

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)

THE DETAILED DESIGN
ON
PORT REACTIVATION PROJECT IN LA UNION PROVINCE
OF
THE REPUBLIC OF EL SALVADOR

FINAL REPORT

QUANTITY CALCULATION REPORT

Civil Works (1/4)

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OCTOBER 2002

NIPPON KOEI CO., LTD.

THE DETAILED DESIGN ON
PORT REACTIVATION PROJECT IN LA UNION PROVINCE
OF THE REPUBLIC OF EL SALVADOR

FINAL REPORT

QUANTITY CALCULATION REPORT
Civil Works (1/4)

OCTOBER 2002

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JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)

**THE DETAILED DESIGN
ON
PORT REACTIVATION PROJECT IN LA UNION PROVINCE
OF
THE REPUBLIC OF EL SALVADOR**

FINAL REPORT

QUANTITY CALCULATION REPORT

Civil Works (1/4)

OCTOBER 2002

NIPPON KOEI CO., LTD.



1169703(4)

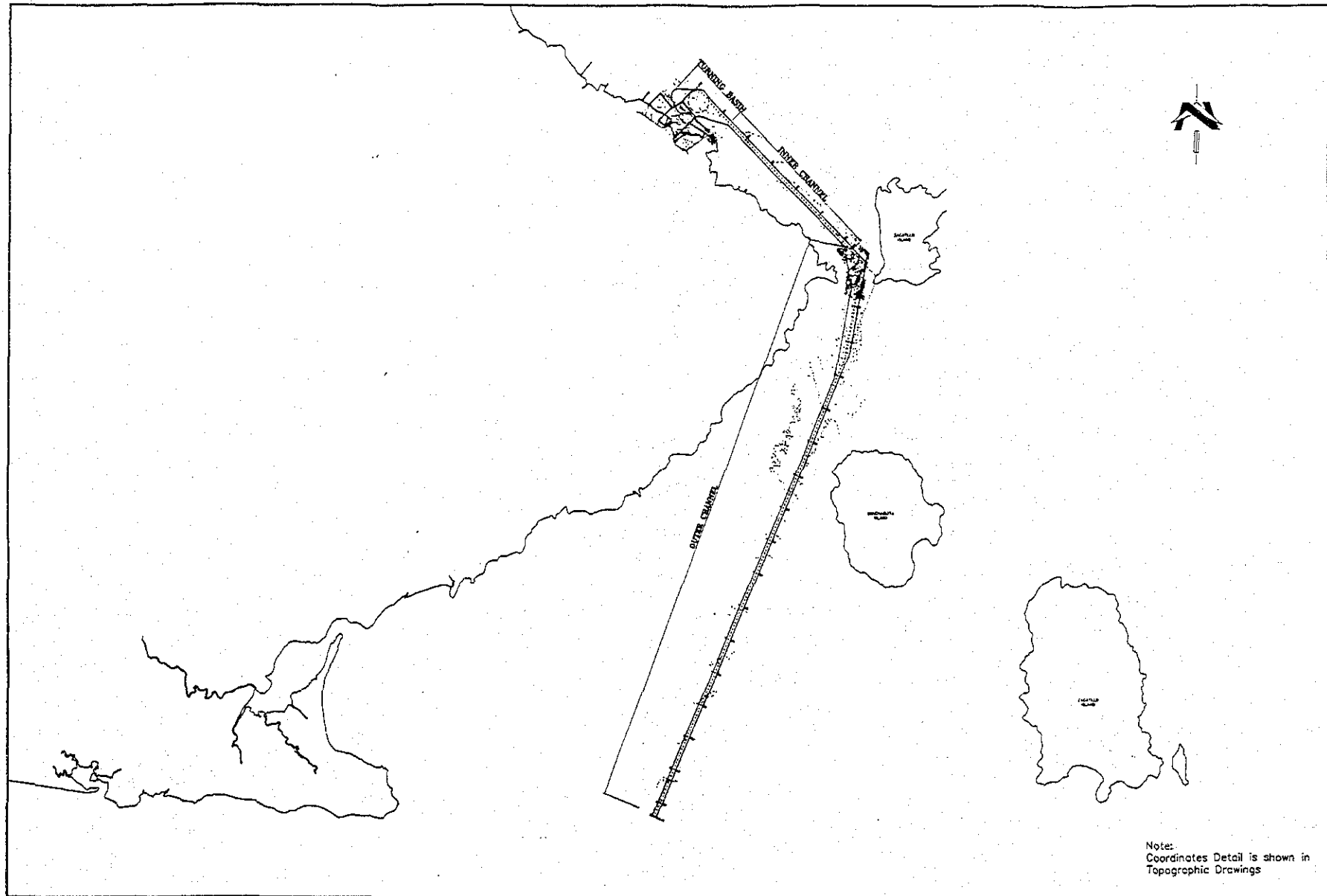
Summary of Quantity Calculation

BOQ Item	Work Section Title	Quantity Item	Quantity	Unit	Remarks
	Dredging Work				
2A-01	Outer Channel Dredging	offshore dumping	3,120,000	m3	
2A-02		onshore dumping	1,040,000	m3	
2A-03	Inner Channel Dredging	offshore dumping	3,352,000	m3	
2A-04		onshore dumping	1,117,000	m3	
2A-05	Turning Basin Dredging	offshore dumping	2,092,000	m3	
2A-06		onshore dumping	698,000	m3	
2A-07	Passenger Turning Basin	offshore dumping	70,000	m3	
2A-08	Container Berth	offshore dumping	243,000	m3	
2A-09	Multi-purpose Berth	offshore dumping	279,000	m3	
2A-10	West Revetment	offshore dumping	385,000	m3	
2A-11	East Revetment	offshore dumping	198,000	m3	
2A-12	Reclamation area	offshore dumping	481,000	m3	
2A-1301	Temporary Revetment A-North		420	m	
2A-130101		Sand	34,700	m3	
2A-130102		Rubble	4,710	m3	10~250kg/pc
2A-130103		Geotextile Sheet	5,800	m2	
2A-1302	Temporary Revetment A-West		440.0	m	
2A-130201		Sand	20,500	m3	
2A-130202		Rubble	4,050	m3	10~250kg/pc
2A-130203		Geotextile Sheet	4,670	m2	
2A-1303	Temporary Revetment B		530.0	m	
2A-130301		Sand	40,300	m3	
2A-130302		Rubble	5,940	m3	10~250kg/pc
2A-130303		Geotextile Sheet	7,190	m2	
2A-1304	West Bund		200.0	m	
2A-130401		Sand	7,760	m3	
2A-130402		Rubble	1,740	m3	10~250kg/pc
2A-130403		Geotextile Sheet	1,960	m2	
2A-1305	East Bund		50.0	m	
2A-130501		Sand	2,730	m3	
2A-130502		Rubble	490	m3	10~250kg/pc
2A-130503		Geotextile Sheet	570	m2	
	Container Berth Work		340.0	m	
2B-0101	Rubble Mound of Caisson	Rubble	54,600	m3	10~250kg/pc
2B-0102		Leveling	18,500	m2	
2B-0103		Compaction	7,850	m2	
2B-02	Asphalt Matt		7,480	m2	
2B-0301	Armor Stone	Rubble	3,820	m3	200~300kg/pc
2B-0302		Leveling	7,870	m2	
2B-0401	Scaffolding	Outer	22,000	m2	1290m2 / 1caisson
2B-0402		Inner	8,910	m2	524m2 / 1caisson
2B-0403	Reinforcement of Caisson		2890 Incl. Lifting Bar 8.9t	t	per 1 Caisson D25 18.1t D22 48.8t D19 24.7t D16 52.0t D13 25.6t
2B-0404	Concrete of Caisson		19,000	m3	
2B-0405	Form of Caisson		98,900	m2	

BOQ Item	Work Section Title	Quantity Item	Quantity	Unit	Remarks
2B-05	Temporary anchoring of Caisson		17	Nos	
2B-06	Placing of Caisson		17	Nos	
2B-07	Sand Filling into Caisson		84,500	m3	
2B-08	Cover Concrete of Caisson		2,780	m3	
2B-0901	Coping Concrete of Caisson	Concrete	5,460	m3	
2B-0902		Elas Tigh Board	259	m2	
2B-0903		Reinforcement	368	t	21.6t / 1block
2B-0904		Form	4,550	m2	
2B-0905		Corner Protection	340	m	
2B-0906		Concrete for Curb	16.7	m3	
2B-0907		Form for Curb	159	m2	
2B-0908		Reinforcement for Curb	4,790	kg	
2B-0909		Drain Pipe	2.03m x 34 0.55m x 9 1.82m x 1 Total 76.0m	m	
2B-10	Apron Concrete Pavement		7,200	m2	
2B-1001		Concrete	2,160	m3	t=30cm
2B-1002		Base Concrete	1,080	m3	t=15cm
2B-1003		Sub-Base Concrete	1,080	m3	t=15cm
2B-1004		Prime Coating	7,200	m2	
2B-1005		Reinforcement and joint bar	19,300	kg	
2B-1006		Elas Tigh Board	230	m2	
2B-1007		Joint filler	90.0	m2	
2B-1008		Iron mesh	7,200	m2	
2B-1101	Sand Protection Sheet	Sand Protection Sheet	553	m	
2B-1102		Steel Plate	2,180	kg	
2B-1201	Back Filling behind Caisson	Back filling stone	49,100	m3	
2B-1202		Leveling	11,600	m2	
2B-1203		Geotextile Sheet	13,700	m2	
2B-1301	Steel Pipe Pile for Crane Rail Foundation	Steel Pipe Pile	L1=23.0m t=11 ; 25 L2=19.5m t=11 ; 30 L3=24.0m t=11 ; 5 L4=19.5m t=14 ; 3 L5=24.0m t=14 ; 5 Total 323t	Nos	φ 800 W1=4930kg W2=4180kg W3=5140kg W4=5290kg W5=6510kg
2B-1302		Steel Plate	7,680	kg	112.8kg x 68sets
2B-1401	Concrete for Crane Rail Foundation	Concrete	1,160	m3	
2B-1402		Elas Tigh Board	56.1	m2	
2B-1403		Reinforcement	97.6	t	
2B-1404		Form	1,540	m2	
2B-1405		Crushed Stone	63.3	m3	t=10cm
2B-1406		Leveling of Crushed Stone	633	m2	
2B-1407		Lean Concrete	31.7	m3	t=5cm
2B-1408		Drain Pipe	0.85m x 47 1.76m x 4 0.31m x 8 Total 50.0m	m	
2B-1501	Crane Rail with Accessories	Crane Rail with Accessories	670	m	Rail Weight 73kg/m

BOQ Item	Work Section Title	Quantity Item	Quantity	Unit	Remarks
2B-1502		Asphalt Mixture	33.5	m3	
2B-1503		Corner Angle	6,110	kg	
2B-1504		Re-Bar	1,670	kg	
2B-1601	Cable Trench	Corner Angle	6,100	kg	
2B-1602		Re-Bar	1,670	kg	
2B-1701	Jack-up base	Steel Plate	16	Nos	400x600 t=40mm
2B-1702		Base Angle	32	Nos	1.90x90x10 L.=580
2B-1801	End Stopper	Steel Plate & Bolt	4	Sets	938kg / 1spot
2B-1802		Concrete	2.92	m3	0.73m3 / 1spot
2B-1901	Socket block	Steel Plate & Bolt	8	Sets	407kg / 1spot
2B-1902		Concrete	1.12	m3	0.14m3 / 1spot
2B-2001	Crane anchoring frame	Steel Plate & Bolt	16	Sets	683kg / 1spot
2B-2002		Concrete	8.70	m3	0.54m3 / 1spot
2B-2003		Angle & Re-Bar	263	kg	16.4kg / 1spot
2B-2004		Form for cover	16.50	m2	1.03m2 / N
2B-2005		Concrete for cover	0.64	m3	0.04m3 / N
2B-21	Fender	Type-A	25	Sets	
2B-22	Bollard	Bollard	13	Sets	
2B-23	Ladder		4	Sets	

QUANTITY CALCULATION COVER SHEET								
Project	Detailed Design on Port Reactivation Project in La Union Province			Project Code	JC1N004/2N001			
Work Section Title	Dredging Work			Pay Item No. (BOQ)	2A-01			
Quantity Item	Outer Channel Dredging			Unit	m ³			
Calculation Procedure Applied								
<p style="text-align: center;">offshore dumping</p> <p>Offshore dumping volume was computed based on the assumption that offshore dumping volume was ^{75.0}74.5 % of dredging volume. This ratio (^{75.0}74.5 %) was computed by offshore dumping volume divided by dredging volume (Total of outer, inner, turning basin)</p>								
References, Calculation Base and Revisions								
<p>Outer Channel Dredging (calculation of ERS)</p> <p>ERS - ERS - 00 - 001</p>								
Rev	Prepared		No. of Pages	Checked		Reviewed		Superseded by Calc No.
	by	Date		by	Date	by	Date	
0	<i>[Signature]</i>	02/May/2002						
1								
2								
3								



Note:
Coordinates Detail is shown in
Topographic Drawings

JICA Gpa	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)	NIPPON KOEI CO., LTD.	DESIGNED BY :	SECTION :	DREDGING AND RECLAMATION WORK GENERAL GENERAL PLAN OF DREDGING AND RECLAMATION	DATE :
			CHECKED BY :	SUB-SECTION :		JULY/2002
			APPROVED BY :	TITLE :		SCALE :
						1 : 100,000
						DRAWING NO.
						DW-DR-00-001

Project	Detailed Design on Port Reactivation Project in La Union	Calc. File No.	
Section	Outer Channel Dredging	Calc. Index No.	
Subject	Offshore dumping	Page No.	Rev.
$3,961,000 \times 0.5435 = 2,151,500 \text{ m}^3$ 0.25 $3,120,000 \text{ m}^3$			References/ Notes
Prepared by		Checked by	
/ /200		/ /200	

QUANTITY CALCULATION COVER SHEET

Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	Dredging Work	Pay Item No. (BOQ)	2A-02
Quantity Item	Outer Channel Dredging	Unit	m ³

Calculation Procedure Applied

(onshore dumping)

Onshore dumping volume was computed based on the assumption that dumping volume was ~~25.65%~~ 25.0% of dredging volume.

This ratio (25.0%) was computed from that onshore dumping volume, ~~2855000~~ 2855000 m³ was divided by dredging volume ~~11419000~~ 11,419,000 m³.
(Outer ~~2960000~~ 4,160,000 m³, Inner 4,469,000 m³ Turning Basin 2,790,000 m³)

So, onshore dumping volume was computed by multiplying Outer Channel Dredging by ~~25.65%~~ 25.0%.

References, Calculation Base and Revisions

See outer channel dredging (offshore dumping) and calculation by Excel.

Rev	Prepared		No. of Pages	Checked		Reviewed		Superseded by Calc No.
	by	Date		by	Date	by	Date	
0	SAM <i>[Signature]</i>	2/May/02						
1								
2								
3								

Project	Detailed Design on Port Reactivation Project in La Union	Calc. File No.	
Section	Outer Channel Dredging	Calc. Index No.	
Subject	Onshore dumping	Page No.	Rev.
			References/ Notes
$3,961,000 \times \frac{0.25}{0.25} = 1,016,000 \text{ m}^3$ $1,040,000 \text{ m}^3$			
Prepared by		Checked by	
		/ /200	

QUANTITY CALCULATION COVER SHEET

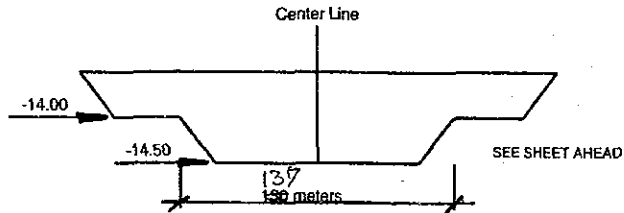
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	
Work Section Title	Dredging Work	Pay Item No. (BOQ)	
Quantity Item	Outer Channel Dredging (from Sec.50-217)	Unit	cubic meter

Calculation Procedure Applied

1. Calculation of Areas of Sections (Excel)
2. Average of Areas of Sections (Excel)
3. Calculation of Volume: Average of area of sections times distance between sections: (Excel)

References, Calculation Base and Revisions

1. Typical Section of Outer Channel:



2. Area and Volumes have been calculated starting from Section 92 up to section 215, in accordance with the General Plan of Outer Channel Dredging N° DW-DR-00-003 From section 50 to 92 no dredging due to deeper than dredging elevation planned.

3. Design Information:

Slope: 1:5 (vertical: horizontal)

Depth: -14.5 meters

Width: ~~130~~ meters
137

Rev	Prepared		No. of Pages	Checked		Reviewed		Superseded by Calc No.
	by	Date		by	Date	by	Date	
0	jam	02/may/2002	55					
1								
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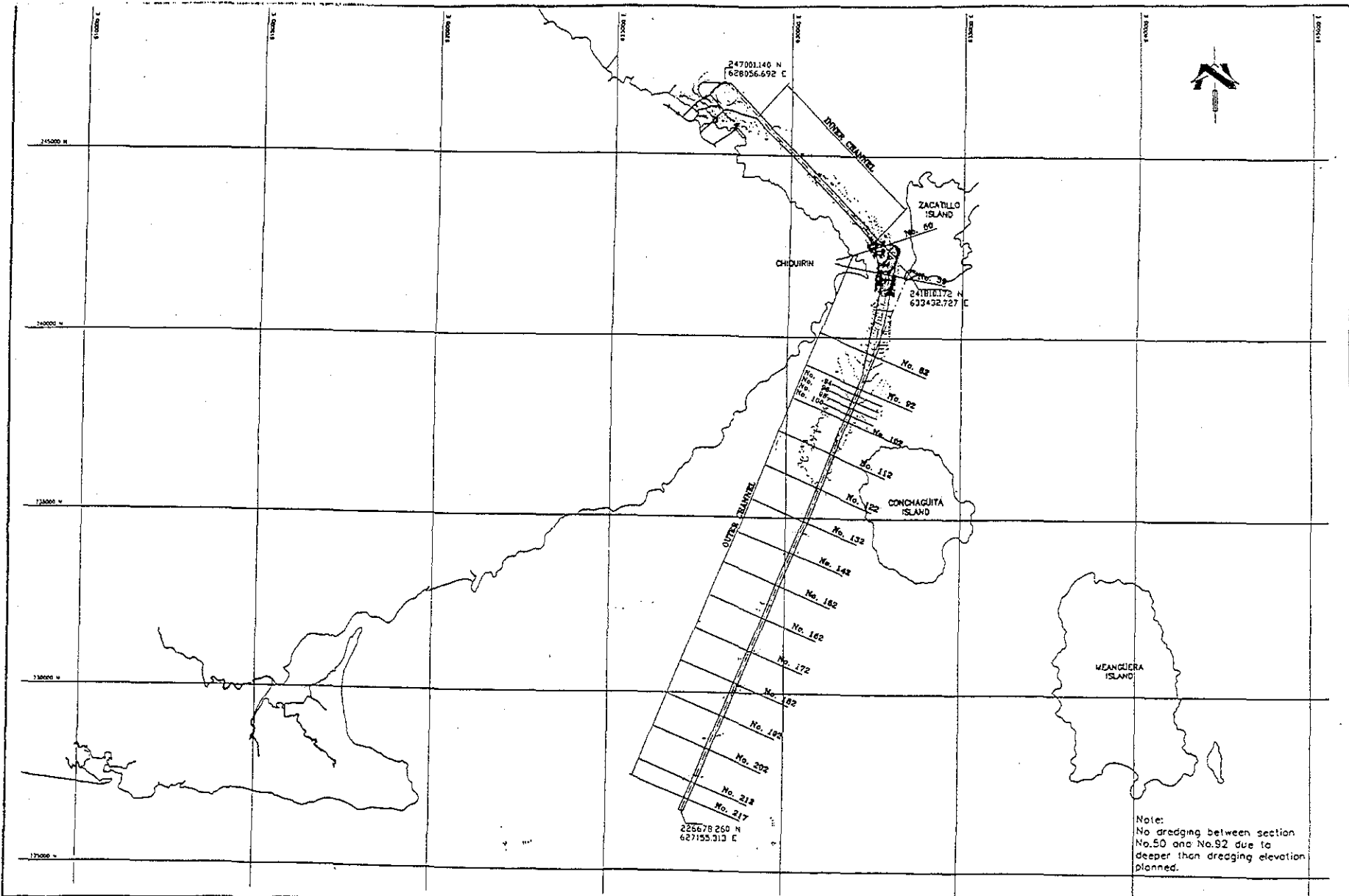
File in Calc. File

SECTION	AREA m ²	AVERAGE m ²	DISTANCE m	VOLUME m ³
	0.0			
		7.5	100.0	748.8
93	15.0			
		15.4	100.0	1,538.4
94	15.8			
		12.9	100.0	1,285.9
95	9.9			
		21.3	100.0	2,132.0
96	32.7			
		45.3	100.0	4,533.2
97	57.9			
		60.2	100.0	6,017.5
98	62.4			
		79.9	100.0	7,992.2
99	97.4			
		84.3	100.0	8,425.9
100	71.1			
		80.9	100.0	8,086.0
101	90.6			
		86.9	100.0	8,693.1
102	83.2			
		93.4	100.0	9,344.0
103	103.7			
		98.4	100.0	9,840.8
104	93.2			
		91.9	100.0	9,188.0
105	90.6			
		86.5	100.0	8,653.5
106	82.5			
		79.9	100.0	7,990.7
107	77.4			
		79.3	100.0	7,928.2
108	81.2			
		81.0	100.0	8,103.7
109	80.9			
		75.3	100.0	7,526.4
110	69.7			
		59.8	100.0	5,979.7
111	49.9			
		45.1	100.0	4,510.4
112	40.3			
		53.5	100.0	5,346.4
113	66.6			
		77.3	100.0	7,733.6
114	88.0			
		86.5	100.0	8,654.1
115	85.1			
		81.1	100.0	8,113.6
116	77.2			
		79.6	100.0	7,955.8
117	81.9			
		85.0	100.0	8,501.8
118	88.1			
		104.8	100.0	10,484.4
119	121.6			
		120.9	100.0	12,088.8
120	120.2			
		127.6	100.0	12,755.1
121	134.9			
		170.7	100.0	17,073.1
122	206.6			
		211.0	100.0	21,097.9
123	215.4			
		215.7	100.0	21,570.7



SECTION	AREA m ²	AVERAGE m ²	DISTANCE m	VOLUME m ³
124	216.0			
		240.5	100.0	24,048.0
125	264.9			
		259.5	100.0	25,954.5
126	254.2			
		270.2	100.0	27,018.5
127	286.2			
		290.4	100.0	29,038.1
128	294.6			
		308.8	100.0	30,883.3
129	323.1			
		335.9	100.0	33,593.8
130	348.8			
		359.5	100.0	35,947.5
131	370.2			
		383.3	100.0	38,325.3
132	396.3			
		419.2	100.0	41,923.0
133	442.1			
		453.9	100.0	45,387.7
134	465.6			
		479.2	100.0	47,917.5
135	492.7			
		511.4	100.0	51,136.2
136	530.0			
		545.6	100.0	54,560.4
137	561.2			
		572.1	100.0	57,210.4
138	583.0			
		597.4	100.0	59,742.5
139	611.9			
		627.2	100.0	62,721.3
140	642.6			
		652.6	100.0	65,262.5
141	662.7			
		674.2	100.0	67,423.6
142	685.8			
		693.0	100.0	69,303.0
143	700.3			
		696.8	100.0	69,683.8
144	693.4			
		712.4	100.0	71,236.2
145	731.3			
		741.8	100.0	74,177.1
146	752.2			
		749.5	100.0	74,954.0
147	746.9			
		749.4	100.0	74,938.9
148	751.9			
		750.6	100.0	75,063.9
149	749.4			
		759.7	100.0	75,970.8
150	770.1			
		744.4	100.0	74,437.1
151	718.7			
		715.9	100.0	71,587.0
152	713.1			
		724.1	100.0	72,414.5
153	735.2			
		730.2	100.0	73,022.4
154	725.2			
		725.6	100.0	72,564.9
155	726.1			
		723.6	100.0	72,362.6


SECTION	AREA	AVERAGE	DISTANCE	VOLUME
	m2	m2	m	m3
156	721.2			
		707.2	100.0	70,723.8
157	693.3			
		685.6	100.0	68,555.0
158	677.8			
		660.4	100.0	66,036.0
159	642.9			
		648.5	100.0	64,851.0
160	650.1			
		649.0	100.0	64,899.0
161	647.9			
		645.1	100.0	64,506.2
162	642.2			
		632.5	100.0	63,246.0
163	622.7			
		643.2	100.0	64,321.6
164	663.8			
		628.5	100.0	62,846.6
165	593.2			
		604.3	100.0	60,425.1
166	615.3			
		599.2	100.0	59,922.7
167	583.1			
		584.6	100.0	58,456.0
168	586.0			
		589.5	100.0	58,946.6
169	592.9			
		582.3	100.0	58,225.7
170	571.6			
		551.9	100.0	55,193.3
171	532.3			
		522.6	100.0	52,259.3
172	512.9			
		529.8	100.0	52,980.7
173	546.7			
		520.2	100.0	52,023.4
174	493.7			
		490.4	100.0	49,041.2
175	487.1			
		476.0	100.0	47,602.5
176	465.0			
		464.2	100.0	46,420.5
177	463.4			
		444.0	100.0	44,396.4
178	424.5			
		419.3	100.0	41,933.4
179	414.2			
		405.8	100.0	40,580.2
180	397.4			
		391.8	100.0	39,180.4
181	386.2			
		373.7	100.0	37,367.7
182	361.2			
		367.4	100.0	36,743.8
183	373.7			
		361.2	100.0	36,115.0
184	348.6			
		346.2	100.0	34,620.0
185	343.8			
		321.7	100.0	32,173.8
186	299.7			
		307.4	100.0	30,738.8
187	315.1			
		313.8	100.0	31,382.5

SECTION	AREA	AVERAGE	DISTANCE	VOLUME
	m2	m2	m	m3
188	312.6			
		304.1	100.0	30,406.9
189	295.6			
		284.2	100.0	28,422.9
190	272.9			
		274.3	100.0	27,431.0
191	275.8			
		267.1	100.0	26,712.5
192	258.5			
		250.4	100.0	25,036.3
193	242.2			
		243.6	100.0	24,364.9
194	245.1			
		237.6	100.0	23,757.4
195	230.1			
		228.2	100.0	22,821.3
196	226.4			
		219.5	100.0	21,951.3
197	212.7			
		209.0	100.0	20,896.3
198	205.3			
		190.8	100.0	19,082.0
199	176.4			
		173.2	100.0	17,324.4
200	170.1			
		165.8	100.0	16,583.8
201	161.6			
		162.8	100.0	16,282.5
202	164.1			
		154.4	100.0	15,438.8
203	144.7			
		138.8	100.0	13,877.6
204	132.9			
		130.1	100.0	13,007.0
205	127.3			
		118.8	100.0	11,882.0
206	110.4			
		98.9	100.0	9,887.5
207	87.4			
		84.5	100.0	8,450.2
208	81.6			
		71.6	100.0	7,164.0
209	61.7			
		63.5	100.0	6,352.5
210	65.4			
		53.6	100.0	5,361.6
211	41.9			
		34.7	100.0	3,473.0
212	27.6			
		24.2	100.0	2,421.4
213	20.8			
		23.7	100.0	2,371.7
214	26.6			
		17.0	100.0	1,701.9
215	7.4			
		3.7	100.0	371.5
	0.0			
Total				4,159,049.4



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 COOPERATION AGENCY
 (JICA)

Cepa
 COMISION EJECUTIVA
 PORTUARIA AUTONOMA
 (CEPA)

DETAILED DESIGN ON PORT REACTIVATION
 PROJECT IN LA UNION PROVINCE
 OF THE REPUBLIC OF EL SALVADOR

NKK
 NIPPON KOEI CO., LTD.

DESIGNED BY:
 CHECKED BY:
 APPROVED BY:

SECTION : DREDGING AND RECLAMATION WORK
 SUB-SECTION : GENERAL
 FILE :
DREDGING PLAN OF OUTER CHANNEL

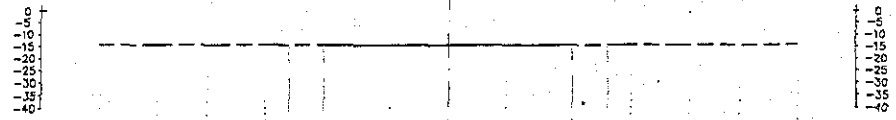
DATE : JULY/2002
 SCALE : 1 : 100,000
 DRAWING NO : DW-CR-50-103

Note:
 No dredging between section
 No.50 and No.92 due to
 deeper than dredging elevation
 planned.

LAND SIDE

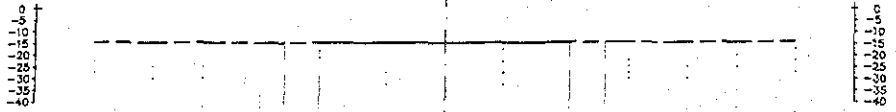
SEA SIDE

Sect 93



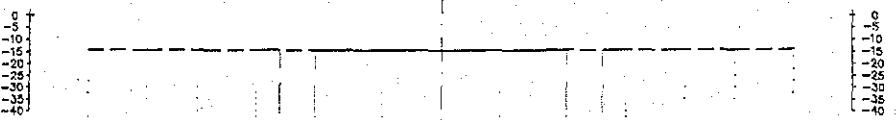
Existing Elevation (m)	-14.2	-14.2	-14.3	-14.3	-14.2	-14.3	-14.3	-14.3	-14.3	-14.2	-14.3	-14.3			
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00			
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	68.5	53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

Sect 94



Existing Elevation (m)	-14.1	-14.3	-14.2	-14.2	-14.3	-14.3	-14.3	-14.2	-14.2	-14.3	-14.2	-14.2			
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00				
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	68.5	53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

Sect 95



Existing Elevation (m)	-14.1	-14.2	-14.3	-14.3	-14.3	-14.3	-14.3	-14.4	-14.4	-14.2	-14.2	-14.0			
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00				
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	68.5	53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

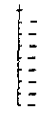
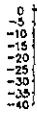
Legend:
 - - - - - Existing Elevation
 _____ Dredging Elevation

	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)	THE DETAILED DESIGN ON PORT REACTIVATION PROJECT IN LA UNION PROVINCE OF THE REPUBLIC OF EL SALVADOR NIPPON KOEI CO., LTD.	DEMAND BY: ORDER BY: APPROVED BY:	SECTION: DREDGING AND RECLAMATION WORK SUB-SECTION: OUTER CHANNEL TITLE: CROSS SECTIONS OF OUTER CHANNEL 93,94,95	DATE: OCTOBER/2002 SCALE: H:1:2000 V:1:2000 DRAWING NO: DR-C2-001
	PROJECT NO.: DATE: COORDINATE: BY: APPROVED DATE:				

LAND SIDE

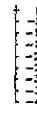
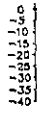
SEA SIDE

Sect 96



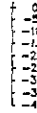
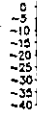
Existing Elevation (m)	-13.0	-14.0	-14.0	-14.0	-14.1	-14.0	-14.1	-14.1	-14.2	-14.2	-14.3	-13.9	-14.0
Dredging Elevation (m)		-2.00	-7.00	-14.00-14.50	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00		-7.00	-2.00
Distance (m)	25	21.5	25	10 15 28.5	25	0.00	25	28.5	15 10	25	21.5	25	
Cum. Distance (m)	-150	-125	103.5	78.5-68.5-53.5	-25	0.00	25	53.5	68.5 78.5	103.5	125	150	

Sect 97



Existing Elevation (m)	-13.9	-13.9	-14.0	-13.9	-14.0	-13.9	-14.0	-14.0	-14.0	-14.0	-13.9	-13.9	-14.0
Dredging Elevation (m)		-2.00	-7.00	-14.00-14.50	-14.50	-14.50	-14.50	-14.50	-14.00		-7.00	-2.00	
Distance (m)	25	21.5	25	10 15 28.5	25	0.00	25	28.5	15 10	25	21.5	25	
Cum. Distance (m)	-150	-125	103.5	78.5-68.5-53.5	-25	0.00	25	53.5	68.5 78.5	103.5	125	150	

Sect 98



Existing Elevation (m)	-13.7	-13.9	-13.6	-13.7	-13.7	-13.6	-14.0	-14.0	-13.9	-13.9	-14.0	-13.6	-13.9
Dredging Elevation (m)		-2.00	-7.00	-14.00-14.50	-14.50	-14.50	-14.50	-14.50	-14.00		-7.00	-2.00	
Distance (m)	25	21.5	25	10 15 28.5	25	0.00	25	28.5	15 10	25	21.5	25	
Cum. Distance (m)	-150	-125	103.5	78.5-68.5-53.5	-25	0.00	25	53.5	68.5 78.5	103.5	125	150	

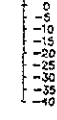
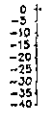
Legend:
 - - - - - Existing Elevation
 ——— Dredging Elevation

REV. NO.	DATE	COORDINATE	BY	APPROVED DATE	<p>JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)</p>	<p>NIPPON KOBI CO., LTD.</p>	DESIGNED BY:	SECTION:	DATE:
							CHECKED BY:	SUB-SECTION:	OCTOBER/2002
							APPROVED BY:	TITLE:	SCALE: H: 1:2000 V: 1:2000
							DREDGING AND RECLAMATION WORK OUTER CHANNEL CROSS SECTIONS OF OUTER CHANNEL 96,97,98		DRAWING NO: DR-C2-002

LAND SIDE

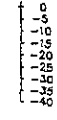
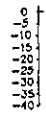
SEA SIDE

Sect 99



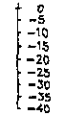
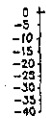
Existing Elevation (m)	-13.8	-13.6	-13.9	-13.9	-13.6	-13.9	-13.7	-13.3	-13.7	-14.8	-14.1	-13.9	-13.9
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00	
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25
Cum. Distance (m)	-150	-125	103.5	78.5	68.5	53.5	25	0.00	25	53.5	68.5	78.5	103.5

Sect 100



Existing Elevation (m)	-13.7	-13.7	-13.9	-13.9	-14.0	-13.9	-13.8	-13.8	-13.9	-13.9	-13.8	-14.0	-14.0
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00	
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25
Cum. Distance (m)	-150	-125	103.5	78.5	68.5	53.5	25	0.00	25	53.5	68.5	78.5	103.5

Sect 101



Existing Elevation (m)	-13.5	-13.7	-13.6	-13.6	-13.6	-13.6	-13.8	-13.7	-13.7	-13.9	-14.0	-13.9	-14.1
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00	
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25
Cum. Distance (m)	-150	-125	103.5	78.5	68.5	53.5	25	0.00	25	53.5	68.5	78.5	103.5

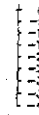
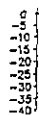
Legend:
 - - - - - Existing Elevation
 _____ Dredging Elevation

REV. NO.	DATE	COORDINATE	BY	APPROVED	DATE	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)	NIPPON KOEI CO., LTD.	DESIGNED BY:	SECTION: DREDGING AND RECLAMATION WORK	DATE: OCTOBER/2002
									CHECKED BY:	SUB-SECTION: OUTER CHANNEL	SCALE: H: 1:2500
									APPROVED BY:	TITLE: CROSS SECTIONS OF OUTER CHANNEL 99,100,101	V: 1:2000
										DRAWING NO: DR-02-003	

LAND SIDE

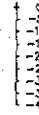
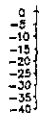
SEA SIDE

Sect 102



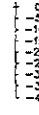
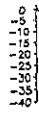
Existing Elevation (m)	-13.5	-13.5	-13.6	-13.6	-13.7	-13.7	-13.8	-13.9	-13.9	-13.9	-13.8	-13.9			
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00			
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

Sect 103



Existing Elevation (m)	-13.5	-13.5	-13.5	-13.7	-13.6	-13.8	-13.6	-13.7	-13.8	-13.7	-13.7	-13.9	-14.0		
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00			
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

Sect 104



Existing Elevation (m)	-13.5	-13.7	-13.6	-13.6	-13.7	-13.6	-13.8	-13.6	-13.7	-13.7	-13.7	-13.9	-14.0		
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00				
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

Legend:
 - - - - - Existing Elevation
 ——— Dredging Elevation

REV. NO.	DATE	COORDINATE	BY	APPROVED	DATE	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)	THE DETAILED DESIGN ON PORT REACTIVATION PROJECT IN LA UNION PROVINCE OF THE REPUBLIC OF EL SALVADOR NIPPON KOEI CO., LTD.	DESIGNED BY :	SECTION :	DATE :
									CHECKED BY :	SUB-SECTION :	OCTOBER/2002
									TITLE :	SCALE :	
									APPROVED BY :	102,103,104	1:1,2000
										1:1,2000	DRAWING NO. : DR-02-004

LAND SIDE

Sect 105

SEA SIDE

0
-5
-10
-15
-20
-25
-30
-35
-40

0
-5
-10
-15
-20
-25
-30
-35
-40

Existing Elevation (m)	-13.9	-13.7	-13.6	-13.9	-13.9	-13.6	-13.5	-13.9	-13.8	-14.0	-13.9	-13.9	-14.0
Dredging Elevation (m)	-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00	
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5

Sect 106

0
-5
-10
-15
-20
-25
-30
-35
-40

0
-5
-10
-15
-20
-25
-30
-35
-40

Existing Elevation (m)	-13.7	-13.7	-13.8	-13.7	-13.7	-13.9	-13.8	-13.8	-13.8	-13.9	-13.8	-14.0	-13.9
Dredging Elevation (m)	-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00	
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5

Sect 107




0
-5
-10
-15
-20
-25
-30
-35
-40

0
-5
-10
-15
-20
-25
-30
-35
-40

Existing Elevation (m)	-13.7	-13.6	-13.7	-13.8	-13.6	-13.6	-14.0	-14.0	-13.8	-14.0	-13.8	-14.0	-14.0
Dredging Elevation (m)	-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00	
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5

Legend:

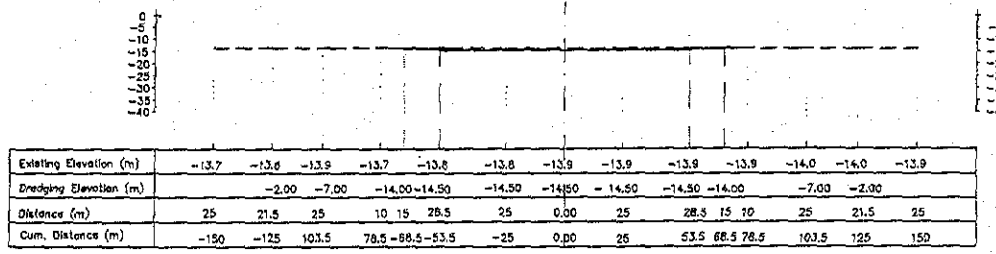
----- Existing Elevation
 - - - - - Dredging Elevation

REV. NO.	DATE	COORDINATE	BY	APPROVED	SIGN.	 JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	 COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)	 NIPPON KOEI CO., LTD.	DESIGNED BY: CHECKED BY: APPROVED BY:	SECTION : DREDGING AND RECLAMATION WORK SUB-SECTION : OUTER CHANNEL TITLE : CROSS SECTIONS OF OUTER CHANNEL 105,106,107	DATE : OCTOBER/2002 SCALE : H: 1:2000 V: 1:2000 DRAWING NO: DR-02-005
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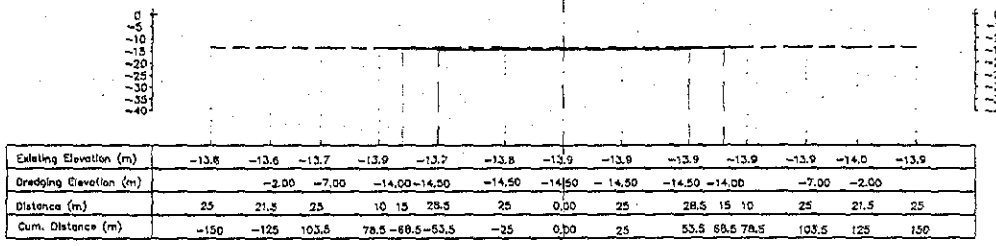
LAND SIDE

Sect 108

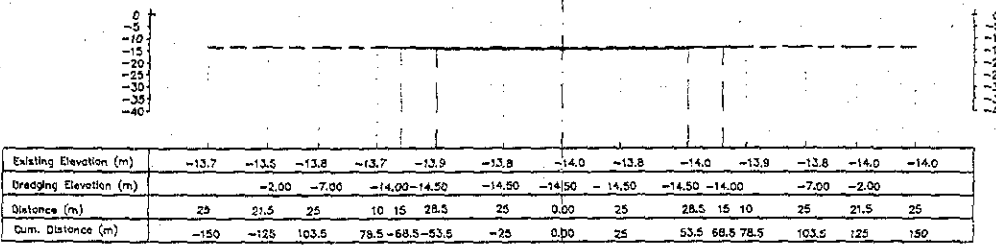
SEA SIDE



Sect 109



Sect 110



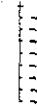
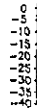
Legend:
 - - - - - Existing Elevation
 _____ Dredging Elevation

NO. / DATE	BY	APPROVED DATE	<p>JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) CEPA COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)</p>	<p>THE DETAILED DESIGN ON PORT REACTIVATION PROJECT IN LA UNION PROVINCE OF THE REPUBLIC OF EL SALVADOR</p> <p>NIPPON KOEI CO., LTD.</p>	DESIGNED BY :	SECTION :	DATE :
					CHECKED BY :	SUB-SECTION :	OCTOBER/2002
					APPROVED BY :	TITLE :	SCALE :
						DREDGING AND RECLAMATION WORK OUTER CHANNEL CROSS SECTIONS OF OUTER CHANNEL 108,109,110	H:1:2000 V:1:2000
							DRAWING NO. DR-02-005

LAND SIDE

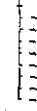
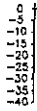
SEA SIDE

Sect 111



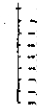
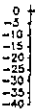
Existing Elevation (m)	-13.5	-13.8	-13.6	-13.8	-13.9	-14.1	-13.9	-14.1	-13.9	-14.1	-14.2	-14.0	-14.2
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00		-7.00	-2.00
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25
Cum. Distance (m)	-150	-125	103.5	78.5	68.5	53.5	-25	0.00	25	53.5	68.5	78.5	103.5

Sect 112



Existing Elevation (m)	-13.6	-13.7	-13.8	-13.8	-13.8	-13.8	-14.1	-14.8	-14.5	-14.8	-14.1	-14.1	-14.1
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00		-7.00	-2.00
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25
Cum. Distance (m)	-150	-125	103.5	78.5	68.5	53.5	-25	0.00	25	53.5	68.5	78.5	103.5

Sect 113



Existing Elevation (m)	-13.5	-13.5	-13.6	-13.8	-13.8	-13.7	-13.9	-13.9	-13.9	-14.0	-13.9	-14.0	-13.9
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00		-7.00	-2.00
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25
Cum. Distance (m)	-150	-125	103.5	78.5	68.5	53.5	-25	0.00	25	53.5	68.5	78.5	103.5

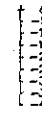
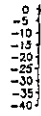
Legend:
 - - - - - Existing Elevation
 ————— Dredging Elevation

REV. NO.	DATE	DESCRIPTION	BY	APPROVED	DATE	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)	THE DETAILED DESIGN ON PORT REACTIVATION PROJECT IN LA UNION PROVINCE OF THE REPUBLIC OF EL SALVADOR NIPPON KOEI CO., LTD.	DESIGNED BY : CHECKED BY : APPROVED BY :	SECTION : DREDGING AND RECLAMATION WORK SUB-SECTION : OUTER CHANNEL TITLE : CROSS SECTIONS OF OUTER CHANNEL 111,112,113	DATE : OCTOBER/2002 SCALE : H:1:2000 V:1:2000 DRAWING NO. : DR-02-027

LAND SIDE

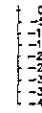
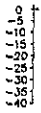
SEA SIDE

Sect 114



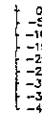
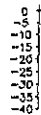
Existing Elevation (m)	-13.7	-13.5	-13.7	-13.7	-13.7	-13.7	-13.8	-13.8	-13.8	-13.8	-14.0	-14.1	-14.2
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00	
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25
Cum. Distance (m)	-150	-125	103.5	78.5	68.5	53.5	-25	0.00	25	53.5	68.5	78.5	103.5

Sect 115



Existing Elevation (m)	-13.5	-13.5	-13.8	-13.7	-13.6	-13.9	-13.9	-13.7	-13.8	-13.9	-13.9	-14.0	-14.1
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00	
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25
Cum. Distance (m)	-150	-125	103.5	78.5	68.5	53.5	-25	0.00	25	53.5	68.5	78.5	103.5

Sect 116



Existing Elevation (m)	-13.5	-13.5	-13.7	-13.8	-13.7	-13.8	-13.9	-13.9	-13.9	-13.8	-13.9	-13.8	-14.1
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00	
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25
Cum. Distance (m)	-150	-125	103.5	78.5	68.5	53.5	-25	0.00	25	53.5	68.5	78.5	103.5

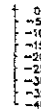
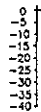
Legend:
 - - - - - Existing Elevation
 _____ Dredging Elevation

REV. NO.	DATE	CORRECTION	BY	APPROVED	DATE	<p>JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)</p>	<p>NIPPON KOEI CO., LTD.</p>	DESIGNED BY:	SECTION:	DATE:
								CHECKED BY:	SUB-SECTION:	OCTOBER, 2002
								APPROVED BY:	TITLE:	DRAWING NO.:
									DREDGING AND RECLAMATION WORK OUTER CHANNEL CROSS SECTIONS OF OUTER CHANNEL 114,115,116	SCALE: H:1:2000 V:1:2000 DR-02-008

LAND SIDE

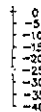
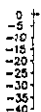
SEA SIDE

Sect 117



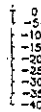
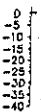
Existing Elevation (m)	-13.7	-13.9	-13.9	-13.8	-13.8	-13.8	-13.9	-13.9	-13.9	-13.9	-14.0	-14.1	-14.1		
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00			
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	68.5	53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

Sect 118



Existing Elevation (m)	-13.4	-13.5	-13.6	-13.6	-13.7	-13.7	-13.8	-13.8	-13.8	-13.9	-14.0	-14.0	-14.1		
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00			
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	68.5	53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

Sect 119



Existing Elevation (m)	-13.8	-13.8	-13.8	-13.3	-13.3	-13.3	-13.3	-13.6	-13.6	-13.6	-13.8	-13.7			
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00			
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	68.5	53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

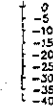
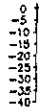
Legend:
 - - - - - Existing Elevation
 _____ Dredging Elevation

REV. NO.	DATE	CORRECTIVE	BY	APPROVED DATE	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)	THE DETAILED DESIGN ON PORT REACTIVATION PROJECT IN LA UNION PROVINCE OF THE REPUBLIC OF EL SALVADOR NIPPON KOEI CO., LTD.	DESIGNED BY:	SECTION :	DATE :
							CHECKED BY:	DESIGN-SECTION :	OCTOBER/2002
							APPROVED BY:	TITLE :	SCALE :
								DREDGING AND RECLAMATION WORK	H:1:2000
								OUTER CHANNEL	V:1:2000
								CROSS SECTIONS OF	DRAWING NO.:
								OUTER CHANNEL	DR-02-008
								117,118,119	

LAND SIDE

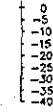
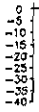
SEA SIDE

Sect 120



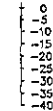
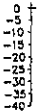
Existing Elevation (m)	-13.2	-13.1	-13.4	-13.3	-13.4	-13.4	-13.6	-13.3	-13.6	-13.5	-13.4	-13.4
Dredging Elevation (m)	-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00	
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5

Sect 121



Existing Elevation (m)	-13.0	-13.0	-13.0	-13.8	-13.8	-13.8	-13.2	-13.2	-13.2	-13.2	-13.2	-13.2
Dredging Elevation (m)	-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00	
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5

Sect 122



Existing Elevation (m)	-13.0	-12.9	-13.0	-13.0	-13.1	-13.0	-12.8	-12.8	-12.9	-13.0	-12.9	-12.9
Dredging Elevation (m)	-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00	
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5

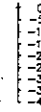
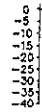
Legend:
 - - - - - Existing Elevation
 - - - - - Dredging Elevation

REV. NO.	DATE	COORDINATE	BY	APPROVED	DATE	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)	THE DETAILED DESIGN OR PORT REACTIVATION PROJECT IN LA UNION PROVINCE OF THE REPUBLIC OF EL SALVADOR NIPPON KOEI CO., LTD.	DESIGNED BY: CHECKED BY: APPROVED BY:	SECTION : DREDGING AND RECLAMATION WORK SUB-SECTION : OUTER CHANNEL TITLE : CROSS SECTIONS OF OUTER CHANNEL 120,121,122	DATE : OCTOBER/2002 SCALE : H:1:2000 V:1:2000 DRAWING NO: DR-02-010
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LAND SIDE

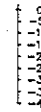
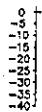
SEA SIDE

Sect 123



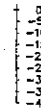
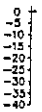
Existing Elevation (m)	-12.7	-12.8	-13.0	-13.0	-12.9	-12.9	-12.8	-12.9	-12.9	-12.9	-12.9	-12.9
Dredging Elevation (m)	-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00	
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10
Cum. Distance (m)	-150	-125	103.5	78.5	68.5	53.5	25	0.00	25	53.5	68.5	78.5

Sect 124



Existing Elevation (m)	-12.7	-12.6	-12.5	-12.5	-12.7	-12.7	-13.1	-12.9	-13.0	-13.1	-13.0	-12.9	-12.7
Dredging Elevation (m)	-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00	
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25
Cum. Distance (m)	-150	-125	103.5	78.5	68.5	53.5	25	0.00	25	53.5	68.5	78.5	103.5

Sect 125



Existing Elevation (m)	-12.7	-12.7	-12.7	-12.7	-12.9	-12.8	-12.9	-12.8	-12.9	-12.8	-12.8	-12.7	-12.7
Dredging Elevation (m)	-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00	
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25
Cum. Distance (m)	-150	-125	103.5	78.5	68.5	53.5	25	0.00	25	53.5	68.5	78.5	103.5

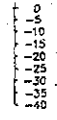
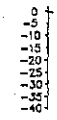
Legend:
 - - - - - Existing Elevation
 ————— Dredging Elevation

REV. NO.	DATE	COORDINATE	BY	APPROVED	DATE	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)	THE DETAILED DESIGN ON PORT REACTIVATION PROJECT IN LA UNION PROVINCE OF THE REPUBLIC OF EL SALVADOR NIPPON KOEI CO., LTD.	DESIGNED BY : CHECKED BY : APPROVED BY :	SECTION : DREDGING AND RECLAMATION WORK SUB-SECTION : OUTER CHANNEL TITLE : CROSS SECTIONS OF OUTER CHANNEL 123,124,125	DATE : OCTOBER/2002 SCALE : H.:1:2000 V.:1:2000 DRAWING NO. : DR-02-011

LAND SIDE

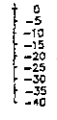
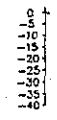
SEA SIDE

Sect 126



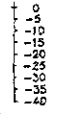
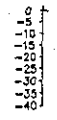
Existing Elevation (m)	-12.4	-12.4	-12.5	-12.4	-12.5	-12.7	-12.7	-12.7	-12.5	-12.5	-12.6	-12.8	-12.9
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00	
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5

Sect 127



Existing Elevation (m)	-12.5	-12.4	-12.6	-12.6	-12.5	-12.5	-12.3	-12.3	-12.4	-12.4	-12.5	-12.4	-12.4
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00	
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5

Sect 128



Existing Elevation (m)	-12.2	-12.1	-12.0	-12.1	-12.4	-12.4	-12.5	-12.3	-12.3	-12.3	-12.3	-12.3	-12.5
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00	
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5

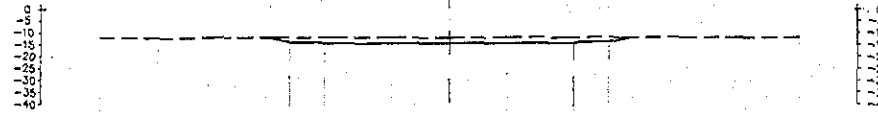
Legend:
 - - - Existing Elevation
 - - - Dredging Elevation

REV. NO.	DATE	COMPARISON	BY	APPROVED	DATE	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	CEPA COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)	NKK NIPPON KOEI CO., LTD.	DESIGNED BY:	SECTION : DREDGING AND RECLAMATION WORK SUB-SECTION : OUTER CHANNEL TITLE : CROSS SECTIONS OF OUTER CHANNEL 126,127,128	DATE : OCTOBER/2002
									CHECKED BY:		SCALE : H:1:2000 V:1:2000
						THE DETAILED DESIGN ON PORT REACTIVATION PROJECT IN LA UNION PROVINCE OF THE REPUBLIC OF EL SALVADOR					
						APPROVED BY:					

LAND SIDE

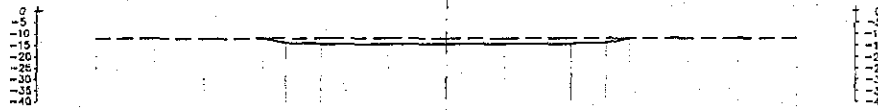
SEA SIDE

Sect 129



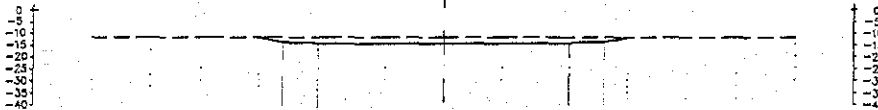
Existing Elevation (m)	-12.1	-12.0	-11.9	-12.1	-12.0	-12.1	-12.3	-12.1	-12.2	-12.1	-12.0	-12.2	-12.2
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00	
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5

Sect 130



Existing Elevation (m)	-12.0	-11.9	-12.3	-11.9	-11.9	-12.0	-12.1	-12.1	-12.0	-11.8	-11.9	-11.8	-11.8
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00	
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5

Sect 131



Existing Elevation (m)	-11.9	-11.9	-11.9	-11.9	-11.8	-11.8	-11.9	-11.9	-11.9	-12.0	-12.0	-12.0	-11.9
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00	
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5

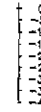
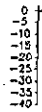
Legend:
 - - - - - Existing Elevation
 _____ Dredging Elevation

REV. NO.	DATE	COORDINATE	BY	APPROVED	DATE	<p>JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)</p>	<p>NIPPON KOEI CO., LTD.</p>	DESIGNED BY: CHECKED BY: APPROVED BY:	SECTION: DREDGING AND RECLAMATION WORK SUB-SECTION: OUTER CHANNEL TITLE: CROSS SECTIONS OF OUTER CHANNEL 129,130,131	DATE: OCTOBER/2002 SCALE: H.:1:2000 V.:1:2000 DRAWING NO.: DR-02-013

LAND SIDE

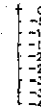
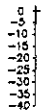
SEA SIDE

Sect 132



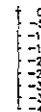
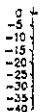
Existing Elevation (m)	-11.6	-11.7	-11.8	-11.7	-11.8	-11.6	-11.7	-11.7	-11.7	-11.7	-11.6	-11.7	-11.8
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00	
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25
Cum. Distance (m)	-150	-125	103.5	78.5	88.5	53.5	25	0.00	25	53.5	68.5	78.5	103.5

Sect 133



Existing Elevation (m)	-11.5	-11.5	-11.5	-11.4	-11.4	-11.4	-11.4	-11.5	-11.4	-11.4	-11.5	-11.5	-11.5
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00	
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25
Cum. Distance (m)	-150	-125	103.5	78.5	88.5	53.5	25	0.00	25	53.5	68.5	78.5	103.5

Sect 134



Existing Elevation (m)	-11.1	-11.4	-11.2	-11.3	-11.3	-11.2	-11.2	-11.3	-11.4	-11.2	-11.2	-11.2	-11.2
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00	
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25
Cum. Distance (m)	-150	-125	103.5	78.5	88.5	53.5	25	0.00	25	53.5	68.5	78.5	103.5

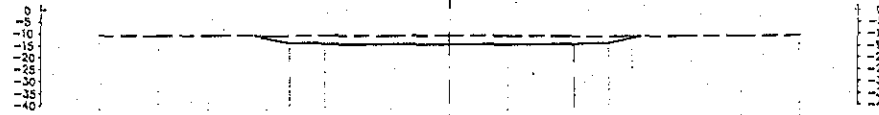
Legend:
 - - - - - Existing Elevation
 _____ Dredging Elevation

REV. NO.	DATE	CORRECTED	BY	APPROVED	DATE	<p>JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)</p>	<p>THE DETAILED DESIGN ON PORT REACTIVATION PROJECT IN LA UNION PROVINCY OF THE REPUBLIC OF EL SALVADOR NIPPON KOEI CO., LTD.</p>	DESIGNED BY:	SECTION :	DATE :
								<p>DESIGNED BY:</p> <p>APPROVED BY:</p>	<p>DREDGING AND RECLAMATION WORK</p> <p>OUTER CHANNEL</p> <p>CROSS SECTIONS OF OUTER CHANNEL</p> <p>132,133,134</p>	<p>OCTOBER/2002</p> <p>SCALE: H:1:2000</p> <p>V:1:2000</p> <p>DRAWING NO: DR-02-014</p>

LAND SIDE

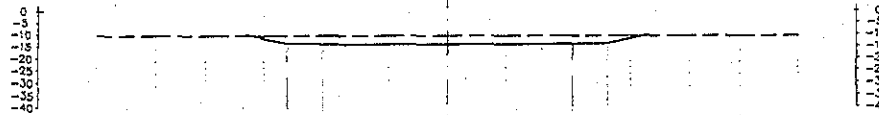
SEA SIDE

Sect 135



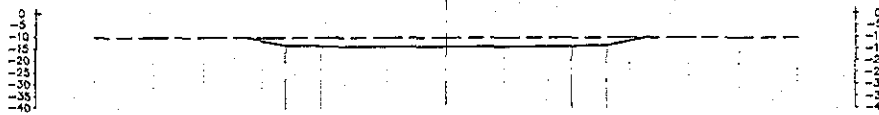
Existing Elevation (m)	-11.0	-11.1	-11.0	-11.1	-11.0	-11.1	-11.0	-11.1	-11.0	-11.1	-11.0	-11.0			
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00				
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

Sect 136



Existing Elevation (m)	-10.8	-10.9	-10.9	-10.9	-10.9	-10.9	-10.8	-10.9	-10.9	-10.9	-10.9	-10.8	-10.8		
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00			
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

Sect 137



Existing Elevation (m)	-10.7	-10.7	-10.6	-10.7	-10.7	-10.7	-10.6	-10.7	-10.7	-10.6	-10.7	-10.7			
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00				
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

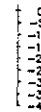
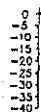
Legend:
 ----- Existing Elevation
 _____ Dredging Elevation

REV. NO.	DATE	COMMENTS	BY	APPROVED	DATE	<p>JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)</p> <p>CEPA COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)</p>	<p>NIPPON KOEI CO., LTD.</p>	DESIGNED BY :	SSCODE : DREDGING AND RECLAMATION WORK SUB-SECTION : OUTER CHANNEL TITLE : CROSS SECTIONS OF OUTER CHANNEL 135,136,137	DATE :	OCTOBER/2002
					CHECKED BY :			SCALE :		H: 1:2000 V: 1:2000	
					APPROVED BY :			DRAWING NO. :		OR-02-015	

LAND SIDE

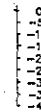
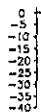
SEA SIDE

Sect 138



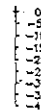
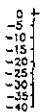
Existing Elevation (m)	-10.6	-10.6	-10.5	-10.5	-10.6	-10.6	-10.6	-10.6	-10.5	-10.5	-10.3	-10.5
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00	
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5

Sect 139



Existing Elevation (m)	-10.4	-10.4	-10.4	-10.4	-10.4	-10.4	-10.4	-10.4	-10.4	-10.4	-10.4	-10.4
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00	
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5

Sect 140



Existing Elevation (m)	-10.4	-10.3	-10.3	-10.3	-10.2	-10.2	-10.3	-10.2	-10.2	-10.2	-10.2	-10.3
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00	
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5

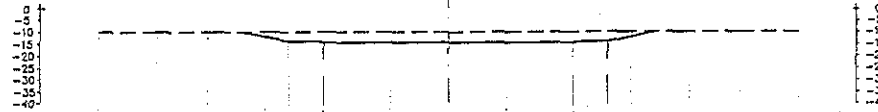
Legend:
 - - - - - Existing Elevation
 _____ Dredging Elevation

REV. NO.	DATE	COORDINATE	BY	APPROVED	DATE	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)	THE DETAILED DESIGN ON PORT REACTIVATION PROJECT IN LA UNION PROVINCE OF THE REPUBLIC OF EL SALVADOR NIPPON KOEI CO., LTD.	DESIGNED BY: CHECKED BY: APPROVED BY:	SECTION : DREDGING AND RECLAMATION WORK SUB-SECTION : OUTER CHANNEL TITLE : CROSS SECTIONS OF OUTER CHANNEL 138,139,140	DATE : OCTOBER,2002 SCALE : H.:1:2000 V.:1:2000 DRAWING NO. : DR-02-016
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LAND SIDE

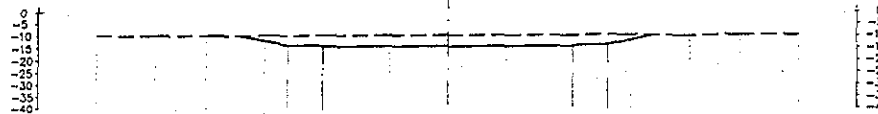
SEA SIDE

Sect 141



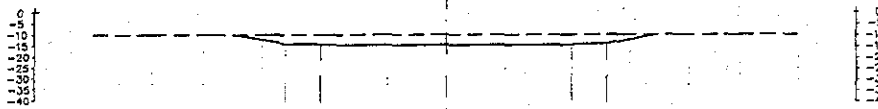
Existing Elevation (m)	-10.2	-10.1	-10.1	-10.1	-10.1	-10.1	-10.3	-10.1	-10.1	-10.0	-10.0	-10.0
Dredging Elevation (m)	-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00	
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10
Cum. Distance (m)	-150	-125	103.5	78.5	68.5	53.5	25	0.00	25	53.5	68.5	78.5

Sect 142



Existing Elevation (m)	-10.0	-10.1	-10.0	-10.0	-10.0	-10.0	-10.0	-10.0	-9.8	-9.8	-9.8	-9.8
Dredging Elevation (m)	-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00		
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10
Cum. Distance (m)	-150	-125	103.5	78.5	68.5	53.5	25	0.00	25	53.5	68.5	78.5

Sect 143



Existing Elevation (m)	-10.0	-10.0	-9.9	-9.9	-10.0	-9.9	-9.9	-9.9	-9.8	-9.8	-9.8	-9.8
Dredging Elevation (m)	-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00		
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10
Cum. Distance (m)	-150	-125	103.5	78.5	68.5	53.5	25	0.00	25	53.5	68.5	78.5

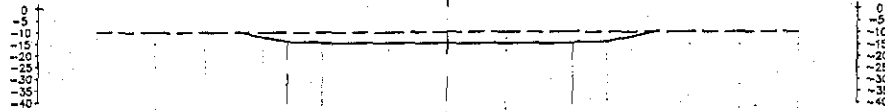
Legend:
 - - - - - Existing Elevation
 _____ Dredging Elevation

REV. NO.	DATE	COORDINATE	BY	APPROVED	DATE	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	GPA COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)	NIPPON KOEI CO., LTD.	DESIGNED BY:	SECTION	DREDGING AND RECLAMATION WORK OUTER CHANNEL CROSS SECTIONS OF OUTER CHANNEL 141, 142, 143	DATE	OCTOBER/2002
									CHECKED BY:	SUB-SECTION		SCALE:	H:1:2000 V:1:2000

LAND SIDE

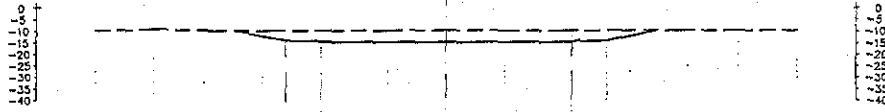
SEA SIDE

Sect 144



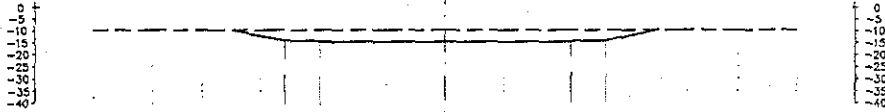
Existing Elevation (m)	-9.9	-9.8	-9.8	-9.8	-9.8	-9.8	-9.8	-9.8	-9.8	-9.7	-9.8	-9.8			
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.00		-7.00	-2.00			
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	68.5	53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

Sect 145



Existing Elevation (m)	-9.7	-9.8	-9.7	-9.8	-9.8	-9.7	-9.7	-9.7	-9.8	-9.8	-9.7	-9.7	-9.6		
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.00		-7.00	-2.00			
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	68.5	53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

Sect 146



Existing Elevation (m)	-9.7	-9.7	-9.6	-9.6	-9.6	-9.7	-9.6	-9.6	-9.6	-9.6	-9.5	-9.6	-9.5		
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.00		-7.00	-2.00			
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	68.5	53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

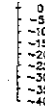
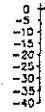
Legend:
 - - - - - Existing Elevation
 _____ Dredging Elevation

REV. NO.	DATE	COORDINATE	BY	APPROVED	DATE	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	GPA COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)	NIPPON KOEI CO., LTD.	DESIGNED BY : CHECKED BY : APPROVED BY :	SECTION : DREDGING AND RECLAMATION WORK SUB-SECTION : OUTER CHANNEL TITLE : CROSS SECTIONS OF OUTER CHANNEL 144,145,146	DATE : OCTOBER/2002 SCALE : H:1:2000 V:1:2000 DRAWING NO : DR-02-018

LAND SIDE

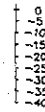
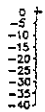
SEA SIDE

Sect 147



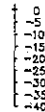
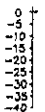
Existing Elevation (m)	-9.6	-9.7	-9.6	-9.6	-9.7	-9.6	-9.7	-9.7	-9.6	-9.6	-9.6	-9.6			
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00			
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	68.5	53.5	-25	0.00	25	53.5	88.5	78.5	103.5	125	150

Sect 148



Existing Elevation (m)	-9.6	-9.6	-9.6	-9.7	-9.6	-9.6	-9.6	-9.6	-9.6	-9.6	-9.6	-9.6			
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00			
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	68.5	53.5	-25	0.00	25	53.5	88.5	78.5	103.5	125	150

Sect 149



Existing Elevation (m)	-9.6	-9.6	-9.6	-9.6	-9.6	-9.6	-9.7	-9.7	-9.6	-9.6	-9.6	-9.7	-9.7		
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00			
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	68.5	53.5	-25	0.00	25	53.5	88.5	78.5	103.5	125	150

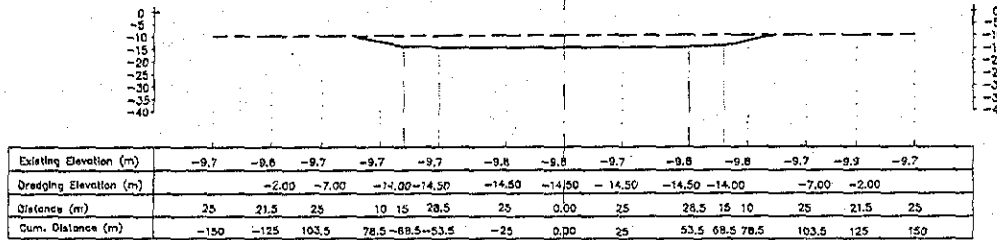
Legend:
 - - - - - Existing Elevation
 ————— Dredging Elevation

REV. NO.	DATE	DRAWN	BY	APPROVED	DATE	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)	THE DETAILED DESIGN ON PORT REACTIVATION PROJECT IN LA UNION PROVINCE OF THE REPUBLIC OF EL SALVADOR NIPPON KOEI CO., LTD.	DRAWN BY: CHECKED BY: APPROVED BY:	SECTION: DREDGING AND RECLAMATION WORK SUB-SECTION: OUTER CHANNEL TITLE: CROSS SECTIONS OF OUTER CHANNEL 147,148,149	DATE: OCTOBER/2002 SCALE: H:1:2000 V:1:2000 DRAWING NO: DR-02-019

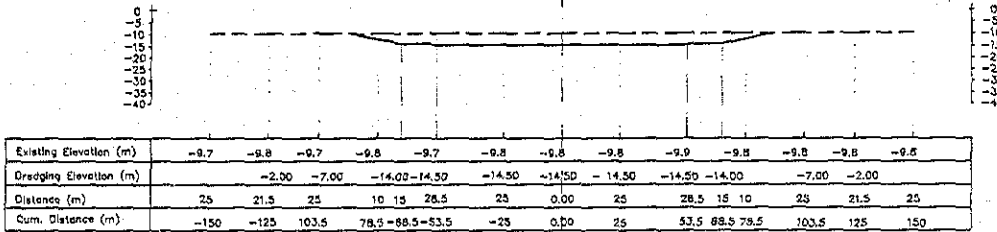
LAND SIDE

Sect 150

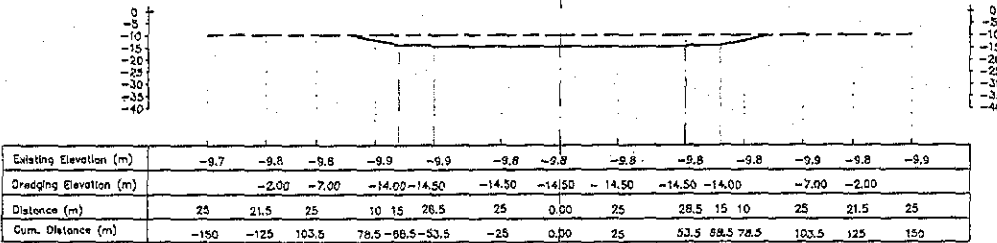
SEA SIDE



Sect 151



Sect 152



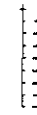
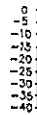
Legend:
 - - - - - Existing Elevation
 - - - - - Dredging Elevation

REV. NO.	DATE	COORDINATE	BY	APPROVED	DATE	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)	THE DETAILED DESIGN ON PORT REACTIVATION PROJECT IN LA UNION PROVINCE OF THE REPUBLIC OF EL SALVADOR NIPPON KOEI CO., LTD.	DEMAND BY : CHECKED BY : APPROVED BY :	SECTION : DREDGING AND RECLAMATION WORK SUB-SECTION : OUTER CHANNEL TITLE : CROSS SECTIONS OF OUTER CHANNEL 150,151,152	DATE : OCTOBER/2002 SCALE 1 H:1:2000 V:1:2000 DRAWING NO. CR-02-C20

LAND SIDE

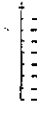
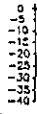
SEA SIDE

Sect 153



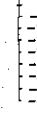
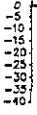
Existing Elevation (m)	-9.8	-9.8	-9.8	-9.5	-9.8	-9.7	-9.9	-9.8	-9.8	-9.8	-9.8	-9.9			
Dredging Elevation (m)	-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00				
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	88.5	78.5	103.5	125	150

Sect 154



Existing Elevation (m)	-9.8	-9.8	-9.8	-9.7	-9.7	-9.8	-9.8	-9.8	-9.7	-9.8	-9.9	-9.8	-9.8		
Dredging Elevation (m)	-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00				
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	88.5	78.5	103.5	125	150

Sect 155



Existing Elevation (m)	-9.7	-9.8	-9.8	-9.8	-9.9	-9.7	-9.8	-9.7	-9.8	-9.8	-9.8	-9.8			
Dredging Elevation (m)	-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00				
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	88.5	78.5	103.5	125	150

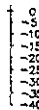
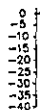
Legend:
 - - - - - Existing Elevation
 _____ Dredging Elevation

REV. NO.	DATE	COORDINATE	BY	APPROVED	DATE	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)	THE DETAILED DESIGN ON PORT REACTIVATION PROJECT IN LA UNION PROVINCE OF THE REPUBLIC OF EL SALVADOR NIPPON KOBI CO., LTD.	DESIGNED BY:	SECTION :	DATE :
								CHECKED BY:	SUB-SECTION :	OCTOBER/2002
								APPROVED BY:	W/C :	SCALE : H:1:2000 V:1:2000
							DREDGING AND RECLAMATION WORK OUTER CHANNEL CROSS SECTIONS OF OUTER CHANNEL 153,154,155			DRAWING NO. : DR-02-021

LAND SIDE

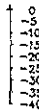
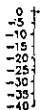
SEA SIDE

Sect 156



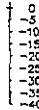
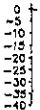
Existing Elevation (m)	-9.8	-9.8	-9.7	-9.8	-9.8	-9.7	-9.8	-9.8	-9.8	-9.8	-9.8	-9.9	-9.8		
Dredging Elevation (m)	-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00				
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	-88.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

Sect 157



Existing Elevation (m)	-9.9	-9.9	-9.8	-9.9	-10.0	-10.0	-9.9	-10.0	-9.9	-9.9	-9.9	-9.8	-9.9		
Dredging Elevation (m)	-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00				
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	-88.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

Sect 158



Existing Elevation (m)	-10.2	-9.9	-9.9	-9.9	-10.0	-10.0	-10.0	-10.0	-10.0	-10.1	-10.1	-10.0	-10.0		
Dredging Elevation (m)	-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00				
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	-88.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

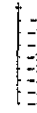
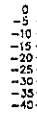
Legend:
 - - - - - Existing Elevation
 ————— Dredging Elevation

REV. NO.	DATE	COORDINATE	BY	IMPROVED	DATE	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)	THE DETAILED DESIGN ON PORT REACTIVATION PROJECT IN LA UNION PROVINCE OF THE REPUBLIC OF EL SALVADOR NIPPON KOKI CO., LTD.	DESIGNED BY :	SECTION : DREDGING AND RECLAMATION WORK SUB-SECTION : OUTER CHANNEL TITLE : CROSS SECTIONS OF OUTER CHANNEL 156,157,158	DATE :
									APPROVED BY :		SCALE :
									H.: 1:2000 V.: 1:2000 DRAWING NO.: DR-02-022		

LAND SIDE

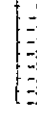
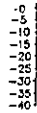
SEA SIDE

Sect 159



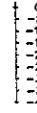
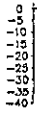
Existing Elevation (m)	-10.1	-10.1	-10.0	-10.3	-10.3	-10.3	-10.3	-10.2	-10.3	-10.1	-10.2	-10.1	-10.3		
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00			
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

Sect 160



Existing Elevation (m)	-10.1	-10.1	-10.3	-10.3	-10.3	-10.1	-10.1	-10.2	-10.2	-10.1	-10.1	-10.2	-10.2		
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00			
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

Sect 161



Existing Elevation (m)	-10.1	-10.1	-10.0	-10.0	-10.2	-10.2	-10.2	-10.3	-10.3	-10.2	-10.1	-10.3	-10.3		
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00			
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

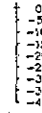
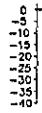
Legend:
 - - - - - Existing Elevation
 _____ Dredging Elevation

NOV. NO.	DATE	COORDINATE	BY	APPROVED	DATE	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)	THE DETAILED DESIGN ON PORT REACTIVATION PROJECT IN LA UNION PROVINCE OF THE REPUBLIC OF EL SALVADOR NIPPON KOEI CO., LTD.	DESIGNED BY: CHECKED BY: APPROVED BY:	SECTION : DREDGING AND RECLAMATION WORK SUB-SECTION : OUTER CHANNEL TITLE : CROSS SECTIONS OF OUTER CHANNEL 159,160,161	DATE : OCTOBER/2002 SCALE : H:1:2000 V:1:2000 DRAWING NO: DR-02-023
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LAND SIDE

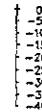
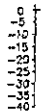
SEA SIDE

Sect 162



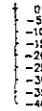
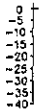
Existing Elevation (m)	-10.2	-10.3	-10.2	-10.2	-10.2	-10.3	-10.2	-10.2	-10.3	-10.2	-10.3	-10.3			
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00			
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	68.5	53.5	0.00	25	53.5	68.5	78.5	103.5	125	150	

Sect 163



Existing Elevation (m)	-10.3	-10.3	-10.3	-10.3	-10.3	-10.5	-10.3	-10.3	-10.3	-10.4	-10.4	-10.4	-10.3		
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00		
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	68.5	53.5	0.00	25	53.5	68.5	78.5	103.5	125	150	

Sect 164



Existing Elevation (m)	-10.3	-10.4	-10.5	-10.5	-10.4	-10.4	-10.3	-10.5	-10.4	-10.4	-10.5	-10.5	-10.5		
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00			
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	68.5	53.5	0.00	25	53.5	68.5	78.5	103.5	125	150	

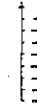
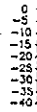
Legend:
 - - - - - Existing Elevation
 ————— Dredging Elevation

REV. NO.	DATE	CORRECTIVE	BY	APPROVED DATE	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)	THE DETAILED DESIGN ON PORT REACTIVATION PROJECT IN LA UNION PROVINCE OF THE REPUBLIC OF EL SALVADOR NIPPON KOEI CO., LTD.	DESIGNED BY: _____ CHECKED BY: _____ APPROVED BY: _____	SECTION : DREDGING AND RECLAMATION WORK SUB-SECTION : OUTER CHANNEL TITLE : CROSS SECTIONS OF OUTER CHANNEL 162,163,164	DATE : OCTOBER/2002 SCALE : H=1:2000 V=1:2000 DRAWING NO. : DR-02-024

LAND SIDE

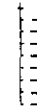
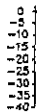
SEA SIDE

Sect 165



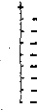
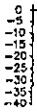
Existing Elevation (m)	-10.4	-10.4	-10.5	-10.5	-10.6	-10.5	-10.5	-10.6	-10.5	-10.5	-10.6	-10.5			
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00				
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	88.5	53.5	-25	0.00	25	53.5	88.5	78.5	103.5	125	150

Sect 166



Existing Elevation (m)	-10.5	-10.3	-10.3	-10.4	-10.4	-10.4	-10.3	-10.3	-10.4	-10.5	-10.6	-10.5	-10.7		
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00				
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	88.5	53.5	-25	0.00	25	53.5	88.5	78.5	103.5	125	150

Sect 167



Existing Elevation (m)	-10.5	-10.5	-10.4	-10.5	-10.5	-10.6	-10.6	-10.7	-10.6	-10.6	-10.7	-10.7	-10.6		
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00				
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	88.5	53.5	-25	0.00	25	53.5	88.5	78.5	103.5	125	150

Legend:

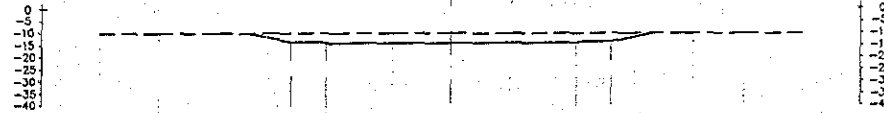
----- Existing Elevation
 _____ Dredging Elevation

REV. NO.	DATE	COORDINATE	BY	APPROVED	DATE	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)	THE DETAILED DESIGN ON PORT REACTIVATION PROJECT IN LA UNION PROVINCE OF THE REPUBLIC OF EL SALVADOR NIPPON KOEI CO., LTD.	DEMAND BY : CHECKED BY : APPROVED BY :	SECTION : DREDGING AND RECLAMATION WORK SUB-SECTION : OUTER CHANNEL TITLE : CROSS SECTIONS OF OUTER CHANNEL 165,166,167	DATE : OCTOBER/2002 SCALE : H: 1:2000 V: 1:2000 DRAWING NO : DR-02-025
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LAND SIDE

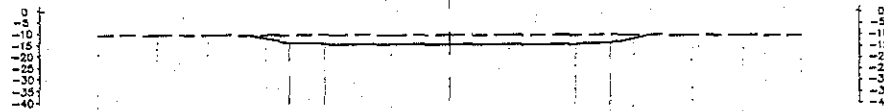
SEA SIDE

Sect 168



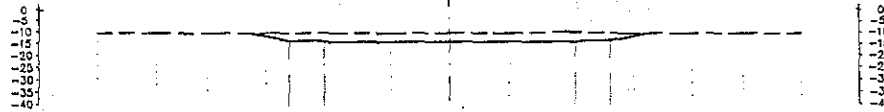
Existing Elevation (m)	-10.5	-10.4	-10.4	-10.5	-10.5	-10.5	-10.5	-10.6	-10.7	-10.6	-10.5	-10.7			
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00			
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

Sect 169



Existing Elevation (m)	-10.6	-10.6	-10.6	-10.6	-10.5	-10.6	-10.5	-10.5	-10.4	-10.5	-10.6	-10.7	-10.6		
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00			
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

Sect 170



Existing Elevation (m)	-10.6	-10.6	-10.7	-10.7	-10.7	-10.8	-10.7	-10.8	-10.0	-10.8	-10.6	-10.6			
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00			
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

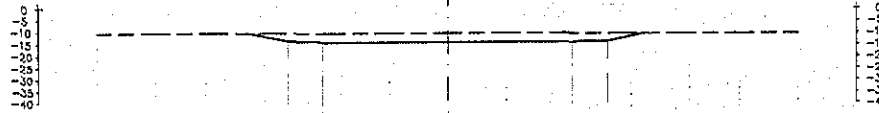
Legend:
 - - - - - Existing Elevation
 _____ Dredging Elevation

NO.	DATE	COORDINATE	BY	APPROVED	DATE	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)	THE DETAILED DESIGN OF PORT REACTIVATION PROJECT IN LA UNION PROVINCE OF THE REPUBLIC OF EL SALVADOR NIPPON KOEI CO., LTD.	DESIGNED BY: CHECKED BY: APPROVED BY:	SECTION : DREDGING AND RECLAMATION WORK SUB-SECTION : OUTER CHANNEL TITLE : CROSS SECTIONS OF OUTER CHANNEL 168,169,170	DATE : OCTOBER/2002 SCALE : H:1:2000 V:1:2000 DRAWING NO.: DR-02-025

LAND SIDE

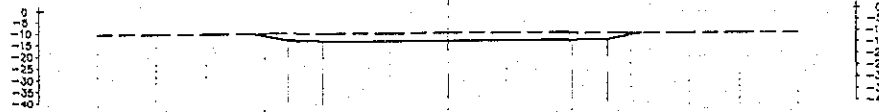
SEA SIDE

Sect 171



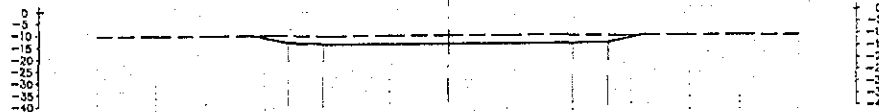
Existing Elevation (m)	-10.6	-10.7	-10.7	-10.8	-10.9	-10.8	-10.9	-10.9	-10.9	-10.9	-10.9	-10.8			
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.50	-7.00	-2.00			
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	-88.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

Sect 172



Existing Elevation (m)	-10.9	-11.0	-11.0	-10.9	-10.9	-11.0	-10.9	-11.0	-11.1	-11.1	-11.3	-11.2	-11.3		
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00			
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	-88.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

Sect 173



Existing Elevation (m)	-11.0	-11.0	-11.1	-11.1	-11.2	-11.0	-11.1	-11.2	-11.1	-11.2	-11.1	-11.1	-11.3		
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00			
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	-88.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

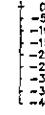
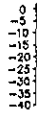
Legend:
 - - - - - Existing Elevation
 _____ Dredging Elevation

REV. NO.	DATE	CORRECTIVE	BY	APPROVED	DATE	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)	THE DETAILED DESIGN ON PORT REACTIVATION PROJECT IN LA UNION PROVINCE OF THE REPUBLIC OF EL SALVADOR NIPPON KOEI CO., LTD.	DEMAND BY:	SECTION: DREDGING AND RECLAMATION WORK	DATE: OCTOBER/2002
									CHECKED BY:	SUB-SECTION: OUTER CHANNEL	SCALE: H:1:2000 V:1:2000
								APPROVED BY:	TITLE: CROSS SECTIONS OF OUTER CHANNEL 171,172,173	DRAWING NO: DR-02-027	

LAND SIDE

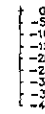
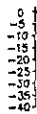
SEA SIDE

Sect 174



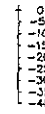
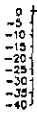
Existing Elevation (m)	-11.0	-10.9	-11.0	-11.1	-11.1	-11.0	-11.5	-11.0	-11.0	-11.0	-11.0	-11.3	-11.3
Dredging Elevation (m)	-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00	-2.00
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25
Cum. Distance (m)	-150	-125	103.5	78.5	68.5	53.5	-25	0.00	25	53.5	68.5	78.5	103.5

Sect 175



Existing Elevation (m)	-11.1	-11.1	-11.1	-11.1	-11.2	-11.1	-11.2	-11.0	-11.2	-11.2	-11.2	-11.2	-11.3
Dredging Elevation (m)	-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00	-2.00
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25
Cum. Distance (m)	-150	-125	103.5	78.5	68.5	53.5	-25	0.00	25	53.5	68.5	78.5	103.5

Sect 176



Existing Elevation (m)	-11.1	-11.1	-11.2	-11.1	-11.3	-11.3	-11.3	-11.3	-11.3	-11.3	-11.3	-11.4	-11.4
Dredging Elevation (m)	-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00	-2.00
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25
Cum. Distance (m)	-150	-125	103.5	78.5	68.5	53.5	-25	0.00	25	53.5	68.5	78.5	103.5

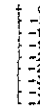
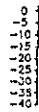
Legend:
 - - - - - Existing Elevation
 _____ Dredging Elevation

NO. / DATE	COORDINATE	BY	APPROVED	DATE		JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)	THE DETAILED DESIGN ON FORT REACTIVATION PROJECT IN LA UNION PROVINCE OF THE REPUBLIC OF EL SALVADOR NIPPON KOEI CO., LTD.	DESIGNED BY:	SECTION : DREDGING AND RECLAMATION WORK SUB-SECTION : OUTER CHANNEL TITLE : CROSS SECTIONS OF OUTER CHANNEL 174,175,176	DATE:	OCTOBER/2002
								CHECKED BY:		SCALE:	H:1:2000 V:1:2000
								APPROVED BY:		GRADING NO:	DR-02-028

LAND SIDE

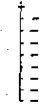
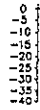
SEA SIDE

Sect 177



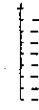
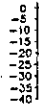
Existing Elevation (m)	-11.3	-11.4	-11.4	-11.4	-11.3	-11.3	-11.3	-11.3	-11.2	-11.2	-11.4	-11.5	-11.5
Dredging Elevation (m)	-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-14.00	-7.00	-2.00	
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25
Cum. Distance (m)	-150	-125	103.5	78.5	68.5	53.5	-25	0.00	25	53.5	68.5	78.5	103.5

Sect 178



Existing Elevation (m)	-11.4	-11.4	-11.4	-11.5	-11.5	-11.5	-11.5	-11.5	-11.5	-11.6	-11.6	-11.6	-11.6
Dredging Elevation (m)	-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-14.00	-7.00	-2.00	
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25
Cum. Distance (m)	-150	-125	103.5	78.5	68.5	53.5	-25	0.00	25	53.5	68.5	78.5	103.5

Sect 179



Existing Elevation (m)	-11.5	-11.5	-11.5	-11.5	-11.4	-11.7	-11.6	-11.6	-11.7	-11.6	-11.8	-11.7	-11.8
Dredging Elevation (m)	-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-14.00	-7.00	-2.00	
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25
Cum. Distance (m)	-150	-125	103.5	78.5	68.5	53.5	-25	0.00	25	53.5	68.5	78.5	103.5

Legend:

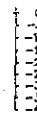
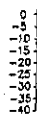
----- Existing Elevation
 - - - - - Dredging Elevation

NO.	REV.	DATE	COORDINATE	BY	APPROVED	DATE	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)	THE DETAILED DESIGN ON PORT REACTIVATION PROJECT IN LA UNION PROVINCE OF THE REPUBLIC OF EL SALVADOR	DESIGNED BY:	SCHEM : DREDGING AND RECLAMATION WORK SUB-SECTION : OUTER CHANNEL TITLE : CROSS SECTIONS OF OUTER CHANNEL 177,178,179	DATE : OCTOBER/2002
										CHECKED BY:		SCALE : H:1:2000 V:1:2000
							NIPPON KOEI CO., LTD.	APPROVED BY:				

LAND SIDE

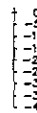
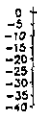
SEA SIDE

Sect 180



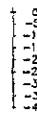
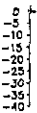
Existing Elevation (m)	-11.5	-11.5	-11.6	-11.4	-11.8	-11.8	-11.6	-11.7	-11.7	-11.6	-11.7	-11.7			
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00			
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

Sect 181



Existing Elevation (m)	-11.5	-11.7	-11.8	-11.8	-11.7	-11.5	-11.7	-11.8	-11.9	-11.9	-11.8	-11.8	-11.6		
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00			
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

Sect 182



Existing Elevation (m)	-11.8	-11.8	-11.9	-11.9	-12.0	-11.9	-11.9	-11.9	-12.0	-11.8	-11.8	-12.1	-12.0		
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00			
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

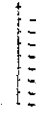
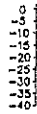
Legend:
 - - - - - Existing Elevation
 ———— Dredging Elevation

REV. NO.	DATE	COORDINATE	BY	APPROVED	DATE	<p>JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)</p>	<p>NIPPON KOEI CO., LTD.</p>	DESIGNED BY : CHECKED BY : APPROVED BY :	SECTION : DREDGING AND RECLAMATION WORK SUB-SECTION : OUTER CHANNEL TITLE : CROSS SECTIONS OF OUTER CHANNEL 180,181,182	DATE : OCTOBER/2002 SCALE : H:1:2000 V:1:2000 DRAWING NO : DR-02-030

LAND SIDE

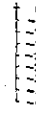
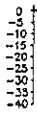
SEA SIDE

Sect 183



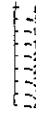
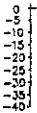
Existing Elevation (m)	-11.6	-11.0	-11.8	-11.9	-11.8	-11.7	-11.9	-11.8	-11.8	-11.9	-12.0	-12.1			
Dredging Elevation (m)		-2.00	-7.00	-14.00-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00				
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

Sect 184



Existing Elevation (m)	-12.0	-11.8	-11.9	-11.9	-12.0	-12.0	-12.0	-11.9	-12.1	-12.1	-11.9	-11.9	-12.1		
Dredging Elevation (m)		-2.00	-7.00	-14.00-14.50	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00			
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

Sect 185



Existing Elevation (m)	-11.9	-11.9	-11.8	-11.9	-11.9	-12.0	-12.1	-12.1	-12.1	-12.1	-12.1	-12.1			
Dredging Elevation (m)		-2.00	-7.00	-14.00-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00				
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

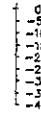
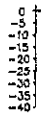
Legend:
 - - - - - Existing Elevation
 ————— Dredging Elevation

REV. NO.	DATE	COORDINATE	BY	APPROVED	DATE	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	GPA COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)	NIPPON KOEI CO., LTD.	THE DETAILED DESIGN ON PORT REACTIVATION PROJECT IN LA UNION PROVINCE OF THE REPUBLIC OF EL SALVADOR	DEMAND BY : CHECKED BY : APPROVED BY :	SECTION : DREDGING AND RECLAMATION WORK SUB-SECTION : OUTER CHANNEL TITLE : CROSS SECTIONS OF OUTER CHANNEL 183,184,185	DATE : OCTOBER/2002 SCALE : H:1:2000 V:1:2000 DRAWING NO : DR-02-031
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LAND SIDE

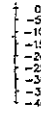
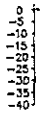
SEA SIDE

Sect 186



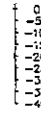
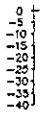
Existing Elevation (m)	-11.9	-11.9	-11.9	-12.0	-13.0	-12.9	-12.0	-12.0	-12.0	-12.1	-12.1	-12.2	-12.2
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00	
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25
Cum. Distance (m)	-150	-125	103.5	78.5	68.5	53.5	-25	0.00	25	53.5	68.5	78.5	103.5

Sect 187



Existing Elevation (m)	-12.0	-12.1	-12.1	-12.1	-12.1	-12.2	-12.2	-12.4	-12.3	-12.3	-12.3	-12.3	-12.2
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00	
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25
Cum. Distance (m)	-150	-125	103.5	78.5	68.5	53.5	-25	0.00	25	53.5	68.5	78.5	103.5

Sect 188



Existing Elevation (m)	-12.0	-12.0	-12.1	-12.2	-12.2	-12.2	-12.3	-12.3	-12.2	-12.2	-12.3	-12.3
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00	
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10
Cum. Distance (m)	-150	-125	103.5	78.5	68.5	53.5	-25	0.00	25	53.5	68.5	78.5

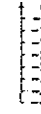
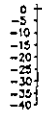
Legend:
 - - - - - Existing Elevation
 _____ Dredging Elevation

REV. NO.	DATE	COORDINATE	BY	APPROVED	DATE	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)	THE DETAILED DESIGN ON PORT REACTIVATION PROJECT IN LA UNION PROVINCE OF THE REPUBLIC OF EL SALVADOR NIPPON KOEI CO., LTD.	DEMAND BY : CHECKED BY : APPROVED BY :	SECTION : DREDGING AND RECLAMATION WORK SUB-SECTION : OUTER CHANNEL TITLE : CROSS SECTIONS OF OUTER CHANNEL 186,187,188	DATE : OCTOBER/2002 SCALE : H:V:2000 V:1:2000 DRAWING NO: DR-02-032

LAND SIDE

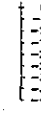
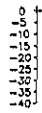
SEA SIDE

Sect 189



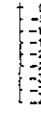
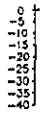
Existing Elevation (m)	-12.4	-12.3	-12.3	-12.4	-12.3	-12.3	-12.3	-12.4	-12.4	-12.4	-12.4	-12.3			
Dredging Elevation (m)	-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00				
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	88.5	78.5	103.5	125	150

Sect 190



Existing Elevation (m)	-12.3	-12.3	-12.3	-12.4	-12.5	-12.5	-12.5	-12.5	-12.5	-12.5	-12.5	-12.5			
Dredging Elevation (m)	-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00				
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

Sect 191



Existing Elevation (m)	-12.4	-12.4	-12.4	-12.5	-12.5	-12.5	-12.3	-12.5	-12.5	-12.6	-12.5	-12.5			
Dredging Elevation (m)	-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00				
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

Legend:
 - - - - - Existing Elevation
 _____ Dredging Elevation

REV. NO.	DATE	COORDINATE	BY	APPROVED	DATE	 JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	 COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)	 THE DETAILED DESIGN ON PORT REACTIVATION PROJECT IN LA UNION PROVINCE OF THE REPUBLIC OF EL SALVADOR NIPPON KOEI CO., LTD.	DESIGNED BY:	SECTION : DREDGING AND RECLAMATION WORK SUB-SECTION : OUTER CHANNEL TITLE : CROSS SECTIONS OF OUTER CHANNEL 189,190,191	DATE:

LAND SIDE

SEA SIDE

Sect 192

0
-5
-10
-15
-20
-25
-30
-35
-40

0
-5
-10
-15
-20
-25
-30
-35
-40

Existing Elevation (m)	-12.4	-12.6	-12.6	-12.6	-12.6	-12.5	-12.5	-12.5	-12.5	-12.4	-12.6	-12.6			
Dredging Elevation (m)	-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00				
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

Sect 193

0
-5
-10
-15
-20
-25
-30
-35
-40

0
-5
-10
-15
-20
-25
-30
-35
-40

Existing Elevation (m)	-12.5	-12.5	-12.5	-12.6	-12.7	-12.7	-12.7	-12.7	-12.7	-12.7	-12.7	-12.7			
Dredging Elevation (m)	-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00				
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150




Sect 194

0
-5
-10
-15
-20
-25
-30
-35
-40

0
-5
-10
-15
-20
-25
-30
-35
-40

Existing Elevation (m)	-12.5	-12.6	-12.6	-12.6	-12.7	-12.7	-12.6	-12.7	-12.7	-12.7	-12.8	-12.8	-12.8		
Dredging Elevation (m)	-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00				
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

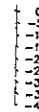
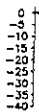
Legend:
 - - - - - Existing Elevation
 - - - - - Dredging Elevation

REV. NO.	DATE	COORDINATE	BY	APPROVED DATE	 JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	 COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)	 THE DETAILED DESIGN ON PORT REACTIVATION PROJECT IN LA UNION PROVINCE OF THE REPUBLIC OF EL SALVADOR	NIPPON KOEI CO., LTD.	DESIGNED BY: CHECKED BY: APPROVED BY:	SECTION : DREDGING AND RECLAMATION WORK SUB-SECTION : OUTER CHANNEL TITLE : CROSS SECTIONS OF OUTER CHANNEL 192,193,194	DATE : OCTOBER/2002 SCALE : H:1:2000 V:1:2000 DRAWING NO. : OR-02-034
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LAND SIDE

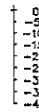
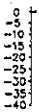
SEA SIDE

Sect 195



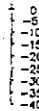
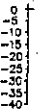
Existing Elevation (m)	-12.7	-12.7	-12.8	-12.7	-12.7	-12.8	-12.8	-12.8	-12.8	-12.8	-12.9	-12.9			
Dredging Elevation (m)	-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00				
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

Sect 196



Existing Elevation (m)	-12.7	-12.7	-12.8	-12.8	-12.8	-12.8	-12.8	-12.8	-12.8	-12.8	-12.9	-12.9			
Dredging Elevation (m)	-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00				
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

Sect 197



Existing Elevation (m)	-12.7	-12.8	-12.8	-12.8	-12.8	-12.9	-12.9	-13.0	-12.9	-12.9	-12.9	-12.9	-13.0		
Dredging Elevation (m)	-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00				
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	26.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

Legend:

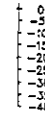
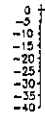
----- Existing Elevation
 - - - - - Dredging Elevation

REV. NO.	DATE	COORDINATE	BY	APPROVED	DATE	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)	THE DETAILED DESIGN ON PORT REACTIVATION PROJECT IN LA UNION PROVINCE OF THE REPUBLIC OF EL SALVADOR NIPPON KOEI CO., LTD.	DESIGNED BY : CHECKED BY : APPROVED BY :	SECTION : DREDGING AND RECLAMATION WORK SUB-SECTION : OUTER CHANNEL TITLE : CROSS SECTIONS OF OUTER CHANNEL 195,196,197	DATE : OCTOBER/2002 SCALE : H.:1:2000 V.:1:2000 DRAWING NO.: DR-02-035
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LAND SIDE

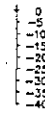
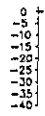
Sect 201

SEA SIDE



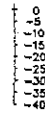
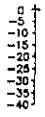
Existing Elevation (m)	-13.2	-13.2	-13.1	-13.2	-13.2	-13.2	-13.2	-13.3	-13.3	-13.3	-13.2	-13.3
Dredging Elevation (m)	-2.00	-7.00	-14.00-14.50	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00	
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10
Cum. Distance (m)	-150	-125	103.5	78.5	-88.5	-53.5	-25	0.00	25	53.5	68.5	78.5

Sect 202



Existing Elevation (m)	-13.2	-13.2	-13.2	-13.2	-13.2	-13.2	-13.2	-13.3	-13.3	-13.3	-13.2	-13.3
Dredging Elevation (m)	-2.00	-7.00	-14.00-14.50	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00	
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10
Cum. Distance (m)	-150	-125	103.5	78.5	-88.5	-53.5	-25	0.00	25	53.5	68.5	78.5

Sect 203



Existing Elevation (m)	-13.3	-13.4	-13.3	-13.3	-13.3	-13.3	-13.3	-13.4	-13.5	-13.4	-13.4	-13.4
Dredging Elevation (m)	-2.00	-7.00	-14.00-14.50	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00	
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10
Cum. Distance (m)	-150	-125	103.5	78.5	-88.5	-53.5	-25	0.00	25	53.5	68.5	78.5

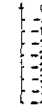
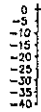
Legend:
 - - - - - Existing Elevation
 ————— Dredging Elevation

REV. NO.	DATE	COORDINATE	BY	APPROVED	DATE	<p>JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)</p>	<p>NIPPON KOEI CO., LTD.</p>	DESIGNED BY: CHECKED BY: APPROVED BY:	RECORD SUB-SECTION TITLE	DREDGING AND RECLAMATION WORK OUTER CHANNEL CROSS SECTIONS OF OUTER CHANNEL 201,202,203	DATE: SCALE: H:1:2000 V:1:2000 DRAWING NO: DR-02-037	
								THE DETAILED DESIGN ON PORT REACTIVATION PROJECT IN LA UNION PROVINCE OF THE REPUBLIC OF EL SALVADOR			DREDGING AND RECLAMATION WORK OUTER CHANNEL CROSS SECTIONS OF OUTER CHANNEL 201,202,203	DATE: OCTOBER/2002 SCALE: H:1:2000 V:1:2000 DRAWING NO: DR-02-037
								JICA COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)			NIPPON KOEI CO., LTD.	DREDGING AND RECLAMATION WORK OUTER CHANNEL CROSS SECTIONS OF OUTER CHANNEL 201,202,203

LAND SIDE

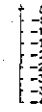
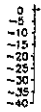
SEA SIDE

Sect 204



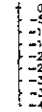
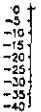
Existing Elevation (m)	-13.4	-13.4	-13.4	-13.4	-13.3	-13.4	-13.5	-13.5	-13.5	-13.5	-13.5	-13.5			
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00			
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

Sect 205



Existing Elevation (m)	-13.5	-13.5	-13.6	-13.5	-13.5	-13.5	-13.5	-13.5	-13.4	-13.4	-13.5	-13.5	-13.5		
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00			
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

Sect 206



Existing Elevation (m)	-13.6	-13.6	-13.6	-13.5	-13.6	-13.5	-13.6	-13.7	-13.6	-13.6	-13.7	-13.7	-13.7		
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00			
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

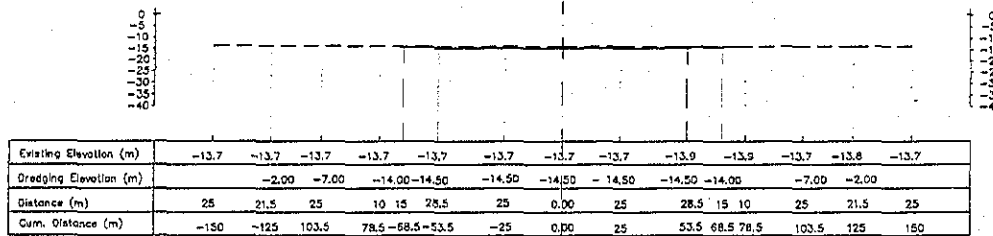
Legend:
 - - - - - Existing Elevation
 - - - - - Dredging Elevation

NOV. NO.	DATE	COORDINATE	BY	APPROVED	DATE	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)	THE DETAILED DESIGN ON PORT REACTIVATION PROJECT IN LA UNION PROVINCE OF THE REPUBLIC OF EL SALVADOR NIPPON KOEI CO., LTD.	DESIGNED BY:	STATION:	DREDGING AND RECLAMATION WORK OUTER CHANNEL CROSS SECTIONS OF OUTER CHANNEL 204,205,206	DATE:	OCTOBER/2002 SCALE: H: 1:2000 V: 1:2000 DRAWING NO.: DR-02-038
					CHECKED BY:			SRV-SECTION:				
					APPROVED BY:			FILE:				

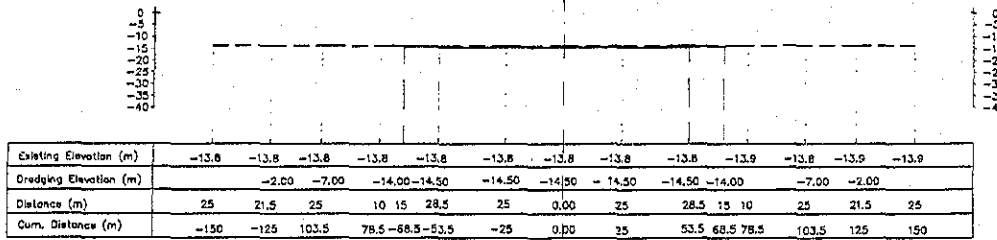
LAND SIDE

SEA SIDE

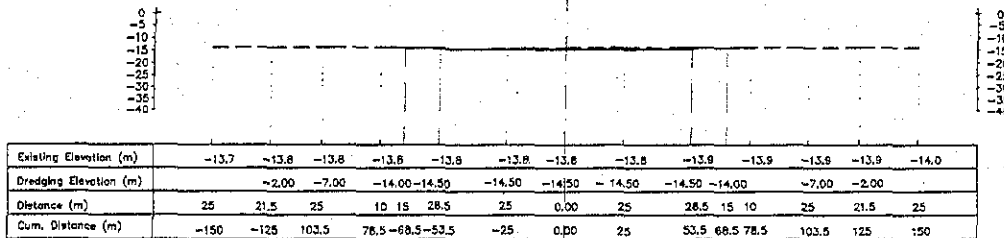
Sect 207



Sect 208



Sect 209



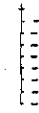
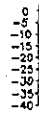
Legend:
 - - - - - Existing Elevation
 - - - - - Dredging Elevation

NO.	DATE	COORDINATE	BY	APPROVED	DATE	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)	THE DETAILED DESIGN ON PORT REACTIVATION PROJECT IN LA UNION PROVINCE OF THE REPUBLIC OF EL SALVADOR NIPPON KOEI CO., LTD.	DESIGNED BY:	SECTION:	DATE:
								CHECKED BY:	SUB-SECTION:	OCTOBER/2002
								APPROVED BY:	DREDGING AND RECLAMATION WORK OUTER CHANNEL CROSS SECTIONS OF OUTER CHANNEL. 207,208,209	SCALE: H: 1:2000 V: 1:2000 DRAWING NO: DR-02-039

LAND SIDE

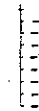
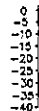
Sect 210

SEA SIDE



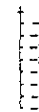
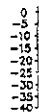
Existing Elevation (m)	-13.9	-14.0	-14.0	-14.0	-14.0	-13.9	-13.9	-13.9	-13.9	-13.9	-14.0	-14.0	-13.9		
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00			
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	68.5	53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

Sect 211



Existing Elevation (m)	-14.0	-14.0	-14.0	-14.0	-14.2	-14.1	-14.1	-14.1	-14.1	-14.1	-14.1	-14.1	-14.1		
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00			
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	68.5	53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

Sect 212



Existing Elevation (m)	-14.1	-14.3	-14.2	-14.2	-14.2	-14.2	-14.2	-14.2	-14.3	-14.2	-14.2	-14.2	-14.3		
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00			
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	68.5	53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

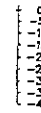
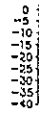
Legend:
 - - - - - Existing Elevation
 _____ Dredging Elevation

REV. NO.	DATE	COORDINATE	BY	APPROVED	DATE	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)	THE DETAILED DESIGN ON PORT REACTIVATION PROJECT IN LA UNION PROVINCE OF THE REPUBLIC OF EL SALVADOR NIPPON KOEI CO., LTD.	DESIGNED BY : CHECKED BY : APPROVED BY :	SECTION : DREDGING AND RECLAMATION WORK SUB-SECTION : OUTER CHANNEL TITLE : CROSS SECTIONS OF OUTER CHANNEL 210,211,212	DATE : OCTOBER/2002 SCALE : H:1:2000 V:1:2000 DRAWING NO. : DR-02-040

LAND SIDE

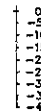
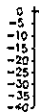
SEA SIDE

Sect 213



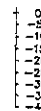
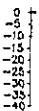
Existing Elevation (m)	-14.2	-14.3	-14.3	-14.2	-14.2	-14.3	-14.2	-14.2	-14.3	-14.3	-14.2	-14.2			
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00			
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

Sect 214



Existing Elevation (m)	-14.2	-14.3	-14.2	-14.2	-14.3	-14.2	-14.3	-14.2	-14.3	-14.3	-14.4	-14.3	-14.4		
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00			
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

Sect 215



Existing Elevation (m)	-14.3	-14.4	-14.4	-14.4	-14.5	-14.4	-14.5	-14.5	-14.5	-14.5	-14.5	-14.5	-14.4		
Dredging Elevation (m)		-2.00	-7.00	-14.00	-14.50	-14.50	-14.50	-14.50	-14.50	-14.00	-7.00	-2.00			
Distance (m)	25	21.5	25	10	15	28.5	25	0.00	25	28.5	15	10	25	21.5	25
Cum. Distance (m)	-150	-125	103.5	78.5	-68.5	-53.5	-25	0.00	25	53.5	68.5	78.5	103.5	125	150

Legend:

----- Existing Elevation
 - - - - - Dredging Elevation

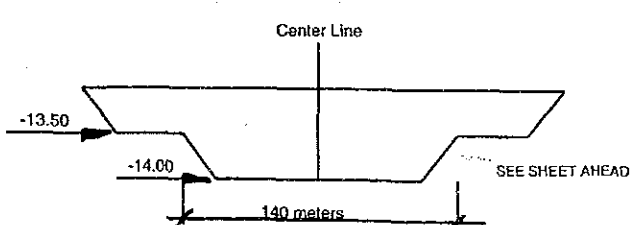
REV. NO.	DATE	CORRECTION	BY	APPROVED DATE	 JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	 COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)	 NIPPON KOEI CO., LTD.	DESIGNED BY :	SECTION :	DREDGING AND RECLAMATION WORK OUTER CHANNEL CROSS SECTIONS OF OUTER CHANNEL 213,214,215	DATE :
								DRAWN BY :	SUB-SECTION :		OCTOBER/2002
								APPROVED BY :	SCALE :	H: 1:2000 V: 1:2000	
									DRAWING NO. :	DR-02-041	

QUANTITY CALCULATION COVER SHEET								
Project	Detailed Design on Port Reactivation Project in La Union Province		Project Code	JC1N004/2N001				
Work Section Title	Dredging Work		Pay Item No. (BOQ)	2A-03				
Quantity Item	Inner Channel Dredging		Unit	m ³				
<p>Calculation Procedure Applied (offshore dumping)</p> <p>Offshore dumping volume was computed based on the assumption that offshore dumping volume was 74.3% 25.0% of dredging volume.</p>								
<p>References, Calculation Base and Revisions</p> <p>Inner Channel Dredging (calculation by Excel)</p>								
Rev	Prepared		No. of Pages	Checked		Reviewed		Superseded by Calc No.
	by	Date		by	Date	by	Date	
0	JAM	2 May 2002						
1								
2								
3								

Project	Detailed Design on Port Reactivation Project in La Union	Calc. File No.	
Section	Inner Channel Dredging	Calc. Index No.	
Subject	Offshore dumping	Page No.	Rev.
$4,469,000 \times \frac{0.75}{0.75} = 3,352,000 \text{ m}^3$		References/ Notes	
Prepared by		Checked by	
/ /200		/ /200	

QUANTITY CALCULATION COVER SHEET								
Project	Detailed Design on Port Reactivation Project in La Union Province			Project Code	JC1N004/2N001			
Work Section Title	Dredging Work			Pay Item No. (BOQ)	2A-14			
Quantity Item	Inner Channel Dredging			Unit	m ²			
<u>Calculation Procedure Applied</u>								
<p>(onshore dumping)</p> <p>Onshore dumping volume was computed based on the assumption that onshore dumping volume was 2.65 2.50 % of dredging volume.</p>								
<u>References, Calculation Base and Revisions</u>								
<p>Inner Channel Dredging (calculation by Excel)</p>								
Rev	Prepared		No. of Pages	Checked		Reviewed		Superseded by Calc No.
	by	Date		by	Date	by	Date	
0	SAM JS	2 May 2002						
1								
2								
3								

Project	Detailed Design on Port Reactivation Project in La Union	Calc. File No.	
Section	Inner Channel Dredging	Calc. Index No.	
Subject	Onshore dumping	Page No.	Rev.
$14,69,000 \times 0.25 = 3,672,500 \text{ m}^3$ $0.25 = 1,117,000 \text{ m}^3$			References/ Notes
Prepared by		Checked by	
/ /200		/ /200	

QUANTITY CALCULATION COVER SHEET								
Project	Detailed Design on Port Reactivation Project in La Union Province			Project Code				
Work Section Title	Dredging Work			Pay Item No. (BOQ)				
Quantity Item	Inner Channel Dredging (Sect. 0 to 50)			Unit		cubic meter		
Calculation Procedure Applied								
<ol style="list-style-type: none"> 1. Calculation of Areas of Sections (Excel) 2. Average of Areas of Sections (Excel) 3. Calculation of Volume: average of sections times distance between sections (Excel). 								
References, Calculation Base and Revisions								
1. Typical Section of Inner Channel								
2. Area and Volumes have been calculated starting from Section 0 up to Section 44, in accordance with the General Plan of Inner Channel dredging N° DW-DR-00-002. From Section 45 to 50 no dredging due to deeper than dredging elevation planned.								
3. Design Information								
Slope: 1:5 (vertical:horizontal)								
Depth: -14.0 meters								
Width: 140 meters								
Rev	Prepared		No. of Pages	Checked		Reviewed		Superseded by Calc No.
	by	Date		by	Date	by	Date	
0	jam	02/may/2002	24					
1								
2								
3								

File in Calc. File

Project	Detailed Design on Port Reactivation Project in La Union	Calc. File No.	
Section	DREDGING WORK.	Calc. Index No.	
Subject	Area Distribution Inner Channel	Page No.	Rev.
		References/Notes	
Prepared by		Checked by	
Jam		7 / May / 200	
		/ / 200	

Project	Detailed Design on Port Reactivation Project in La Union		Calc. File No.	
Section	Dredging Work		Calc. Index No.	
Subject	Area Calculation Inner Channel		Page No.	Rev.
				References/ Notes
area 1 = $[(13.5 - b) \times (13.5 - b) \times 5] / 2$				
area 2 = $[(13.5 - b) \times 12.5] / 2$				
area 3 = $[(13.5 - c) \times 12.5] / 2$				
area 4 = $[(13.5 - c) \times 2.5] / 2$				
area 5 = $[(13.5 - d) \times 2.5] / 2$				
area 6 = $[(14.0 - 13.5) \times 2.5] / 2$				
area 7 = $[(14.0 - d) \times 30] / 2$				
area 8 = $[(14.0 - e) \times 30] / 2$				
area 9 = $[(14.0 - e) \times 25] / 2$				
area 10 = $[(14.0 - f) \times 25] / 2$				
area 11 = $[(14.0 - f) \times 25] / 2$				
area 12 = $[(14.0 - g) \times 25] / 2$				
area 13 = $[(14.0 - g) \times 30] / 2$				
area 14 = $[(14.0 - h) \times 30] / 2$				
area 15 = $[(13.5 - h) \times 2.5] / 2$				
area 16 = $[(13.5 - i) \times 2.5] / 2$				
area 17 = $[(14.0 - 13.5) \times 2.5] / 2$				
area 18 = $[(13.5 - i) \times 12.5] / 2$				
area 19 = $[(13.5 - j) \times 12.5] / 2$				
area 20 = $[(13.5 - j) \times (13.5 - j) \times 5] / 2$				
		Prepared by	Checked by	
		jam	7 / May /200	/ /200