	QUANTITY CALCULATION C		
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	CONCRETE FOR CRANE PAIL FOUNDATION	Pay Item No. (BOQ)	2B-1905
Quantity Item	Crushed Stone (Couldiner Berth)	Unit	м ³ .

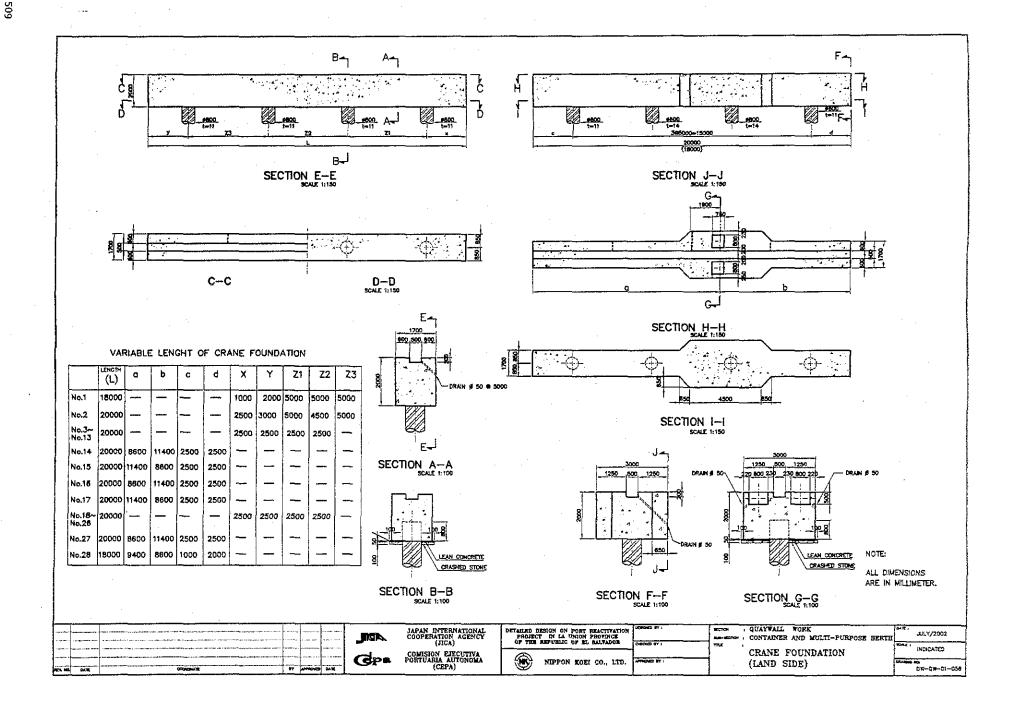
Volume of crushed stone for crane rail foundation was computed pased on local thick.

References, Calculation Base and Revisions

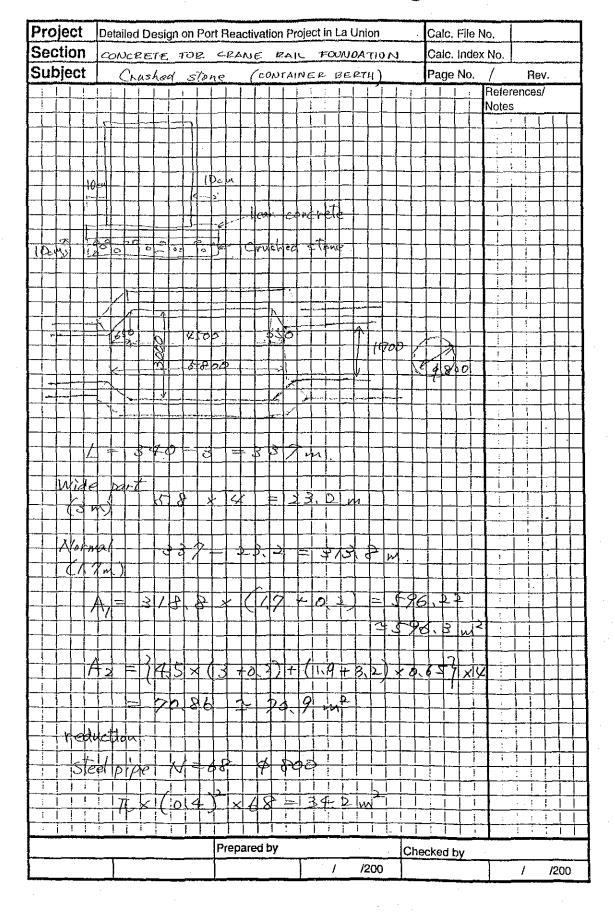
References: Tender Drawings:

DW-QVI - 01 - 05% Grane Toundation (lond Side)

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	by	Date	Pages	by	Date	by	Date	by Calc No.
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(a) NIPPON KOEI CO, LTD.



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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 FOIR CRANE RAIL FOUNDATION	Pay Item No. (BOQ)	213-1406
Quantity Item	Leveling of Crushed Stone	Unit	. M 2

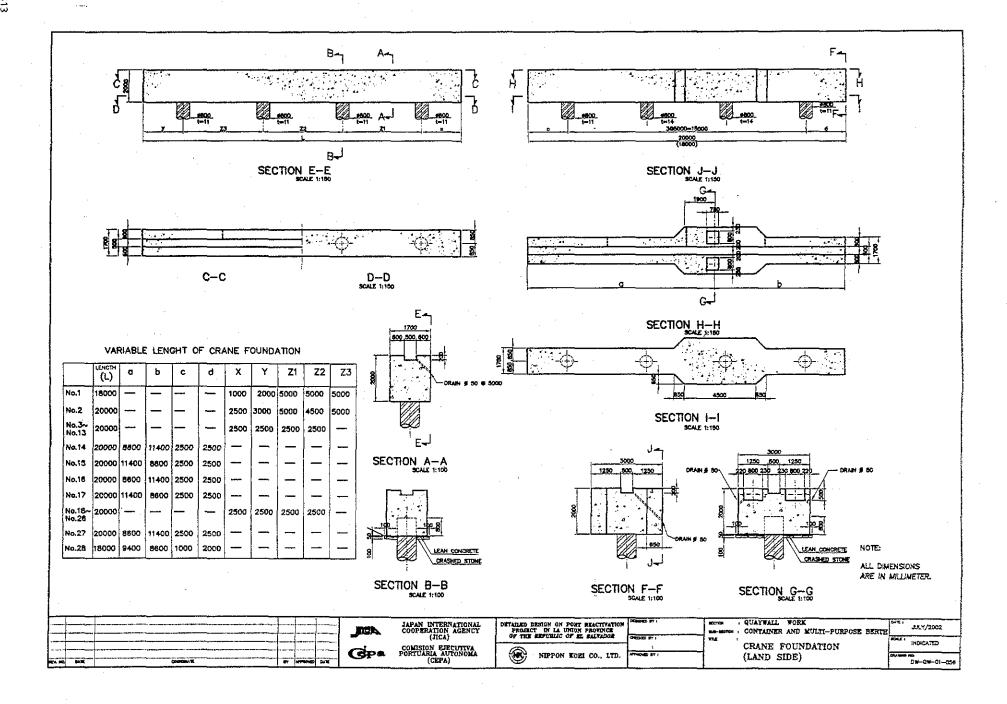
Area of leveling is the same as area of crushed stone. So, calculation was omitted in this part.

References, Calculation Base and Revisions

Fehrenes: Tinder Drowings;

tw-Qui - 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	CONCRETE FOR CRANE PAIL TOUNDATION	Pay Item No. (BOQ)	28 - 1407
Quantity Item	Lean Corcrete	Unit	M³ .

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

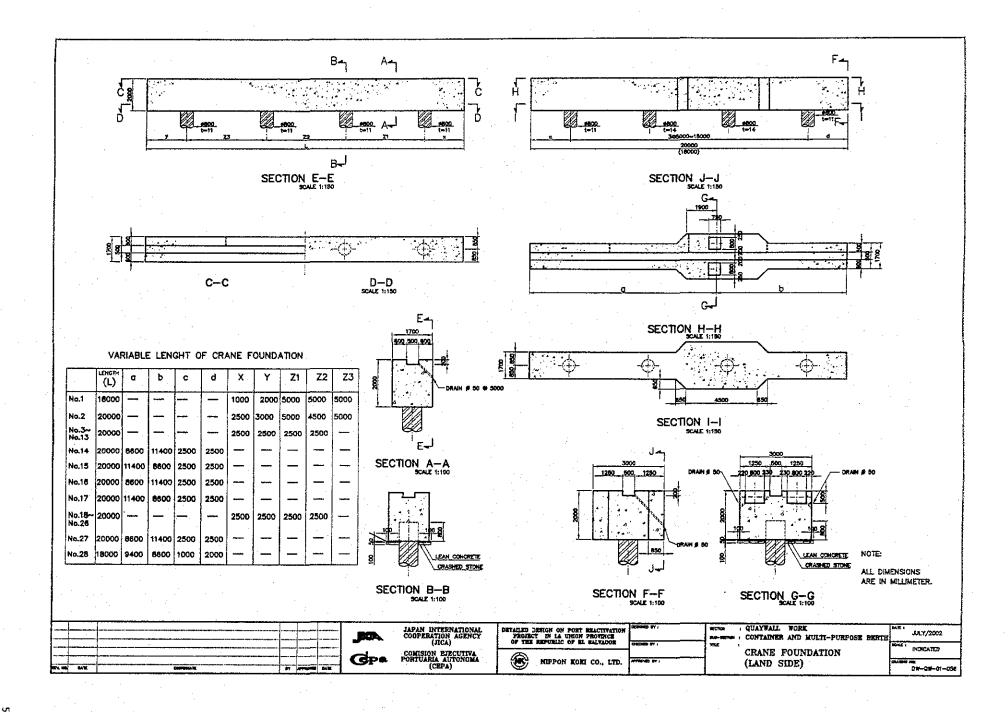
Thickness uses to be 5 on

References, Calculation Base and Revisions

Frience: Tinder Drawings:

011- QNI - 0: - 054 Crone tounds from (Lond Tide)

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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 PAIL TOUNDATION	Pay Item No. (BOQ)	28-1408
Quantity Item	CRANE DRAIN PIPE	Unit	Lm

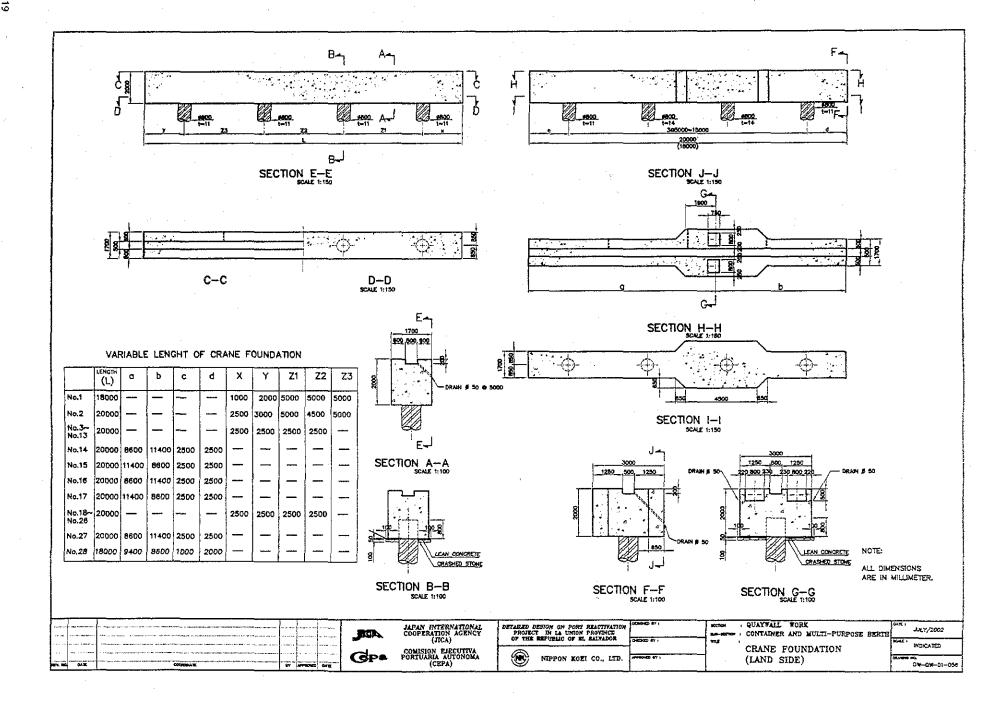
Crane drain pipe was computed multiplying the length of crone pipe to the number of pipe contained in one crone and multiplied to the total of coissons in Container and italk purpose Beith.

The length was computed with zero desiral for total.

References, Calculation Base and Revisions

Rélevence: Tinder Drawing DW-QW-01-058 Crane Foundation (land Side)

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Work Section Title	Crane Rail with Accessories	Pay Item No. (BOQ)	2B-1501
Quantity Item	Chane Rail with Accessories	Unit	М

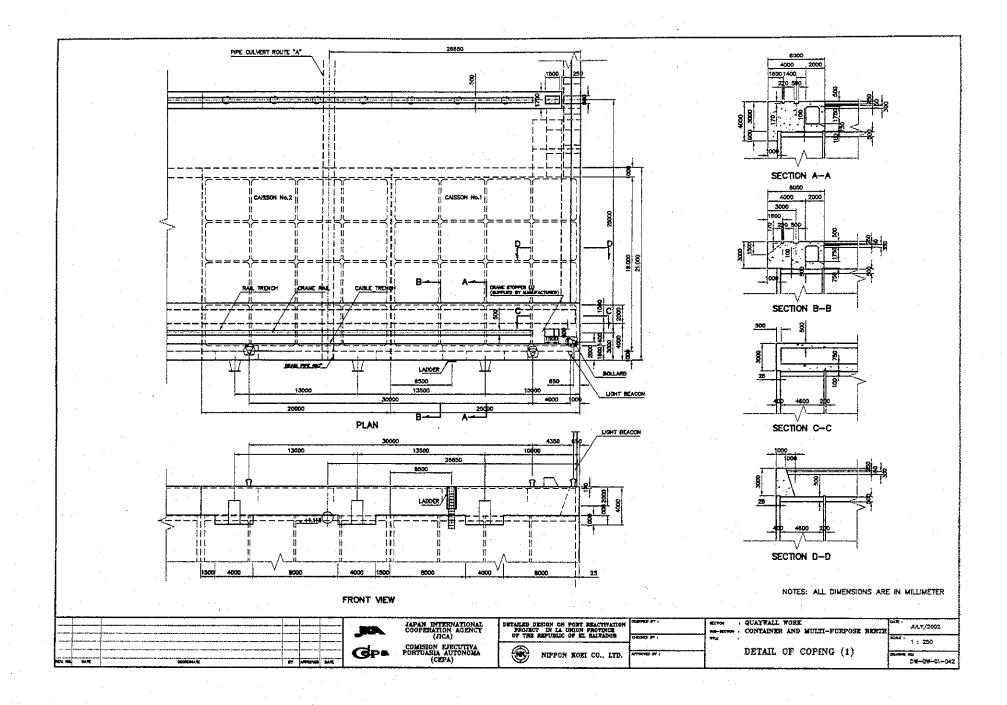
Length of crone rail was computed for Container Berth.

References, Calculation Base and Revisions

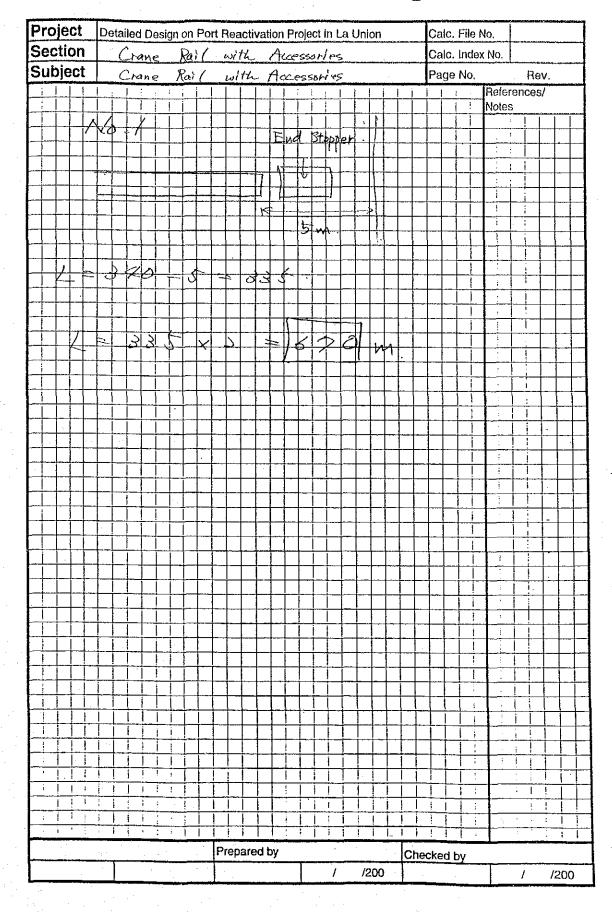
References: Tender Dowings:

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

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Work Section Title	Crane Rail with Accessories	Pay Item No. (BOQ)	2B-1502
Quantity Item	Asphalt Mixture	Unit	m ³

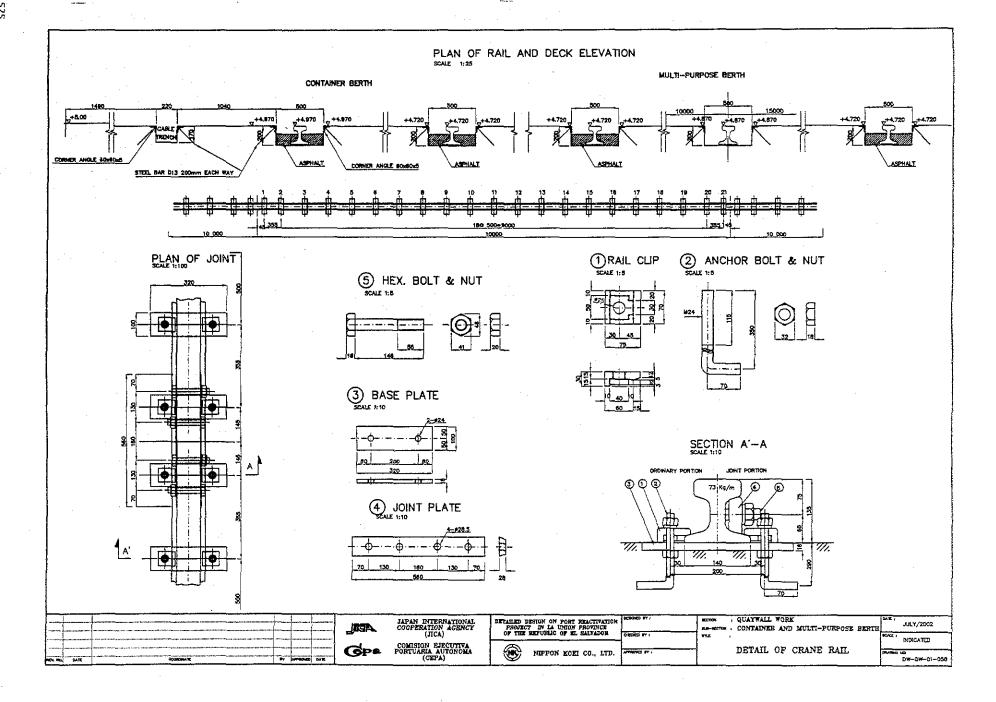
Volume of asphalt mixture was computed by multiplying typical section area by length.

References, Calculation Base and Revisions

References: Tender Drowings:

DW-QW-01-038 Deboil of Crone Roil

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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)	RB-1503
Quantity Item	Corner Angle	Unit	F2:

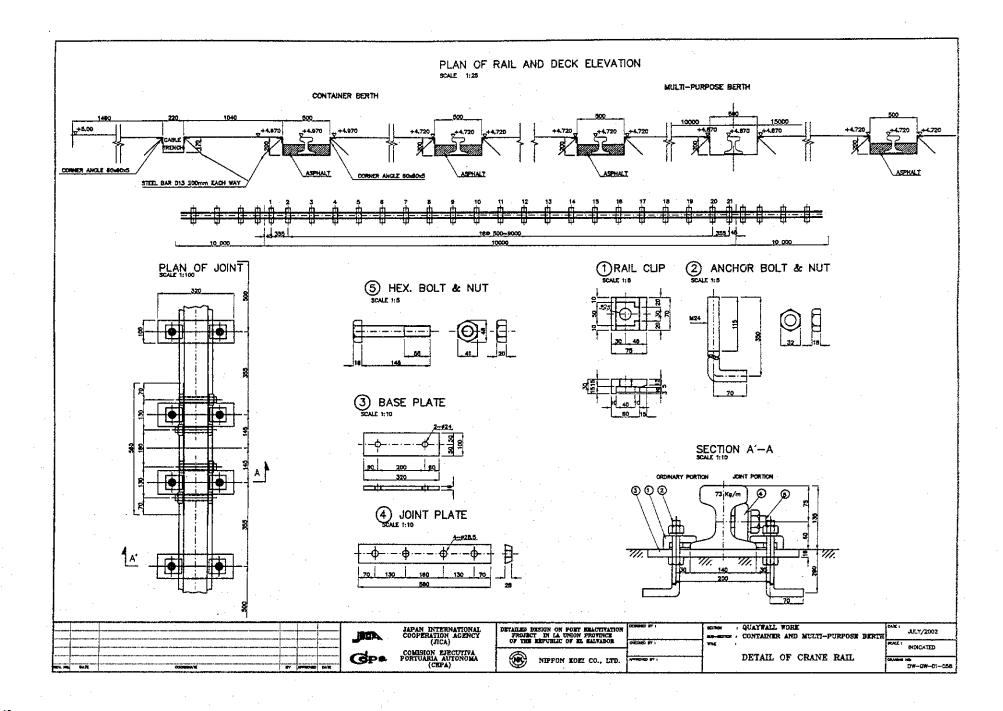
Weight of corner angle for crane rail was computed by multiplying unit weight by length.

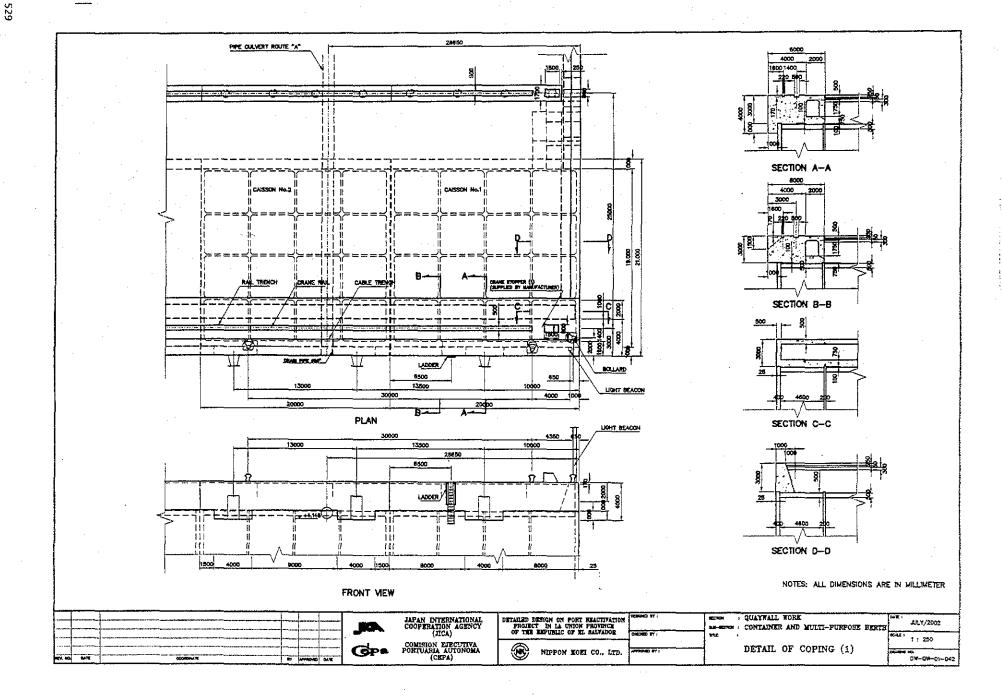
References, Calculation Base and Revisions

References: Tender Drowings: DW- QW- 01- 042 Detail of Coping (1)

DW - QW -01 - 058 Petroil of Crone Rail

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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)	2B-1504
Quantity item	Re — Ban	Unit	k3 .

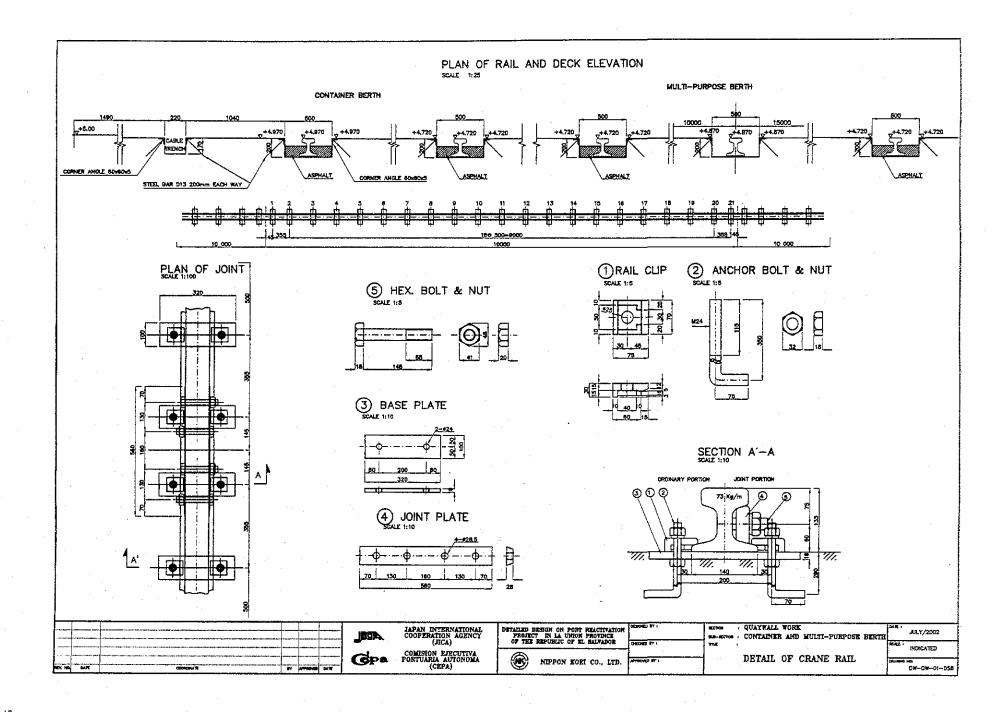
Weight of re-bar for crane rail was computed by multiplying unit weight by total length. Re-Bar was to be welded with corner apple.

References, Calculation Base and Revisions

Références: Tonder Drawings:

DW-aw-01-058 Defoil 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)	2B-1601
Quantity Item	Corner Angle	Unit	. kg

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

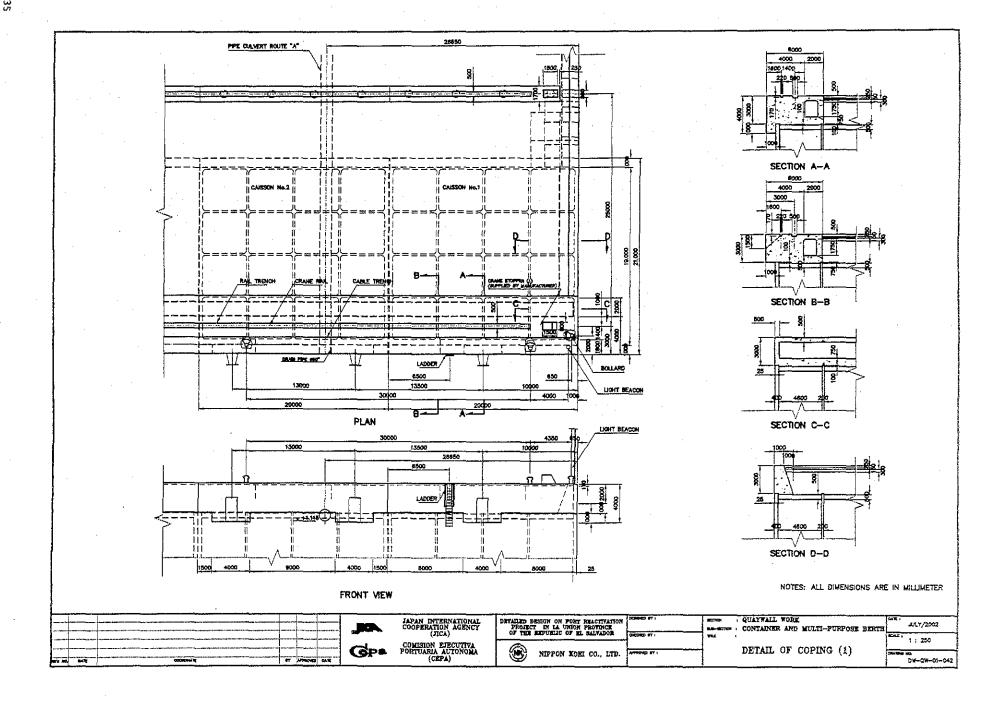
References, Calculation Base and Revisions

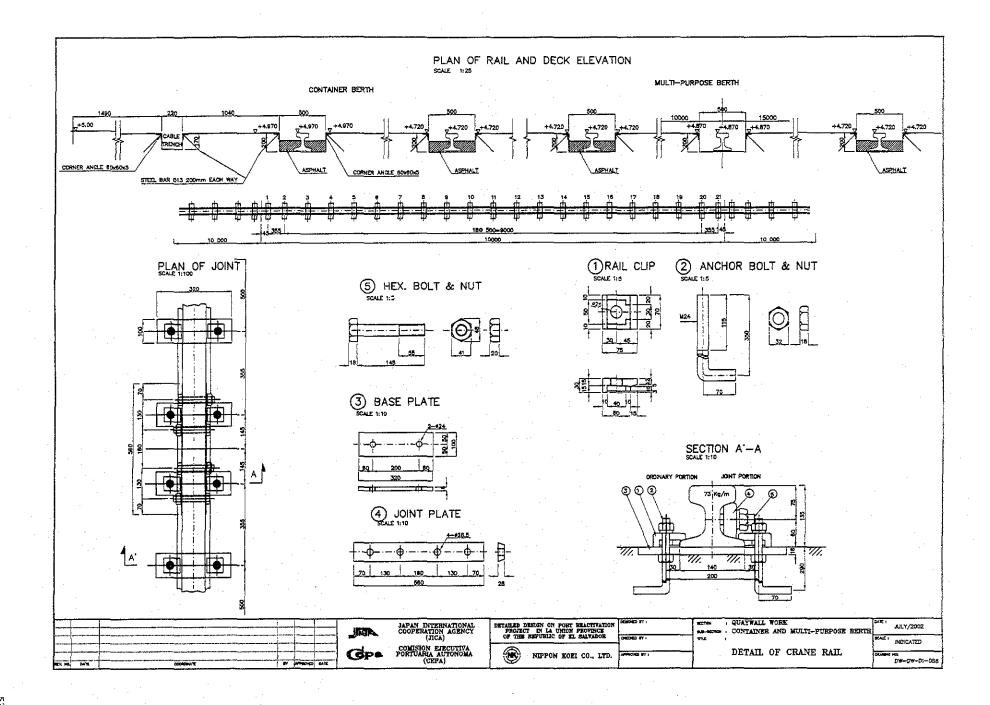
Reference: Tender Drowings:

DVI-QW-01-042 Deboil of Coping (1)

DW-QW-01-058 Deboil of Crone Roil

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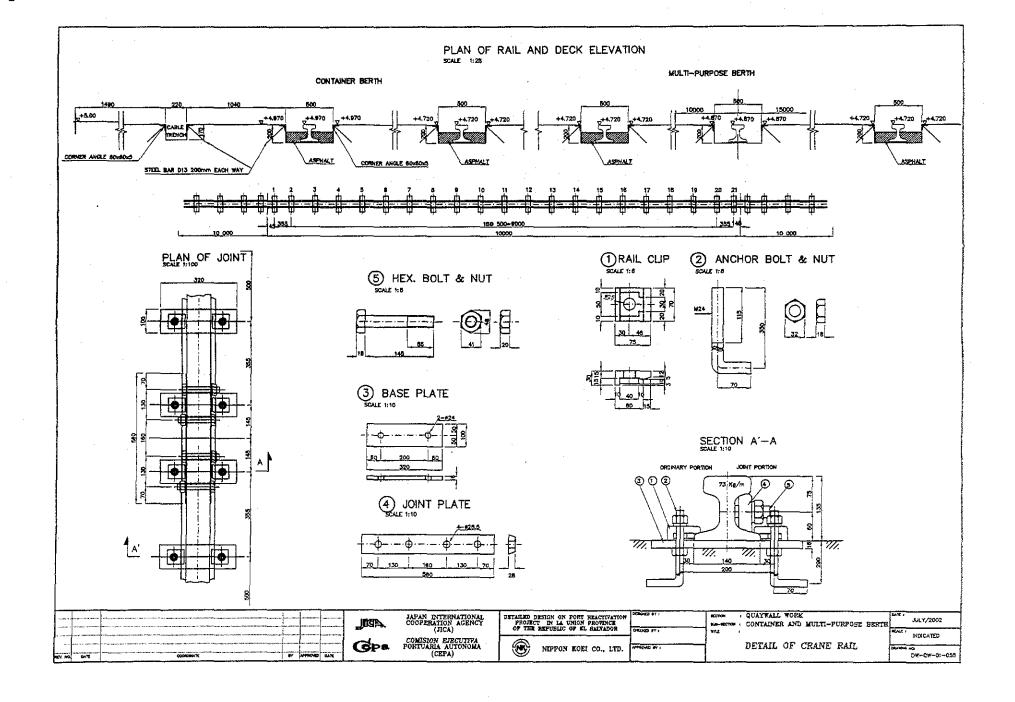
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	QUANTITY CALCULATION C		
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	Cable Trench	Pay Item No. (BOQ)	213-1602
Quantity Item	Re — Bar	Unit	kg .

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

Réferences: Tendel Drawings: DW-QW-01-058 Déboil of Crone Rail



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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	Jack-up base.	Pay Item No. (BOQ)	213-170
Quantity Item	Steel Plate.	Unit	Ms

Jack-up tose was to be set on the coping and crane rail foundation in order to jack crane up while not working.

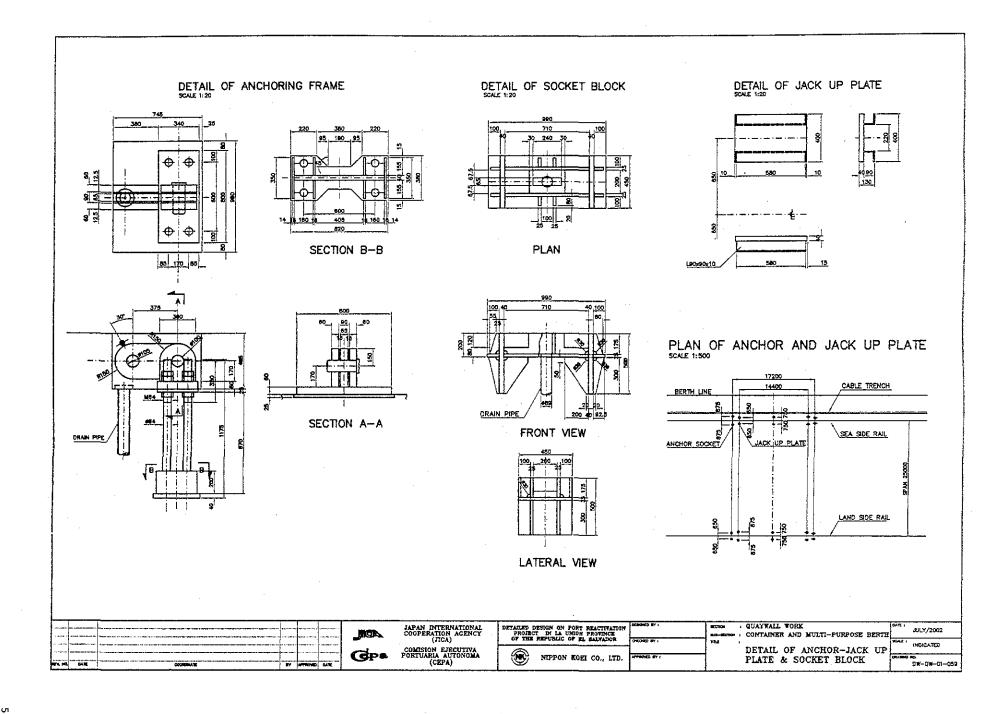
References, Calculation Base and Revisions

References: Tender Drawings:

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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	Jark-up base	Pay Item No. (BOQ)	213-1702
Quantity Item	Base Angle	Unit	Nos

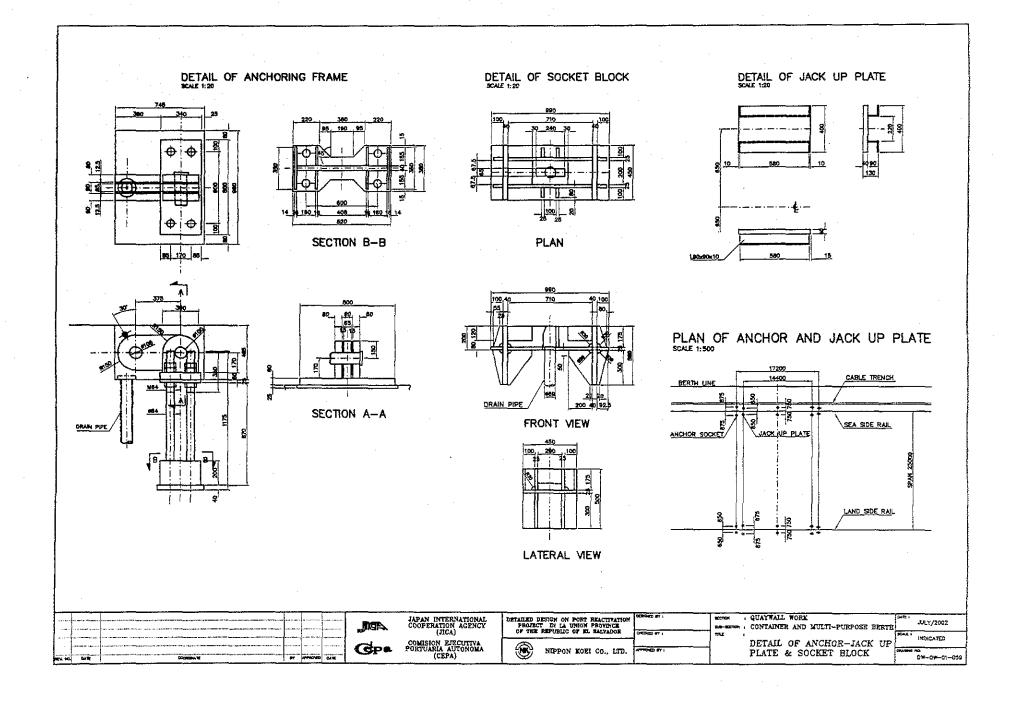
Jack-up base was to be set on the coping and crane rail foundation in order to jack erane up while not working. Base angle was to be used for base of steel plate.

References. Calculation Base and Revisions

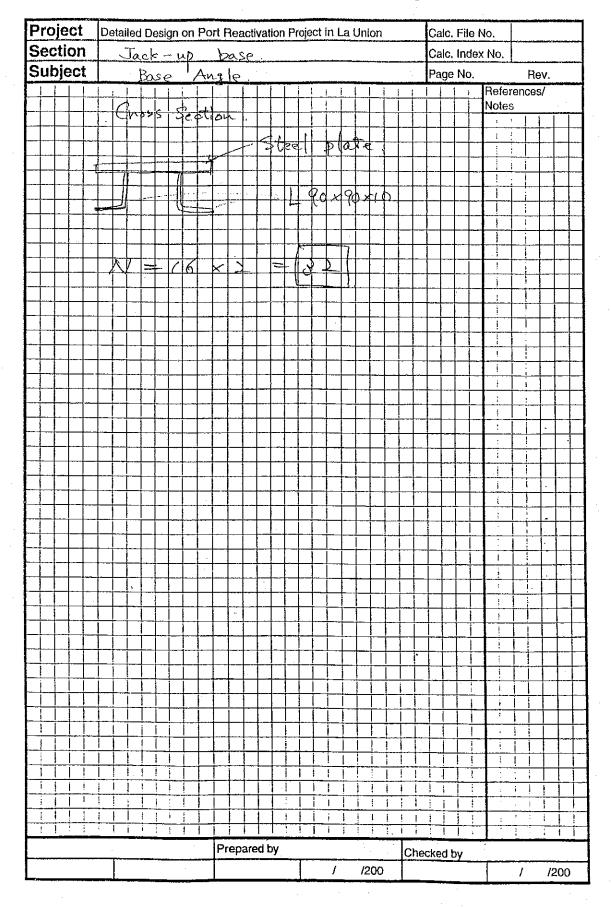
Récionces: Tender Drawings:

DW-QW-01-059 Detail of Anchor-Bek up Plate & Sockel Block

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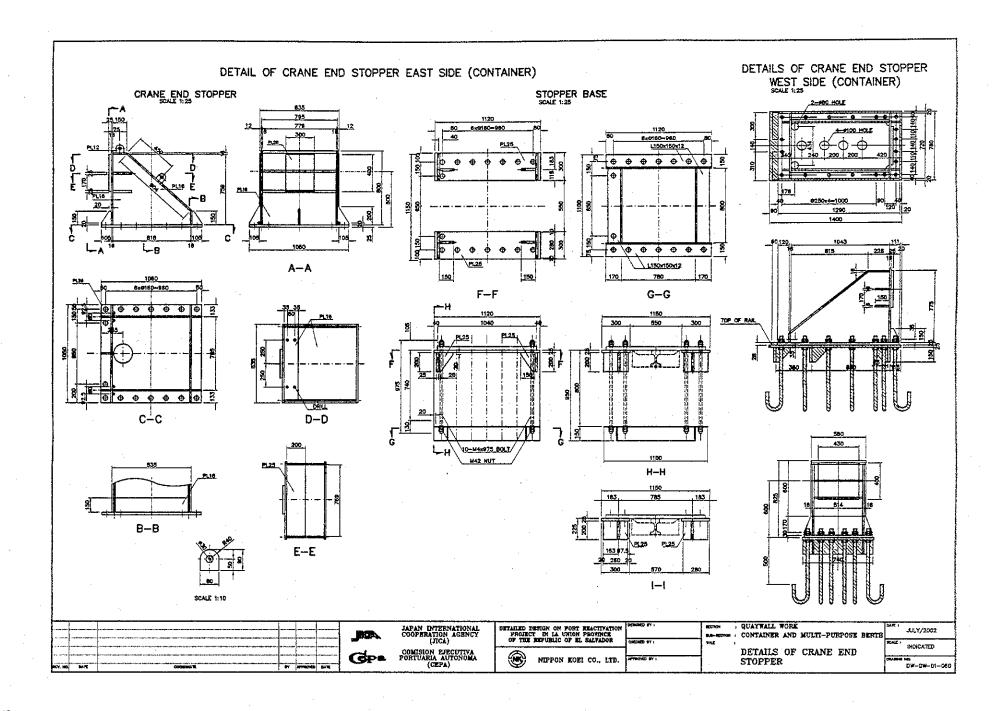
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Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	End Stopper	Pay Item No. (BOQ)	28-1801
Quantity Item	Steel Plate & Bolt	Unit	XAs

4 end stoppers were to be set on the edge of crane rail in Container Berth. So, steel plate & bolt usere also to be set in 4 points.

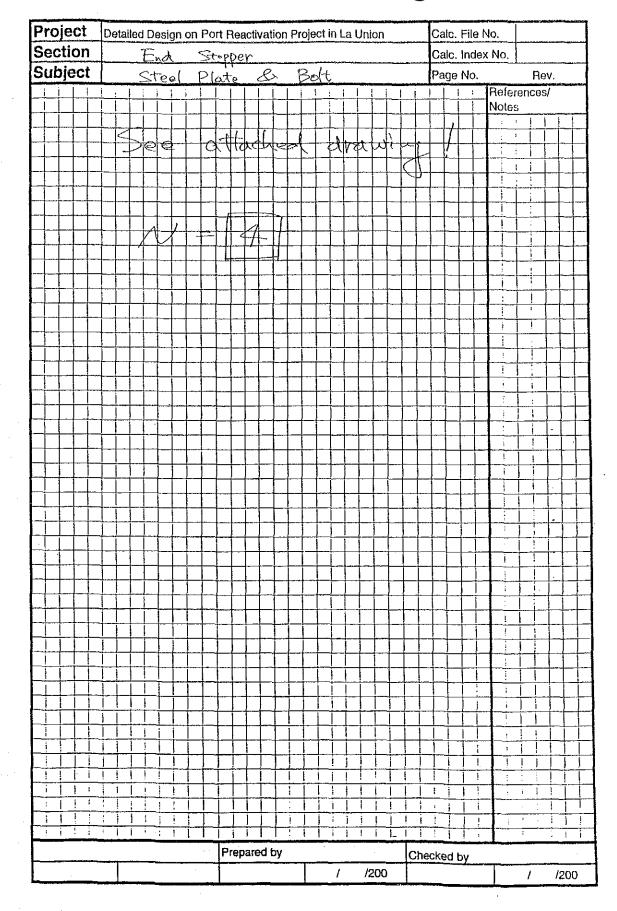
References, Calculation Base and Revisions

References: Tender Drawings: DW-QW-01-060 Detail of Come End Stopper

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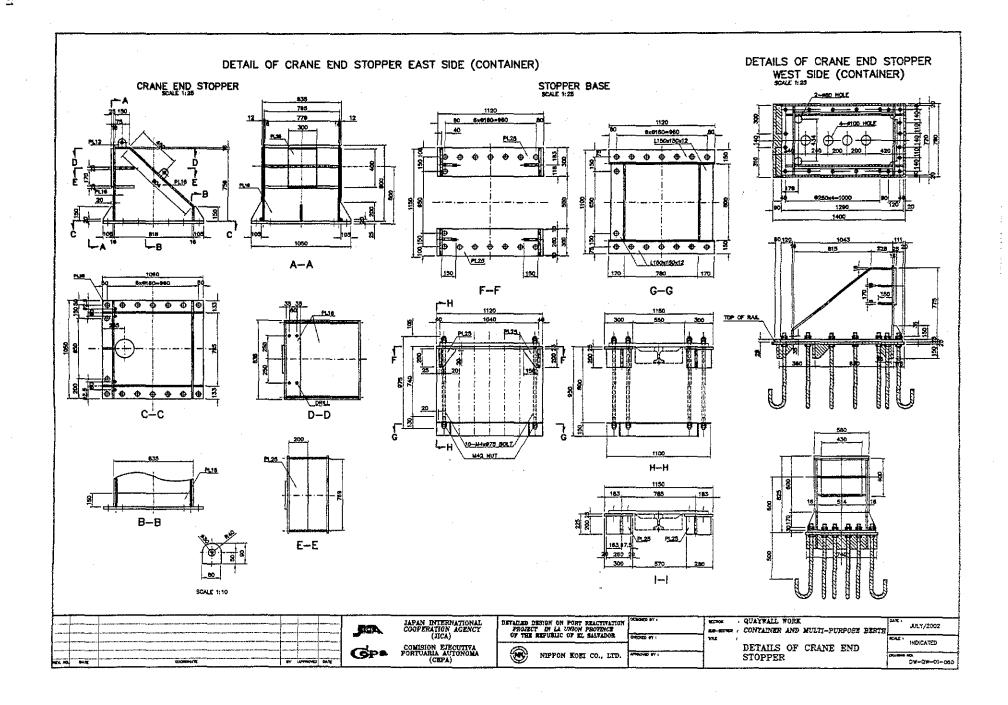
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Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001								
Work Section Title	End Stopper	Pay Item No. (BOQ)	2B-1802								
Quantity Item	Concrete	Unit	m ³								

Volume of concrete for end stopper was computed. This concrete was to fill holes for end stoppers after they were to be set in relevant places.

References, Calculation Base and Revisions

Reserves: Tender Drawings: UNI - 2NI - 01 - 060 Debit of Crone 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)	213-1901
Quantity Item	Steel Plate & Bolt	Unit	Nos ·

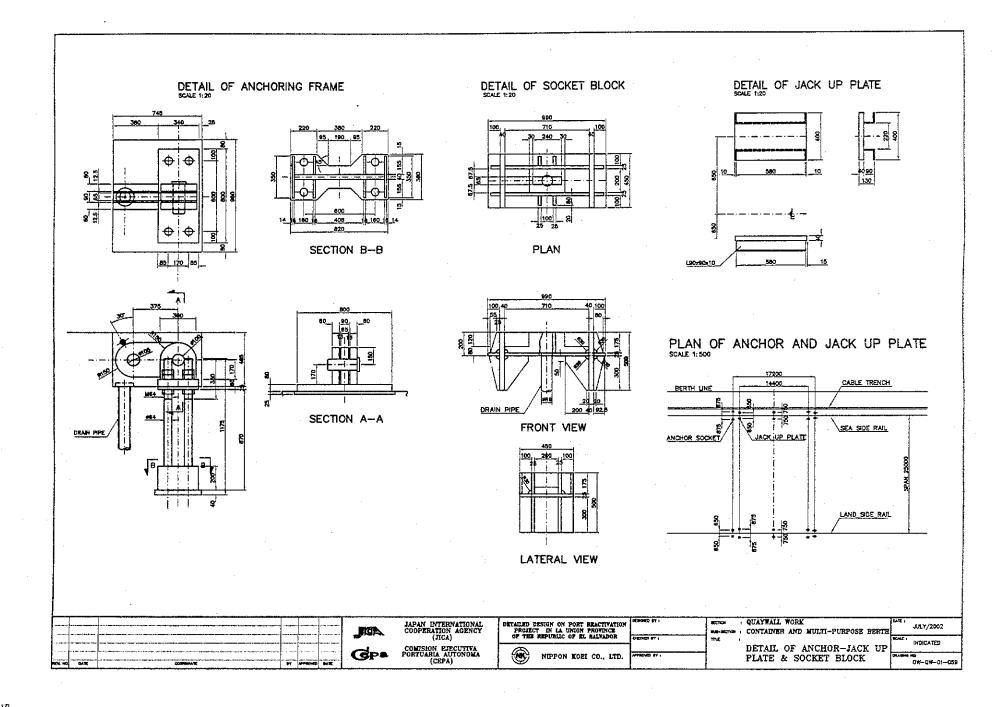
References, Calculation Base and Revisions

Refirences: Tinder Drowings:

DW-QW-01-059 Detail of Anchor-Tock up Plate

& Sockel 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)	23-1902
Quantity Item	Concrete	Unit	™3

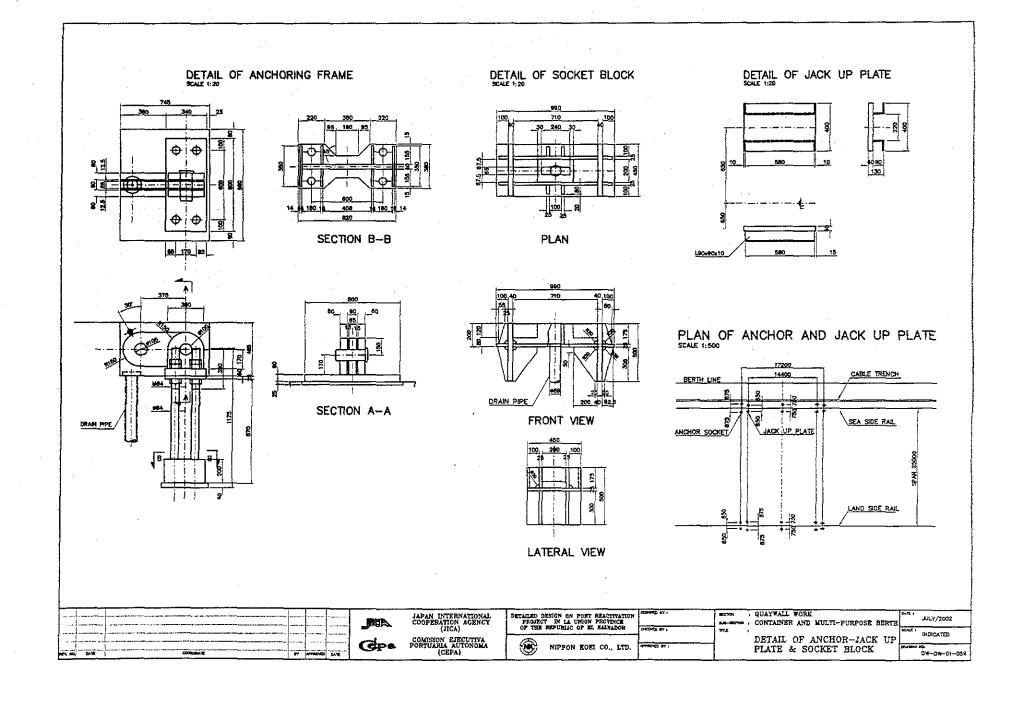
Volume of concrete for socket block was computed. This concrete was to fill holes for socket blocks after they were to be set in relevant places.

References, Calculation Base and Revisions

References: Tender Drowings:

DW-QW-01-059 Detail of Anchor-Tockup 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	Crane auchoring frame	Pay Item No. (BOQ)	213-2001
Quantity Item	Steel Plate & Bolt	Unit	Sels

Crane anchoring frame is one of safty devices for crane. 8 sets of crane anchoring frame were to be set for a crane.

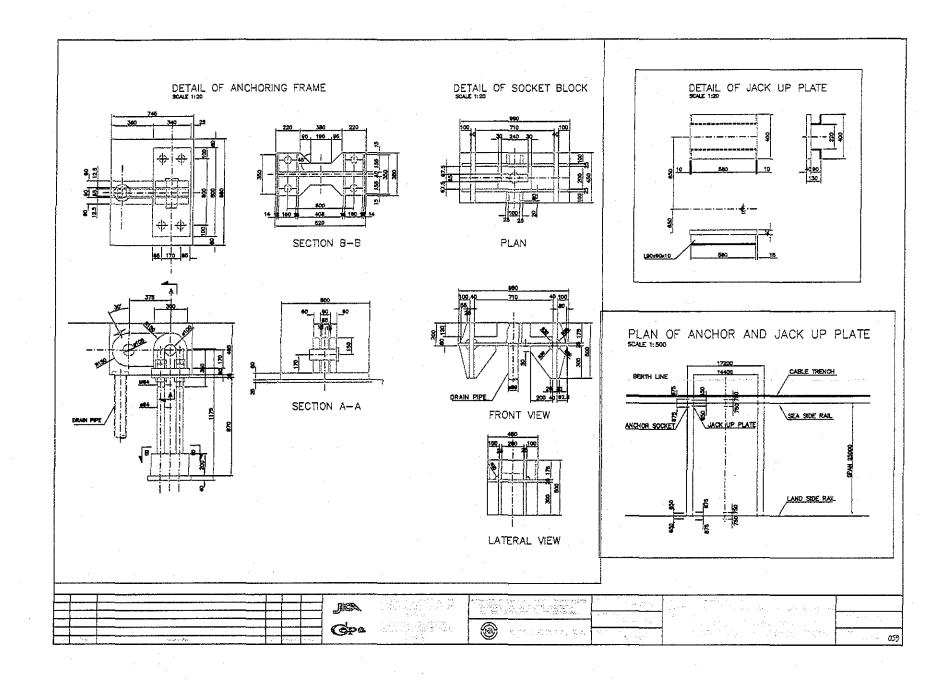
References, Calculation Pase and Revisions

References: Tender Drawings:

DW-QW-01-059 Detail of Anchor - Tock up Plate

& Socket Block

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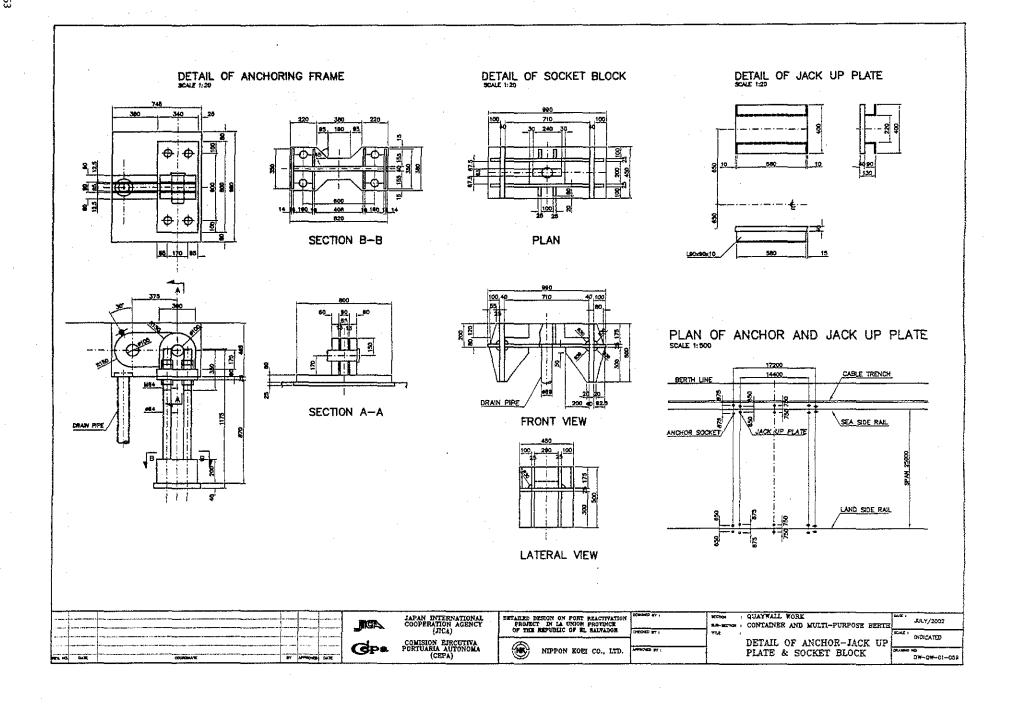
	QUANTITY CALCULATION C		·
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	Crave auchorius frame	Pay Item No. (BOQ)	2B - 2002
Quantity Item	Concrete	Unit	M ²

Volume of concrete for crane anchoring frame was computed. This concrete was to fill holes for crone anchoring device after it was to be set in relevant place.

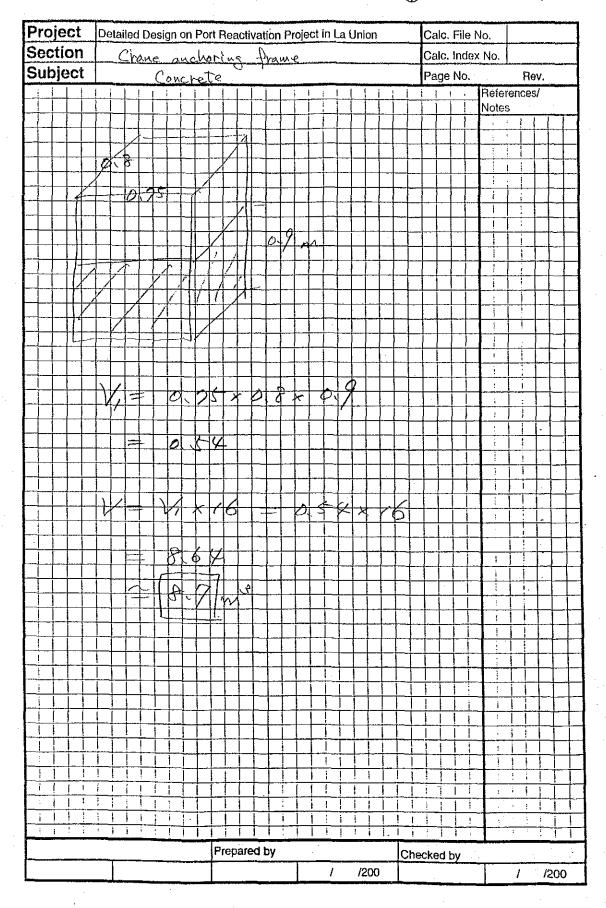
References, Calculation Base and Revisions

Remances: Tender Immings: EW-QM-01-05) Ichail of Anchor-Tock up Place & Cockel Elock

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Work Section Title	Crone anchonina frame	Pay Item No. (BOQ)	2B - 2003
Quantity Item	Angle & Re-Bar	Unit	Ka

Crane aichoring frame has a concrete cover. This angle was to be set for frame of concrete cover. and Re-Bar was to be set in order to fix angle.

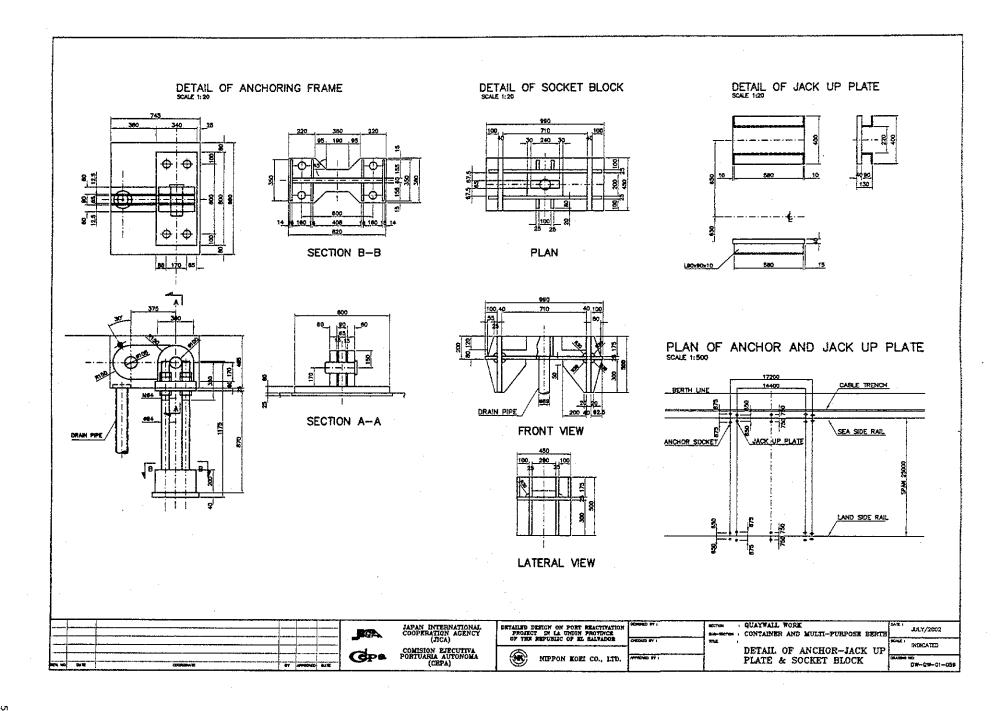
References, Calculation Base and Revisions

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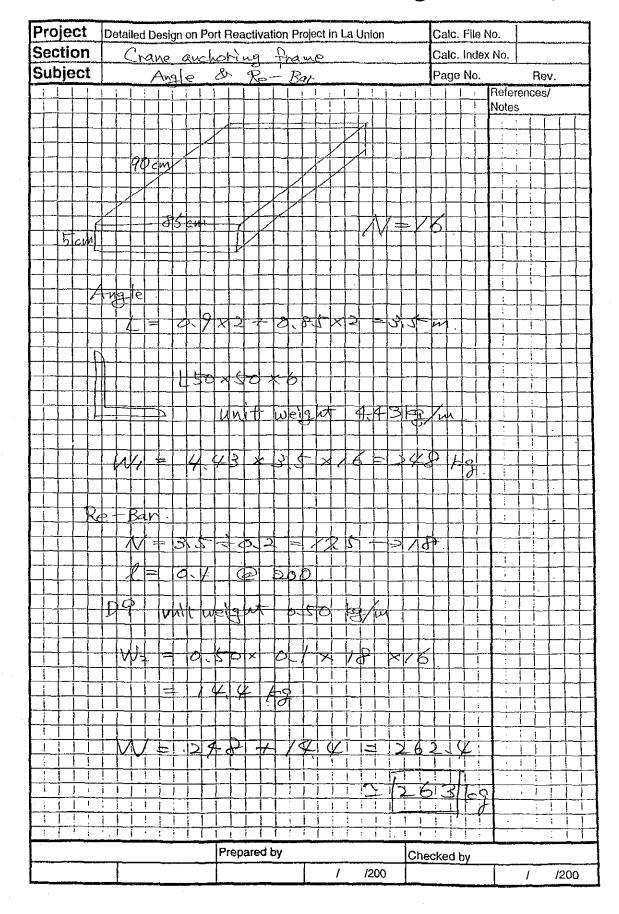
1711-271-01-059 Detail of Lottor - Tick up Place

& Societ Block

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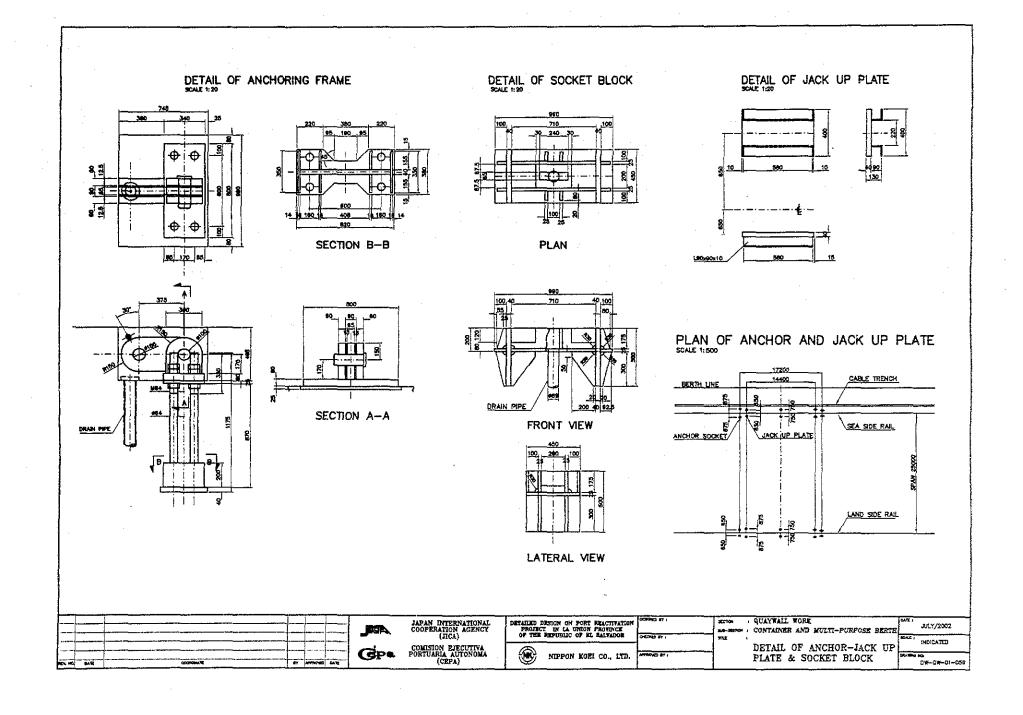
	QUANTITY CALCULATION C		
Project	Detailed Design on Port Reactivation Project in La Union Province	Project Code	JC1N004/2N001
Work Section Title	Chane anchoring framo	Pay Item No. (BOQ)	28-2004
Quantity Item	Form for cover	Unit	M,

Area of form for cover of crone anchoring frame was.

References, Calculation Base and Revisions

Rétiences: Tender Drawings: DW-QW-01-059 Détail of Inchor-Tock up Plote & Sockel Block

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