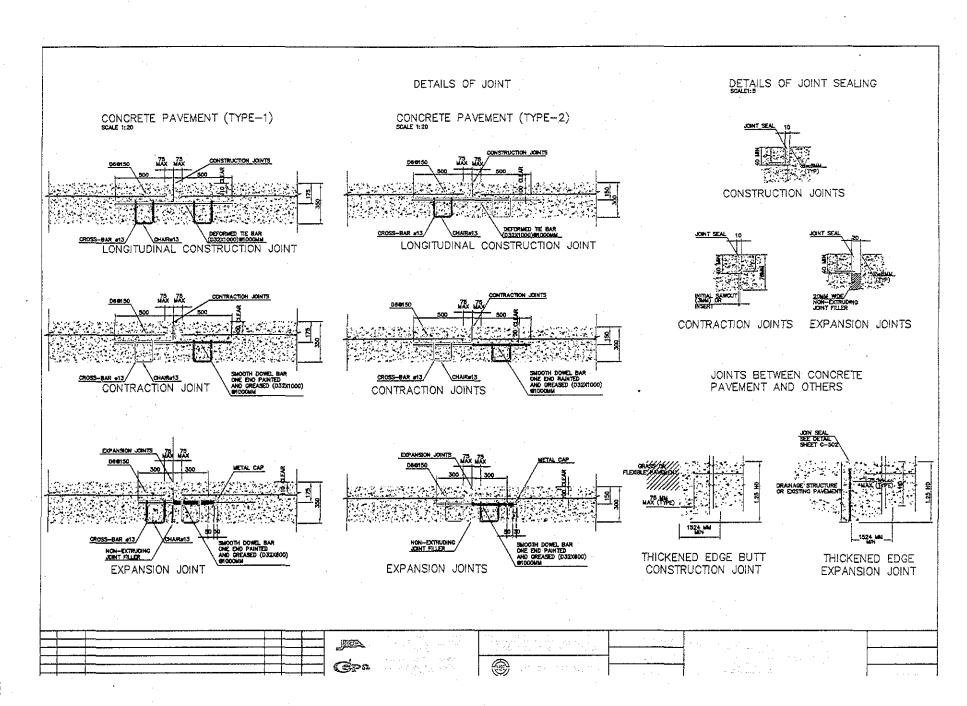
	QUANTITY CALCULATION C		
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	APRON CONCRETE PAVEHENT	Pay Item No. (BOQ)	2B-1006
Quantity Item	ELAS TIGH BOALD	Unit	m²

Elos high board one was computed container apron povement. Inco was computed multiplying the length of elas high by the width.

References, Calculation Base and Revisions

Rehrances: Tender Drawings: DW-QW-01-009 Details of Concrete Pavement

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	QUANTITY CALCULATION C		
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
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Quantity Item	JOINT FILTER	Unit	m²

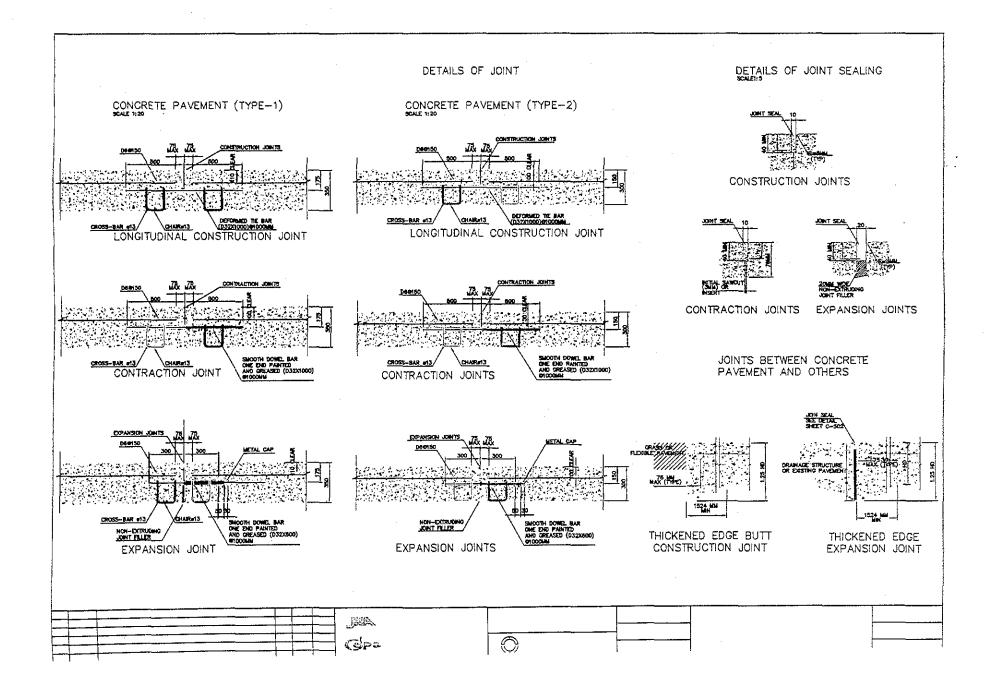
Joint tilks one was computed for container Apron povement. Iron was computed multiplying the length of joint filter by the width.

References, Calculation Base and Revisions

DW-PV-02-009

References: Temor Drawings: DW-PV-01-009 Detoils of Concrete Povement

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	QUANTITY CALCULATION C		
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Quantity Item	TRON HESH	Unit	m²

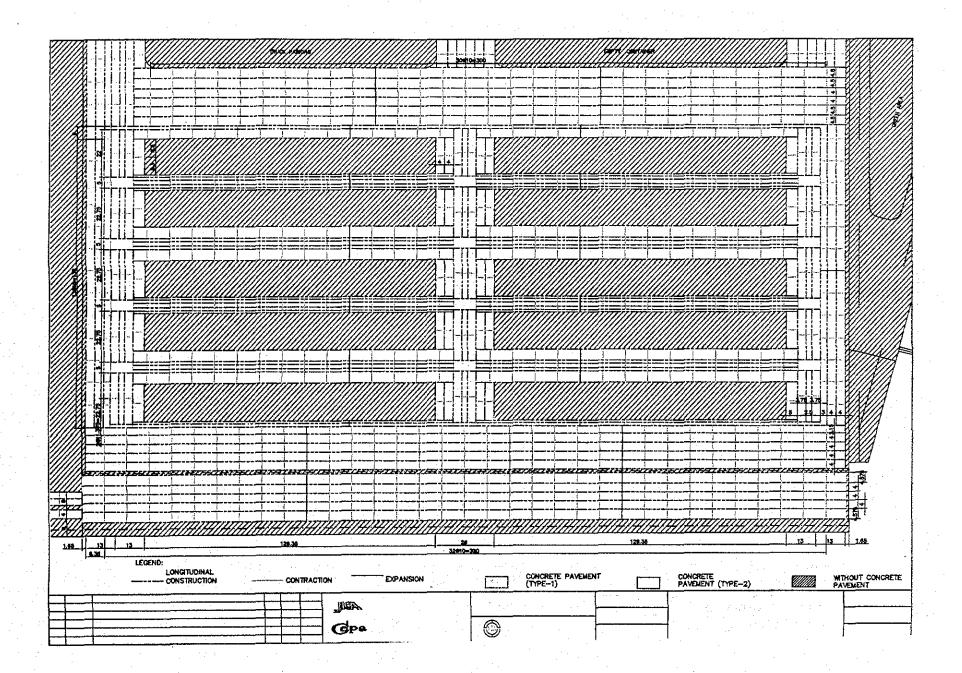
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References, Calculation Base and Revisions

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Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	SAND PROTECTION SHEET	Pay Item No. (BOQ)	2B-1101
Quantity Item	Saud Protection Sheet	Unit	m ·

Sand protection sheet was computed for Container Berth. The total length was computed multiplying the perimeter of sand protection sheet to the total of caissons for each type of cross section.

References, Calculation Base and Revisions

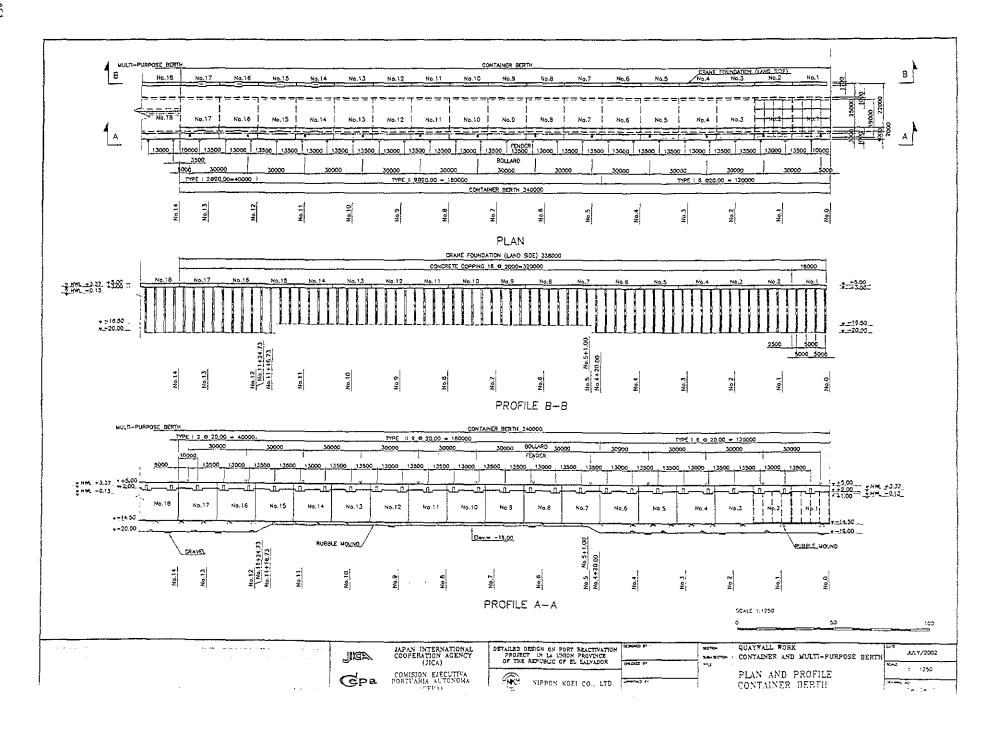
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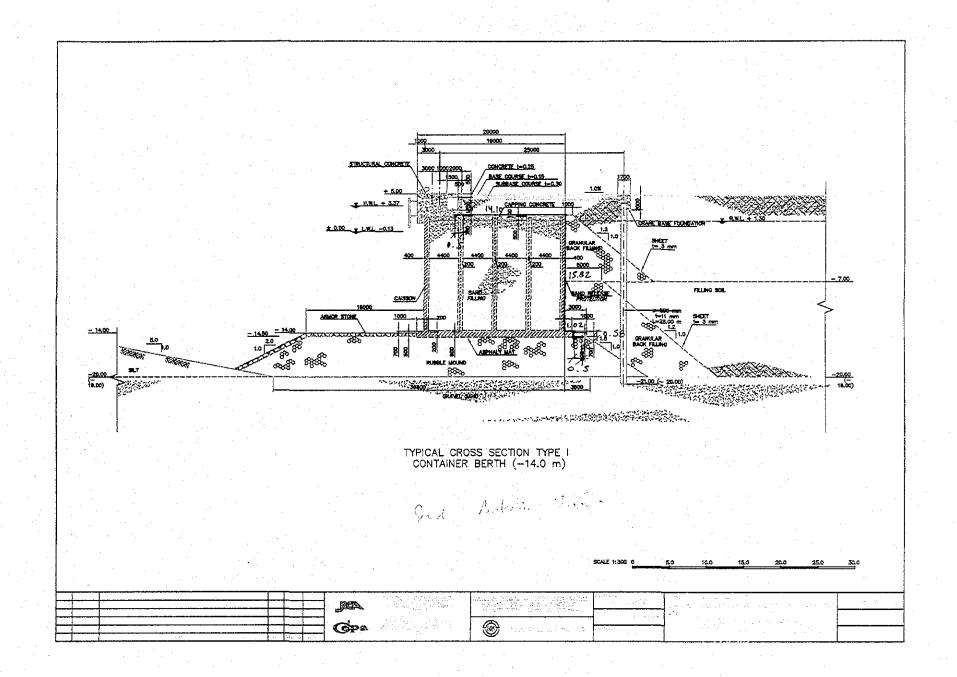
0W-QW-01-001 Plan and Profile Container Buth

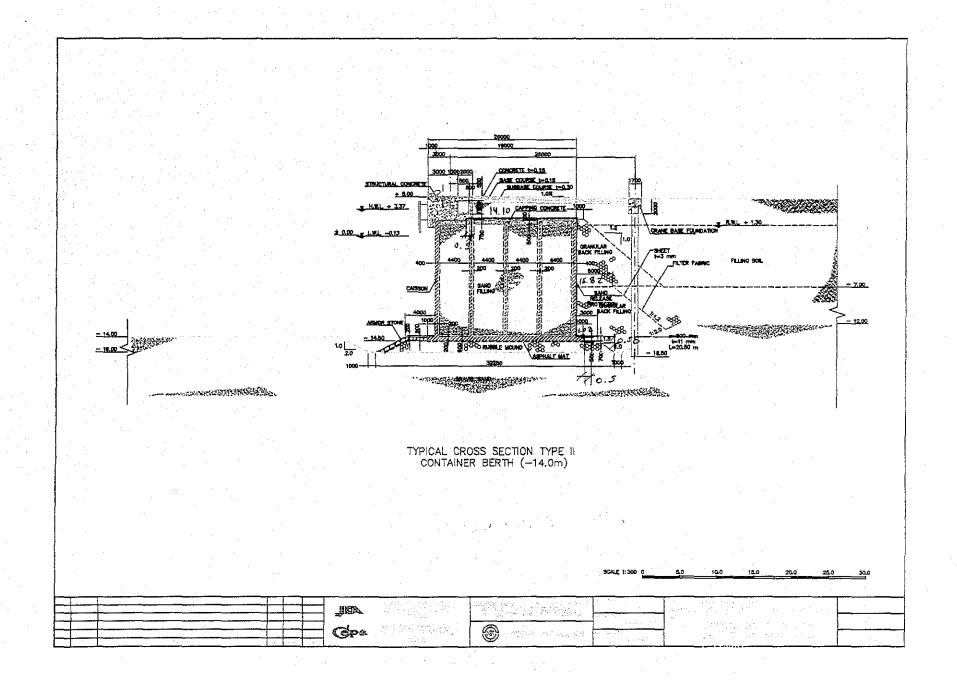
0W-QW-01-003 Typical Cross Section Type I Container Buth

oW-QW-01-004 Typical Cross Section Type II Container Buth

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	QUANTITY CALCULATION C		
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	Sand Protection Sheet	Pay Item No. (BOQ)	213-1103
Quantity Item	Steel Plate	Unit	kg .

Steel plate will be used for base plate of sand protection sheet. Two steel plates will be used on each edge of sand protection sheet.

References, Calculation Base and Revisions

Sand Protection Sheet 1

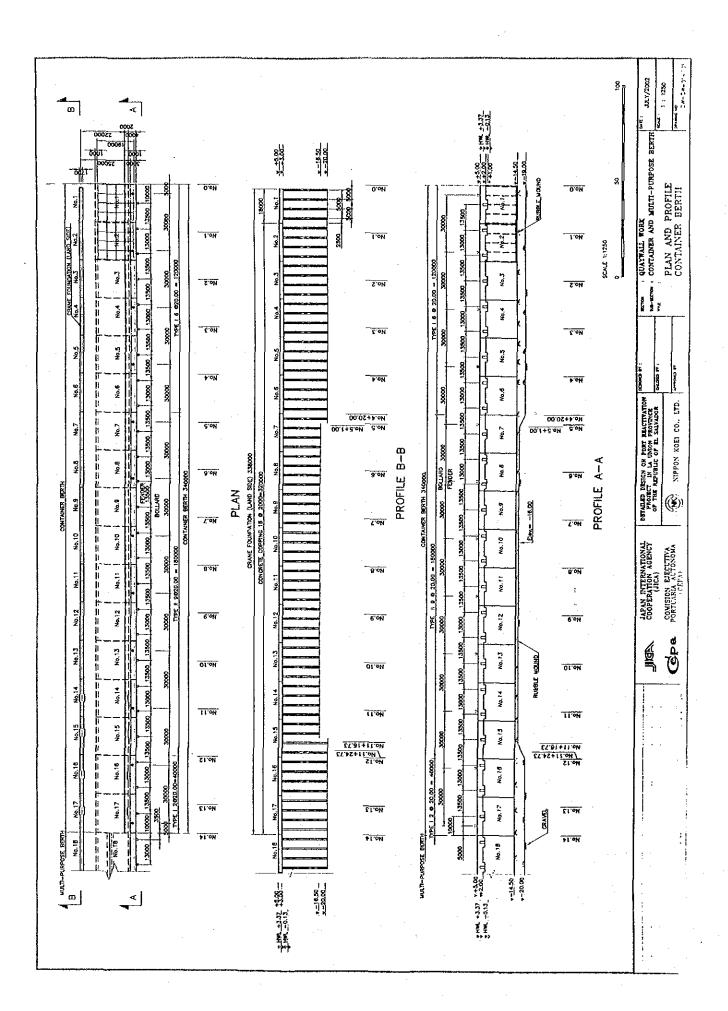
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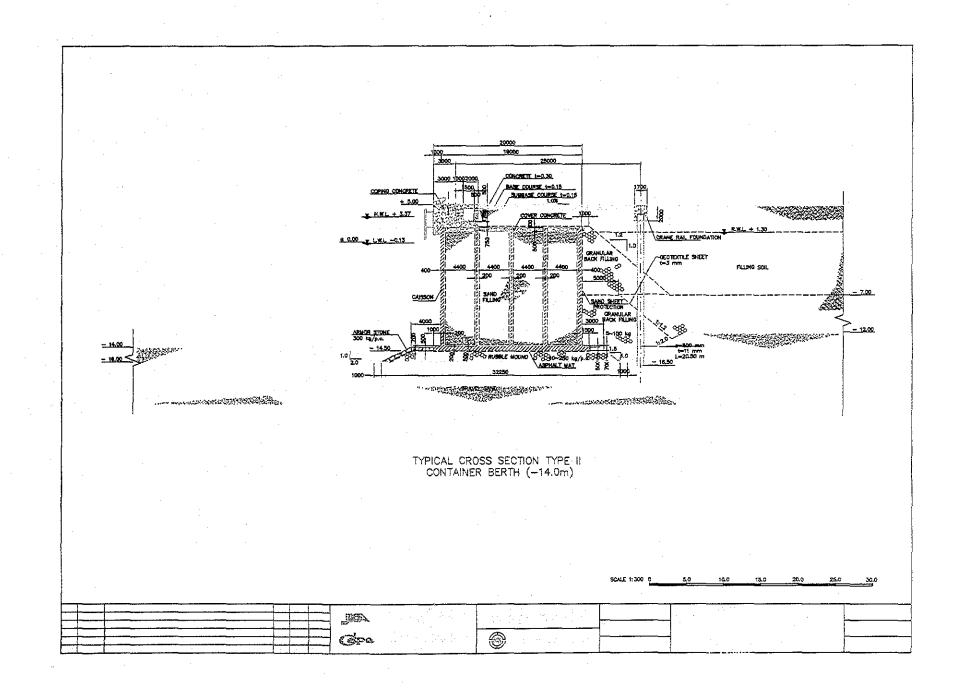
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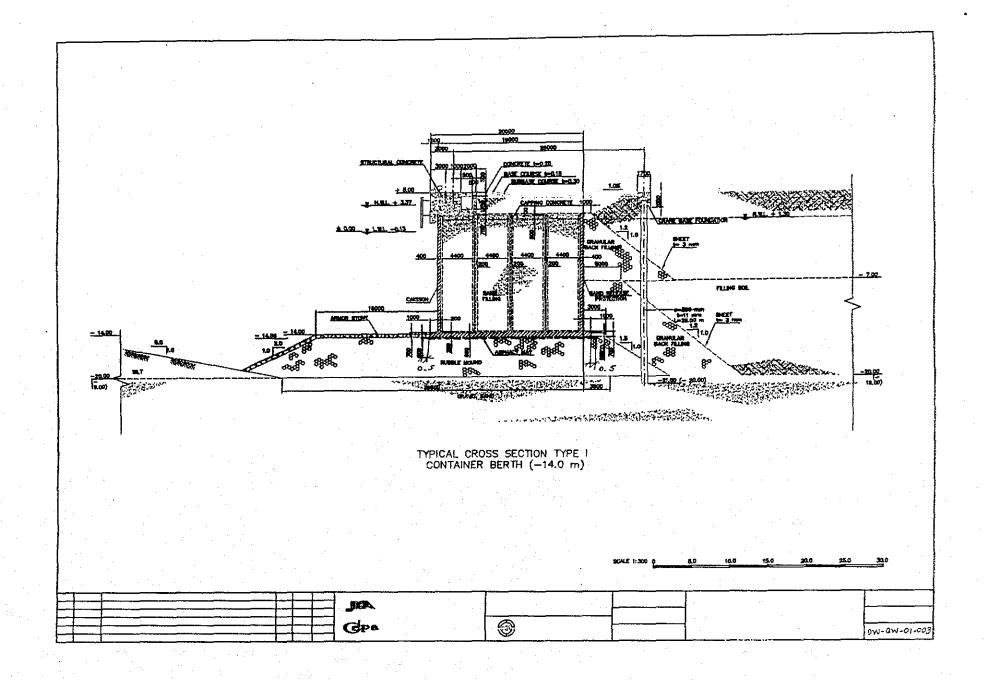
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	QUANTITY CALCULATION C		
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	Back Filling behind aisson	Pay Item No. (BOQ)	28 - 1201
Quantity Item	BACKTILING STONE	Unit	M _G

- 1. Calculation of Areas of Soctions
- 2. Average of Amas of Sections
- 3. Calculation of Volume : Average of Average of Societies
 There distance between Sections
 (Excel)

References, Calculation Base and Revisions

References: Tender Drawings:

From DW-QW-01-011 Cross Schon 3 (Container)

To DW-QW-01-018 Cross-Section 10 (Container)

(Some as "Rubble Yound of Coisson)

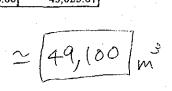
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cover

OContainer Berth 9. Backfill Rublic

9. Backfill Rublie		a di delle e		· ·
		Average Area	Distance	
Section No.	Area (m²)	of 2 Sections	Between	Volume (m³)
and the second	The second second	(m²)	Sections (m)	
full de gu	- 1			1.5 0.0
No.0+8.00	0.00	· January Compa	44 S. F. F. S. B. F.	e e 1 de de Meliji
5,45,4	1 97 19	87.36	19.20	1,677.2
No.1+2,20	174.71	1 24 14	11.1 A 8 g	er la agricultik
gardina di Santa	and the Con-	174,71	22.80	3,983.3
No.2	174.71	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A. 430	e y maskingar
14. 5	1 por 1 1 22	174.71	25.00	4,367.70
No.3	174.71	the state of the s	10.0	The Anglish Control
	, time 45	174.71	25.00	4,367.78
No.4	174.71	a hybrida	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4.1967
97 W Lett. 11	. Horning	174.71	20.00	3,494.20
No.4+20.00	174.71	15 Test	11.74	4.00
7.48	S AREA S	152.44	5.00	762.18
No.5	130.16	1.00	2 × 12 × 1	and the second of
No. 1 Constitution	to the second	130.16	1.00	130.16
No5+1.00	130.16	5 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	e i e lagrigi	14
	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	130.16	24.00	3,123.8
No.6	130.16	175	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	aanii je filo
14ts	F12, 1789	130.16	25.00	3,254.00
No.7	130.16		entre la companya de la companya de la companya de la companya de la companya de la companya de la companya de	AND CONTRACTOR
e znak	y reside	130.16	25.00	3,254.00
No.8	130.16	a Haliotanio	5 N. W.	, to a little fail
	47 97 45	130.16	25.00	3,254.00
No.9	130.16	2000	1 2 M Air	N-1275
-X111	741 (14)	130.16	25.00	3,254.00
No.10	130.16	the Committee	7.1.2	1000
	e en li Ales	130.16	25.00	3,254.00
No.11	130.16	1.1 1.1	<u> </u>	Table 12 de
548.18 (1) F. F. F.	1 website	130.16	16.73	2,177.58
No.11+16.73	130.16	et la la la	1.0	
	14.04.08	157.19	8.00	1,257.48
No.11+24.73	184.21	e Tay		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
<u> </u>	100000	184.21	0.27	49.74
No.12	184.21	to Deed of	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	a a mamana
1161	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	184.21	25.00	4,605.25
No.13	184.21		2.0	3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
0.00		184.21	15.00	2,763.16
No.14	184.21			
Total		2,689.73	332.00	49,029.67



	QUANTITY CALCULATION C										
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001								
Work Section Title	Back Filling behind Caisson	Pay Item No. (BOQ)	28-1202								
Quantity Item											

- 1. Calculation of Lengths of Sections
- 2. Average of Lengths of Sections
- 3. Calculation of Area: Average & Lengths of Soctions
 times distance between Sections
 (Excel)

References, Calculation Base and Revisions

References: Tindu Drawings:

Tran IN-2N-31-011 Container Bally OF

To DW-QN-01-013 Container Bally 10

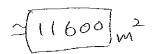
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OContainer Berth

10. Trimming of Backfill Rublle

10. Trimming of	васкин кирпе			
Section No.	Length (m)	Average Length of 2	Distance Between	Area (m²)
		Sections (m)	Sections (m)	
No.0+8.00	0.00			
		20.30	19.20	389.76
No.1+2,20	40.60			
	•	40.60	22.80	925.68
No.2	40.60			
		40.60	25.00	1,015.00
No.3	40.60			<u> </u>
		40.60	25.00	1,015.00
No.4	40.60			
		40.60	20.00	812.00
No.4+20.00	40.60			
		35.93	5.00	179.65
No.5	31.26			
		31.26	1.00	31.26
No5+1.00	31.26			
		31.26	24.00	750.24
No.6	31.26			
		31.26	25.00	781.50
No.7	31.26			
		31.26	25.00	781.50
No.8	31.26			
		31.26	25.00	781.50
No.9	31.26			
		31.26	25.00	781.50
No.10	31.26			
		31.26	25.00	781.50
No.11	31.26			
		31.26	16.73	522.98
No.11+16.73	31.26			
		36.72	8.00	293.72
No.11+24.73	42.17			
		42.17	0.27	11.39
No.12	42.17			
		42.17	25.00	1,054.25
No.13	42.17			
		42.17	15.00	632.55
No.14	42.17			
Total		631.94	332.00	11,540.98
	 		h	



	QUANTITY CALCULATION C		
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	Back Filling behind aisson	Pay Item No. (BOQ)	2B-1203
Quantity Item	Geotextile Sheet	Unit	M ₅

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

References, Calculation Base and Revisions

Ferences: Tinder Drowings:

Torr DN - QN - 01 - 011 Container Ealth 01

To DN - QN - 01 - 018 Container Best 10

(Some as Rubble Hound of Gisson)

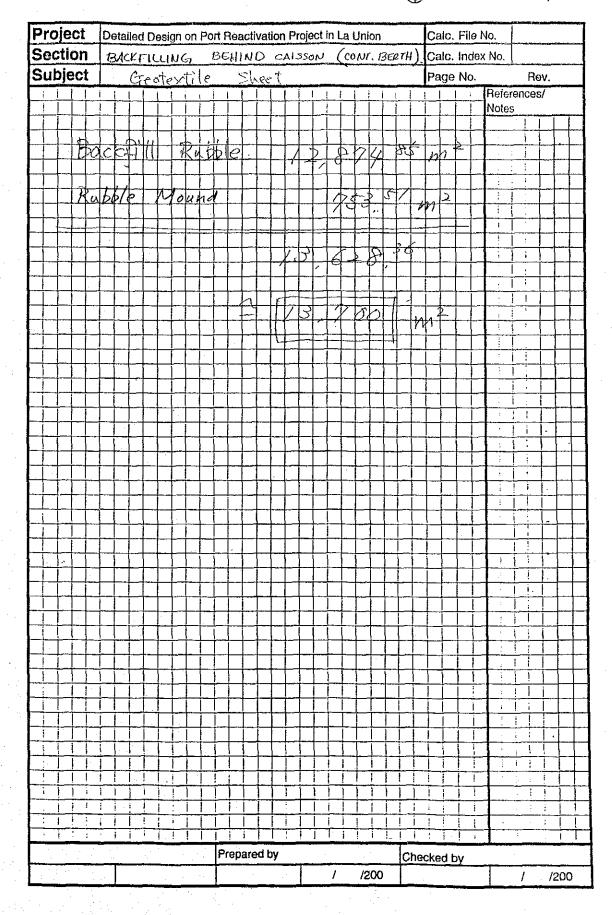
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OContainer Berth 11. Filter Fabric (Backfill Rublle)

		Average	Distance	
Section No.	Length (m)	Length of 2	Between	Area (m²)
		Sections (m)	Sections (m)	
No.0+8.00	0.00			
210.0.0.00	0.00	22,30	19.20	428.16
No.1+2.20	44.60		20.20	
		44.60	22,80	1,016.88
No.2	44.60			
	· · · · · · · · · · · · · · · · · · ·	44.60	25.00	1,115.00
No.3	44.60		25.00	3 1 3 5 0 0
No.4	44.60	44.60	25.00	1,115.00
110.4	44.00	44.60	20.00	892.00
No.4+20.00	44.60	44.00	20.00	002.00
		39.93	5.00	199.65
No.5	35.26			
		35.26	1.00	35.26
No5+1.00	35.26			
)	05.00	35.26	24.00	846.24
No.6	35.26	95 0C	95 00	001 70
No.7	35.26	35.26	25.00	881.50
	00.20	35.26	25.00	881.50
No.8	35.26	00.20		00111
		35.26	25.00	881.50
No.9	35.26			
		35.26	25.00	881.50
No.10	35.26	- 65.00		
No.11	35.26	35.26	25.00	881.50
140.11	30.20	35.26	16.73	589.90
No.11+16.73	35.26	30.20	10.10	000.00
		41.22	8.00	329.72
No.11+24.73	47.17	- 		
		47.17	0.27	12.74
No.12	47.17			
XI- 10	19 19	47.17	25.00	1,179.25
No.13	47.17	$-\frac{47.17}{}$	15.00	707.55
No.14	47.17	41.11	15.00	101.00
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	71,17			
Total	1	705.44	332.00	12,874.85

OContainer Berth 12. Filter Fabric (Rubble Mound)

Section No.	Length (m)	Average Length of 2 Sections (m)	Distance Between Sections (m)	Area (m²)
······································		Bootions (III)	Dectrons (m)	· · · · · · · · · · · · · · · · · · ·
No.0-64.66	0.00	····		
· .		2.76	10.46	28.87
No.0-54.20	5.52			
		7.82	13.62	106.44
No.0-40.58	10.11			
		10.11	14.93	150.94
No.0-25.65	10.11			14.1
1,		10,11	25.65	259.32
No.0	10.11			
		10.86	0.00	0.00
No.0'	11.61			
		11.61	17.91	207.94
No.0+17.91	11.61			
Total		53.27	82.57	753.51



	QUANTITY CALCULATION C		
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	STEEL PIPE PILE FOR CRANE RAIL TOUNCATION	Pay item No. (BOQ)	28-1301
Quantity Item	CRAILE BASE PILE	Unit	tm '

Pile length and seign was computed for each type of pile, including diameter and thickness.

Longth was computed by Intelliced and multiplied to the total number of pile in Container Berth.

The unit and total weight for each type of pile was computed, using Weight Tacles. length and weight was computed with 2 decimal for each type of section and zero decimal for total.

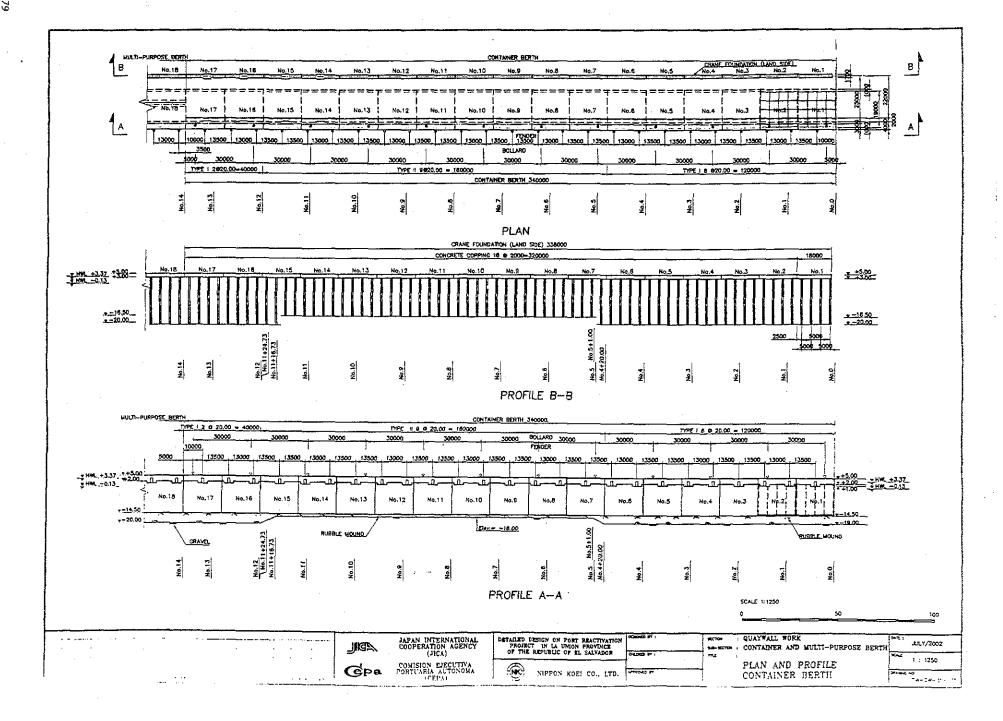
References, Calculation Base and Revisions

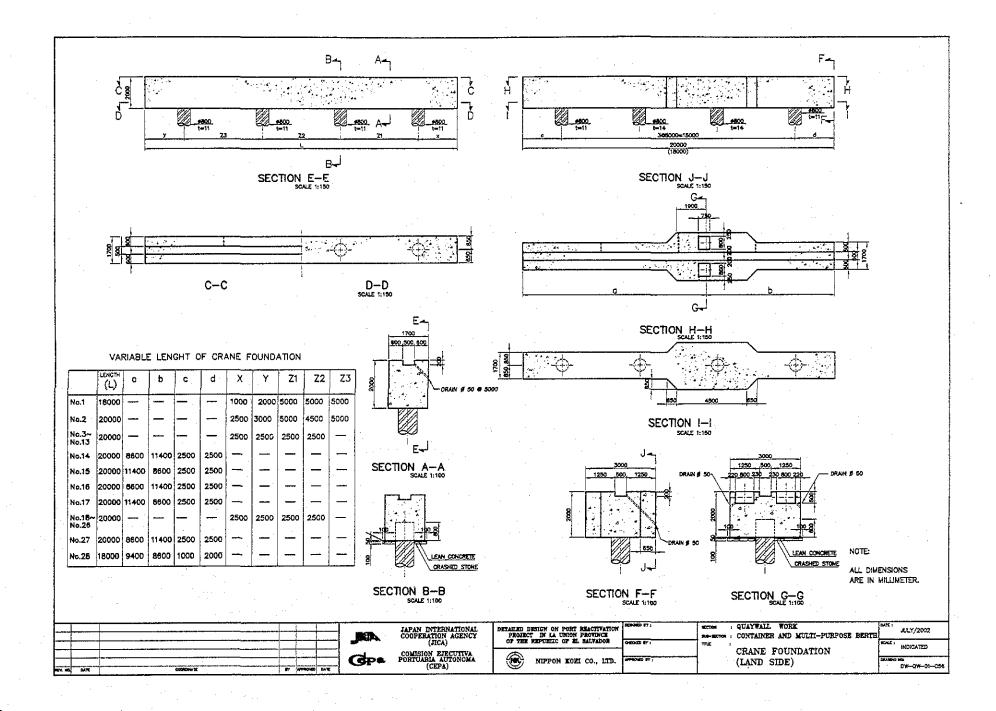
Remones. Tender Drawings:

EW-2W-01.001 Flow and Profile Container Bally

EW-2W-01-056 Crone toundation (land Side)

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Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	CONCRETE FOR CRANE PAIL TOUNDATION	Pay Item No. (BOQ)	2B-1302
Quantity Item	Steel Plate	Unit	kg

Calculation Procedure Applied

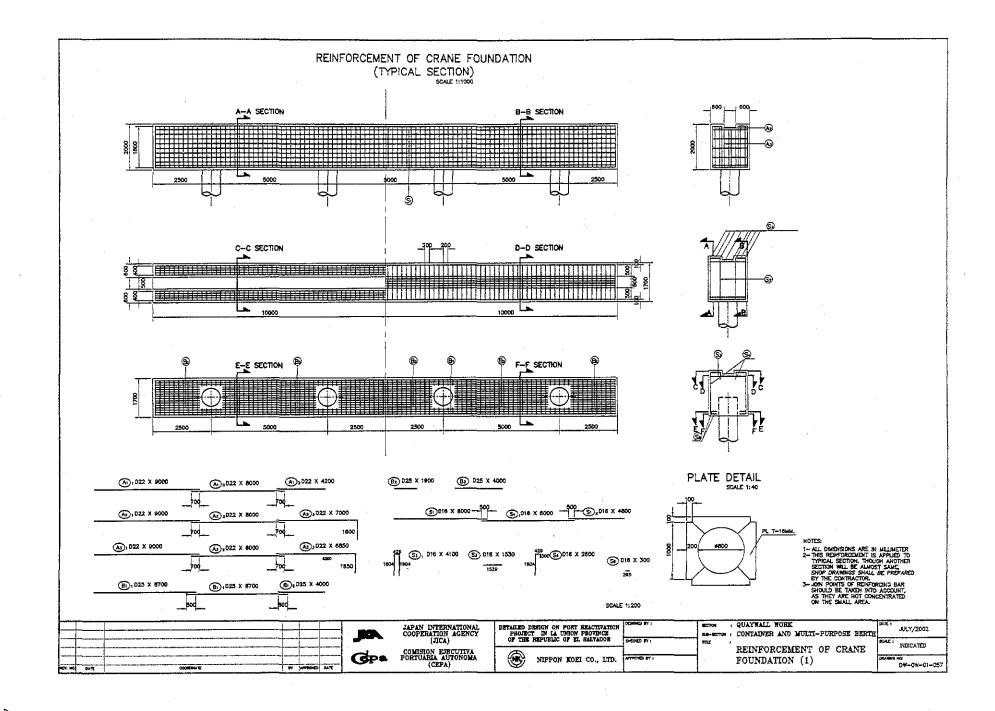
Steel plates will be used for connection between steel pipe pile and Re-bar,

References, Calculation Base and Revisions

References: Turder Drawings:

DW-QW-01-057 Reinforcement of Crone toundation (1)

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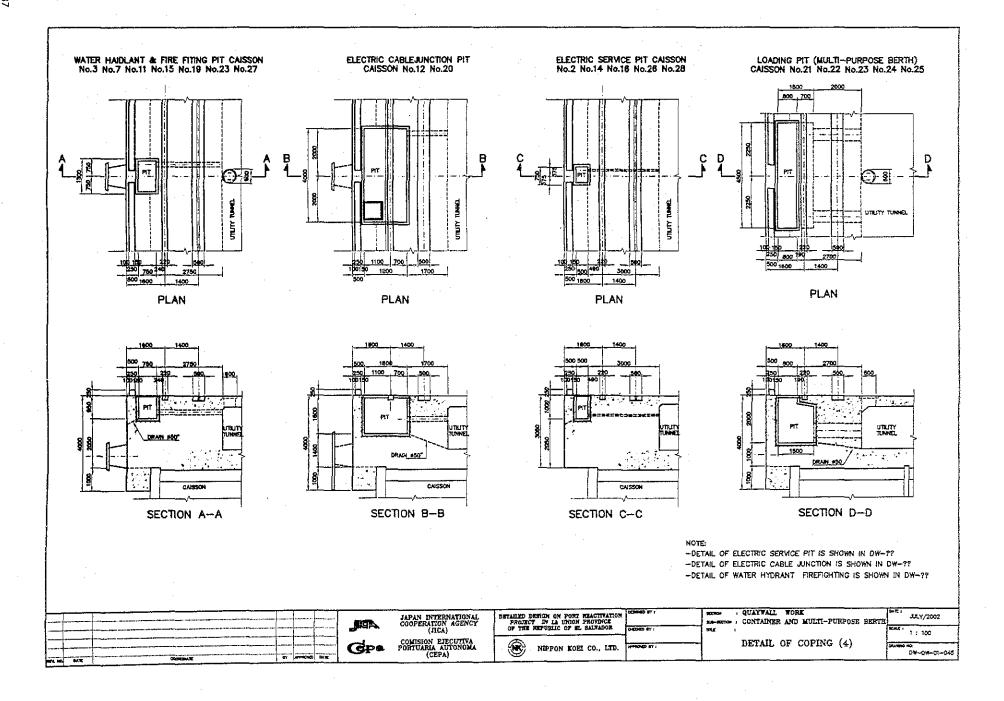
	QUANTITY CALCULATION C		
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	CONCRETE FOR CLANE RAIL FOUNDATION	Pay Item No. (BOQ)	28 - 1401
Quantity Item	Concrete (Container borth)	Unit	w ³

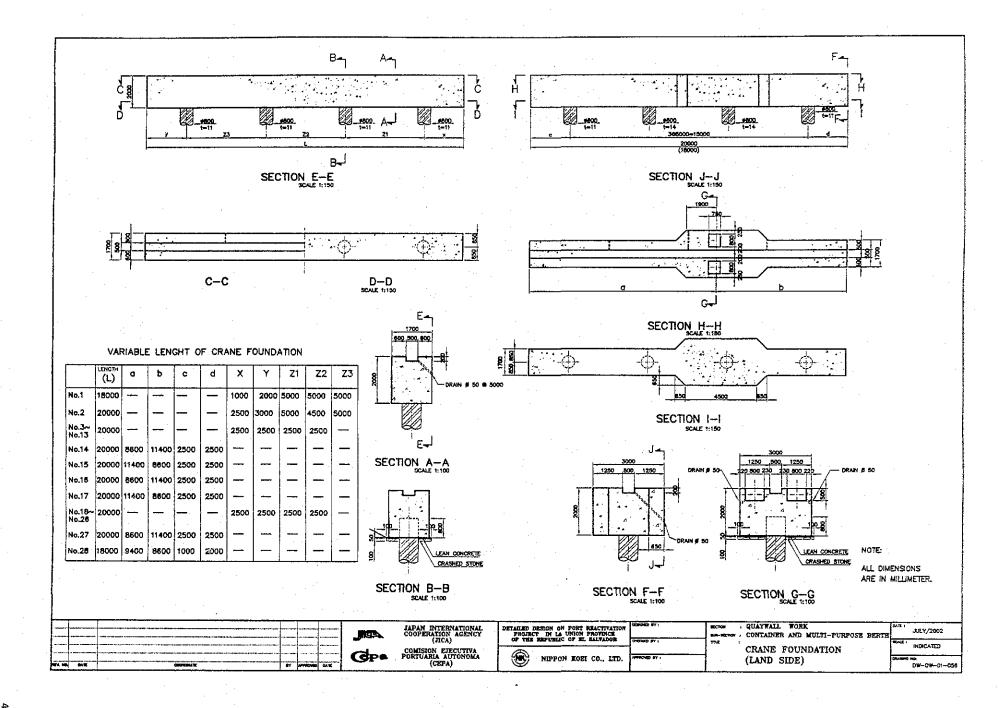
Concrete volume of crane rail foundation was computed on each type. Cane accessories were considered in the calculation. See the attached summary.

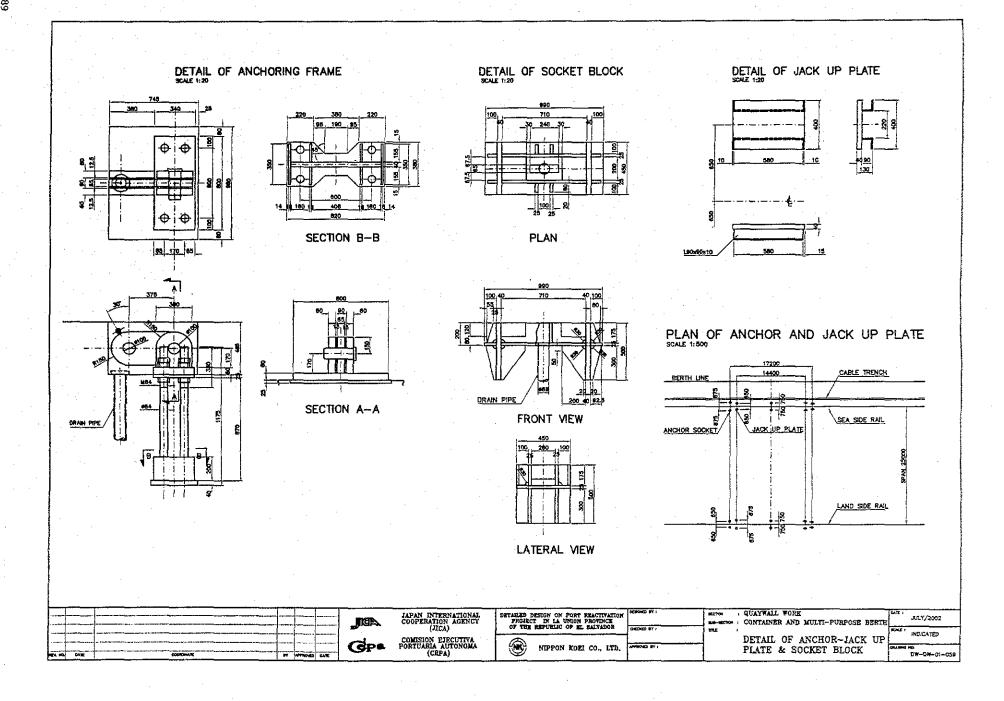
References, Calculation Base and Revisions

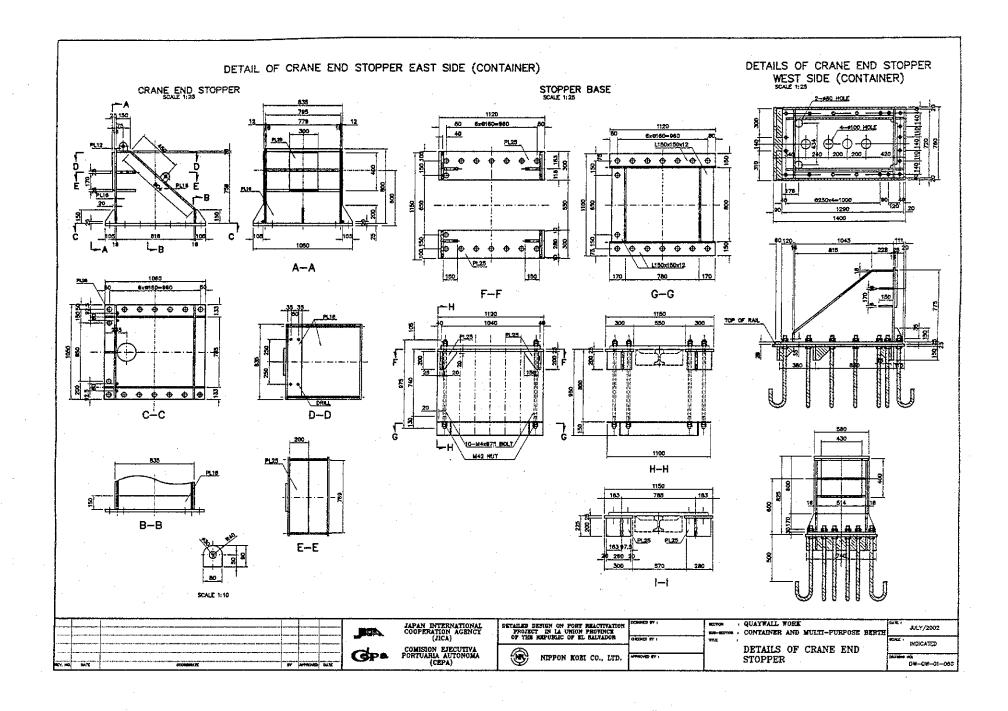
Refrances: Tinder Drawings.

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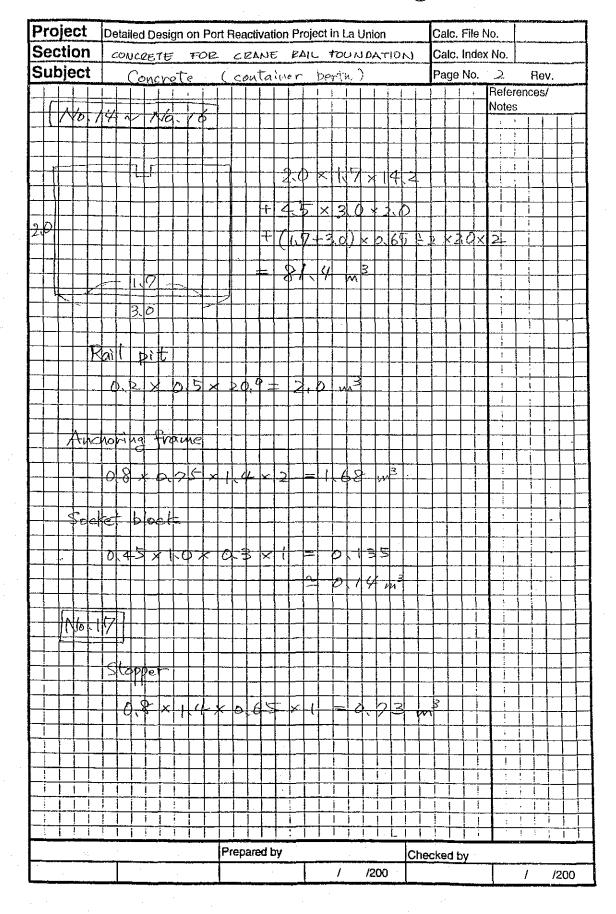
Concrete Volume of Crane Rail Foundation

		anch	oring frame soc	cket block	stopper	Volume
Container	No.1	56.3			0.73	55.6
Berth	No.2	66				66.0
	No.3	66				66.0
	No.4	66				66.0
	No.5	66				66.0
	No.6	66				66.0
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•	No.8	66				66.0
	No.9	66				66.0
	No.10	66				66.0
	No.11	66				66.0
	No.12	66				66.0
	No.13	66				66.0
	No.14	79.4	1.68	0.14		77.6
	No.15	_79.4	1.68	0.14		77.6
	No.16	79.4	1.68	0.14		77.6
•	No.17	79.4	1.68	0.14	0.73	76,9
	Total					1,160 m3
Multi~purpose		66		•	-	66,0
Berth	No.19	66				66,0
	No.20	66				66.0
	No.21	66				66.0
	No.22	66				66.0
	No.23	66				66.0
	No.24	66				66.0
	No.25	66				66.0
	No.26	66				66.0
	No.27	79.4	1.68	0.14		77.6
	No.28	79.4	1.68	0.14	0.73	76.9
	Total					750 m3

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	QUANTITY CALCULATION C		
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	CONCRETE FOR CRANE RAIL FOUNDATION	Pay Item No. (BOQ)	23-1402
Quantity Item	Elas Tigh Board (container both)	Unit	· M ²

Calculation Procedure Applied

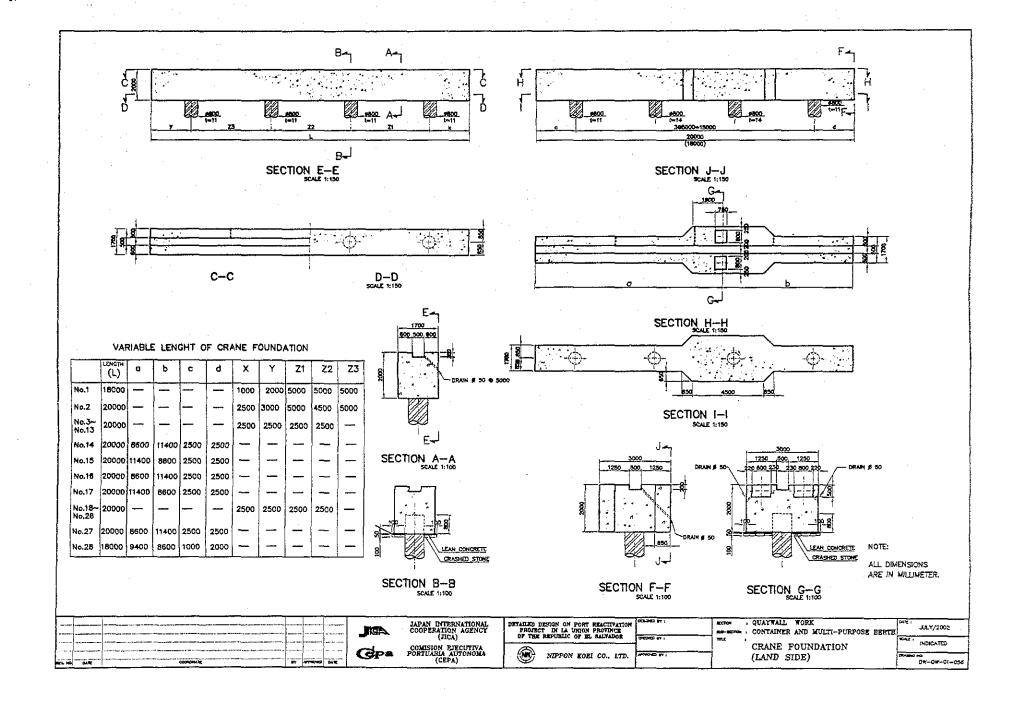
Elas Tigh Board will be used for construction joints.
This elas tigh board was computed for container berth.
based on every 20m pitch.

References, Calculation Base and Revisions

References: Tender Drawings:

DW-QW-01-056 Crone Foundation (land Side)

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	QUANTITY CALCULATION C		
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	CONCIDETE FOR CRANE PAIL RUNDATION	Pay Item No. (BOQ)	28-1403
Quantity Item	Reinforcement (Container berth)	Unit	t

Calculation Procedure Applied

Total weight of reinforcement for crane rail foundation was computed by using Excel.

This calculation was carried out based on typical section.

References, Calculation Base and Revisions

References: Tender Drowings:

DW-QW-01-057 Reinforcement of Crone toundation
(1)

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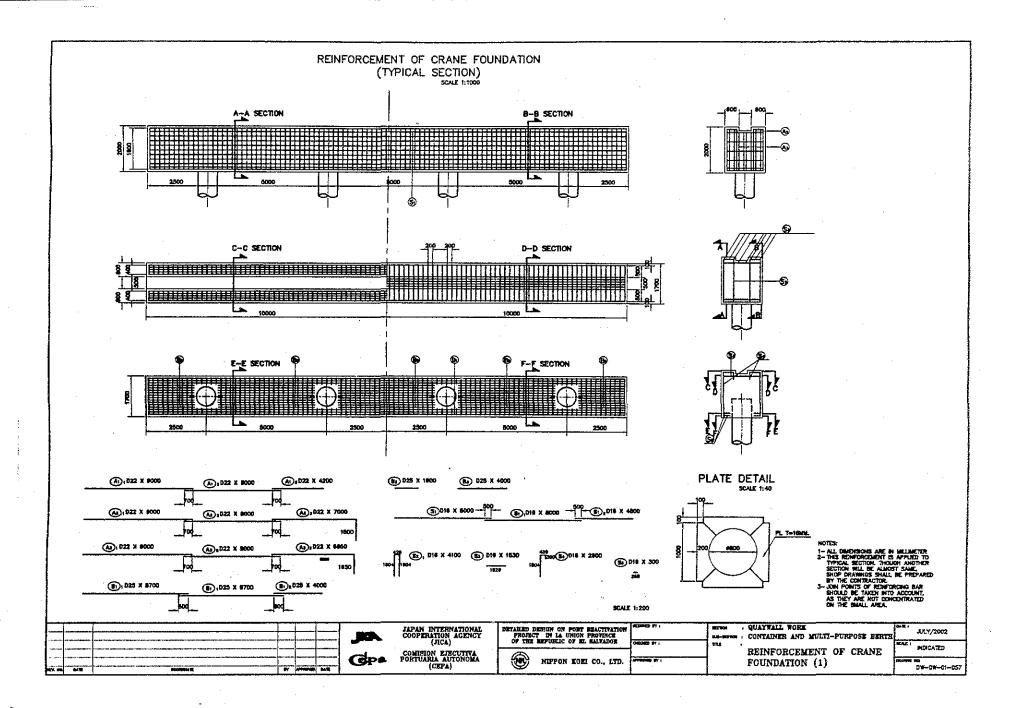


TABLE OF REINFORCEMENT

No.	D	L (m)	Qty	W/bar (kg)	W (kg)	Remarks
۸1-1	D22	9.00	8	27.36	218.88	
A1-2	D22	8.00	8	24.32	194.56	
A1-3	D22	4.20	8	12.768	102.144	
A2-1	D22	9.00	4	27.36	109.44	
A2-2	D22	8.00	4	24.32	97.28	
A2-3	D22	7.00	4	21.28	85.12	
A3-1	D22	9.00	4	27.36	109.44	
A3-2	D22	8.00	4	24,32	97.28	
A3-3	D22	6.85	4	20.824	83.296	
B1-1_	D25	8.70	24	34.626	831.024	
B1-2	D25	4.00	12	15.92	191.04	
B2	D25	1.90	40	7.562	302.48	
В3	D25	4.00	60	15.92	955.2	
S1-1	D16	8.00	32	12.48	399.36	
S1-2	D16	4.80	16	7.488	119.808	
S2	D16	4.10	160	6.396	1023.36	
S3	D16	1.53	260	2.3868	620.568	
S4	D16	2.60	40	4.056	162.24	
S5	D16	0.30	80	0.468	37.44	
		<u> </u>		Total / Block	5740.0 kg	
	Container	Berth	17 Block	Total	97.60 t	
	Multi-purp	ose Berth	11 Block	Total	63.20 t	
						
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	QUANTITY CALCULATION C		
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	CONCECTE FOR CRANE BAIL FOUNDATION	Pay Item No. (BOQ)	2B - 1404
Quantity Item	Form (Container benth)	Unit	M 2

Calculation Procedure Applied

Form for crane rail foundation was computed for every type of container berth. Irane accessories were considered in the calculation (Refer to attached summary.)

References, Calculation Base and Revisions

Refinences: Tunder Drowings:

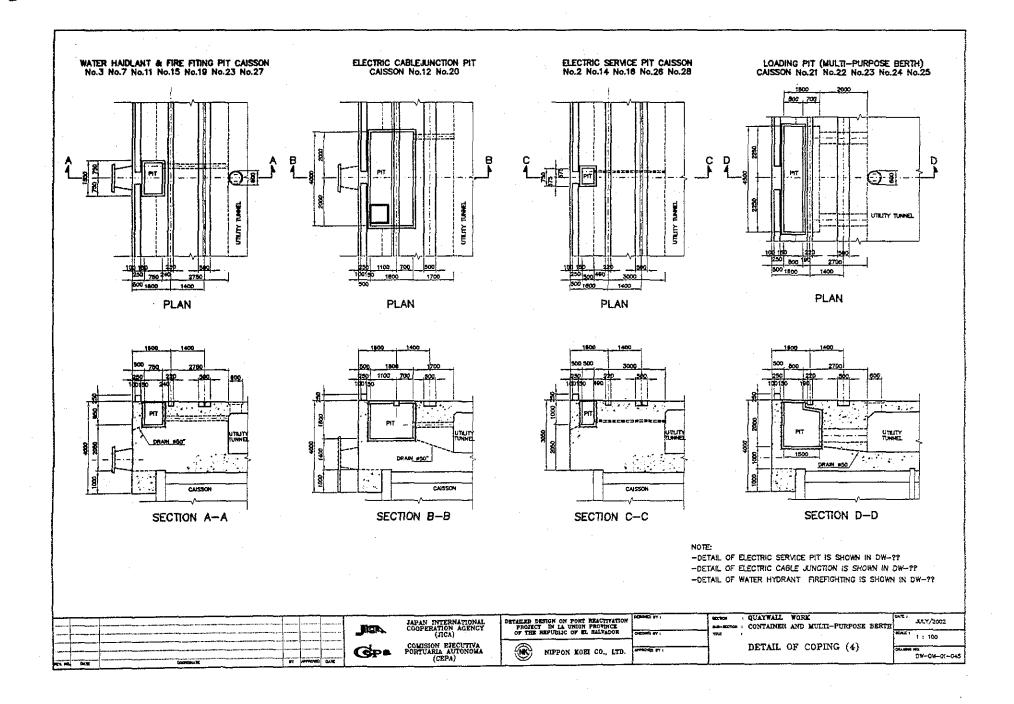
DNI - QNI - 01 - 045 Detail of Coping (4)

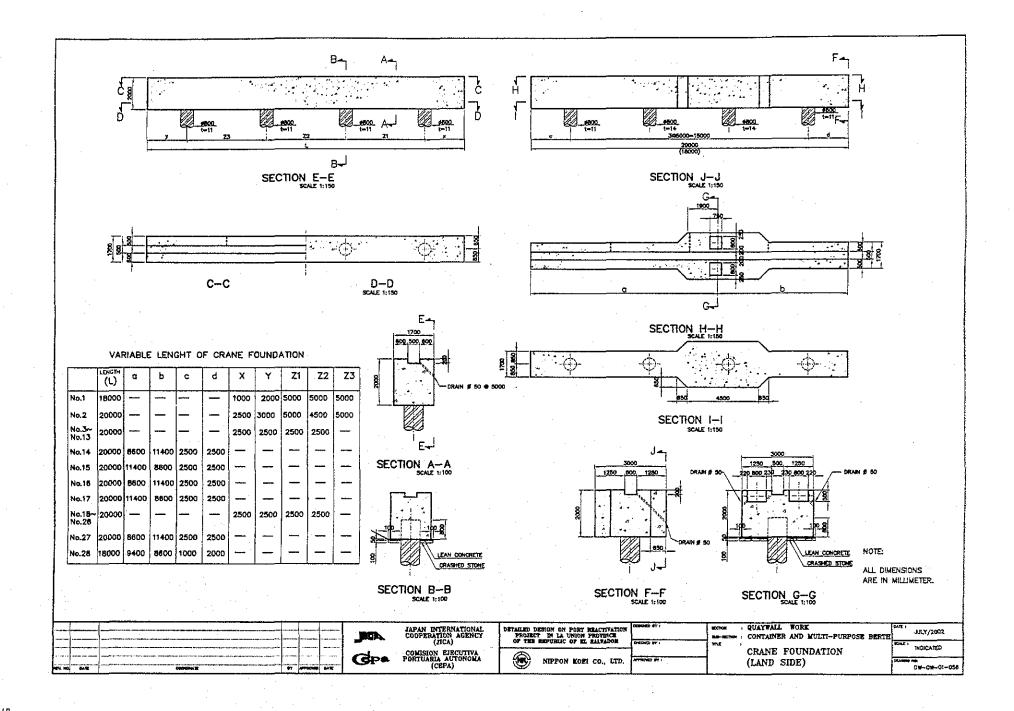
CNI - QNI - 01 - 056 Grance toundation (land Side)

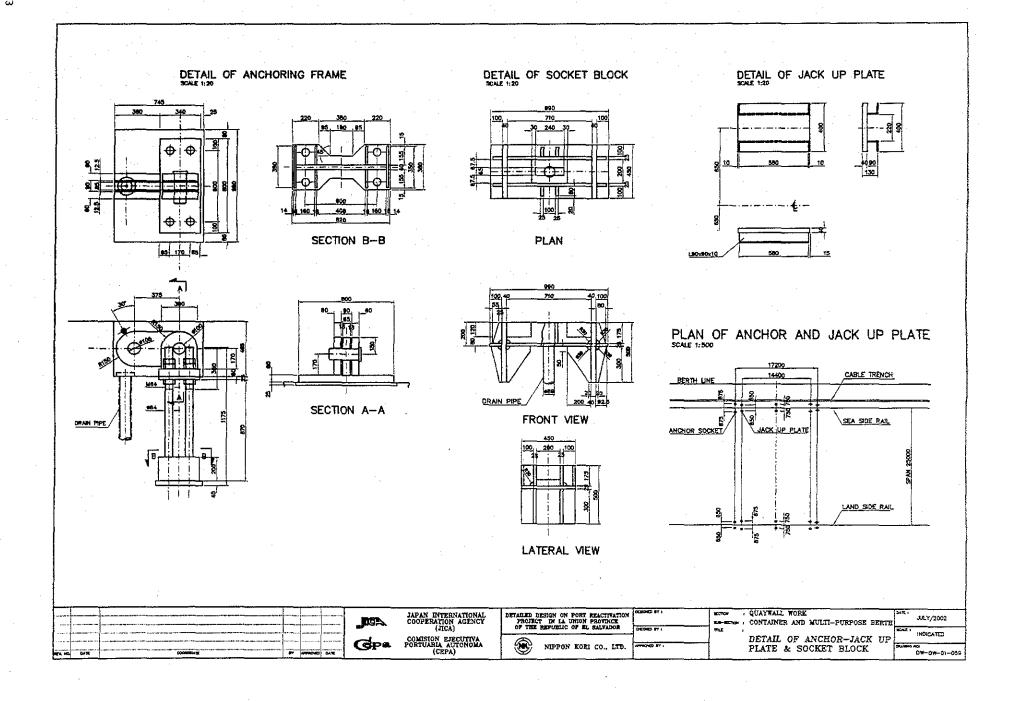
DNI - QNI - 01 - 059 Detail of Jachor - Jack up Plake & Socket Block

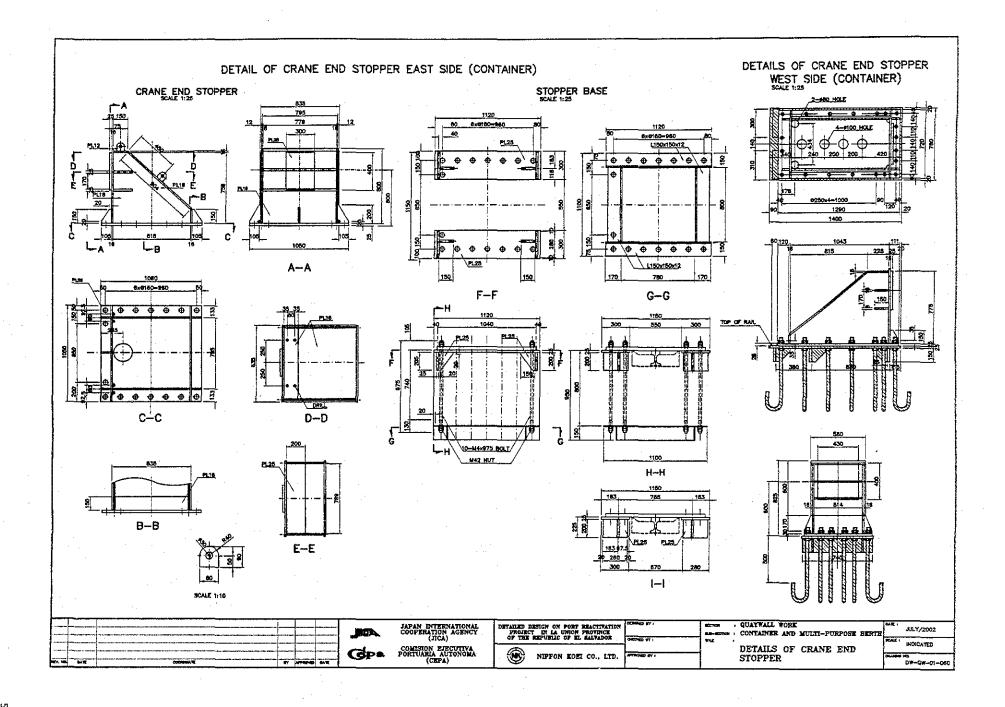
CNI - QNI - 01 - 060 Details of Crance End Shapper

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Form of Crane Rail Foundation

		anch	oring fram: so	cket block	Stopper	sqm
Container	No.1	77.5			2.86	80.4
Berth	No.2	88				88
•	No.3	88				88
	No.4	88				88
	No.5	88				88
	No.6	88				88
	No.7	88				88
*	No.8	88				88
	No.9	88				88
	No.10	88				88
•	No.11	88				88
	No.12	88				88
	No.13	88				88
	No.14	90.2	8.68	0.87		99.8
	No.15	90.2	8.68	0.87		99.8
	No.16	90.2	8.68	0.87		99.8
	No.17	90.2	8.68	0.87	2.86	102.6
	End Block					.0
	Total					1,540 m2
•	•					
Multi-purpose		88				88
Berth	No.19	88				88
	No.20	88	`. 	<u>. </u>		88
	No.21	88				88
	No.22	88				88
	No.23	88				88
	No.24	88				88
	No.25	88				88
	No.26	88				88
•	No.27	90.2	8.68	0.87		99.8
	No.28	82.5	8.68	0.87	2.86	94.9
	End Block					0
٠	Total					990 m2

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