	QUANTITY CALCULATION C	OVER SHEET	
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	STEEL PIPE PILE FOR CRANE PAIL FOUNDATION	Pay Item No. (BOQ)	2c-1301
Quantity Item	STEEL PIPE PILE	Unit	Nos .

Pile length and weight was composed for each type of pile, including diameter and thickness.

Length was computed by Intelligad and multiplied to the total number of pile in Multipurpose Berth.

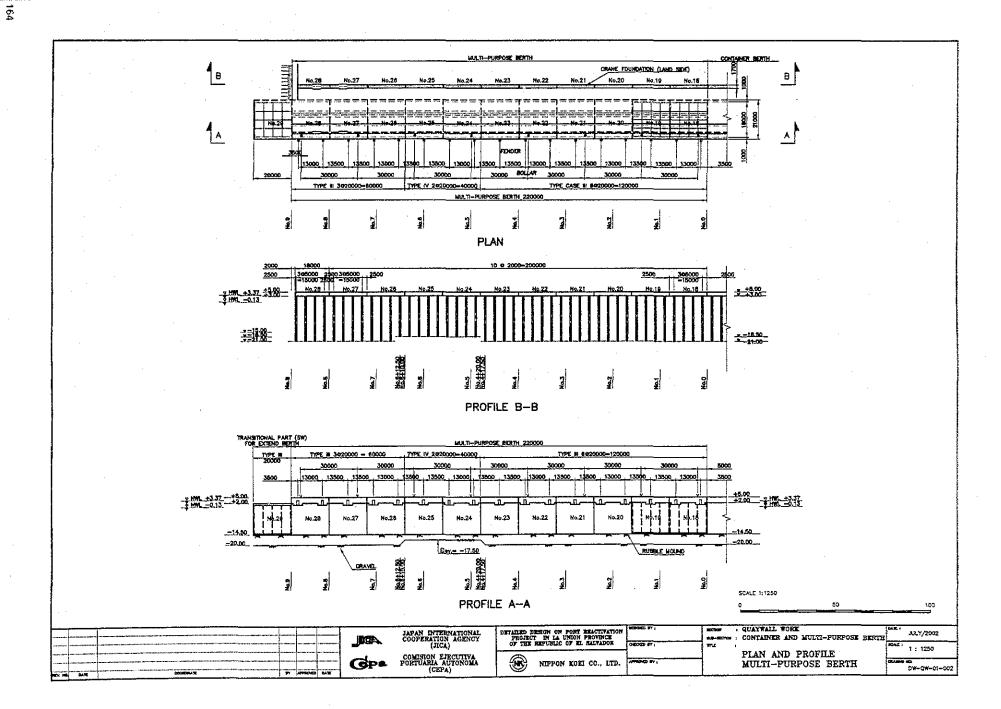
The unit and total weight for each type of pile was computed using Weight Tololes.

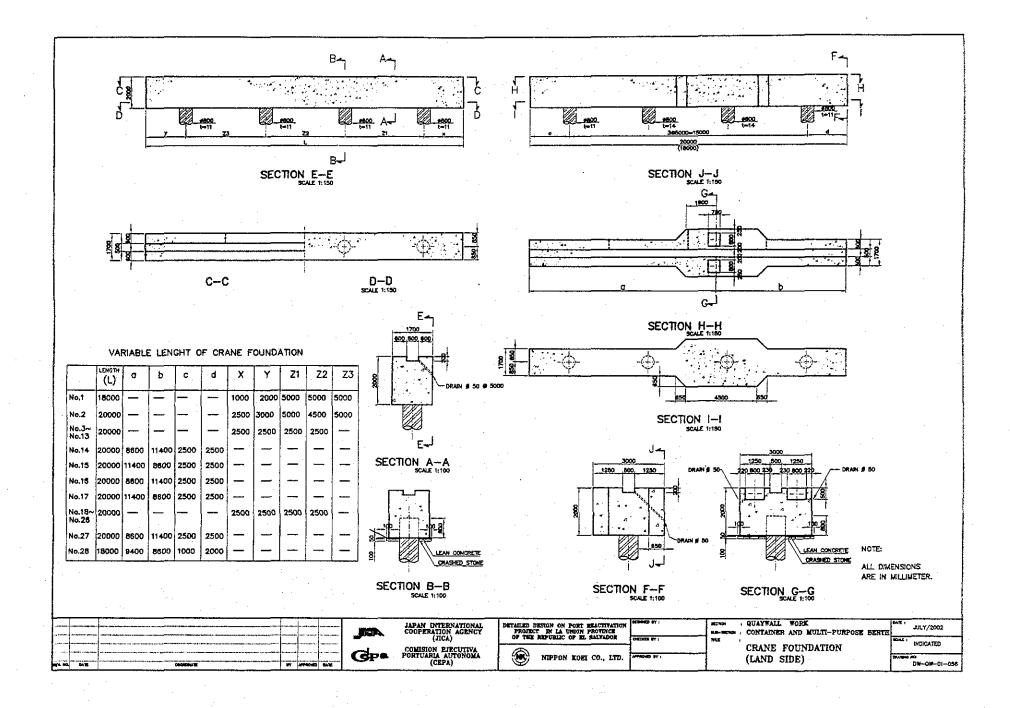
References, Calculation Base and Revisions

References: Tinder Drawings:

- DW-QW-01-002 Plan and Profile Multipurpose Berth
-DW-QW-01-056 Crone Foundation (land Side)

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	QUANTITY CALCULATION C	OVER SHEET	
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	STEEL APE ALLE FOR CHANE PAIL FOUNDATION	Pay Item No. (BOQ)	2C-1302
Quantity Item	STEEL PLATE	Unit	Va :

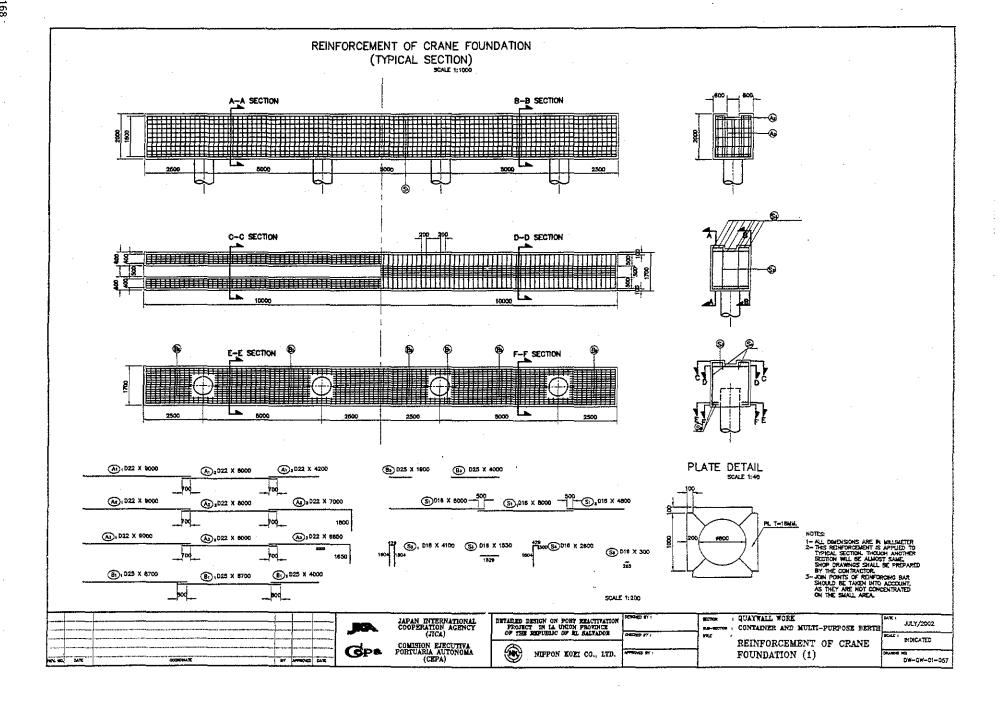
Steel plaks will be used for connection between steel pipe pile and te-bar.

References, Calculation Base and Revisions

References: Tinder Drowings:

DIN - aN - 01 - 057 Reinforcement of Grone Foundation (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 CRANE BAIL FOUNDATION	Pay Item No. (BOQ)	ac-1401
Quantity Item	Concrete (Multi-burpose berth)	Unit	M ₃ .

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

References, Calculation Base and Revisions

Returnces: Tindir Drowings:

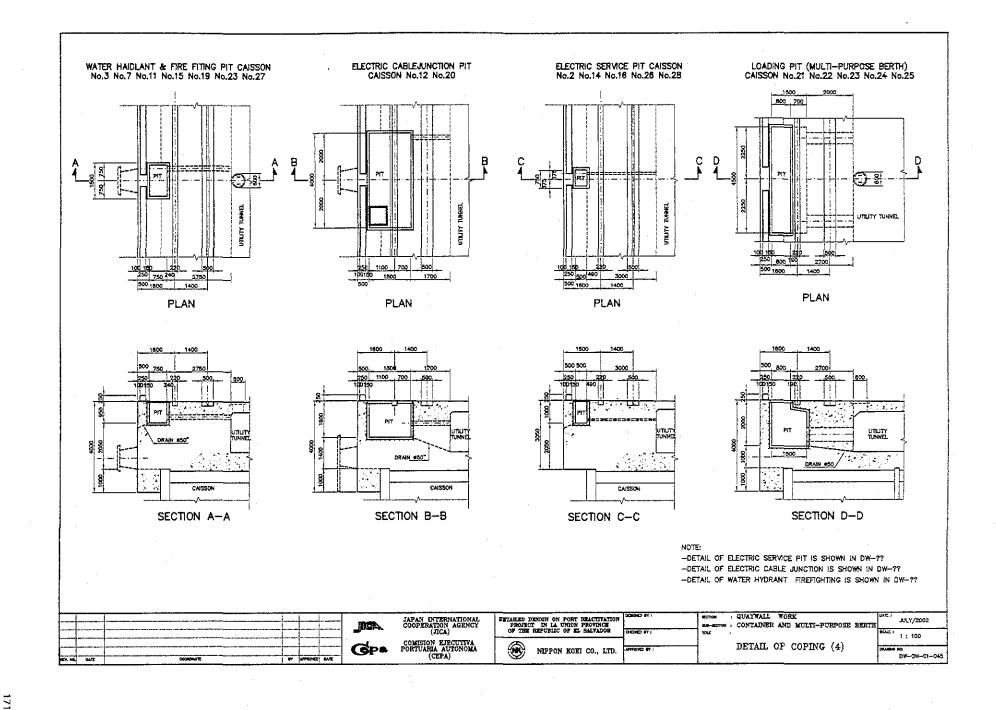
DW_QN - 01 - 045 Detail of Coping (4)

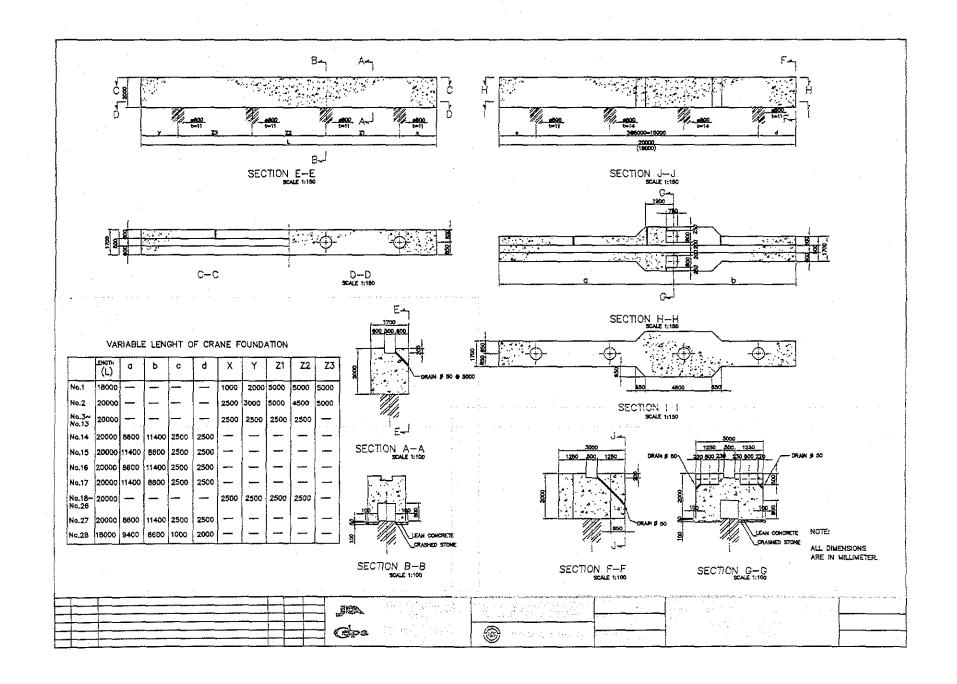
DW_QN - 01 - 056 Cronc taundation (lond Side)

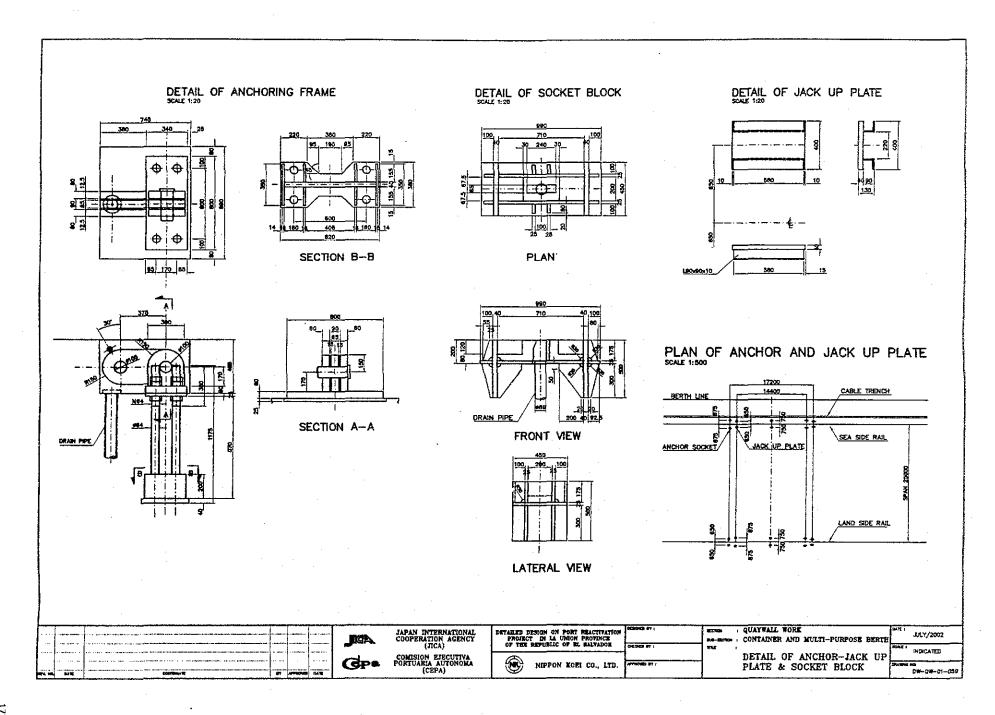
ow-aw-01-059 Detail of Anchor-Tock up Plate

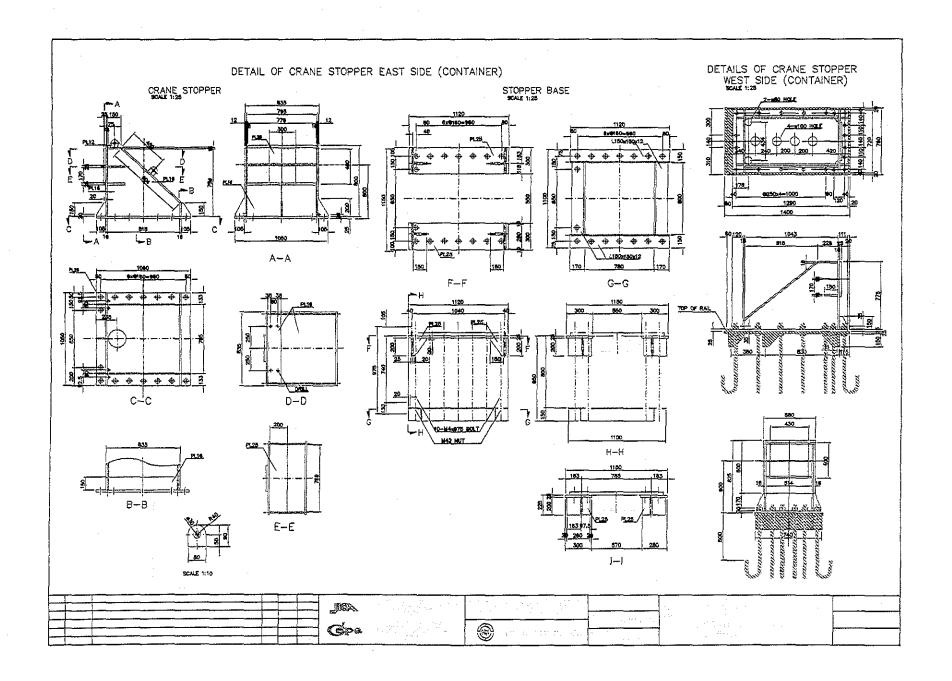
DW-QW-01-060 Demil of Cronc End Shopper.

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Concrete Volume of Crane Rail Foundation

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			a	nchoring frame	socket 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
	No.7		66			-	66.0
	No.8		66				66.0
	No.9		66				66.0
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	No.15		79.4	1.68	0.14	4. 6.5	77.6
	No.16		79.4	1.68	0.14	· · ·	77.6
	No.17		79.4	1.68	0.14	0.73	76.9
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	No.27		79.4	1.68	0.14	1 12	77.6
	No.28		79.4	1.68	0.14	0.73	76.9
	Total						750 m

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	QUANTITY CALCULATION C		
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Cade	JC1N004/2N001
Work Section Title	CONCRETE FOR CRANE RAIL FOUNDATION	Pay Item No. (BOQ)	20-1402
Quantity Item	Elas Tigh Board (Multi-purpose berth)	Unit	щ.

Elas tigh board will be used for construction joints.

This calculation was computed for Multi-purpose benth based on every 20 m pitch.

References, Calculation Base and Revisions

References: Tender Drowings:

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

(Some 95 "Concrete" (Concrete for Crone Rail Foundation))

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	QUANTITY CALCULATION COVER SHEET								
Project	Project Detailed Design on Port Reactivation Project project Code JC1N004/2N0								
Work Section Title	CONCRETE FOR CRANE RAIL FOUNDATION	Pay Item No. (BOQ)	2c - 1403						
Quantity Item									

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

This calculation was carried out based on typical outland

References, Calculation Base and Revisions

Remance: : Tradic Drowings :

1W - QVI - 01 - 057 Removement of Cross Foundation (1)

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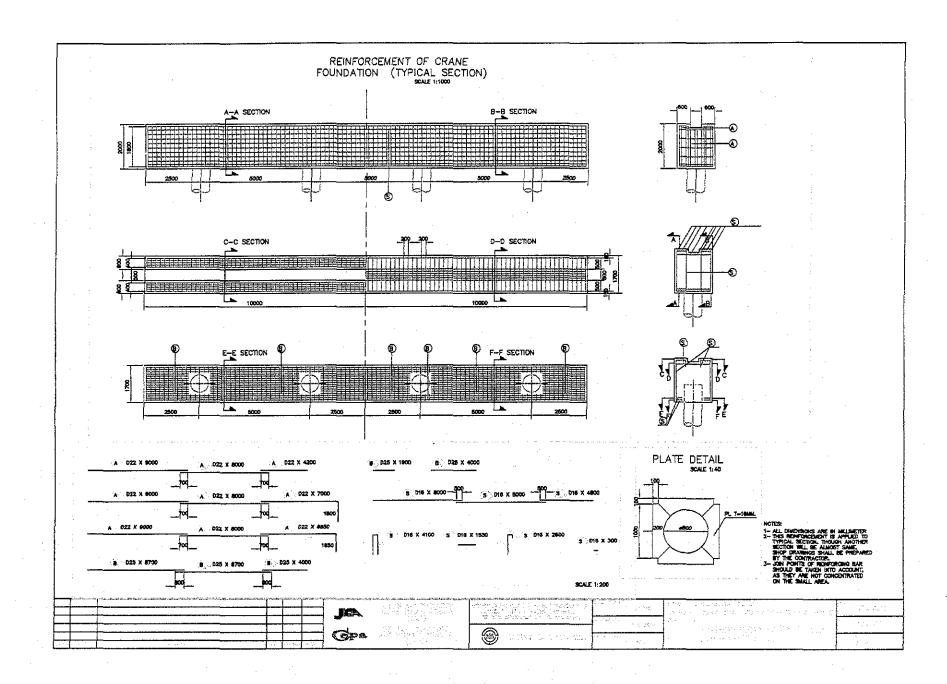


TABLE OF REINFORCEMENT

No.	D	L (m)	Qty	W/bar (kg)	W (kg)	Remarks
A1-1	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	
Λ2-2	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	
B3	D25	4.00	60	15.92	955.2	
S1-1	D16	8.00	32	12.48	399.36	<u></u> _
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	
				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 COVER SHEET							
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001					
Work Section Title	CONCRETE FOR ERANE RAIL TOUNDATION	Pay Item No. (BOQ)	2C-1404					
Quantity Item	Form (Multi-burges bertly)	Unit	m ²					

Form for crome rail foundation was computed for every type of Multi-purpose berth. Crane accessories were considered in the calculation. (Refer to attached summary.)

References, Calculation Base and Revisions

Exercises: Tester Ensurers:

Sin - (N - 01 - 04 & Devail of Coping (4)

EN - QN - 01 - 063 Crace Foundation (land Eite)

EN - QN - 01 - 063 Detail of Anchor - Jack up Plate & Sockel Block

EN - QN - 01 - 063 Detail of Grane End Stopper

(Some as Converte (Concrete for Crone Earl territories))

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Form of Crane Rail Foundation

		ancho	ring fram	socket 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 m
• • • • •				•	•	
Multi-purpose		88		·		88
Berth	No.19	88				88
	No.20	88	· · ·			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
	Total	÷				990 m

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	QUANTITY CALCULATION COVER SHEET							
Project Detailed Design on Port Reactivation Project project Code JC1N004/2N001								
Work Section Title	CONCRETE FOR COANE RAIL FOUNDATION	Pay item No. (BOQ)	2C - 1405					
Quantity Item	Crushed Stone	Unit	M³ ·					

Volume of crushed stone for crane rail foundation was computed based on 10cm thick.

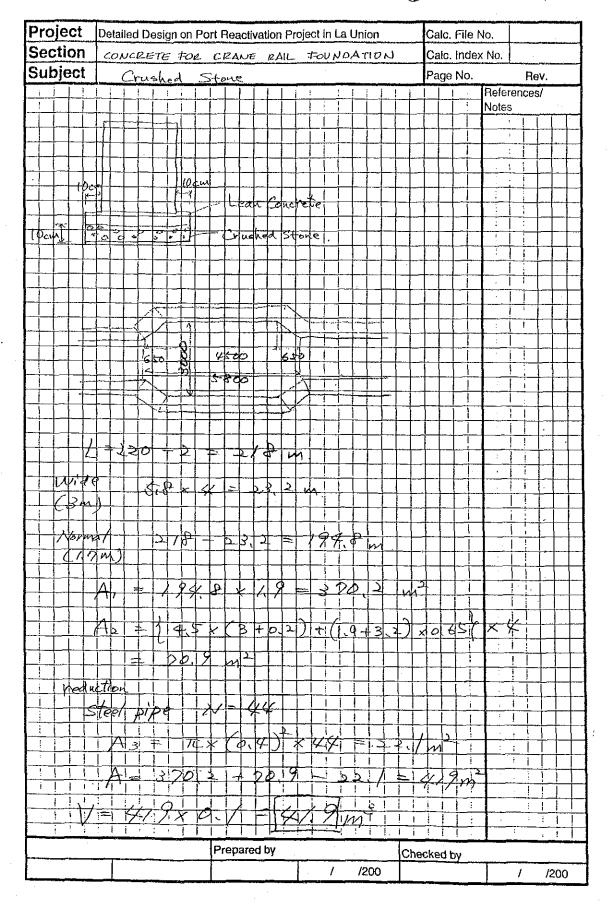
References, Calculation Base and Revisions

Returnes: Tender Drowings:

DW-QW-01-056 Crone toundation (lond Side)

(Some as Concrete (Concrete for Crone Roul toundation))

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Work Section Title	CONCRETE FOR CAME PAIL FOUNDATION	Pay Item No. (BOQ)	2C - 1906						
Quantity Item	Leveling of Crushed Stone	Unit	w ²						

As area of leveling of crushed stone was the same as crushed stone, calculation was omitted in this part.

References. Calculation Base and Revisions

References: Tender Drowings:

DNJ - aN - 01 - 056 Crone toundation (land Side)

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Work Section Title	CONCRETE FOR CRANE RAIL FOUNDATION	Pay Item No. (BOQ)	2C-1407
Quantity Item	Lean Concrete	Unit	мз

Volume of lean concrete was computed by using the same area as crushed stone.

Thickness was to be som.

References, Calculation Base and Revisions

Refores: Tinder Drowings:

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

(Some as "Concrete" (Concrete for Crone Rail toundation))

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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 BAIL FOUNDATION	Pay Item No. (BOQ)	2C - 1408
Quantity Item	CRANE DRAIN PIPE	Unit	Lm ·

Crane drain pipe was computed multiplying the length of crone pipe to the number of pipe contained in oris crone and multiplied to the total of coissons in Container and itallipurpose Besth. The length was computed with zero decimal for total.

Reference: Tinder Drawing DW-QW-01-03/154 Cone Foundation (lond Side) (Some as "Concrete" (Concrete for Crone Roil Foundation))

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	QUANTITY CALCULATION C	OVER SHEET	
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	Crane Rail with Accessories	Pay Item No. (BOQ)	2C -1501
Quantity Item	Chane Rail with Accessories	Unit	M

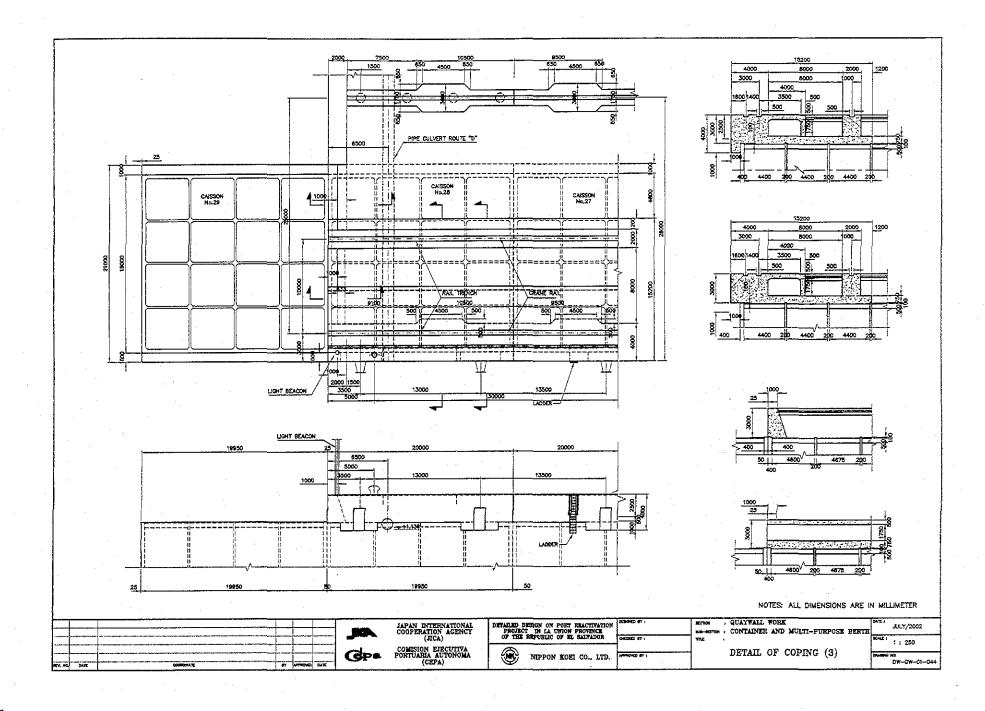
Length of crane rail was computed for Multi-purpose Berth.

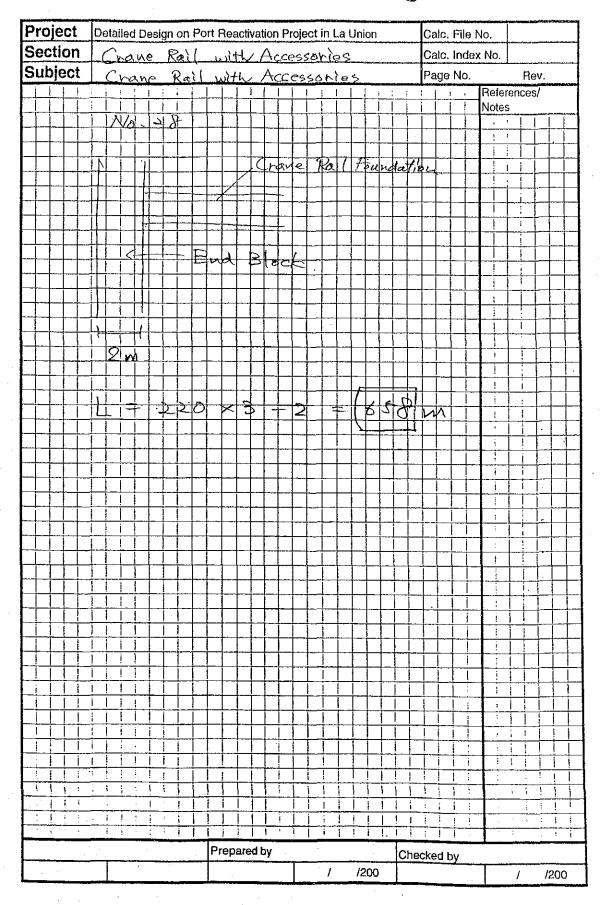
References. Calculation Base and Revisions

References: Tender Drowings:

bw-aw-01-044 Detoil of Coping (3)

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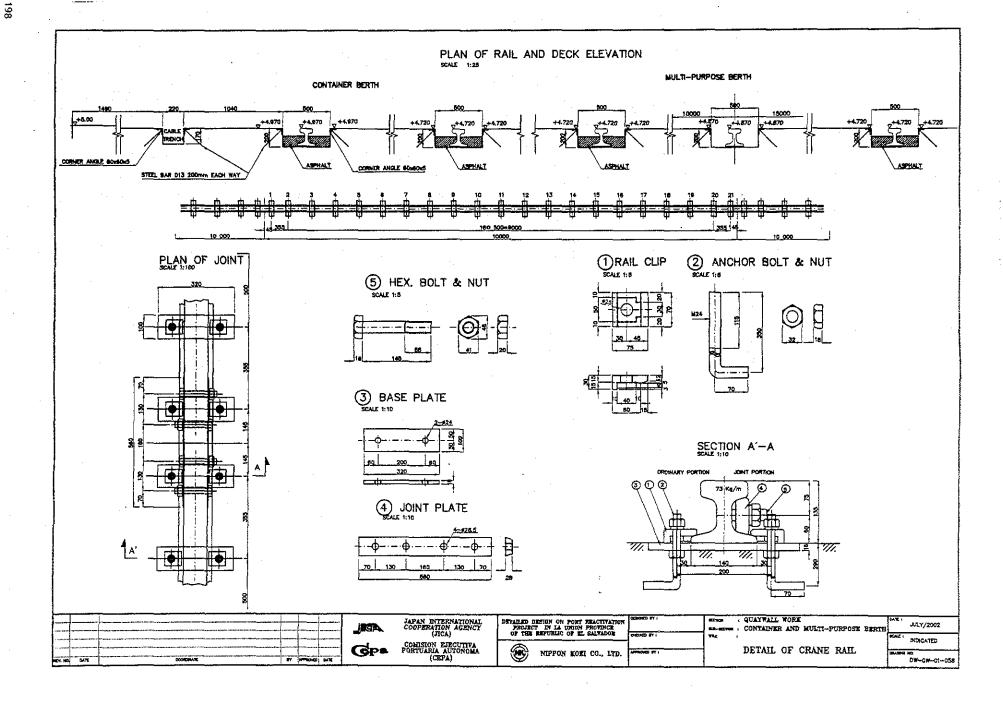
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Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	Chane Rail with Accessories	Pay Item No. (BOQ)	2C-1502
Quantity Item	Asphalt Mixtune	Unit	w _s .

Volume of asphalt mixture was computed by multiplying typical section area by length.

References, Calculation Base and Revisions

Fremoces. Tender Drowings: 14-24-01-058 Deboil of Crore Zoil

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QUANTITY CALCULATION COVER SHEET													
Project Detailed Design on Port Reactivation Project in La Union Province Project Code JC1N004/2N001													
Work Section Title	Crane Rall with Accessories	Pay Item No. (BOQ)	RC-1503										
Quantity Item		Unit	ka :										
Calculation Procedure Applied Weight of corner angle for crone rail was computed by multiplying unit weight by length.													

Tender Drowings:

Detail of Crone Kail (Some as "Asphalt Hixture" (Cone Roil with Accessores))

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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	Crane Rail with Accessories	Pay Item No. (BOQ)	2C-1504
Quantity Item	Re – Bar	Unit	kg .

Weight of re-bar for crane rail was computed by multiplying unit weight by total length. Re-Bar was to be welded with corner angle.

References, Calculation Base and Revisions

Reterence: Timber Drowings:

DW-QW-01-058 Detail of crone Roll

(Some as Asphalf Hixbur (Crone Roll with Accessories))

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Subject Re-Bar. Page No. Rev. References/ Notes No		Chane Rail	with Accessories	Calc. Index	(No.
References/Notes Corner angle C= 1/376 m. Re Bar pitch 200 = 160 m. M = 1316 = 0, 2 = 0 = 160 m. D13 0.099 = 10 m. M = 0995 x 16 45 = 1/86, 3 m. M = 0995 x 16 45 = 1/86, 3 m.	Subject				
Corner angle 2 = 1576 m. Rethan pitch 20 m. A = 0.25 cm. N = 1376 = 0.2 = .0.50 L= 0.45 × 6.50 = .16 M. D13 0.499 & M. W = 0.995 × .16 M.				1 1 1 1 1 1 1 1 1	
Corner angle 2 = 1376 m. Re-Bat pitch 200 m. A = 0.25 cm. N = 1316 20.2 = 2500 L = 0.24 × 6500 = 1685 m. D13 2,999 62 /m. W = 0.995 × 1695 = 1626, 5					
Retain pitch 200m a = 0.25 cm V = 1316 = 0.2 = 0.50 L = 0.25 x 6 + 80 = 16 + 5 m D13 a 999 & 16 + 5 m W = 0.995 x 16 + 5 = 16 + 6 + 5	++++	Corner and	b 1 4 = 1/376		
M= 1316 = 0.2 = 350 = ./6 & 5 m. D/3 2.999 & W= 0.995 × 16 & 5 = 1636.3					╉·························
M= 1316 = 0.2 = 350 = ./6 & 5 m. D/3 2.999 & W= 0.995 × 16 & 5 = 1636.3		RetBar pite	\$ 20cm		
M= 13/6 = 0.2 = .250. L= 0.25 × 6.50 = ./6 & 5 m D/3 0.99 & m W= 0.99 × 16 & 5 = 16.86.8			} 		▋
N=1316 + 0.1 = 0.50 m L=1216 + 0.1 = 0.50 m D13 0.999 / m W=0995 × 1645 = 1636, 3	 	0 - 6 25 du	* 		
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	QUANTITY CALCULATION C		
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Work Section Title	Cable Trench	Pay Item No. (BOQ)	2C-1601
Quantity Item	Corner Angle	Unit	kg.

Weight of corner angle for cable trench was computed by multiplying unit weight by total length.

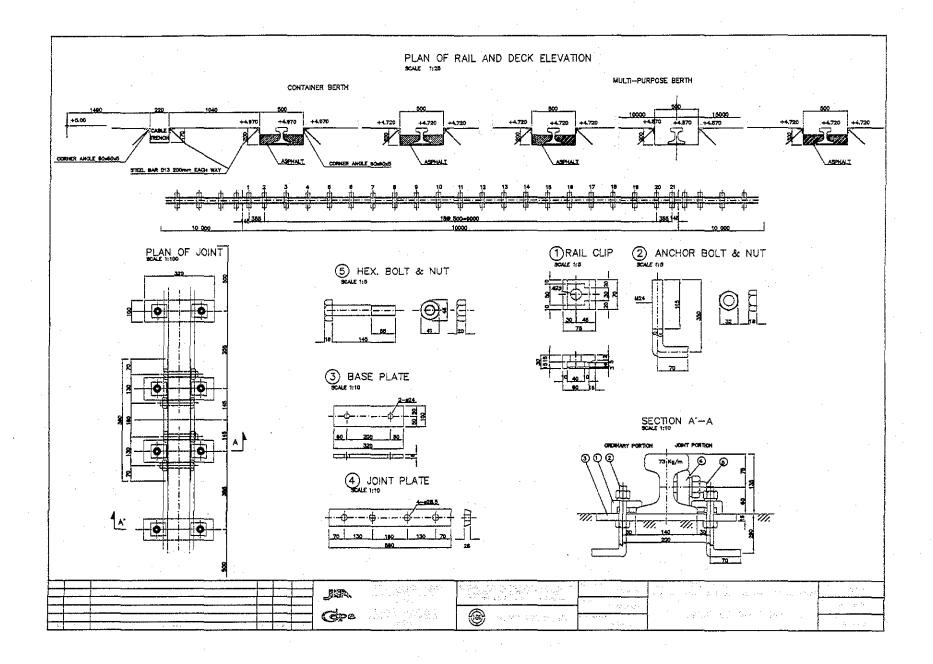
Peferences, Calculation Base and Revisions

Reformes: Tender Drowings:

DW-QW-01-042 Detail of Coping (1)

DW-QW-01-058 Detail of Crone Roil

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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	Cable Trench	Pay Item No. (BOQ)	20-3602
Quantity Item	Re-Bar	Unit	Fg.

Weight of re-bar for cable trench was computed by multiplying unit weight by total length. Re-bar was to be welded with corner angle.

References, Calculation Base and Revisions

Refrances: Tender Drowings:

DW-QW-01-058 Detail of Crone Roll

(Some as Corner Angle (Coble Trench))

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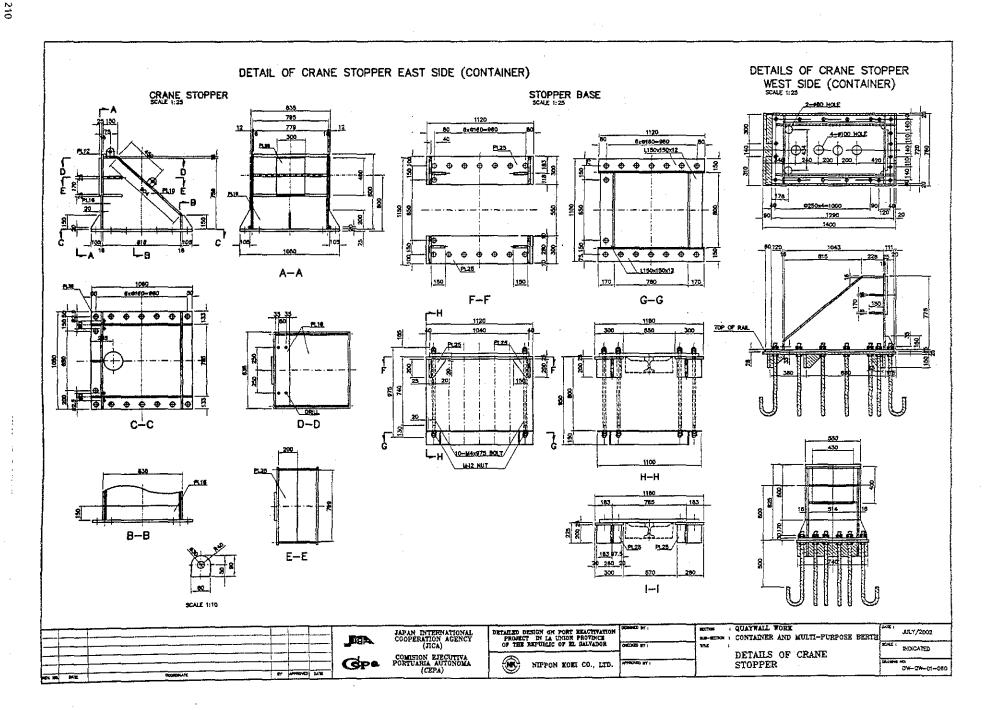
	QUANTITY CALCULATION C		
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	End Stapper	Pay Item No. (BOQ)	2C - 1701
Quantity Item	Sand "	Unit	. M3

2 holes were to be prepared for End Stopper and to be filled with sand until End stopper will be set.

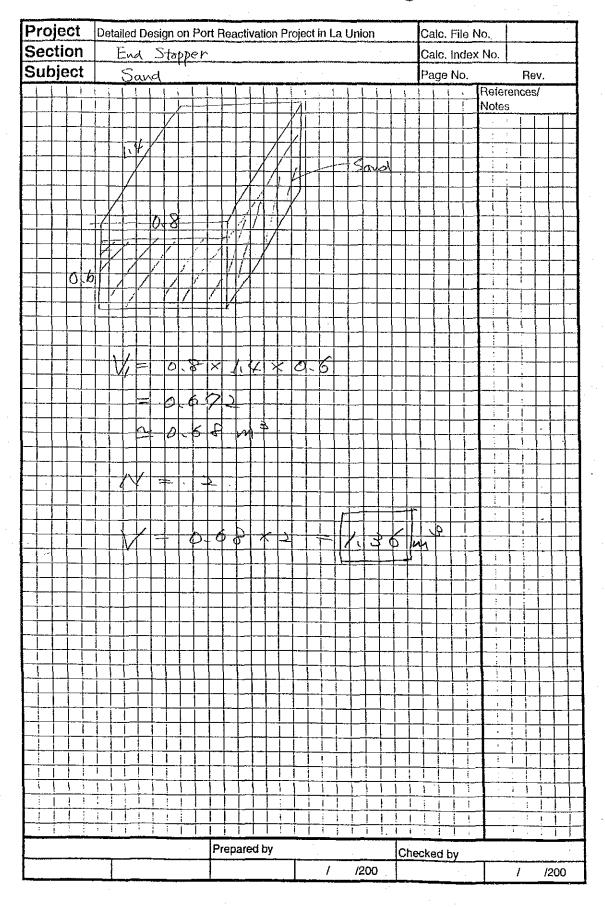
References, Calculation Base and Revisions

References: Tender Drowings: DW- aW-01-060 Deloils of Crone End Stopper

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Work Section Title	End Stopper	Pay Item No. (BOQ)	20-1702
Quantity Item	Form for cover	ปnit	M ² .

Area of form for cover was computed. This cover was to be soparated into 2 parts.

References, Calculation Base and Revisions

Refrances: Tender Drowings:

ON - QW-01-060 Detroils of Crone End Stopper

(Some as Sond (End Stopper))

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Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	End Stopper	Pay Item No. (BOQ)	20-1703
Quantity Item	Concrete for Over	Unit	M ^B

Volume of concrete for cover was computed.

References, Calculation Base and Revisions

Retrances: Tender Drowings:

DW-QW-01-060 Details of Crone End Stopper

(Some as Sond (End Stopper))

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Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	End Stopper	Pay Item No. (BOQ)	20-1704
Quantity Item	Angle	Unit	Fg.

Weight of angle was computed for cover of End Stopper hole by multiplying unit weight by length.

References, Calculation Base and Revisions

Remnies: Tinder Travinas:

DW-QN-01-060 Details of Crone End Shapper

(Some Sond (End Shapper))

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Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	End Stopper	Pay Item No. (BOQ)	2C -1705
Quantity Item	Re – Bar	Unit	łą.

Weight of re-bar was computed by multiplying unit weight by length.

References, Calculation Base and Revisions

Retirences: Tender Drowings:

Details of Crone End Stopper

(Some as Sond (End Stopper))

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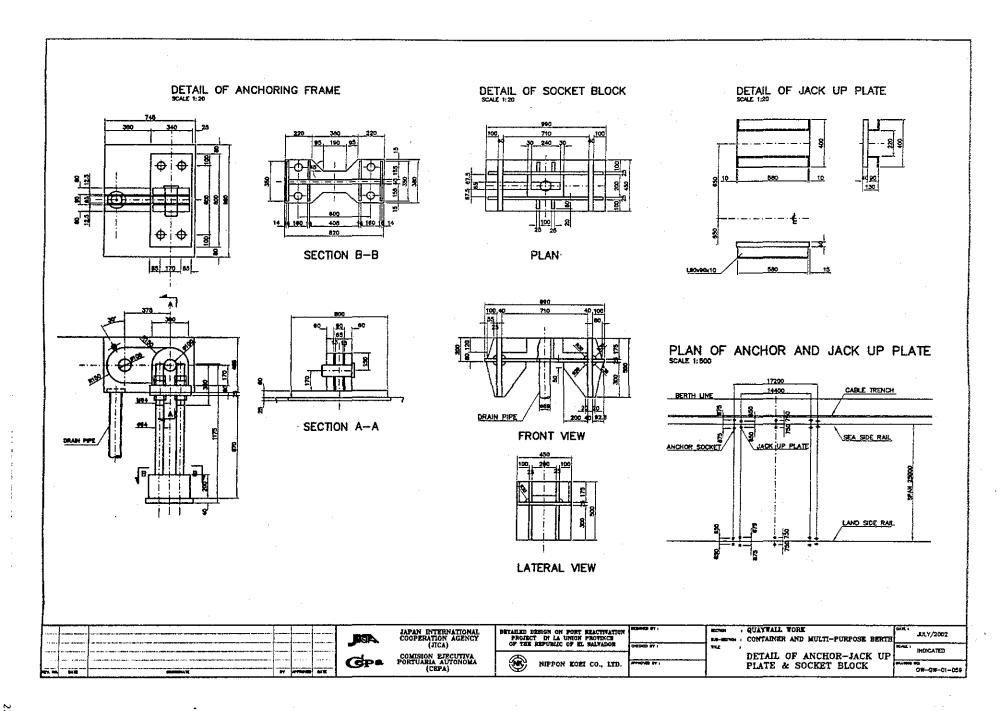
	QUANTITY CALCULATION C		
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	Socket block	Pay Item No. (BOQ)	2C-1801
Quantity Item	Sand	Unit	$M_{\overline{S}}$.

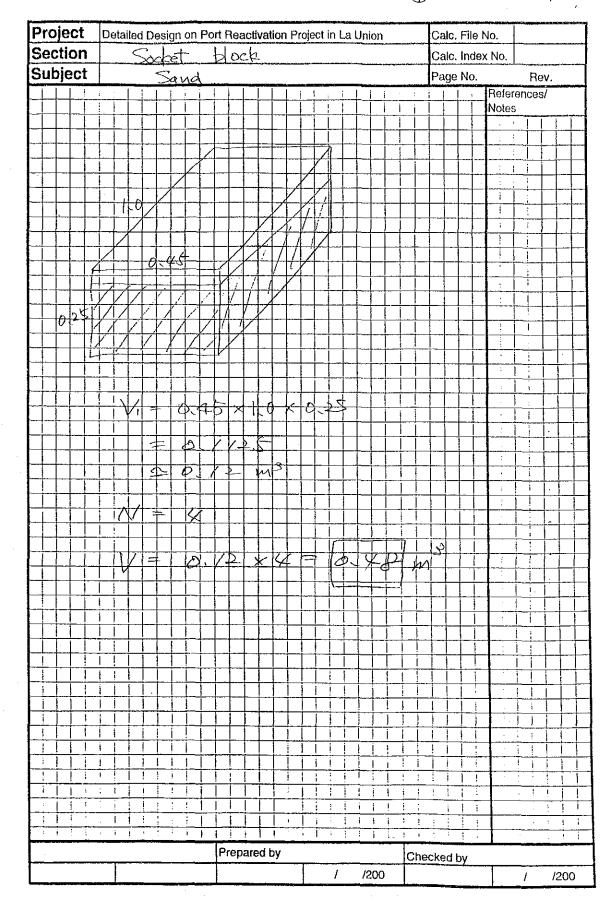
4 holes were to be prepared for Socket block and to be filled with sand until saftydevice will be set.

References, Calculation Base and Revisions

Révenues: Tender Drowings: OW-QW-01-059 Détail of Anchor-Tock up Plate & Socket Block.

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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	Socket Block	Pay Item No. (BOQ)	20-1802
Quantity Item	Form for cover	ปnit	M ²

Area of form for cover was computed. This cover was to be separated into 2 parts.

References, Calculation Base and Revisions

Reterences: Tender Drowings:

DW-QW-01-059 Detail of Inchor - Tock up Plote &
Socket Block.

(Some as Sound (Sockel Block))

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