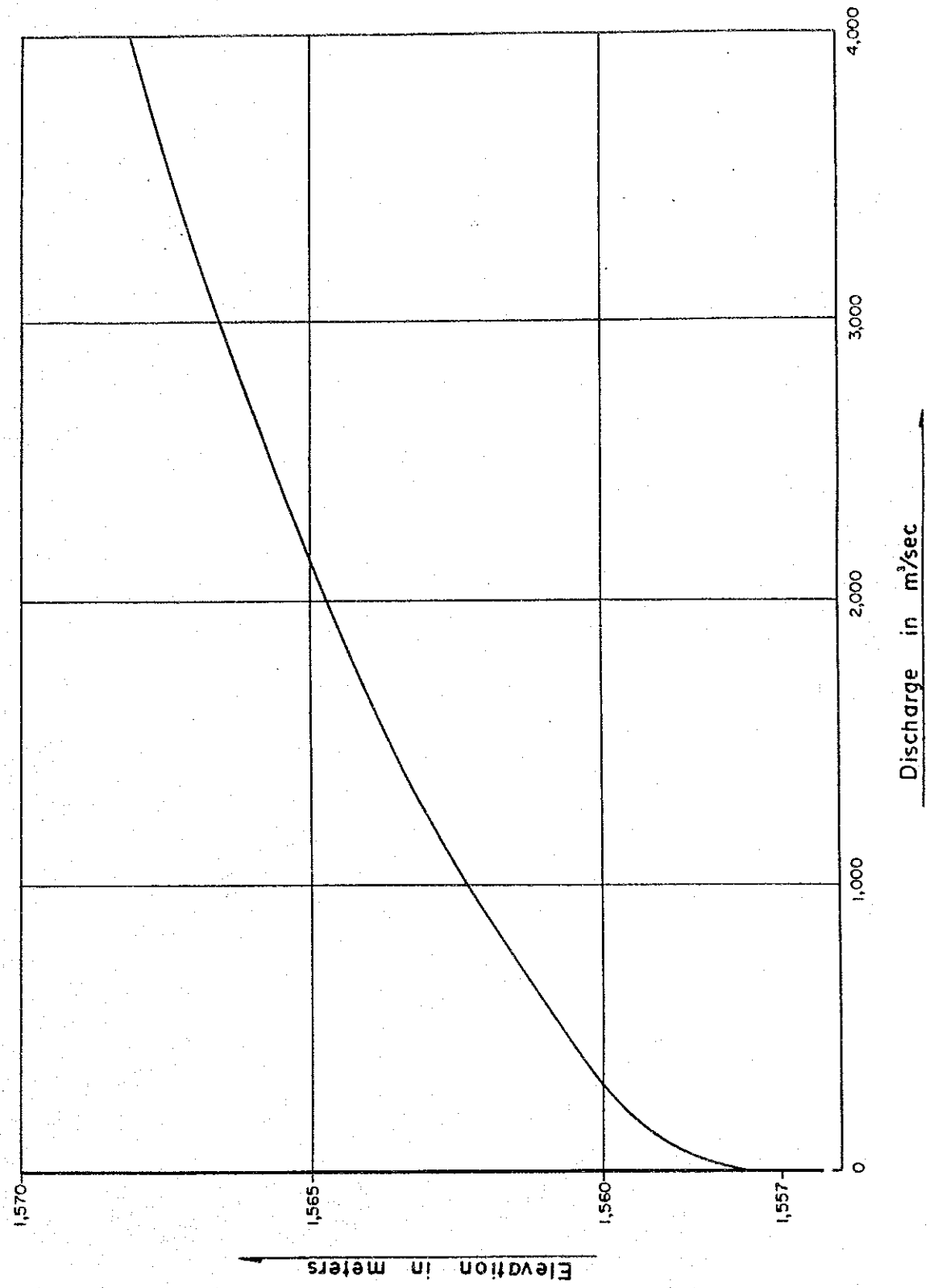


図 6. 1　水位－流量曲線

REPUBLIC OF KENYA
MAGWAGWA HYDROELECTRIC
POWER DEVELOPMENT PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY

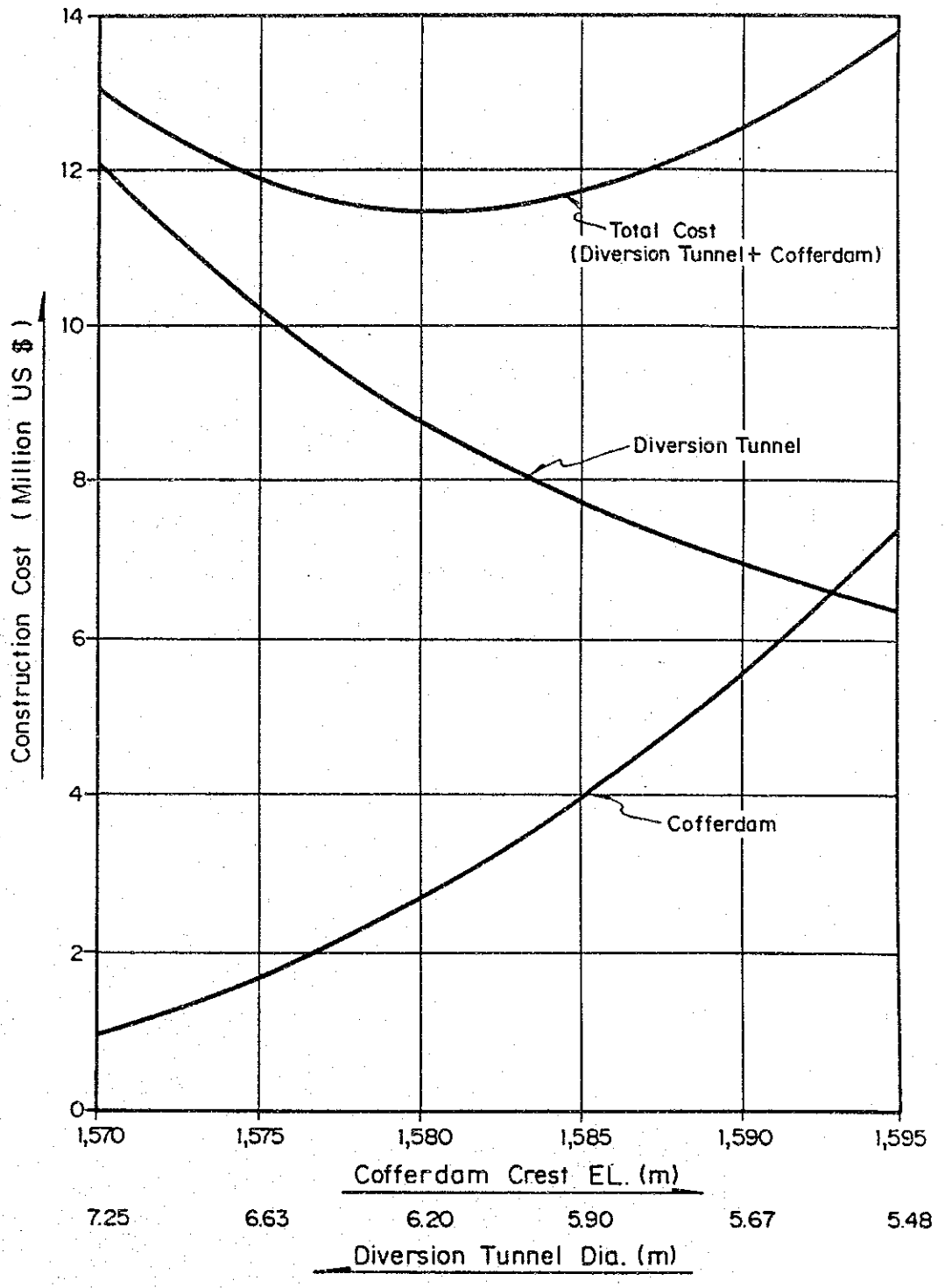
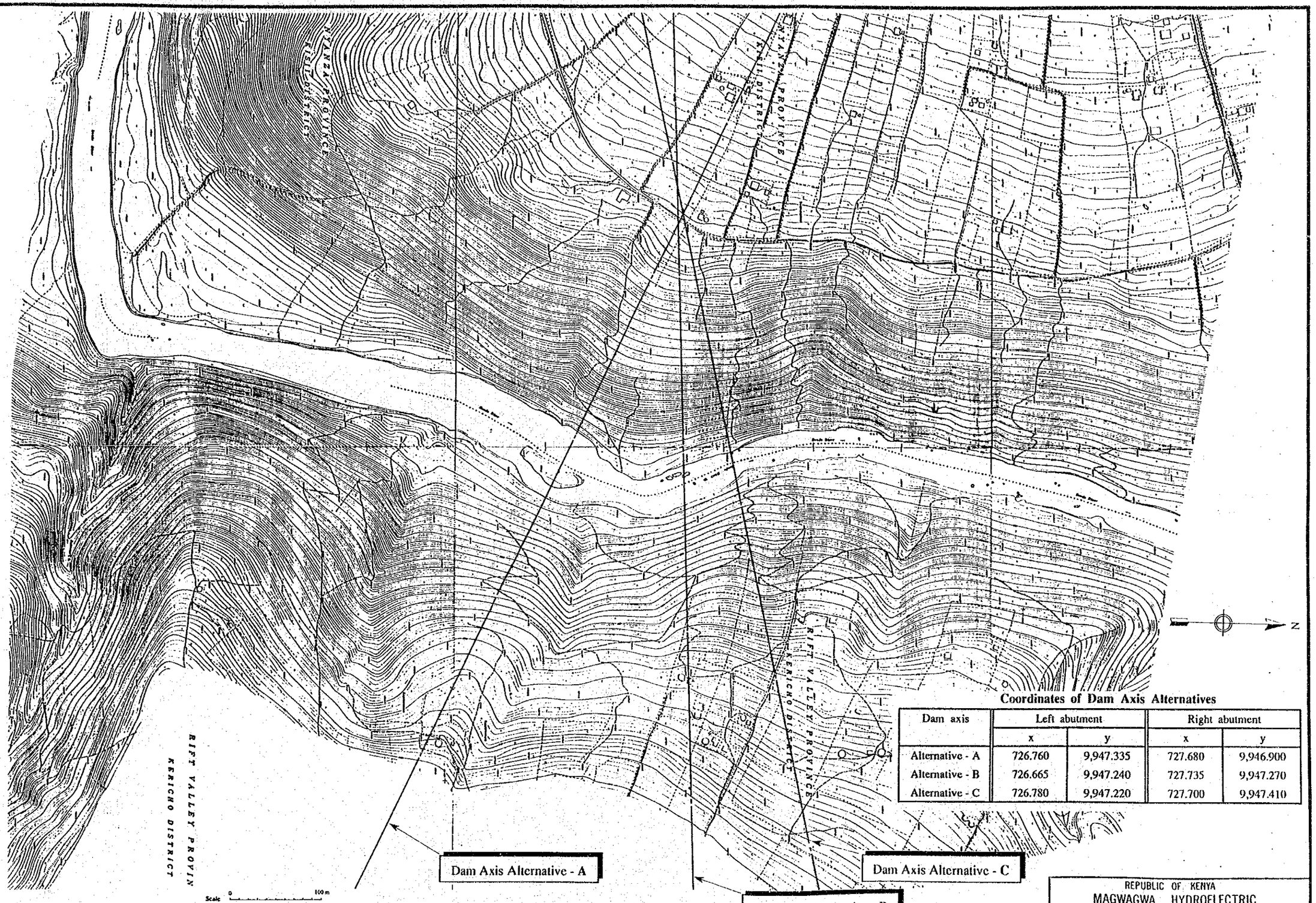


図 6. 2　仮排水路と仮締切ダムの建設費用曲線

REPUBLIC OF KENYA
MAGWAGWA HYDROELECTRIC
POWER DEVELOPMENT PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY



Coordinates of Dam Axis Alternatives

Dam axis	Left abutment		Right abutment	
	x	y	x	y
Alternative - A	726.760	9,947.335	727.680	9,946.900
Alternative - B	726.665	9,947.240	727.735	9,947.270
Alternative - C	726.780	9,947.220	727.700	9,947.410

図6.3　ダム軸代替案の位置図

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POWER DEVELOPMENT PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY

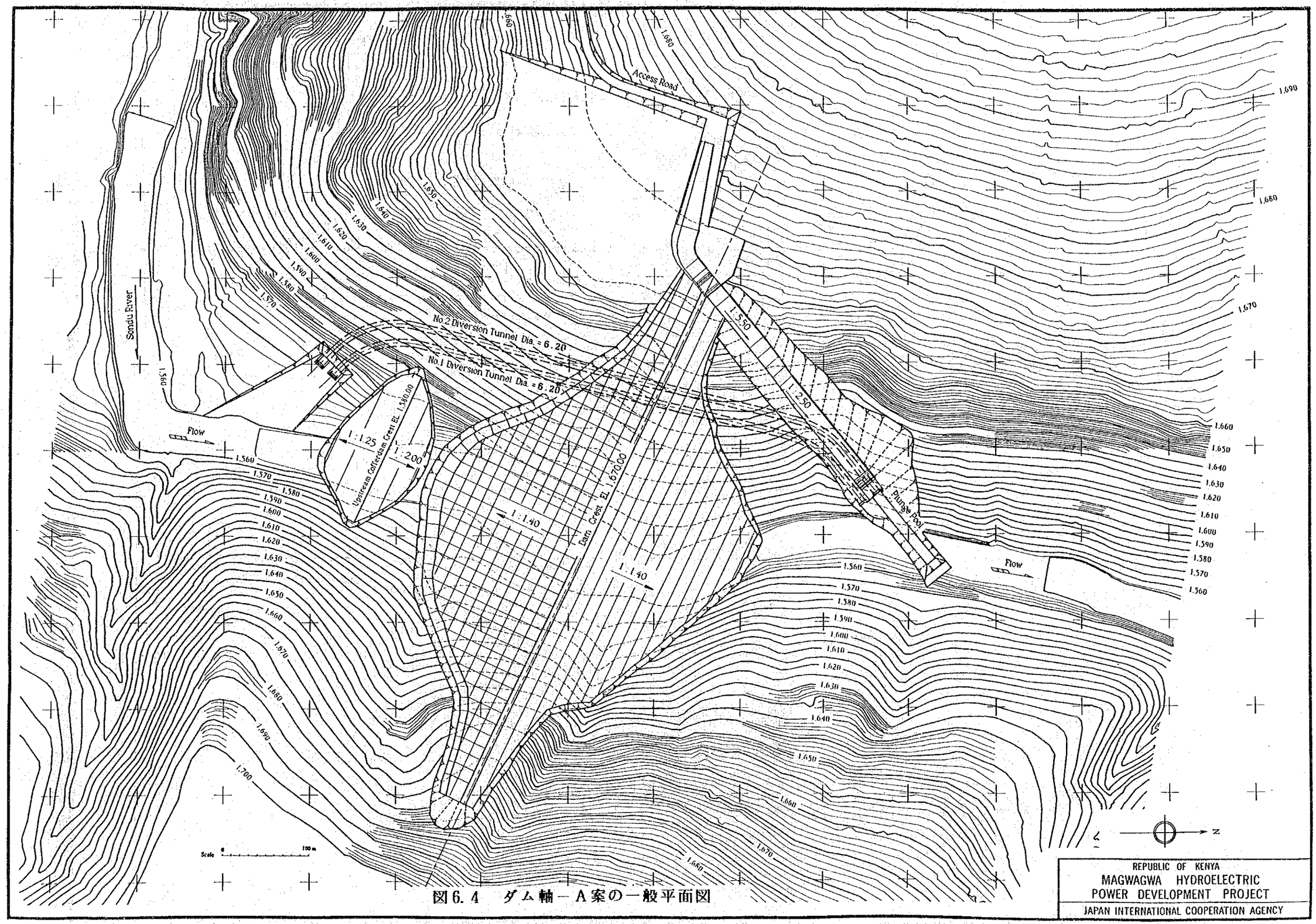
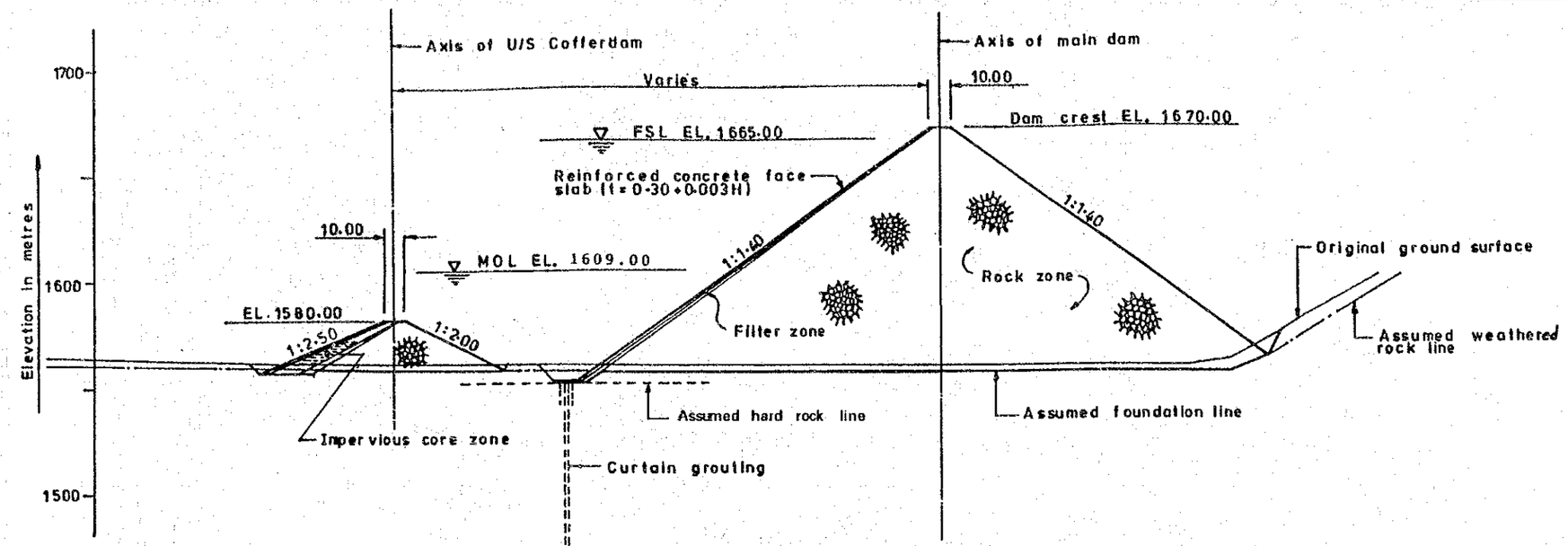
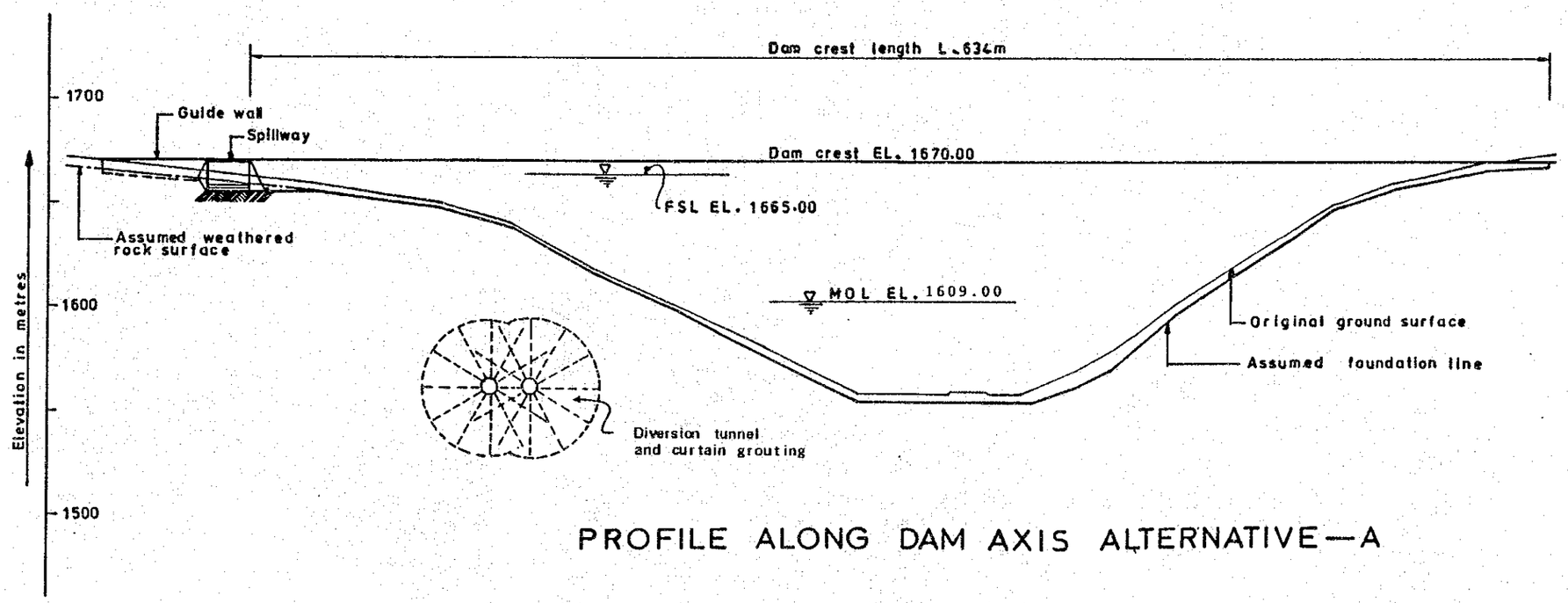


図6.4　ダム軸－A案の一般平面図



TYPICAL CROSS SECTION
(Dam Axis Alternative—A)



PROFILE ALONG DAM AXIS ALTERNATIVE—A

Scale 0 100 m

図6.5 ダム軸－A案の縦・横断図

REPUBLIC OF KENYA
MAGWAGWA HYDROELECTRIC POWER DEVELOPMENT PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY

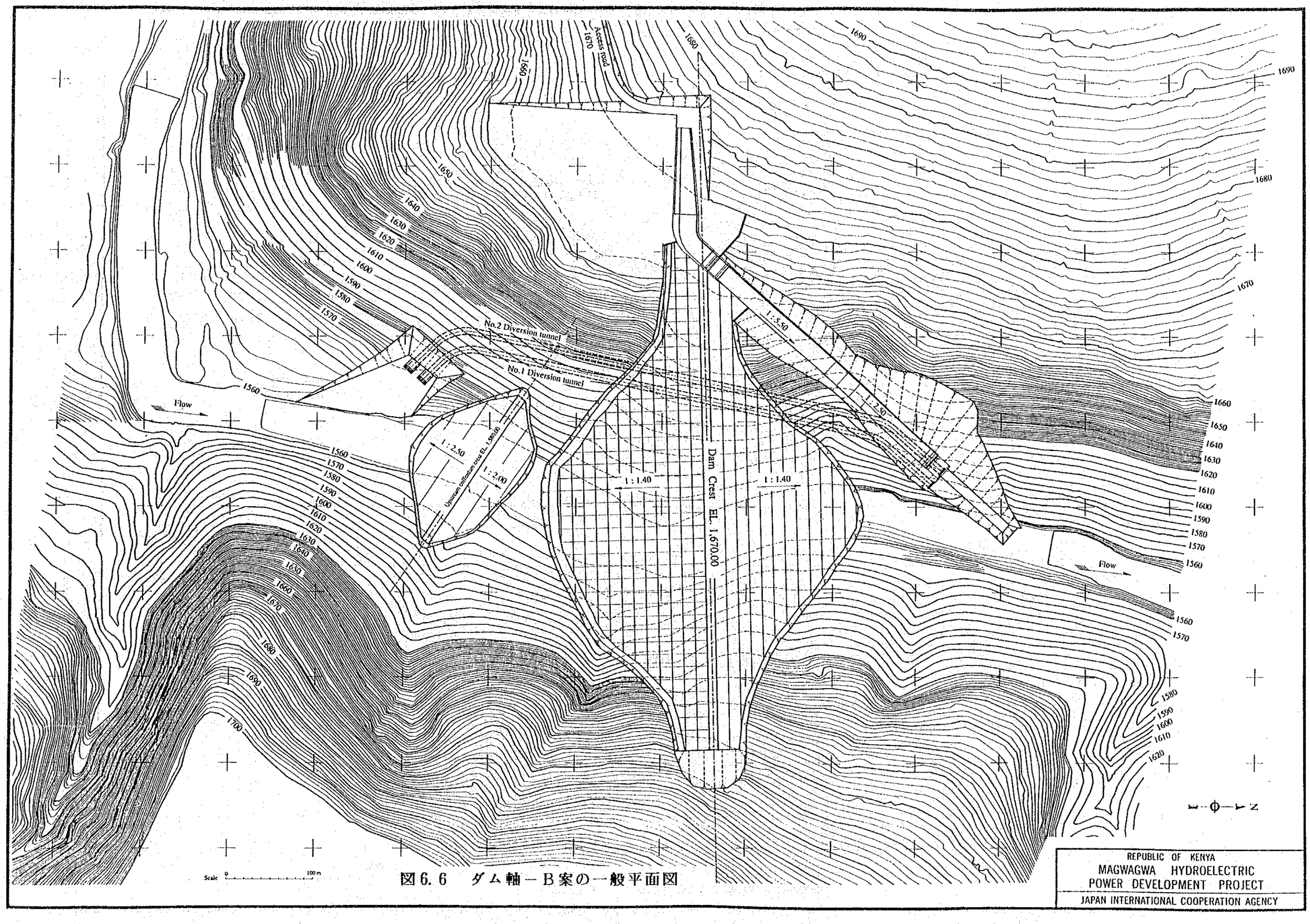


図6.6　ダム軸－B案の一般平面図

REPUBLIC OF KENYA
MAGWAGWA HYDROELECTRIC
POWER DEVELOPMENT PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY

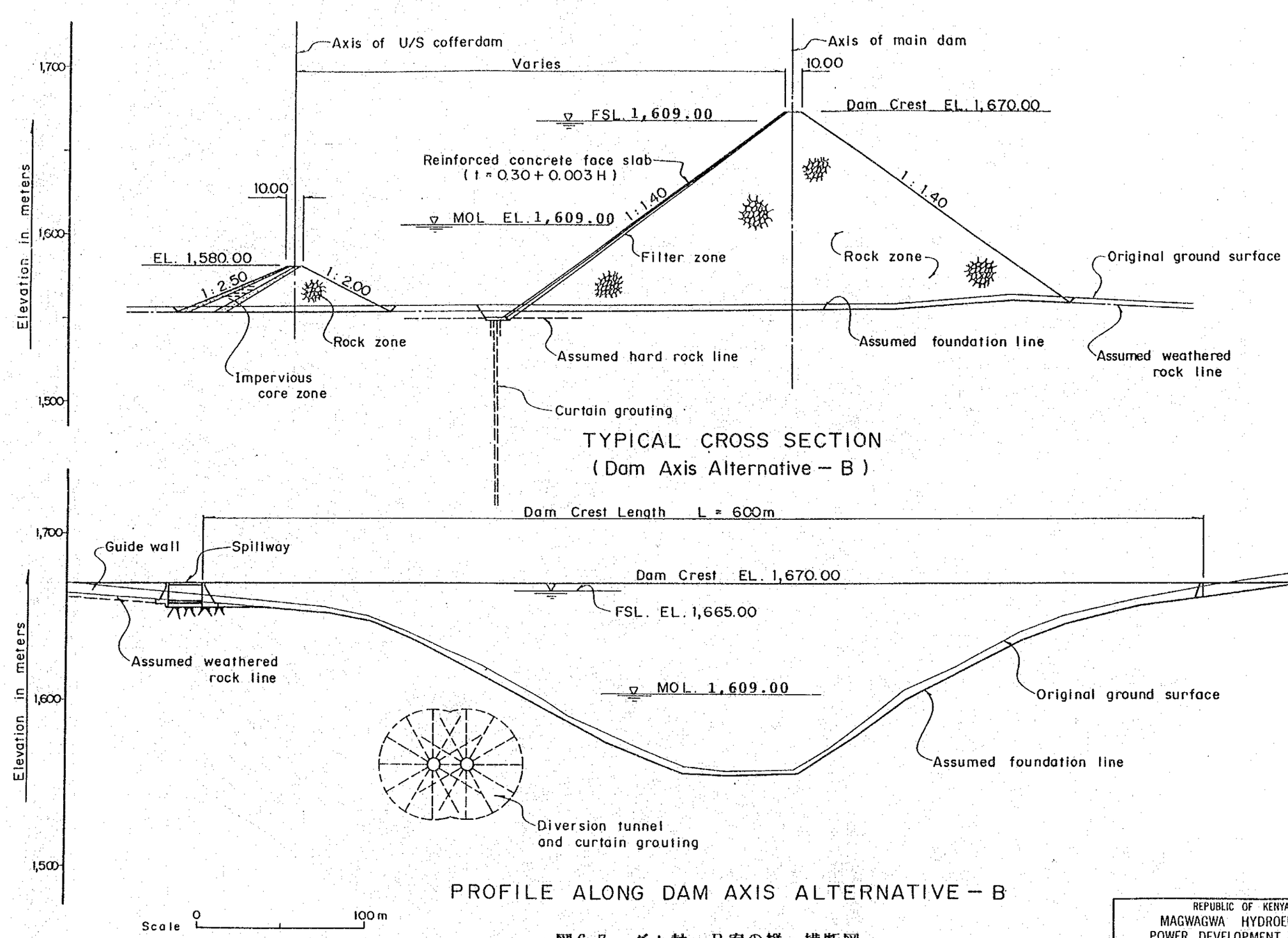


図6.7 ダム軸－B案の縦・横断図

REPUBLIC OF KENYA
MAGWAGWA HYDROELECTRIC
POWER DEVELOPMENT PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY

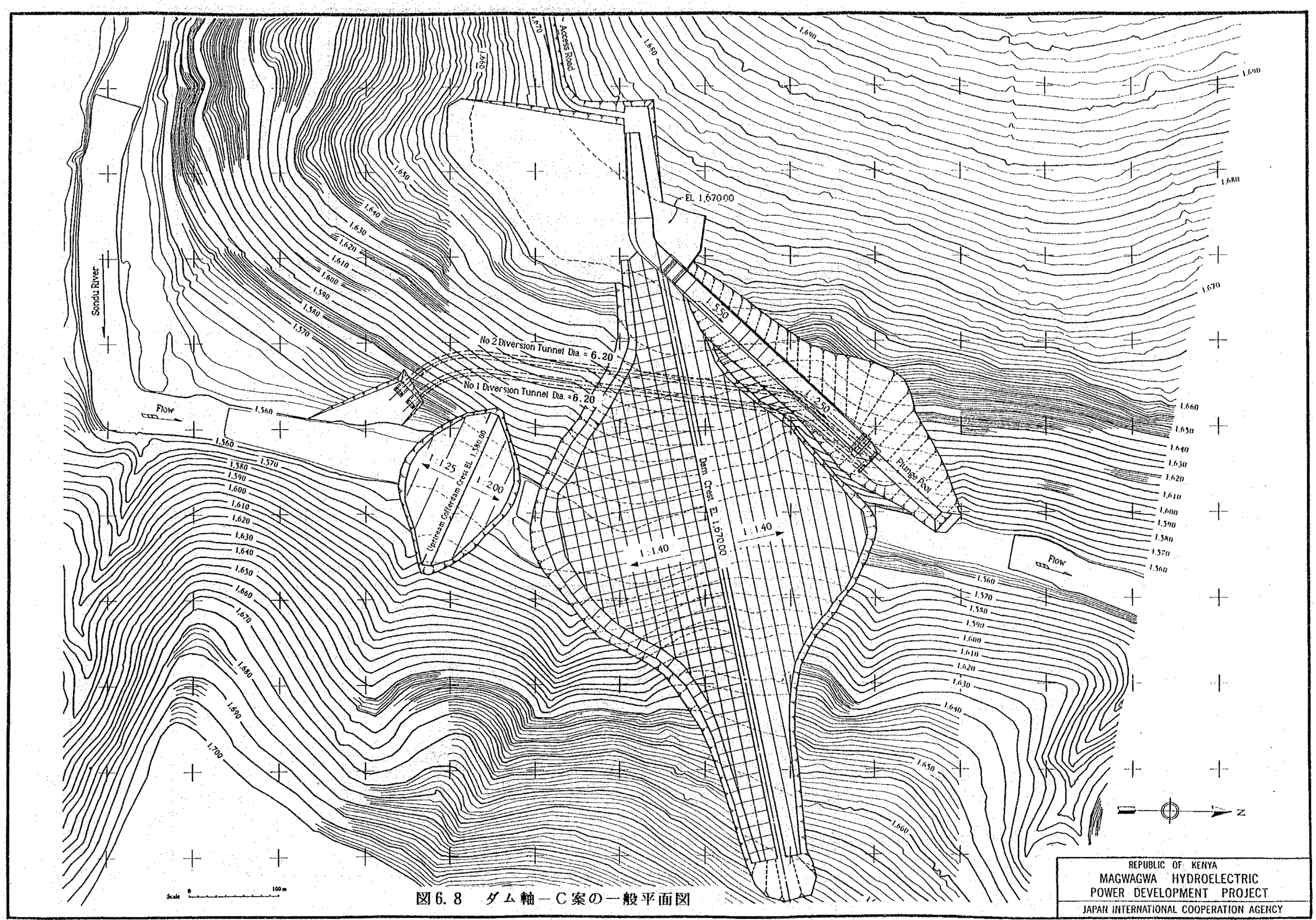
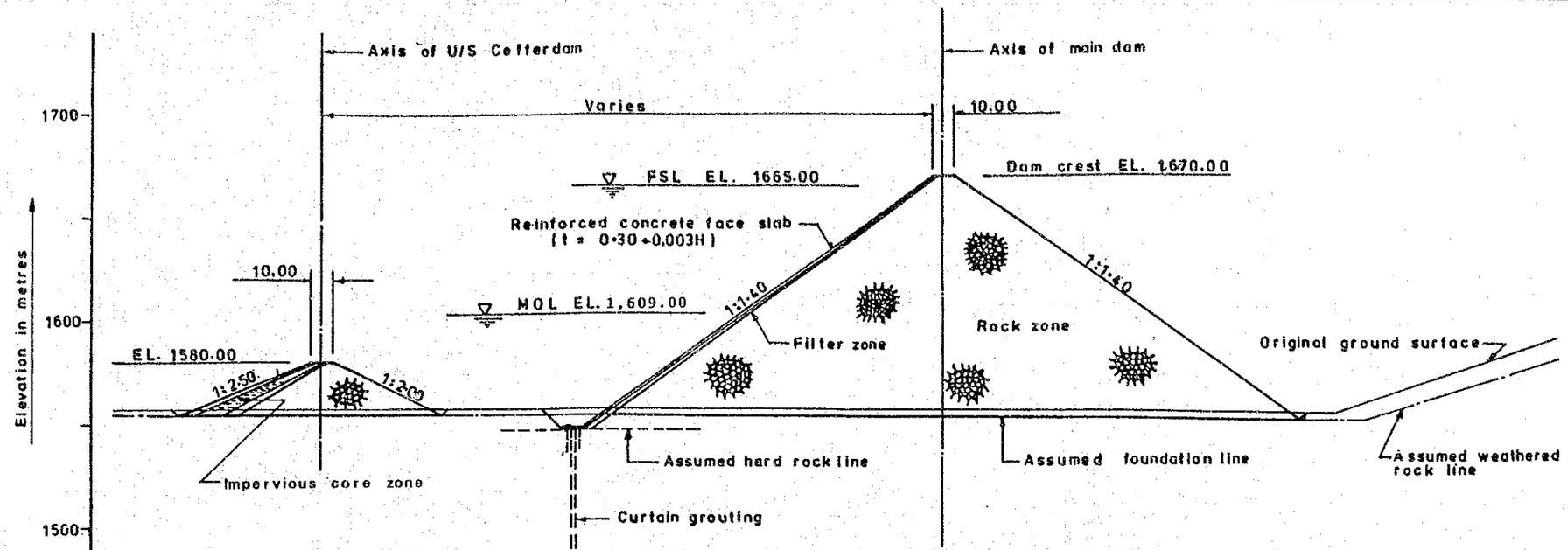
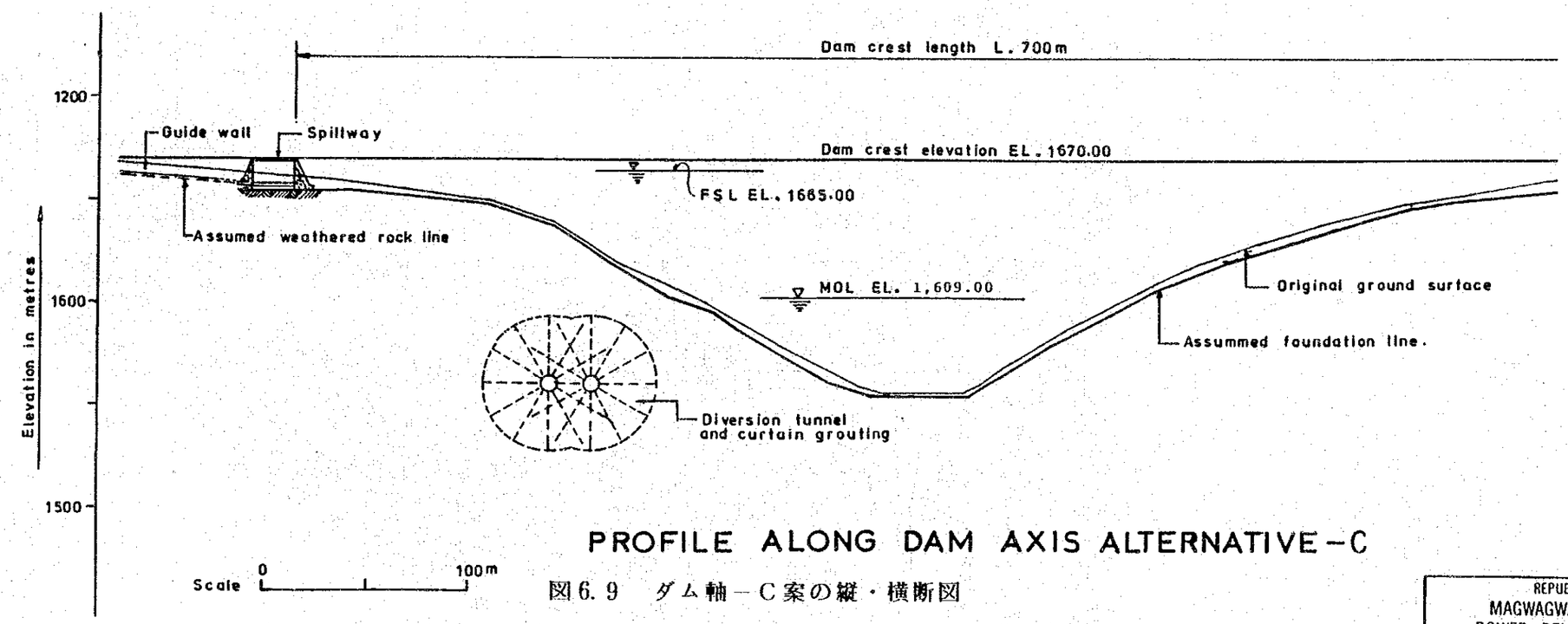


図6.8　ダム軸－C案の一般平面図



TYPICAL CROSS SECTION
(Dam Axis Alternative—C)



PROFILE ALONG DAM AXIS ALTERNATIVE—C

図6.9　ダム軸－C案の縦・横断図

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MAGWAGWA HYDROELECTRIC
POWER DEVELOPMENT PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY

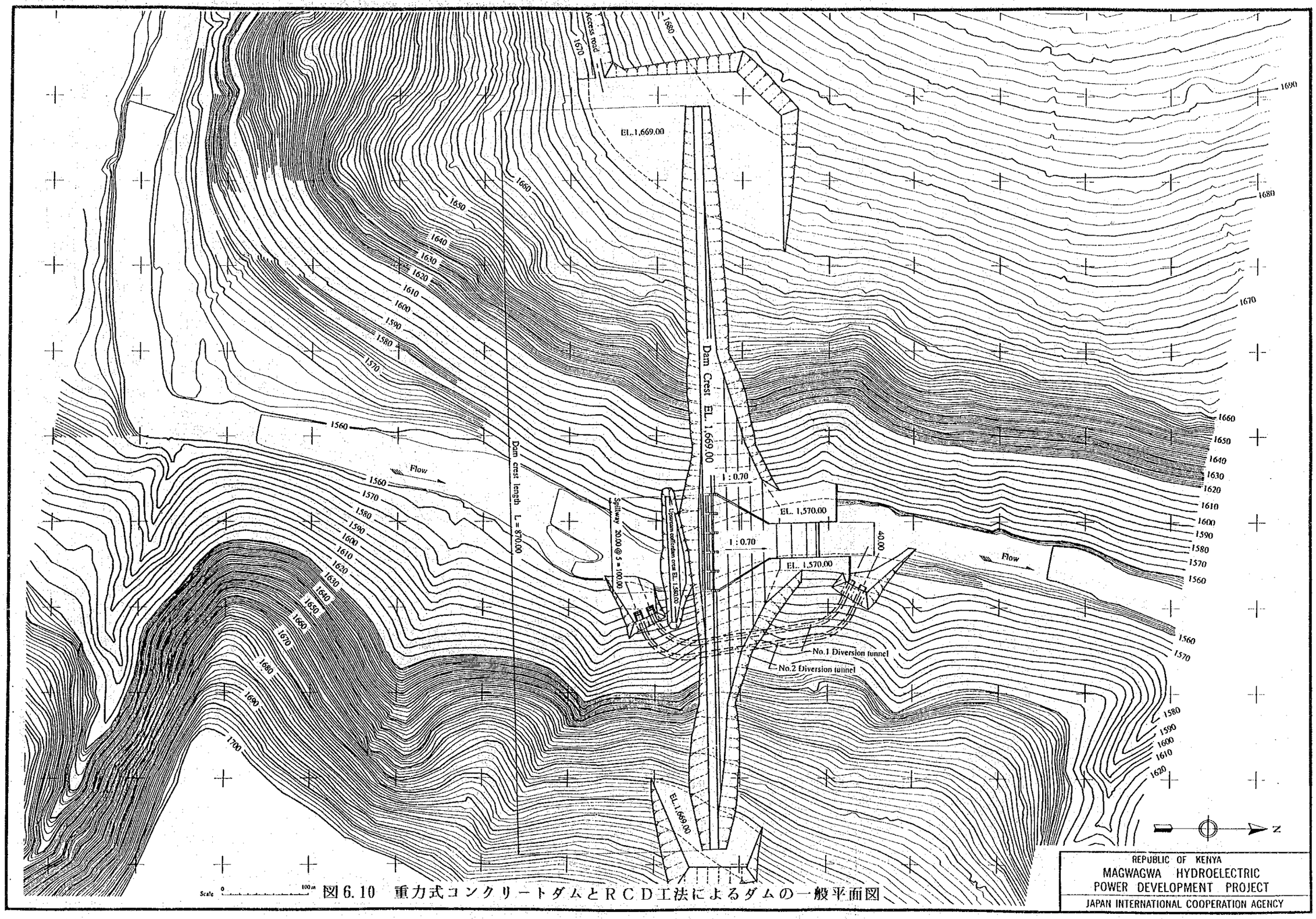

図6.10 重力式コンクリートダムとRCD工法によるダムの一般平面図