

Data E

***FACILITIES DESIGN AND
COST ESTIMATE***

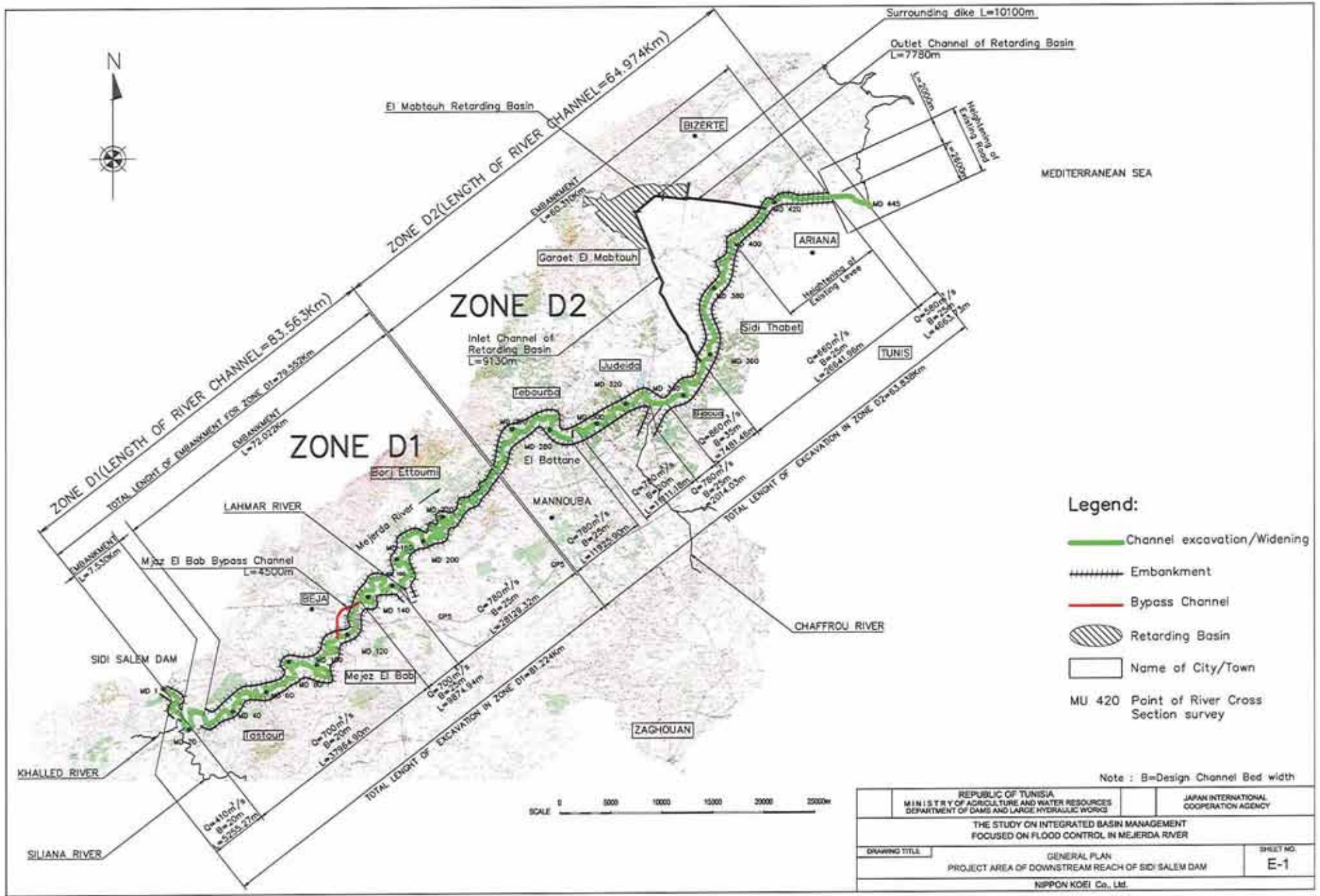
Data E1
Drawings of River Facilities

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75	AQUEDUCT AND FOOT PATH BRIDGE (ZONE D1) (improved to Road Bridge with aqueduct)	ROAD BRIDGE AT MD 134
76	REPLACEMENT OF EXISTING BRIDGE (ZONE U2)	ROAD BRIDGE AT MU 40
77	REPLACEMENT OF EXISTING BRIDGE (ZONE U2)	ROAD BRIDGE AT MU 153
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79	TYPICAL DESIGN OF SLUICeway 1.00 x 1.00 x 1 BARREL	PLAN AND PROFILE
80	TYPICAL DESIGN OF SLUICeway 1.00 x 1.00 x 1 BARREL	CROSS SECTIONS
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82	TYPICAL DESIGN OF SLUICeway 1.50 x 1.50 x 1 BARREL	CROSS SECTIONS
83	TYPICAL DESIGN OF SLUICeway 2.00 x 2.00 x 1 BARREL	PLAN AND PROFILE
84	TYPICAL DESIGN OF SLUICeway 2.00 x 2.00 x 1 BARREL	CROSS SECTIONS
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86	TYPICAL DESIGN OF SLUICeway 2.00 x 2.00 x 2 BARRELS	CROSS SECTIONS
87	TYPICAL DESIGN OF SLUICE GATE (ROLLER GATE TYPE)	2.50 x 2.50 x 2 BARRELS
88	TYPICAL DESIGN OF SLUICE GATE (ROLLER GATE TYPE)	2.50 x 2.50 x 3 BARRELS



SCALE 0 2500 5000 7500 10000 12500m

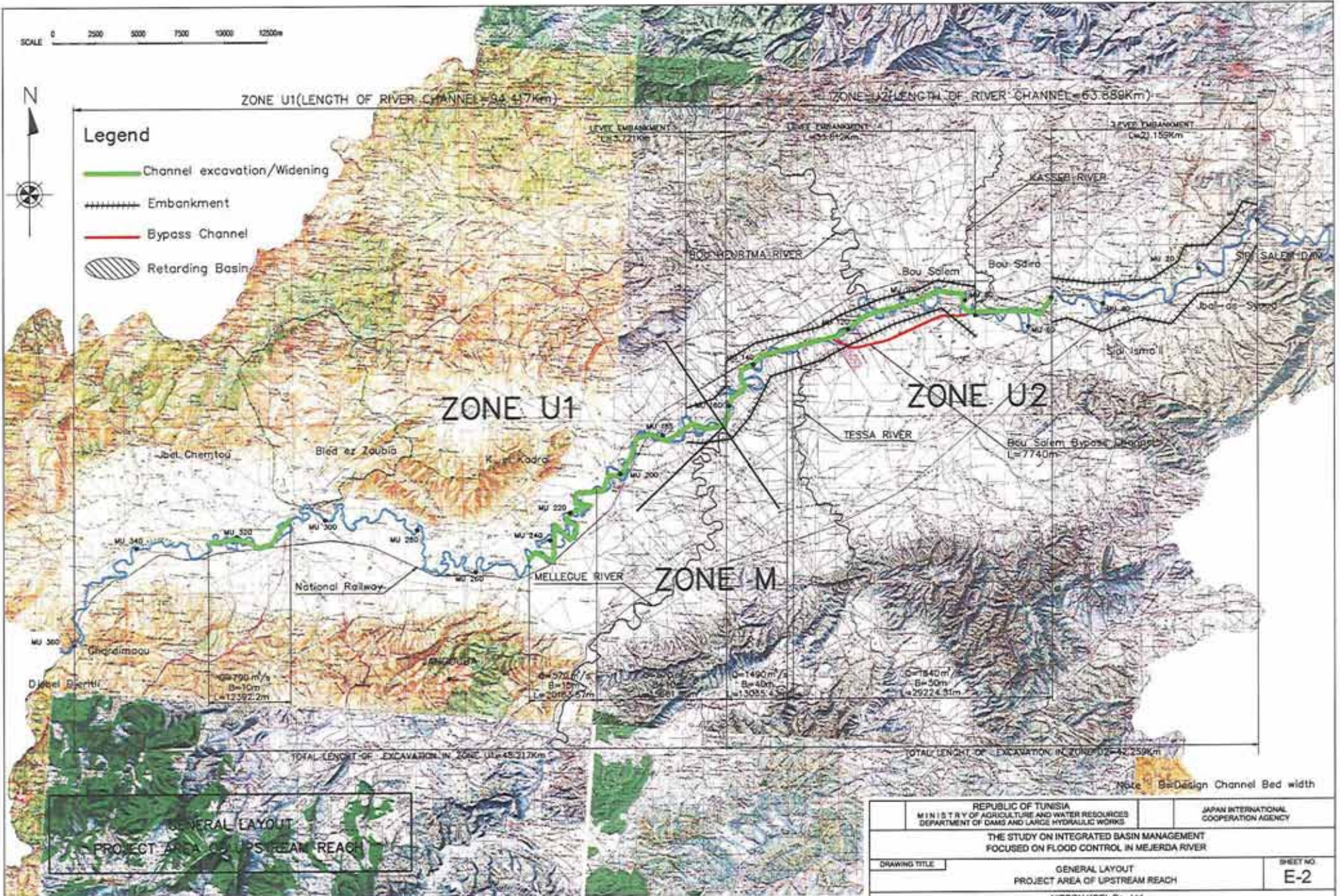


Legend

- Channel excavation/Widening
- Embankment
- Bypass Channel
- Retarding Basin

ZONE U1 (LENGTH OF RIVER CHANNEL = 94.417km)

ZONE U2 (LENGTH OF RIVER CHANNEL = 63.889km)



LEVEL EMBANKMENT
L=3.721km

LEVEL EMBANKMENT
L=5.812km

LEVEL EMBANKMENT
L=2.159km

KASSEB RIVER

BOU HENSTMA RIVER

Bou Salem

Bou Sdra

SIDI SALEM DAM

ZONE U1

ZONE U2

ZONE M

TESSA RIVER

Bou Salem Bypass Channel
L=7740m

Jebel Chemtou

Bled ez Zoubia

K. el Kadra

MU 345

MU 320

MU 300

MU 280

MU 240

MU 200

MELLEQUE RIVER

National Railway

MU 360

Gherdimaou

Djebel Berrtili

Q=790 m³/s
B=10m
L=12382.2m

Q=572 m³/s
B=10m
L=2016.57m

Q=1490 m³/s
B=40m
L=1300.40m

Q=1840 m³/s
B=50m
L=2922.43m

TOTAL LENGTH OF EXCAVATION IN ZONE U1=45.217km

TOTAL LENGTH OF EXCAVATION IN ZONE U2=32.259km

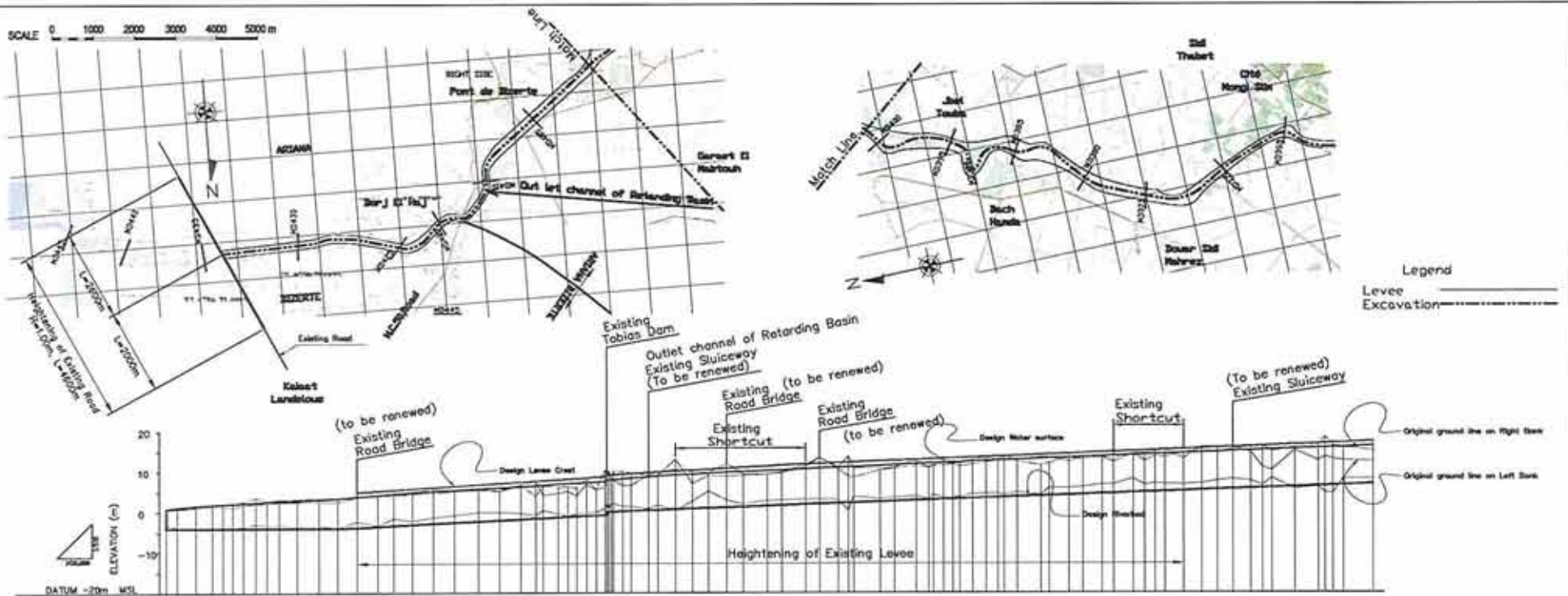
Note: B=Design Channel Bed width

GENERAL LAYOUT
PROJECT AREA OF UPSTREAM REACH

REPUBLIC OF TUNISIA MINISTRY OF AGRICULTURE AND WATER RESOURCES DEPARTMENT OF DAMS AND LARGE HYDRAULIC WORKS		JAPAN INTERNATIONAL COOPERATION AGENCY
THE STUDY ON INTEGRATED BASIN MANAGEMENT FOCUSED ON FLOOD CONTROL IN MEJERDA RIVER		
DRAWING TITLE	GENERAL LAYOUT PROJECT AREA OF UPSTREAM REACH	SHEET NO. E-2
NIPPON KOEI Co., Ltd.		

DE1-2

SCALE 0 1000 2000 3000 4000 5000 m



Legend
 Levee _____
 Excavation - - - - -

STATION No.	DESIGN SLOPE OF RIVERBED		DESIGN DISCHARGE		DESIGN EXCAVATION MOUTH	
	Level	Excavation	Excavation	Excavation	Excavation	Excavation
0+000	1:4	1:4	Q=8000m ³ /s	Q=8000m ³ /s	1:4	1:4
0+100	1:4	1:4	Q=8000m ³ /s	Q=8000m ³ /s	1:4	1:4
0+200	1:4	1:4	Q=8000m ³ /s	Q=8000m ³ /s	1:4	1:4
0+300	1:4	1:4	Q=8000m ³ /s	Q=8000m ³ /s	1:4	1:4
0+400	1:4	1:4	Q=8000m ³ /s	Q=8000m ³ /s	1:4	1:4
0+500	1:4	1:4	Q=8000m ³ /s	Q=8000m ³ /s	1:4	1:4
0+600	1:4	1:4	Q=8000m ³ /s	Q=8000m ³ /s	1:4	1:4
0+700	1:4	1:4	Q=8000m ³ /s	Q=8000m ³ /s	1:4	1:4
0+800	1:4	1:4	Q=8000m ³ /s	Q=8000m ³ /s	1:4	1:4
0+900	1:4	1:4	Q=8000m ³ /s	Q=8000m ³ /s	1:4	1:4
1+000	1:4	1:4	Q=8000m ³ /s	Q=8000m ³ /s	1:4	1:4
1+100	1:4	1:4	Q=8000m ³ /s	Q=8000m ³ /s	1:4	1:4
1+200	1:4	1:4	Q=8000m ³ /s	Q=8000m ³ /s	1:4	1:4
1+300	1:4	1:4	Q=8000m ³ /s	Q=8000m ³ /s	1:4	1:4
1+400	1:4	1:4	Q=8000m ³ /s	Q=8000m ³ /s	1:4	1:4
1+500	1:4	1:4	Q=8000m ³ /s	Q=8000m ³ /s	1:4	1:4
1+600	1:4	1:4	Q=8000m ³ /s	Q=8000m ³ /s	1:4	1:4
1+700	1:4	1:4	Q=8000m ³ /s	Q=8000m ³ /s	1:4	1:4
1+800	1:4	1:4	Q=8000m ³ /s	Q=8000m ³ /s	1:4	1:4
1+900	1:4	1:4	Q=8000m ³ /s	Q=8000m ³ /s	1:4	1:4
2+000	1:4	1:4	Q=8000m ³ /s	Q=8000m ³ /s	1:4	1:4
2+100	1:4	1:4	Q=8000m ³ /s	Q=8000m ³ /s	1:4	1:4
2+200	1:4	1:4	Q=8000m ³ /s	Q=8000m ³ /s	1:4	1:4
2+300	1:4	1:4	Q=8000m ³ /s	Q=8000m ³ /s	1:4	1:4

PROFILE OF MEJERDA RIVER DOWNSTREAM REACH (1/5)

SCALE
 Horizontal 0 1000 2000 3000 4000 5000 m
 Vertical 0 10 20 30 40 50 m

REPUBLIC OF TUNISIA
 MINISTRY OF AGRICULTURE AND WATER RESOURCES
 DEPARTMENT OF DAMS AND LARGE HYDRAULIC WORKS

jica JAPAN INTERNATIONAL COOPERATION AGENCY

THE STUDY ON INTEGRATED BASIN MANAGEMENT
 FOCUSED ON FLOOD CONTROL IN MEJERDA RIVER

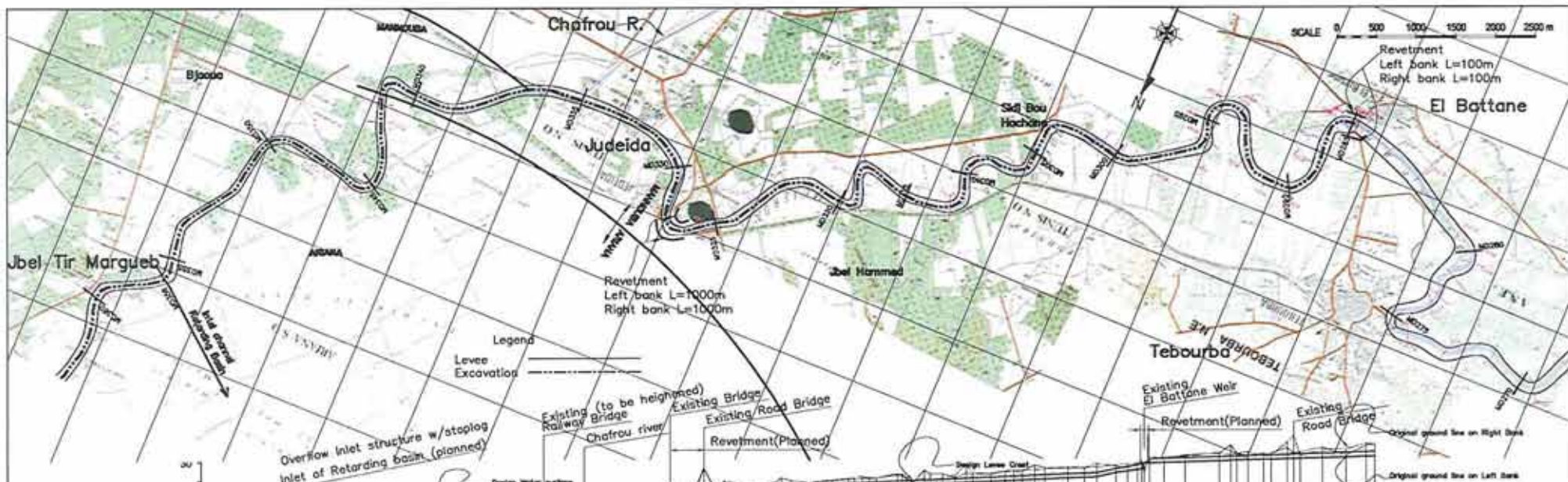
DRAWING TITLE: MEJERDA RIVER DOWNSTREAM REACH
 PLAN AND PROFILE (1/5)

SHEET NO. E-3

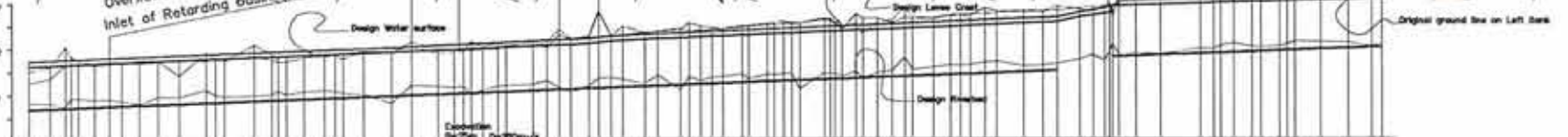
NIPPON KOEI Co., Ltd.

DE1-3

DE1-4

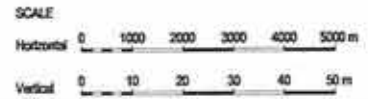


ELEVATION (m)



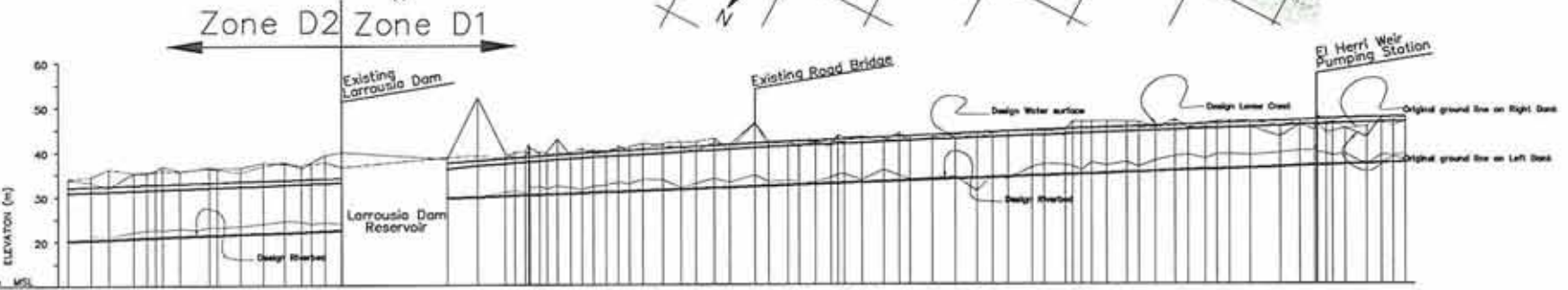
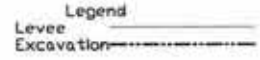
STATION No.	DESIGN SLOPE OF RIVERBED	DESIGN SLOPE OF LEVEE CREST	DESIGN CREST ELEVATION	DESIGN WATER LEVEL	ORIGINAL RIVERBED ELEVATION	LEFT BANK GROUND ELEVATION	RIGHT BANK GROUND ELEVATION	ACCUMULATIVE DISTANCE	DISTANCE
0+000	1:20	1:20	17.30	18.20	8.18	12.25	15.14	0.00	0.00
0+010	1:20	1:20	17.30	18.20	8.18	12.25	15.14	10.00	10.00
0+020	1:20	1:20	17.30	18.20	8.18	12.25	15.14	20.00	20.00
0+030	1:20	1:20	17.30	18.20	8.18	12.25	15.14	30.00	30.00
0+040	1:20	1:20	17.30	18.20	8.18	12.25	15.14	40.00	40.00
0+050	1:20	1:20	17.30	18.20	8.18	12.25	15.14	50.00	50.00
0+060	1:20	1:20	17.30	18.20	8.18	12.25	15.14	60.00	60.00
0+070	1:20	1:20	17.30	18.20	8.18	12.25	15.14	70.00	70.00
0+080	1:20	1:20	17.30	18.20	8.18	12.25	15.14	80.00	80.00
0+090	1:20	1:20	17.30	18.20	8.18	12.25	15.14	90.00	90.00
0+100	1:20	1:20	17.30	18.20	8.18	12.25	15.14	100.00	100.00
0+110	1:20	1:20	17.30	18.20	8.18	12.25	15.14	110.00	110.00
0+120	1:20	1:20	17.30	18.20	8.18	12.25	15.14	120.00	120.00
0+130	1:20	1:20	17.30	18.20	8.18	12.25	15.14	130.00	130.00
0+140	1:20	1:20	17.30	18.20	8.18	12.25	15.14	140.00	140.00
0+150	1:20	1:20	17.30	18.20	8.18	12.25	15.14	150.00	150.00
0+160	1:20	1:20	17.30	18.20	8.18	12.25	15.14	160.00	160.00
0+170	1:20	1:20	17.30	18.20	8.18	12.25	15.14	170.00	170.00
0+180	1:20	1:20	17.30	18.20	8.18	12.25	15.14	180.00	180.00
0+190	1:20	1:20	17.30	18.20	8.18	12.25	15.14	190.00	190.00
0+200	1:20	1:20	17.30	18.20	8.18	12.25	15.14	200.00	200.00
0+210	1:20	1:20	17.30	18.20	8.18	12.25	15.14	210.00	210.00
0+220	1:20	1:20	17.30	18.20	8.18	12.25	15.14	220.00	220.00
0+230	1:20	1:20	17.30	18.20	8.18	12.25	15.14	230.00	230.00
0+240	1:20	1:20	17.30	18.20	8.18	12.25	15.14	240.00	240.00
0+250	1:20	1:20	17.30	18.20	8.18	12.25	15.14	250.00	250.00
0+260	1:20	1:20	17.30	18.20	8.18	12.25	15.14	260.00	260.00
0+270	1:20	1:20	17.30	18.20	8.18	12.25	15.14	270.00	270.00
0+280	1:20	1:20	17.30	18.20	8.18	12.25	15.14	280.00	280.00
0+290	1:20	1:20	17.30	18.20	8.18	12.25	15.14	290.00	290.00
0+300	1:20	1:20	17.30	18.20	8.18	12.25	15.14	300.00	300.00
0+310	1:20	1:20	17.30	18.20	8.18	12.25	15.14	310.00	310.00
0+320	1:20	1:20	17.30	18.20	8.18	12.25	15.14	320.00	320.00
0+330	1:20	1:20	17.30	18.20	8.18	12.25	15.14	330.00	330.00
0+340	1:20	1:20	17.30	18.20	8.18	12.25	15.14	340.00	340.00
0+350	1:20	1:20	17.30	18.20	8.18	12.25	15.14	350.00	350.00
0+360	1:20	1:20	17.30	18.20	8.18	12.25	15.14	360.00	360.00
0+370	1:20	1:20	17.30	18.20	8.18	12.25	15.14	370.00	370.00
0+380	1:20	1:20	17.30	18.20	8.18	12.25	15.14	380.00	380.00
0+390	1:20	1:20	17.30	18.20	8.18	12.25	15.14	390.00	390.00
0+400	1:20	1:20	17.30	18.20	8.18	12.25	15.14	400.00	400.00
0+410	1:20	1:20	17.30	18.20	8.18	12.25	15.14	410.00	410.00
0+420	1:20	1:20	17.30	18.20	8.18	12.25	15.14	420.00	420.00
0+430	1:20	1:20	17.30	18.20	8.18	12.25	15.14	430.00	430.00
0+440	1:20	1:20	17.30	18.20	8.18	12.25	15.14	440.00	440.00
0+450	1:20	1:20	17.30	18.20	8.18	12.25	15.14	450.00	450.00
0+460	1:20	1:20	17.30	18.20	8.18	12.25	15.14	460.00	460.00
0+470	1:20	1:20	17.30	18.20	8.18	12.25	15.14	470.00	470.00
0+480	1:20	1:20	17.30	18.20	8.18	12.25	15.14	480.00	480.00
0+490	1:20	1:20	17.30	18.20	8.18	12.25	15.14	490.00	490.00
0+500	1:20	1:20	17.30	18.20	8.18	12.25	15.14	500.00	500.00

PROFILE OF MEJERDA RIVER DOWNSTREAM REACH (2/5)

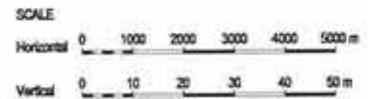


	REPUBLIC OF TUNISIA MINISTRY OF AGRICULTURE AND WATER RESOURCES DEPARTMENT OF DAMS AND LARGE HYDRAULIC WORKS		JAPAN INTERNATIONAL COOPERATION AGENCY
	THE STUDY ON INTEGRATED BASIN MANAGEMENT FOCUSED ON FLOOD CONTROL IN MEJERDA RIVER		
DRAWING TITLE		SHEET NO.	
MEJERDA RIVER DOWNSTREAM REACH PLAN AND PROFILE (2/5)		E-4	
NIPPON KOEI Co., Ltd.			

DEI-5



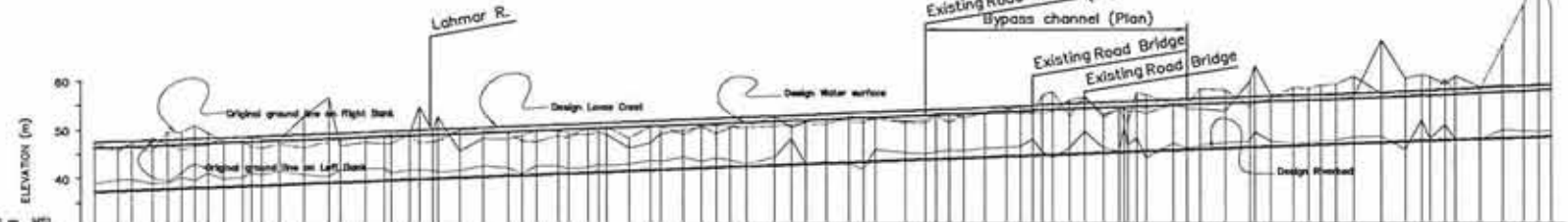
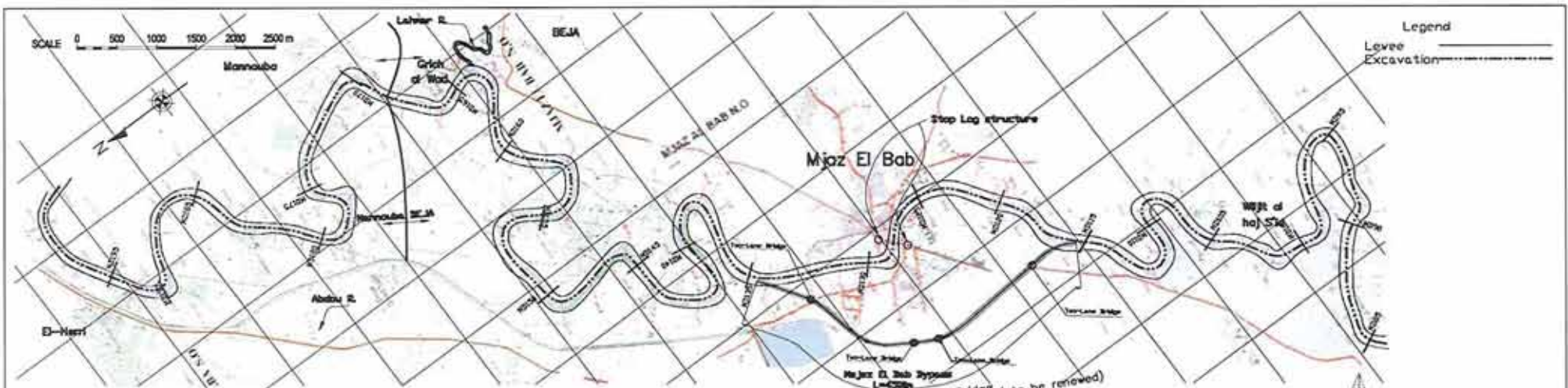
DESIGN SLOPE OF RIVERBED	DESIGN RESEARCH	DESIGN EXCAVATION WIDTH	DESIGN RIVERBED ELEVATION	DESIGN SLOPE OF LEVEE CREST	DESIGN CREST ELEVATION	DESIGN WATER LEVEL	ORIGINAL RIVERBED ELEVATION	LEFT BANK GROUND ELEVATION	RIGHT BANK GROUND ELEVATION	ACCUMULATIVE DISTANCE	DISTANCE	STATION No.
Excavation 1/200	1/200	0-700m/s	31.30	1/400	32.97	34.00	28.00	34.50	34.50	0.00	0.00	NO 00
Excavation 1/200	1/200	0-700m/s	31.35	1/400	32.97	34.00	28.05	34.50	34.50	100.00	100.00	NO 01
Excavation 1/200	1/200	0-700m/s	31.40	1/400	32.97	34.00	28.10	34.50	34.50	200.00	200.00	NO 02
Excavation 1/200	1/200	0-700m/s	31.45	1/400	32.97	34.00	28.15	34.50	34.50	300.00	300.00	NO 03
Excavation 1/200	1/200	0-700m/s	31.50	1/400	32.97	34.00	28.20	34.50	34.50	400.00	400.00	NO 04
Excavation 1/200	1/200	0-700m/s	31.55	1/400	32.97	34.00	28.25	34.50	34.50	500.00	500.00	NO 05
Excavation 1/200	1/200	0-700m/s	31.60	1/400	32.97	34.00	28.30	34.50	34.50	600.00	600.00	NO 06
Excavation 1/200	1/200	0-700m/s	31.65	1/400	32.97	34.00	28.35	34.50	34.50	700.00	700.00	NO 07
Excavation 1/200	1/200	0-700m/s	31.70	1/400	32.97	34.00	28.40	34.50	34.50	800.00	800.00	NO 08
Excavation 1/200	1/200	0-700m/s	31.75	1/400	32.97	34.00	28.45	34.50	34.50	900.00	900.00	NO 09
Excavation 1/200	1/200	0-700m/s	31.80	1/400	32.97	34.00	28.50	34.50	34.50	1000.00	1000.00	NO 10
Excavation 1/200	1/200	0-700m/s	31.85	1/400	32.97	34.00	28.55	34.50	34.50	1100.00	1100.00	NO 11
Excavation 1/200	1/200	0-700m/s	31.90	1/400	32.97	34.00	28.60	34.50	34.50	1200.00	1200.00	NO 12
Excavation 1/200	1/200	0-700m/s	31.95	1/400	32.97	34.00	28.65	34.50	34.50	1300.00	1300.00	NO 13
Excavation 1/200	1/200	0-700m/s	32.00	1/400	32.97	34.00	28.70	34.50	34.50	1400.00	1400.00	NO 14
Excavation 1/200	1/200	0-700m/s	32.05	1/400	32.97	34.00	28.75	34.50	34.50	1500.00	1500.00	NO 15
Excavation 1/200	1/200	0-700m/s	32.10	1/400	32.97	34.00	28.80	34.50	34.50	1600.00	1600.00	NO 16
Excavation 1/200	1/200	0-700m/s	32.15	1/400	32.97	34.00	28.85	34.50	34.50	1700.00	1700.00	NO 17
Excavation 1/200	1/200	0-700m/s	32.20	1/400	32.97	34.00	28.90	34.50	34.50	1800.00	1800.00	NO 18
Excavation 1/200	1/200	0-700m/s	32.25	1/400	32.97	34.00	28.95	34.50	34.50	1900.00	1900.00	NO 19
Excavation 1/200	1/200	0-700m/s	32.30	1/400	32.97	34.00	29.00	34.50	34.50	2000.00	2000.00	NO 20
Excavation 1/200	1/200	0-700m/s	32.35	1/400	32.97	34.00	29.05	34.50	34.50	2100.00	2100.00	NO 21
Excavation 1/200	1/200	0-700m/s	32.40	1/400	32.97	34.00	29.10	34.50	34.50	2200.00	2200.00	NO 22
Excavation 1/200	1/200	0-700m/s	32.45	1/400	32.97	34.00	29.15	34.50	34.50	2300.00	2300.00	NO 23
Excavation 1/200	1/200	0-700m/s	32.50	1/400	32.97	34.00	29.20	34.50	34.50	2400.00	2400.00	NO 24
Excavation 1/200	1/200	0-700m/s	32.55	1/400	32.97	34.00	29.25	34.50	34.50	2500.00	2500.00	NO 25
Excavation 1/200	1/200	0-700m/s	32.60	1/400	32.97	34.00	29.30	34.50	34.50	2600.00	2600.00	NO 26
Excavation 1/200	1/200	0-700m/s	32.65	1/400	32.97	34.00	29.35	34.50	34.50	2700.00	2700.00	NO 27
Excavation 1/200	1/200	0-700m/s	32.70	1/400	32.97	34.00	29.40	34.50	34.50	2800.00	2800.00	NO 28
Excavation 1/200	1/200	0-700m/s	32.75	1/400	32.97	34.00	29.45	34.50	34.50	2900.00	2900.00	NO 29
Excavation 1/200	1/200	0-700m/s	32.80	1/400	32.97	34.00	29.50	34.50	34.50	3000.00	3000.00	NO 30
Excavation 1/200	1/200	0-700m/s	32.85	1/400	32.97	34.00	29.55	34.50	34.50	3100.00	3100.00	NO 31
Excavation 1/200	1/200	0-700m/s	32.90	1/400	32.97	34.00	29.60	34.50	34.50	3200.00	3200.00	NO 32
Excavation 1/200	1/200	0-700m/s	32.95	1/400	32.97	34.00	29.65	34.50	34.50	3300.00	3300.00	NO 33
Excavation 1/200	1/200	0-700m/s	33.00	1/400	32.97	34.00	29.70	34.50	34.50	3400.00	3400.00	NO 34
Excavation 1/200	1/200	0-700m/s	33.05	1/400	32.97	34.00	29.75	34.50	34.50	3500.00	3500.00	NO 35
Excavation 1/200	1/200	0-700m/s	33.10	1/400	32.97	34.00	29.80	34.50	34.50	3600.00	3600.00	NO 36
Excavation 1/200	1/200	0-700m/s	33.15	1/400	32.97	34.00	29.85	34.50	34.50	3700.00	3700.00	NO 37
Excavation 1/200	1/200	0-700m/s	33.20	1/400	32.97	34.00	29.90	34.50	34.50	3800.00	3800.00	NO 38
Excavation 1/200	1/200	0-700m/s	33.25	1/400	32.97	34.00	29.95	34.50	34.50	3900.00	3900.00	NO 39
Excavation 1/200	1/200	0-700m/s	33.30	1/400	32.97	34.00	30.00	34.50	34.50	4000.00	4000.00	NO 40



PROFILE OF MEJERDA RIVER DOWNSTREAM REACH (3/5)

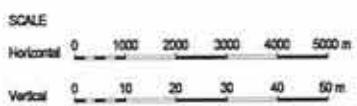
REPUBLIC OF TUNISIA MINISTRY OF AGRICULTURE AND WATER RESOURCES DEPARTMENT OF DAMS AND LARGE HYDRAULIC WORKS			
THE STUDY ON INTEGRATED BASIN MANAGEMENT FOCUSED ON FLOOD CONTROL IN MEJERDA RIVER			
DRAWING TITLE		MEJERDA RIVER DOWNSTREAM REACH PLAN AND PROFILE (3/5)	
		SHEET NO. E-5	
NIPPON KOEI Co., Ltd.			

DE1-6



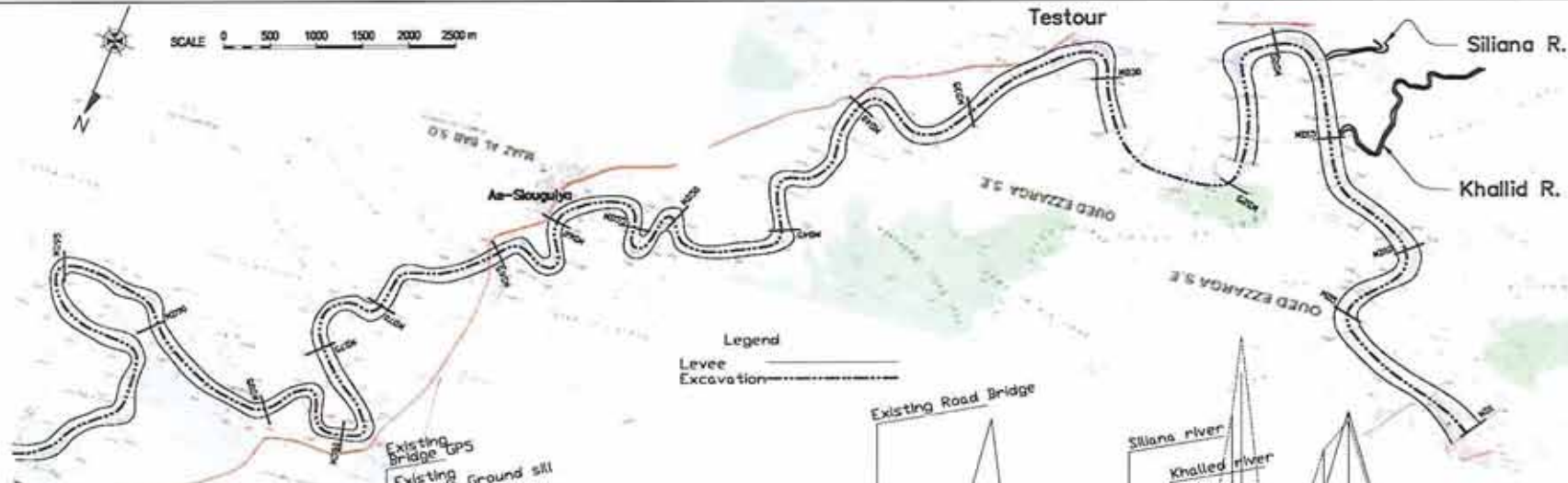
DESIGN SLOPE OF RIVERBED	Excavation 1:750		Excavation 1:500		Excavation 1:500		Excavation 1:500		Excavation 1:500		Excavation 1:500	
DESIGN DISCHARGE	Q=700m ³ /s		Q=700m ³ /s		Q=700m ³ /s		Q=700m ³ /s		Q=700m ³ /s		Q=700m ³ /s	
DESIGN EXCAVATION WIDTH	12.0		12.0		12.0		12.0		12.0		12.0	
DESIGN RIVERBED ELEVATION	37.50	37.30	37.40	37.70	37.70	37.80	37.80	37.80	37.80	37.80	37.80	37.80
DESIGN SLOPE OF LEVEE CREST	1:750		1:500		1:500		1:500		1:500		1:500	
DESIGN CREST ELEVATION	47.47	47.59	47.65	47.76	47.87	47.97	48.07	48.17	48.27	48.37	48.47	48.57
DESIGN WATER LEVEL	45.30	45.41	45.50	45.58	45.66	45.74	45.82	45.90	45.98	46.06	46.14	46.22
ORIGINAL RIVERBED ELEVATION	36.95	37.42	37.48	37.54	37.60	37.66	37.72	37.78	37.84	37.90	37.96	38.02
LEFT BANK GROUND ELEVATION	47.21	46.94	46.78	46.62	46.46	46.30	46.14	45.98	45.82	45.66	45.50	45.34
RIGHT BANK GROUND ELEVATION	46.53	46.76	46.99	47.22	47.45	47.68	47.91	48.14	48.37	48.60	48.83	49.06
ACCUMULATIVE DISTANCE	0+000	0+050	0+100	0+150	0+200	0+250	0+300	0+350	0+400	0+450	0+500	0+550
DISTANCE	0+000	0+050	0+100	0+150	0+200	0+250	0+300	0+350	0+400	0+450	0+500	0+550
STATION No.	0+000	0+050	0+100	0+150	0+200	0+250	0+300	0+350	0+400	0+450	0+500	0+550

PROFILE OF MEJERDA RIVER DOWNSTREAM REACH (4/5)



	REPUBLIC OF TUNISIA MINISTRY OF AGRICULTURE AND WATER RESOURCES DEPARTMENT OF DAMS AND LARGE HYDRAULIC WORKS	JAPAN INTERNATIONAL COOPERATION AGENCY
	THE STUDY ON INTEGRATED BASIN MANAGEMENT FOCUSED ON FLOOD CONTROL IN MEJERDA RIVER	
DRAWING TITLE	MEJERDA RIVER DOWNSTREAM REACH PLAN AND PROFILE (4/5)	SHEET No. E-6
NIPPON KOEI Co., Ltd.		

SCALE 0 500 1000 1500 2000 2500 m



Legend

Levee
Excavation

Existing Road Bridge

Siliana river

Khalid river

Existing Sloughs

Existing Ground sill

Original ground line on Right Bank

Design Levee Crest

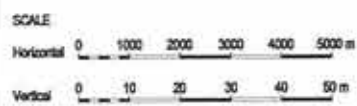
Design Water Surface

Design Riverbed



DATUM 40 m MSL

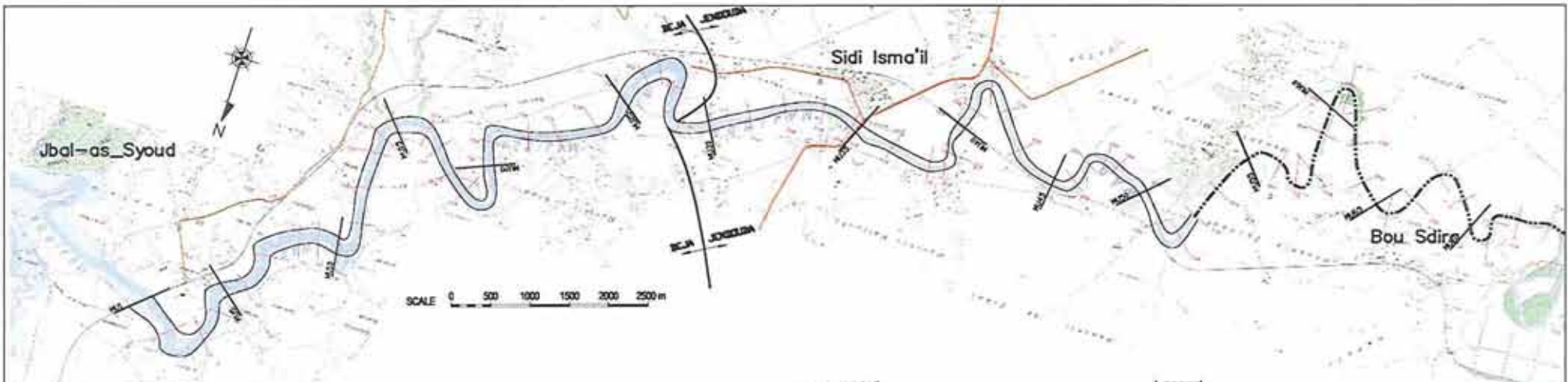
DESIGN SLOPE OF RIVERBED	Excavation 3:1		L/2000 1:4000000		Excavation 3:1		L/2000 1:4000000		Excavation 3:1		L/2000 1:4000000		Excavation 3:1		L/2000 1:4000000		Excavation 3:1		L/2000 1:4000000		Excavation 3:1			
DESIGN DISCHARGE	Q=700m ³ /s		Q=700m ³ /s		Q=700m ³ /s		Q=700m ³ /s		Q=700m ³ /s		Q=700m ³ /s		Q=700m ³ /s		Q=700m ³ /s		Q=700m ³ /s		Q=700m ³ /s		Q=700m ³ /s			
DESIGN RIVERBED ELEVATION	67.51	67.51	67.51	67.51	67.51	67.51	67.51	67.51	67.51	67.51	67.51	67.51	67.51	67.51	67.51	67.51	67.51	67.51	67.51	67.51	67.51	67.51		
DESIGN SLOPE OF LEVEE CREST	1:3		1:3		1:3		1:3		1:3		1:3		1:3		1:3		1:3		1:3		1:3		1:3	
DESIGN CREST ELEVATION	69.56	69.56	69.56	69.56	69.56	69.56	69.56	69.56	69.56	69.56	69.56	69.56	69.56	69.56	69.56	69.56	69.56	69.56	69.56	69.56	69.56	69.56		
DESIGN WATER LEVEL	67.54	67.54	67.54	67.54	67.54	67.54	67.54	67.54	67.54	67.54	67.54	67.54	67.54	67.54	67.54	67.54	67.54	67.54	67.54	67.54	67.54	67.54		
ORIGINAL RIVERBED ELEVATION	63.51	63.51	63.51	63.51	63.51	63.51	63.51	63.51	63.51	63.51	63.51	63.51	63.51	63.51	63.51	63.51	63.51	63.51	63.51	63.51	63.51	63.51		
LEFT BANK GROUND ELEVATION	64.52	64.52	64.52	64.52	64.52	64.52	64.52	64.52	64.52	64.52	64.52	64.52	64.52	64.52	64.52	64.52	64.52	64.52	64.52	64.52	64.52	64.52		
RIGHT BANK GROUND ELEVATION	74.07	74.07	74.07	74.07	74.07	74.07	74.07	74.07	74.07	74.07	74.07	74.07	74.07	74.07	74.07	74.07	74.07	74.07	74.07	74.07	74.07	74.07		
ACCUMULATIVE DISTANCE	0	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100		
DISTANCE	0	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100		
STATION No.	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71		



PROFILE OF MEJERDA RIVER DOWNSTREAM REACH (5/5)

REPUBLIC OF TUNISIA MINISTRY OF AGRICULTURE AND WATER RESOURCES DEPARTMENT OF DAMS AND LARGE HYDRAULIC WORKS		JAPAN INTERNATIONAL COOPERATION AGENCY	
THE STUDY ON INTEGRATED BASIN MANAGEMENT FOCUSED ON FLOOD CONTROL IN MEJERDA RIVER			
DRAWING TITLE		MEJERDA RIVER DOWNSTREAM REACH PLAN AND PROFILE (5/5)	
NIPPON KOEI Co., Ltd.			SHEET NO. E-7

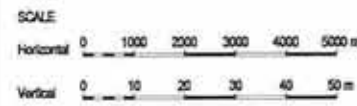
DE1-7



DATUM 100 m MSL

DESIGN SLOPE OF RIVERBED																																					
DESIGN DISCHARGE																																					
DESIGN EXCAVATION WIDTH	1/200 Q=1840m³/s															1/200 Q=1840m³/s																					
DESIGN RIVERBED ELEVATION																																					
DESIGN SLOPE OF LEVEE CREST	1/300 Q=1840m³/s															1/300 Q=1840m³/s																					
DESIGN CREST ELEVATION	111.90	111.80	111.70	111.60	111.50	111.40	111.30	111.20	111.10	111.00	110.90	110.80	110.70	110.60	110.50	110.40	110.30	110.20	110.10	110.00	109.90	109.80	109.70	109.60	109.50	109.40	109.30	109.20	109.10	109.00	108.90	108.80	108.70	108.60	108.50		
DESIGN WATER LEVEL	111.70	111.60	111.50	111.40	111.30	111.20	111.10	111.00	110.90	110.80	110.70	110.60	110.50	110.40	110.30	110.20	110.10	110.00	109.90	109.80	109.70	109.60	109.50	109.40	109.30	109.20	109.10	109.00	108.90	108.80	108.70	108.60	108.50	108.40	108.30	108.20	
ORIGINAL RIVERBED ELEVATION	111.70	111.60	111.50	111.40	111.30	111.20	111.10	111.00	110.90	110.80	110.70	110.60	110.50	110.40	110.30	110.20	110.10	110.00	109.90	109.80	109.70	109.60	109.50	109.40	109.30	109.20	109.10	109.00	108.90	108.80	108.70	108.60	108.50	108.40	108.30	108.20	
LEFT BANK GROUND ELEVATION	112.10	112.00	111.90	111.80	111.70	111.60	111.50	111.40	111.30	111.20	111.10	111.00	110.90	110.80	110.70	110.60	110.50	110.40	110.30	110.20	110.10	110.00	109.90	109.80	109.70	109.60	109.50	109.40	109.30	109.20	109.10	109.00	108.90	108.80	108.70	108.60	108.50
RIGHT BANK GROUND ELEVATION	112.10	112.00	111.90	111.80	111.70	111.60	111.50	111.40	111.30	111.20	111.10	111.00	110.90	110.80	110.70	110.60	110.50	110.40	110.30	110.20	110.10	110.00	109.90	109.80	109.70	109.60	109.50	109.40	109.30	109.20	109.10	109.00	108.90	108.80	108.70	108.60	108.50
ACCUMULATIVE DISTANCE	0.00	450.00	900.00	1350.00	1800.00	2250.00	2700.00	3150.00	3600.00	4050.00	4500.00	4950.00	5400.00	5850.00	6300.00	6750.00	7200.00	7650.00	8100.00	8550.00	9000.00	9450.00	9900.00	10350.00	10800.00	11250.00	11700.00	12150.00	12600.00	13050.00	13500.00	13950.00	14400.00	14850.00	15300.00		
DISTANCE	0.00	450.00	900.00	1350.00	1800.00	2250.00	2700.00	3150.00	3600.00	4050.00	4500.00	4950.00	5400.00	5850.00	6300.00	6750.00	7200.00	7650.00	8100.00	8550.00	9000.00	9450.00	9900.00	10350.00	10800.00	11250.00	11700.00	12150.00	12600.00	13050.00	13500.00	13950.00	14400.00	14850.00	15300.00		
STATION No.	M01	M02	M03	M04	M05	M06	M07	M08	M09	M10	M11	M12	M13	M14	M15	M16	M17	M18	M19	M20	M21	M22	M23	M24	M25	M26	M27	M28	M29	M30	M31	M32	M33	M34	M35	M36	

PROFILE OF MEJERDA RIVER UPSTREAM REACH (1/6)



REPUBLIC OF TUNISIA
MINISTRY OF AGRICULTURE AND WATER RESOURCES
DEPARTMENT OF DAMS AND LARGE HYDRAULIC WORKS

JICA
JAPAN INTERNATIONAL COOPERATION AGENCY

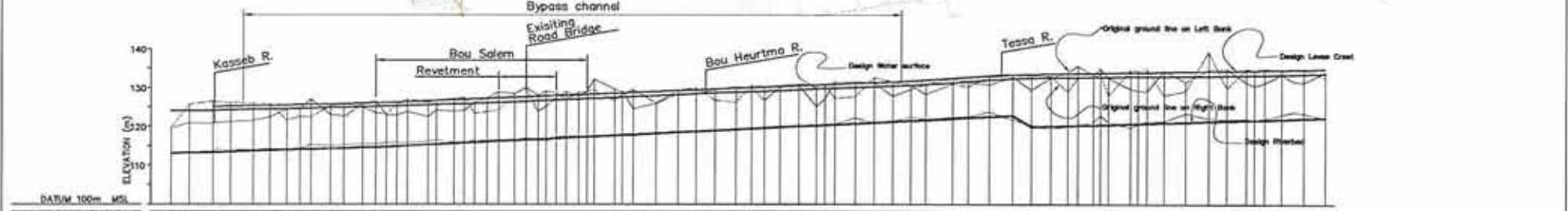
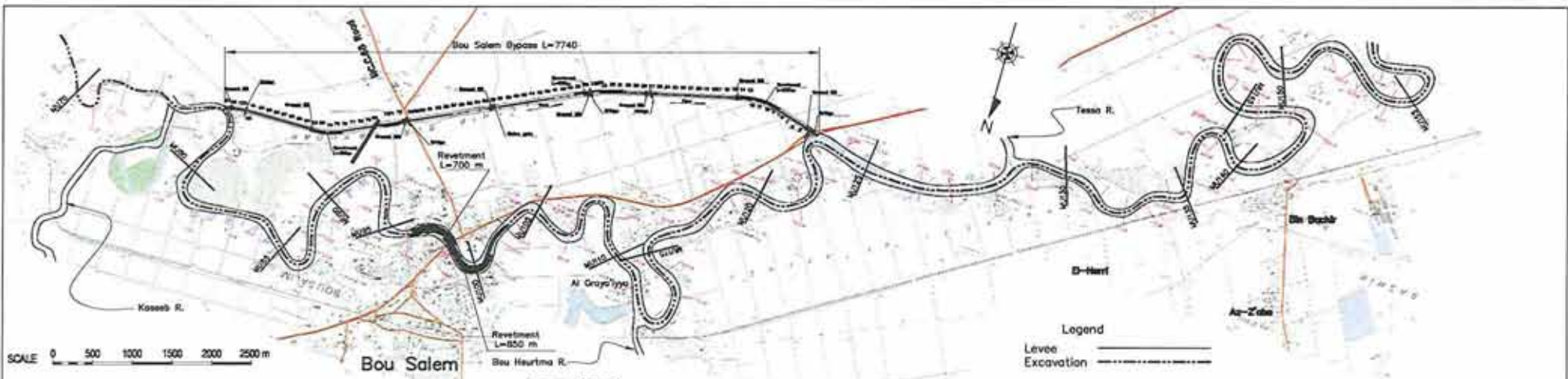
THE STUDY ON INTEGRATED BASIN MANAGEMENT
FOCUSSED ON FLOOD CONTROL IN MEJERDA RIVER

DRAWING TITLE: MEJERDA RIVER UPSTREAM REACH
PLAN AND PROFILE (1/6)

SHEET NO. E-8

NIPPON KOEI Co., Ltd.

DE1-9

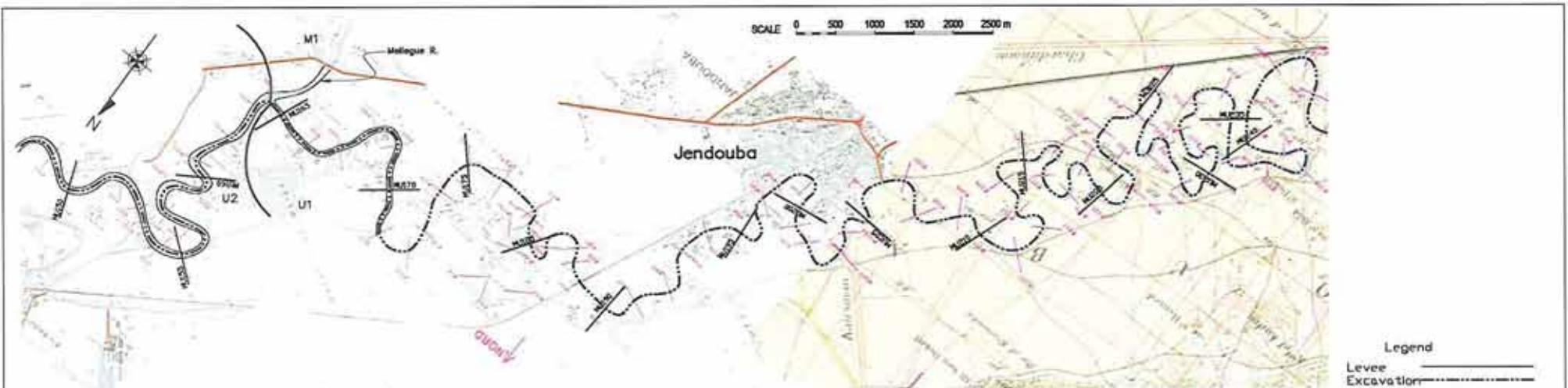


DESIGN SLOPE OF RIVERBED	1:200	1:2000	Excavation B=30m	1:2000	Excavation B=50m	1:2000	Excavation B=40m
DESIGN RIVERBED ELEVATION	113.00	113.10	113.15	113.17	113.18	113.19	113.20
DESIGN SLOPE OF LEVEE CREST	1:200	1:2000	1:2000	1:2000	1:2000	1:2000	1:2000
DESIGN CREST ELEVATION	124.69	124.70	124.71	124.72	124.73	124.74	124.75
DESIGN WATER LEVEL	124.02	124.03	124.04	124.05	124.06	124.07	124.08
ORIGINAL RIVERBED ELEVATION	113.11	113.12	113.13	113.14	113.15	113.16	113.17
LEFT BANK GROUND ELEVATION	118.22	118.23	118.24	118.25	118.26	118.27	118.28
RIGHT BANK GROUND ELEVATION	118.22	118.23	118.24	118.25	118.26	118.27	118.28
ACCUMULATIVE DISTANCE	2028.13	2028.42	2028.71	2029.00	2029.29	2029.58	2029.87
DISTANCE	291.48	452.26	613.04	773.82	934.60	1095.38	1256.16
STATION No.	M073	M074	M075	M076	M077	M078	M079

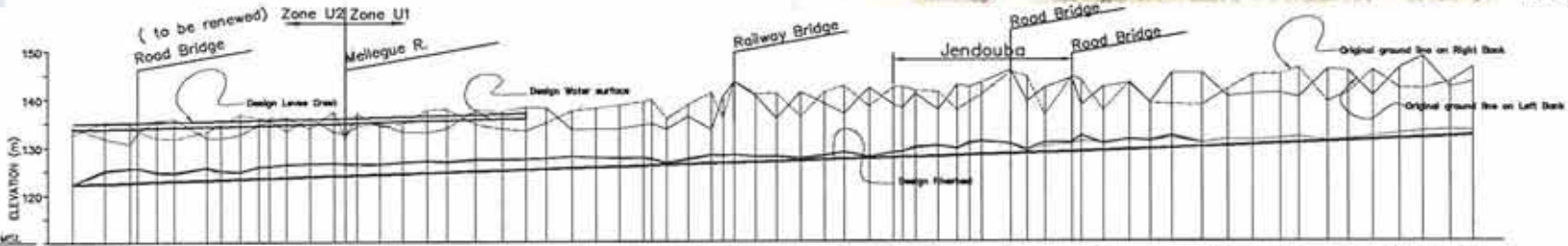
PROFILE OF MEJERDA RIVER UPSTREAM REACH (2/6)

	REPUBLIC OF TUNISIA MINISTRY OF AGRICULTURE AND WATER RESOURCES DEPARTMENT OF DAMS AND LARGE HYDRAULIC WORKS		JAPAN INTERNATIONAL COOPERATION AGENCY
	THE STUDY ON INTEGRATED BASIN MANAGEMENT FOCUSED ON FLOOD CONTROL IN MEJERDA RIVER		
	DRAWING TITLE: MEJERDA RIVER UPSTREAM REACH PLAN AND PROFILE (2/6)		
NIPPON KOEI Co., Ltd.		SHEET NO. E-9	

DE1-10

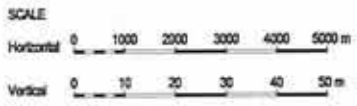


Legend
 Levee _____
 Excavation - - - - -



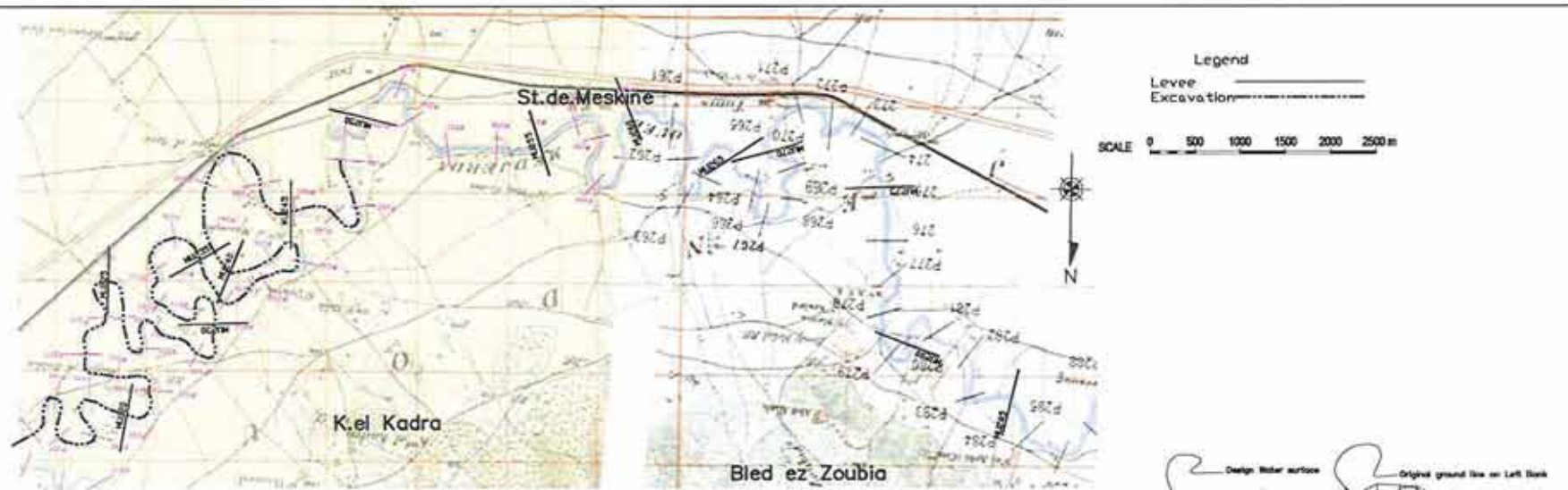
DESIGN SLOPE OF RIVERBED	0-1:500/100	1:2000	Excavation	0-5:700/100	1:2000	Excavation	0-5:700/100	1:2400	Excavation
DESIGN RIVERBED ELEVATION	122.28	122.39	122.23	122.22	122.22	122.22	122.22	122.22	122.22
DESIGN SLOPE OF LEVEE CREST	1:2000	1:2000	1:2000	1:2000	1:2000	1:2000	1:2000	1:2000	1:2000
DESIGN CREST ELEVATION	134.61	134.64	134.59	134.59	134.59	134.59	134.59	134.59	134.59
DESIGN WATER LEVEL	132.65	132.65	132.65	132.65	132.65	132.65	132.65	132.65	132.65
ORIGINAL RIVERBED ELEVATION	122.21	122.21	122.21	122.21	122.21	122.21	122.21	122.21	122.21
LEFT BANK GROUND ELEVATION	134.54	134.54	134.54	134.54	134.54	134.54	134.54	134.54	134.54
RIGHT BANK GROUND ELEVATION	132.65	132.65	132.65	132.65	132.65	132.65	132.65	132.65	132.65
ACCUMULATIVE DISTANCE	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00
DISTANCE	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00
STATION No.	MJ20	MJ21	MJ22	MJ23	MJ24	MJ25	MJ26	MJ27	MJ28

PROFILE OF MEJERDA RIVER UPSTREAM REACH (3/6)



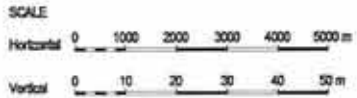
	REPUBLIC OF TUNISIA MINISTRY OF AGRICULTURE AND WATER RESOURCES DEPARTMENT OF DAMS AND LARGE HYDRAULIC WORKS	JAPAN INTERNATIONAL COOPERATION AGENCY
	THE STUDY ON INTEGRATED BASIN MANAGEMENT FOCUSED ON FLOOD CONTROL IN MEJERDA RIVER	
DRAWING TITLE MEJERDA RIVER UPSTREAM REACH PLAN AND PROFILE (3/6)	SHEET NO. E-10	
NIPPON KOEI Co., Ltd.		

DE1-11



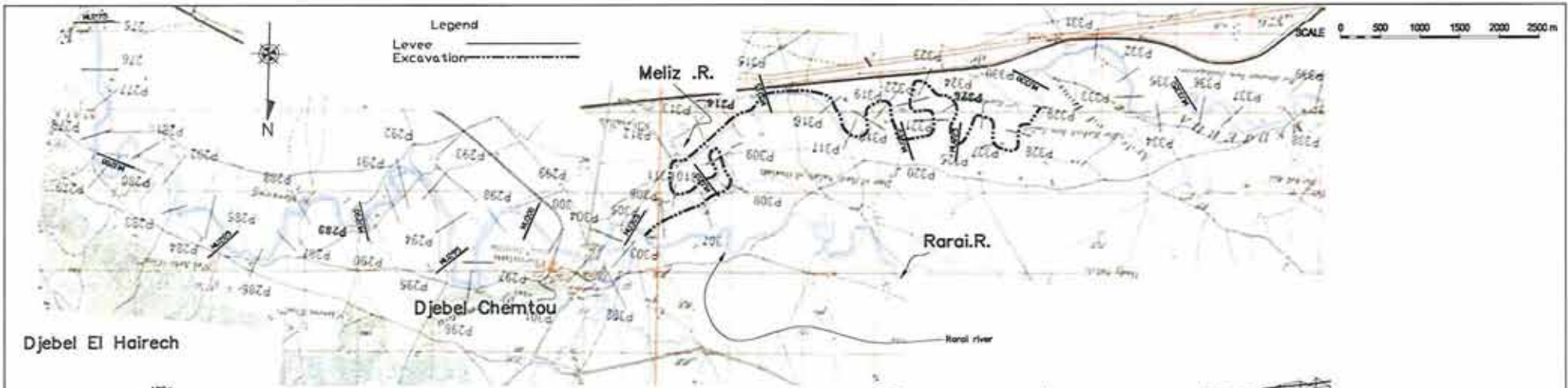
DESIGN SLOPE OF REVERBED	1:2.5
DESIGN DISCHARGE	Q=570m ³ /s (15)
DESIGN EXCAVATION WIDTH	1/2400 =0.000417
DESIGN RIVERBED ELEVATION	130.00
DESIGN SLOPE OF LEVEE CREST	
DESIGN CREST ELEVATION	
DESIGN WATER LEVEL	
ORIGINAL RIVERBED ELEVATION	
LEFT BANK GROUND ELEVATION	
RIGHT BANK GROUND ELEVATION	
ACCUMULATIVE DISTANCE	
DISTANCE	
STATION No.	
K0276	130.00
K0277	130.25
K0278	130.44
K0279	130.65
K0280	130.85
K0281	131.05
K0282	131.25
K0283	131.45
K0284	131.65
K0285	131.85
K0286	132.05
K0287	132.25
K0288	132.45
K0289	132.65
K0290	132.85
K0291	133.05
K0292	133.25
K0293	133.45
K0294	133.65
K0295	133.85
K0296	134.05
K0297	134.25
K0298	134.45
K0299	134.65
K0300	134.85
K0301	135.05
K0302	135.25
K0303	135.45
K0304	135.65
K0305	135.85
K0306	136.05
K0307	136.25
K0308	136.45
K0309	136.65
K0310	136.85
K0311	137.05
K0312	137.25
K0313	137.45
K0314	137.65
K0315	137.85
K0316	138.05
K0317	138.25
K0318	138.45
K0319	138.65
K0320	138.85
K0321	139.05
K0322	139.25
K0323	139.45
K0324	139.65
K0325	139.85
K0326	140.05
K0327	140.25
K0328	140.45
K0329	140.65
K0330	140.85
K0331	141.05
K0332	141.25
K0333	141.45
K0334	141.65
K0335	141.85
K0336	142.05
K0337	142.25
K0338	142.45
K0339	142.65
K0340	142.85
K0341	143.05
K0342	143.25
K0343	143.45
K0344	143.65
K0345	143.85
K0346	144.05
K0347	144.25
K0348	144.45
K0349	144.65
K0350	144.85
K0351	145.05
K0352	145.25
K0353	145.45
K0354	145.65
K0355	145.85
K0356	146.05
K0357	146.25
K0358	146.45
K0359	146.65
K0360	146.85
K0361	147.05
K0362	147.25
K0363	147.45
K0364	147.65
K0365	147.85
K0366	148.05
K0367	148.25
K0368	148.45
K0369	148.65
K0370	148.85
K0371	149.05
K0372	149.25
K0373	149.45
K0374	149.65
K0375	149.85
K0376	150.05
K0377	150.25
K0378	150.45
K0379	150.65
K0380	150.85
K0381	151.05
K0382	151.25
K0383	151.45
K0384	151.65
K0385	151.85
K0386	152.05
K0387	152.25
K0388	152.45
K0389	152.65
K0390	152.85
K0391	153.05
K0392	153.25
K0393	153.45
K0394	153.65
K0395	153.85
K0396	154.05
K0397	154.25
K0398	154.45
K0399	154.65
K0400	154.85

PROFILE OF MEJERDA RIVER UPSTREAM REACH (4/6)

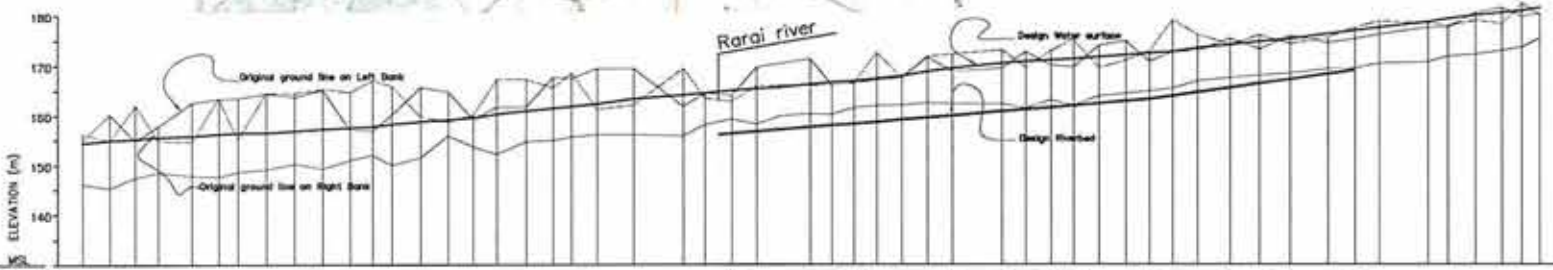


	REPUBLIC OF TUNISIA MINISTRY OF AGRICULTURE AND WATER RESOURCES DEPARTMENT OF DAMS AND LARGE HYDRALLICAL WORKS		JAPAN INTERNATIONAL COOPERATION AGENCY
	THE STUDY ON INTEGRATED BASIN MANAGEMENT FOCUSED ON FLOOD CONTROL IN MEJERDA RIVER		
DRAWING TITLE		SHEET NO.	
MEJERDA RIVER UPSTREAM REACH PLAN AND PROFILE (4/6)		E-11	
NIPPON KOGI Co., Ltd.			

DE1-12

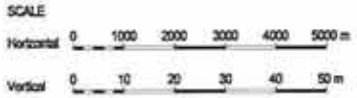


Djebel El Hairech



DESIGN SLOPE OF RIVERBED	DESIGN DISCHARGE	DESIGN EXCAVATION WIDTH
	0-700m/s (10s)	Excavation 8-10m
DESIGN RIVERBED ELEVATION		
DESIGN SLOPE OF LEVEE CREST		
DESIGN CREST ELEVATION		
DESIGN WATER LEVEL		
ORIGINAL RIVERBED ELEVATION		
LEFT BANK GROUND ELEVATION		
RIGHT BANK GROUND ELEVATION		
ACCUMULATIVE DISTANCE		
DISTANCE		
STATION No.		

PROFILE OF MEJERDA RIVER UPSTREAM REACH (5/6)



REPUBLIC OF TUNISIA
 MINISTRY OF AGRICULTURE AND WATER RESOURCES
 DEPARTMENT OF DAMS AND LARGE HYDRAULIC WORKS

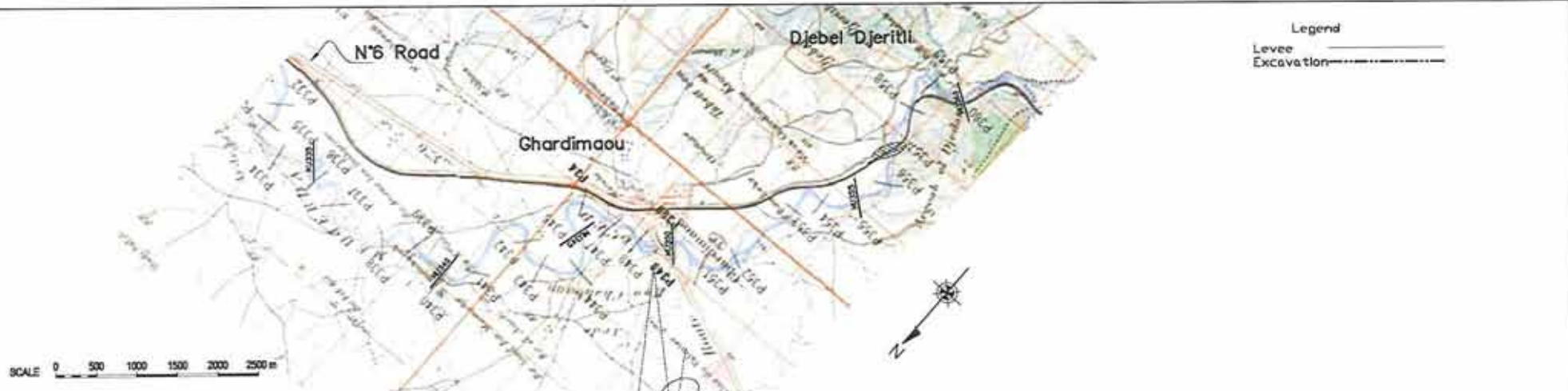
THE STUDY ON INTEGRATED BASIN MANAGEMENT
 FOCUSED ON FLOOD CONTROL IN MEJERDA RIVER

DRAWING TITLE: MEJERDA RIVER UPSTREAM REACH
 PLAN AND PROFILE (5/6)

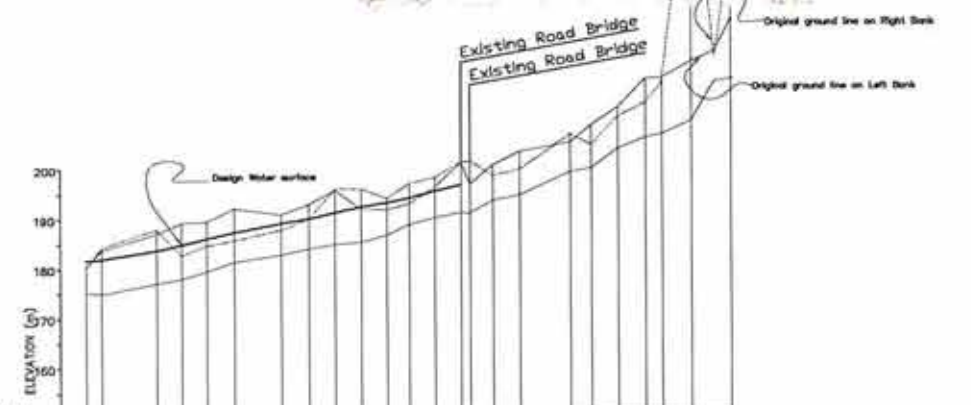
SHEET NO. E-12

NIPPON KOEI Co. Ltd.

DE1-13



Legend
 Levee —————
 Excavation - - - - -



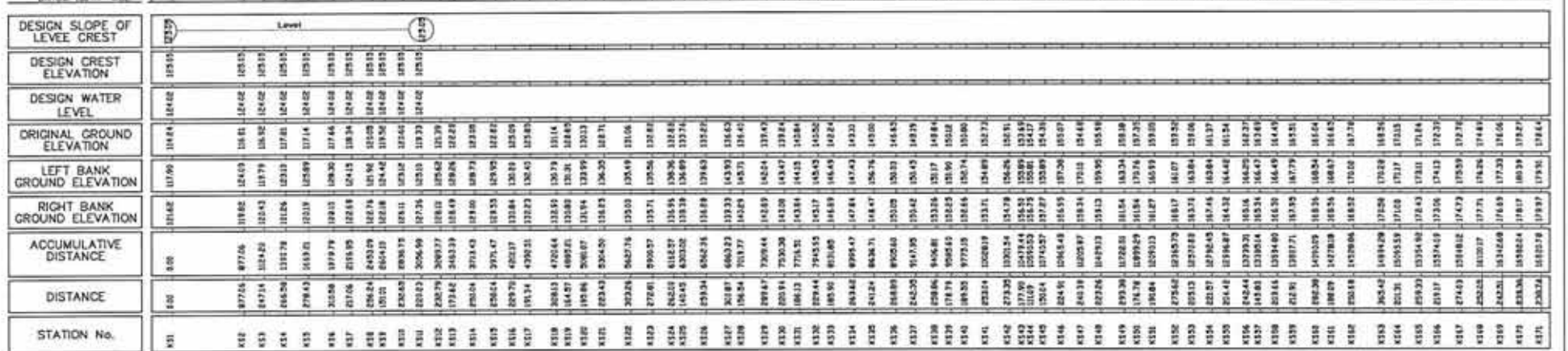
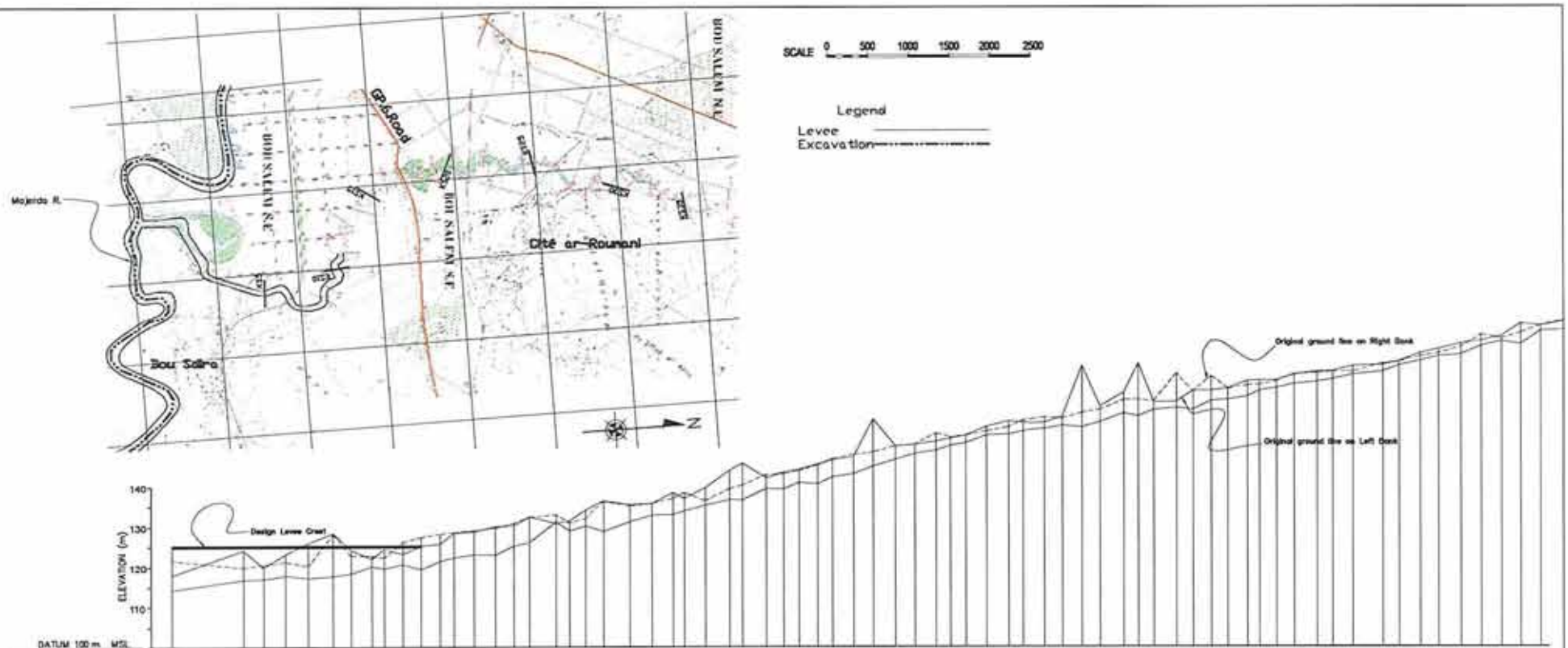
DATUM 150 m MSL	
DESIGN SCOPE OF RIVERBED	
DESIGN DISCHARGE	
DESIGN EXCAVATION WIDTH	
DESIGN RIVERBED ELEVATION	
DESIGN CREST ELEVATION	
DESIGN WATER LEVEL	178.58 182.59 183.94 185.18 186.74 188.53 190.50 192.70 195.00 197.34 199.70 202.00 204.20 206.30 208.30 210.20 212.00 213.70 215.30
ORIGINAL RIVERBED ELEVATION	175.36 174.36 173.74 172.74 171.74 170.74 169.74 168.74 167.74 166.74 165.74 164.74 163.74 162.74 161.74 160.74 159.74 158.74 157.74 156.74
LEFT BANK GROUND ELEVATION	180.00 181.00 182.00 183.00 184.00 185.00 186.00 187.00 188.00 189.00 190.00 191.00 192.00 193.00 194.00 195.00 196.00 197.00 198.00 199.00
RIGHT BANK GROUND ELEVATION	180.00 181.00 182.00 183.00 184.00 185.00 186.00 187.00 188.00 189.00 190.00 191.00 192.00 193.00 194.00 195.00 196.00 197.00 198.00 199.00
ACCUMULATIVE DISTANCE	0.00 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00 900.00 1000.00 1100.00 1200.00 1300.00 1400.00 1500.00 1600.00 1700.00 1800.00 1900.00
DISTANCE	100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00 900.00 1000.00 1100.00 1200.00 1300.00 1400.00 1500.00 1600.00 1700.00 1800.00 1900.00
STATION No.	K/206 K/207 K/208 K/209

SCALE
 Horizontal 0 1000 2000 3000 4000 5000 m
 Vertical 0 10 20 30 40 50 m

PROFILE OF MEJERDA RIVER UPSTREAM REACH (6/6)

REPUBLIC OF TUNISIA MINISTRY OF AGRICULTURE AND WATER RESOURCES DEPARTMENT OF DAMS AND LARGE HYDRAULIC WORKS		JAPAN INTERNATIONAL COOPERATION AGENCY
THE STUDY ON INTEGRATED BASIN MANAGEMENT FOCUSED ON FLOOD CONTROL IN MEJERDA RIVER		
DRAWING TITLE	MEJERDA RIVER UPSTREAM REACH PLAN AND PROFILE (6/6)	SHEET NO. E-13
NIPPON KOEI Co., Ltd.		

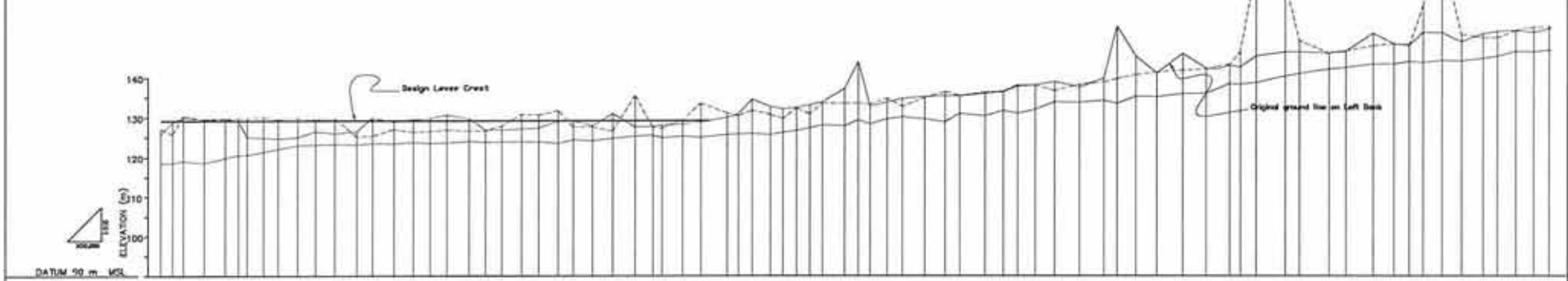
DE1-14



PROFILE OF KASSEB RIVER

REPUBLIC OF TUNISIA MINISTRY OF AGRICULTURE AND WATER RESOURCES DEPARTMENT OF DAMS AND LARGE HYDRAULIC WORKS		JAPAN INTERNATIONAL COOPERATION AGENCY
THE STUDY ON INTEGRATED BASIN MANAGEMENT FOCUSED ON FLOOD CONTROL IN MEJERDA RIVER		
DRAWING TITLE	KASSEB RIVER PLAN AND PROFILE	SHEET NO. E-14
NIPPON KOEI Co., Ltd.		

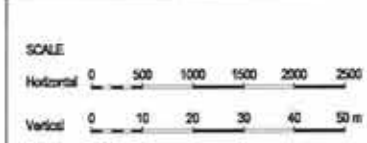
DE1-15



DESIGN SLOPE OF LEVEE CREST	1:30	
DESIGN CREST ELEVATION	129.60	
DESIGN WATER LEVEL	128.64	
ORIGINAL GROUND ELEVATION	128.44	
LEFT BANK GROUND ELEVATION	127.54	
RIGHT BANK GROUND ELEVATION	127.54	
ACCUMULATIVE DISTANCE	0.00	
DISTANCE	0.00	
STATION No.	0+00	

DESIGN SLOPE OF LEVEE CREST	1:30	
DESIGN CREST ELEVATION	129.60	129.60
DESIGN WATER LEVEL	128.64	128.64
ORIGINAL GROUND ELEVATION	128.44	128.44
LEFT BANK GROUND ELEVATION	127.54	127.54
RIGHT BANK GROUND ELEVATION	127.54	127.54
ACCUMULATIVE DISTANCE	0.00	0.00
DISTANCE	0.00	0.00
STATION No.	0+00	0+01

DESIGN SLOPE OF LEVEE CREST	1:30	
DESIGN CREST ELEVATION	129.60	129.60
DESIGN WATER LEVEL	128.64	128.64
ORIGINAL GROUND ELEVATION	128.44	128.44
LEFT BANK GROUND ELEVATION	127.54	127.54
RIGHT BANK GROUND ELEVATION	127.54	127.54
ACCUMULATIVE DISTANCE	0.00	0.00
DISTANCE	0.00	0.00
STATION No.	0+00	0+01



PROFILE OF BOU HEURTMA RIVER

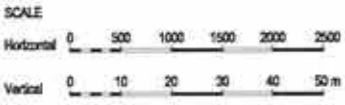
REPUBLIC OF TUNISIA MINISTRY OF AGRICULTURE AND WATER RESOURCES DEPARTMENT OF DAMS AND LARGE HYDRAULIC WORKS		JAPAN INTERNATIONAL COOPERATION AGENCY
THE STUDY ON INTEGRATED BASIN MANAGEMENT FOCUSED ON FLOOD CONTROL IN MEJERDA RIVER		
DRAWING TITLE	BOU HEURTMA RIVER PLAN AND PROFILE	SHEET NO. E-15
NIPPON KOEI Co., Ltd.		

DE1-16

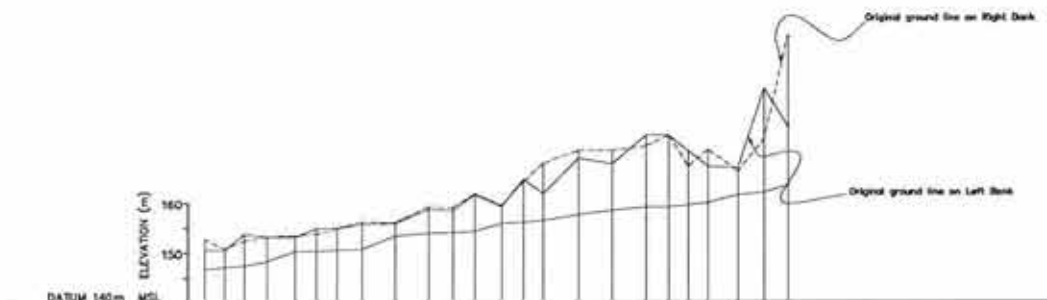
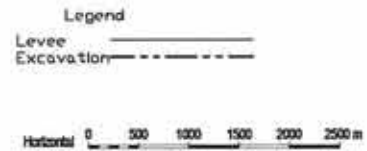


DESIGN SLOPE OF LEVEL CREST	Levee (1:2) (1:1)	
DESIGN CREST ELEVATION	133.20	133.30
DESIGN WATER LEVEL		
ORIGINAL GROUND ELEVATION	122.29	123.56
LEFT BANK GROUND ELEVATION	133.12	132.58
RIGHT BANK GROUND ELEVATION	133.22	132.11
ACCUMULATIVE DISTANCE	0.00	10.32
DISTANCE	0.00	10.32
STATION No.	111	112

PROFILE OF TESSA RIVER (1/2)

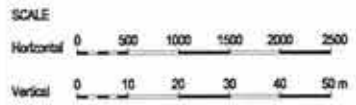


REPUBLIC OF TUNISIA MINISTRY OF AGRICULTURE AND WATER RESOURCES DEPARTMENT OF DAMS AND LARGE HYDRAULIC WORKS		JAPAN INTERNATIONAL COOPERATION AGENCY
THE STUDY ON INTEGRATED BASIN MANAGEMENT FOCUSED ON FLOOD CONTROL IN MEJERDA RIVER		
DRAWING TITLE	TESSA RIVER PLAN AND PROFILE (1/2)	SHEET NO. E-16
NIPPON KOEI Co., Ltd.		



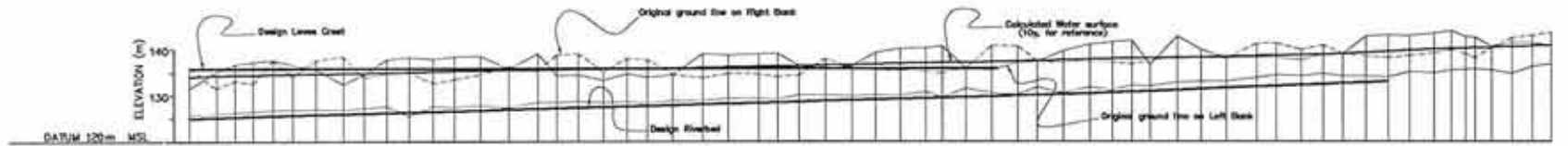
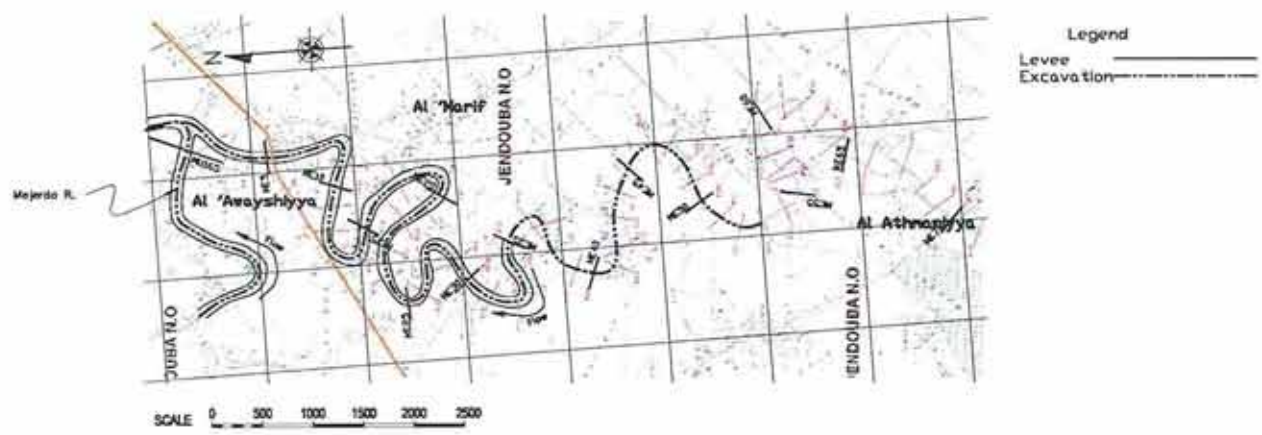
DESIGN SLOPE OF LEVEE CREST	
DESIGN CREST ELEVATION	
DESIGN WATER LEVEL	
ORIGINAL GROUND ELEVATION	147.77 152.31 152.72 152.80 152.88 152.96 153.04 153.12 153.20 153.28 153.36 153.44 153.52 153.60 153.68 153.76 153.84 153.92 154.00 154.08 154.16 154.24 154.32 154.40 154.48 154.56 154.64 154.72 154.80 154.88 154.96 155.04 155.12 155.20 155.28 155.36 155.44 155.52 155.60 155.68 155.76 155.84 155.92 156.00 156.08 156.16 156.24 156.32 156.40 156.48 156.56 156.64 156.72 156.80 156.88 156.96 157.04 157.12 157.20 157.28 157.36 157.44 157.52 157.60 157.68 157.76 157.84 157.92 158.00 158.08 158.16 158.24 158.32 158.40 158.48 158.56 158.64 158.72 158.80 158.88 158.96 159.04 159.12 159.20 159.28 159.36 159.44 159.52 159.60 159.68 159.76 159.84 159.92 160.00
LEFT BANK GROUND ELEVATION	152.31 152.72 152.80 152.88 152.96 153.04 153.12 153.20 153.28 153.36 153.44 153.52 153.60 153.68 153.76 153.84 153.92 154.00 154.08 154.16 154.24 154.32 154.40 154.48 154.56 154.64 154.72 154.80 154.88 154.96 155.04 155.12 155.20 155.28 155.36 155.44 155.52 155.60 155.68 155.76 155.84 155.92 156.00 156.08 156.16 156.24 156.32 156.40 156.48 156.56 156.64 156.72 156.80 156.88 156.96 157.04 157.12 157.20 157.28 157.36 157.44 157.52 157.60 157.68 157.76 157.84 157.92 158.00 158.08 158.16 158.24 158.32 158.40 158.48 158.56 158.64 158.72 158.80 158.88 158.96 159.04 159.12 159.20 159.28 159.36 159.44 159.52 159.60 159.68 159.76 159.84 159.92 160.00
RIGHT BANK GROUND ELEVATION	152.72 152.80 152.88 152.96 153.04 153.12 153.20 153.28 153.36 153.44 153.52 153.60 153.68 153.76 153.84 153.92 154.00 154.08 154.16 154.24 154.32 154.40 154.48 154.56 154.64 154.72 154.80 154.88 154.96 155.04 155.12 155.20 155.28 155.36 155.44 155.52 155.60 155.68 155.76 155.84 155.92 156.00 156.08 156.16 156.24 156.32 156.40 156.48 156.56 156.64 156.72 156.80 156.88 156.96 157.04 157.12 157.20 157.28 157.36 157.44 157.52 157.60 157.68 157.76 157.84 157.92 158.00 158.08 158.16 158.24 158.32 158.40 158.48 158.56 158.64 158.72 158.80 158.88 158.96 159.04 159.12 159.20 159.28 159.36 159.44 159.52 159.60 159.68 159.76 159.84 159.92 160.00
ACCUMULATIVE DISTANCE	1443.00 1443.50 1444.00 1444.50 1445.00 1445.50 1446.00 1446.50 1447.00 1447.50 1448.00 1448.50 1449.00 1449.50 1450.00 1450.50 1451.00 1451.50 1452.00 1452.50 1453.00 1453.50 1454.00 1454.50 1455.00 1455.50 1456.00 1456.50 1457.00 1457.50 1458.00 1458.50 1459.00 1459.50 1460.00 1460.50 1461.00 1461.50 1462.00 1462.50 1463.00 1463.50 1464.00 1464.50 1465.00 1465.50 1466.00 1466.50 1467.00 1467.50 1468.00 1468.50 1469.00 1469.50 1470.00 1470.50 1471.00 1471.50 1472.00 1472.50 1473.00 1473.50 1474.00 1474.50 1475.00 1475.50 1476.00 1476.50 1477.00 1477.50 1478.00 1478.50 1479.00 1479.50 1480.00 1480.50 1481.00 1481.50 1482.00 1482.50 1483.00 1483.50 1484.00 1484.50 1485.00 1485.50 1486.00 1486.50 1487.00 1487.50 1488.00 1488.50 1489.00 1489.50 1490.00 1490.50 1491.00 1491.50 1492.00 1492.50 1493.00 1493.50 1494.00 1494.50 1495.00 1495.50 1496.00 1496.50 1497.00 1497.50 1498.00 1498.50 1499.00 1499.50 1500.00
DISTANCE	10.50 11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50 15.00 15.50 16.00 16.50 17.00 17.50 18.00 18.50 19.00 19.50 20.00 20.50 21.00 21.50 22.00 22.50 23.00 23.50 24.00 24.50 25.00 25.50 26.00 26.50 27.00 27.50 28.00 28.50 29.00 29.50 30.00 30.50 31.00 31.50 32.00 32.50 33.00 33.50 34.00 34.50 35.00 35.50 36.00 36.50 37.00 37.50 38.00 38.50 39.00 39.50 40.00 40.50 41.00 41.50 42.00 42.50 43.00 43.50 44.00 44.50 45.00 45.50 46.00 46.50 47.00 47.50 48.00 48.50 49.00 49.50 50.00
STATION No.	1514 1515 1516 1517 1518 1519 1520 1521 1522 1523 1524 1525 1526 1527 1528 1529 1530 1531 1532 1533 1534 1535 1536 1537 1538 1539 1540 1541 1542 1543 1544 1545 1546 1547 1548 1549 1550 1551 1552 1553 1554 1555 1556 1557 1558 1559 1560 1561 1562 1563 1564 1565 1566 1567 1568 1569 1570 1571 1572 1573 1574 1575 1576 1577 1578 1579 1580 1581 1582 1583 1584 1585 1586 1587 1588 1589 1590 1591 1592 1593 1594 1595 1596 1597 1598 1599 1600

PROFILE OF TESSA RIVER (2/2)



REPUBLIC OF TUNISIA MINISTRY OF AGRICULTURE AND WATER RESOURCES DEPARTMENT OF DAMS AND LARGE HYDRAULIC WORKS		JAPAN INTERNATIONAL COOPERATION AGENCY
THE STUDY ON INTEGRATED BASIN MANAGEMENT FOCUSED ON FLOOD CONTROL IN MEJERDA RIVER		
DRAWING TITLE	TESSA RIVER PLAN AND PROFILE (2/2)	SHEET NO. E-17
NIPPON KOEI Co., Ltd.		

DE-1-18

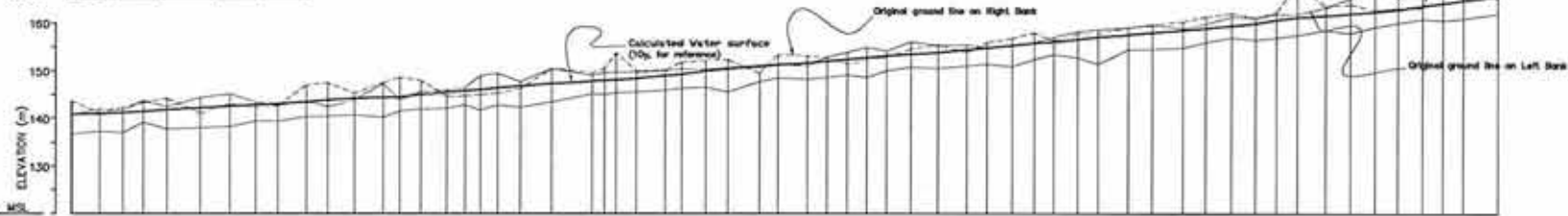
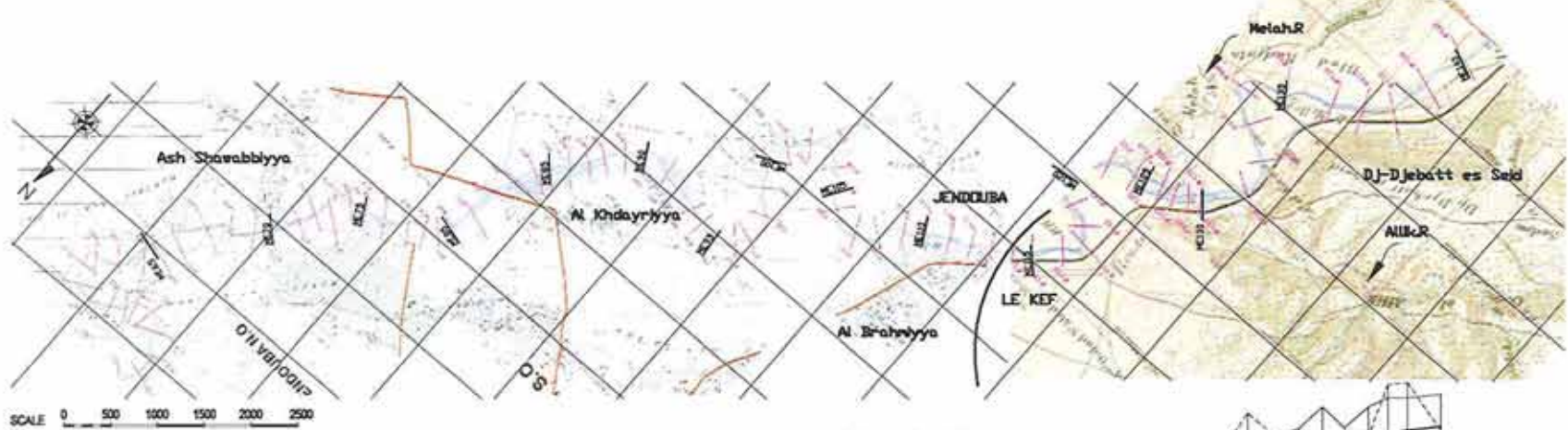


DESIGN SLOPE OF RIVERBED	1:2.5		Excavation 0-10m		Excavation 0-10m		1:2.5	
DESIGN RIVERBED ELEVATION	131.00	131.16	131.27	131.33	131.41	131.47	131.52	131.57
DESIGN SLOPE OF LEVEL CREST	1:2.5							
DESIGN CREST ELEVATION	131.81	131.81	131.81	131.81	131.81	131.81	131.81	131.81
CALCULATED WATER LEVEL (10y)	131.67	131.76	131.82	131.87	131.91	131.94	131.97	132.00
ORIGINAL GROUND ELEVATION	131.65	131.74	131.80	131.85	131.89	131.92	131.95	131.98
LEFT BANK GROUND ELEVATION	131.59	131.52	131.46	131.40	131.34	131.28	131.22	131.16
RIGHT BANK GROUND ELEVATION	131.69	131.72	131.75	131.78	131.81	131.84	131.87	131.90
ACCUMULATIVE DISTANCE	0.00	0.33	0.66	1.00	1.33	1.67	2.00	2.33
DISTANCE	0.00	0.33	0.66	1.00	1.33	1.67	2.00	2.33
STATION No.	K01	K02	K03	K04	K05	K06	K07	K08

PROFILE OF MELLEGUE RIVER (1/3)

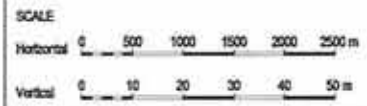


REPUBLIC OF TUNISIA MINISTRY OF AGRICULTURE AND WATER RESOURCES DEPARTMENT OF DAMS AND LARGE HYDRAULIC WORKS		JAPAN INTERNATIONAL COOPERATION AGENCY
THE STUDY ON INTEGRATED BASIN MANAGEMENT FOCUSED ON FLOOD CONTROL IN MEJERDA RIVER		
DRAWING TITLE	MELLEGUE RIVER PLAN AND PROFILE (1/3)	SHEET NO. E-18
NIPPON KOEI Co., Ltd.		



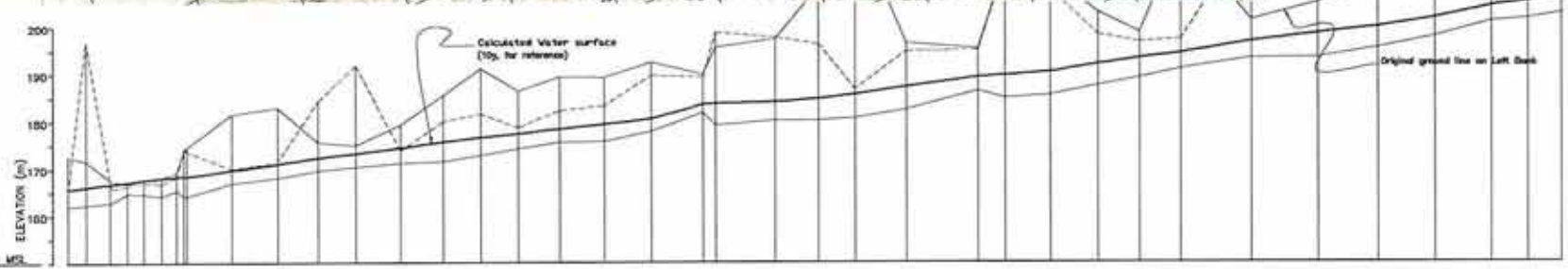
DESIGN SLOPE OF RIVERBED																
DESIGN RIVERBED ELEVATION																
DESIGN SLOPE OF LEVEE CREST																
DESIGN CREST ELEVATION																
CALCULATED WATER LEVEL (10y)	144.81	144.97	145.14	145.31	145.48	145.65	145.82	145.99	146.16	146.33	146.50	146.67	146.84	147.01	147.18	147.35
ORIGINAL GROUND ELEVATION	141.10	141.25	141.40	141.55	141.70	141.85	142.00	142.15	142.30	142.45	142.60	142.75	142.90	143.05	143.20	143.35
LEFT BANK GROUND ELEVATION	141.10	141.25	141.40	141.55	141.70	141.85	142.00	142.15	142.30	142.45	142.60	142.75	142.90	143.05	143.20	143.35
RIGHT BANK GROUND ELEVATION	141.10	141.25	141.40	141.55	141.70	141.85	142.00	142.15	142.30	142.45	142.60	142.75	142.90	143.05	143.20	143.35
ACCUMULATIVE DISTANCE	0.00	150.00	300.00	450.00	600.00	750.00	900.00	1050.00	1200.00	1350.00	1500.00	1650.00	1800.00	1950.00	2100.00	2250.00
DISTANCE	150.00	300.00	450.00	600.00	750.00	900.00	1050.00	1200.00	1350.00	1500.00	1650.00	1800.00	1950.00	2100.00	2250.00	2400.00
STATION No.	4061	4062	4063	4064	4065	4066	4067	4068	4069	4070	4071	4072	4073	4074	4075	4076

PROFILE OF MELLEGUE RIVER (2/3)



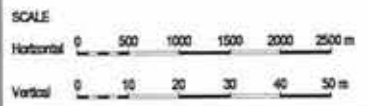
REPUBLIC OF TUNISIA		JAPAN INTERNATIONAL COOPERATION AGENCY	
MINISTRY OF AGRICULTURE AND WATER RESOURCES		DEPARTMENT OF DAMS AND LARGE HYDRAULIC WORKS	
THE STUDY ON INTEGRATED BASIN MANAGEMENT FOCUSED ON FLOOD CONTROL IN MEJERDA RIVER			
DRAWING TITLE		SHEET NO.	
MELLEGUE RIVER PLAN AND PROFILE (2/3)		E-19	
NIPPON KOEI Co., Ltd.			

DE1-20

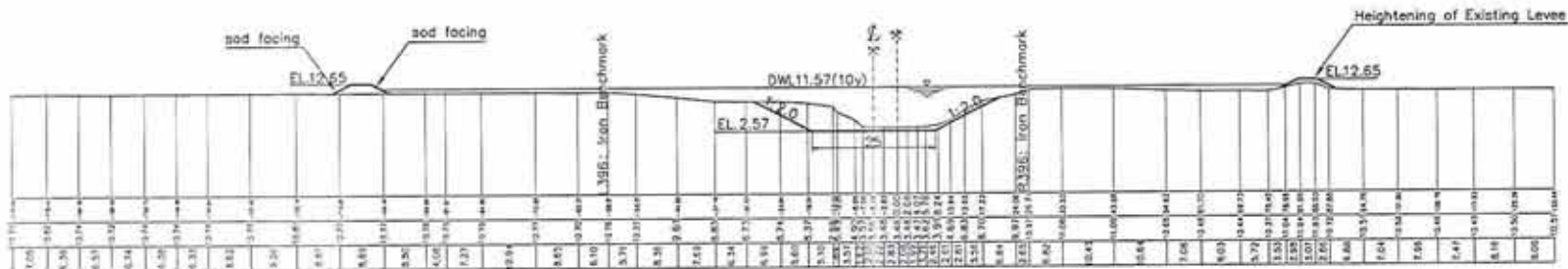


DESIGN SLOPE OF RIVERBED	
DESIGN RIVERBED ELEVATION	
DESIGN SLOPE OF LEVEE CREST	
DESIGN CREST ELEVATION	
CALCULATED WATER LEVEL (10y)	162.51 164.51 166.51 168.51 170.51 172.51 174.51 176.51 178.51 180.51 182.51 184.51 186.51 188.51 190.51 192.51 194.51 196.51 198.51 200.51
ORIGINAL GROUND ELEVATION	161.10 162.20 163.30 164.40 165.50 166.60 167.70 168.80 169.90 171.00 172.10 173.20 174.30 175.40 176.50 177.60 178.70 179.80 180.90 182.00 183.10
LEFT BANK GROUND ELEVATION	162.10 163.20 164.30 165.40 166.50 167.60 168.70 169.80 170.90 172.00 173.10 174.20 175.30 176.40 177.50 178.60 179.70 180.80 181.90 183.00 184.10
RIGHT BANK GROUND ELEVATION	163.10 164.20 165.30 166.40 167.50 168.60 169.70 170.80 171.90 173.00 174.10 175.20 176.30 177.40 178.50 179.60 180.70 181.80 182.90 184.00 185.10
ACCUMULATIVE DISTANCE	0.00 100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00 900.00 1000.00 1100.00 1200.00 1300.00 1400.00 1500.00 1600.00 1700.00 1800.00 1900.00
DISTANCE	100.00 200.00 300.00 400.00 500.00 600.00 700.00 800.00 900.00 1000.00 1100.00 1200.00 1300.00 1400.00 1500.00 1600.00 1700.00 1800.00 1900.00 2000.00
STATION No.	0201 0202 0203 0204 0205 0206 0207 0208 0209 0210 0211 0212 0213 0214 0215 0216 0217 0218 0219 0220 0221

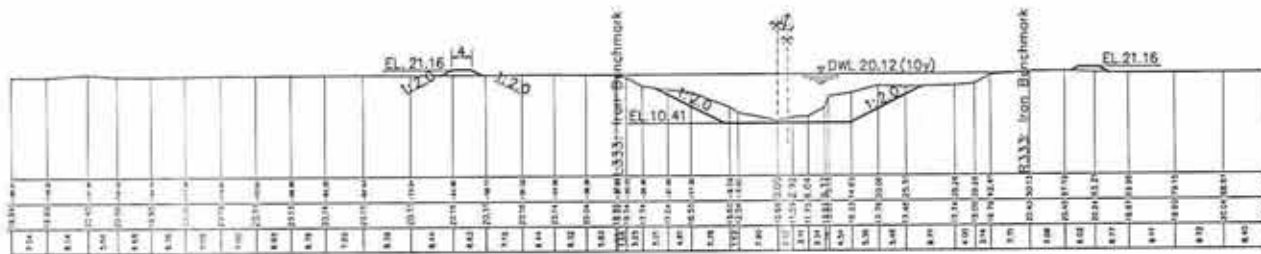
PROFILE OF MELLEGUE RIVER (3/3)



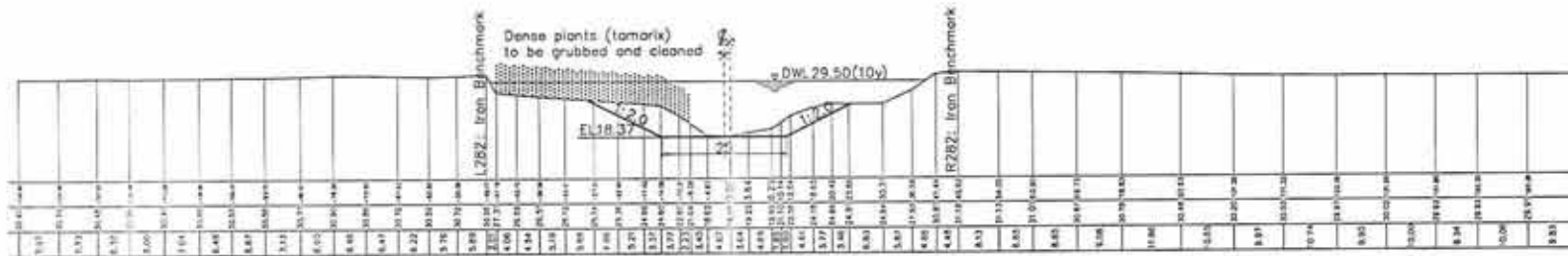
REPUBLIC OF TUNISIA MINISTRY OF AGRICULTURE AND WATER RESOURCES DEPARTMENT OF DAMS AND LARGE HYDRAULIC WORKS		JAPAN INTERNATIONAL COOPERATION AGENCY
THE STUDY ON INTEGRATED BASIN MANAGEMENT FOCUSED ON FLOOD CONTROL IN MEJERDA RIVER		
DRAWING TITLE MELLEGUE RIVER PLAN AND PROFILE (30)	SHEET NO. E-20	
NIPPON KOEI Co., Ltd.		



MD 396



MD 333

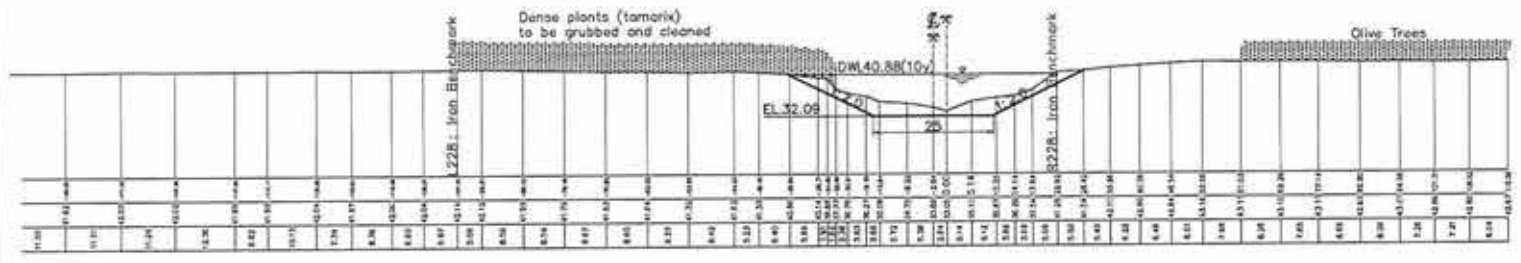


MD 282

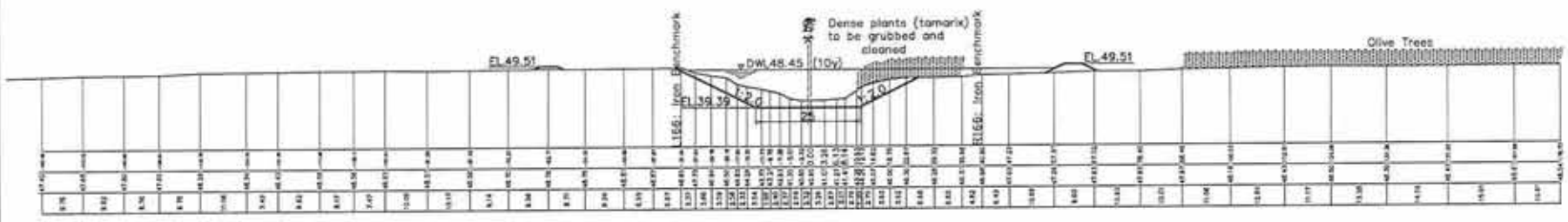


REPUBLIC OF TUNISIA MINISTRY OF AGRICULTURE AND WATER RESOURCES DEPARTMENT OF DAMS AND LARGE HYDRAULIC WORKS		JAPAN INTERNATIONAL COOPERATION AGENCY
THE STUDY ON INTEGRATED BASIN MANAGEMENT FOCUSED ON FLOOD CONTROL IN MEJERDA RIVER		
DRAWING TITLE	TYPICAL SECTIONS OF MEJERDA RIVER (1/4)	SHEET NO. E-21
NIPPON KOEI Co., Ltd.		

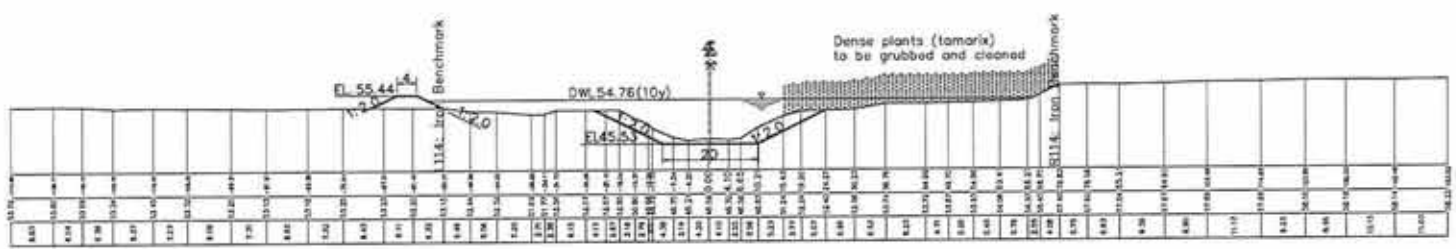
DE1-22



MD 228



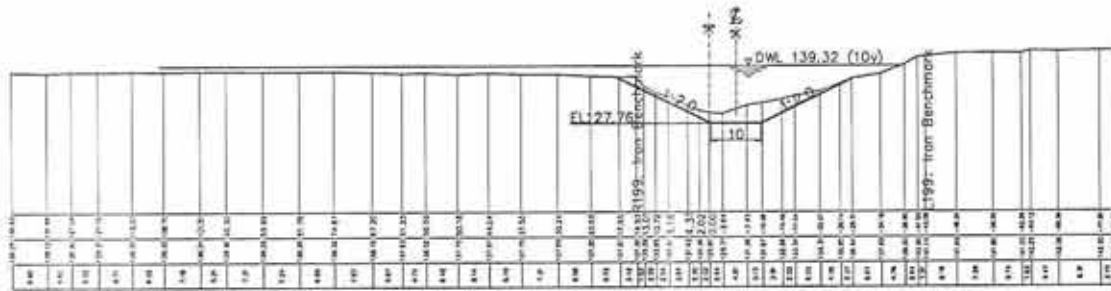
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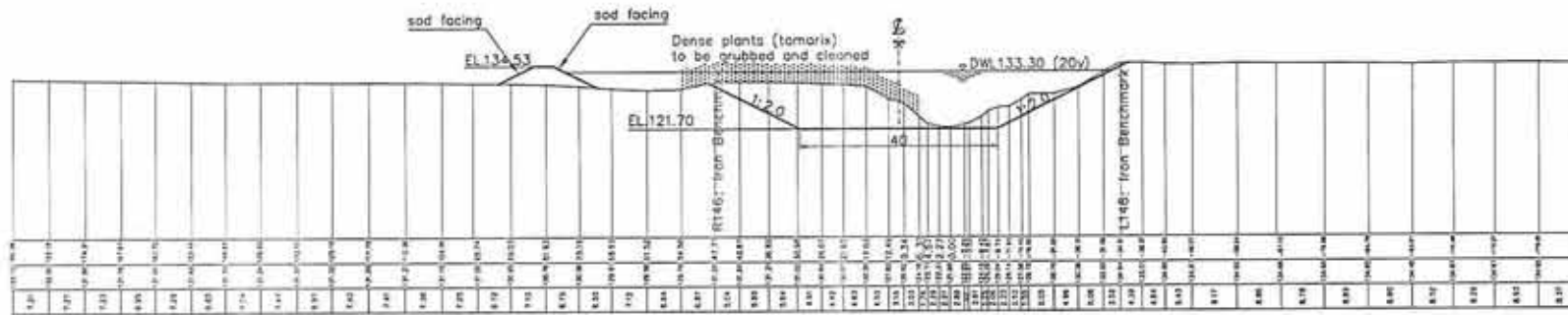
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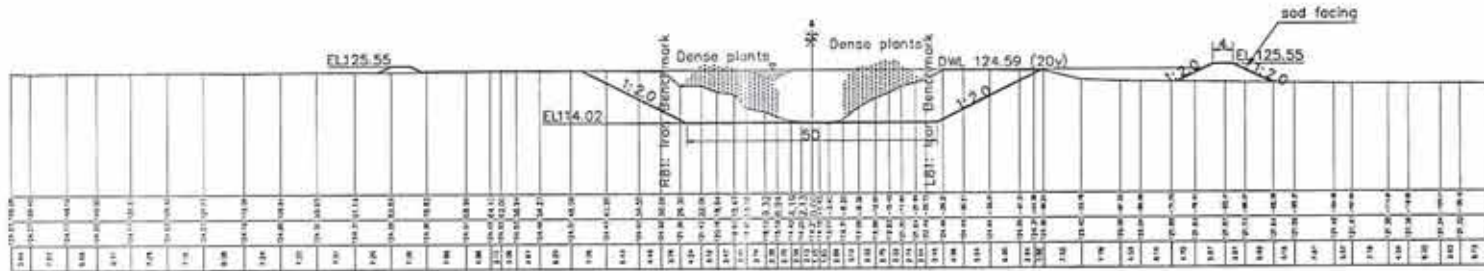
REPUBLIC OF TUNISIA MINISTRY OF AGRICULTURE AND WATER RESOURCES DEPARTMENT OF DAMS AND LARGE HYDRAULIC WORKS		JAPAN INTERNATIONAL COOPERATION AGENCY
THE STUDY ON INTEGRATED BASIN MANAGEMENT FOCUSED ON FLOOD CONTROL IN MEJERDA RIVER		
DRAWING TITLE	TYPICAL SECTIONS OF MEJERDA RIVER (2/4)	SHEET NO. E-22
NIPPON KOEI Co., Ltd.		



MU 199



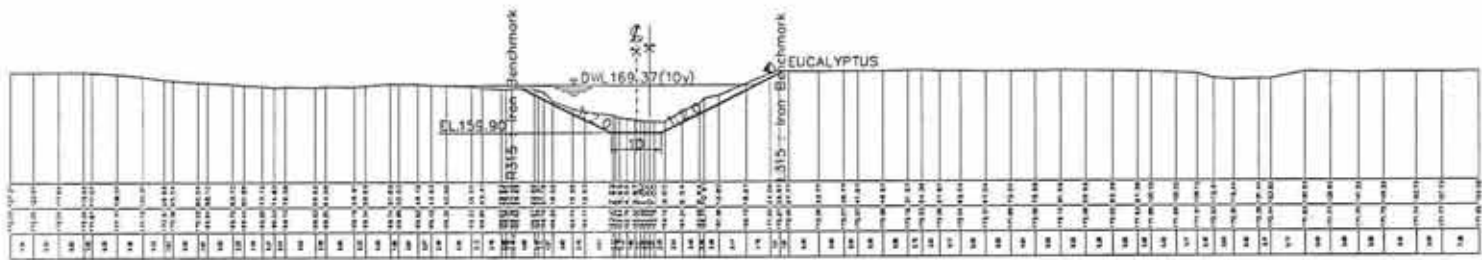
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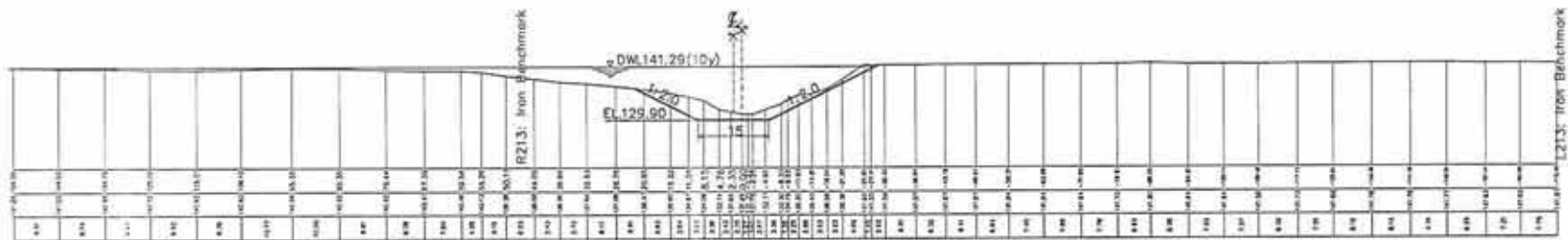
MU 81

SCALE 0 10 20 30 40 50 m

REPUBLIC OF TUNISIA MINISTRY OF AGRICULTURE AND WATER RESOURCES DEPARTMENT OF DAMS AND LARGE HYDRAULIC WORKS		JAPAN INTERNATIONAL COOPERATION AGENCY
THE STUDY ON INTEGRATED BASIN MANAGEMENT FOCUSED ON FLOOD CONTROL IN MEJERDA RIVER		
DRAWING TITLE	TYPICAL SECTIONS OF MEJERDA RIVER (3/4)	SHEET NO E-23
NIPPON KOEI Co., Ltd.		



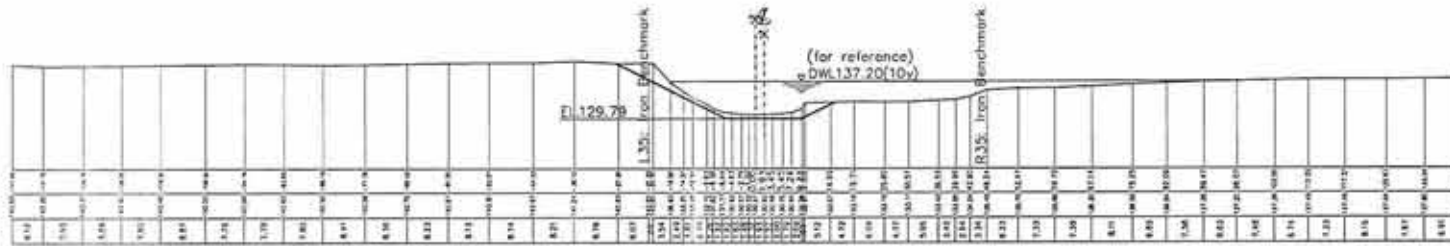
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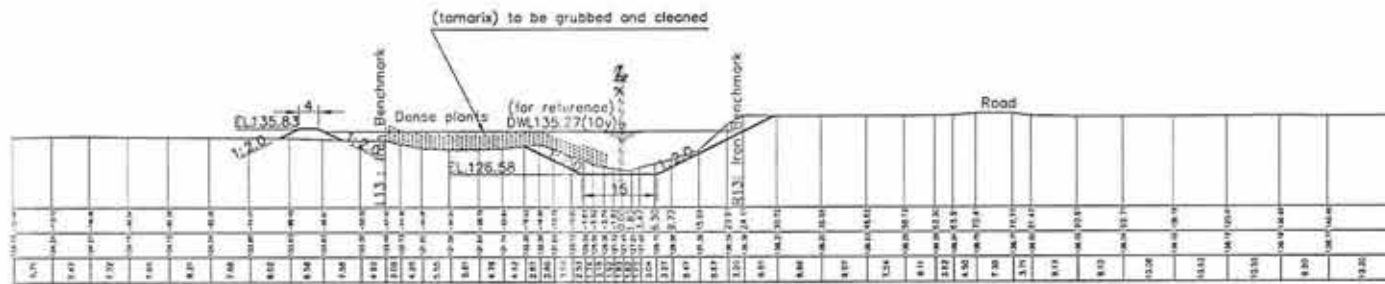
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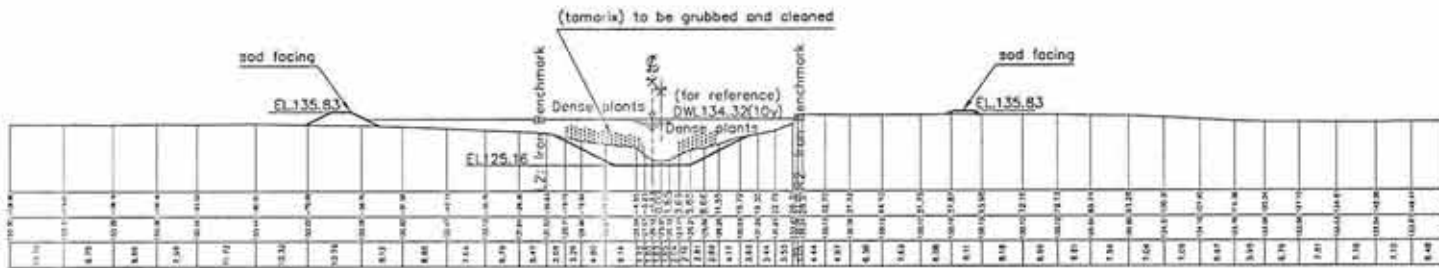
REPUBLIC OF TUNISIA MINISTRY OF AGRICULTURE AND WATER RESOURCES DEPARTMENT OF DAMS AND LARGE HYDRAULIC WORKS		JAPAN INTERNATIONAL COOPERATION AGENCY
THE STUDY ON INTEGRATED BASIN MANAGEMENT FOCUSED ON FLOOD CONTROL IN MEJERDA RIVER		
DRAWING TITLE	TYPICAL SECTIONS OF MEJERDA RIVER (44)	SHEET NO E-24
NIPPON KOEI Co., Ltd.		



ME 35



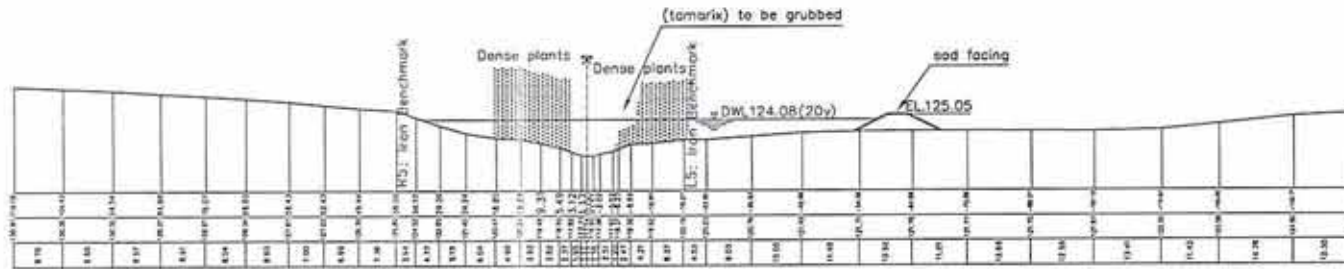
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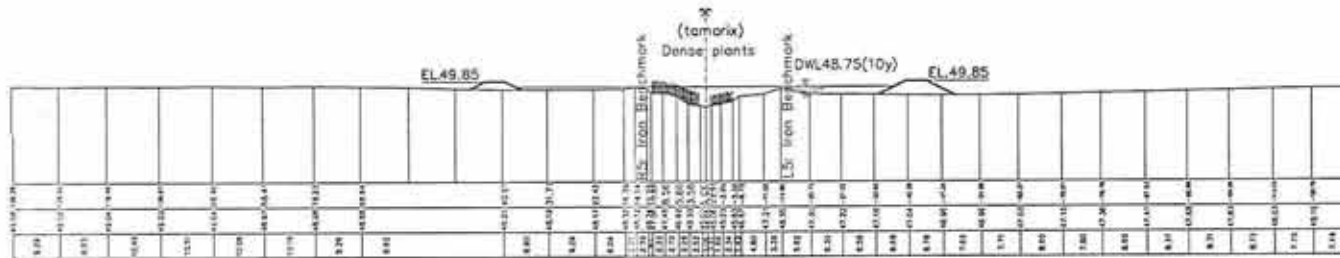
ME 2

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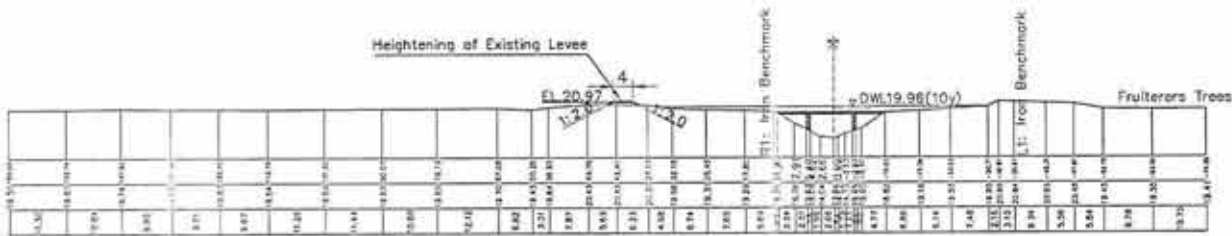
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THE STUDY ON INTEGRATED BASIN MANAGEMENT FOCUSED ON FLOOD CONTROL IN MEJERDA RIVER		
DRAWING TITLE	TYPICAL SECTIONS OF MELLEJUE RIVER	SHEET NO. E-25
NIPPON KOEI Co., Ltd.		



KASSEB RIVER 5



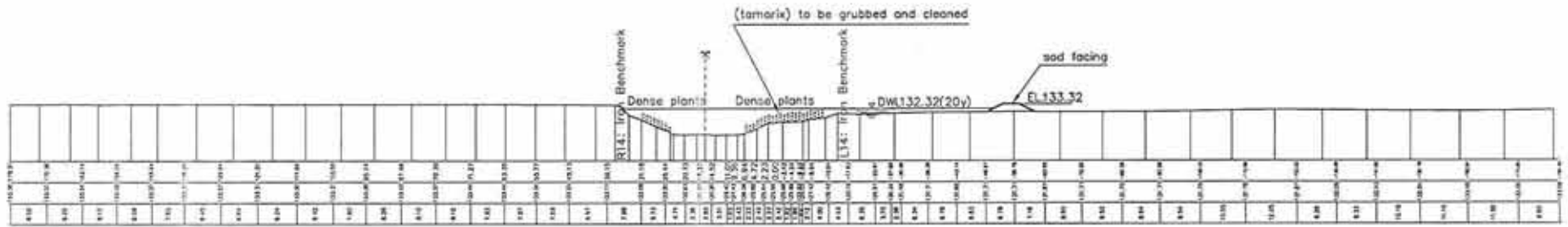
LAHMAR RIVER 5



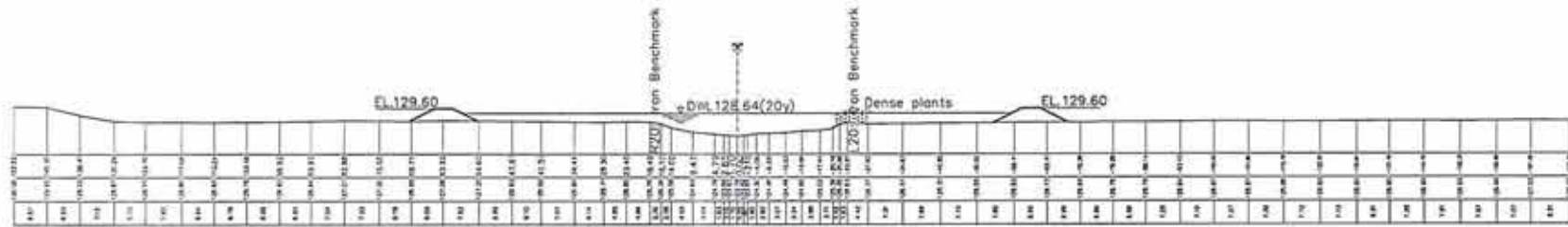
CHAFFROU RIVER 1

SCALE 0 10 20 30 40 50 m

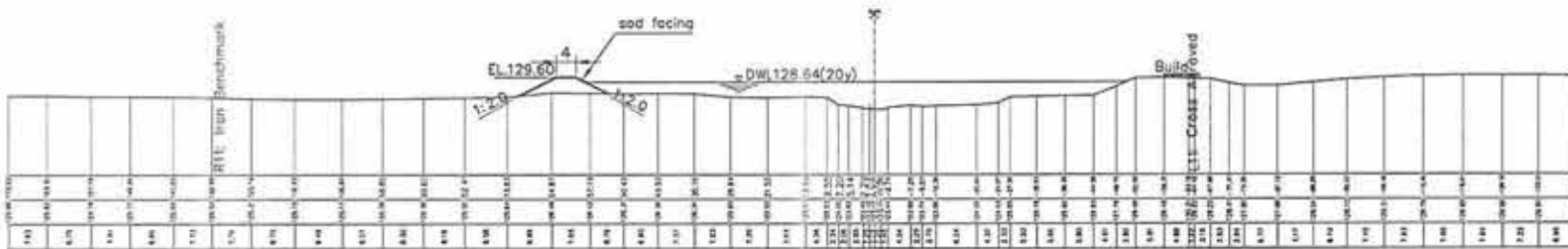
REPUBLIC OF TUNISIA MINISTRY OF AGRICULTURE AND WATER RESOURCES DEPARTMENT OF DAMS AND LARGE HYDRAULIC WORKS		JAPAN INTERNATIONAL COOPERATION AGENCY
THE STUDY ON INTEGRATED BASIN MANAGEMENT FOCUSED ON FLOOD CONTROL IN MEJERDA RIVER		
DRAWING TITLE	TYPICAL SECTION OF CHAFFROU RIVER TYPICAL SECTION OF LAHMAR RIVER TYPICAL SECTION OF KASSEB RIVER	SHEET NO. E-26
NIPPON KOEI Co., Ltd.		



TESSA RIVER 15



BOU HEURTMA RIVER 20

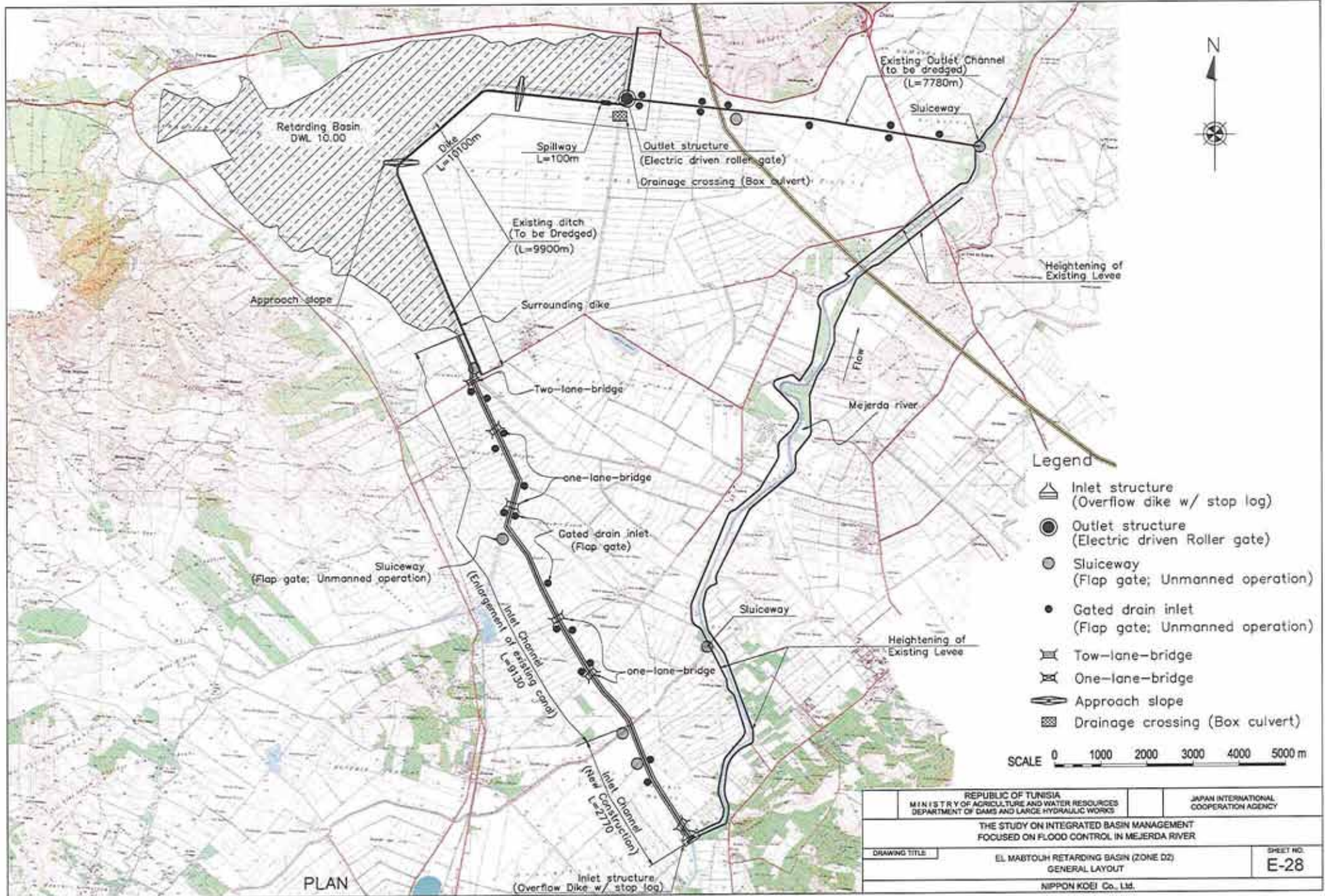


BOU HEURTMA RIVER 11

SCALE 0 10 20 30 40 50 m

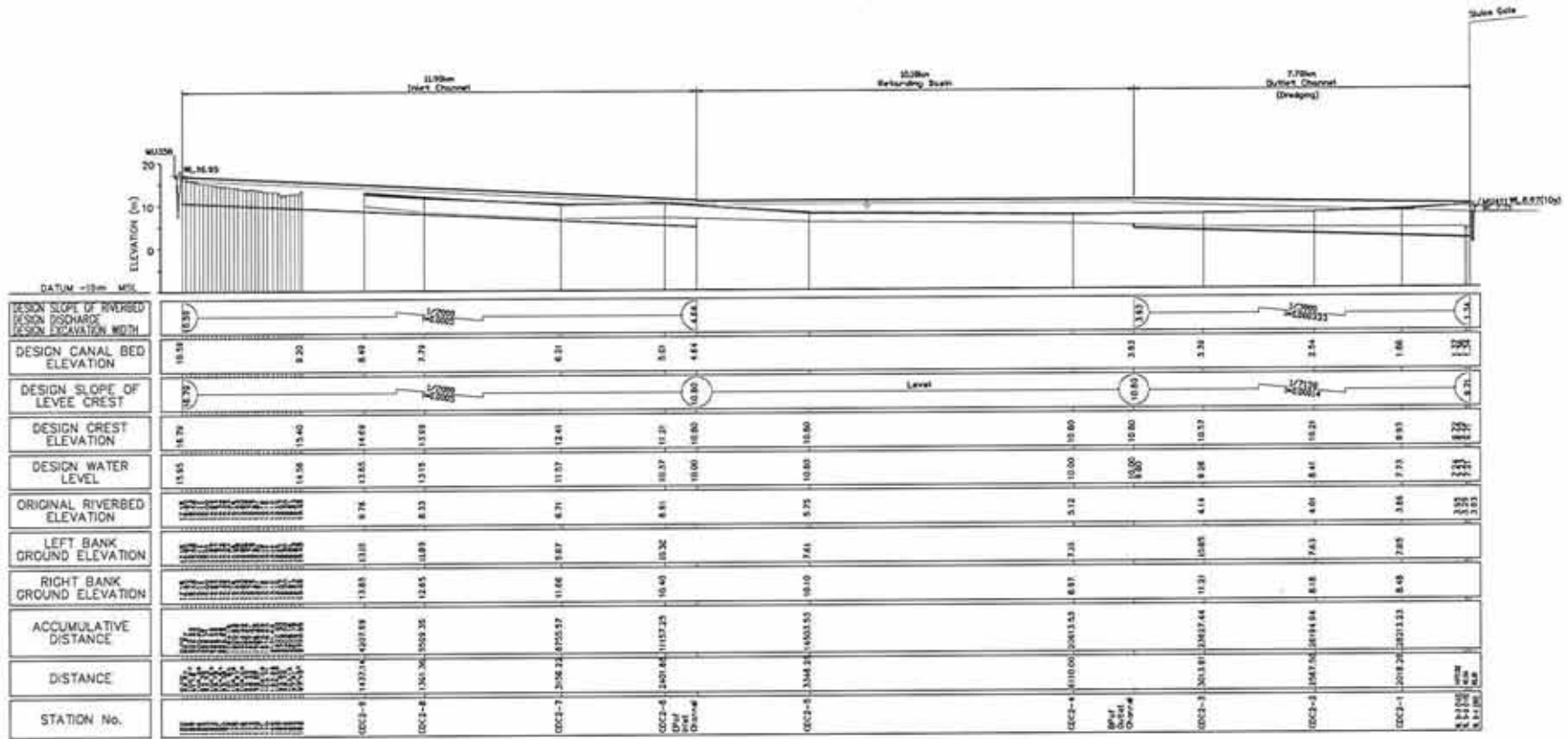
REPUBLIC OF TUNISIA MINISTRY OF AGRICULTURE AND WATER RESOURCES DEPARTMENT OF DAMS AND LARGE HYDRAULIC WORKS		JAPAN INTERNATIONAL COOPERATION AGENCY
THE STUDY ON INTEGRATED BASIN MANAGEMENT FOCUSED ON FLOOD CONTROL IN MEJERDA RIVER		
DRAWING TITLE	TYPICAL SECTIONS OF BOU HEURTMA RIVER TYPICAL SECTION OF TESSA RIVER	SHEET NO E-27
NIPPON KOEI Co., Ltd.		

DE1-28

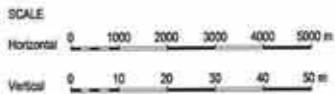


PLAN

REPUBLIC OF TUNISIA MINISTRY OF AGRICULTURE AND WATER RESOURCES DEPARTMENT OF DAMS AND LARGE HYDRAULIC WORKS		JAPAN INTERNATIONAL COOPERATION AGENCY
THE STUDY ON INTEGRATED BASIN MANAGEMENT FOCUSED ON FLOOD CONTROL IN MEJERDA RIVER		
DRAWING TITLE	EL MABROUH RETARDING BASIN (ZONE D2) GENERAL LAYOUT	SHEET NO. E-28
NIPPON KOEI Co., Ltd.		

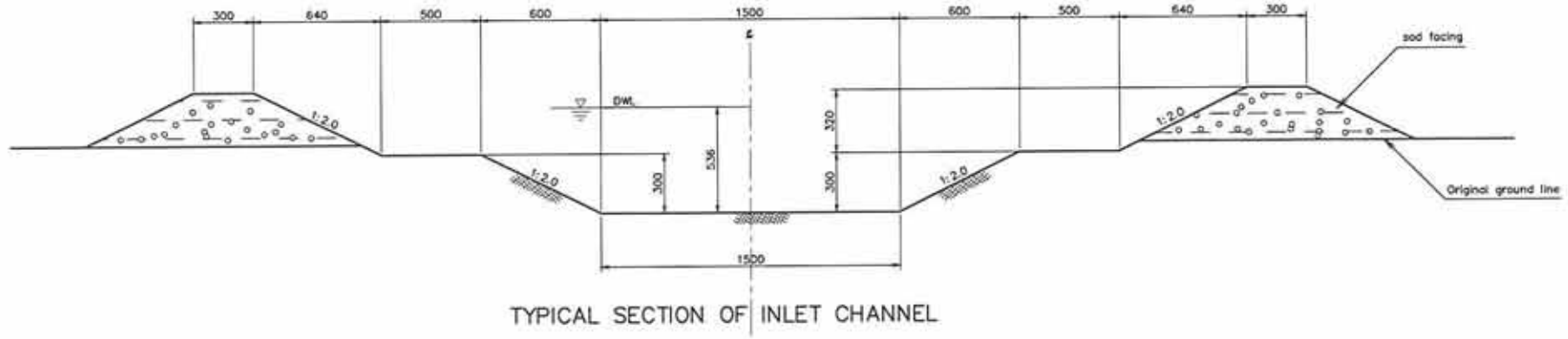


PROFILE OF INLET AND OUTLET CHANNEL OF EL MABTOUH RETARDING POND

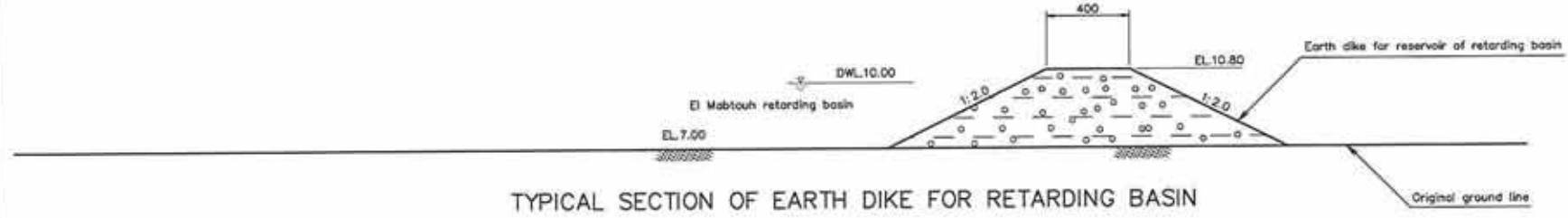


REPUBLIC OF TUNISIA MINISTRY OF AGRICULTURE AND WATER RESOURCES DEPARTMENT OF DAMS AND LARGE HYDRAULIC WORKS		JAPAN INTERNATIONAL COOPERATION AGENCY
THE STUDY ON INTEGRATED BASIN MANAGEMENT FOCUSED ON FLOOD CONTROL IN MEJERDA RIVER		
DRAWING TITLE	EL MABTOUH RETARDING BASIN (ZONE D2) PROFILE OF INLET TO OUTLET CHANNEL	SHEET NO. E-29
NIPPON KOEI Co., Ltd.		

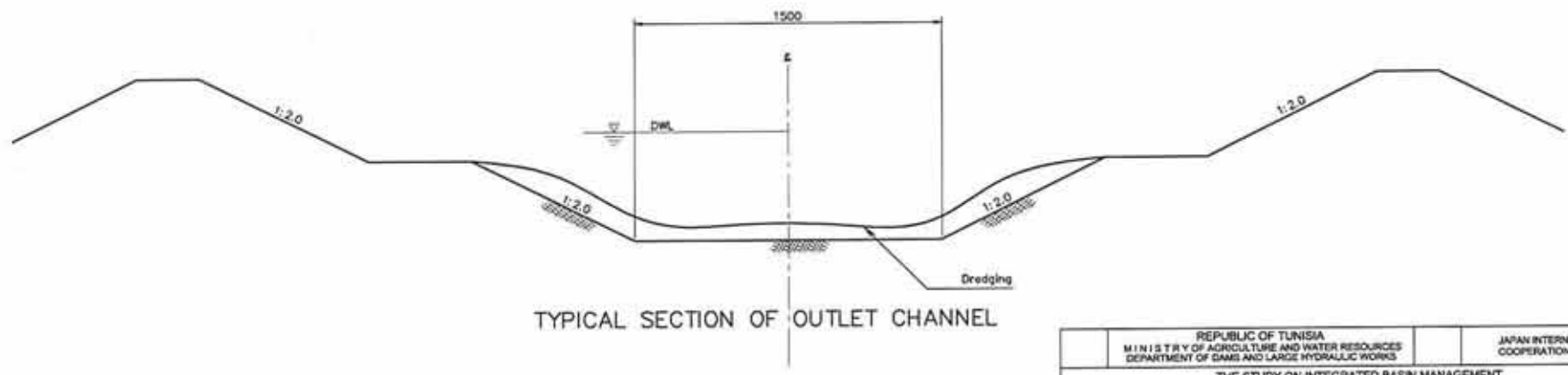
DE1-30



TYPICAL SECTION OF INLET CHANNEL



TYPICAL SECTION OF EARTH DIKE FOR RETARDING BASIN



TYPICAL SECTION OF OUTLET CHANNEL

REPUBLIC OF TUNISIA MINISTRY OF AGRICULTURE AND WATER RESOURCES DEPARTMENT OF DAMS AND LARGE HYDRAULIC WORKS		JAPAN INTERNATIONAL COOPERATION AGENCY
THE STUDY ON INTEGRATED BASIN MANAGEMENT FOCUSED ON FLOOD CONTROL IN MEJERDA RIVER		
DRAWING TITLE: EL MABTOUH RETARDING BASIN (ZONE D2) INTEL STRUCTURE OF RETARDING BASIN-OVERFLOW DIKE WITH STOP LOG TYPICAL SECTIONS FOR EARTHWORKS		SHEET NO. E-30
NIPPON KOEI Co., Ltd.		