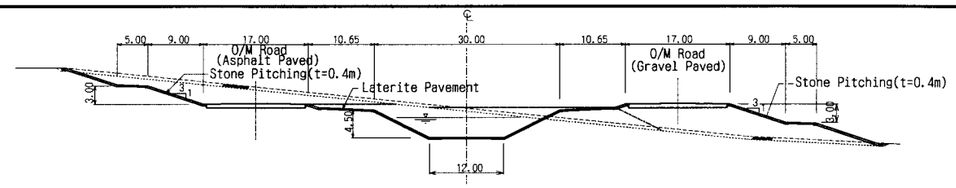
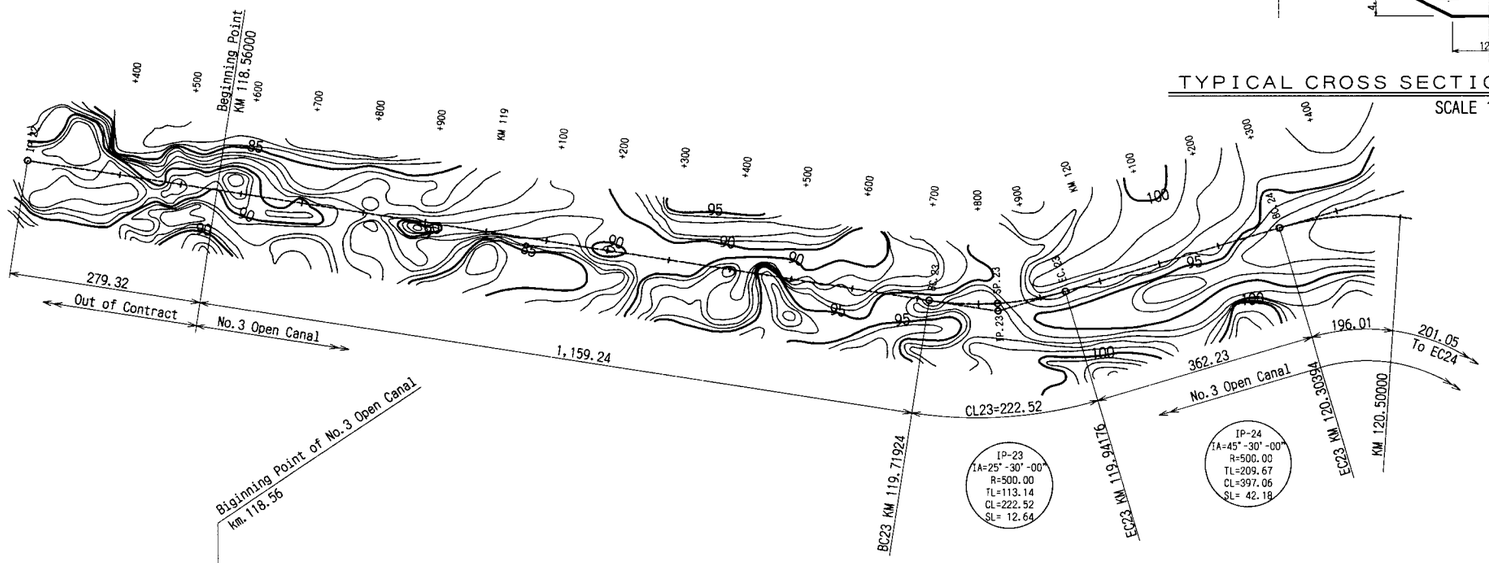


TYPICAL CROSS SECTION OF No.3 OPEN CANAL

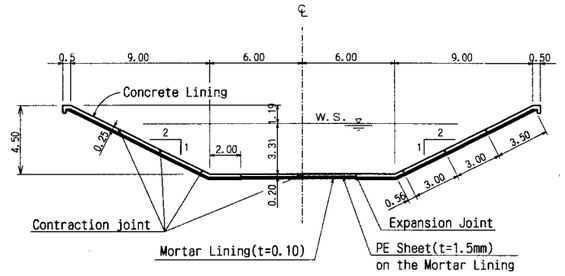
SCALE 1:1,000



NOTES:

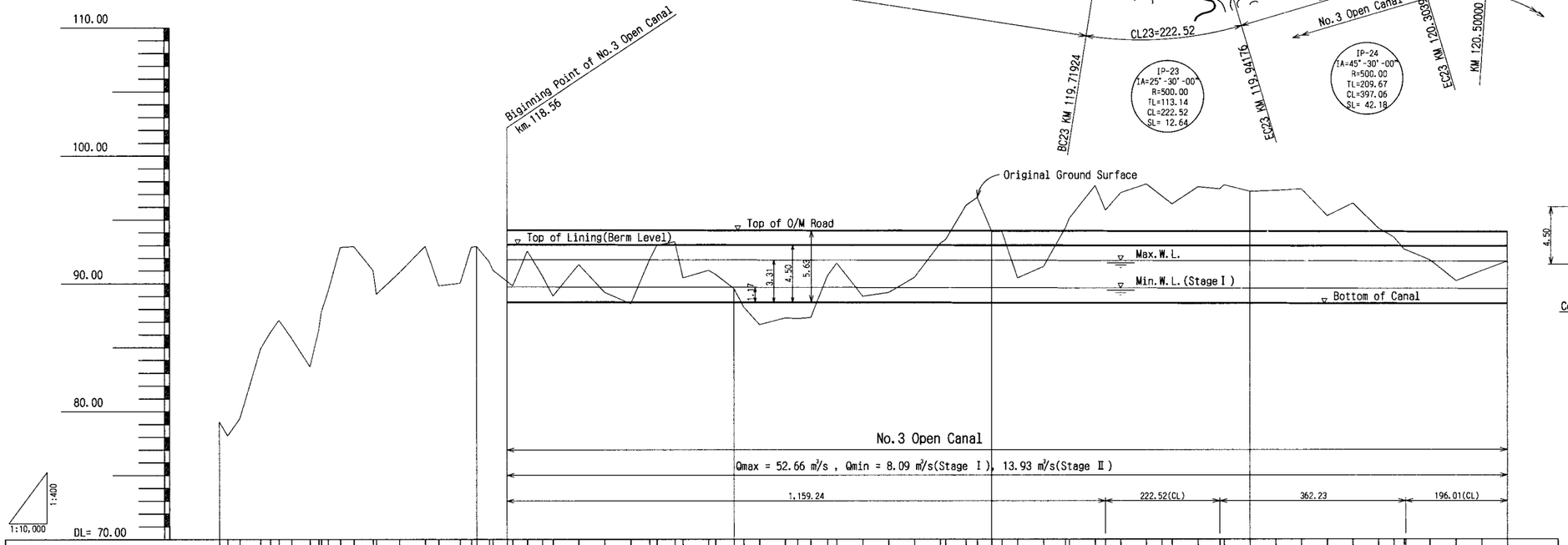
1. The location of curvatures on the canal route are as follows:

Principal peg	Distence (M)
IP-22	118,262.68
BP	118,560.00
BC-23	119,719.24
SP-23	119,830.50
EC-23	119,941.76
BC-24	120,303.99

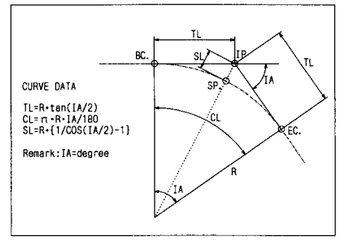


CONCRETE LINED SECTION

SCALE 1:400



DISTANCE (KM)	118.000 118.016 118.040 118.091 118.100 118.117 118.142 118.178 118.200 118.222 118.237 IP-22 118.300 118.306 118.350 118.400 118.426 118.468 118.490 118.500 118.525 118.532 118.571 118.600 118.629 118.650 118.700 118.750 118.800 118.836 118.885 118.900 118.920 118.964 119.000 119.019 119.050 119.100 119.124 119.150 119.182 119.200 119.250 119.300 119.350 119.400 119.410 119.450 119.472 119.500 119.520 119.550 119.600 119.642 119.650 119.700 BC-23 119.750 119.800 SP-23 119.850 119.900 EC-23 119.950 120.000 120.050 120.100 120.150 120.200 120.250 120.280 120.300 BC-24 120.350 120.400 120.450 120.500
ORIGINAL GROUND LEVEL	79.19 78.11 79.46 84.90 86.19 87.14 85.76 88.50 89.22 89.84 92.84 92.92 91.02 89.18 90.87 92.94 89.83 90.04 92.82 91.72 91.05 89.64 92.56 90.59 89.03 91.49 89.33 88.43 91.80 93.80 93.29 90.44 91.04 90.71 89.59 88.15 86.78 87.31 87.26 87.35 90.61 91.59 89.01 89.29 90.47 93.16 93.42 96.10 96.73 94.07 94.06 90.43 91.33 94.34 95.10 97.66 95.72 97.10 97.77 97.05 96.21 97.55 97.38 97.70 97.20 97.27 97.38 95.28 96.27 94.30 93.61 92.54 92.63 91.81 90.19 90.98 91.73
BERM LEVEL	93.07 93.07 93.06 93.05 93.04 93.03 93.03 93.02 93.01 93.00 92.99 92.99 92.98 92.98 92.97 92.96 92.96 92.95 92.95 92.94 92.93 92.93 92.92 92.91
TOP OF O/M ROAD	94.20 94.20 94.19 94.18 94.17 94.16 94.16 94.15 94.14 94.13 94.12 94.12 94.11 94.11 94.10 94.09 94.09 94.08 94.08 94.07 94.06 94.06 94.05 94.04
Max. WATER LEVEL	91.88 91.88 91.87 91.86 91.85 91.84 91.84 91.83 91.82 91.81 91.80 91.80 91.79 91.79 91.78 91.77 91.77 91.76 91.76 91.75 91.74 91.74 91.73 91.72
Min. WATER LEVEL AT STAGE I	89.74 89.74 89.73 89.72 89.71 89.70 89.70 89.69 89.68 89.67 89.66 89.66 89.65 89.65 89.64 89.63 89.63 89.62 89.62 89.61 89.60 89.60 89.59 89.58
BOTTOM WIDTH	12.00 m
BOTTOM GRADE	8 cm/km = 1/12,500
BOTTOM ELEVATION	88.57 88.57 88.56 88.55 88.54 88.53 88.53 88.52 88.51 88.50 88.49 88.49 88.48 88.48 88.47 88.46 88.46 88.45 88.45 88.44 88.43 88.43 88.42 88.41
CURVE ARRANGEMENT	IP-22 IA=30° / IP-23, IA= 25 30' 00", R= 500m, TL= 113.14m, CL= 222.52 m, SL=12.64m / IP-24, IA= 45 30' 00", R= 500m, TL= 209.67m, CL= 397.06 m, SL= 42.18m



THE ARAB REPUBLIC OF EGYPT
MINISTRY OF WATER RESOURCES AND IRRIGATION
NORTH SINAI DEVELOPMENT ORGANIZATION

THE NORTH SINAI INTEGRATED RURAL DEVELOPMENT PROJECT (PHASE III)

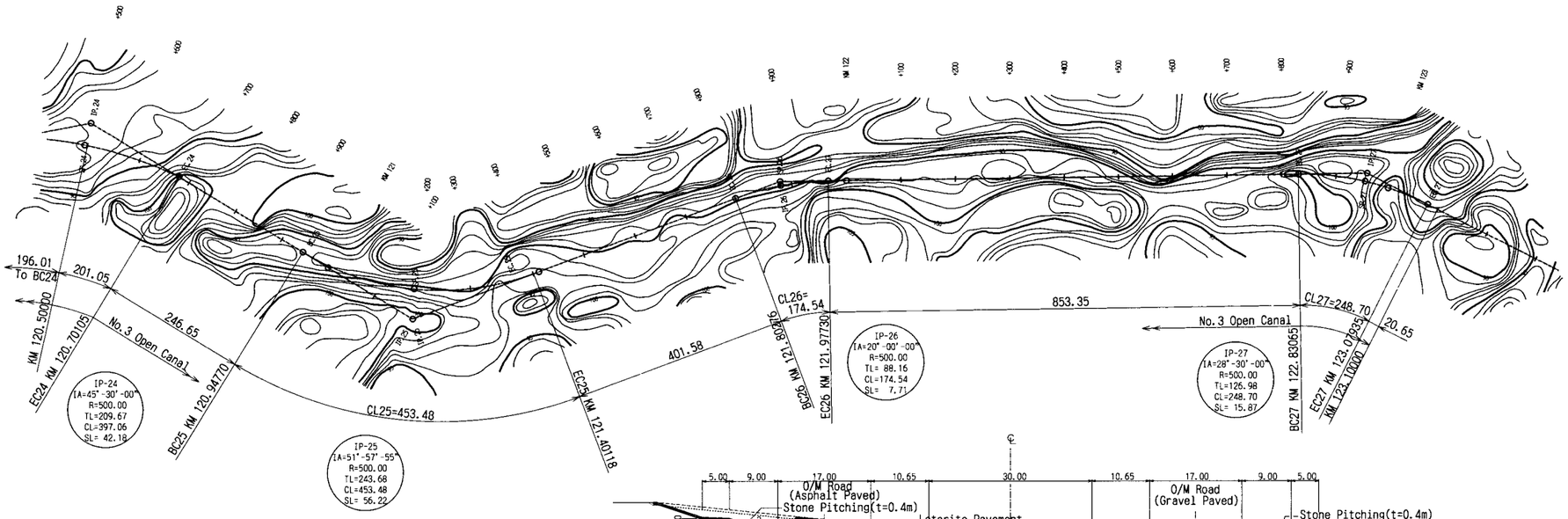
CONVEYANCE SYSTEM OF EL SHEIKH GABER EL SABBAH CANAL
BETWEEN KM 118.560 AND KM 132.500

PLAN AND PROFILE

BETWEEN KM 118.560 AND KM 120.500

JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)
SANYU CONSULTANTS INC, PACIFIC CONSULTANTS INTERNATIOAL

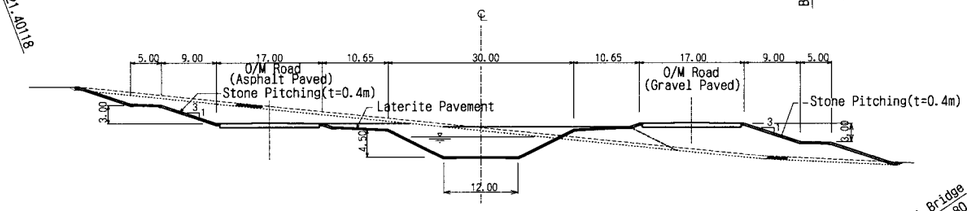
DESIGNED	
TRACED	
CHECKED	
APPROVED	
DRAWING NO.	CCL-301



NOTES:

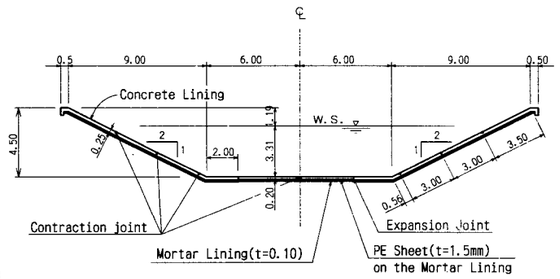
1. The location of curvatures on the canal route are as follows:

Principal peg	Distance (M)
SP-24	120,502.52
EC-24	120,701.05
BC-25	121,947.70
SP-25	121,174.44
EC-25	121,401.18
BC-26	122,802.76
SP-26	120,890.03
EC-26	121,977.30
BC-27	121,803.65
SP-27	121,955.00



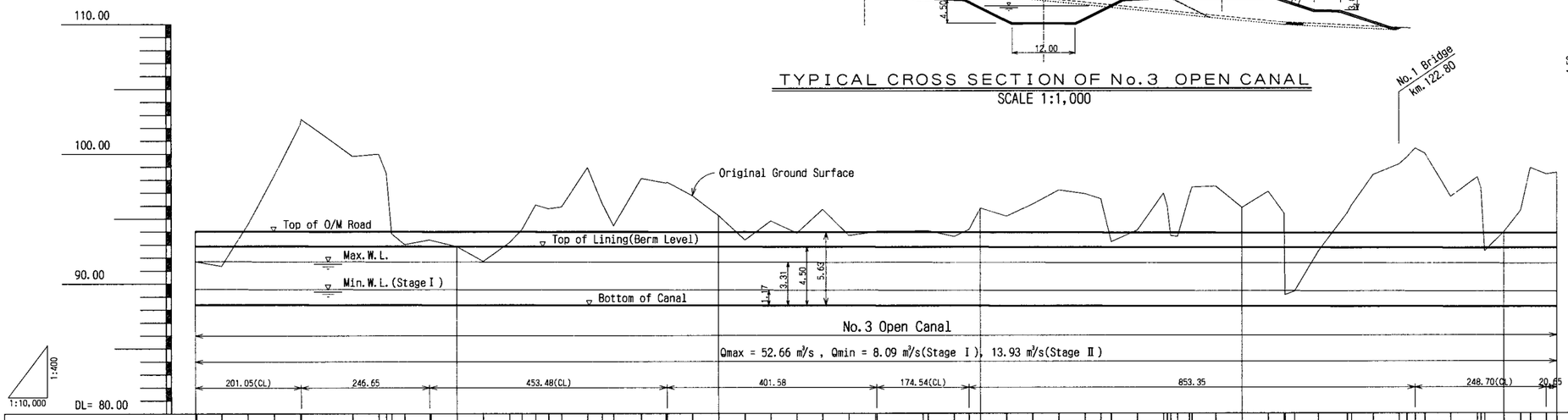
TYPICAL CROSS SECTION OF No.3 OPEN CANAL

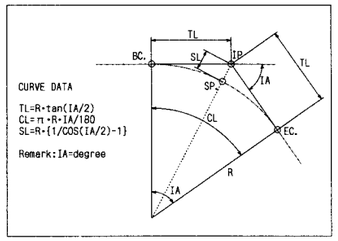
SCALE 1:1,000



CONCRETE LINED SECTION

SCALE 1:400





DISTANCE (KM)	120.500 SP-24, 120.550, 120.600, 120.650, 120.700 EC-24, 120.800, 120.850, 120.862, 120.882, 120.900, BC-25 120.950, 121.000, 121.050, 121.100, 121.124, 121.150, SP-25 121.200, 121.250, 121.278, 121.300, 121.353, 121.400 EC-25, 121.450, 121.500, 121.550, 121.600, 121.650, 121.700, 121.750, 121.800 BC-26, SP-26 121.900, 121.950, EC-26 122.000, 122.050, 122.100, 122.150, 122.200, 122.230, 122.250, 122.300, 122.350, 122.364, 122.371, 122.397, 122.405, 122.450, 122.500, 122.550, 122.580, 122.592, 122.600, 122.645, 122.700, 122.708, 122.750, 122.800, 122.815 BC-27, 122.850, 122.900, 122.938, 122.956, 122.964, 123.000, 123.032, 123.050, EC-27 123.100
ORIGINAL GROUND LEVEL	91.73, 91.71, 91.36, 94.55, 98.33, 102.30, 102.70, 99.83, 100.06, 98.84, 98.83, 93.03, 93.38, 93.34, 92.86, 91.73, 93.16, 94.16, 96.07, 95.79, 95.92, 98.96, 96.19, 94.44, 98.11, 97.75, 97.82, 96.77, 95.24, 93.35, 94.82, 93.87, 95.71, 93.68, 93.08, 94.03, 94.08, 94.05, 93.60, 94.15, 95.81, 95.18, 96.10, 97.19, 96.90, 96.52, 93.20, 94.09, 95.94, 95.87, 93.59, 97.07, 97.41, 97.48, 95.83, 97.08, 95.40, 88.71, 89.38, 92.45, 95.61, 96.01, 98.36, 99.17, 99.70, 100.40, 100.03, 96.66, 98.18, 98.36, 92.86, 93.92, 95.60, 98.89, 98.99, 98.92
BERM LEVEL	92.91, 92.91, 92.90, 92.90, 92.89, 92.88, 92.88, 92.87, 92.87, 92.86, 92.85, 92.84, 92.84, 92.83, 92.83, 92.82, 92.81, 92.81, 92.80, 92.80, 92.79, 92.79, 92.78, 92.77, 92.76, 92.75, 92.75, 92.74, 92.73, 92.73, 92.72, 92.71, 92.71, 92.71
TOP OF O/M ROAD	94.04, 94.04, 94.03, 94.03, 94.02, 94.01, 94.01, 94.00, 94.00, 93.99, 93.98, 93.97, 93.97, 93.96, 93.96, 93.95, 93.94, 93.94, 93.93, 93.93, 93.92, 93.92, 93.91, 93.90, 93.89, 93.88, 93.88, 93.87, 93.86, 93.86, 93.85, 93.84, 93.84, 93.84
Max. WATER LEVEL	91.72, 91.72, 91.71, 91.71, 91.70, 91.69, 91.69, 91.68, 91.68, 91.67, 91.66, 91.65, 91.65, 91.64, 91.64, 91.63, 91.62, 91.62, 91.61, 91.61, 91.60, 91.60, 91.59, 91.58, 91.57, 91.56, 91.56, 91.55, 91.54, 91.54, 91.53, 91.52, 91.52, 91.52
Min. WATER LEVEL AT STAGE I	89.58, 89.58, 89.57, 89.57, 89.56, 89.55, 89.55, 89.54, 89.54, 89.53, 89.52, 89.51, 89.51, 89.50, 89.50, 89.49, 89.48, 89.48, 89.47, 89.47, 89.46, 89.46, 89.45, 89.44, 89.43, 89.42, 89.42, 89.41, 89.40, 89.40, 89.39, 89.38, 89.38, 89.38
BOTTOM WIDTH	12.00 m
BOTTOM GRADE	8 cm/km = 1/12,500
BOTTOM ELEVATION	88.41, 88.41, 88.40, 88.40, 88.39, 88.38, 88.38, 88.37, 88.37, 88.36, 88.35, 88.34, 88.34, 88.33, 88.33, 88.32, 88.31, 88.31, 88.30, 88.30, 88.29, 88.29, 88.28, 88.27, 88.26, 88.25, 88.25, 88.24, 88.23, 88.23, 88.22, 88.21, 88.21, 88.21
CURVE ARRANGEMENT	IP-24, IA= 45 30' 00", R= 500m, TL= 209.67m, CL= 397.06 m, SL=42.18m; IP-25, IA= 51 57' 55", R= 500m, TL= 243.68m, CL= 453.48 m, SL=56.22 m; IP-26, IA= 20 00' 00", R= 500m, TL= 88.16m, CL= 174.54 m, SL=7.71m; IP-27, IA= 28 30' 00", R= 500m, TL= 126.98m, CL= 248.70 m, SL=15.87m

THE ARAB REPUBLIC OF EGYPT
MINISTRY OF WATER RESOURCES AND IRRIGATION
NORTH SINAI DEVELOPMENT ORGANIZATION

THE NORTH SINAI INTEGRATED RURAL DEVELOPMENT PROJECT (PHASE Ⅲ)

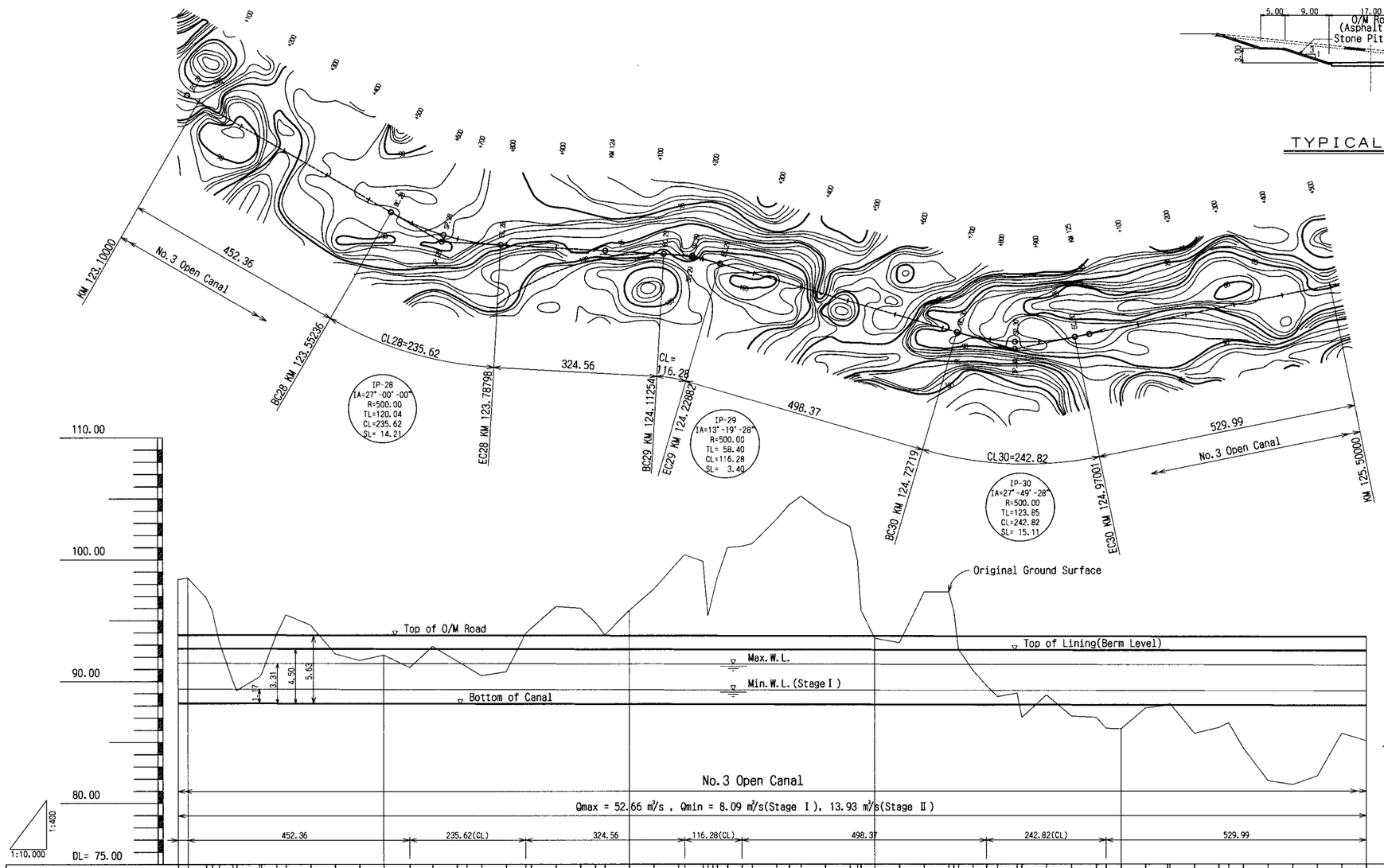
CONVEYANCE SYSTEM OF EL SHEIKH GABER EL SABBAH CANAL
BETWEEN KM 118.560 AND KM 132.500

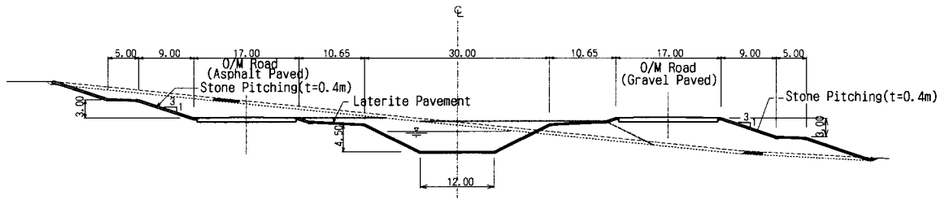
PLAN AND PROFILE

BETWEEN KM 120.500 AND KM 123.100

JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)
SANYU CONSULTANTS INC, PACIFIC CONSULTANTS INTERNATIOAL

DESIGNED	
TRACED	
CHECKED	
APPROVED	
DRAWING NO.	CCL-302





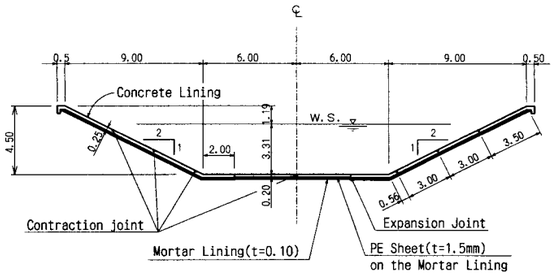
TYPICAL CROSS SECTION OF No.3 OPEN CANAL

SCALE 1:1,000

NOTES:

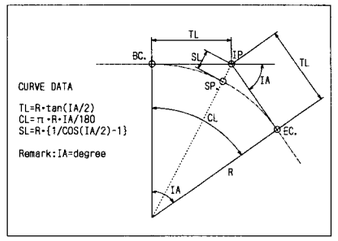
1. The location of curvatures on the canal route are as follows:

Principal peg	Distance (M)
EC-27	123,079.35
BC-28	123,552.36
SP-28	123,670.17
EC-28	123,787.98
BC-29	124,112.54
SP-29	124,170.68
EC-29	124,228.82
BC-30	124,727.19
SP-30	124,848.60
EC-30	124,970.01



CONCRETE LINED SECTION

SCALE 1:400



DISTANCE (KM)	EC-27 123.100, 123.138, 123.164, 123.200, 123.245, 123.250, 123.281, 123.300, 123.350, 123.400, 123.402, 123.450, 123.500, BC-28, 123.600, 123.650, SP-28, 123.700, 123.750, EC-28, 123.800, 123.850, 123.900, 123.930, 123.950, 124.000, 124.050, 124.100, BC-29, 124.150, 124.170, 124.200, 124.250, EC-29, 124.300, 124.326, 124.350, 124.400, 124.450, 124.472, 124.500, 124.550, 124.600, 124.650, 124.700, BC-30, 124.750, 124.800, 124.850, SP-30, 124.900, 124.950, EC-30, 125.000, 125.050, 125.100, 125.150, 125.200, 125.250, 125.300, 125.350, 125.400, 125.450, 125.500
ORIGINAL GROUND LEVEL	98.39, 98.52, 96.88, 93.34, 90.09, 89.27, 90.38, 90.57, 93.86, 95.48, 94.63, 92.27, 91.74, 92.18, 91.14, 92.88, 91.69, 91.90, 90.48, 90.81, 93.82, 94.36, 96.16, 96.01, 94.87, 93.81, 95.84, 97.58, 98.85, 100.47, 99.87, 97.75, 98.50, 101.00, 101.13, 101.36, 103.39, 104.60, 105.25, 103.76, 102.76, 99.61, 95.60, 93.53, 93.17, 97.34, 97.35, 95.47, 92.62, 90.91, 89.63, 88.74, 88.87, 87.12, 87.03, 86.13, 86.10, 87.81, 88.02, 88.16, 85.73, 86.20, 86.58, 84.50, 81.84, 81.52, 82.24, 85.73, 85.12
BERM LEVEL	92.71, 92.71, 92.70, 92.69, 92.68, 92.67, 92.67, 92.67, 92.66, 92.65, 92.65, 92.64, 92.63, 92.63, 92.62, 92.62, 92.61, 92.60, 92.59, 92.59, 92.58, 92.58, 92.57, 92.56, 92.56, 92.55, 92.55, 92.54, 92.53, 92.52, 92.51
TOP OF O/M ROAD	93.84, 93.84, 93.83, 93.82, 93.81, 93.80, 93.80, 93.80, 93.79, 93.78, 93.78, 93.77, 93.76, 93.76, 93.76, 93.75, 93.75, 93.74, 93.73, 93.72, 93.72, 93.71, 93.71, 93.70, 93.69, 93.69, 93.68, 93.68, 93.67, 93.66, 93.65, 93.64
Max. WATER LEVEL	91.52, 91.52, 91.51, 91.50, 91.49, 91.48, 91.48, 91.48, 91.47, 91.46, 91.46, 91.45, 91.44, 91.44, 91.44, 91.43, 91.43, 91.42, 91.41, 91.40, 91.40, 91.39, 91.39, 91.38, 91.37, 91.37, 91.36, 91.36, 91.35, 91.34, 91.33, 91.32
Min. WATER LEVEL AT STAGE I	89.38, 89.38, 89.37, 89.36, 89.35, 89.34, 89.34, 89.34, 89.33, 89.32, 89.32, 89.31, 89.30, 89.30, 89.30, 89.29, 89.29, 89.28, 89.27, 89.26, 89.26, 89.25, 89.25, 89.24, 89.23, 89.23, 89.22, 89.22, 89.21, 89.20, 89.19, 89.18
BOTTOM WIDTH	12.00 m
BOTTOM GRADE	8 cm/km = 1/12,500
BOTTOM ELEVATION	88.21, 88.21, 88.20, 88.19, 88.18, 88.17, 88.17, 88.17, 88.16, 88.15, 88.15, 88.14, 88.13, 88.13, 88.13, 88.12, 88.12, 88.11, 88.10, 88.09, 88.09, 88.08, 88.08, 88.07, 88.06, 88.06, 88.05, 88.05, 88.04, 88.03, 88.02, 88.01
CURVE ARRANGEMENT	IP-28, IA= 27 00' 00", R= 500m, TL= 120.04m, CL= 235.62 m, SL=14.21m; IP-29, IA= 13 19' 28", R= 500m, TL= 58.40m, CL= 116.28 m, SL=3.40m; IP-30, IA= 27 49' 28", R= 500m, TL= 123.85m, CL= 242.82 m, SL=15.11m

THE ARAB REPUBLIC OF EGYPT
MINISTRY OF WATER RESOURCES AND IRRIGATION
NORTH SINAI DEVELOPMENT ORGANIZATION

THE NORTH SINAI INTEGRATED RURAL DEVELOPMENT PROJECT (PHASE Ⅲ)

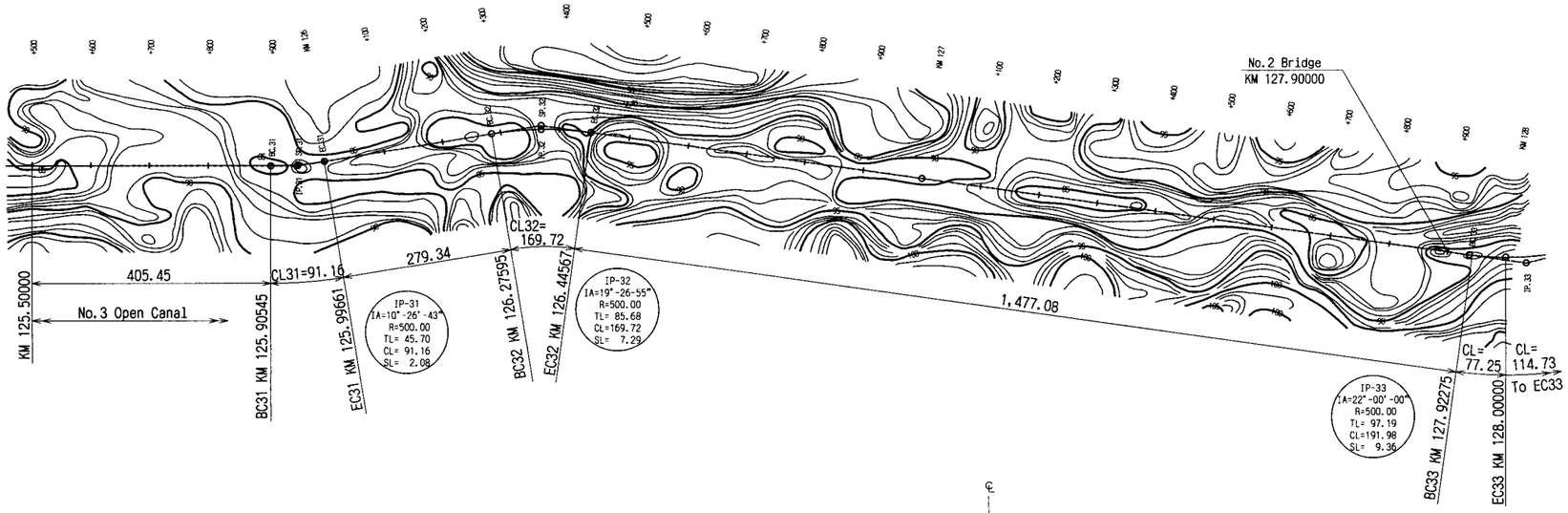
CONVEYANCE SYSTEM OF EL SHEIKH GABER EL SABBAH CANAL
BETWEEN KM 118.560 AND KM 132.500

PLAN AND PROFILE

BETWEEN KM 123.100 AND KM 125.500

JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)
SANYU CONSULTANTS INC, PACIFIC CONSULTANTS INTERNATIOAL

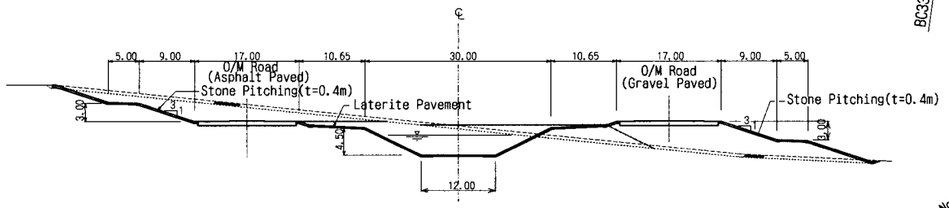
DESIGNED	
TRACED	
CHECKED	
APPROVED	
DRAWING NO.	CCL-303



NOTES:

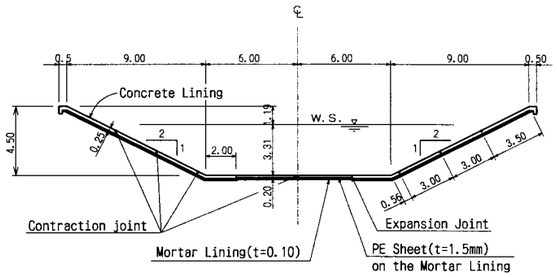
1. The location of curvatures on the canal route are as follows:

Principal peg	Distance (M)
BC-31	125,905.45
SP-31	125,951.03
EC-31	125,996.61
BC-32	126,275.95
SP-32	126,360.81
EC-32	126,445.67
BC-33	127,922.75



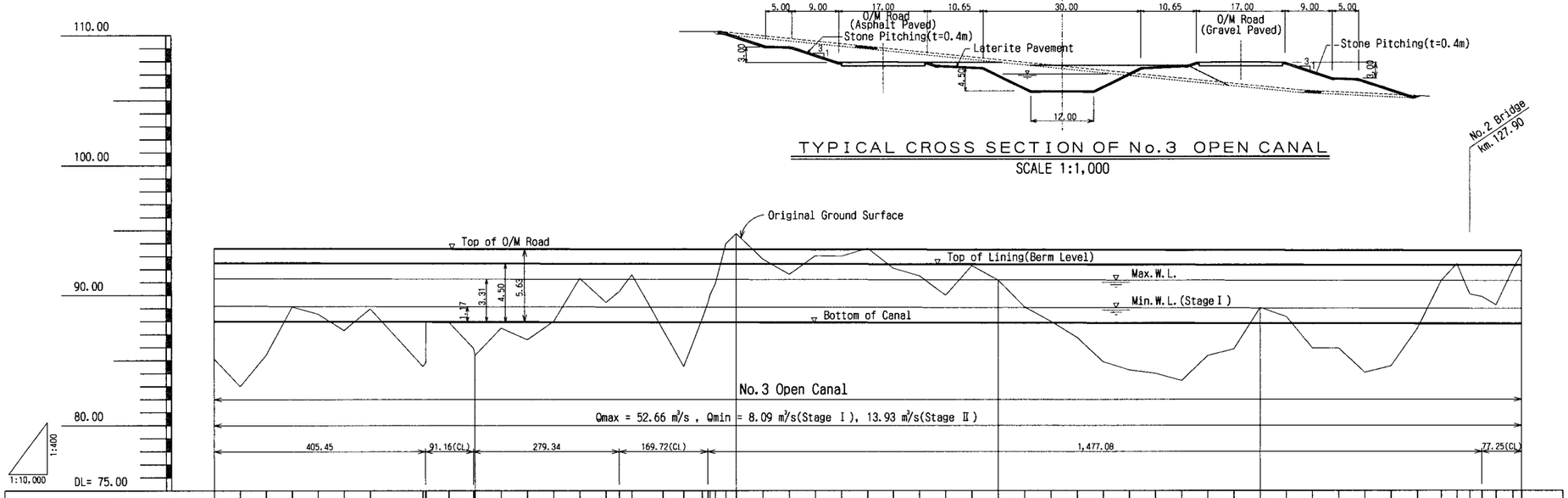
TYPICAL CROSS SECTION OF No.3 OPEN CANAL

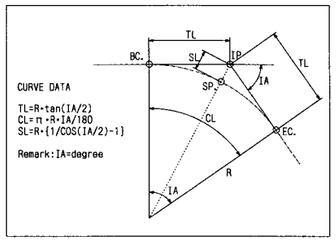
SCALE 1:1,000



CONCRETE LINED SECTION

SCALE 1:400





DISTANCE (KM)	125.500, 125.550, 125.600, 125.650, 125.700, 125.750, 125.800, 125.900, BC-31, 125.906, SP-31, EC-31, 126.000, 126.050, 126.100, 126.150, 126.200, 126.250, BC-32, 126.300, SP-32, 126.400, 126.435, 126.450, 126.465, 126.480, 126.500, 126.550, 126.600, 126.650, 126.700, 126.750, 126.800, 126.850, 126.900, 126.950, 127.000, 127.050, 127.100, 127.150, 127.200, 127.250, 127.300, 127.350, 127.400, 127.450, 127.500, 127.550, 127.600, 127.650, 127.700, 127.750, 127.800, 127.845, 127.875, 127.900, BC-33, 127.950, 127.983, 128.000
ORIGINAL GROUND LEVEL	85.12, 83.01, 85.42, 89.12, 88.57, 87.32, 88.98, 84.56, 84.81, 84.94, 87.95, 85.54, 85.47, 87.50, 86.60, 88.01, 91.33, 89.47, 90.31, 91.62, 87.78, 84.54, 88.20, 88.07, 88.09, 88.09, 94.76, 92.80, 91.64, 93.05, 93.03, 93.63, 92.09, 91.52, 90.01, 92.30, 91.18, 89.09, 88.00, 86.75, 84.89, 84.26, 84.01, 83.45, 85.36, 85.87, 89.06, 88.34, 85.95, 85.92, 84.08, 84.57, 87.46, 91.12, 92.43, 90.07, 89.69, 89.24, 92.02, 93.18
BERM LEVEL	92.51, 92.51, 92.50, 92.49, 92.48, 92.48, 92.48, 92.47, 92.47, 92.46, 92.45, 92.45, 92.44, 92.44, 92.43, 92.43, 92.42, 92.41, 92.40, 92.39, 92.39, 92.38, 92.37, 92.36, 92.35, 92.35, 92.34, 92.33, 92.32, 92.32, 92.31
TOP OF O/M ROAD	93.64, 93.64, 93.63, 93.62, 93.61, 93.61, 93.61, 93.60, 93.60, 93.59, 93.58, 93.58, 93.57, 93.57, 93.56, 93.56, 93.55, 93.54, 93.53, 93.52, 93.52, 93.51, 93.50, 93.49, 93.48, 93.48, 93.47, 93.46, 93.45, 93.45, 93.44
Max. WATER LEVEL	91.32, 91.32, 91.31, 91.30, 91.29, 91.29, 91.28, 91.28, 91.27, 91.26, 91.26, 91.25, 91.25, 91.24, 91.24, 91.23, 91.22, 91.21, 91.20, 91.20, 91.19, 91.18, 91.17, 91.16, 91.16, 91.15, 91.14, 91.13, 91.13, 91.12
Min. WATER LEVEL AT STAGE I	89.18, 89.18, 89.17, 89.16, 89.15, 89.15, 89.15, 89.14, 89.14, 89.13, 89.12, 89.12, 89.11, 89.11, 89.10, 89.10, 89.09, 89.08, 89.07, 89.06, 89.06, 89.05, 89.04, 89.03, 89.02, 89.02, 89.01, 89.00, 88.99, 88.99, 88.98
BOTTOM WIDTH	12.00 m
BOTTOM GRADE	8 cm/km = 1/12,500
BOTTOM ELEVATION	88.01, 88.01, 88.00, 87.99, 87.98, 87.98, 87.98, 87.97, 87.97, 87.96, 87.95, 87.95, 87.94, 87.94, 87.93, 87.93, 87.92, 87.91, 87.90, 87.89, 87.89, 87.88, 87.87, 87.86, 87.85, 87.85, 87.84, 87.83, 87.82, 87.82, 87.81
CURVE ARRANGEMENT	IP31, IA=10 26' 43", R=500, TL=45.70m, CL=91.16m, SL=2.08m; IP32, IA=19 26' 55", R=500, TL=85.68m, CL=169.72m, SL=7.29m; IP33, IA=22° 00' 00", R=500, TL=97.19m, CL=191.98m, SL=9.36m

THE ARAB REPUBLIC OF EGYPT
MINISTRY OF WATER RESOURCES AND IRRIGATION
NORTH SINAI DEVELOPMENT ORGANIZATION

THE NORTH SINAI INTEGRATED RURAL DEVELOPMENT PROJECT (PHASE Ⅲ)

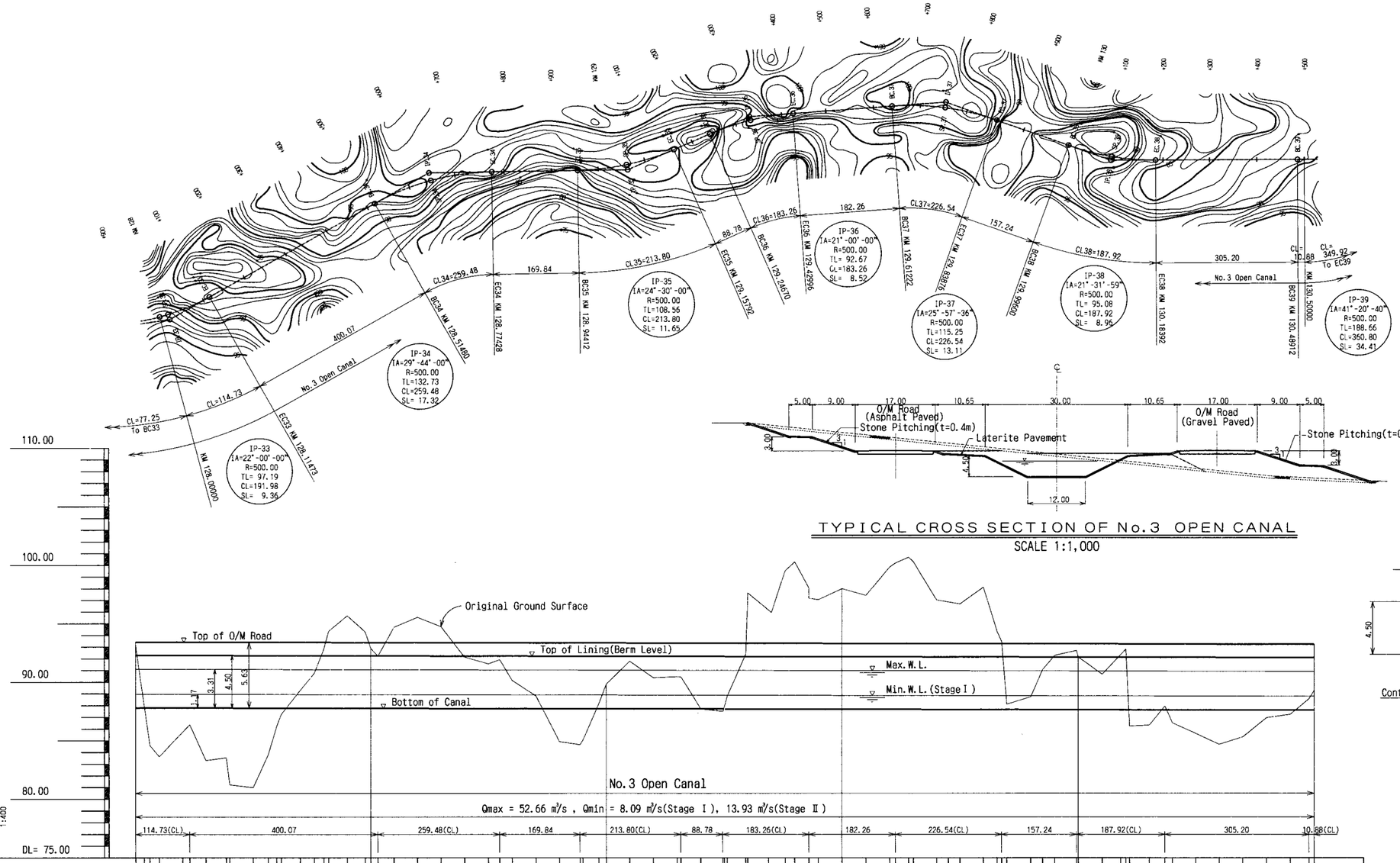
CONVEYANCE SYSTEM OF EL SHEIKH GABER EL SABBAH CANAL
BETWEEN KM 118.560 AND KM 132.500

PLAN AND PROFILE

BETWEEN KM 125.500 AND KM 128.000

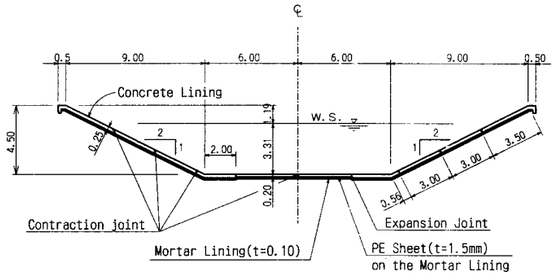
JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)
SANYU CONSULTANTS INC, PACIFIC CONSULTANTS INTERNATIOAL

DESIGNED	
TRACED	
CHECKED	
APPROVED	
DRAWING NO.	CCL-304



TYPICAL CROSS SECTION OF No.3 OPEN CANAL

SCALE 1:1,000



CONCRETE LINED SECTION

SCALE 1:400

Original Ground Surface

Top of O/M Road

Top of Lining(Berm Level)

Max. W.L.

Min. W.L. (Stage I)

Bottom of Canal

1.17 3.31 4.50 5.63

No.3 Open Canal

Qmax = 52.66 m³/s , Qmin = 8.09 m³/s(Stage I), 13.93 m³/s(Stage II)

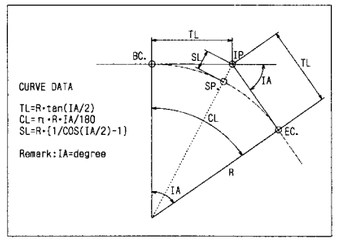
114.73(CL) 400.07 259.48(CL) 169.84 213.80(CL) 88.78 183.26(CL) 182.26 226.54(CL) 157.24 187.92(CL) 305.20 10.88(CL)

DISTANCE (KM)	128.000 SP-33 128.030 128.050 128.100 EC-33 128.150 128.193 128.200 128.250 128.282 128.300 128.310 128.350 128.380 128.400 128.410 128.450 128.498 128.500 BC-34 128.550 128.600 SP-34 128.700 128.750 EC-34 128.800 128.850 128.900 BC-35 128.950 128.984 129.000 SP-35 129.150 129.200 EC-35 129.250 BC-36 129.256 129.286 129.300 SP-36 129.400 129.550 129.600 BC-37 129.650 129.700 SP-37 129.750 129.800 EC-37 129.850 129.900 129.925 129.950 BC-38 130.000 130.050 SP-38 130.100 130.108 130.150 EC-38 130.200 130.250 130.300 130.350 130.400 130.450 BC-39 130.500
ORIGINAL GROUND LEVEL	93.18 86.60 84.60 83.54 86.74 88.37 83.32 80.56 81.23 81.00 88.79 87.24 89.31 90.79 92.83 94.98 95.70 94.30 92.30 92.24 94.71 95.56 94.77 92.16 91.59 91.93 90.16 88.82 84.92 84.66 85.04 88.65 89.85 91.80 90.40 90.48 90.47 87.71 87.50 87.92 88.78 92.41 92.64 95.97 99.55 100.39 98.05 97.06 98.02 97.44 92.87 100.20 100.30 97.04 96.69 96.69 98.14 92.45 88.11 86.73 91.07 92.29 92.72 92.14 90.68 92.68 90.83 86.24 86.33 87.95 86.52 85.62 84.69 85.31 86.96 87.25 88.56 89.30
BERM LEVEL	92.31 92.31 92.31 92.30 92.29 92.28 92.27 92.27 92.27 92.26 92.25 92.25 92.24 92.24 92.23 92.23 92.22 92.22 92.22 92.21 92.20 92.20 92.19 92.19 92.19 92.18 92.17 92.17 92.16 92.16 92.15 92.15 92.14 92.14 92.13 92.12 92.12 92.11
TOP OF O/M ROAD	93.44 93.44 93.44 93.43 93.42 93.41 93.40 93.40 93.40 93.39 93.38 93.38 93.37 93.37 93.36 93.36 93.35 93.35 93.35 93.34 93.33 93.33 93.32 93.32 93.32 93.31 93.30 93.30 93.29 93.29 93.28 93.28 93.27 93.27 93.26 93.25 93.25 93.24
Max. WATER LEVEL	91.12 91.12 91.12 91.11 91.10 91.09 91.08 91.08 91.08 91.07 91.06 91.06 91.05 91.05 91.04 91.04 91.03 91.03 91.03 91.02 91.01 91.01 91.00 91.00 91.00 90.99 90.98 90.98 90.97 90.97 90.96 90.96 90.95 90.95 90.94 90.93 90.93 90.92
Min. WATER LEVEL AT STAGE I	88.98 88.98 88.98 88.97 88.96 88.95 88.94 88.94 88.94 88.93 88.92 88.92 88.91 88.91 88.90 88.90 88.89 88.89 88.89 88.88 88.87 88.87 88.86 88.86 88.86 88.85 88.84 88.84 88.83 88.83 88.82 88.82 88.81 88.81 88.80 88.79 88.79 88.78
BOTTOM WIDTH	12.00 m
BOTTOM GRADE	8 cm/km = 1/12,500
BOTTOM ELEVATION	87.81 87.81 87.81 87.80 87.79 87.78 87.77 87.77 87.77 87.76 87.75 87.75 87.74 87.74 87.73 87.73 87.72 87.72 87.72 87.71 87.70 87.70 87.69 87.69 87.69 87.68 87.67 87.67 87.66 87.66 87.65 87.65 87.64 87.64 87.63 87.62 87.62 87.61
CURVE ARRANGEMENT	IP33, IA=22°00'00", R=500, TL=97.19m, CL=191.98m, SL=9.36m; IP34, IA=29°44'00", R=500, TL=132.73m, CL=259.48m, SL=17.32m; IP35, IA=24°30'00", R=500, TL=108.56m, CL=213.80m, SL=11.65m; IP36, IA=21°00'00", R=500, TL=92.67m, CL=183.26m, SL=8.52m; IP37, IA=25°57'36", R=500, TL=115.25m, CL=226.54m, SL=13.11m; IP38, IA=21°31'59", R=500, TL=95.08m, CL=187.92m, SL=8.96m; IP39, IA=41°20'40", R=500, TL=188.66m, CL=360.80m, SL=34.41m

NOTES:

1. The location of curvatures on the canal route are as follows:

Principal peg	Distance (M)
SP-33	128,018.74
EC-33	128,114.73
BC-34	128,514.80
SP-34	128,644.54
EC-34	128,774.28
BC-35	128,944.12
SP-35	129,051.02
EC-35	129,157.92
BC-36	129,246.70
SP-36	129,338.33
EC-36	129,429.96
BC-37	129,612.22
SP-37	129,725.49
EC-37	129,838.76
BC-38	129,996.00
SP-38	130,089.96
EC-38	130,183.96
BC-39	130,489.12



THE ARAB REPUBLIC OF EGYPT
MINISTRY OF WATER RESOURCES AND IRRIGATION
NORTH SINAI DEVELOPMENT ORGANIZATION

THE NORTH SINAI INTEGRATED RURAL DEVELOPMENT PROJECT (PHASE III)

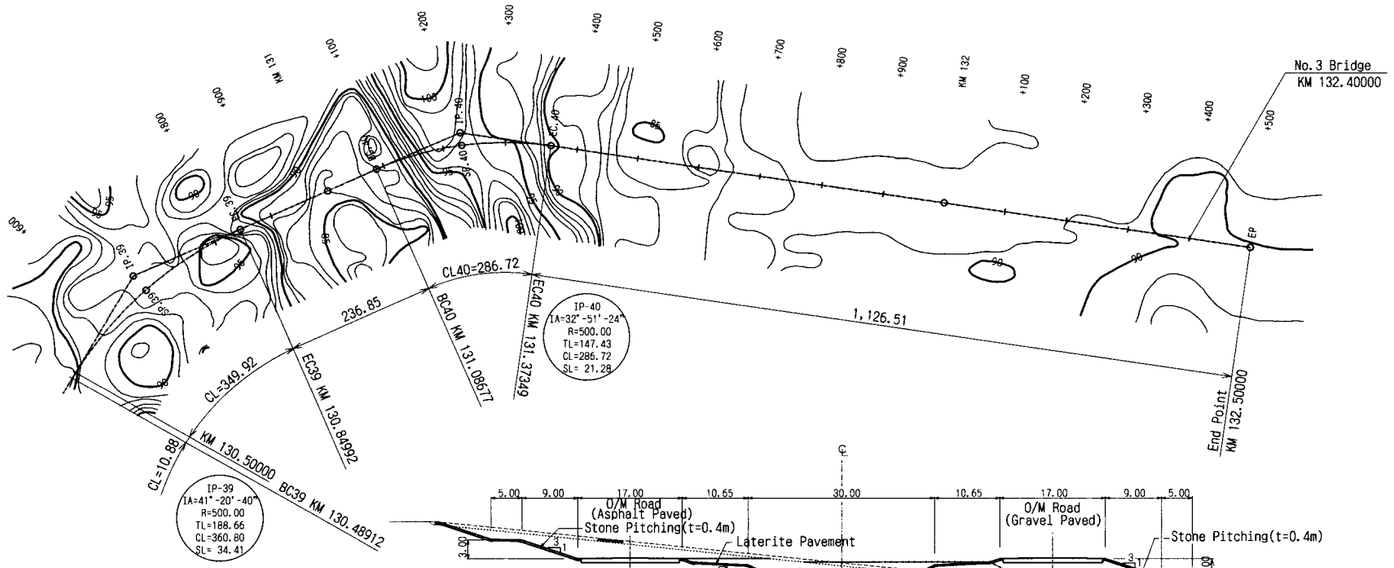
CONVEYANCE SYSTEM OF EL SHEIKH GABER EL SABBAH CANAL BETWEEN KM 118.560 AND KM 132.500

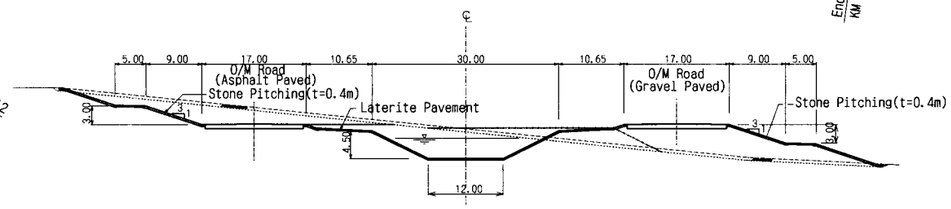
PLAN AND PROFILE

BETWEEN KM 128.000 AND KM 130.500

JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)
SANYU CONSULTANTS INC, PACIFIC CONSULTANTS INTERNATIOAL

DESIGNED	
TRACED	
CHECKED	
APPROVED	
DRAWING NO.	CCL-305





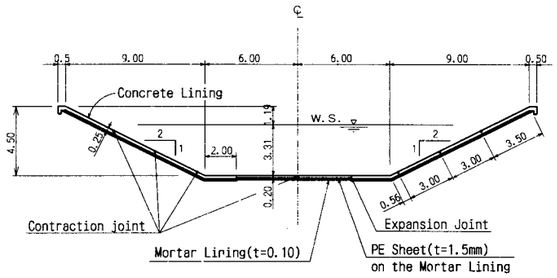
TYPICAL CROSS SECTION OF No.3 OPEN CANAL

SCALE 1:1,000

NOTES:

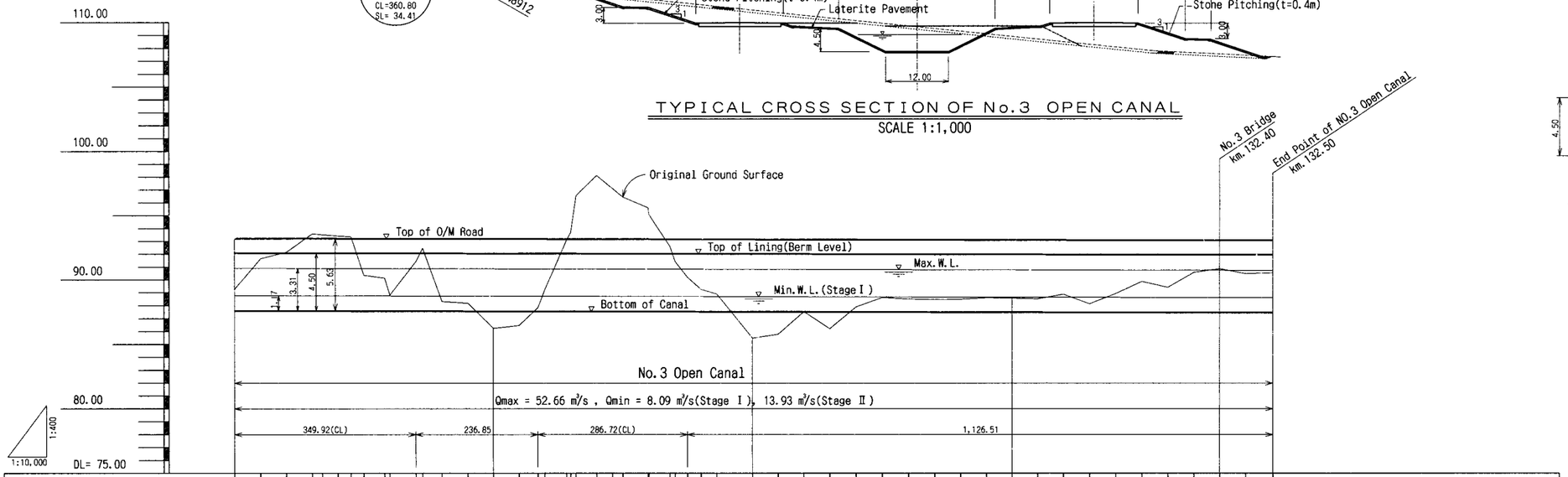
1. The location of curvatures on the canal route are as follows:

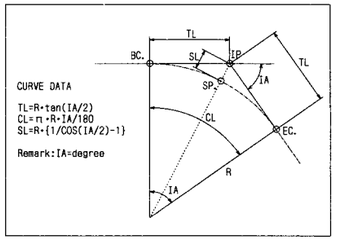
Principal peg	Distance (M)
SP-39	130,669.52
EC-39	130,849.92
BC-40	131,086.77
SP-40	131,230.13
EC-40	131,373.49
EP	132,500.00



CONCRETE LINED SECTION

SCALE 1:400





DISTANCE (KM)	130.500	130.550	130.600	130.650 SP-39	130.700	130.725	130.750	130.790 130.800	EC-39 130.863	130.900	130.950	131.000	131.050	BC-40 131.100	131.142 131.150 131.160	131.200	SP-40 131.250	131.298 131.300	131.340 131.350	EC-40	131.400	131.430	131.500	131.550	131.600	131.650	131.700	131.750	131.800	131.850	131.900	131.950	132.000	132.050	132.100	132.150	132.200	132.250	132.300	132.350	132.400	132.450	EP
ORIGINAL GROUND LEVEL	89.30	91.67	92.18	93.60 92.52	93.42	93.38	90.15 88.83	91.47 92.48	88.33	88.19	86.25	86.47	87.85 89.26	93.11 93.72 90.54	98.13	96.44	95.61 95.08	92.62 91.43	90.21	89.27	88.90	85.49	85.79	87.54	86.21	87.90	88.64	88.51	88.49	88.50	88.61	88.59	88.53	88.89	88.14	88.94	89.89	89.43	90.60	90.89	90.49	90.57
BERM LEVEL	92.11	92.11	92.10	92.09	92.09	92.08	92.07	92.07 92.07	92.06	92.05	92.04	92.04	92.03	92.03	92.02	92.01	92.00	91.99	91.99	91.98	91.97	91.96	91.95																				
TOP OF O/M ROAD	93.24	93.24	93.23	93.22	93.22	93.21	93.20	93.20 93.20	93.19	93.18	93.17	93.17	93.16	93.16	93.15	93.14	93.13	93.12	93.12	93.11	93.10	93.09	93.08																				
Max. WATER LEVEL	90.92	90.92	90.91	90.90	90.90	90.89	90.88	90.88 90.88	90.87	90.86	90.85	90.85	90.84	90.84	90.83	90.82	90.81	90.80	90.80	90.79	90.78	90.77	90.76																				
Min. WATER LEVEL AT STAGE I	88.78	88.78	88.77	88.76	88.76	88.75	88.74	88.74 88.74	88.73	88.72	88.71	88.71	88.70	88.70	88.69	88.68	88.67	88.66	88.66	88.65	88.64	88.63	88.62																				
BOTTOM WIDTH	12.00 m																																										
BOTTOM GRADE	8 cm/km = 1/12,500																																										
BOTTOM ELEVATION	87.61	87.61	87.60	87.59	87.59	87.58	87.57	87.57 87.57	87.56	87.55	87.54	87.54	87.53	87.53	87.52	87.51	87.50	87.49	87.49	87.48	87.47	87.46	87.45																				
CURVE ARRANGEMENT	IP-39, IA=41 20' 40", R=500, TL=188.66m, CL=360.80m, SL=34.41m													IP-40, IA=32 51' 24", R=500, TL=147.43m, CL=286.72m, SL=21.28m																												

THE ARAB REPUBLIC OF EGYPT
MINISTRY OF WATER RESOURCES AND IRRIGATION
NORTH SINAI DEVELOPMENT ORGANIZATION

THE NORTH SINAI INTEGRATED RURAL DEVELOPMENT PROJECT (PHASE III)

CONVEYANCE SYSTEM OF EL SHEIKH GABER EL SABBAH CANAL
BETWEEN KM 118.560 AND KM 132.500

PLAN AND PROFILE

BETWEEN KM 130.500 AND KM 132.500

JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)
SANYU CONSULTANTS INC, PACIFIC CONSULTANTS INTERNATIOAL

DESIGNED	
TRACED	
CHECKED	
APPROVED	
DRAWING NO.	CCL-306