	QUANTITY CALCULATION COVER SHEET								
Project	Project Detailed Design on Port Reactivation Project In La Union Province Project Code JC1N004/2N00								
Work Section Title	West Revetment	Pay Item No. (BOQ)							
Quantity Item	Excavation (above -9.5m spaside)	Unit	m ³						

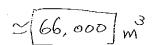
- 1 Calculation of Areas of Sections (Excel)
- 2. Average of Areas of Sections (Excel)
- 3 Calculation of Volume: Average of Areas of Sections
 times distance between Sections
 (Excel)

References, Calculation Base and Revisions

Rev	Prepa	Prepared		Chec	ked	Revie	wed	Superseded
	by a	Date	Pages	by .	Date	by	Date	by Calc No.
0	Koila G			Hr. Inuma		Mr. Ando		
1								
2		1					· · · · · · · · · · · · · · · · · · ·	
3								

OWest Revetment

Excavation for Foundation (sea side) Above -9.50m Average Area Distance Section No. Area (m²) of 2 Sections Between Volume (m³) Sections (m) (m²)0.00 No.4 0.08 9.80 0.78 No.4+9.80 0.16 3.36 5.06 16.98 No.4+14.86 6,55 15.24 10.14 154.53 23.93 No.5 55.13 15.00 826.95 86.33 No.5+15.00 84.39 168.77 2.00 No.5+17.00 82.44 92.66 8.00 741.28 No.6 102.88 3,360.25 134.41 25.00No.7 165.94 199.86 2,997.90 15.00 No.7+15.00 233.78 213.41 6.00 1,280.46 No.7+21.00 193.04 199.86 4.00 799.44 No.8 206.68 235.38 25.00 5,884.38 No.9 264.07 279.45 25.00 6,986.13 No.10 294.82 301.20 10.00 3,012.00 No.10+10.00 307.58 272.07 1,632.42 6.00 No.10+16.00 236.56 245.32 9.00 2,207.84 No.11 254.07 268.62 12.50 3,357.75 283.17 No.11+12.50 292.75 5.30 1,551.55 No.11+17.80 302.32 261.17 3.00 783.50 220.01 No.11+20.80 225.91 4.20 948.82 No.12 231.81 256.60 25.00 6,415.00 No.13 281.39 287.07 11.00 3,157.77 No.13+11.00 292.75 298.81 14.00 4,183.27 304.86 No.14 304.86 1.00 304.86 No.14+1.00 304.86 309.30 8.60 2,659.94 No.14+9.60 313.73 318.63 8.40 2,676.45 No.14+18.00 323.52 7,100.23 258.19 27.50 No.14+45.50 192.86 96.43 19.75 1,904.49 0.00 No.14+65.25 315.25 65,113.72 Total



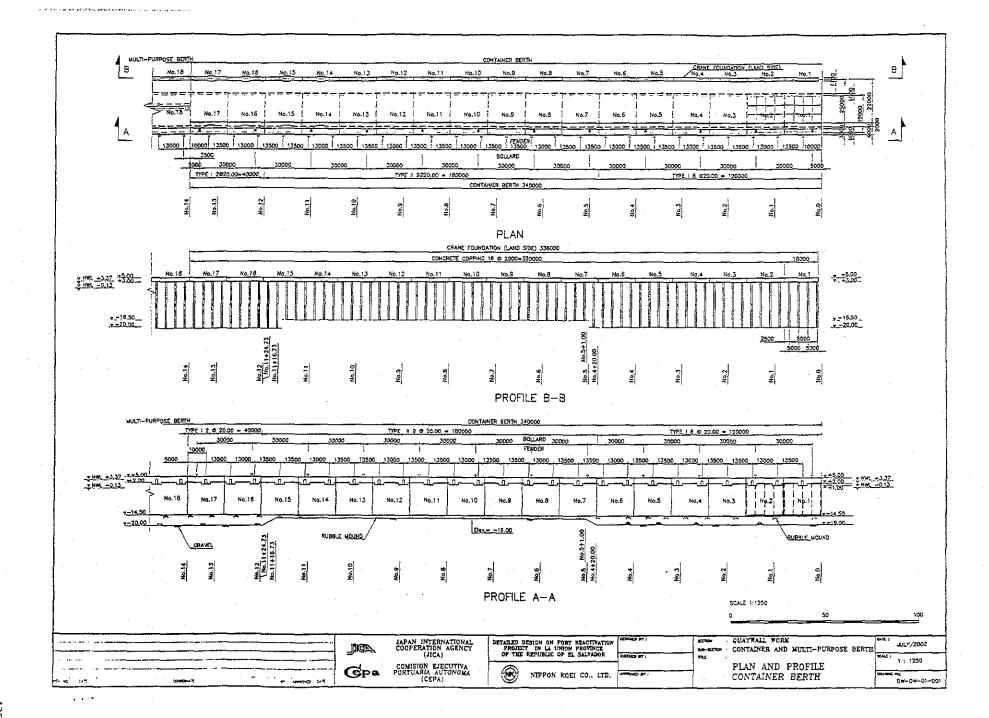
	QUANTITY CALCULATION COVER SHEET								
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001						
Work Section Title	Container Berth	Pay Item No. (BOQ)	2A-08						
Quantity Item	Official dusting	Unit	M₃ .						

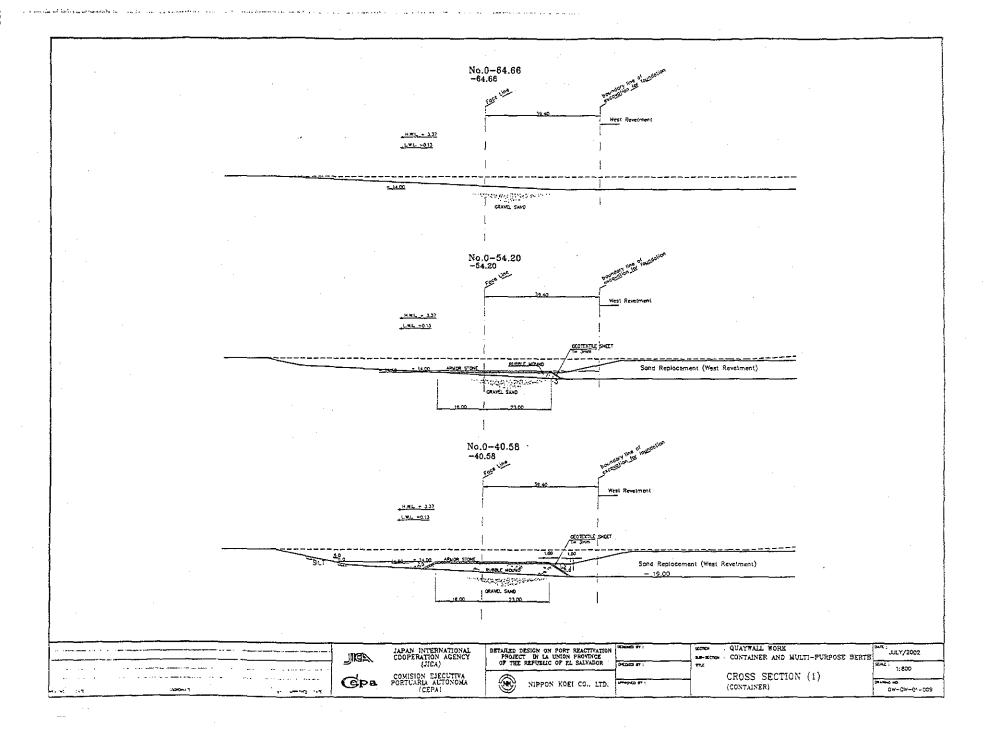
- 1 Calculation of Areas of Sections
- 2. Average of Areas of Sections
- 3 Calculation of Volume: Average of Averas of Sections (Excel)

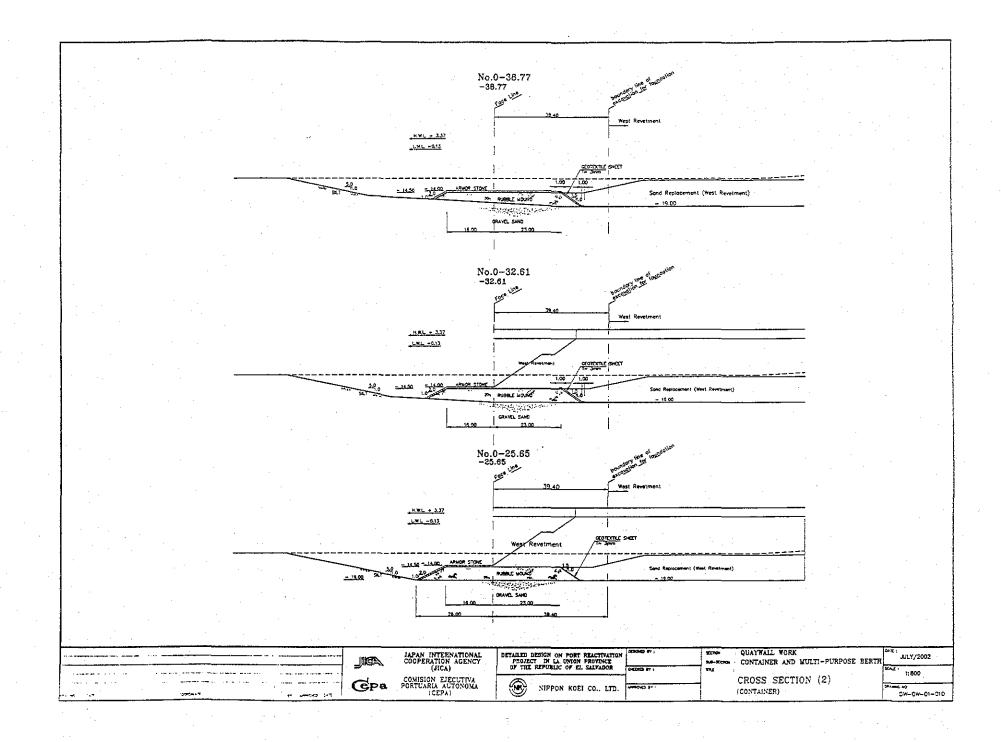
References. Calculation Base and Revisions

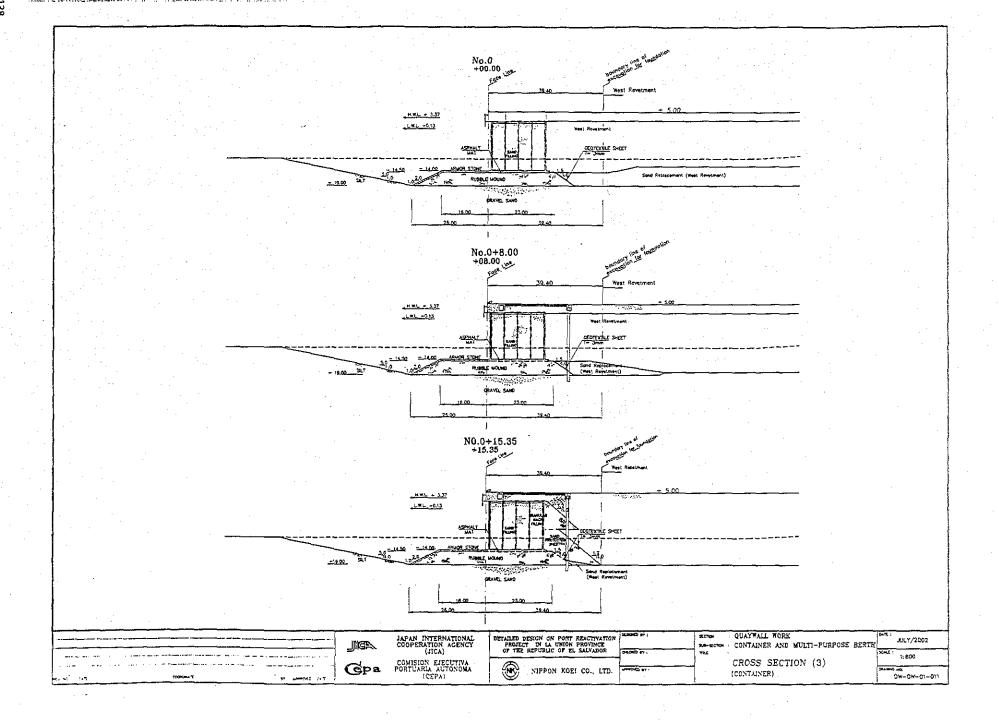
DW-6W-01-00/ DW-6W-01-009-018

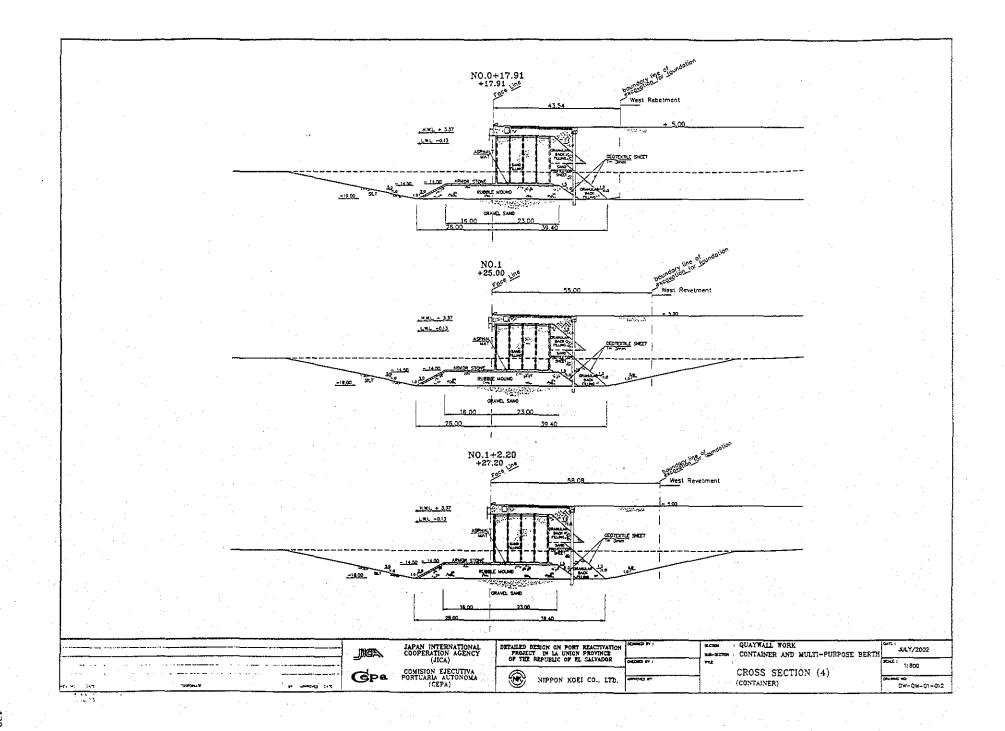
Rev	Prep	pared	No, of	Chec	ked	Revie	wed	Superseded
	by	Date	Pages	by	Date	by	Date	by Calc No.
0	Karlo G			Mr. Inuma		Mr. Ando		
1		:						
α		:						
3								

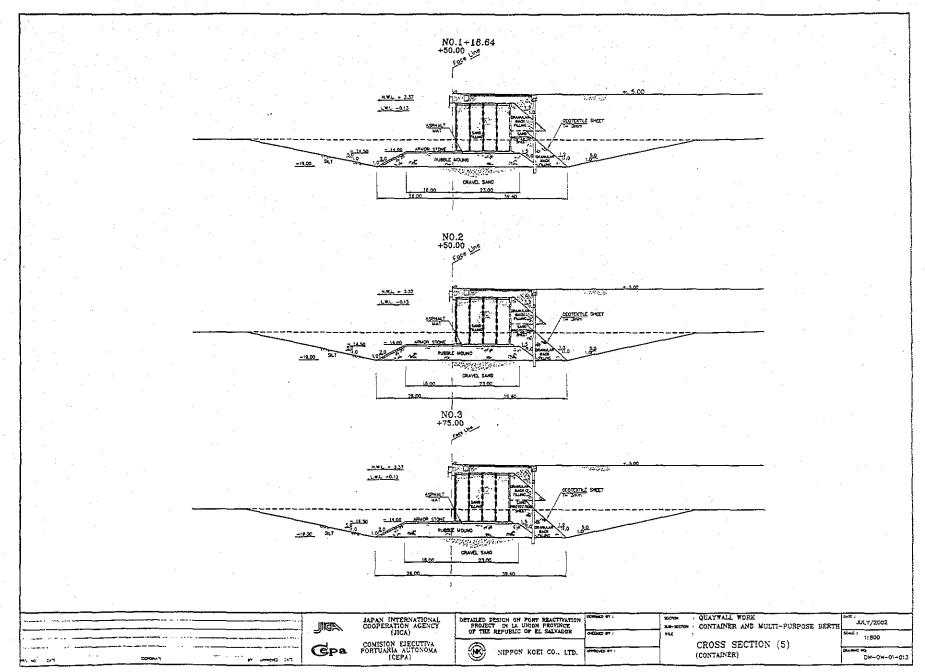


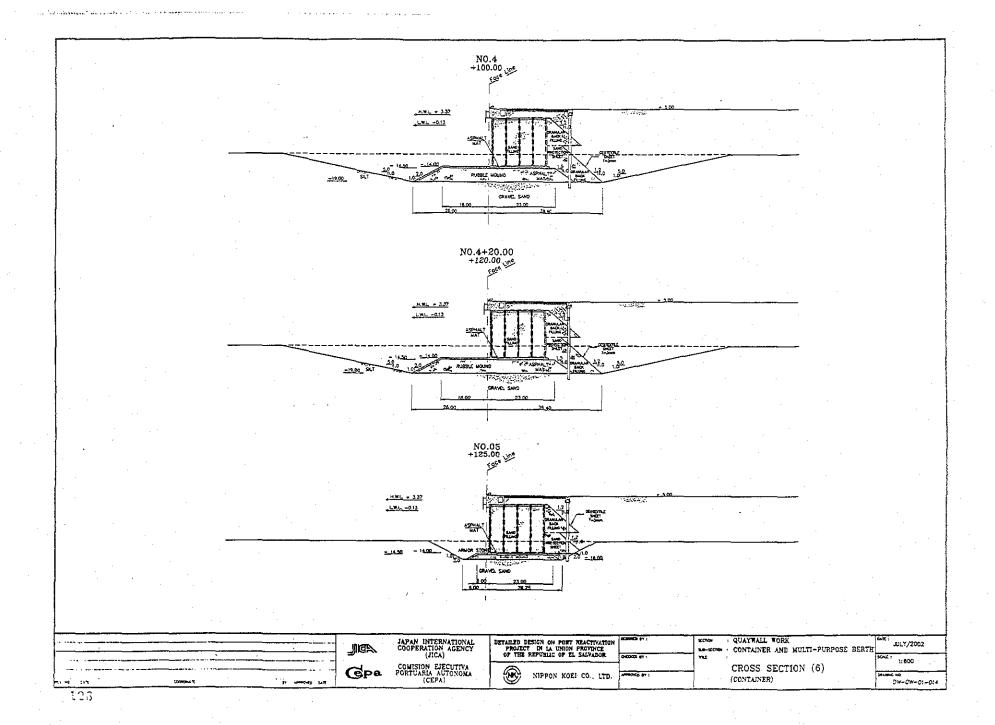


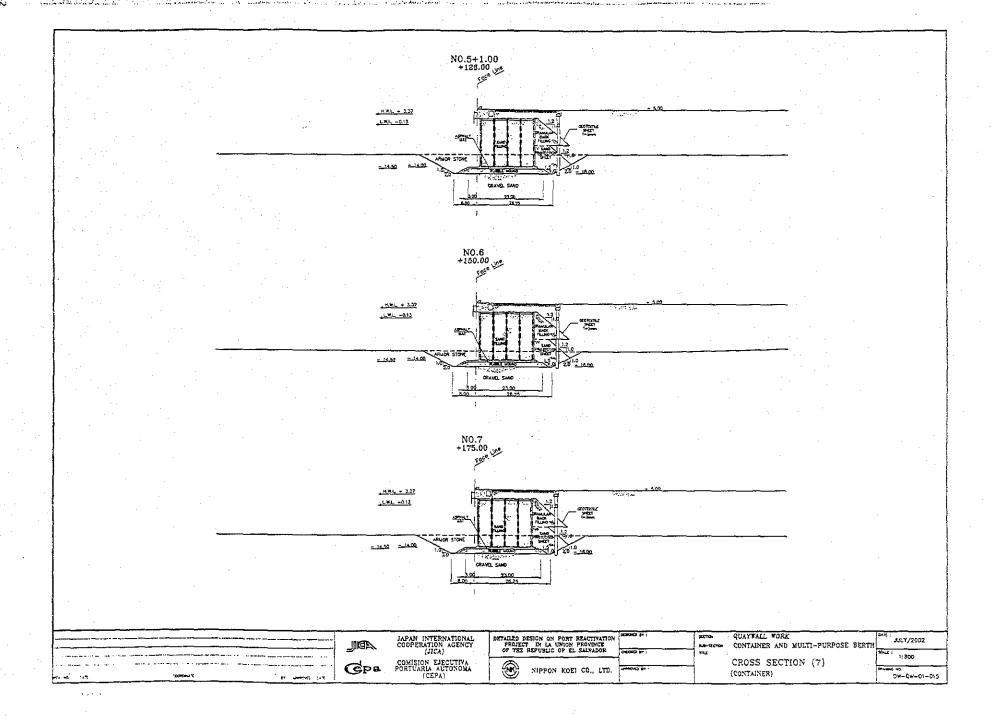


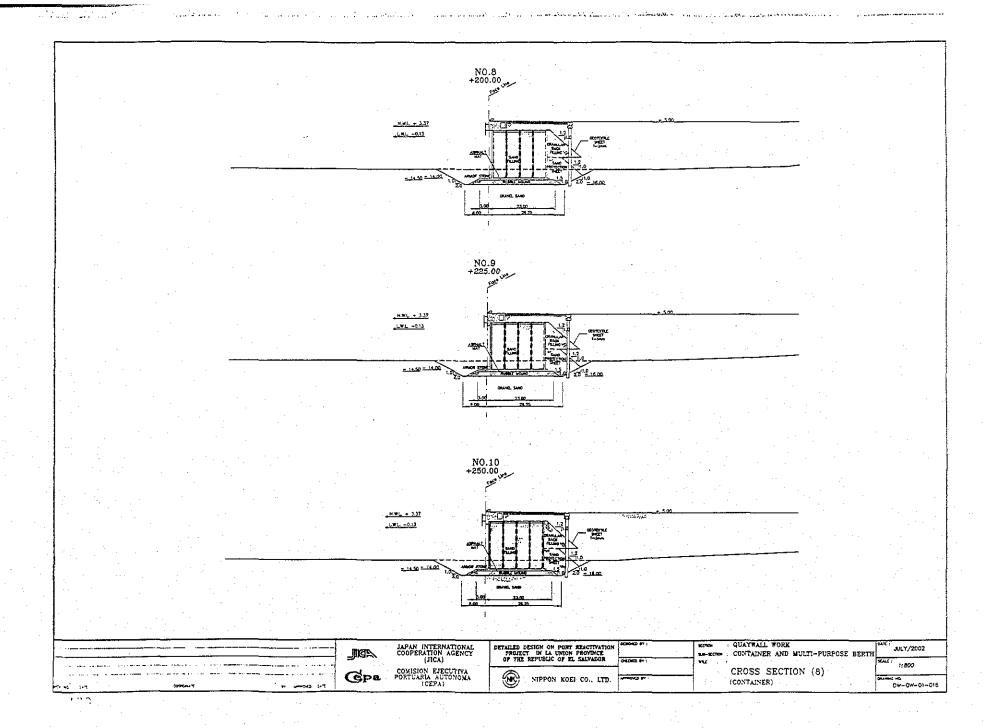


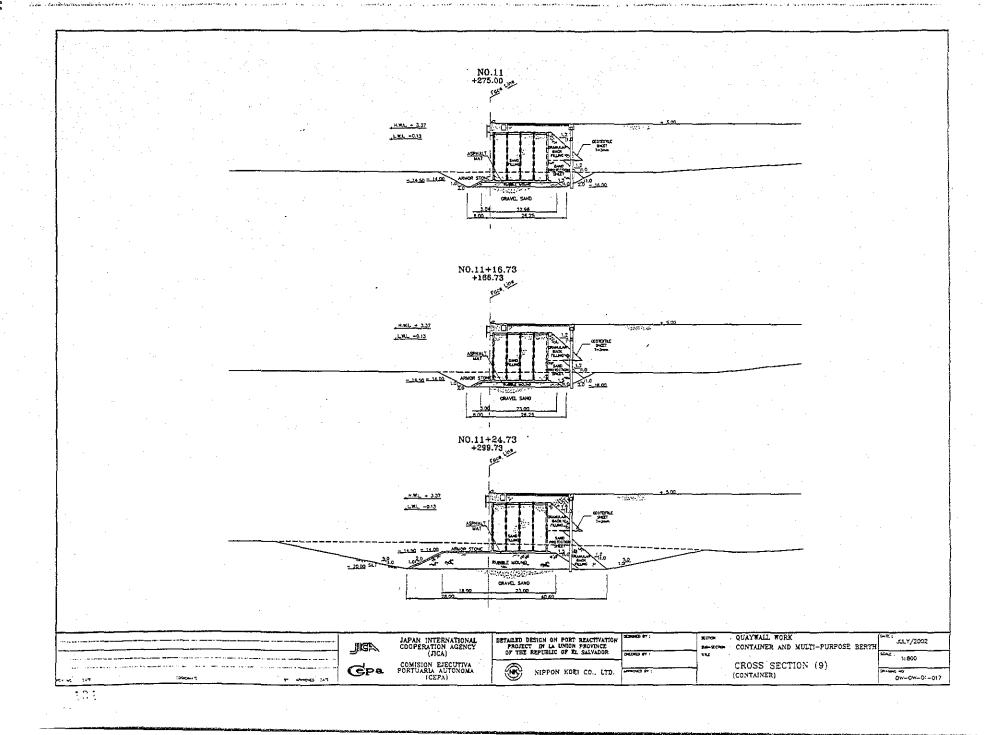


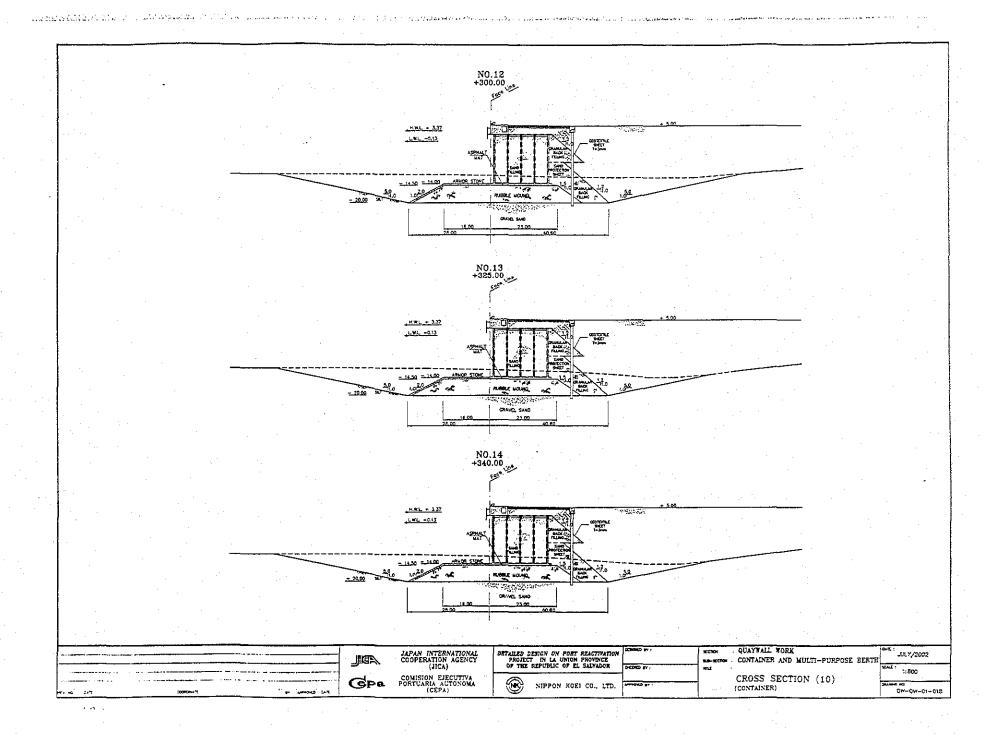


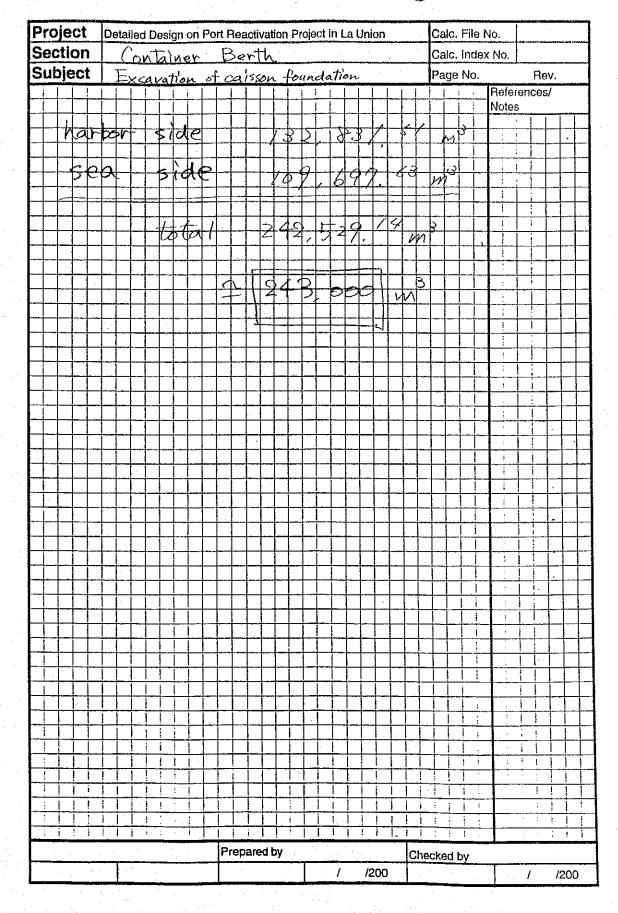












OContainer Berth

1. Excavation for Foundation (harbor side)

1. Excavation fo	or Foundation (h	iarbor side)		
Section No.	Area (m²)	Average Area of 2 Sections	Distance Between	Volume (m³)
		(m ²)	Sections (m)	
No.0-80.00	0.00			
140.0 00.00	0.00	73,41	15.34	1,126.11
No.0-64.66	146.82	, , , , , ,		1,120,11
		192.71	10.46	2,015.75
No.0-54.00	238.60			
No.0-40.58	221.70	285.15	13.62	3,883.74
110.0-40.00	331,70	336.31	1.81	608.72
No.0-38.77	340.92	000.01	1.01	008.72
		347.76	6.16	2,142.20
N0.0-32.61	354.60		_ :	
		343.15	6.96	2,388.32
No.0-25.65	354.60	251.00		
No.0	354.60	354.60	25.65	9,095.49
110.0	354.00	354.60	8.00	2,836.80
No.0+8.00	354.60	551.00	0.00	2,000.00
		354.60	7.35	2,606.31
No.0+15.35	354.60			-
		412.63	9.65	3,981.88
No1	470.66	150 05		200.00
No.1+2.20	487.83	479.25	2.20	1,054.34
140.112.20	401.03	522.47	16.44	8,589.32
No.1+18.64	557.10	022.41	10.44	0,000.02
		557.10	6.36	3,543.16
No.2	557.10			
		557.10	25,00	13,927.50
No.3	557.10	555.10		
No.4	557.10	557.10	25.00	13,927.50
110.4	337.10	557.10	20.00	11,142.00
No.4+20.00	557.10	001.10	20.00	11,142.00
		375.30	5.00	1,876.50
No.5	193.50			
N 5 1 00	4.00.22	193.50	1.00	193.50
No5+1.00	193.50	170.40	0.400	4 000 00
No.6	159.33	176.42	24.00	4,233.96
	100.00	176.42	25.00	4,410.38
No.7	193.50			3,710.00
		174.88	25.00	4,371.88
No.8	156.25			
No.9	156.25	156.25	25.00	3,906.25
110.5	100.20	156.25	25.00	3,906.25
No.10	156.25	100.20	20.00	3,300.25
		156.25	25.00	3,906.25
No.11	156.25			
AF-11-10-50		156. 2 5	16.73	2,614.06
No.11+16.73	156.25	00001		6
No.11+24.73	457.42	306.84	8.00	2,454.68
2.5.22.23.10	101,42	482.08	0.27	130.16
No.12	506.74	102.00	0.21	100.10
		466.21	25.00	11,655.13
No.13	425.67	<u> </u>		1-1 1-1
X1-1-1-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	420.23	15.00	6,303.38
No.14	414.78	<u> </u>		
Total		9,681.88	420.00	רבי נטט ניפן
	L	3,001.00	420.00	132,831.51

OContainer Berth

2. Excavation for Foundation (sea side)

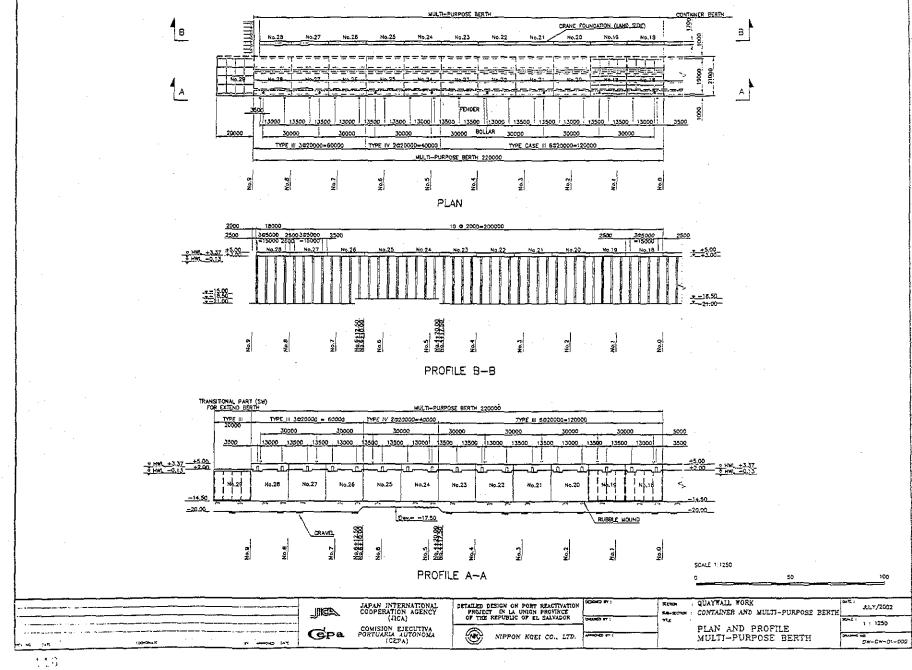
Section No.	or Foundation (s Area (m²)	Average Area of 2 Sections (m²)	Distance Between Sections (m)	Volume (m³)
No.0-80.00	0,00		· ·	
		53.23	15.34	816.47
No.0-64,66	106.45	170.00	10.40	1 0/75 00
No.0-54,20	251.73	179.09	10.46	1,873.28
	202113	301.32	13.62	4,103.98
No.0-40.58	350.91			
No.0-38,77	366.38	358.65	1.81	649.15
110.0-03.11	000.00	389.44	6.16	2,398.92
No.0-32.61	412.49			
No.0-25.65	436.50	424.50	6,96	2,954.49
110.0-25.65	430.00	436.50	25.65	11,196.23
No.0	436.50			
W 6:000	100 50	436.50	8.00	3,492.00
No.0+8.00	436.50	436.50	7.35	3,208.28
No.0+15.35	436.50	200.00	7,550	0,230.20
		436.50	9,65	4,212.23
No1	436.50	436.50	2.20	960.30
No.1+2.20	436.50	400.00	2.20	300.00
		436.50	16.44	7,176.06
No.1+18.64	436.50	490 50	6.00	0.000 3.4
No.2	436.50	436.50	6.36	2,776.14
110.2	105.50	436.50	25.00	10,912.50
No.3	436.50			
No.4	436.50	436.50	25.00	10,912.50
140.4	430.50	436.50	20.00	8,730.00
No.4+20.00	436.50			
ST- P	94.00	260.25	5.00	1,301.25
No.5	84.00	84,00	1.00	84.00
No5+1.00	84.00			
37 0	05.05	75,98	24,00	1,823.40
No.6	67.95	75,98	25.00	1,899.38
No.7	84.00			2,540.00
	0.5	74.59	25.00	1,864.75
No.8	65.18	65.15	25.00	1,628.63
No.9	65.11	00.10	20,00	1,020.00
		65.06	25.00	1,626.38
No.10	65.00	65.01	25.00	1,625.13
No.11	65.01	00.01	25.00	1,020.10
		65.05	16.73	1,088.29
No.11+16.73	65.09	260.77	8.00	2,086.12
No.11+24.73	456.44	200.11	0.00	2,000,12
		456.71	0.27	123.31
No.12	456.98	455.32	25.00	11 900 00
No.13	453.65	400,32	25.00	11,382.88
		452.78	15.00	6,791.63
No.14	451.90			
Total		8,527.82	420,00	109,697.63

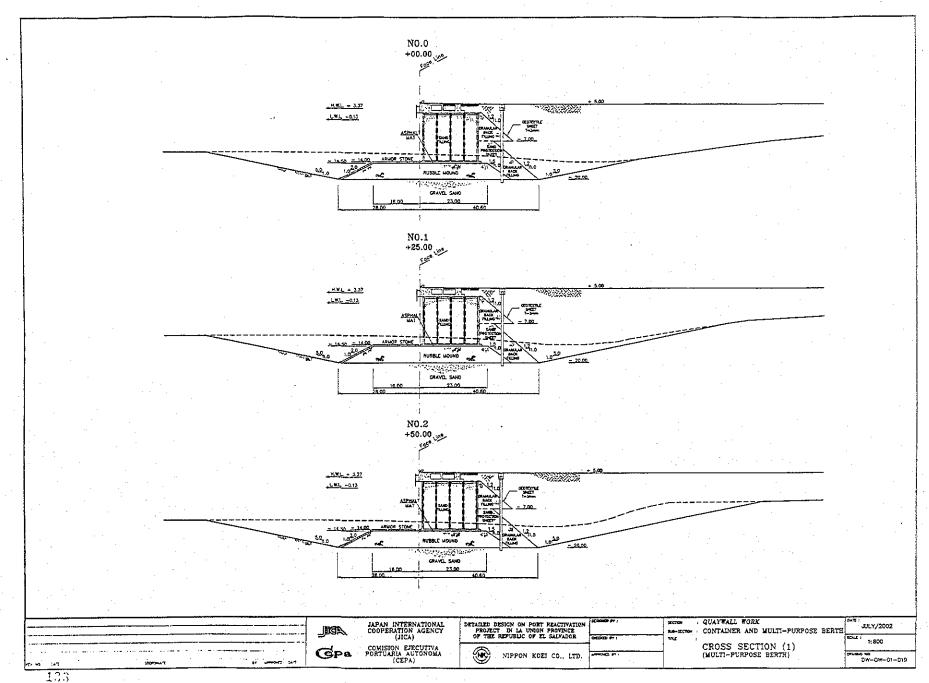
	QUANTITY CALCULATION COVER SHEET								
Project	Project Detailed Design on Port Reactivation Project Project Code JC1N004/2N001								
Work Section Title	Multi-Durrose Borth	Pay Item No. (BOQ)	24-09						
Quantity Item	Offshore dumping	Unit	M ₃						

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

References, Calculation Base and Revisions

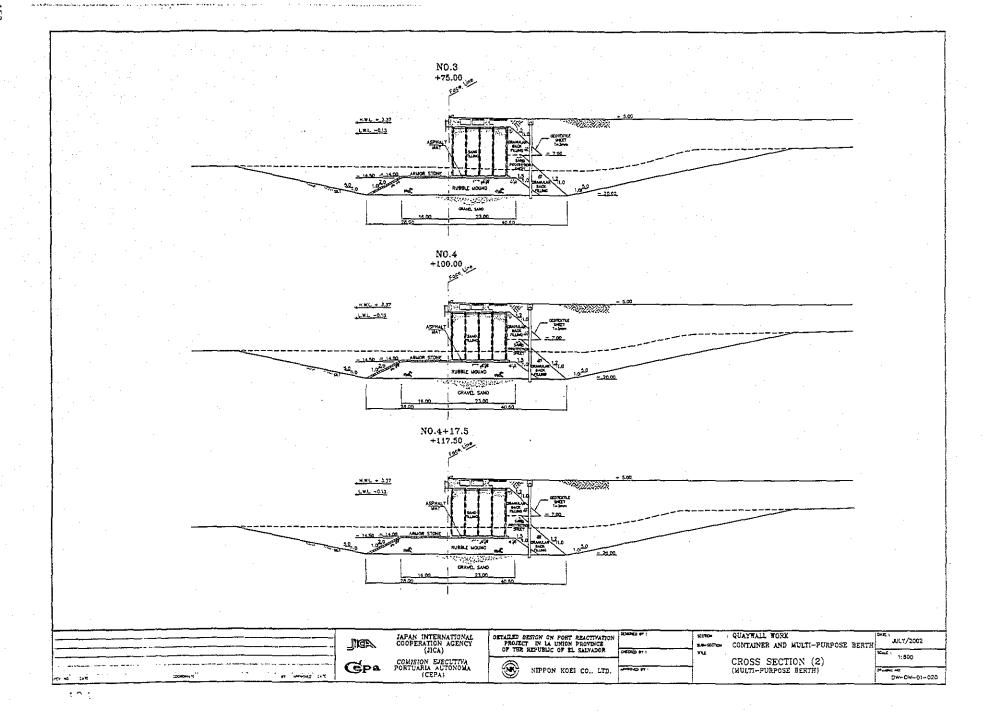
Rev	Prepa	ared	d No. of Checked		Revi	ewed	Superseded	
L	by ,	Date	Pages	by	Date	by	Date	by Calc No.
0	Kaila G.			Hr. Inuma		Mr. Ando.		
1					-			
2								
3							·	

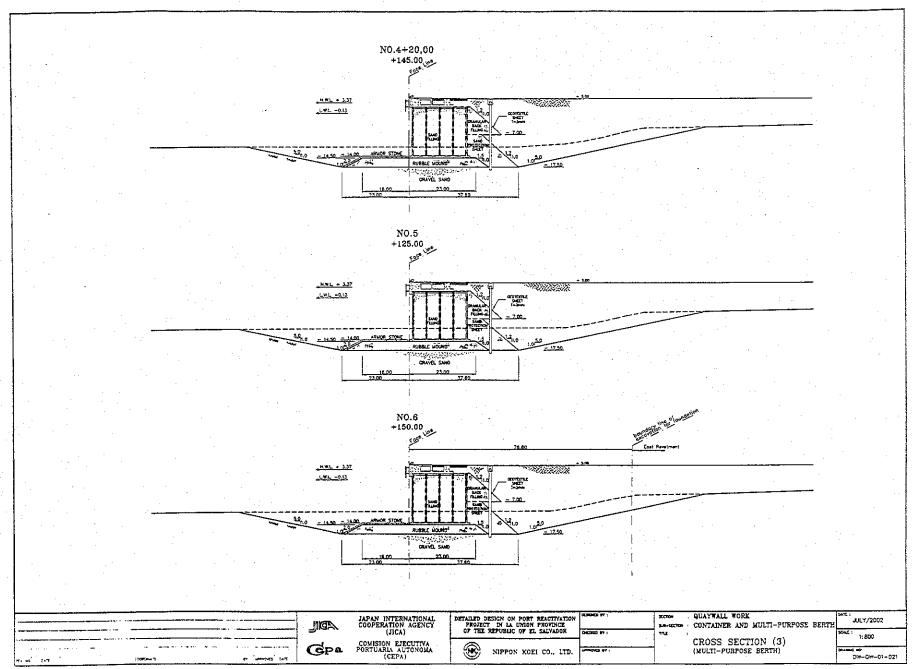


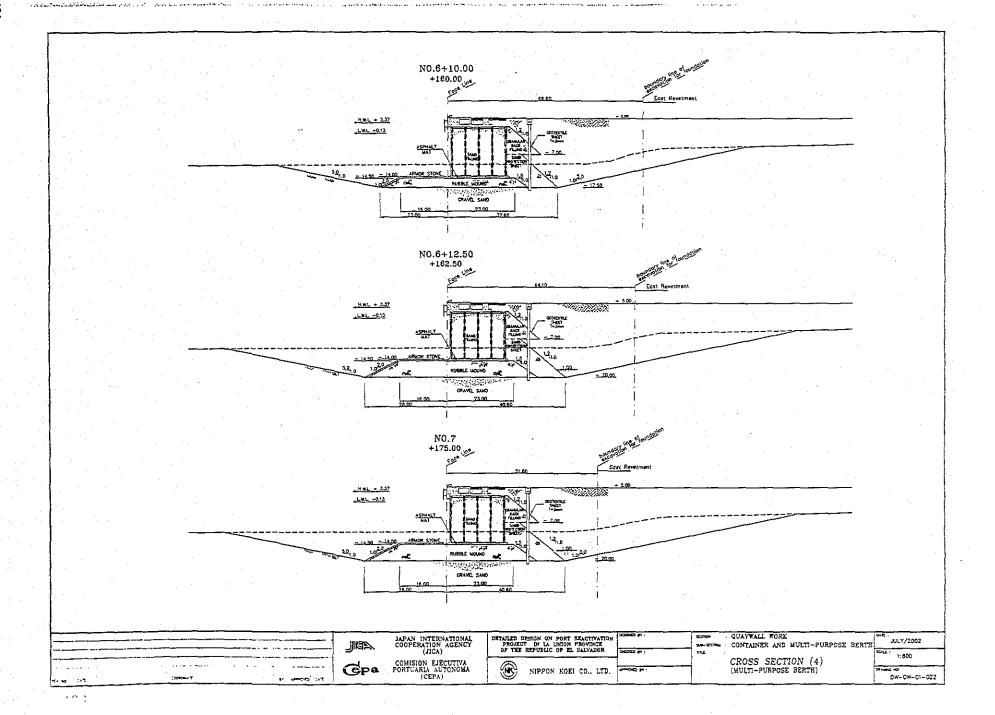


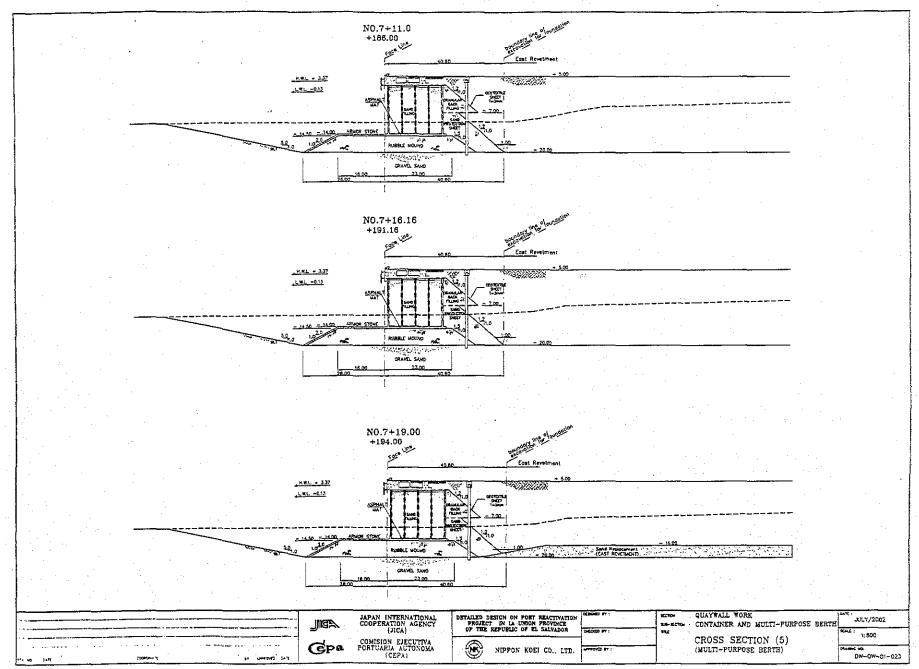
.

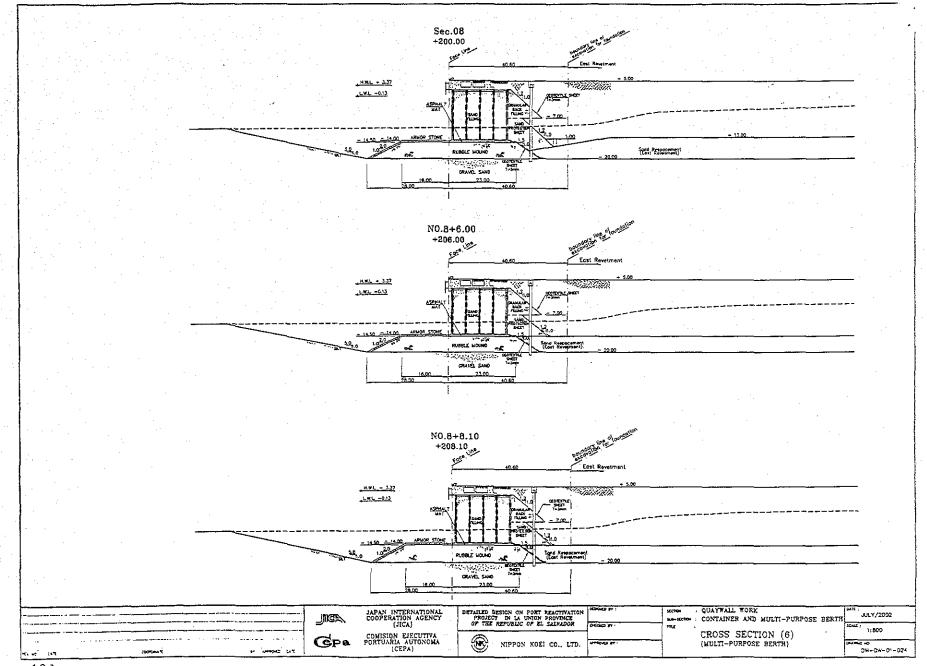
153

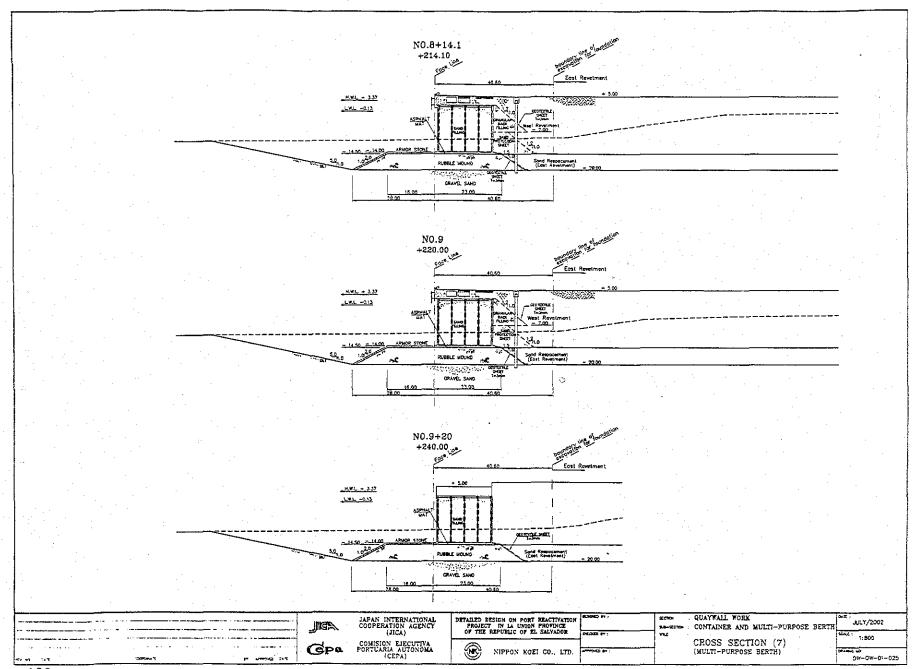


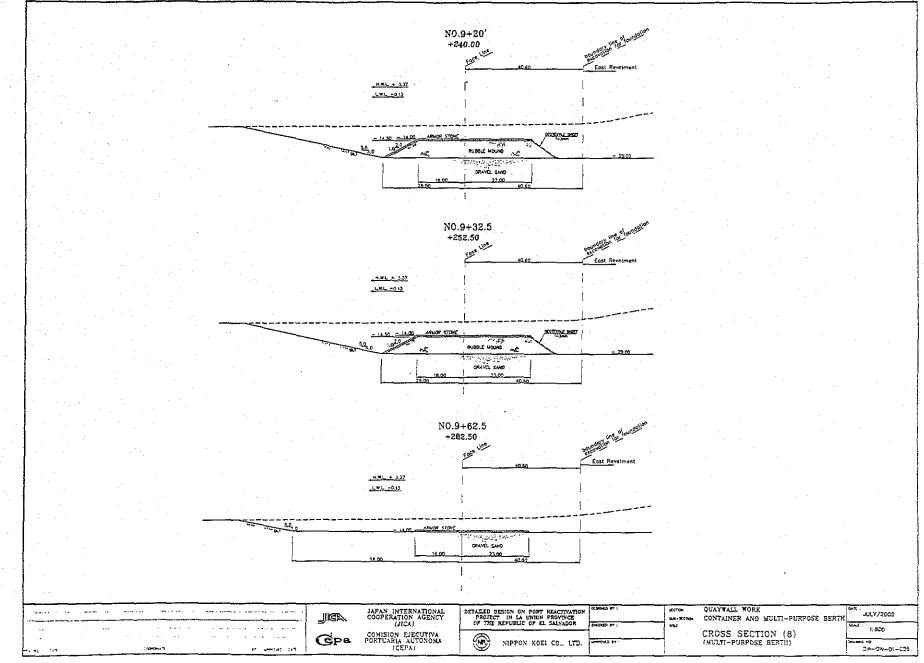






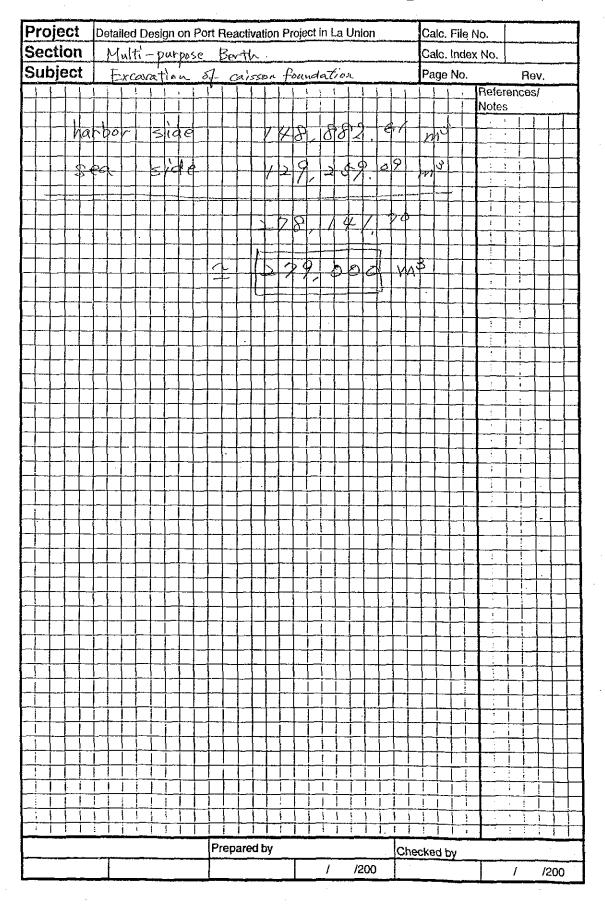






1 1

(I) NIPPON KOEI CO., LTD.



OMulti-Purpose Berth
1. Excavation for Foundation (harbor side)

	_	Average Area	Distance	
Section No.	Area (m²)	of 2 Sections	Between	Volume (m³)
		(m ²)	Sections (m)	
No.0	414.79			
No.1	440.29	427.54	25,00	10,688.50
170.1	440.29	552.20	25,00	13,805.00
No.2	664.11			
No.3	706.59	685.35	25.00	17,133.75
110.5	100.09	742.36	25.00	18,558.88
No.4	778.12			
No.4+17.50	797.34	787.73	17.50	13,785.28
140.4111.00	101.04	638.61	2,50	1,596.53
No.4+20.00	479.88			
No.5	520.30	500.09	5.00	2,500.45
110.0	020.00	502.05	25.00	12,551.25
No.6	483.80		15 27 272	
No.6+10.00	444.76	464.28	10.00	4,642.80
2.0.0	112.10	526.08	2.50	1,315.19
No.6+12.50	607.39	555.00		A 274 AA
No.7	507.87	557.63	12.50	6,970.38
		455.31	11.00	5,008.36
No.7+11.00	402.74	105.00		
No.7+16.16	407.37	405.06	5.16	2,090.08
		407.37	2.84	1,156.93
No.7+19.00	407.37	411.00		0.105.00
No.8	415.19	411.28	6.00	2,467.68
		421.89	6.00	2,531.31
No.8+6.00	428.58	428.58	0.10	000.00
No.8+8.10	428.58	420.00	2.10	900.02
		429.72	6.00	2,578.32
No.8+14.10	430.86	431.91	5.90	2,548.27
No.9	432.96	431.31	0.90	2,040.21
		434.69	20.00	8,693.80
No.9+20.00	436.42	436.42	0.00	0.00
No.9+20.00	436.42	400.42	0.00	5.00
N. 0.00		431.46	12.50	5,393.19
No.9+32.50	426.49	316.00	30.00	9,480.00
No.9+62.50	205.51	510.00	50.00	3,400.00
		102.76	24.20	2,486.67
No.9+86.70	0.00			
Total		11,496.34	306.70	148,882.61

OMulti-Purpose Berth

2. Excavation for Foundation (sea side)

G (1 N	2.	Average Area	Distance	
Section No.	Area (m²)	of 2 Sections	Between	Volume (m³)
<i></i>		(m ²)	Sections (m)	
No.0	451.90			
		453,70	25.00	11,342.50
No.1	455.50			
N. 0	450.00	456.08	25.00	11,402.00
No.2	456.66	458.19	25.00	11,454.75
No.3	459.72	400.10	20.00	11,404.10
		457.11	25.00	11,427.75
No.4	454.50			
No.4+17.50	454,50	454.50	17.50	7,953.75
10.4+17.50	494,90	354.82	2.50	887.04
No.4+20.00	255.13	004.02	2.00	007.04
		275.87	5.00	1,379.33
No.5	296.60			
No.6	296.27	296.44	25.00	7,410.88
110.0	250.21	296.24	10.00	2,962.35
No.6+10.00	296,20	200.2	10.00	2,002.00
		401.16	2.50	1,002.89
No.6+12.50	506.11	263.51	-0.50	0.000.00
No.7	507.31	506.71	12.50	6,333.88
110.7	507.51	507.23	11.00	5,579.53
No.7+11.00	507.15	00.1.20	22.00	
		508.39	5.16	2,623.29
No.7+16.16	509.63	500.00	8.81	1 1/5 65
No.7+19.00	509.63	509.63	2.84	1,447.35
1.0.1.10.00	000.00	515.24	6.00	3,091.41
No.8	520.84			1.
		520.84	6.00	3,125.04
No.8+6.00	520.84	F00.04	0.10	
No.8+8.10	520.84	520.84	2.10	1,093.76
10.070.10	020.04	522.11	6.00	3,132.66
No.8+14.10	523.38	322.11	0.00	3,132.00
	520.00	523.38	5.90	3,087.94
No.9	523.38		5.00	3,007.01
		528.75	20.00	10,575.00
No.9+20.00	534.12			
		534.12	0.00	0.00
No.9+20.00'	534.12			
		524.04	12.50	6,550.50
No.9+32.50	513.96	530.5-		
No OLCO FO	000.00	398.79	30.00	11,963.70
No.9+62.50	283.62	141.01	04.00	0.401.00
No.9+86.70	0.00	141.81	24.20	3,431.80
	0.00			
Total		10,665.96	306.70	129,259.09
		10,000.00	000.10	140,400.00

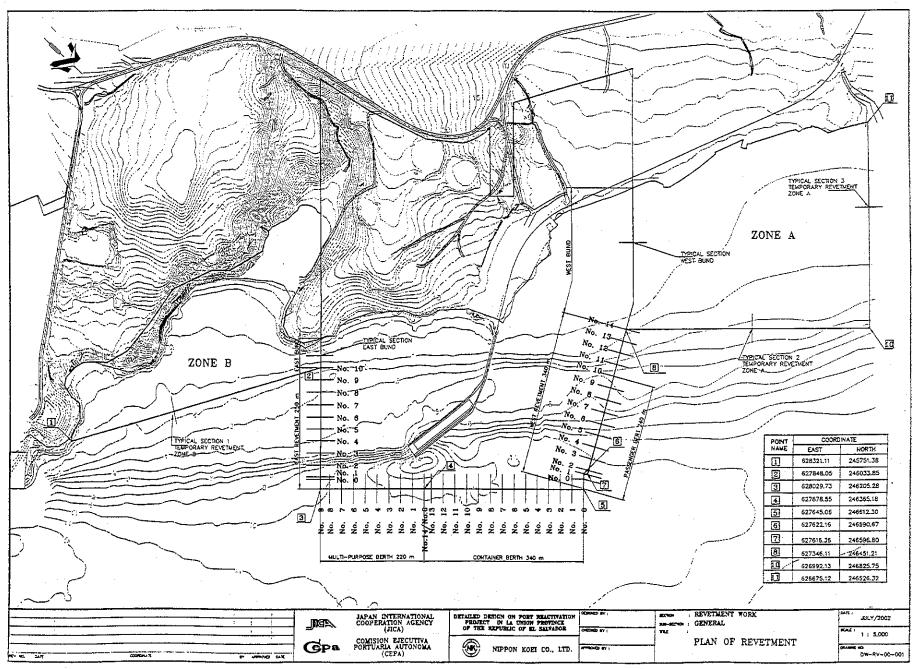
	QUANTITY CALCULATION COVER SHEET								
Project	Project Detailed Design on Port Reactivation Project In La Union Province Project Code JC1N004/2N001								
Work Section Title	West Revetment	Pay Item No. (BOQ)	2A-11						
Quantity Item	Offshore dumbing	Unit	м ³						

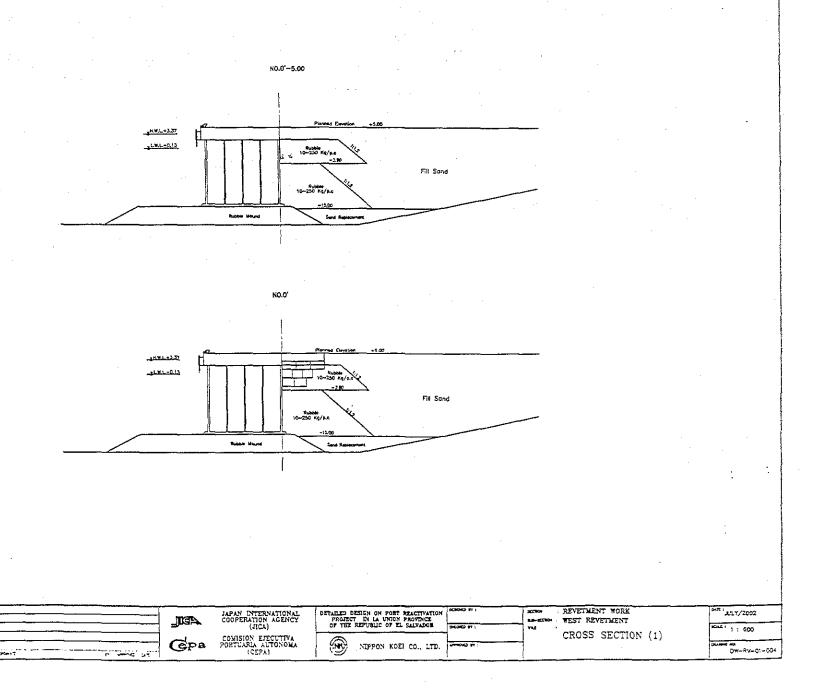
- 1 Calculation of Aveas of Sections (Excel)
- 2. Average of Areas of Sections (Excel)
- 3 Calculation of Volume: Average of Areas of Sections times distance between Sections (Excel)

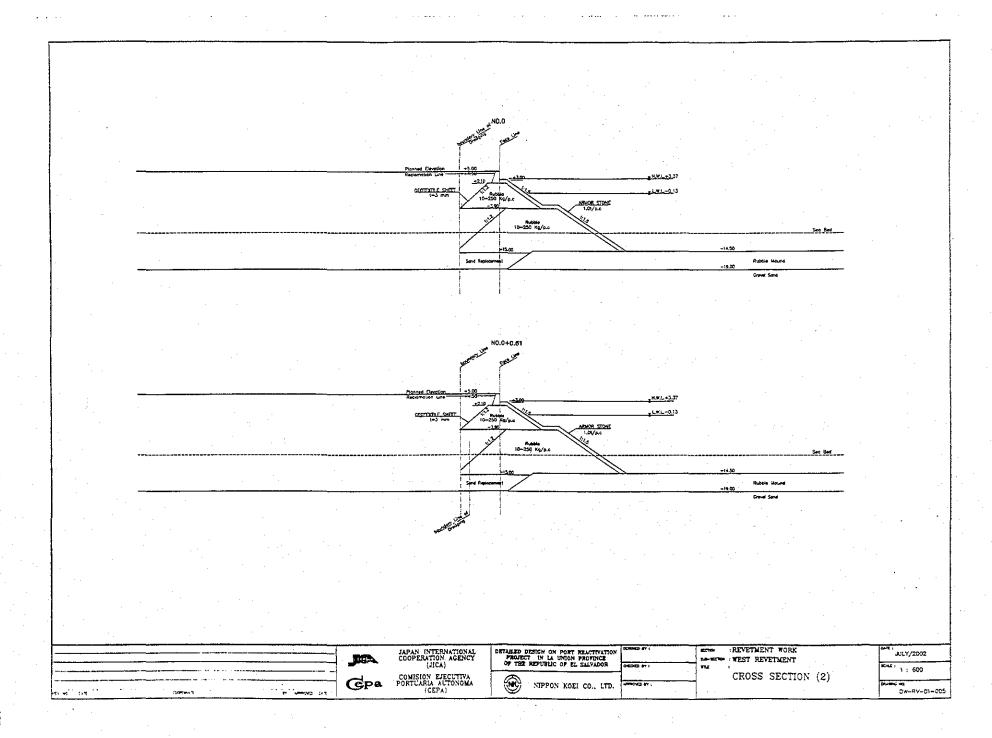
References, Calculation Base and Revisions

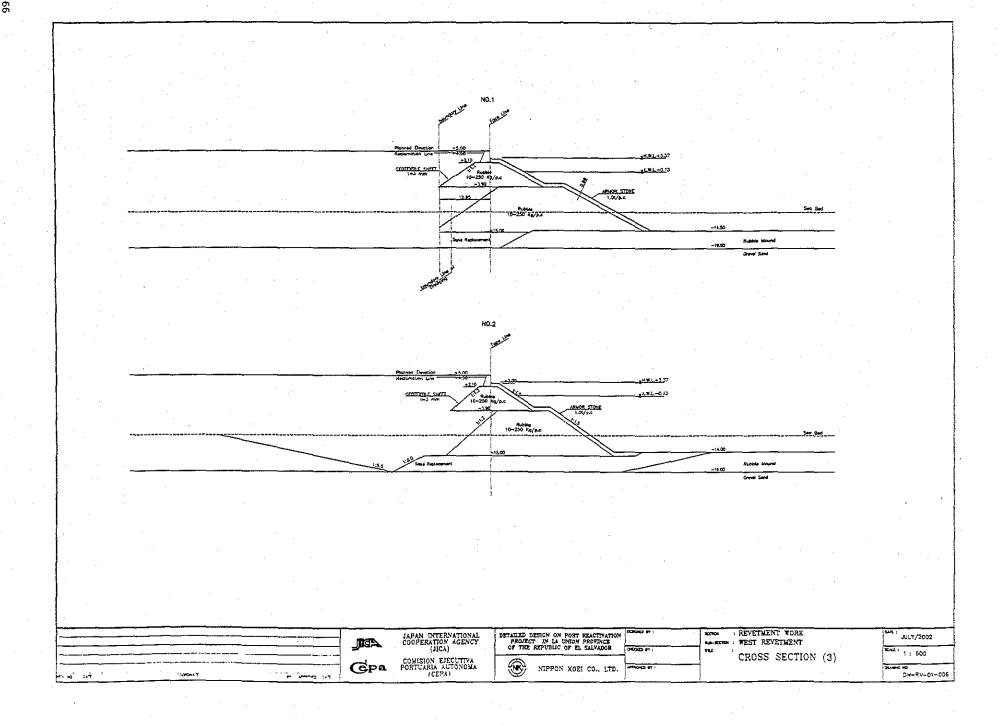
DW-RV-00-00/ DW-RV-01-004 ~ 023.

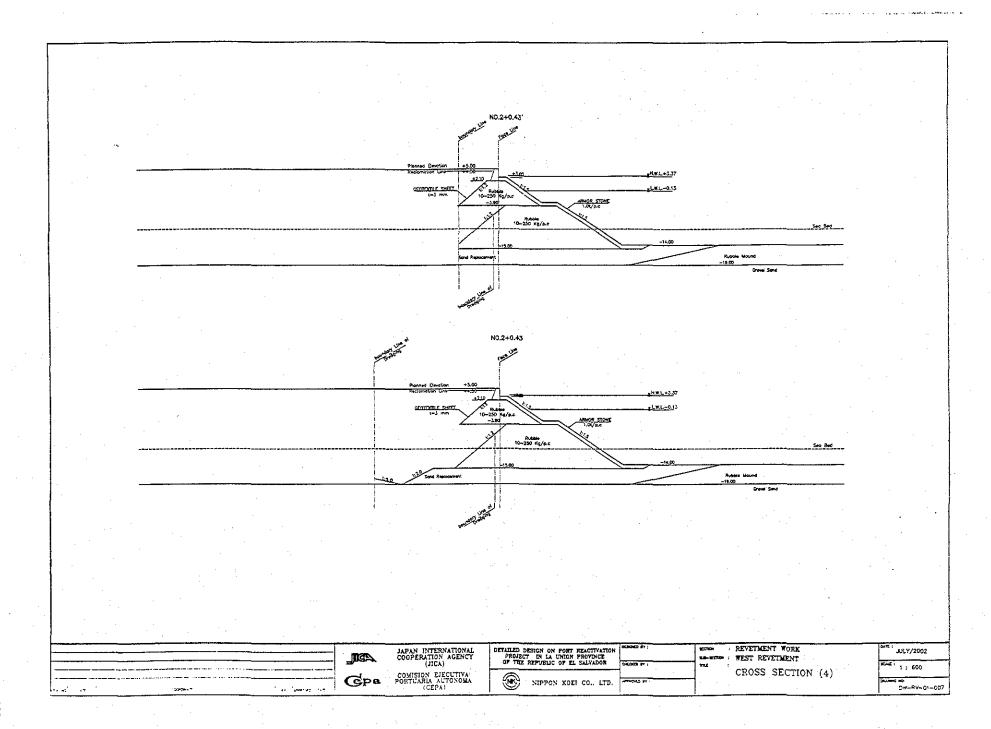
Rev	Prep	ared	No. of	lo. of Checked		Reviewed		Superseded
.,,,,	by :	Date	Pages	by	Date	by	Date	by Calc No.
0	Karla G. Jan			Hr. Tourna		Mr. Ando		
1						-		
2								
3								

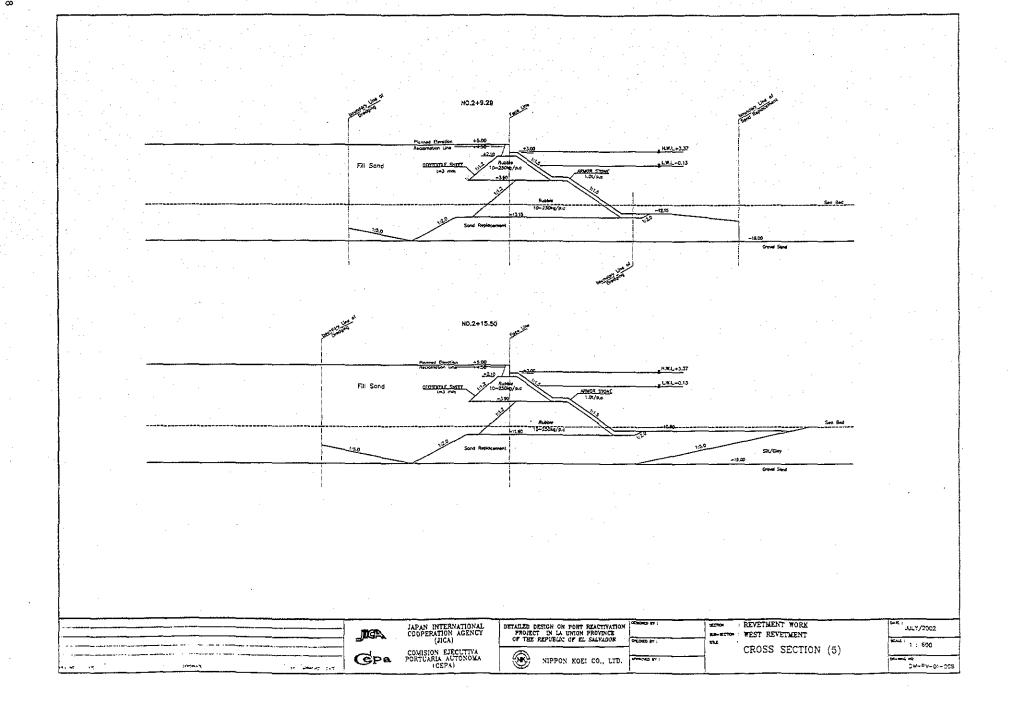


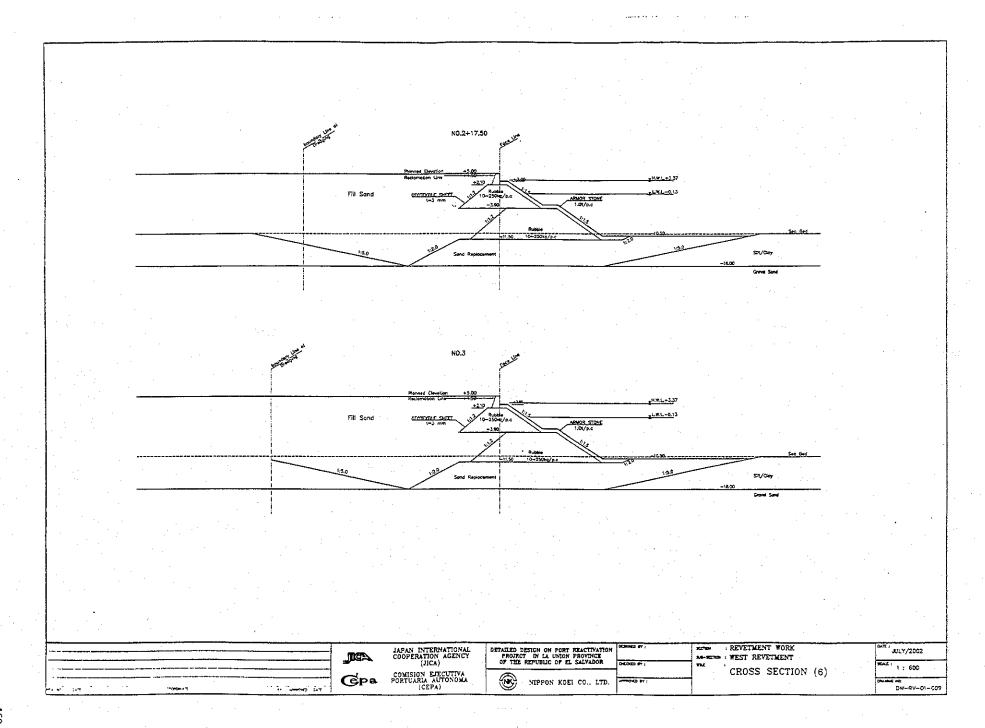


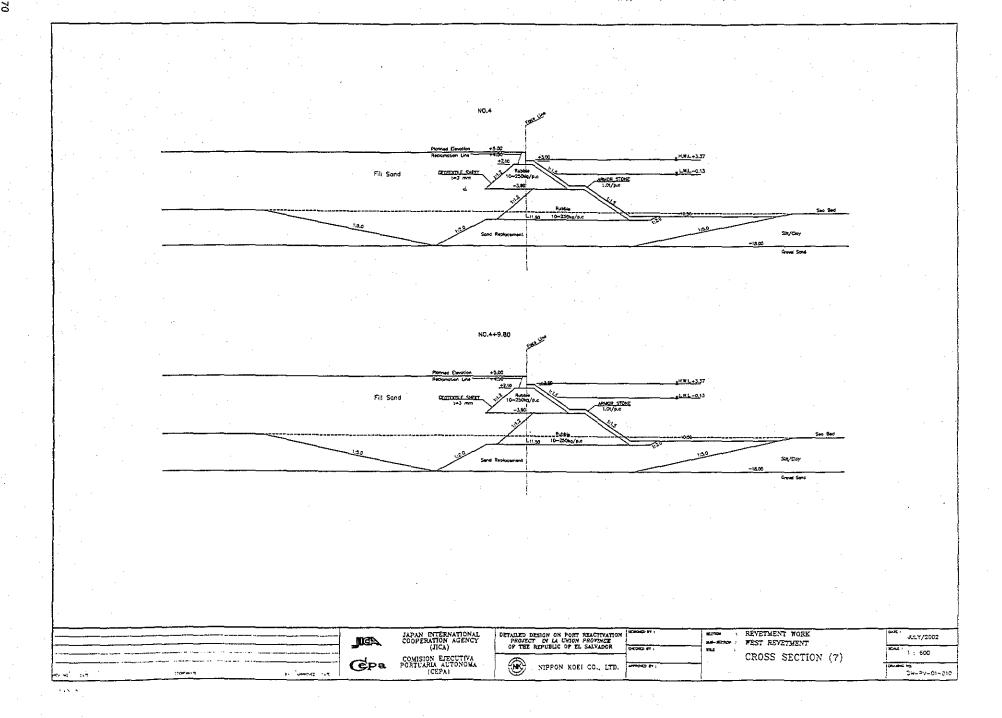


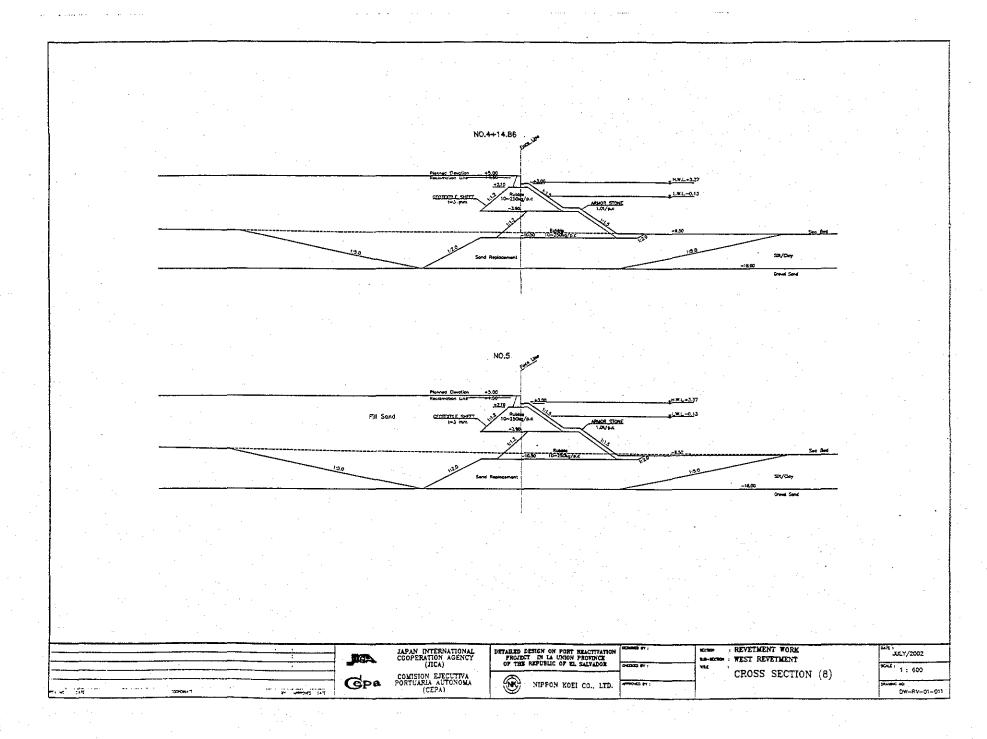


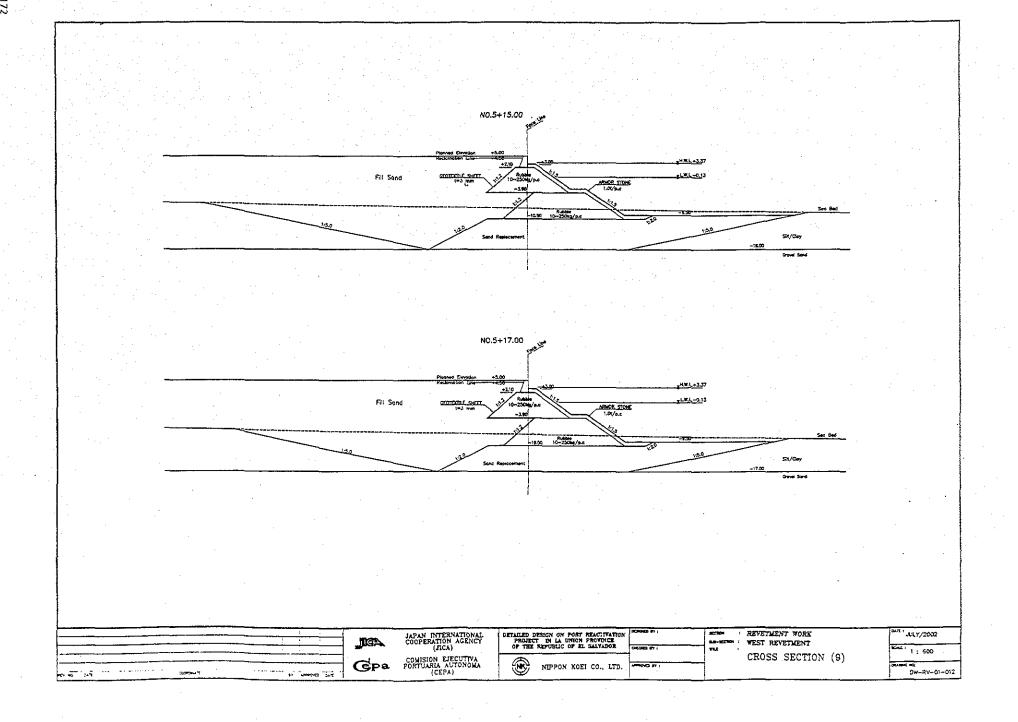


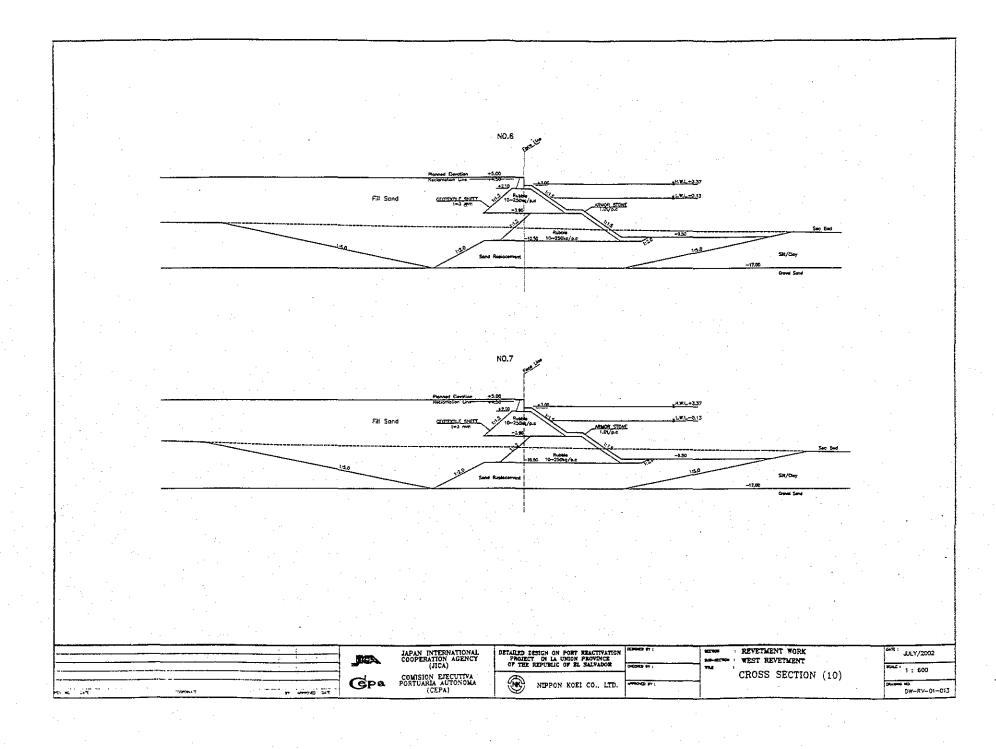


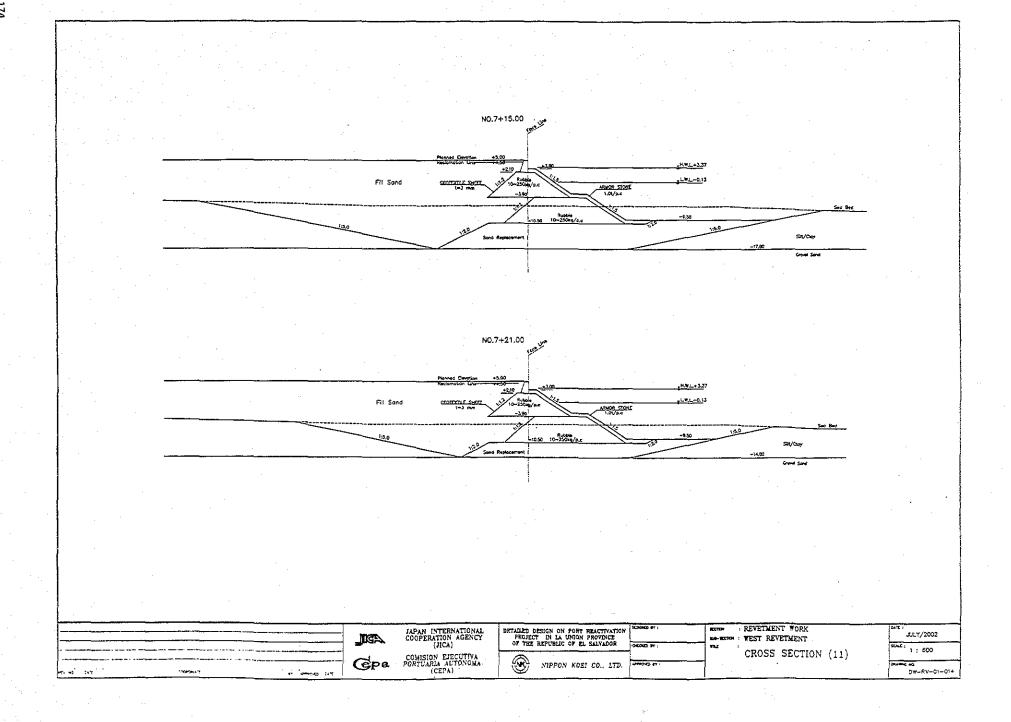


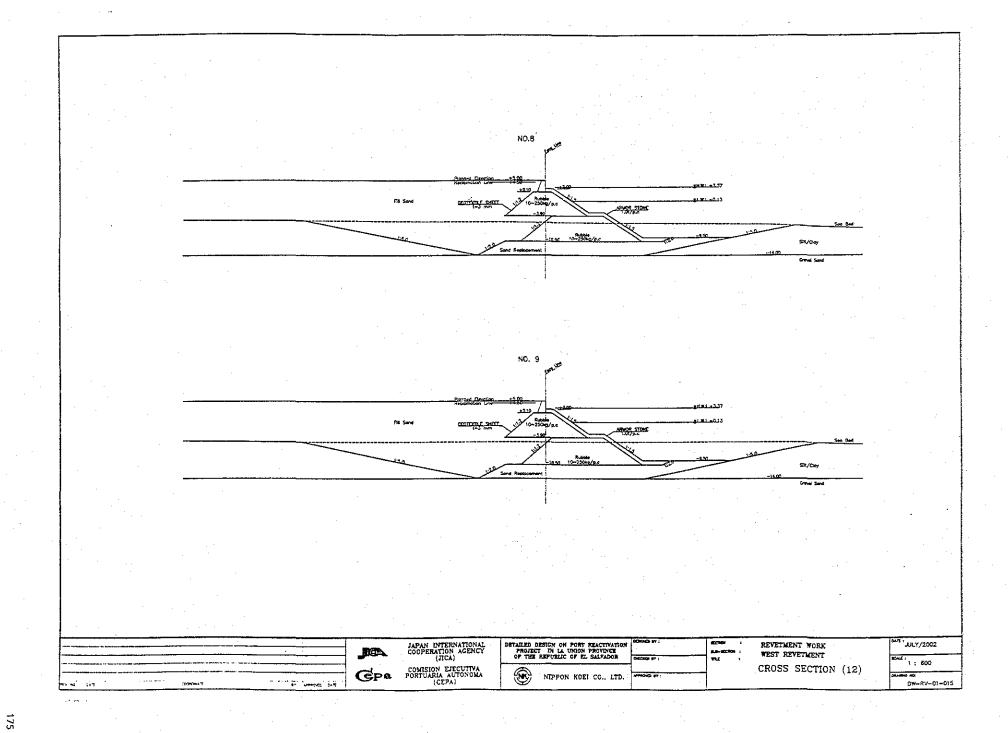


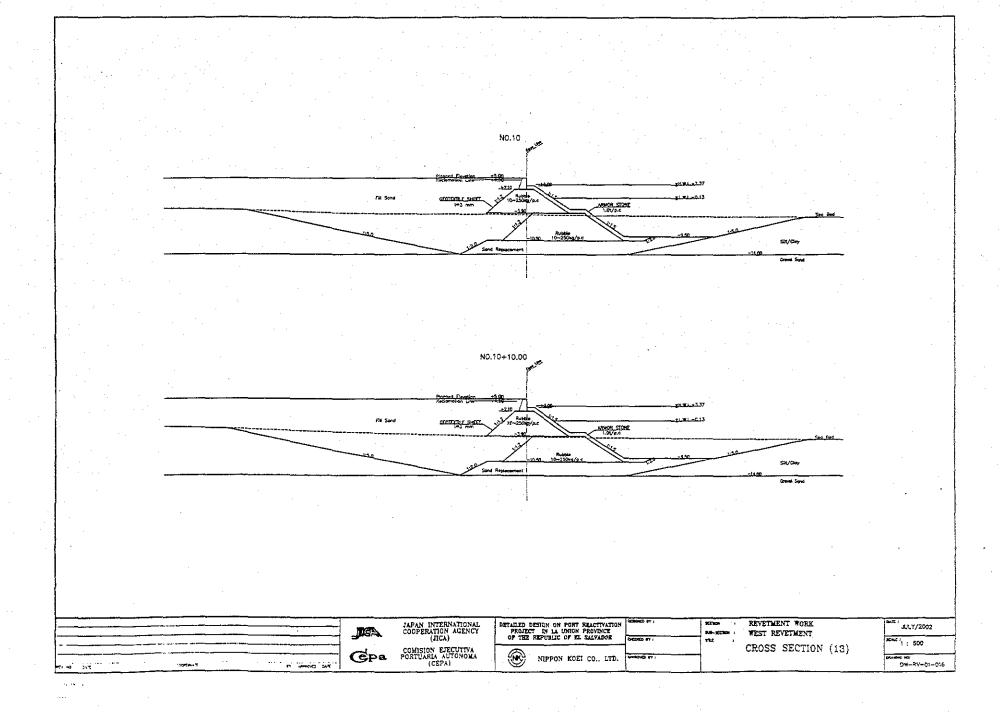


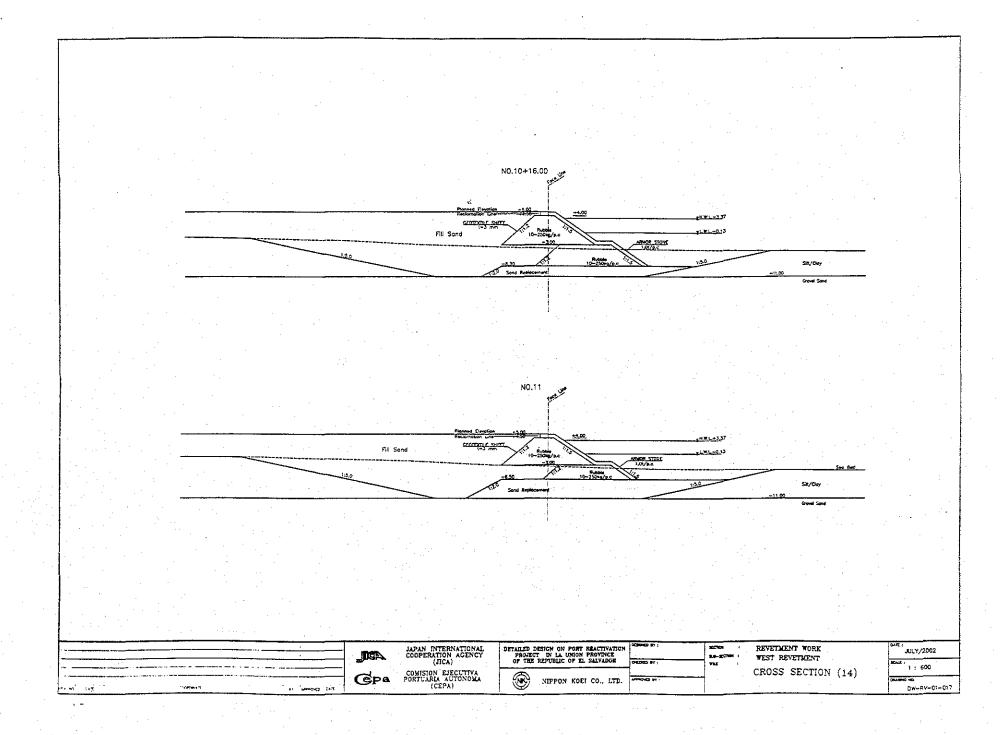












NO.11+12.50 K.W.L+3.37 Fill Send _LW.L-0.13 SIT/CON NO.11+17.80 K.W.L.+3.37 Fill Sand Sat/Clay Grove Sone JAPAN INTERNATIONAL COOPERATION AGENCY (IICA) DETAILED DESIGN ON PORT REACTIVATION PROJECT IN LA UNION PROVINCE OF THE REPUBLIC OF EL SALVADOR REVERMENT WORK JJLY/2002 WEST REVETMENT 1:600 COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)

NIPPON KOEI CO., LTD.

Gpa

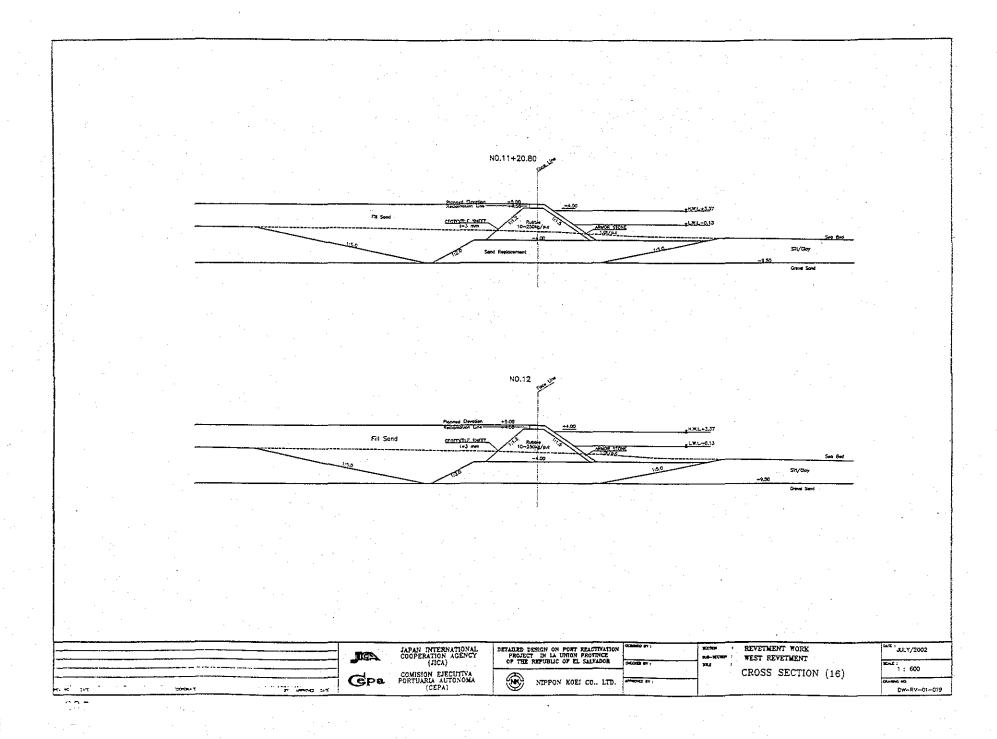
and choose as

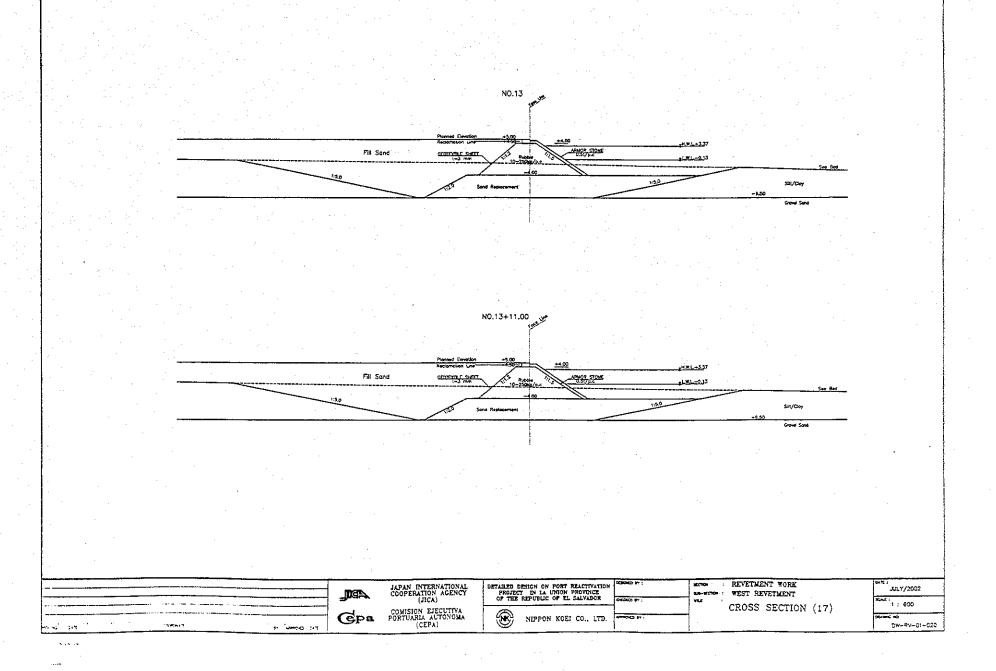
::Virgina Y

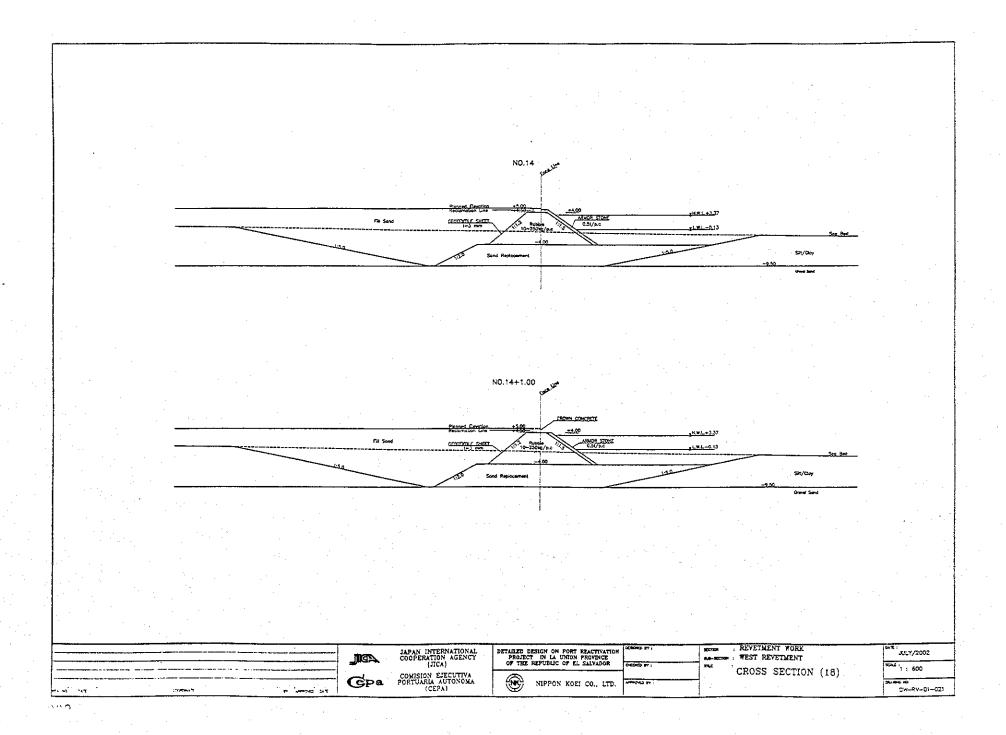
CROSS SECTION (15)

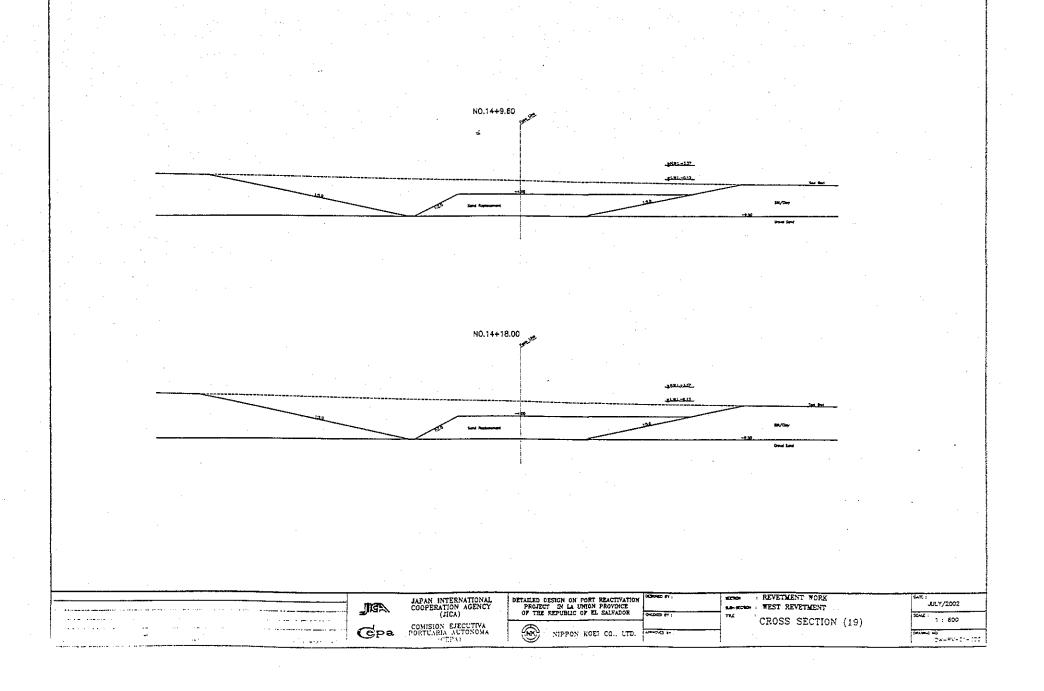
0w-RV-01-019

स्टर्भक्षे देशस









NO.14+45.50

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

. MPPON ROEL CO., LTD.

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

AEIL.

METON REVETMENT WORK

CROSS SECTION (20)

JULY/2002

1 : 500

1. Excavation for Section No.	Area (m²)	Average Area of 2 Sections (m²)	Distance Between Sections (m)	Volume (m³)
No.2-6.07	0.00			
		136,02	6.50	884.1
No.2+0.43	272.04			· · · · · · · · · · · · · · · · · · ·
No.0	22.14	21.78	0.61	13.2
No.0+0.61	21,42			
No.1	26.95	24,19	7.06	170.7
	100	53.48	7.06	377.5
No.2+0.43'	80.01	211,53	8.86	1,874.1
No.2+9,29	343.04			: :
No.2+15.50	379.35	361,20	6.21	2,243.0
N. 9117 FO		353,77	2.00	707.5
No.2+17.50	328,18	335.74	7.50	2,518.0
No.3	343.30	204.00		
No.4	385.90	364.60	25.00	9,115.0
No.4+9.80	389.22	387,56	9.80	3,798.0
190,4+9.80	369.22	408.67	5.06	2,067.8
No.4+14.86	428.11	444.05	10.14	4 °00 °C
No.5	459.98	444.05	10.14	4,502.6
No.5+15.00	561.74	510.86	15.00	7,662.9
10.01+6.00	561,74	511.54	2.00	1,023.0
No.5+17.00	461.34	477.73	0.00	<u> </u>
No.6	494.11	411.13	8.00	3,821.8
No.7	541.95	518.03	25.00	12,950.7
<u> </u>		560.05	15.00	8,400.6
No.7+15.00	578.14	439.90	6,00	2,639.3
No.7+21.00	301.65		0.00	
No.8	335.31	318.48	4.00	1,273.9
		346.31	25.00	8,657.6
No.9	357.30	391.06	25.00	9,776.5
No.10	424.82	1.34.1		
No.10+10.00	474.99	449.91	10.00	4,499.0
		441.47	6.00	2,648.7
No.10+16.00	407.94	430.69	9.00	3,876.1
No.11	453.43			
No.11+12.50	506.32	479.88	12.50	5,998.4
The following		512.35	5.30	2,715.4
No.11+17.80	518.37	463.77	- 3.00	1,391.3
No.11+20.80	409.17			
No.12	415.38	412.28	4.20	1,731.5
No.13	445.28	430.33	25.00	10,758.2
140.19		445.78	25.00	11,144.5
No.13+11.00	446.28			
No.14	480.79	463.54	26.00	12,051.9
		480.79	1.00	480.7

Section No.	Area (m²)	Average Area of 2 Sections (m²)	Distance Between Sections (m)	Volume (m³)
No.14+1.00	480.79			
		491.77	8.60	4,229,22
No.14+9.60	502.75			
	-	517.02	8.40	4,342.97
No.14+18.00	531.29			
		406.18	27.50	11,169.95
No.14+45.50	281.07		The same of the sa	
		140.54	19.75	2,975.57
No.14+65.25	0.00			
Total			412.05	164,292.50

98,486, 67

2. Excavation for Foundation (sea side)

Section No.	Area (m²)	Average Area of 2 Sections	Distance Between	Volume (m³)
		(m ²)	Sections (m)	Yorume (m.)
NI. 010 40	0.00			<u> </u>
No.2+0.43	0.00	191,75	9 00	1,698.9
No.2+9.29	383.50	191,70	8.86	1,098.9.
1,0,2 : 0,1-0	,	434.75	6,21	2,699.80
No.2+15.50	486.00			
		429.00	2.00	858.00
No.2+17.50	372,00	070.00	5.50	0.500.00
No.3	372.00	372.00	7.50	2,790.00
140.0	612.00	383.20	25.00	9,579.88
No.4	394.39		29.00	2,3,0,0,0
		396.61	9.80	3,886.78
No.4+9.80	398.83	000.05		
No.4+14.86	398.91	398.87	5.06	2,018.28
110.4*14.00	490.91	407.98	10.14	4,136.92
No.5	417.05	.,,,,,,,		2,200.0.
		448.25	15.00	6,723.76
No.5+15.00	479.45			
No. 5 1 17 00	410.56	445.01	2.00	890.0
No.5+17.00	410.56	420.78	8.00	3,366.2
No.6	431.00	420.70	3.00	3,300.2
		462.53	25.00	11,563.25
No.7	494.06			
N. 5:15:00	501.00	527.98	15.00	7,919.70
No.7+15.00	561.90	459.04	6.00	2,754.2
No.7+21.00	356.17	400.04	6.00	2,704.2.
		362.99	4.00	1,451.9
No.8	369.80			
N 0	405.10	398.50	25.00	9,962.38
No.9	427.19	442.57	25.00	11.004.11
No.10	457.94	444.07	25.00	11,064.13
	33710	464.32	10.00	4,643.20
No.10+10.00	470.70			
77 10 10 00	200 10	374.44	6.00	2,246.64
No.10+16.00	278.18	286.94	9.00	2,582.40
No.11	295.70	200.34	3.00	2,002.40
		310.25	12.50	3,878.00
No.11+12.50	324.79		-	
N. 11.17.00	0.40.05	334.37	5.30	1,772.10
No.11+17.80	343.95	281.98	3.00	.845.94
No.11+20.80	220.01	201.30	3.00	
		225.91	4.20	948.85
No.12	231.81			
N- 10		256.60	25.00	6,415.00
No.13	-281.39	287.07	11.00	· 9 150 0
No.13+11.00	292.75	201.01	11.00	3,157.7
	202.10	298.81	14.00	4,183.2
No.14	304.86			
		304.86	1.00	304.8

J

Section No.	Area (m²)	Average Area of 2 Sections (m²)	Distance Between Sections (m)	Volume (m³)			
No.14+1.00	304.86						
		309.30	8.60	2,659.94			
No.14+9.60	313.73						
		318.63	8.40	2,676.45			
No.14+18.00	323.52						
		258-19	27.50	7,100.23			
No.14+45.50	192.86						
		96.43	19.75	1,904.49			
No:14+65,25	0.00						
Total			364.82	_128,683.44			

,04,216,47

Harbor

2. Excavation for	r Foundation (s	ea sido)		
Section No.	Area (m²)	Average Area of 2 Sections	Distance Between	Volume (m³)
J		(m ²)	Sections (m)	·
	1.0.27			
No.11 +17.8	5-18,37	463.77	2,0	927.5
No.11+20.8	409.17	25 A 10 A	4.4	
No.13 +15,0	446,28	427, 23	44,2	18.906
No.15	285	365.6K	32.0	13.787
		۶۵۲	13.0	3705
No.15+130	7 87 _c	ک,در 3	30.0	9.325
No. 16 +180	340		<u></u>	
No.18+150	D	170	420	2.990
740./ 0 1./01				
				
				A) 0
Total				53, 201
]				
	*			
	1000			

OWest Revetment

1. Excavation for Foundation (harber side) Average Area Distance of 2 Sections Section No. Area (m²) Between Volume (m³) Sections (m) (m²)No. 11+17.8 344 542.5 2,0 108 No.11+20.8 741 665.5 44.2 19,415 No. 13+150 590 668.5 35,0 23,397 747 954 13.0 12,402 1161 1161 30,0 34.830 1161 No 16 +18.0 5.80,5 47.0 27,283 No. 18 + 150 0 Total 128,4/2

(I) NIPPON KOEI CO.,LTD.

			ct			_			esi		_	_	_				ior	P	roje	ect	in	a	Un	on				Ç	alc.	Fi	le i	Vo.						_
_		-	or		Ĺ	Λ]0	st.	- 	R	eu	et	m	eи	文					_								Cŧ	alc.	In	de	κN	6.					_
Sı	ıŁ	οje)C	t	Γ				ua			_					5	8 2	7		*****	-	*****			-		Ρŧ	ige	N	0.				Re	3V.		_
]]_		İ.				} -	i i		1	}	İ		Ī	1	_		i	;		į	į	ļ	i	ļ ļ	j	1		Re	efer					-
1			<u> </u>								<u> </u>		L		Ţ				L												i		otes					
+	-		_	ļ	<u> </u> _	<u> </u>		Ļ	1	╄-	ļ_	ļ	L	<u> </u>		<u> </u>	ļ	ļ	ļ	ļ.,	Ļ_	Ļ_	L	28	<u>}</u>	4	Pe	<u> </u>	187	[_	1							Į
+	_		E	$\frac{1}{x}$		77	a	*	bu	L	4	h	1 T	1/2	ļ,	Ļ	10	4-) -	-	-			_	1	5	9	0	5	1	ļ		<u>. </u>					-
+		-	H	 	Ι-	-	1	+	十	\vdash	\sim	-	-	<u> -</u>	<u> </u>	 	-	-	 	┝	-	1	T C	7,	-		7	Ζ,	F	<u> </u>	╌		: :					ł
			I			, ,	ati			17	<u> </u>	-			「	4	_	\vdash	\vdash	Г	T	17	1	12	-	Σ,	ठ	,	· ,	₽-	 		-			-		ŀ
1			-		Ľ	L				I	2	c	7		7	प्र		Z			Ŀ	Z	2		7	5	€ 1	5	2	:								ľ
+	_		-	_	L		╄	-	\vdash	⊨	-	-		-	_	-	-	-	-	⊨	<u> </u>	⊨	-	-	<u> </u>	-	_				L.	Ī						Γ
+		-	-	-	-	<u> </u>		-	┼	┞	-		-	<u> </u>	<u> </u>			-	├	 	<u> </u>	<u>.</u>	<u> </u>		ļ		-	_	_	_	Ļ							ŀ
\top	_		-	╁╌	 -		+	-	╁	\vdash	\vdash	H	+	Ы	a	1		├	\vdash	7	2	5) _	-	9	Ź	5		4	}	 							ł
1	_					<u> </u>		T	T		1					+			T	-	<u> </u>	 	\vdash	<u> </u>	Ė	-	H	<u> </u>	-	H	 							ŀ
4	_	_		_		L	L													/		6												- 1				Ĺ
+	-		-	_	<u> </u>		-	1	╁-	L	\vdash		_		_	<u> </u>		<u> </u>	<u> </u>	-	Ł	Z	Ŭ		É	12	ϵ		'n		7						_	ſ
\dashv		- -	\vdash		+	-	\vdash	\vdash	╁	-	-		-	-	-		_	\vdash	-	1	+=	F	F			 	=	1	-	<u> </u>	<u> </u>			<u>'</u>	:			-
+	٦		 	-	 	\vdash	\vdash	+	1-	\vdash	\vdash		-	+-	\vdash		-	\vdash	 	-	t^-			-	\vdash	-		\vdash	-	-	 -			!				ŀ
I					L,		!			1							,	1				Ė							_		İ	-		-				1
4			1	R/	10	1	1.	۲	10	忆		e	Κ.	10	10	a	17	02	乀	ļ. <u> </u>	$oxedsymbol{oxedsymbol{oxedsymbol{eta}}}$			_										-				I
+			-	-	-	\vdash	-	+-	+	\vdash	 -			\vdash				-	\vdash	\vdash	-			<u> </u>	-	-	-		ļ		Ļ.		-	i				ļ
+			-	 -	-	1	1	4		אנר		- 1	1	b	5	-	-		\vdash		K	3		-	2	\vdash	/			\$	-			; i				1
					-	1			۲	<u> </u>	Ħ	-	-		/ _		 	-	 		0	7	۲	-	10	t	1	 	יא		卜		<u>`</u>					ŀ
\perp							_					,																		J				<u></u>				ŀ
+	-		ļ	L	<u> </u>	1	[\$€	Ø	_	\ ≤	7-	4	٤.	Į)_	_		ļ	L.,	٧.	2.	8	_	Z	42	_	_	<u> </u>	1					j				
+	-	-	-	\vdash	-	-	-	-	┝			-	H	<u> </u>				L	┡		_	_		<u> </u>	_		ļ		_	ļ	<u> </u>	L		_				ļ
+		_		H	-	╁	-		╁╴	\vdash	}		H	-	├	┢		\vdash	 	-		-	<u> </u>		├	-	\vdash				-		_	-		-		ŀ
					尴	Г	-	 	\top	T	1		_	Н							-			\vdash		-	-	-	 -	ļ 	-							ŀ
																		_									5				1			i	_	-		t
4			_	Ļ.	_	L	<u> </u>	_	L	L	ļ		7	- 5		1		Ц	_	1	र्ट		-	_	,	حرا	\prod		,	3				_!				Ī
+	-		-	-	-	┝	┝	⊢	\vdash	╀	-	-	r	1		1	-	Н	 	2	0	\succeq	4			\circ	1		$\Delta 4$	<u>_</u>				_		_		ļ
\dagger	-			┝	\vdash	一	┢	┝	╁	┢	┝	-		-	-	-	-	├- - '		-	\vdash		-		H	├	3	-	-		<u> </u>			-		-		╀
									T						Г					_					-	 			-	-	<u> </u>				-			t
\perp			Ĺ	L							\Box															1					Ι			_				1
+	_		 		-	-	 	H	-	\vdash	-		<u> </u>	ļ	_	 	-		_	\vdash	_	<u> </u>	_		<u> </u>		<u> </u>	<u> </u>	<u> </u>	_	ļ		$oldsymbol{\bot}$			\Box		ſ
+	-		-	\vdash	-	-	╁	-	╁	-	\vdash	\vdash		\vdash	-	H	-	-	-		\vdash	-	-		\vdash	-					\vdash		_			_		ł
j	╛		Г				T		-	 	\vdash	H		-	-			-			\vdash			Н	\vdash	\vdash	-	H		 	 	\vdash		-				-
Ţ																															Ė			╗				ľ
4				ļ			<u> </u>	_	\vdash		<u> </u>	\sqcup		<u> </u>	_	_ _		_	 	<u> </u>	_	L	<u> </u>	Ĺ		Ĺ							\Box					I
+			-	\vdash	-	-	\vdash	-	+-	-	-	\vdash	_	-	-	 		<u> </u>	 		\vdash	<u> </u> -				\vdash		\vdash	L							Щ		ļ
\dagger	-		\vdash	-	\vdash	+	\vdash	\vdash	+	\vdash	-	Н		-	-		H	-	-	\vdash		-			 	-	\vdash		\vdash	<u></u>	1				Н	\vdash		1
														<u> </u>								Г			\vdash		F	Н						-			 .	1
1																																	'					İ
4	_	-	<u> </u>	_	-	-	-	-	-		 	Н	<u> </u>	-	_	_		L	_	<u> </u>		_	$oxed{oxed}$		<u> </u>	_				<u> </u>				_ [
\dashv	-	<u> </u>	-	<u> </u>	-	-	+	_	+	├	-	\vdash		<u> </u>	-	-	\vdash	-	ļ	 -	 - -	-		_	<u></u>	<u> </u> 	\vdash			<u>!</u>	1		· · · · ·					1
İ			<u>†</u>	<u> </u>		 		-	 	1	-	Н	-		-	-			-	 	\vdash	-	 	-	 -	<u>!</u>				<u></u>	:		_	! 1				1
													Pr	epi	are	d b	v				_			_		Cr	nec	ko.	1 6.			<u> </u>	<u> </u>	_				-
					_	Г						_		•					_		/		/20	<u></u>		۲	reC	ne(יט נ	<u> </u>		Τ_				104	···	-
		_	_										<u>_</u>	_					<u> </u>		′		12			<u> </u>						_		/		/20	JŲ	

	QUANTITY CALCULATION COVER SHEET											
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001									
Work Section Title	East Revetment	Pay Item No. (BOQ)	2/-11									
Quantity Item	Offshore dumping	Unit	M3									

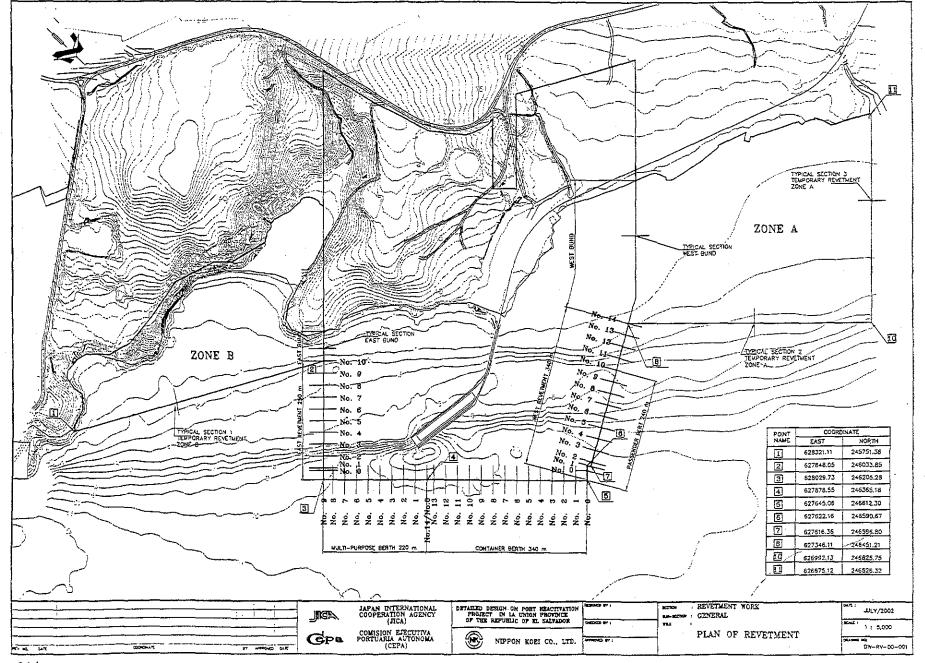
Calculation Procedure Applied

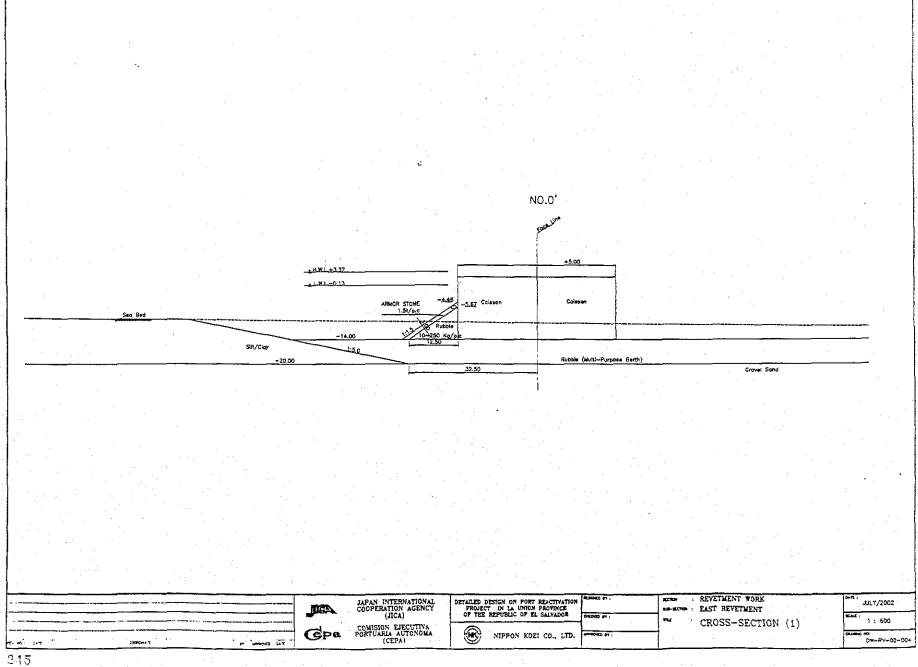
- 1. Calculation of Areas of Sections (Excel)
- 2. Average of Areas of Sections (Excel)
- 3. Calculation of Volume: Average of Average of Sections
 times distance between Sections (Ercel)

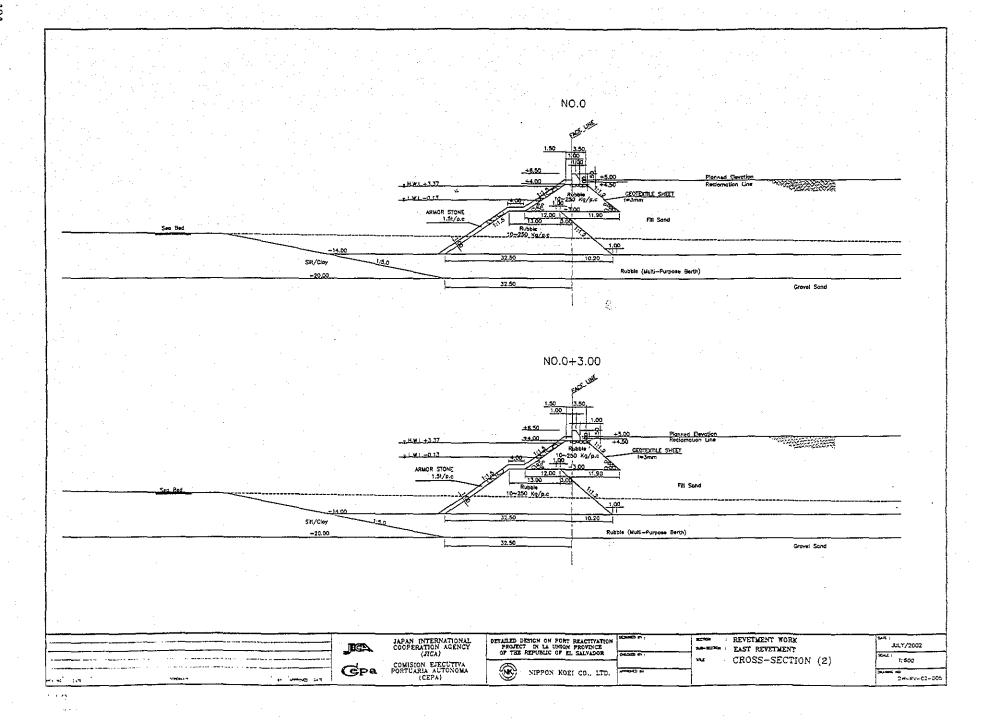
References, Calculation Base and Revisions

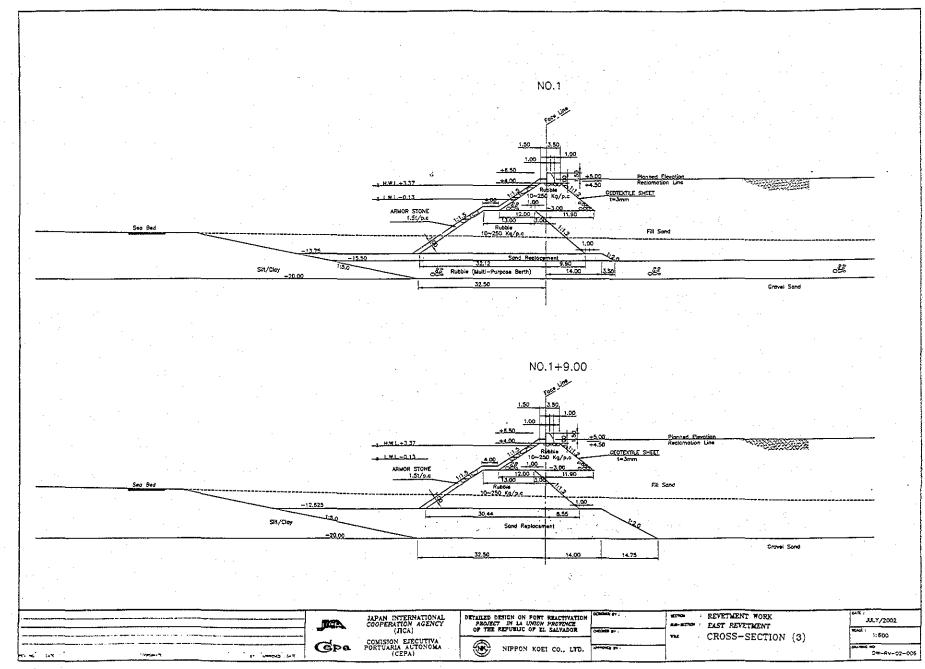
DW-RV-00-00/ DW-RV-01-004~020

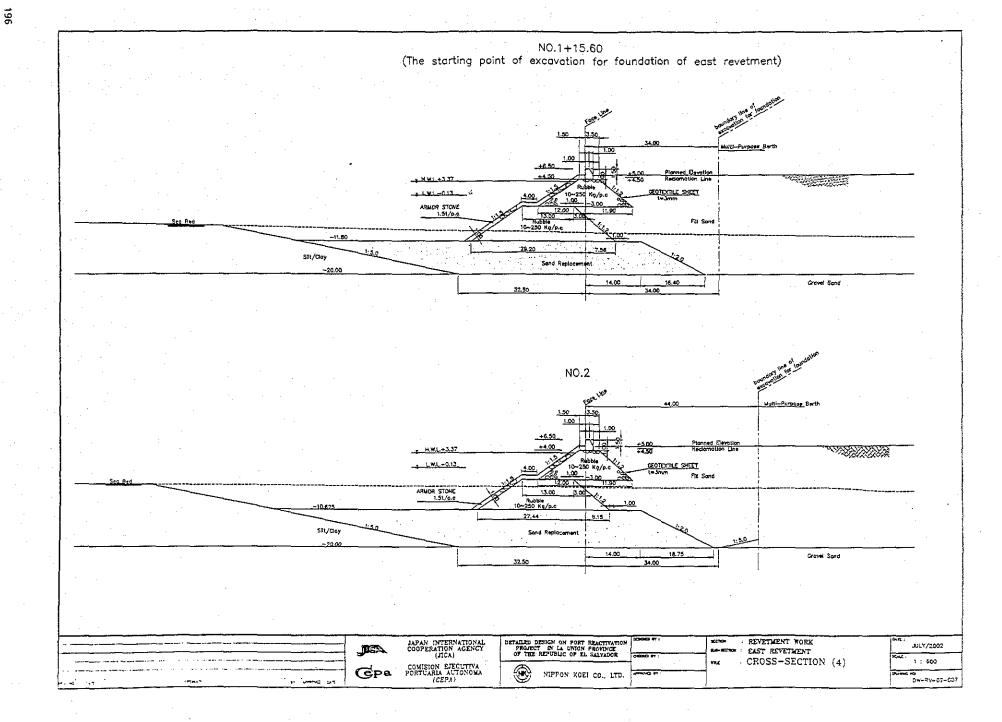
Rev	Prepared Prepared		No. of	Chec	ked	Revie	Reviewed				
TICV	. by	Date	Pages	by	Date	by	Date	by Calc No.			
0	Karlo G. Jal			Mr. Journa		Mr. Ando					
1											
2			-								
3			_								

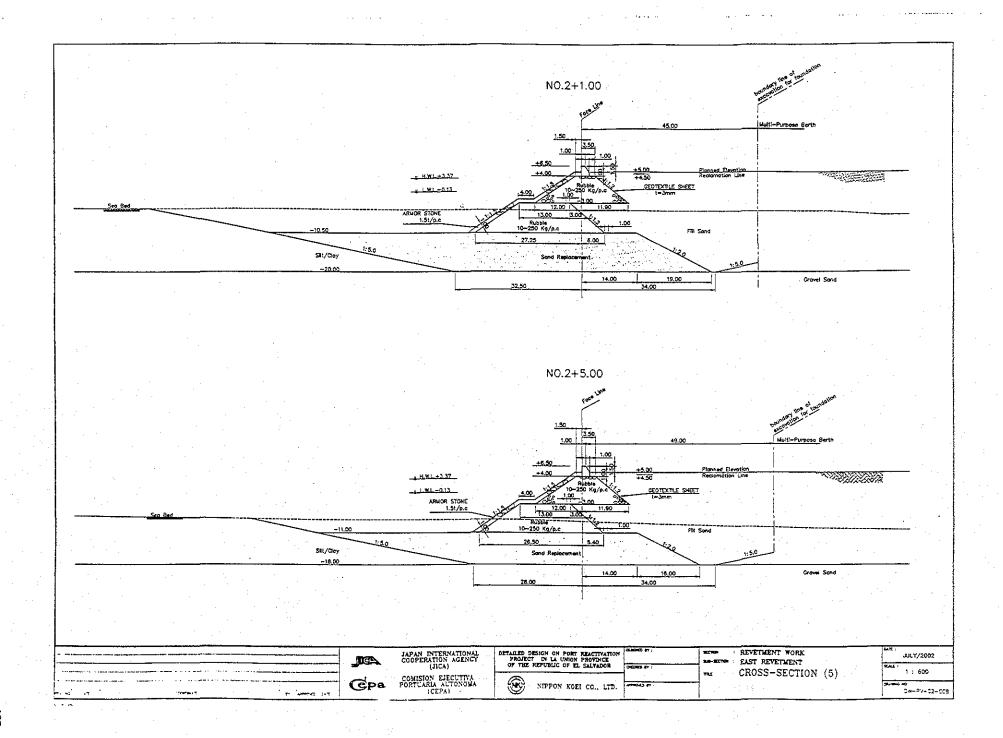


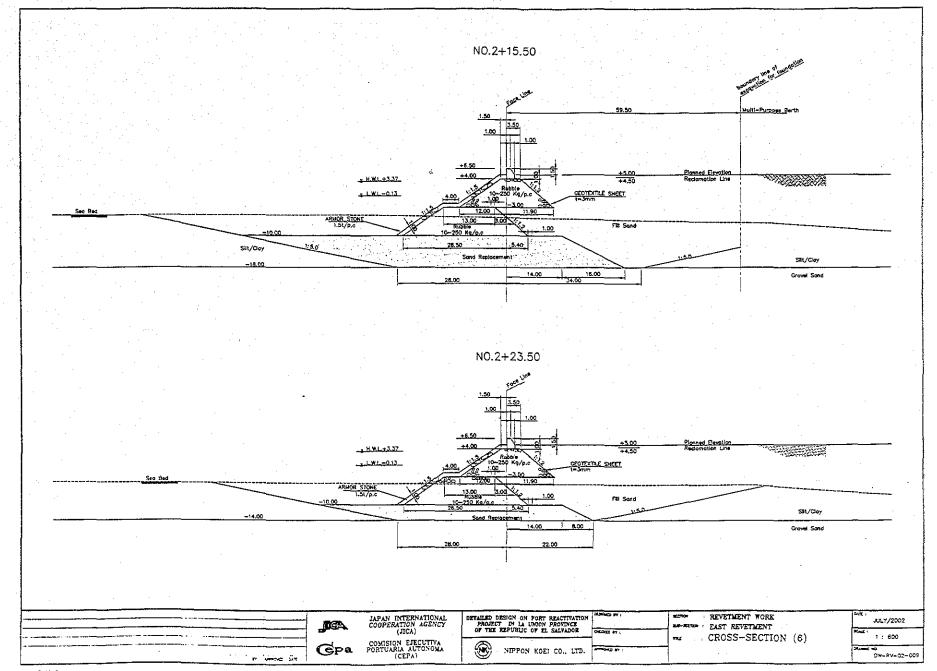


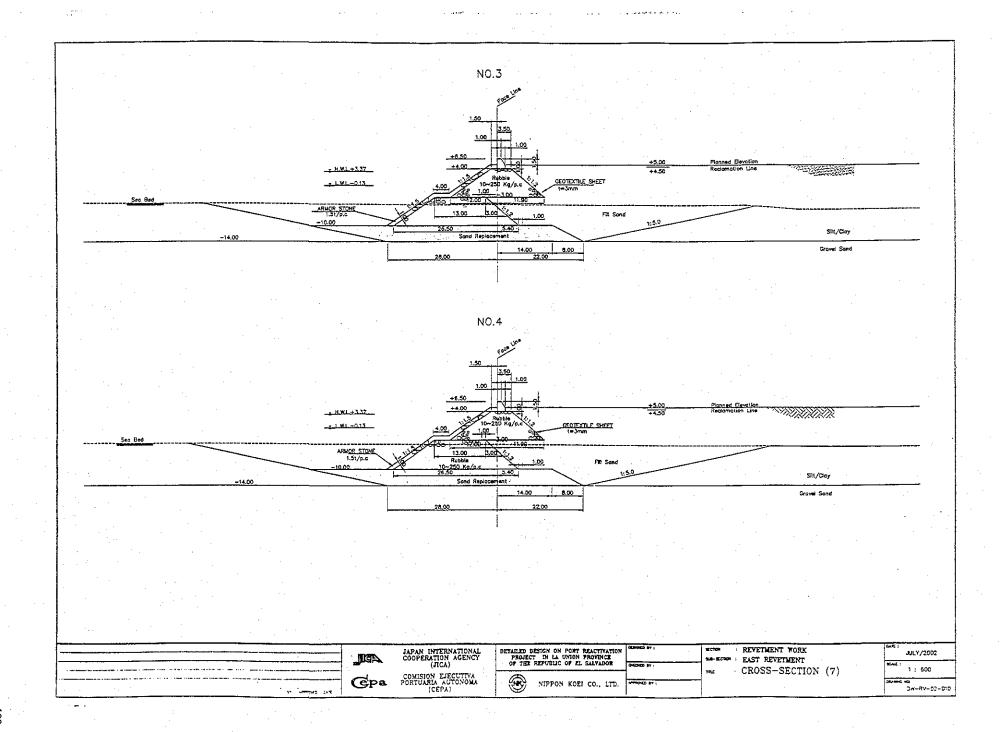


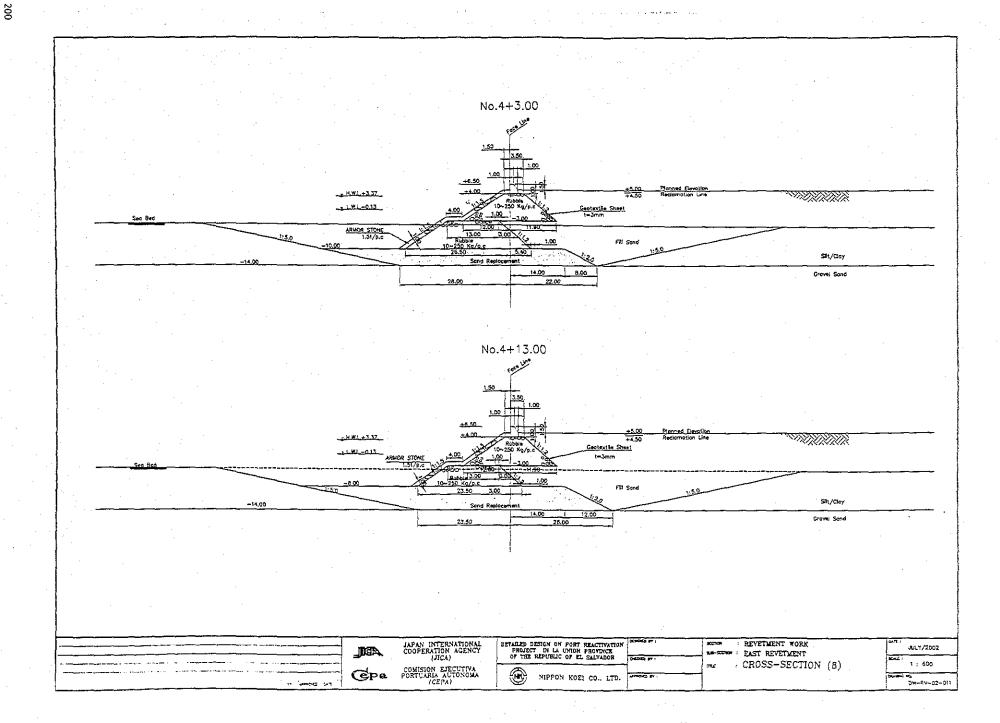


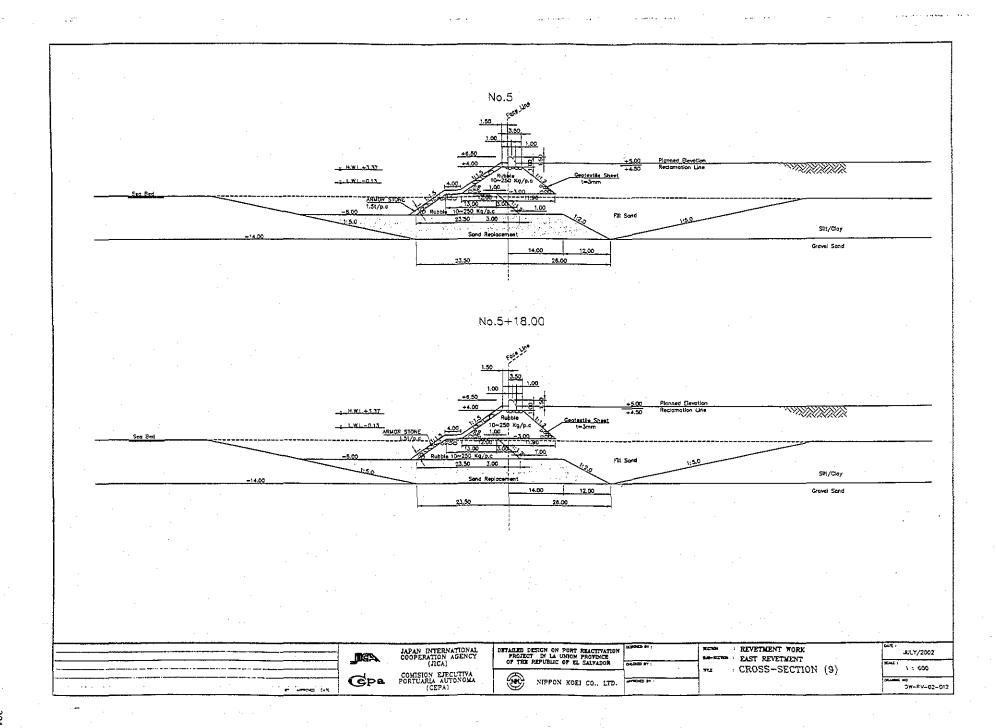


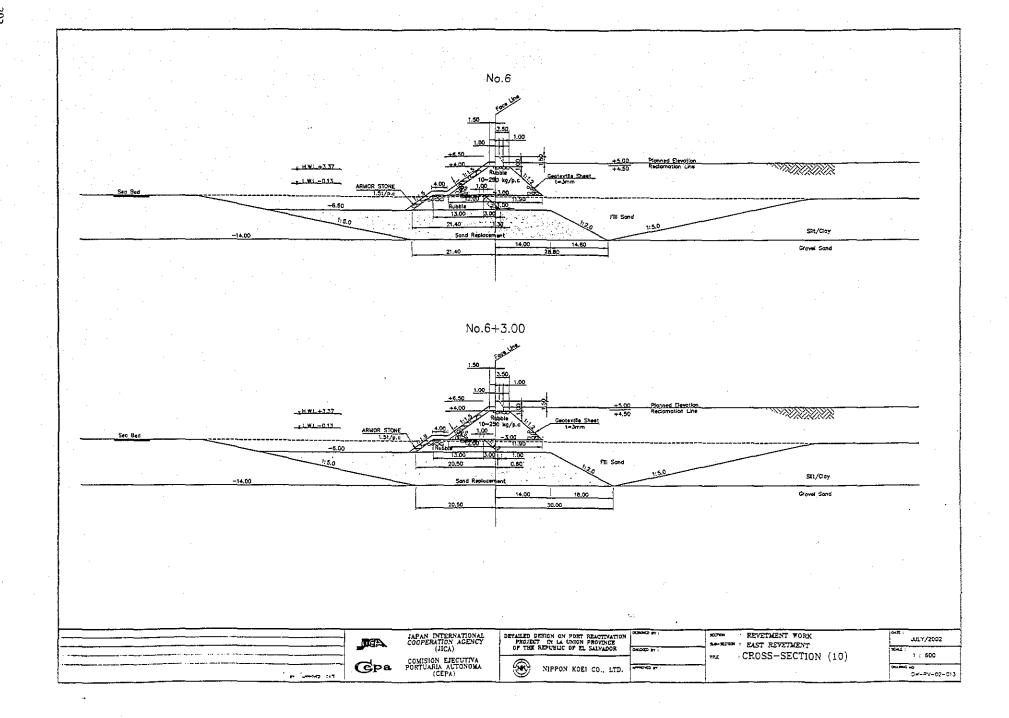


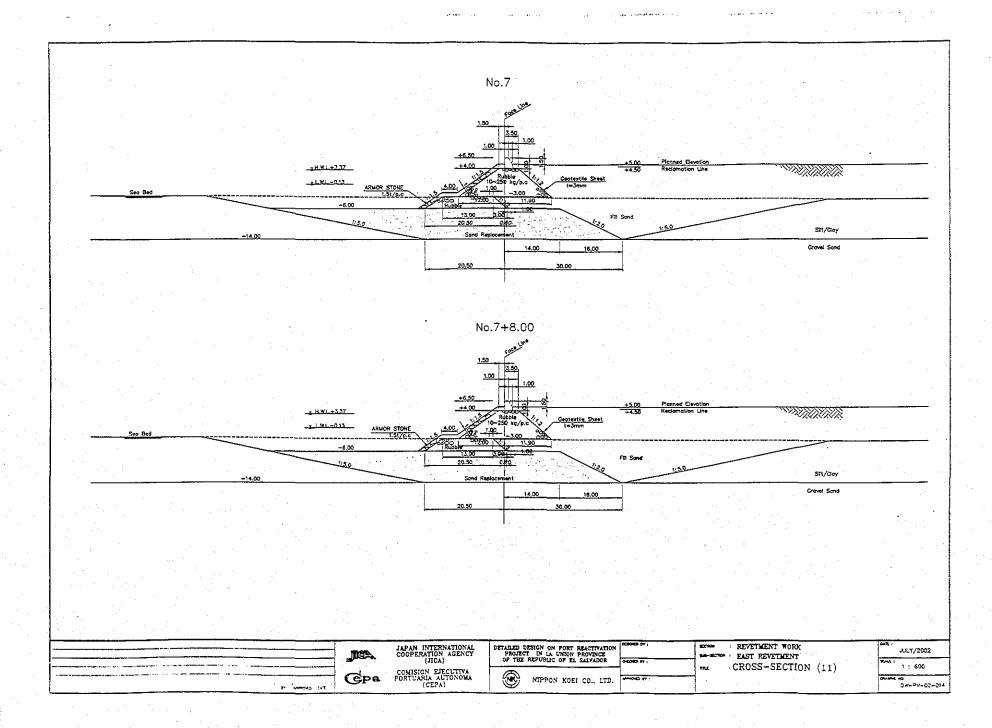


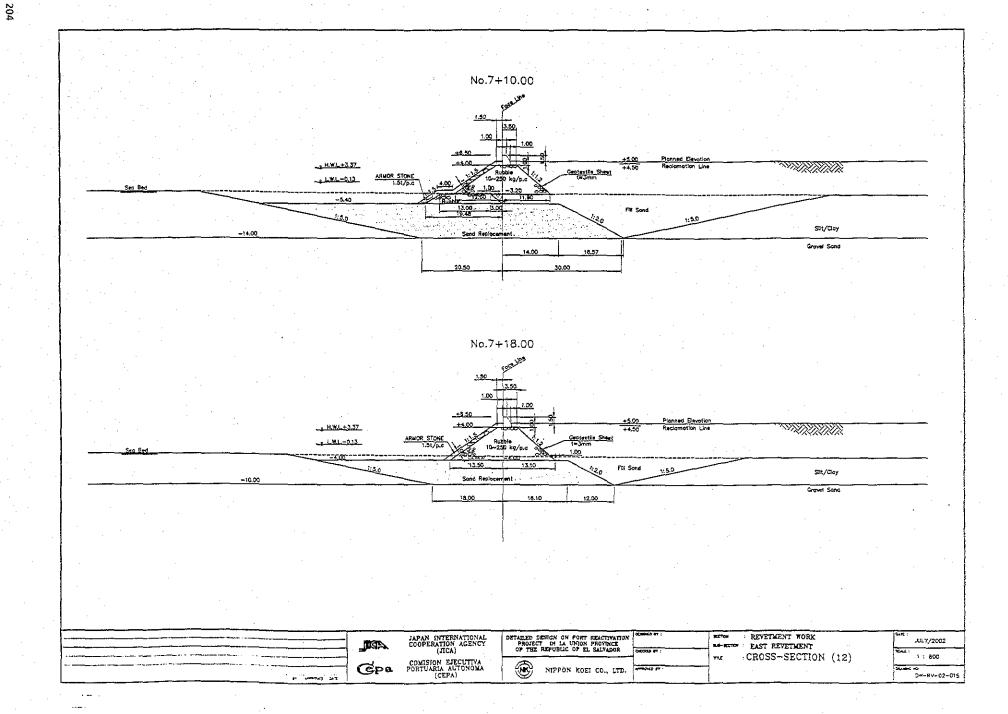


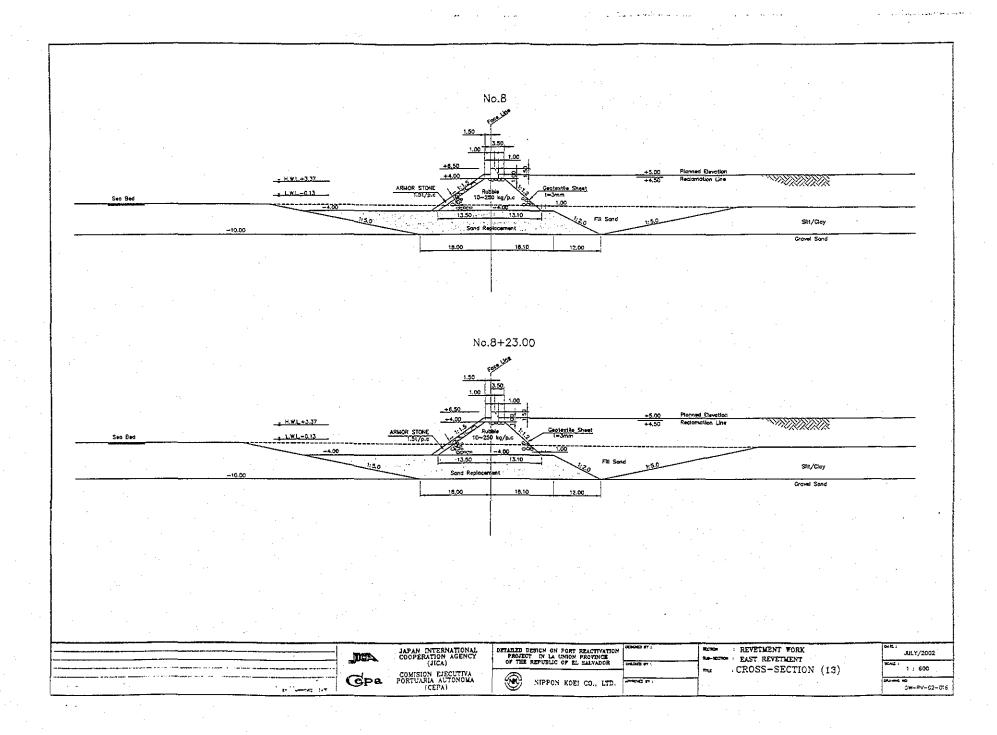


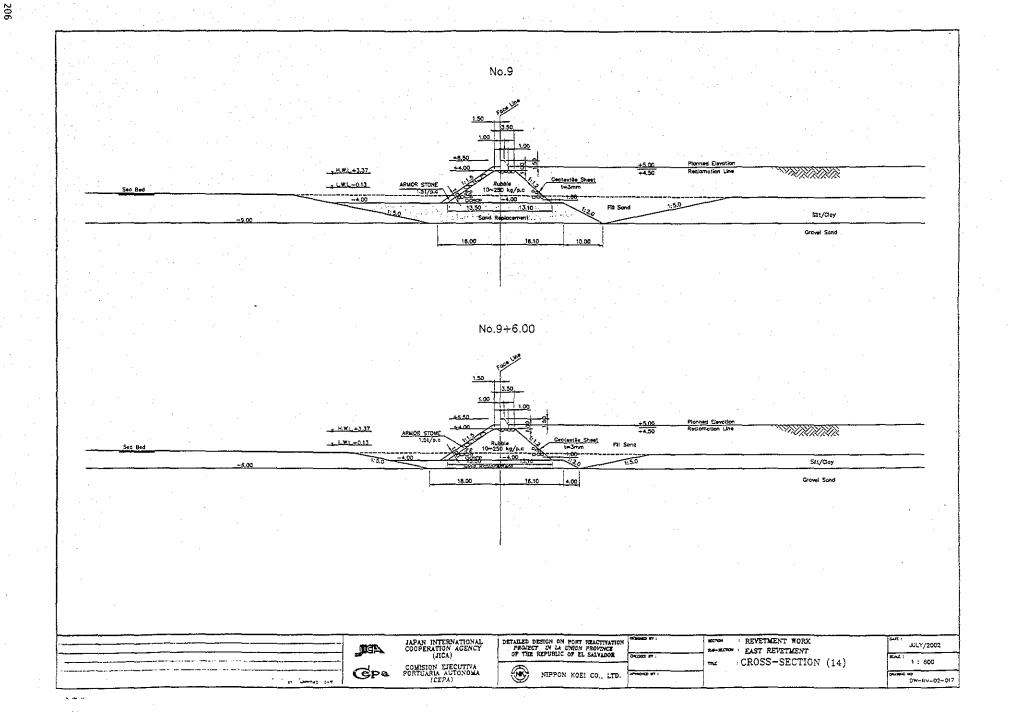


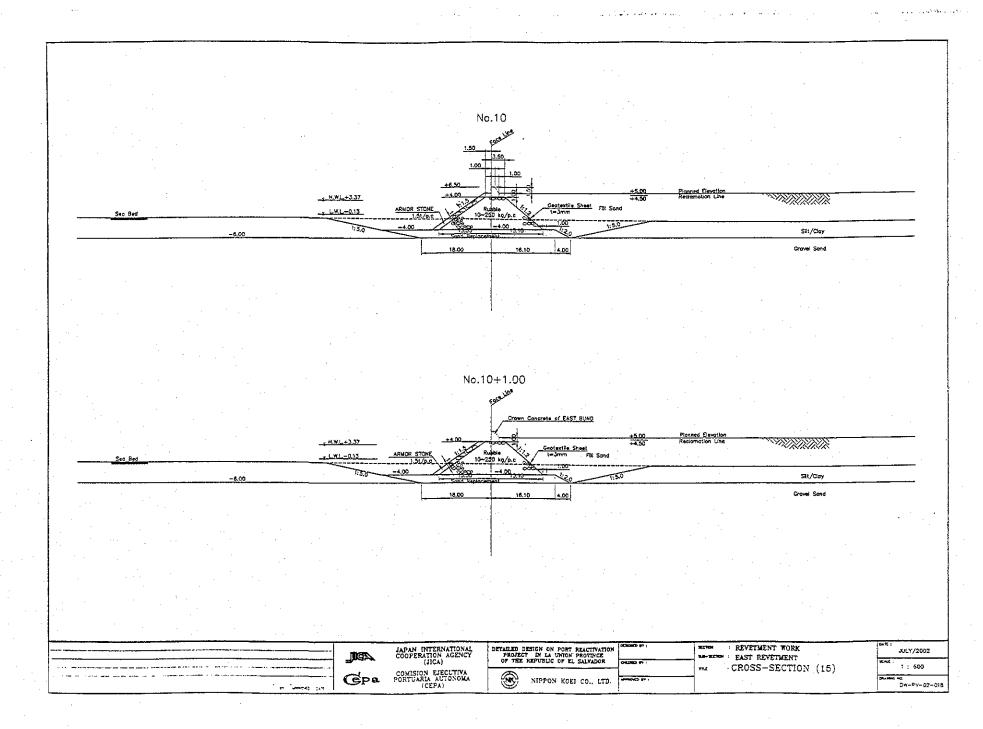


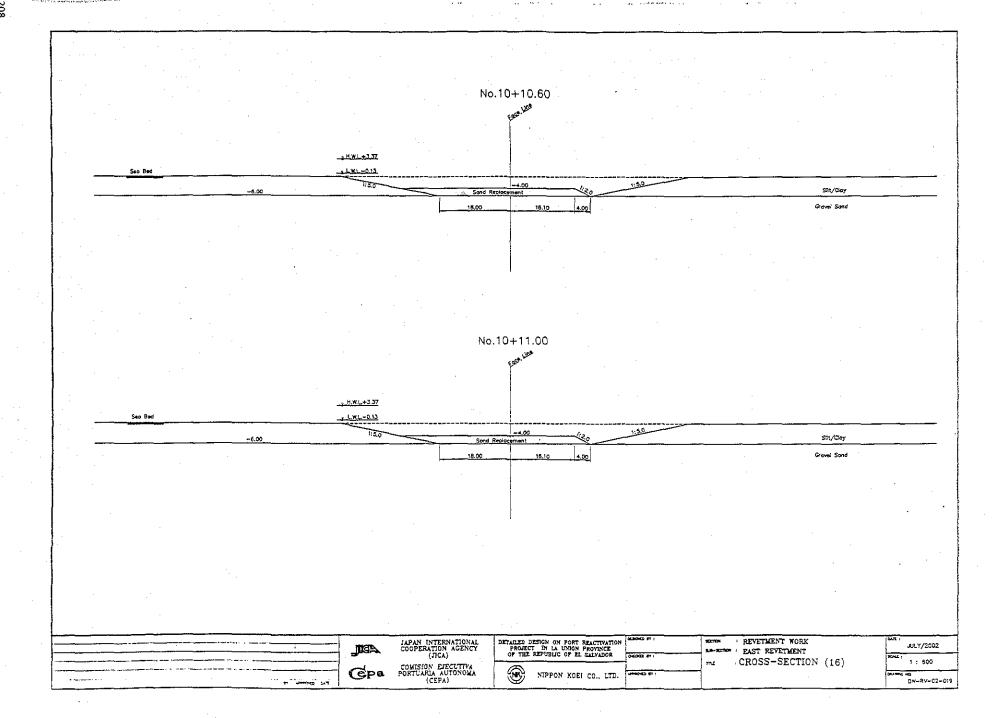


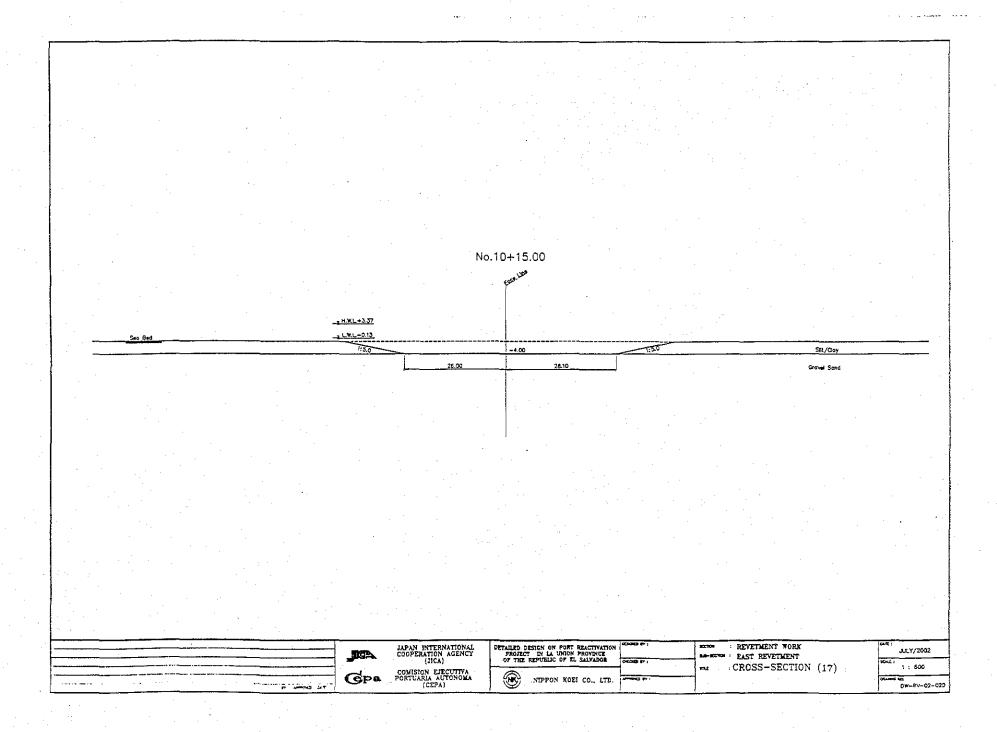


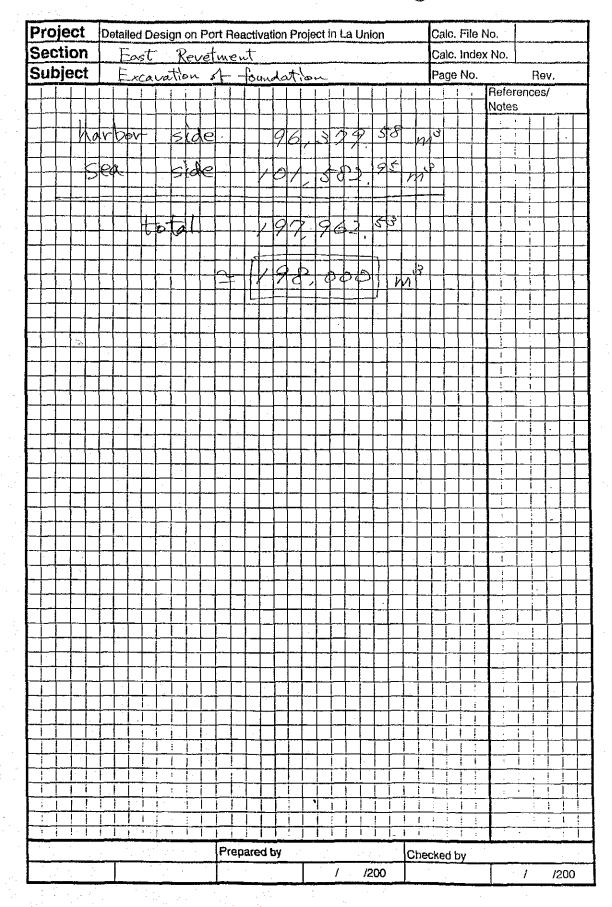












OEast Revetment

1. Excavation for Foundation (harbor side)

1. Excavation it	r Foundation (b	Average Area	Distance	
Section No.	Area (m²)	of 2 Sections	Between	Volume (m³)
20002000	THOU (III)	(m²)	Sections (m)	volume (m.)
No.1+15.60	346.45			
		499.92	9.40	4,699.25
No.2	653.39	050.04	1.00	
No.2+1.00	666.28	659.84	1.00	659.84
110.2.1.00	000.20	569.39	4,00	2,277.56
No.2+5.00	472.50	000.00		2,211.00
		555.24	10.50	5,830.02
No.2+15.50	637.98			
No.2+23.50	403,58	520.78	8.00	4,166.24
N0.2-F20.00	403.56	403.55	1.50	605,33
No.3	403.52	400.00	1.00	000,00
		428.66	25.00	10,716.50
No.4	453.80			
W 4.0.66	420.00	453.80	3.00	1,361.40
No.4+3.00	453.80	478.35	- 10.00	(800 IF
No.4+13.00	502.89	416.35	10.00	4,783.45
140.4.10.00	002.00	508,12	12.00	6,097.44
No.5	513.35	0.001.22	12.00	0,001.11
		524.92	18.00	9,448.47
No.5+18.00	536.48			
No.6	571.76	554.12	7.00	3,878.84
110.0	371.76	577.91	3.00	1,733.73
No.6+3.00	584.06	017.01	3.00	1,700.70
	777	593.79	22.00	13,063.38
No.7	603.52			
11 0 00	231.00	607.75	8.00	4,861.96
No.7+8.00	611.97	£11 07	9.00	1 000 04
No.7+10.00	611.97	611.97	2.00	1,223.94
110.1 10.00	. 011.01	460.47	8.00	3,683.72
No.7+18.00	308.96			3,000
		318.06	7.00	2,226.42
No.8	327.16	0.00		
No.8+23.00	400,50	363.83	23.00	8,368.09
110.0120.00	400,00	342.04	2.00	684.08
No.9	283.58		2.00	004.00
		195.80	6.00	1,174.80
No.9+6.00	108.02			
No.10	134.80	121.41	19.00	2,306.79
140.10	104.80	148.90	11.00	1,637.90
No.10+11.00	163.00	140.00	11.00	1,007.90
		134.90	4.00	539.60
No.10+15.00	106.80			
N. 10.01.55		53.40	6.57	350.84
No.10+21.57	0.00			
Total			230.97	96,379.58
~~~~		L	400.07	au,a 1 a.30

#### OEast Revetment

2. Excavation for Foundation (sea side)

2. Excavation for		Average Area	Distance	<u> </u>
Section No.	Area (m²)	of 2 Sections	Between	Volume (m³)
	``	(m ² )	Sections (m)	
No.1+15.60	672.35			
N- 0	100494	883.55	9.40	8,305.32
No.2	1,094.74	1,094.74	1.00	1,094.74
No.2+1.00	1,094.74	1,004.74	1.00	1,004.14
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	860.20	4.00	3,440.78
No.2+5.00	625.65			
		700.76	10.50	7,357.93
No.2+15.50	775.86	007.0		2:00:10
No.2+23.50	479.42	627.64	8.00	5,021.12
110.2425.50	419.42	479.39	1.50	719.08
No.3	479.35	410.00	1.00	710.00
		508.50	25.00	12,712.50
No.4	537.65			
		537.65	3.00	1,612.95
No.4+3.00	537.65		30.00	F 100 0F
No.4+13.00	500.14	518.90	10.00	5,188.95
110.4110.00	500.14	505.66	12.00	6,067.86
No.5	511.17	33333		0,007700
		521.49	18.00	9,386.82
No.5+18.00	531.81			
N 6	510.05	525.58	7.00	3,679.06
No.6	519.35	514.44	3.00	1,543.31
No.6+3.00	509.52	514.44	3.00	1,040.01
1.0.0.0.0	000.02	517.77	22.00	11,390.83
No.7	526,01			
		533.22	8.00	4,265.72
No.7+8.00	540,42			*************
No.7+10.00	540,42	540.42	2.00	1,080.84
110,7710.00	540.42	398.60	8.00	3,188.80
No.7+18.00	256.78	000.00	0.00	3,100.00
		265.35	7.00	1,857.42
No.8	273.91			
		313.43	23.00	7,208.89
No.8+23.00	352.95	907.00	0.00	FOF 95
No.9	242.90	297.93	2.00	595.85
13.0	242.30	174.71	6.00	1,048.26
No.9+6.00	106,52		0.00	
· · · - · · · · · · · · · · · · · · · ·		123.79	19.00	2,352.01
No.10	141.06			
N- 10 (11 00	150 54	147.32	11.00	1,620.47
No.10+11.00	153.57	127.53	4.00	510.10
No.10+15.00	101.48	141.03	4.00	910.10
2.3.10 10.00	101.40	50.74	6.57	333.36
No.10+21.57	0.00		3.01	
Total			230.97	101,582.95