

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

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

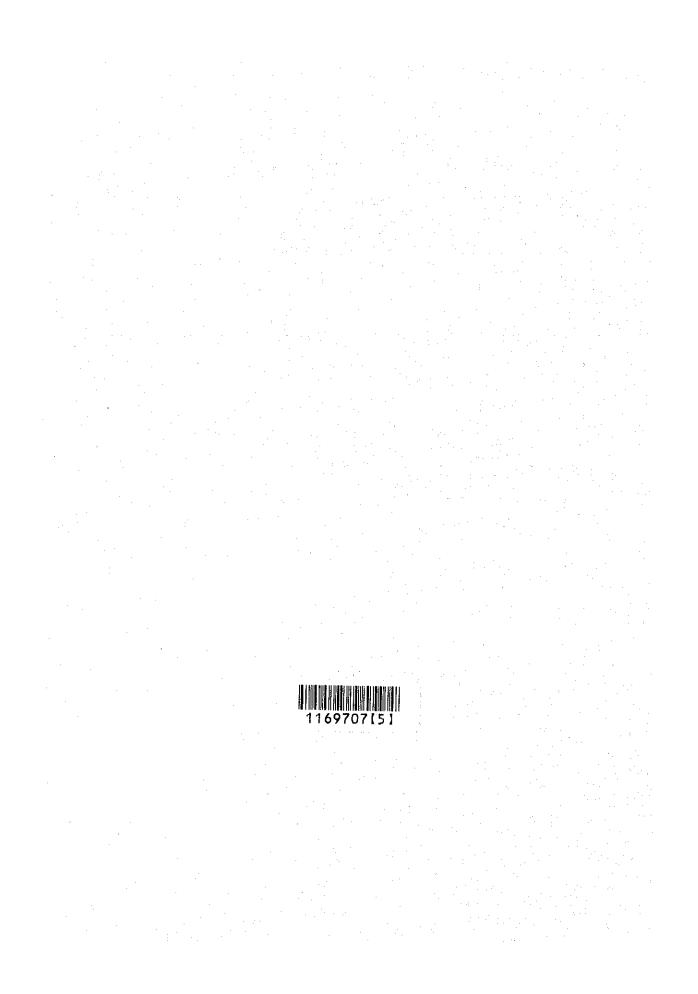
# FINAL REPORT

## **QUANTITY CALCULATION REPORT**

**Building Works** 

## **OCTOBER 2002**

## NIPPON KOEI CO., LTD.



# QUANTITY CALCULATION

## BUILDING WORK

## [ 3A; PORT ADMINISTRATION BUILDING ]

## AUGUST 2002

# LA UNION PORT DEVELOPMENT PROJECT

### QUANTITY CALCULATION SHEET

CHECKED BY

# 3A01: EARTHWORKS

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# ADMINISTRATION BLDG.

ITEM NO.	DESCRIPTION	UNIT	LOCATION	Q'TY	QUANTITY CALCULATION	TOTAL Q'TY	
A0101	Excavation for Pile Cap	m3	F1	1	0.95*(2.85*2.85+0.9*2.85+0.9*2.85+0.9*0.9*2)	14.13	
			F2	6	0.95*(2.6*2.6+0.9*2.6+0.9*2.6+0.9*0.9*2)*6	74.44	
			F3	2	0.95*(2.2*2.2+0.9*2.2+0.9*2.2+0.9*0.9*2)*2	19.80	
	ante de la Companya de la Cardena Companya de la Cardena de l Cardena de la Cardena de la		F4(Drop-0.5)	6	1.45*(1.7*2.6+1.2*1.7+1.2*2.6+1.2*1.2*2)*6	108.40	
			F4	6	0.95*(1.7*2.6+0.9*1.7+0.9*2.6+0.9*0.9*2)*6	56.49	
			F5(Drop-0.5)	4	1.45*(1.7*1.7+1.2*1.7+1.2*1.7+1.2*1.2*2)*4	57.13	
			F5, F5A	2	0.95*(1.7*1.7+0.9*1.7+0.9*1.7+0.9*0.9*2)*2	14.38	
					SUB TOTAL	344.77	· · · · ·
A0102	Backfilling for Pile Cap & Sal	m3			(344.77-87.47)+0.5*Area of BLDG Profile(42*16+12*8+6*2.5+6*3+1.2*18)- (Conc. Volume -FL;118.21)'	550.39	
						CAL	CULATION
				· · · · · · · · · · · · · · · · · · ·		on Port Re	iled Design activation Project inion Province
	TOTAL					CALC FILE NO	
			. <u>.</u> .			CALC INDEX N	10.: PAGE 2017, INITIAL DATE V.Feyikawa Jul.o

LA UNION PORT DEVELOPMENT PROJECT BUILDING WORK

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## Quantity Calculation Sheet Piling Work

PAGE 002

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CHECKED BY

PAY ITEM	DISCRIPTION		TOTAL Qty	UNIT								CA														•		
NO	PRECAST PRESTRESS	סווב		SUB TOTAL																		-						
. >	P1 400*400 L=7000										·																-	
	CONCRETE	@1	1.12	2 m3		0.4	*	0.4	*	7.0						,					•							
	STRAND ROPE $(6-\phi 1/2'')$	@1	42.00	m		7,0	*	6		5 				·		•								м. Т				
	D16	@1	30.45	Kg	(	1.5	+	0.3	+	0.64	)*	8	*	1.56		з÷ <sup>1</sup>					•							
	D10 (SPIRAL)	@1 PITCH50 PITCH100	90.50	Kg 53.76 36.74		1.6 1.6	*	60 41	*	0.56 0.56	• • •	÷ .												ŀ				
*	P2 450*450 L=7000									<b>.</b>				•														
	CONCRETE	@1	1.42	m3		0.45	*	0:45	*	7.0						л 							•	•				
معرب	STRAND ROPE (6-φ1/2 <sup>"</sup> )	@1	42.00	m		7.0	*	6			· .									·								·
		@1	30.45	1.00	(	1.5	+	0.3	+	0.64	)*	8	*	1.56		•	•							÷.				
	(SPIRAL)	@1 PITCH50 PITCH100	101,81	Kg 60.48 41.33		1.8 1.8	*	60 41	* *	0.56 0.56	in Stan La C		• • •	•			-		•				· .					
	500*500 L=5000	· . 								· .	•.	-		· · ·						2	·							
	CONCRETE	@1	1.25	m3		0.5	*	0.5	*	5.0	; '								·	· ·.	•					LATIC		
•	$(6-\phi 1/2'')$	@1	30.00			5.0	*	6	•				· ·											Deta Port Re n La L	eact		n Proj	ect -
а 1. <sup>1.</sup> 1. 1.		@1	30.45		(	1.5	. +	0.3	+	0.64	)*	8 -	*	1.56	j.					•		C/		ILE NO			,	
		@1 PITCH50 PITCH100	113.12	Kg 67.20 45.92		2 2	*	60 41	*	0.56 0.56		· · · ·					÷	. *			· ·	CA	LC II	IDEX 1	No.:	INITIA		E 🚧
			· · ·	· · ·							1 A						· .					PF	REPAI	RED BY	Y	<u>1.</u> Z		Jul.o

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LA UNION PORT DEVELOPMENT PROJECT BUILDING WORK

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PAY ITEM NO	DISCRIPTI		TOTAL Qty	UNIT SUB TOTAL	2		CAL	CULATION	 
3A02	ADMINISTRATION B P2(L:5000) P3(L:5000)	UILDING 450*450 500*500	43 30	Nos Nos					
	CONCRETE	sum P2	81,11	Nos m3 43.61 37.50	1.42 ×	* 43 * * 30	* 5/7		
	STRAND ROPE (6-φ1/2″)	P3 P2 P3	1290.00		) 42.0 ,		* 5/7		
	D16	P2 ,P3	1587.75	1		•	* 5/7		  •
	D10 (SPIRAL)	P2 P3	6520.62 2 3	Kg 3127.02 3393.60	2 101.81 0 113.12	* 43 <sup>,</sup> * 30	* 5/7	•	
								· · ·	
								• .	
								- - -	

Quantity Calculation Sheet Piling Work

CALC	ULATION	
Detai	led Design	
on Port Rea	ctivation P	rojact
in La Un	ioa Provin	ce
CALC FILE No .:		
CALC INDEX No	.: P/	AGE 2003
	INITIAL	DATE
PREPARED BY	Y.Z.	Jul.O.
CHECKED BY	Zalas	Aug 07

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#### QUANTITY CALCULATION SHEET

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PORT ADMINISTRATION BUILDING

[ 3A03 CONCRETE AND FORMWORK ] SUMMARY OF CONCRETE/FORMWORK/RE-BAR SUB TOTAL TOTAL Re-Bar (m) ITEM Concrete Forming D10 D13 D16 D19 D22 D25 D32 ton +Loss4%  $(m_3)$ (m2) 184.2 0.0 2732.2 469.2) 0.0 925.8 0.0 0.0 1 FOUNDATION 101.26 3069.9 2 101.91 449.4 717.3 3940.2 138.0 191.4 FOUNDATION BEAM 0.0 0.0 3 254.2 1436.4 1709.7 FOUNDATION SUB BEAM 36.61 934.7 0.01 0.0 0.0 0.0 3 1F SLAB 142.32 11386.0 4 190.60 12847.2 0.0 0.0 8099.3 1114.8 1248.8 0.0 0.0 COLUMN 5 230.01 1579.7 407.8 9880.2 2001.0 0.0 0.0 593.0 10514.2 BEAM 6 SUB BEAM 105.07 966.5 3067.5 4523.3 908.3 0.0 0.0 6020.5 48.2 7 231.94 1216.5 22.82 23.74 SLAB -------8 WALL 101.51 1015.1 9.47 9.85 -------9 MISCELLANEOUS 50.02 566.90 2.57 2.67 ------CALCULATION **Detailed** Design on Port Reactivation Project In-La-Union-Province CALC FILE No .: PAGE-004 CALC-INDEX-No .:-INITIAL DATE Jul 0. PREPARED BY (7,8,9) SUB TOTAL 1AM Aug , 02 CHECKED-BY-34.86 36.25 1291.24 35359.5 SUB 7347.32 17762.1 3516.5 01 925.8 21731.5 8514.6 TOTAL UNIT WEIGHT (kg/m) 0.56 0.995 1.56 2.25 3.04 3.98 6.23 WEIGHT NET (ton) 9.95 35.18 5.49 0.00 2.81 33.89 135.39 222.71 TOTAL WEIGHT+LOSS 4%(ton) 10.34 36.59 5,71 0.00 2.93 35.24 140.80 231.61 267.9

LA UNION PORT DEVELOPME				Det on Port R		n Project				CALCULATION SH	
IMMARY ; FL BASE				PREPARED B	INITIA Y Y.Z	L DATE Jul.02					
				HECKED BY		CONCRETE (	13)				1. <b>X</b>
FL	FOUNDATION	FOUNDATION BEAM	OUTER SLAB	COLUMN	BEAM	SUB BEAM	SLAB	WALL	MISCELLAN.	SUB TOTAL	TOTAL
1-1F	101.26	138.52	40.34	12.29			101.98			394.4	
+1F				65.07	72.19	38.70	73.32	25.76	15.28	290.3	
2F				37.17	55.20	21.03	48.44	15.15	8.06	185.0	
3F				37.17	49.95	19.91	52.42	15.15	15.71	190.3	
4F				12.97	17.88	9.07	19.61	15.15	· · · ·	74.7	
5F				12.97	17.88	9.07	19.61	15.15		74.7	
6F		· · · · · · · · · · · · · · · · · · ·		12.97	16.92	7.29	18.55	15.15	10.97	81.8	
			······································								
TOTAL		138.52	40.34	12.29	200.01	405.07	<u>101.98</u> 231.94	101.51	50.02	<u>394.4</u> 896.9	
+FL				178.31	230.01	105.07	231.94	101.51	30.02		

<u>13 23 3 6 677 1</u>	ter ang seta sa		FOUNDATION	Alfy press ing Alastag			FORMING (m2				SUB	<u>.</u>
FL		FOUNDATION	BEAM	OUTER SLAB	COLUMN	BEAM	SUB BEAM	SLAB	WALL	MISCELLAN.	TOTAL	TOTAL
-1F		184.24	703.60		72.38							960.
+1F					382.72	489.47	360.41	403.98	257.58	192.62		2086.
2F					218.12	366.22	186.56	178.75	151.50	107.52		1208.
3F					218.12	345.84	171.28	219.36	151.50	157.08		1263.
4F					74.48	124.41	85.88	130.73	151.50			567.
5F					74.48	124.41	85.88	130.73	151.50			567.
6F					74.48	129.31	76.55	152.99	151.50	109.68		694.
- TOTAL	-FL	184.24	703.60	0	72.38						960.2	7347.
	+FL				1042.40	1579.65	966.55	1216.53	1015.07	566.90	6387.1	
				1								

## TAKE-OFF SHEET

### -CONCRETE -FORMMING -RE BAR

### QUANTITY CALCULATION SHEET

#### FL BASE

#### PORT ADMINISTRATION BUILDING

			CON	CRETE				FOR	MING						RE	INFORC	EMENT E	BAR				
	Symbol	Width (mm)	Height (mm)	Length (m)	Q'ty	Volume (m <sup>3</sup> )	Width (mm)	Height (mm)	Q'ty	Area (m <sup>2</sup> )	Symbol	Dia. (mm)	Length (m)	Nos	Q'ty	D10	D13	D16	D19	D22	D25	D3
1	[ 3A03 P	ORT AD	MINISTRA	TION BU	ILDING (	Floor Base	d) ]										1	<u> </u>	1			1
																	[	i				1
-			j Fc=2	10kg/cm	ļ	4004.04		(R)		1 70 17 00										·		<u> </u>
-	TOTAL	1	ſ	394.38 !	ſ	1291.24		200.38	ſ	7347.32						<b> </b>		 				
ł	1FL Dov	i	t ng kina	394.38		394,38	11.11	•	la je ra	960.22	<b> </b>					5022 8	9028.0	607.2	0.0	025.8	1901.1	1.78
1			1			004.00		· · ·								1 0020.0	0020.0				also içi	1
t	Base					101.26				184.24						0.0	2732.2	469.2	0.0	925.8	0.0	1
	FG					101.91				449.39						717.3		138.0		0.0		
	FB					36.61				254.20						934.7		0.0	0.0	0.0	1709.7	
	C(-FL)	1				12.29				72.38						144.2	919.2	0.0	0.0	0.0	0.0	18
l	Outside S	lab on Gra	ade		·····	40.34										3227.6						
ļ						· • · · · · · · · · · · · · · · · · · ·				<u> </u>												<u> </u>
ŀ	1F Slab		Sum of	IF Slab C		101.98						· · · · · · · · · · · · · · · · · · ·										
1	IF Slap			142.32		101.98							i			8158.4						
ŀ	1F_Üp 🗍		n in the second	a yan b	ta an	290.31		45.95	· · · · · · ·	2086.78					·	l La de la composition	la ga al					
	ĺ	<u> </u>	• • • •					[					i		·	ран на "на би ]	i i di di		( - 14 M)	n e sêr sê tiş.	A7 *	f 👾
ľ	C(1F)					65.07				382.72							4515.0	0.0	0.0	0.0	0.0	25
ľ	2G					72.19				489.47							3090.0	617.8	0.0	0.0	69.8	32
ľ	2B					38.70		23.52		360.41					<u> </u>	729.1	1838.4	399.6	0.0	0.0	2044.1	
	2F Slab					73.32				403.98			ļ									<u> </u>
-6-	1F Wall					25.76				257.58												<u> </u>
	2F Baico 2F Parap			···		<u>8.06</u> 7.22	···	22.43		107.52												<u> </u>
ľ	<u>er raia</u> p									85.10												<u> </u>
ŀ	2F_Up		ant er f	고 승립		185.05		0.00		1208.66								trat				 
ł	C(2F)					37.17				218.12						245 0	2499.0	0.0	0.0	0.0	0.0	14:
R	3G					55.20				366.22							2300.0		0.0	0.0	69.8	
	3B					21.03	······			186.56							1037.4	206.0	0.0		1208.3	_479
	3F Slab					48.44				178.75												
	2F Wall					15.15	<b></b>	}		151.50						1						1
F	3F Balco	ny				8.06				107.52	č	ALCI	JLATIC	)N								
ŀ	3F_Up	latu an cl	zanaz 🕴	الم حجري		190,32		9.80	ngen.	1268.18			ed Desi			ana ang a	e a mart	, and the second second	generalization de la companya de la		ا ، من ب مح	1
ľ	<u>, 605</u>	in pro-		n kata n	and the star	190,02	1	ə.ou	1	120p.10							n Suppli I	1		동물 영문	ê Heka	
l	C(3F)			*****		37.17				218.12	on Pol	rt Read	ctivatio	n-Proje	oct	245.0	2499.0	0.0	0.0	0.0	0.0	105
4	4G					49.95				345.84	2-	i a lin	ion Pro	VIDCA			2178.4	448.3	0.0	0.0	453.4	203
	4B					19.91			-,	17.28	IN-	CS UN				393.8		186.2	0.0		1077.2	
4	4F Slab					52.42				219.26	LC FIL	E No.:							0.0	0.0	1011.1	1
5	3F Wali					15.15				15 50				Inec	Earl				——i			[
4	4F Bałco	ny				0.00				0	LC IND	EX NO		1		4						[
f	4F Parap	ei				15.71		9.80		15 .08				AL	DATE_							
L					• ···					└──┨──┙			4		Jul of	1			[			
										PF	REPARE	DBY	17.E			76						
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### TAKE-OFF SHEET

-CONCRETE -FORMMING -RE BAR

### QUANTITY CALCULATION SHEET

#### FL BASE

### PORT ADMINISTRATION BUILDING

<u>,</u>		n de la sec Tel Directoria	CON	RETE				FOR	MING			- 1-			RE	INFORCE	MENT B	AR				
( I) )	Symbol	Width (mm)	Height (mm)	Length (m)	Q'ty	Volume (m <sup>3</sup> )	Width (mm)	Height (mm)	Q'ty	Area (m²)	Symbol	Dia. (mm)	Length (m)	Nos	Q'ty	D10	D13	D16	D19	D22	D25	D32
	4F_UP					74.67	in sur le	35.65		566.99						]] ]		an tang	n ann a suis Mart an Staire an	9.2		pa . A. Nota di
	C(4E)					12.97				74.48			· · ·			98.0	805.0	0.0	0.0	0.0	0.0	
-	<u>C(4F)</u> 5G					17.88		35.65		124.41						31.8	780.7	162.2	0.0	0.0	0.0	
-	5B					9.07		1		85.88						433.1	323.0	58.3	0.0	0.0	603.0	0.
	5F Slab					19.61				130.73					ļ							
	4F Wall					15.15				151.50					<u> </u>	<u> </u>						
	5F_UP	] 	I			74.67	na standar Netra st	35.65	ia tin	566.99						<u>-</u> 1	3 <b> </b>			الي. (11) ماري	؛	n lige
	C/5E		···			12.97				74,48				· •- • •	· ·	73.5	805.0	0.0	0.0	0.0	0.0	478.
	C(5F)					17.88		35.65		124.41						31.8	780.7	162.2	0.0	0.0	0.0	
	6G 6B		-			9.07				85.88			i			433.1	323.0	58.3	0.0			0.
	6F Slab		·			19.61	·			130.73			1							1		
	5F Wall					15.15				151.50												
	6F_UP				[	81.84		73.33		694.50						]	., :eta		diat d			
	C(6F)					12.97		······································	·	74.48	••••				·	73.5	805.0	0.0	0.0	0.0	0.0	289.
	RG	· · · · · · · · · · · · · · · · · · ·	·			16.92		35.65		129.31					/	30.5		162.2	0.0			816.
_	RB					7.29				76.55					:	653.6		0.0	0.0	0.0		0.
	RF Slab					18.55				152.99					;							
	6F Wall					15.15				151.50												
	RF Para	pet				10.97		37.68		109.68	·											
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CALCU	JLATIO	N
	ed Desig	
on Port Read in La Uni		
CALC FILE No .:		
CALC INDEX No.		PAGE 207
	INITIA	DATE
PREPARED BY	Y.F.	Julo
CHECKED BY	Aut	Augor

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PORT ADMINISTRATION BUILDING

1			CON	CRETE				FOR	MING							RE-B/	AR (m)					
1	Symbol	Width (m)	Height (m)	(m)	Q'ty	Volume (m <sup>3</sup> )	Width (m)	Height (m)	Q'ty	Area (m²)	Symbol	Oiameter (mm)	Length (m)	Numbers	Q'ty	<u>9</u> 10	D13	D16	D19	D22	025	03
-1-	BSe	MINISTRA		101.26	<u> </u>	101,26	184.24	(R曲面)		184.24								459,20	en an			İ
				í.	1111	101.25	449.39	l, i si	ĻĖ.	449.39						• * ** **					191.40	
- F		ina in Urbjet		101.91 36.61		36.61		Í	li i li	254.20								0.00			1709.74	
11	F±M	268,96m2			1	40,34		r Sala - S	1 <sup></sup> .	0.00				258.96m2	12m/m2=	3227,60	0.0	0.00	0.0	0,0	0.0	
	(-FL)	re sum(-'i				12.29		CULTURE C		72.38	DE DUD (					144.20	919.20	0.00	0.00	0.00	0.00	182
	(1F)	1 C OLYMI(-1	- Line 2 io	Agiuniz	L	65.07	FORMING			382.72	RE-BAR S	50/W(-1/PL)					4515.00		0.00			252
	(2F)					37.17			·	218,12						245.00	2499.00	0.00	0.00	0.00	0.00	1436
	(3F)		•			37.17				218.12						245.00	2499.00	0.00	0.00	0.00	0.00	1050
<u> </u>	(4F)					12,97				74,48						98.00	805.00	0.00	0.00	0.00	0.00	478
<u> </u>	(5F)					12.97				74,48						73.50	805.00	0,00	0.00	0.00	0.00	478
<u>.</u>	(6F)		•			12,97				74.48						73,50	805.00	0.00	0.00	0.00	0.00	285
_ c	SUMHIE	e da si	tiste i	190,60	berraco.	/178.31	1114.8			1042.40			·····	·····	,	1104,60		00.0	0.00	0.00		
20	3					72.19				489.47			COLUMN	RE-Bar SU	M	1248.80 128.5	12847.20 3090.0	0.00	0.00	0.00		
- 30	5					55,20				366.22						94.5	2300,0	448.2	0.0	0.0		
40						49.95				345.84						90.9	2178,4	448.3	0.0			1
50	s					17.88		35.65		88.76	124.41					31.8	780.7	162.2	0.0			1
- 60						17.88		35.65		88.76	124,41					31.8	780.7	162.2	0.0	0.0	0.0	- 94
- 8						16.92		35.65		93.56	129.31					30.5	750.4	162.2	0.0			
G	SUM:		anti co	230.01			1472.7	105.95		1579,65						407.30	9880.20		0.00	0.00		1
_ 	<u> </u>		, /////////////////////////			38.70		23.52		336.89	350,41					729.1	1838,4	399.6	0.0	0.0	2044.1	
- 36	<u> </u>					21.03				186.56						424.9	:037.4	206.0	0.0	0.0	1208.3	
- 4	<u> </u>					19.91				171.28						393.8	833.7	186.2	0.0	0.0	1077.2	- 4
<u> </u>				····		9,07				85.88						433.1	323.0	58.3	0.0	0.0	603.0	1
- <b>a</b> è						9.07				65,88						433,1	323.0	58.3	0.0	0.0	545.8	
R						7.29				75.55						653,6	167.8	0.0	0.0	0.0	542.0	
-  ə :	süm∷ ¦	XIX	stats.	105.07	2012	- 105.07	943,03	23.52	ender 1	968.55	(					3087,50	4523,34	908.30	0.00	0.00	6020.50	
	Slab		101,98			101.98				0,00		(1FL Slab)	on Grade S	SUM)		8158.40						
	Slab	Fc:210ka/c	m2)			73,32				403.98		11386.0									1	
_	Slab					48.44				178.75												

CALCULATION
Detailed Design
on Port Reactivation Project
in La Union Province
CALC FILE No.:
CALC INDEX No.:
INITIAL DATE

Y.F.

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PREPARED BY

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TAKE-OFF SHEET

[ 3A03 CONCRETE AND FORMWORK ]

CONCRETE RE-BAR (m) FORMING Symbol Diameter Length Area (m²) Volume Width (m<sup>2</sup>) (m) Height Longth Height Width Numbers Q'ty D10 D13 D16 D19 D22 D25 D32 Qʻty Qʻty Symbol (mm) (m) (m) (m) (m) (m) 4F Slab 52.42 219.36 -----130.73 SF Slab 19.61 19,61 130.73 BF Slat ----RF Slab ...... 18.55 152.99 . .... 1215 53 333.92 1216.5 Siat SUM 101,98 231.94 25.75 257,58 1F Wall 151.50 2F Wall 15.15 15.15 151.50 3F Wall 151.50 4F Wall 15.15 5F Wall 151.50 15.15 6F Wall 15,15 151.50 101.51 1015.1 1015.07 Wall SUM 101.51 2F Balcon 8.06 107.52 8.06 3F Balcon 107.52 107.52 0.00) 4F Balcony 0.00 Salcony SUM 18,13 16,13 215.04 215.04 2F Parapet 7.22 22.43 62,68 65.10 9,80 147.28 157.08 4F Parapet 15,71 RF Parapet 10.97 37.68 72.00 109.68 Parapat SUM 33,89 69.91 351.86 351.88 33.89 281.98 394.38 (-1FL) TOTAL 909.1 1291.24 7215.3 200.38 7347.32 )R(曲雨) Base 2.8 0.80 6.50 11.40 0.80 9.12 B.L 2.85 2.85 4.25 11.4 51.3 51.3 2.85 - -153.0 22.8 36 2.60 2.60 218.4 218.4 CALCULATION en. 2.60 2.60 0.80 32.45 10.40 0.80 49.92 B.L 672.0 124.8 4 2.20 2.20 3.6 8.8 52.8 52.8 2,20 2.20 0.80 7.74 6.80 0.80 14.08 B.L 2 172.8

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	CALC FILE No .:			
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-	PREPARED BY	Y.7	-	Jul. O
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#### PORT ADMINISTRATION BUILDING

-7			CONC	RETE							1.											
			0010				•	FOR	VING							RE-8/	AR (m)					
	Symbol	Width (m)	Height (m)	Length (m)	Qʻiy	Volume (m²)	Width (m)	Height (m)	Qʻty	Area (m²)	Symbol	Diameter (mm)	Length {m}	Numbers	Q'ty	D10	D13	D16	D19	D22	D25	- D32
	F4	1.70			12		8.60		12			22	2.60	9						250.8		
		·									8.L T.L	16	1,70	14	12		950,4	285.6			ł	·
											T.L	13 13	3.3 8.6	24 2	12		205.4					
	F5	1.70	1.70	0.70		10.12	6.80	0.70	5	23.80		16	1.70	9	5			76.5			i	<u>—</u> —
	· · · · · ·			<u> </u>			0.00	0.10	······	20.00	B.L	16	1.70		5			76.5				
_											T.L	13	2.9				261.0					
										<u> </u>	<u>T.L</u>		6.8	2			65.0					├──
	F5A	1.70	1.70	0,70	1	2.02	6.80	0.70	1	4.76		15	1.70		1			15.3				
											B.L. T.L	16	1.70				62.0	15.3				<u> </u>
											ή <u>,</u>		5.8	2			52.2 13.5				;	<u> </u>
_	Jose .	SUM		VI - 2	1	101.25		,	di sela	184.24	1						2732.20	469,20	0.00	925.80	0.00	
	<u>د</u>										Ì					· · · · · · · · ·						
5.0	-B1	0.40	0.80	5.35	15	25,68	1.60	5,35		179.76	TB	32	6.00		15							30
										179.76	Y.8	32 32	6.00 2.23	2	15 15							30
											8.9 STR	32 13	6.00 2.40	- 4	15		1038.0					3(
											W.B	10	6.00	2	15	180.0	1000.0					
_								ł			Tle	10	0,40	7	15	42.0						
1,C 1	-B1	0.40	0.80	5,35	9	10.27					T.B	32	6.63	4	6							16
7-8											<u>т.ө</u> т.ө	32 32	2.23	1	8	_						1
										******	9.6	32	6.74	- 3	6. 8							1
											B.8	32	3.05	3	6							
										·	STR W.B	13	2,40	38 2	6	72.0	518,4					
											Tie	10	0.40		6							
;	B2	0.35	0.80	5,35		3.00	1.60	5.35	2	\$7.12	T.D.		13.97								41.9	
-ľ	52	0.00	0.00		4			3.35			8.6	25 25 13	13.97	3			ì				41.8	
~											STR	13 10	2.30	58	3	24.0	128.8					
		·	]								W.B Tie	10	6.00 0.35	2	2	24.0			i			
-1																						
f	82	0.35	0.80	7,58		2.12	1.60	7,58	1	12,12	B.B	25 25	17.93		- 1						53.8 53.8	
	82	0.35	0.80	7.03	1	1.97	1,60	7.03	1	11.24	STR	13	2.30	76	1		174.8					
						j					W.B Tio	10	8.0D 0.35		2	24.0						
			m																			
78 8	81	0,40	0.80	7.58	4	<u>9.70</u>	1.60	7.58		48.51	<u>т.е</u> т.в	32 32	10.36	4	4							10
								<b>_</b>			Т.В	32	2,25	31	4						[	
											8,8	32	10.38	4	4							16
- -											B.B STR	32 13	3.05	3 48	4	<u> </u>	460,8					
			——i								W.B	10	8.30	2	4	65,4	400,0		ł		••••••••	_

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## CALCULATION Detailed Design on Port Reactivation Project in La Union Province CALC FILE No.: CALC INDEX No.: PAGE 010 INITIAL DATE PREPARED BY 7-5 Jul. 61 GHECKED BY CALL Augoz

[ 3A03 CONCRETE AND FORMWORK ]

TAKE-OFF SHEET

CONCRETE

Width Height Length (m) (m) (m) Symbol 0,40 0.80

4.6 FB1

0.55

-----7.30 0.40 0.80 4.67 1.60

0.55

0.5

7,03

Volume

(m<sup>3</sup>)

9.0

Qʻty

Width (m)

1,6

8.80 3.18 3.05 8.80 3.05 2.40 8.00 0.40 STR W.B 13 9.01 3.05 9.88 3.05 9.01 0.55 0.80 7.03 1.60 7.03 22.50 5.19 32 B.B 8,8 R R STR ₩<u>.B</u> Tie

FORMING

Qʻty

Area (m²)

44.99

3.B

V.B

Tie

Symbol Diameter Length Numbers

8.53 2.25 3.05 8.53 3.05 2.40 7.73 0.40

Height (m)

7.03

9,88 3.05 2.70 7.73 0.55 248.4 30,9 9.08 3.05 9.88 3.05 9.08 9.88 3.05 2.70 8.28 0.55 0.80 7.58 6.67 24.26 T.B 1.60 7.58 B.B B.B \_\_\_\_ STR W.8 264,5 33 Tie 0.80 7.03 3.09 1.60

RE-BAR (m)

D10

61.8 12.8

32.0 7.2

Qʻty

D13

441.6

230.4

132.

16.

D16

D19

D22

D25

D32

136.5

36.6 138.5 36.6

70.4 6.4 18,3

70.4

72.1 24.4 19.8 12.2 72.1 19.8

24.4

72. 24.

19.8 12.2 72.6 19.8 24.4

45.1 9.0 45.1

45.4

4.5 12.2 45.4 12.2

9.01 2.25 9.01 2.70 8.28 0.55 T.8 8.8 \$7R W.8 124.2 18. i e 9.08 2.25 3.05 9.08 3.05 2.70 8.28 12.13 T.B 0.80 3.3 1.60 7,58

.B B.B STR W.B

0.55

CALCULATION **Detailed Design** on Port Reactivation Project in La Union Province

CALC FILE No .:			
CALC INDEX No.	:	PAGE «	>/1
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			CONC	RETE				FOR	MING							RE-B.	AR (m)					
T	Symbol	Width (m)	Height (m)	Length (m)	Q'ty	Volume (m <sup>3</sup> )	Width (m)	Height (m)	Q'ty	Area (m²)	Symbol	Diameter (mm)	(m)	Numbe/s	Q'ty	D10	D13	D16	019	D22	D25	D32
	•	0.55	0.80	7.30	1	3.21	1,60	7,30	1	11.68	7.8	32 32 32	8.80	5	1							44.0
ŀ											T.B	32	2.25 3.05	4	1 1							12.2
1											B.8	32	8.80	5		l				• •		44.0
- -						····			· · · · · · · · · · · · · · · · · · ·		B.B STR	32 13	3.05 2.70 8.00	48			129.6					12,2
1											W.B	10	8,00	2	1	16.0						
ŀ											Tie	10	0.55	9	'	5.0						
1		0.55	0.80	2.80	1	1.23	1.60	2.80	1	4.48		32	3.95	7								27.7 27.7
+									· · ļ		8.8 STR	32	<u>3.95</u> 2.70	7			78.3					
ľ											W.8	10	3.15	2	1	6.3						
1											Tie	10	0.55	4	11	2.2						
ž	ADD.					11.77	1.00	2.60	10	26.00	ADD	16	2.30	60	1			138.0				
	*G	ALD 1 1 1	المرد بدين			101:91	100			110.00		ا بر ا	en de la		1. 1	717:30	3940,20	- 138.00	0.00	in non	191.40	3080 88
ľ	•••••••••	SOM			1.1.1.4		- <sup></sup> 1	1.000		449.08		Carlor Carlor	e e se e se e	· · · · ·		1 11.00		.50,00	0.00	0.00	. 12040	3238.00
Ē	FB																					
Ē	F63	0.30	0.80	5.63	1	1.01	1,20	5.63		6.76	Т.В	25	6.64	3		l					19.9 19,9	
Į.	· · · ·										8.8 STR	25 25 13	6.64	3	1						19,9	
ŀ	·				• • •						W.B	13	1.80	30	1	12.0	54.0					
Ľ											Tie	10 10	0,30	2 7	1	2,1						
-		0.30	0.60	5.60		1,01	1.20	5.60		6.72	TB	- 25	7,00	3							21.0	
1		0.30			;			0,00			8.8	25 13	7.00	3	1					••••	21.0	
ļ-											STR W.B	13 10	1.80	29 2		12.0	52.2					
Ľ											Tie	10 10	6.00 0,30	2	1	12.0 2,1						
		0.30	0.60	5.53		1.00	1.20	5.53		6.64	TB	25	7.00	3							21.0	——i
1											8.8	25	7.00	3	1						21.0	
-											STR W.8	13 10	1,50 6,00	29 2 7		12.0	52,2					······
Ľ							<u> </u>				Tie	10	0.30	7	1	2.1						
ŀ		0.30	0,60	5,45	<u> </u>	1.96	1.20	5.45	2	13.08	TB	25	6,53	- 3	2						39.2	
-		0.00			·*			0.40			6.6	25	6,53	3	2						39.2	
-											STR W.B	13	1,80 6,00	29	2		104.4					
٣	j										Tie	10	0.30	27	2							
a	-83A	0.30	0.00	5,40		0.97	1.20	5.40		6.48	÷	25	7.02	3	1	<u> </u>					21.1	
15	<u> 094</u>	0,30	- 0.00	3,40				3.40	!		Т.В	25	2.41	4							9.8	
-											8.8	25	7.02	3	1			·			21.1	
<u> </u>										·	B.B. STR	25 13	2,41	4 28	1		50.4				9.6	
											W.B	13	6.00	2	1	12.0						
-	~~										Tie	10	0.30		1	2,1						
-		0.30	0,50	5,58	2	2,01	1.20	5,58	2	13.39	Υ.В	25 25 25 25 25 13	7.20	3	2						43.2	
								·			T.9 8.8	<u>25</u>	2.41 7.20	4	2						19,3 43. <b>2</b>	
L		i					j				8.8	25	2,41	4	2						19.3	
-			ł			Ì					STR W.8	13	1.80	28	2		100.8					
-							- <u>i</u> i-				Tie	10	6.00 0.30	2	2	24.0 4.2					[	
-	į,				]											1						
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CALCULATION Detailed Design ort Reactivation Project La Union Province LE No.: CALC INDEX No .: PAGE 0/2 DATE

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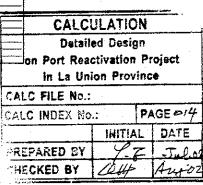
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#### ( 3A03 CONCRETE AND FORMWORK )

			CON	CNETE				FOR	AING							RE-84	AR (m)						
	Symbol	Width (m)	Height (m)	Lengih (m)	Qʻty	Volume (m <sup>2</sup> )	Width (m)	Height (मा)	Q'ty	Area (m²)	Symbol	Diameter (mm)	Length (m)	Numbers	Qʻty	D10	D13	D16	D19	022	D25	D32	1
		0.30			1	1.01	1.20	5.60	1	6,72		25 25	7.20 2.41 7.20 2.41	3		<u> </u>					21.6 9.6 21.6 9.6		1
-}								·····			1.6 8.8	25	7.20	3		d <u> </u>					21.6		1
											8.8 STR	25 13	2.41				50.4				9,6		-
•••											W.B	10				12.0	50.4						1
											Tie	10				1 2.1							1
		0.30	0.60	5.80		1.04	1.20	5.80	1	3.96	Т.В	25	7,42	3		· · · · · · · · · · · · · · · · · · ·		<u> </u>		i	22.3		1
											T.6	i 25	2.41	4		1					9.6		1
											8.9 8.6	25 25	7,42								22.3 9.6		-
_		•••									STR	13	1.80	30		i	54.0						1
		· ···-								<u> </u>	W.B	10				1 12.0 1 2.1	·						4
																· · · · · · · · · · · · · · · · · · ·							1
	FB4	0,25	0.40	4,28	<b>1</b>	0.43	0.80	4.28	1	3,42	T.6 B.6	25 25	<u>5.63</u> 5.63	2				·			11.3 11.3		-
-											STR	10	1,30	23		29.9							1
-		0.25	0.40	3.30		0.33	0.80	3.30		2.04	TR	25	4.26	2							8,5	<u>.</u>	-
-			×: <u>-</u> ×								8.8	25	4.26	2		ì			1		8.5		1
											STR	10	1.30	18		1 23,4			ļ				4
		0.25	0.40	3.30		0.33	0.80	3.30	1	2.64	T.9	25	4.92	2	· · · · · · ·	; i					9.6		1
_											B.B	25	4.92	2	-	1		L			9.8		-
÷										į	STR	10	1,30	18	<u> </u>	1 23,4							-
-		0.25	0.40	6.40	1	0.64	0.80	6.40	1	5,12	T.8	25 25	7,41	2		1					14.8		1
-						·'					8.8 STR	25	7.41	2		42.9		<b></b>		<b> </b>	14.8		4
1																							1
-		0.25	0,40	2.60		0.26	0.80	2.60		2.08	T.8 8.8	25 25	3.41							·	6.8 6.8	• • • • • • • • •	-
_				····							STR	10	1.30	14		18.2				<u> </u>			1
-1		0.25	0.40	2.36		0.24	0.80	2.38	·i	1.90	T 8	25	4.00								8.0		-
1			0.40	2.00			9,00	4.00			8.8	25 10	4.00	2		11					8.0		1
-											STR	10	1.30	13	1	16.9							4
	FB4A	0.25	0.40	4.10	. 1	0.41	0.80	4.10	1	3.28		25	5.72	2		· · · · · · · · · · · · · · · · · · ·			i		11.4		•
4					· · · ·						8.8	25 25	5.72 4.05	2							11.4 8.1		-
-1				·							8.8 STR	10	1.30	22		28.6			i	<u> </u>	0.1		•
_																							-
-	F84	0.25	0.40	1.40	2	0.28	0.80	1.40	2	2.24	8.8	25 25	3.02 3.02 1.30	22		2				·	12.1 12.1		ſ
											STR	10	1.30	8		2 20.8							1
-		0.25	0.40	3.23	. 1	0.32	0.80	3.23	<del>-</del>	2.58	T.B	25	4.85	2		d		· · · · · · · · · · · · · · · · · · ·			9.7		1
1											8.B	25 25	4.85	2	1	1					9.7		
-ł	······									Į'	STR	10	1.30	18		23.4				<u> </u>			1
_		0.25	0.40	2.65	1	0.27	0.80	2.85	1	2.12	T.8	25	4.27	2							8.5		-
-				+	·····						8.5 STR	25 10	4.27	2 15		1 19.5				<u> </u>	8.5		4
								·····						i					<u> </u>				1
ič.	F84	0,25	0.40	1.18	<sup>3</sup>	0.35	0.80	1.18		2.83	T.S 8.E	25 25	1.99	2		3			ļ		11,5 11.9		+
											STR	10		7	ļ	3 27.3							1
	F83	0.30	0.60	15.30		2.75	1.20	15.30		18.36	Te				1						49.0		+
									······	.0.30	B.B	25 25	16.32 16.32	3		1					49.0	íi	1
					ļ	·					STR	13	1,80	77		1)	138,5						-
		+++- +				- i					W.B Tie	10			·	1 <u>31.6</u> 1 4.8						H	br

CALCULATION Detailed Design Dn Port Reactivation Project in La Union Province CALC FILE NO.: CALC INDEX NO.: PAGE =/3 INITIAL DATE PREPARED BY Y. Z. Jul. A GMECKED BY (C.44) Aug 02

				RETE									<u>.</u>									
	l		com					FOR	MING		Ì					RE-B/	1.R (m)	· ·				
	Symbol	Width (m)	Height (m)	Length (m)	Qʻty	Volume (m <sup>3</sup> )	Width (m)	Height (m)	Q'ty	Area (m²)	Symbol	Diameter {mm}	Length (m)	Numbers	Qʻty	D10	D13	015	. D19	022	D25	D32
		0.30	0.80	0.55	2		1.20	0.55	2	1.32	T.B	25 25	2.17	3							13.0	
•											STR	13	1.80	4	2		14.4					
											W.B Tie	10	1,00	2		4.0 1.2						
		0.30	0.80			0.20	1.20	0.55	2				217	3							12.0	
	FB3A	0.30	0.80	0,55	·····	0.20		0.55		1,32	B.8	25 25	2.17 2.17	5	2						13.0 21.7	
											STR WB	13 10 10	1,80	4		4,0	14,4					
											W.B Tie	10	0.30	2	2	1.2						
-A_	F84	0.25	0.40	3.73		0.37	0.80	3,73	ii	2.98	Т.В	25	5.35 5,35	2	. 1						10,7	
											8.8 STR	25 10	<u>5,35</u> 1,30	20		20,0					10.7	
B-C	F83	0.30	0.80	5.83	2	2.03	1.20	5.63		13.51	<u>7.6</u> 8.8	25 25	6.64 6.64	3	2						39.8 39.8	
											STR	13 10	1.80	30			108.0					
									·		W.B Tie	10	6.00			24.0 4.2						
· • • • • •		0.30	0.60	5.60	1	1.01	1.20	5.60	<u> </u>	<u>6.7</u> 2	8.8	25 25	7.00	3	1						21.0	
											B.8 STR	25 13	1,60	29	1		52.2					
				<u> </u>			• • • • • • • • • • • • • • • • • • • •				W.8 Tie	10 10	6.00 0.30	7	1 1	12.0 2.1						
		0,30	0.60	6.60		1.01	1,20	5,60		6.72			7,51									
	· • · •	0.50	0.00	5.60			1,20				B.8 STR	25 25	7.61	3	1							
						• • • • • • • • • • • • • • • • • • • •				····	STR W.8	13 10	1,60 6,00	29	1				<u> </u>		ł	
											Tie	10	0.30	7	1							
		0.30	0.60	5.53		1.00	1.20	5.53	1	6.64	т.8	25	7.00	3	1						21.0	
_											8.B	25	7.00	3	1						21.0	
						ļi					STR W.B Tig	131	1.80	29 2	t 1	<u>12.0</u> 2.1	52.2					
ļ									····		Tio	10	0,30	7	1	2.1						
		0,30	0.60	5,45		0.98	1.20	5,45	1		T.B	25	6.00	3	1						18.0	
											8.8 STR	25	<u>6,00</u> 1.80	3 29			52.2	·····			18.0	
				••							W.B	25 25 13 10	6.00	2	1	12.0						
					i						Tie		0.30		1	2.1						
		0.30	0.60	5,45	1	0.98	1.20	5.45	1	6.54	Т.В.	25 25 13	7,00	3	1						21.0 21.0	
			····								B.B STR	13	1,80	29	î	·	52.2				21.0	
_											W.B Tie	10	6.00 0.30	2	1	12.0						
																		; ·				
		0.30	0.60	5.53	1	1.00	1.20	5.53		6.64	T.B B.B	25 25	6.00 6.00	3							18.0	
											STR	13	1.80		1		52.2					****
—									•••••••	·	W.B Tie	10	8.00 0.30	<u>2</u> 7		12.0	·····					
									·													1
		0.30	0.80	5.60	1	1.01	1.20	5.60	1	6.72	т.а 8.6	25 25	7,61	- 3	1						22.8 22.8	<b> </b>
											STR W.B	13	1.80	29	1		52.2					<b> </b>
				<b></b>							VV.B Tie	102	0.30	7	1	12.0				<u> </u>		· · · · · ·



( 3A03 CONCRETE AND FORMWORK - )

TAKE-OFF SHEET

16

			CONC	RETE				FOR	AING							RE-84	AR (m)-					
	Symbol	Width (m)	Height (m)	Length (m)	Qʻty	Volume (m²)	Width (m)	Height (m)	Qʻiy	Area (m²)	Symbol	Diameter (mm)	Length (m)	Numbers	Q'ty	D10	D13	D16	D19	Dzż	D25	D32
_	F84	0,25	0.40	3.80	1	0.38	0.80	3,80	1	3.04		25 25	4,76		1			·			9.5	
			·			·····					8.8 STR	25	4.76	201							9.5	
		0.25	0.40	3.65		0.37	0.80	3.65		2.92		25									9.2	
		0.23									8.8	25 25 10	4.61	2,							9,2	
											STR			(								
		0.25	0.40	3.65		0.37	0.80	3.85	1	2.92	6.6	25 25 10	5.27	2 2	1						10.5 10.5	
		<b>_</b>		*							STR	10	1.30			26.0						
		0.25	0,40	3.53	1	0.35	0.80	3.53	1	2.82	T.B 8.8	25	4.49	2	1						9.0 9.0	
											STR	25 10	1.30	2 19	1							
		0.25	0.40	3.53	1	0.35	0.80	3,53	1	2.82		25	5,15		<u>1</u>						10.3	
				•							8.8 STR	25	5.15	2		24.7				·	10.3	
		0.25	0,40	3.53		0.35	0.80	3.53	1	2.82	T.B	25	3.88		1			-			7.8	
_					- <u></u>						8.8	25 25	3.88	2	1						7.8	
_							· · · ·				STR	10						L		<u> </u>		
_		0.25	0.40	3,18	1	0.32	0.80	3.18	1	2.54	1.6 8.6	25 25	4.80								9.6	
											STR	10	1.30	17	1			ļ				
_		0.25	0.40	1.55		0.16	0.80	1,55	1	1.24	Т.В	25 25	3.17		1						6.3	
_											STR	10	3.17	9			,				6.3	
	Fas	0.30	0.60	3.43	2	1.23	1,20	3,43	2	8.23		25	4.74	3	1			<u> </u>		·	14.2	
											8.8 STR	25 13	4,74	31	1		34,2		<u>}</u>	;l	14.2	
											W.B Tie	10	6.00	2	1	12.0			· · · ·			
_																						
¢	F83	0.30	0.80	5.53		1.00	1.20	5.53	<u> </u>	5.64	<u>T.B</u>	25 25	7.74	3	1						23.2 23.2	
											STR W.B	13		29			52,2					
											Tie	10			1	2.1		ļ				
		0.30	0.60	5.65	1	1.02	1.20	5.65	1	6.78		25	6,74	3	1						20.2	
											B.B STR	25 25 13	6.74 1.80		1		54.0				20.2	
	·										W.B Tie	<u>10</u> 10	6.00	2	1	12.0						
ا <del>ہ</del> ۔ ا	F84	0.25	0.40	4.18		0.42	0.80	4.18		3.34											11.6	
		v.23	0.40	4 [0	1	0,42	0.80	<u></u>			8.8	25 25	5.80	2	1						11.6	
_											STR	10			1							
		0.25	0.40	3.15	1	0.32	0.80	3,15	1	2.52	T.B 8.3	25 25	4.77		1						9.5 9.5	l
											STR	25 10	1.30		<u>† †</u>	22.1						

CALCULATION Detailed Design on Port Reactivation Project in La Union Province CALC FILE No .:

CALC INDEX NO .: PAGE 0/5 1HITIAL JOIN 7-8 Jul

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Jul

( 3A03 CONCRETE AND FORMWORK )

PORT ADMINISTRATION BUILDING

1			CONC	RETE				FOR	MING	1.1						RE-B.	4R (m)					
	Symbol	Width (m)	Height (m)	Length (m)	Q'ty	Volume (m³)	Width (m)	Height (m)	Qʻty	Area (m²)	Symbol	Diameter (mm)	Length (m)	Numbers	Q'ty	D10	D13	D16	D19	Dźz	D25	D3Z
0	FB3	0.30	0.60		1		1.20	8.00		7.20		25	8,01		1			}			24.0	
				<b>.</b>					(曲面)		B.B STR	25	8.01 1.80				55.8	ł	<u> </u>		24,0	
											W.B	10	6.00	31 2	1	52.0						<u> </u>
											Tie	10	0.30	7	1	2.1						
		0.30	0.60	6.00		1.08	1.20	6.00		7.20	T.E		7.01	3	· - ··· · · · · · · · · · · · · · · · ·						21.0	
		0.30				,		0.00	(曲)(曲)		8.B	25	7.01	3	1						21.0	
											STR	13	1.80	3	1		55.8					
			••••• <b>•</b>			·				. <u> </u>	W.B Tie	10 10	5,00 0.30	21	1	12.0 2.1		·				<u> </u>
											1.00		0.00	<u>^</u> ;	'							1
		0.30	0.60	5.65	1	1.02	1,20	5.65	1	6,78	Т.В	25	7.26	3							21,8	
										<u> </u>	8.6 STR	25	7.25	3 30	1		54.0				21.8	ł
											W.B	13	8,00	2							ł	t
											Tle	10		2				1				i
	F83A	0.30	0.60	2.30		0.41	1,20	2.30		6.76	т.в	25	3.61	3	1			<u>}</u>		]	10.8	<u>i</u>
	resa	0.30	0.00	2.30		<u> </u>	<u>1,2</u> V	<u></u>		2,76	6.6	25	3.61	3				<u> </u>			10.8	
											STR	13	1.80	13	1		23.4	1	i			j
							í				W.B	10		2	1							
					·						Tie	10	0.30	4	1	1,2						<u>}</u>
						j <del></del>																i
		SÚM 🔆		in de la		26.61		1212		254.20						934.70	1435,40	0.00	0.00	0.00	1709.74	0.77
	C(-FL)	0.70	0.65			0.00	2.70	0.80	10	21.60		32	3,58	18	10			<u>}</u>	<u> </u>			64
	×					0.00				0.00	hoop	13		12	10		290.4	1				
						0.00				0.00	tie	10	0.7	6	10	42.0						
	<u>C1</u>	0,70	0.65	1.30	10	5,92	2,70	1,30	10	35.10	M.B heep	32	4,08		10		435.6		<u> </u>			73
_						0.00				0.00	tie	10	0.7	9	10	63.0			<u> </u>	····		<u> </u>
	C2	0.75	0.65	0.80	7	2.73	2,80	0.80	7	15.68		32	3.58		7							45
						———					hoop	13		12:	7	39.2	193.2		I			<u>}</u>
	C(-1FL)	SUM:	ar prof	esse (	5 80 C	12.29	5896 (A.S.	e et gale	he had	72.38	<u></u>		<u> </u>			144.20		0.00	0,00	0.00	0.00	1829
-	C(IF)					0.00				0.00						1 · · · ·						
	C1	0.70	0.85	5.20	20	47.32	2.70	5.20	20		M.B	32 13	<u>5.2</u> 2.42		20		3386.0					187
*****											tie	10	07	18	20 20	252.0	3306.0			<u> </u>		
_	C2	0.75	0.65	5.20	7	17.75	2.80	5.20	7	101.92		32 13	5.2 2.3	1B	7							65
						0.00			·	0.00	hoop	13	2.3	24	7	117.6	1127.0				<u> </u>	<u> </u>
	C(IF) ់	suм. 😒			i shi sh		الم بيني وال	1871 - C		352.72	·····		0.1		/		4515,00	0.00	0.00	0.00	0.00	2527.
	C(2F)		1			0.00		]		0.00									1			1
	<u>C1</u>	0.70	0,85	3,80	14	24,21	2.70	3,80	14	143.64	M.B hoap	32 13	3.8	18 50	14		1694.0		<u> </u>			95
						0.00				0,00		10	0,7	15	14	147.0		j				
	C2	0,75	0.85	3,80	7	12.97	2.80	3.90	7	74.48	M.8	32 13	3.8	18	7				1			47
							·			4.44	hoap		2.3	50			805.0					
	C(2F)	SUM	see!	en al d	en pas	0.00 37.17	aned,	العصيفات		0.00 218.12	(ig	10	0.7	20	7	98.0 245.00	2499.00	L	1	0.00	::::	
	C(3E)					0.00	·			0.00								0.00				1
	<u>C1</u>	6,70	0,85	3,80	14		2.70	3.80	14	143.64		32	2,3	18	14		100.0					57
[	···					0.00				0.00	hoop	13) 10	2,42	<u>50</u> 15	14	147.0	1694.0			<u> </u>		-
	C2	0.75	0.65	3,80	7	12.97	2.80	3.80	7	74.48		32 13	0.7 3.8 2.3	18	14 7 7			i				47
											hoop	13	2.3	50	7		805.0	<u> </u>				
						0,00				0.00		10	0.7	20		98.0						

CALCULATION Detailed Design on Port Reactivation Project in La Union Province CALC FILE No .: PAGEOIG CALC INDEX No .: INITIAL DATE Jul BODDOASED BY Ċ SHECKED BY

9 of 28

TAKE-OFF SHEET

18

Ι			CON	RETE .				FORM	AING							RE-8/	AR (m)					
	Symbol	Width (m)	Height (m)	Length (m)	Qʻiy	Volume (m <sup>3</sup> )	Width (m)	Height (m)	Q'ty	Area (m²)	Symbol	Diameter (mm)	Length (m)	Numbers	Qʻty	D10	D13	D16	D19	Ď22	D25	D32
-	C(4F)	t t				1 0.00																
	Ç2	0.75	0.85	3.80	7	12.97	2.80	3.80	7	0.00	M.B	32	3.8	18	7							478.8
-						0.00				0.00	hoop	13	2,3	50 20	7	07.0	805.0					
-1						0.00				0.00	<u>lie</u>	10		20		95.0				•	*	
_	C(4F); 🖓	SUM		i de la composición d		12.97	5. S. S.	1.200		74.48	1					98.00	805.00	0,00	0.00	0.00	0.00	478.80
-	6/66)					0.00				0.00	•••••				·	<b></b>						
	C(5F) C2	0.75	0.65	3,80	7	0.00	2.80	3.80	7		M.B	32	3.8	18	i							478.
						0.00					hoop -		3.8 2.3 0.7	50			805.0					
-	C(5F)	SUM``;;;	18 C. 1	ايح ما	1242	12.97	14.00	i se ta a	e and the second	0.00 74,48		10	0.7	15	<u> </u>	73.5	845.00	0.00	i nine'			478.8
						0.00				0.00				·		]			0,00			
_	C(6F)					0.00				0.00												
-	C2	0.75	0.65	3,80		12,97	2,50	3.80	(	74,48	1000	32	2.3	18	7	· · · · · · · · · · · · · · · · · · ·	805.0					289.
_				· · · · · ·		0.00				0.00	tio	10	2.3 0.7	15	7	73.5						
	C(6F)	SUM	1	ř 😳 🖄	1.11	12.97	ï:''	l i i	547 B)	74:48						73.50	805.00	0.00	0.00	0.00	0.00	289.80
	C(+1FL)	SUM	$C_{\rm ext} = 0.1$		1	178.31		ارس رسینی از ا	9 is N 12	1042.40		(			1	1104,80	11928.00	0.00		0.00	0.00	6269.40
-	2G										·				·							
					· · · · · · · · · · · · · · · · · · ·									/								
2.7	282	0,35	0.65	5,35	¢	7,30	1.85	5.35	6		T.8 T.8	32										120.4 52.4
<u>"</u> [								•	· · · · · · · · · · · · · · · · · · ·		T.8	32	2,23	. 3	6				· · · · · ·		·	40.1
-											8.9 9.8	32	6.69 2.91	3	<u>5</u>							120.
							····· ··· ···				B.B	32	2.23	2	e 6					·····		34.1 26.
											STR	32	2 6.15	28	6							
~		<u> </u>					·····				W.B Tie	16	0.35	2	1 6	14.7		73.5				
;	282	0.35	0.65	5.35	9	10.95	1,65	5.35	9	79,45	T.B T.B	32 32	7.28	3								196.0
ž-									••••••		8.8	321	2,23	6				•••				196.0
											B.B	32	2.23	4						· · ·		80,
[							·				STR W.8	13	6.15	28			504.0	110.7				
											Tie	10	0.35		<u> </u>	22,1						
-	282	0,35	0.65	5.35	6	7.30	1.85	5.35	6	52.97	<del>~~</del>	32		3	····							
-									×		Ť.В	32	2.23	6	6							108.0
-				•	·				· · · · · · · · ·		8.8 8.8	32	6 2,23	3								108.0
-											STR	13	2	28	6		336.0					53.5
											W.B	16	8,15 0.35	2	6			73.8				
								<u> </u>	·····		<u>Tie</u>				<u> </u>	14./			· . · · · · ·		<u> </u>	
_	266	0.35	0.65	5.35	2	2,43	1.65	5.35	2	17.66	Т.В	32	13.28									39.8
-ŀ								- <b></b>  ·			8.8 8.6	32 32	13.28 2.68	3								39.6
				-							B.B STR	13	2	28	2		112.0					
-											W.B	16 10	6,15	2	2			24.6				
-1											<u>Tie</u>	<u> </u>	0.35	<u>'</u>	2	4.9			- ^			
															•••						·	N.
÷											-											
																	· .					II.
												1.									1	l
																						L C

CALCULATION Detailed Design Port Reactivation Project in La Union Province FILE No .: CALC INDEX No .: PAGE OF INITIAL DATE Jul.02  $\varphi$ WINDOWSKI BY F 1644-Aujoz

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#### QUANTITY CALCULATION SHEET

PORT ADMINISTRATION BUILDING

-			CONC	RETE				EOP	MING		[					RE-9	R (m)					
-						Volume	101.415			Area		Binneter		· •		KE-0/				· . r	; 1	
	Symbol	Width (m)	Height (m)	Length (m)	Qʻty	(m²)	Width (m)	Height (m)	Q'ty	(m²)	Symbol	Diameter (mm)	(m)	Numbers		Dia	D13	D16	D19	D22	025	D32
-	288	0.35	0,65	1,65		0.75	1,66	1.65	2	5.45	1.8	32	2.58	3	2					<u> </u>		15
-											9.8 STR	32 13	2	10	2		40.0					
											W.B	16	2.1	2	2			8,4	······			
			~··		··	i					Tie	10	0.35	3	2	2.1				<u> </u>		
	262	0.35	0.65	7.30	2	3.32	1.65	7.30	2	24.09		32	16.6	3	1					<u>i – – – – – – – – – – – – – – – – – – –</u>		5
											T.8	32	2.91	6	1							
											T.8	32	4.5	3	1							
-											8.0	32 32 32 32 32 32	2.91 4.5	Ă						ì		1
											B.B	32	4.5	2	1							
											STR W.B	13 18	8,1		1		152.0	32,4				
					·						Tie	10	0.35	9	2			¥#67				
															*****							
3,7	261	0.40	0.75	7,30		17,52	1,90	7.30	8	110,96	<u>T.8</u>	32	18.6									29
	- ·i					è					<u>T.8</u> T.8	32 32 32	2.91 4.5 18.5									4
• • • • •											8.6	32	18.5		4							29
										i	8.8 8.6	25 25 13	2.41	4						ļ	38.6	
											STR	13	3.9 2.3	76			699,2			<u> </u>		
			··· }								W.B	16	8,1	2	8			129.5				
1							·			سجسي سأعه	Tie	10	0.4		8	28.8						
5.6	2B1A	0.40	0.90	7.30	6	15,77	2.20	7,30	6	96.36	тв	32	18.6									22
<u> </u>	<u></u>										T.3	32 32 32	2.91	4	6							6 5 22
											<u>T.B</u>	32	<u>4.5</u> 18.6	4	3							- 5
			ļ				•••••		•••••		B.B 6.5	32	18.6	4			*					22
			)								8.8	32 32 13 16	4.5	2	. 3							2
_											STR	13	<u>2.6</u> 8.1	38	6		592.8					
[											W.B Tie	16	8.1	2	6	21,6		97.2				
			*****													<u></u>						
	282A	0.35	0.65	7.30	3	4.93	1.65	7.30	3	36.14	T.B	32 32 32	8.66	3	3							7
D.											<u>т.в</u> т.в	32	2.91	2								1
					i						8.6	32	2.25 9.36		3							1
											8.6 STR	32 13	2	38			228.0					
_											W.B	16 10	8.1 0.35	2	3			48.6				
											Tie		0.00			9.5						
6		0.35	0.65	1.95	2	0.89	1.65	1.95	2	6,44	т.в	32	2.9	5	2	<u> </u>						- 2
6											8.8	32 32 13	2.9	4	2					2		2
-1					•••••					<u> </u>	STR W.B	13	2.35		2		44.0	9,4				
-1	·			;		<u> </u>					Tie	18 10	0.35	2	2	2.1		3.4		}	<u> </u>	
_Ì			1											{			•					
_		0.35	0.65	4,25	1	0,97	1,65	4,25	1	7,01		<u>32</u> 32	6,48	5	1							3 2
-				··			·				8.8 STR	32	<u>6,48</u> 2	4	. 1		46.0					2
-											W.B	16	4.65	2	· · · · · · · · · · · · · · · · · · ·			9.3				
_											Tie	10	0.35	5	1	1.8						
	2G	sum:	• •	ł		72.19	1	!		489,47								أحديه ومتعدا		ورود مرامر	69.76	· · · · · · · · ·

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## CALCULATION Detailed Design on Port Reactivation Project in La Union Province CALC FILE No.: CALC INDEX No.: PAGE 0/8 INITIAL DATE PREPARED BY J. F. Jul.o CHECKED BY Laff Mgor

TAKE-OFF SHEET ( 3A03 CONCRETE AND FORMWORK )

	<b></b>			CRETE					·												
		1	· · · · · · · · · · · · · · · · · · ·	WEIE			FOR	MING							RE-B/	ላጽ (ጠ)					••
	Syr 3G	mbol (m)		Length (m)		lumo Wie n <sup>3</sup> ) (n	dth Hoight n) (m)	Qʻty	Area (m²)	Symbol	Diameter (mm)	Length (m)	Numbers	Qʻty	D10	D13	D16	D19	D22	D25	D32
			.35 0.65	5.35		7.30	1.65 5.35		52.97	TR	12	6.69		6							12
	A.B.C 3B2 2-3,7-8				×					T.8	32 32	6.69 2.91	3	6							12 5 4 12 3 2
										T.8 B.8	32 32 32 32 32 32	2,23 6,69 2,91 2,23	3	6							12
							•••••			B.B	32	2,91	2	6 6							<u>3</u> 2
										STR W.B	13	2 6.15 0.35	28			336.0	73.8				
										Tie	10			6	14.7	·					
	3-4 3B2 5-6	0	35 0.65	5,35		10.95	1.65 5.35		79,45	<u>T.B</u>	32 32	7,28 2,23 7,28 2,23	3	- 9	. <u> </u>						19 12 19
	6.7			·						B.6 9.8	32 32	7.28	3								190
and the second										STR	13	. 21	- <u>28</u>	9		504.0					
										W.B Tie	13 16 10	6.15 0.35	2	9	22.1		110,7			]	
	4-5 3BZ		35 0.85	5.35	3	3.65	1.65 5.35	3	25.48	T.8	32	6	3	3							5
										T.8 B.B	32	2.23	6	3	+						54 4( 54 20
· · · · ·										B.B STR	32 32 321 321 321 13	6 2.23 2	4	3		168.0					21
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· · · ·										Tie				3	7.4						
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										1.8 8.8	32	18.6 2.91 4.5 18.5 2.41 3.9 2.3 8.1	2								3 29
										9.B 8.B	32 25 25	2.41	4	4						38.6 31.2	
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										Tie	10	0.4			28.8		23,0	`			
	4,5,6 3B1	<u>a 0</u>	.40 0.90	7,30	6	15.77	2.20 7.30	6	96.36	7.8	32 32	18.6	4	3							22
•										Т.В Т.В	32	18.6 2.91 4.5 18.6									6! 5
										8.8	32 32	18.6	4	3 6							22 6 5 22 5
										B.B STR	32 32 13	2.91 4.5 2.6	2 38	3		592.8					2
										W.B	16	<u>8.1</u> 0.4	2	6			97.2			• • • • • • • • • •	
										Tie	10		Q	0	21.6						
	3G	SUM	. ::			55.20			366,22		<u>}</u>				94.50	2300.00	448,20	0.00	0.00	59;76	2491.
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		59								T.B 8.8	32	2.23	3								12
CALCULATION										8.8 6.5 5.8	32 32 32 32 32 32 32 32	6.69 2.91 2.23 6.69 2.91 2.91 2.23	2	6							12 5 4 12 3 2
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ļ			CONC	RETE				FOR	MING							RE-B/	4R (m)			· · · · .		
	Symbol	Width	Height		Q'ty	Volume	Width	Height	Q'ty	Area	Symbol	Diameter	Length	Numbers	Q'ty	D10	D13	D16	D19	D22	D25	ס
	482	(m) 0.35	(m) 0,65	(m) 5.35	9	(m²) 10.95	(m) 1,65	(m) 5.35		(m <sup>2</sup> ) 79.45		(man)	19417	[ · ]		<u>.</u>						
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7											8.8	32	7.28	3	ĝ							
											8.B	32	2.23	1 4	9 9 9							
											STR	13	2	28			504.0					
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						· ·					110		0.33									
5	482	0,35	0.65	5.35	3	3.85	1.65	5.35	3	26.48	T.8 T.8	32	6		3							
						(					7.8	32	2.23	6	3							
		· 									B.B	<u>32</u> 32	6		3							·
						i					<u>6.6</u>		2,23	4 4	3							
						·					STR	13			3		168.0					
ļ											W.B	16	8,15		3			36.9				
						·					Tie	10	0.35	<u>├~~~-/</u> +	3	· ····································				· ———-		
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					····				•		T.8	32	4.5	4	<u>3</u>					·		
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_											8.B	32	2.91	3	6		•	,				
											8.B	32 ;	4.5	2								
						j					STR W.B	13	2.6	38	<u></u> 8	·	592.8	97.2				
											Tie	10						87.2				
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8	487	0,35	0.60	7.58	4	6.37	1.55	7.58	4	47,00	<u>T.8</u>	32	8.94	2	4	ii						
3,7											т.в	32 32	2.91	1	4	]]	]			· · · ·		
											т.в	25	2.41		4						19.3	
											<u>T.</u> B	32	2.25	3	4		·!	(				
						i					8.6	25 25	8.74 6.04		4	{					174.8	
•				· ——				······	~~~~		8.B STR	13	1.9		4		296,4			·	24.2	
				· · · · · · · · · · · ·							W.B		8.35				290.4	67.0				
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C	4B7	0.35	0.60	7.03	4	5.91	1.55	7.03	4	43.59	T.8	32	9.67	2	4							
7.											<u>Т.8</u> Т.8	32	2.91		4							
							·				T.8	25	2.41	2	4						19.3	
											T.8	32	2.25	3	4							
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-ŀ						<u> </u>				··	B.B STR	25 13	5.63	37	4	{	281.2			i	22.5	
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	iG [])	SUM				49,95	41 I. F.	805 - ja	1.5	345.84						90.90	2178.40	448,28	0.00	0.00	453.44	20
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-f	~		{														•					
· · · ] 5	5B1	0.40	0.75	7.53	2	4.52	1.90	7.53		28.61	TB	32	9.55	<u>_</u>	2				····-·			
_1°					7						TB	32	2,91		2							
_							·····				SB	32 32	2.91 9.55	4	2							
	1207 N. 180										8B	32	2.91	4	2							
_1											STR	13		39	2		179,4					
		······				l					W.E	16	8.33		2			33.3				
<u> </u>	يذا استحص	ann an								· .	Tia	10	0.4	9.	2	7,2	1					

Detailed Design on Port Reactivation Project

CALCULATION

in La Union Province CALC PUP A

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					CONC	RETE		T		FORM	ING							RE-B	AR (m)					
	· .		Symbol	Width	Height (m)	Length (m)	Q'ty Volu			taight (m)	Q'ty	Area (m²)	Symbo	Diameter (mm)	Length (m)	Numbers	Q'ty	D10	D13	D16	D19	D22	D25	D32
			581	(m) 0.40					1.90	(m) 6,93	1	(m²) 13,17	те	(mm) 32 32		4					<u> </u>			35
·							· ·		_				TB 8B	32	8.95 2,91 8.95 2,91 2.3 7,73 0.4									35 17 35 11
													58 STR	32 32 13	2.91		1		82.8			·		
													W.B	18	7,73	2 	1		1	15,5				
													<u>Tio</u>	10				3,2	i					
			5B2	0,35	0,65	5.35		.87	1.65	5,35	4	35,31	TB TB	32 32	7.37	4	4	·						46
1.1													88 88	32 32	7.37 2.91 7.37 2.91		4							117 46 117 46
· · · · · · · · · · · · · · · · · · ·													STR	13	2	25	4		224.0					
													W.B Tie	16	0.35	2 7	4	9.8		49.2				
			587	0.35	0.60	7,53		.58	1.55	7.53	1	11.87	TR.			1								
											······································		TB	32 32 32	9.55  9.55	2	1							38. 5. 38.
						(			(·	······	••	•	68 STR	13 13	1.9	39	1		74.1					38,
													W.B Tie	16	1.9 8,33 0.35	2	1	3.2		16,7				
			587	0,35	0.60	23.00		83	1.55	23.00		35.65												
						23.00	······			- 20.00	!		TP	32 32	26.3 2.91 26.3	4	1							105 11
	10 A					<b></b>							85 STR	32	1.9	116			220.4					105.
			*****										W.B Tie	16	23.8	2 24				47.6				
				İ	<u>.</u>				(R	008 26) 35.65	•••••• •••		110	10	0.35		!	8,4						
			5G	SUM		I	17	88.	<u></u> }	35.85		88.76	•					31.75	780,70	162.24	0.00	0.00	0.00	. 944.9
		-	8G	<u></u>									·····										-	
· .			681	0.40	0.75	7.53	2	52	1.90	7.53	2	28.61	T8 T8	32 32		4					ļ			76. 34. 76. 23.
		_											58 88	32	9.55	4	2						•••••	76
													STR	32 13	2.3	4	2 2 2		179.4					23.
			• • • • • • • • • • • • • • • • • • • •	}									W.B Tie	16 10	0.33	2	2	7.2	<u> </u>	33.3				
			681	0.40	0.75	6.53	1 2	08	1.90	6,93		13.17	70											
										0.83			TB	32 32	8,95 2.91	4								35. 17. 35. 11.
						<b></b> ]						·	88 88	32 32	8.95 2.91 2.3 7.73	4	1		<u>}</u>					35
													BÐ STR W.B	13 16	2.3	36	1		82.8	15.5				
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			882	0.35	0.65	5.35	4 4	87	1,65	5.35		35.31	78	32	7,37 2.91 7.37 2,91	4	٤							117
		-					• •						TB 88	32	2.91						· · · · · · · · · · · ·			<u>117.</u> 46. 117.
						11 - <b></b>							88 STR	32 32 13	2,91	4 28			224.0					46.
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Detailed D	esian												BB STR	32 13	9.55	4	1		74,1					5. 38.
ort Reactiva	tion Deal												W.8	16 10	1.9 9.33 0.35	- 39	1			16.7				
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				CON	RETE				FOR	MING							RE-B	AR (m)					
		Symbol	Width (m)	Height (m)	Length (m)	qıy	Volume (m²)	Width (m)	Height (m)	Q'ty	Area (m²)	Symbol	Diameter (mm)	Length (m)	Numbers	Qʻty	D10	013	D16	D19	DZZ	D25	D32
		687	0,35		23.00	1	4.83	1.55		1	35,65	тв	32	28.3	4	1		[					10
-												TB BB STR	32 32 13 16	28.3 2.91 26.3 1.9	4								10 1 10
												STR	13	1.9	116	1		220.4					
· · · · ·			·/	ļ								W,B Tie	16	23.8 0.35	2 24			<u> </u>	47.6	·			
	I			<u> </u>			17.60		(R曲面)								1						
		8G	SUM	j <sup>int</sup> i I	L I		17.60		35.65		88.76						31.75	780,70	162.24	0.00	0.00	0.00	944
		RG																					<u> </u>
	1	RBZA	0.35	0.65	7,53		5.14	2,00	7.53	3	45.18	TB	32	9.55		3							114
												TB	32 32 32 13 16 10	9.55 2.91 9.55	2								17
												BB STR	13	9,55	39	3		234.0					114
												W.8 Tie	16	8.33 0.35	2	3	9,5		50.0				
														1									
		R82A	0.40	0.75	6.93	·1	2.08	1,90	6.93	1	13.17	TB TB	32 32 32	8.95		1			·····				39
												ТВ В8	32	2,91 8,95	4	1					·····		3
								**		;		STR W.B	13 16 10	7.73	36			72.0	15.5				
												Tie	10	7,73	8	1	2.8						
		R82	0.35	0.65	5.35	4	4.87	1.65	5.35		35.31	тв		7.37		4							11
											35.31	те	32 32 32 32	7.37 2.91 7.37 2.91	4	4					·		4
		••••••										88	32	2.91	4	4			·				- 11
												8B STR W.B	13	2	28	4		224.0					
												Tíe	10	<u>6,15</u> 0,35		4			49.2			<b></b>	
		RB7A	0.35	0.60	23.00		4,83	1.55	23.00		35.65		32		3								
								(.55		<u> </u>	· · · f	18	32	26.3 2.91 26.3	2	1							78 
	·											BB STR	32	26.3	116	1		220.4					78
												N.B	16	1.9 23.8	2			220.4	47.6	·			
									Rabani)			Tie	10	0.35	24	1	8.4						
	<u> </u>	₹G::::	SUM	under d	a nati	star þ.	16.92	eret er	R#116) 35.65	01 - M	93.66						30.45	750,40	<u></u>	0.00	0.00	ം രാം	816
																				<u> </u>			
		28		···																			
	<u>г</u>																						
	A C 1	283	0.30	0.55	5.60		3,70	1.40	5,60	4	31.36	TB TB	. <u>25</u> 25	8.61 1.93	3	4						79.3	
- -											[	3B :	25	6.61	3	4						79.3	
							ļ+					N.8	13 16	6.61 1.7 6.4 0.3	29 2	4		197.2	51.2		~		
												Tie	10	0.3		4	8.4		31,2				
		2B3	0.30	0.55	5.60		6.47	1.40	5.60	7	54.88	гв	25			7						126.0	
CALCULATION												18 16 36	25 25 25 13	1.93	3	2				Ì		13.5	
												STR	13	1.7	29	7		345.1				125.0	
Detailed Design							—— ·-		ŀ			N.B Tie	18	6.4 0.3		7	14.7		89.6				
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a Maria da Barda da Barda. Novembro da Carlo da					· · · ·			• .	· .													
		1		CONC	RETE				FOR	MING						RE-B.	AR (m)			. '		
	-	Symbol	Width (m)	Height (m)	Length (m)	Q'IY	Volume (m <sup>3</sup> )	Width (m)	Height (m)	· Q'ty	Area (m²)	Symbol	Diameter (mm)	i (m)	Qʻty	D10	D13	D16	D19	D22	. 025	D32
	A-B		0.30		5,60			.1.40	5.60	4	31.36	TB TB	25 25 25 13 16	7.22 3 2.41 2 7.22 3 1.7 29 6.4 2	4						86.6 19.3	·· · · · ·
	5-8											88	25	7,22 3	4						86.6	
												88 STR W.8	13	7,22 3 1.7 29 6.4 2	4	¦	197.2	51.2		i		
		-					<u></u>					Tie	10	0.3 7	4	8,4						
	·	283	0,30	0.55	5,85	2	1.93	1.40	5.85	2	16.38	TB	25	7.47 3	- 2				<u> </u>	<u>.</u>	44.8	
												T8	25	7.47 3 2.41 2 7.47 3					<u>}</u>		9.6 44.8	·
		-	- <del></del>		•••••					[·	í	T8 8B STR	25 25 25 13	1.7 31	2	1	105.4					
		]										W.8	16	1.7 31 6.4 2 0.3 7		4.2	}	25.6		<u>}</u>		
		-	-		···					<u></u>		Tie			·*	<u>•.</u>		ļ	÷	\·		
		283	0.30	0.55	2.73	2	0.90	1.40	2.73	2	7.64	78 78	25 25 25	4.35 3 2.41 2 4.35 3 1.7 15	2						26.1	
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#### PORT ADMINISTRATION BUILDING

symbol         Wein         House         Gay         Wein         House         Gay         Add         House         Gay         Add         Ora				ĺ		CON	CRETE		1	FO	RMING							RE-BA	AR (m)					
199       3.49       5.69       7.29       3.69       3.59       4.59       3.63       3.63       3.64       3.65				Şymb		(m)	(m)				Qʻty	Area (m <sup>2</sup> )	Symbol	Diameter {mm]	(01)	1	Qʻiy	D10	Q13	D16	D19	D2Ż	D25	D32
66         238	· .			295		5 0.40	2.73				32	5.73			4.35	2	2						17.4	
66         238         238         3 04         209         228         3 27         7         2 37         3 24 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>88</td> <td>25</td> <td>4.35</td> <td>2</td> <td>2</td> <td></td> <td></td> <td>i</td> <td></td> <td></td> <td>4.8 17,4</td> <td></td>													88	25	4.35	2	2			i			4.8 17,4	
66         223         248         1         25         268         1         27         8         35         43         1 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>BB</td><td>25</td><td>1.37</td><td>1</td><td>2</td><td><b>60.0</b></td><td></td><td></td><td></td><td></td><td>2.7</td><td></td></t<>													BB	25	1.37	1	2	<b>60.0</b>					2.7	
66         223         248         1         25         268         1         27         8         35         43         1 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>W.B</td><td>13</td><td>3.3</td><td>20</td><td>2</td><td>2</td><td>13.2</td><td></td><td></td><td></td><td>i</td><td></td></t<>													W.B	13	3.3	20	2	2	13.2				i	
66         223         345         248         105         248         102         10         <													Tie	10	0.25	4	2	2.0						
483       336       346       335       243       243       16       343       347       1				285	0.2	0.40	2.58	1/ 0.2	6 1.05	2.5	8 1	2.71	T8	25								·····	84	*
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483       336       346       335       243       243       16       343       347       1	· · ·					+			-[			<u> </u>	88	25	4.2	2				[ <u> </u>			8.4 1.3	
485       3030       3040       3051       3051       324       305       <													STR	10	1.3	19	1	24.7						
285       336       346       335       243       243       16       336       347       1							┝━━╴╴╼╌┝		• <b></b>			+ <b></b>		13	3,15	2		10	6.3					
45         646         1.56         5.33         1.55         3.45         1.56         3.45         1.66         1.														_				1	·····					
45.         628         609         1.95         5.90         1.				285	0,23	0.40	2.35	1	4	2.3	<u> 1</u>	2.47		25	3.97	2							7.9	
45.         628         609         1.95         5.90         1.													B8	25	3.97	2							7.9	
285       0.28       0.49       1.56       1.55       3       4.8       10       1.5       3       4.8       10       1.5       3       4.8       10       1.5       3       4.8       1.5       3       1.5       3       1.5       3       1.5       3       1.5       3       1.5       3       1.5       3       1.5       3       1.5       3       1.5       3       1.5       3       1.5       3       1.5					_					1.				25	1.18								1.2	
285       0.28       0.49       1.56       1.55       3       4.8       10       1.5       3       4.8       10       1.5       3       4.8       10       1.5       3       4.8       1.5       3       1.5       3       1.5       3       1.5       3       1.5       3       1.5       3       1.5       3       1.5       3       1.5       3       1.5       3       1.5       3       1.5       3       1.5												;	W.B	13	3		i		6.0					
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46         25         32         3         46,4         3,54         -				285	0.2	0,40	1.58	3 0.4	7 1.05	1.5	3	4.98	TB	25	3.2	2	3		· ·				19.2 7.2	
46       284       0.30       0.60       3.86       5       3.33       1.60       3.66       5       27.60       18       22       4.64       3       3       -       -       -       -       18       22       4.64       3       3       -						·[	<u> </u>						<u>78</u>	25	2.41		3							
46       284       0.30       0.60       3.86       5       3.33       1.60       3.66       5       27.60       18       22       4.64       3       3       -       -       -       -       18       22       4.64       3       3       -									-				CB	25	0.79	1	3	it					19.2	
46       284       0.30       0.60       3.86       5       3.33       1.60       3.66       5       27.60       18       22       4.64       3       3       -       -       -       -       18       22       4.64       3       3       -														10	1.3	12		46.8						
44         284         0.38         0.68         3.68         5         27.88         16         28         4.64         3         3		•											Tie	10	0.25	- 4	3	3.0	13,4			· · · · · · · · · · · · · · · · · · ·		
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Image: Second second				204	. 0.50	0.00	3.00			3,00		27.00		25	4,54	3							41.8 30.0 9.6 7.0 3.5 57.7	··
CD       284       0.30       0.60       2.68       4       1.60       0.8       5       4       0.60       35.8       -         CD       284       0.30       0.60       2.68       4       1.60       1.60       0.8       5       4       0.60       35.8       -													TB	25	2.41	1	- 4						9.6	
CD       284       0.30       0.60       2.68       4       1.60       0.8       5       4       0.60       35.8       -         CD       284       0.30       0.60       2.68       4       1.60       1.60       0.8       5       4       0.60       35.8       -										·}				25	3.5	1				·	<u> </u>		7.0	
CD       284       0.30       0.60       2.68       4       150       150       2.8       4       0.60       35.8	· · · · · · · · · · · · · · · · · · ·			_,									BB	25	9.52	3	2						57,7	
CO       284       0.30       0.60       2.68       4       1.50       2.86       4       16.06       78       25       3.3       2       1				··			• ·						STR	12	1.8	20	4	ļ	144.0					
TB         Z5         3         2         1         1           T6         Z5         Z41         1 </td <td>. *</td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>10</td> <td>0.3</td> <td>5</td> <td></td> <td>6.0</td> <td>•</td> <td>35.8</td> <td></td> <td></td> <td></td> <td></td>	. *					1								10	0.3	5		6.0	•	35.8				
TB         Z5         3         2         1         1           T6         Z5         Z41         1 </td <td></td> <td></td> <td>0.0</td> <td>284</td> <td></td> <td>0.80</td> <td>260</td> <td></td> <td>1.60</td> <td>2.00</td> <td></td> <td>10.00</td> <td>70</td> <td></td>			0.0	284		0.80	260		1.60	2.00		10.00	70											
TB       Z5       4       3       1					0.30	0.00				2.00	· *	10,00	ТВ	25	3.04	3			•••••				10.9	
D         254         0.30         0.66         4.00         2         1.65         4.00         2         12.00         TB         25         4.7         4         2         - </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>25</td> <td></td> <td>. 3</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>18.0 12.0</td> <td></td>														25		. 3	1						18.0 12.0	
D         2E4         0.30         0.66         4.00         2         1.65         4.00         2         12.00         TB         25         4.7         4         2         - </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>·</td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td>T9</td> <td><del>23</del> 25</td> <td>1.64</td> <td></td> <td>3</td> <td>·</td> <td></td> <td></td> <td></td> <td></td> <td>2.4</td> <td></td>							·				1		T9	<del>23</del> 25	1.64		3	·					2.4	
D         2E4         0.30         0.66         4.00         2         1.65         4.00         2         12.00         TB         25         4.7         4         2         - </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>25</td> <td>0.85</td> <td>1</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>														25	0.85	1	1							
D         2E4         0.30         0.66         4.00         2         1.65         4.00         2         12.00         TB         25         4.7         4         2         - </td <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><u> </u></td> <td></td> <td></td> <td>STR</td> <td></td> <td>13.64</td> <td>15</td> <td></td> <td></td> <td>108.0</td> <td>·</td> <td></td> <td></td> <td>40,9</td> <td></td>	-									<u> </u>			STR		13.64	15			108.0	·			40,9	
D         254         0.30         0.66         4.00         2         1.65         4.00         2         12.00         TB         25         4.7         4         2         - </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>W.6</td> <td>18</td> <td>3.48</td> <td>2</td> <td>4</td> <td></td> <td></td> <td>27.8</td> <td></td> <td></td> <td></td> <td></td>													W.6	18	3.48	2	4			27.8				
CALCULAYION         Te         25         536         1         2           Datailed Design         W.P.         16         441         2         75.6           on Port Reactivation Project In La Union Province         Te         10         0.3         5         2         3.0	· · · ·																4	4.8	{					
CALCULAYION         B6         25         473         3         2           Datailed Design         W/P         16         44         2         17.6           On Port Reactivation Project         In La Union Province         In L	· · · · · · · · · · · · · · · · · · ·		-D	284	0.30	0.50	4.00	2 1.44	1.50	4.00	2	12.00	тв	25	<b>4</b> ,7	. 4							37.6 10.7	
Detailed Design         Web         16         44/         2         2         17.0           on Port Reactivation Project         In La Union Province         In La Union Provi	CALCOLU ADUC		<del>- 1</del>										TB	25	5.36	1	2						10.7	
on Port Reactivation Project In La Union Province	CALCULATIC	N.											STR	13	1.8	21	2		75.6		·····		28,4	
on Port Reactivation Project In La Union Province	Detailed figure			i-i									<u>W.B</u>	15	4,4	2	2			17.6				
in La Union Province											i		1.10		0.3		•4			·				
in La Union Province	on Port Reactivation	Proie	ct	. 11																				,
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TAKE-OFF SHEET 13403 CONCRETE AND FORMWORK

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·				CONC	RETE				FORM	AING							RE-B/	4R (m)					
		Symbol	[ (m)	Helght (m)	Length (m)	QΊγ	Volumo (m²)	Width (m)	Height (m)	Qʻiy	Area (m²)	Symbol	Diameter (mm)	(m)	IADUIDALS	Q'ty	D10	D13	D16	D19	D22	D25	D
· · · ·	3-4	284	0.30	0.60	4,70	1	0.85	1.50	4.70	1	7,05	TB	25	5.43 2.41	3				·			16.3	_
· · ·												BB STR	25	5,43	3	1						4.8	
the second second second												STR W.B	13	1.8	25 2			45.0	10.2				_
1				· · · · · · · · · · · · · · · · · · ·				**				Tie	10	5.1 0.3	é	1	1.8		10.2				
	-D	283A	0.30	0.55	7.60		1 25	1.40	7.60	1	10.84	TR		34.87								104.6	
			0.30 0.30 0.30 0.30	0,55 0,55 0,55 0,55	7.60 4.50	<u> </u>		1.40	4.50	1	6.30	68	25 25 13	34,87	3	1						104.6	
			0.30	0.55	2.70		1,78 0.99	1,40	4.50 2.70 3.00		15 12 8,40	STR	13	1.8	3 146 2 30	!		262.8					_
			0.30	V. 79.	3.00	÷ 4	0.35				0.40	Tie	16	33.65 0.3	30		9.0		67.3		<u> </u>		
	.0_	286A	0.35	0.65	3.80		0.66	1.65	3,80						1								
			0.00	0.03	3.00		9,00		3,00	,	6.27	TB	25 25 25 13	5,43 2,41	3	1						16.3 4.8 16.3	
	·											BB STR	25	5.43 1.8 4.6 0.3	3	. 1						16.3	_
									·			W.8	16	4,6	20			36.0	9.2				
												Tie	10	0.3	5	1	1.5						_
		C81	0.30	0.50	0.85	11	1.40	1.30	0.85	11	12.16	TR	25	211	3	11						69.6	
												BB	25 25 13	2.11 2.11	3	11						69.6	
												STR	13	1.6	6	11		105.6					
		CB1	0,30	0.50	0.98	3	0.44	1.30	0.95	3		<u>тв</u>	25	2.24	3							20,2	
				*****								88 STR	25 10	2.24	3	3	28.8					20.2	_
												_					20.0						_
	[]	C82	0.40	0.40	2,20	t	0,35	1,20	2.20		2,64	TB BB	25 25	3.38 3.36	3	!						10.1	_
												\$TR	13	1.6	6			9.5	·			10.1	
	.	28	sum ∶:	L., 1	L	I	38,70		R曲面) 23.52	, <b>}</b>	336.89							1633.42	399,58				
										· .	500.05	······		<u>.</u>			728.05	1033.42	383'29	0.00	. o'ne	2044.10	ŕ.
· ·	<u> </u>	38						~ <b> </b>															
a a film	A-C 2-8	383	0.30	0.55	5.60	6	5.54	1,40	5.60	6	47.04	TS	25	6,61	3							119.0	
	2-8											Te	25 25 25 13	6.51 1.93 6.51 1.7 6.4 0.3	1	G						119.0 11.6	
								•				5B STR		<u>0.61</u> 1.7		6 5		295.8		<u> </u>		119,0	
1												STR W.B	16	6.4	29 29 27	6			76.8				
												Tie		0.3	7	6	12.6			ł			
		383	0.30	0.55	5.60	2	1.85	1,40	5.60	2	15,68	TE	25	5 1.93	3	2						36.0	
					·						·	T9 88	25		1	2				]		3.9	_
												STR	25 25 25 13	<u>6</u> 1.7	3 29 2	2		98.6				36.0	
					<u> </u>							W.B	16	6.4	2	2			25.6				
						······································	1					Tie	10	0.3		2	4.2					•	
	A-8 5-8	383	0.30	0.55	5.60		4.62	1.40	5,60	5	39,20	<u>78</u>	25	7.22	3	\$						108.3 24.1	
										· •		TB BB	25	7,22	2							24.1	
CALCULATION		<u> </u>										STR	25 25 25 13 16	1.7	29	5		246.5					
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<b>Detailed</b> Design	-	<del></del>	[]							1					`			ŀ					_
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Port Reactivation Pro	oject	it i																					
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Ţ			CONC	RETE				FORM	ING							RE-94	AR (m)					
1	Symbol	Width (m)	Height (m)	Length (m)	Qʻty	Volume (m <sup>3</sup> )	Width (m)	Height (m)	Q۳y	Area (m²)	Symbol	Diameter (mm)	Length (m)	Numbers	Qʻty	D10	013	D16	· D19	D22	025	D3
	383	0.30	0,55	5.85	2	1.93	1.40	5.85		15.38		25	7.47	3	2						44.8	
-											TE BB	25.	2,41	2	2					·	9.6 44.8	
-		<b>-</b>									STR	25 13	1.7		2		105.4					
-											W.B	16	6.4	31 2	2			25.6				
						]					Tie	10	0.3		2	4.2						
};	383	0.30	0.55	2.73	2	0.90	1.40	2.73	2	7,64	TB	25	4 35	3	2		{				25.1	
<u> </u>											TB	25 25 25 25	4,35	2	2						9.6	
											88	<u>25</u> 13	4.35	3	2						28.1	
-ŀ											STR W.B	16	1.7	15	2		51.0	14.0				
-ŀ											Tie	10	3.5 0.3	2	2							
	385	0.25	0.40	5.85	1	0.57	1.05	5.65	1	5.93	18 18	25	7,27	2							14.5 4.B	
-											88	25 25 25 25 10	7.27	2	1						14.5	
_											8B	25	2.63	1	1						2.8	
											STR W.B	10	1.3	39	1	50.7	12.6					
-ŀ									·		Tie	10	6.3 0.25	7		1.8						
-1				1												·•••••••••••••••••••••••••••••••••••••	······	• • • • • • • •		}		
- -	385	0.25	0.40	5.60	3	1.68	1.05	5,60	3	17.64		25 25	8.61	2	2						26.4	
·											TB TB	25		<u>2</u>	1; 6;						14.0	
- -								[-			88	25 25	6.61	2	2		f	····			26.4	
											BB	25 25	7	2	1						14,0	
-[-						}					88 J STR	25	2.8	1	3						8,4	
	····· /·		*****			— k						10 13 10	1.3 6.25	39	3	152.1	37,5					
											W.6 Yie	10	0.25	27	3	5.3					i	
13	B5	0.25	0.40	2,90		0.29	1.05	2.90		3.05	TO											
4	· · · · ·			2.00		<u>N.23</u>	1.05			3.05	TB	25 25 25 10	4.52	2							9.0 2.4	
_							1				88	25	4.52	2	1						9.0	
-i-						-					STR	10	1.3	21	1	27.3						
+			•• ••	· -•	·····						W.B Tie	13 10	3.55 0.25	2	1	1,3	7.1		[			
• -					مني. د محمد	i					1.0				'	1.0			• • • • • • • • • •		·	
3	B5	0.25	0.40	2.73	2	0.55	1.05	2.73	2	5.73	Te	25	4.35	2	2						17.4	
- -			··					•••••••			76 86	25	2.41 4.35								4.8	
- -				·	+ j			·························			STR	25 25 25 10	1.3	2	21						17.4	
1											W.6	13 10	3,3 0,25	2	2		13.2				i	
- -	• • • • • •			ļ	·	·····]·					Tie	10	0.25	4	2	2.0						
- ī	85	0.25	0.40	2.58	<sub>1</sub> †	0.28	1.05	2.58		2,71	TB	25	4.2				<u> </u>				5,4	
1								712			TB	25 25	2.41	2					1		2,4	
- -											BB STR	25 10	4.2	2	!						8.4	
-[-				••••••••••••••••••••••••••••••••••••••							W.B	10	3.15	19		24.7	6.3		·[			
											Tie	10	0.25	4	1	1.0		····				
- _																						
- -	85	0.25	0,40	2.35		0.24	1.05	2.35		2.47	TB TB	25 25	3.971 2.411		!						7.9	
Ľ											88	25	3.97	2							2.4 7.9	
											STR	10	1.3	17		22.1				• [·		
-1-											W.B	13 10	0.25	2 4	1	1.0	6,01					
-1-					··i	·				]	Tie		2		11	1.01					į.	

CALC	ULATE	) îst		
Detai	led Desig	<b>j</b> i)		
on Port Rea			ject	
CALC FILE No .:				
CALC INDEX No	.:	PAG	E 2	26
	INITIA	L	DAT	E
PREPARED BY	Y.Z		Ju	2.02
CHECKED BY	10.00	. [	Au	è

28

PORT ADMINISTRATION BUILDING

			CONC	RETE				FOR	MING							RE-B/	AR (m)					
	Symbol	Width (m)	Height (m)	Length (m)	Qʻty	Volume (m³)	Width (m)	Height (m)	Oty	Area (m²)	Symbol	Diameter (mm)	Length (m)	Numbers	Q'ty	D10	D13	D16	D19	D2Z	D25	D32
-	385	0.25			3	0.47	1.05	1.58	3	4,98	78 78	25 25	3.2 2.41 3.2	2	3						19.2	
											68	25 25 10	3.2	2	3						19.2	
_											STR W.B	10	1.3	12	3		13,4				·	
-	· أ										Tie	10	2.23 0.25		3							
	CB1	0,30	0.50	0,85	14	1.79	1.30	0.85	14	15.47	TB	25	2.11		14					——	88.6	
			4,00				1.00				6B	25	2.11								88.6	
-1											STR	13	1.5	<u>e</u>	14		134,4					
~	CB2	0.40	0.40	2,20		0.35	1.20	2.20	1	2.64	78 88	25 25 13	3.36	3	1						10.1	
_											STR	13	3,36 1.6	6			9.8					
_	38	SUM	11153			21.03	20.00	en deren		186.56						424.85	1037:38	205.00	0,00	0.00	1208.33	·· c
_					۲۰۱۵ میں م <sup>ردا</sup> مرح <del>قہ مراجعہ</del>	į																
	48			· · · <del>· · · · · · · · · · · · · · · · </del>							· · · · · · ·									• • • • • • • • •		
	463	0.30	0.55	5.60	£	8.32	1.40	5.80	Ģ	70.56	TB TB	25 25 25 13	6.61 1.93	3	9						178.5	
-											8B	25	6.61 1.7	3	G C						178.5	
				~						ļ	STR W.8	13 18	1.7 6.4	29 2 7	9		443,7	115.2				
-										<u> </u>	Tie	10	0.3	7	9	18,9						
1	463	0.30	0.55	5.60	;	1.85	1.40	5.60		15,68	TO	25	7.22		2		- <b>-</b> i				43.3	
5											TB	25 25	2.41	2	2						9.6	
					••••						88 STR	25 13	7.22	3 29 29 7	2		98.6				43.3	~
											W.B Tie	16 10	1.7 6.4 0.3	2	2			25.6				
_												· · · · ·										
8	483	0,30	0,55	5.85		0.97	1.40	5,85		8,19	TB	25	7.47	3			<u> </u>	<u> </u>		<u> </u>	22.4 4.8	
<u> </u>											68	25 25	7.47	3	1		·			·	22.4	
											STR W.B	13		31	1		52.7	12.8				
_											Tie	10			1	2.1	1					
	483	0.30	0,55	2.73		0.45	1,40	2,73		3.82	TB	25	4 35	3				<u> </u>	<u> </u>	) 	13.1	
			0.00								T8 88	25	2.47	2				)			4.8	
-						·					BB STR	25	4.35	3	¦		25.5	i			13.1	• • • •
_		·	· · · · · · · · · · · · · · · · · · ·		·						W.B	13 18 10	1.7	2	1	1.2	1	7.0				
-											Tie			1								
	487	0,35	0,60	5.60	1	1.18	1.55	5.60	·	8.68	Т. <u>В</u> Т.В	32	6.81 2.91	2								
_											T.8	32	2.41	2							4,8	
										··· ··	T.9 8.8	32	2.1 6.81	5							34,1	
_											8.8 STR	25	4.4	1	1						4,4	
						1				1	W.B	13 16	6.4 0.35	29 2	j 1			12.8				
_								} <b>-</b>			Tie	10	0.35	7		2.5	ļ					
Ĵ	487	0.35	0.60	5,60		1,18	1,55	5.60		8.68	т,в	32	8.05 2.91	2								
											Т.В Т.В	32	2.91	1		ļ					4,8	
								ļ			Т.В	25 32	2.41 2.1	2	1							
-							}				8.8 9.8	25 25	8.09	1 5	1						40.5	
											STR	13	1.9	29	1		55,1		ļ			
t			··					<b></b>		<u> </u>	W,8 Tie	16 10	6.4 0.35	2	1	2.5		12.8		<u></u> .		
-										T	1	1		1			]	1	· · · · · · · · · · · · · · · · · · ·	1		
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on Port Rea in La Ur	ictivation iion Provi	
CALC FILE No.	:	
CALC INDEX NO	).:	PAGE 027
	INITIA	DATE
PREPARED BY	4.7	= Julo
CHECKED BY	LOIL	Auxi02

CALCULATION Detailed Design

· .														•					-				
· ·				CONC	RETE				FOR	MING							RE-8	AR (m)					
		Symbol	Width (m)	Height (m)	Length (m)	Q'ty	Volume (m <sup>3</sup> )	Width (m)	Height (m)	Qʻty	Area (m²)	Symbol	Diameter (mm)	Length (m)	Numbers	Q'ty	D1D	D13	D16	D19	D22	D25	D32
	A-8 5-6	495	0.25				0.29	1.05		.1	3.05	<u>18</u>	25 25		2	1			1		\	9.0	
	3-0		<b></b>		;				;		·	78 88	25	<u>2.41</u> 4.52	2			<u> </u>	÷	;	<u></u>	4,8	
-												88 STR	10	1.3	16	1	20.8						
												W.8 Tie	13 10	3.7	2	1	1.0	7.4	·				
															1								
	<u>A 8</u>	4B5	0.25	0.40	2.48	2	0.50	1.05	2.48	2	5,21		25	5.22	2	1				1		12.4	
	4 <u>-</u> 2											TB	25 25	6.22	- 2	2				1		9.61 12.41	
												STR	10 13	6.22 2.41 6.22 1.3 3.28 0.25	2 2 14 2	2 2 2	36.4						
		·										W.B Tie	13	3.28	2	2	2.0	13.1		<u> </u>			
															1		2.0		j•				
•	A-B 4-5	4B5	0.25	0.40	2.20	!	0.22	1.05	2 20			TB TB	25	3.16 2.41 3.15	2	!						6.3	
	229 <u>-</u> -											88	25 25	3.15	2							4.8	
												STR W.B	10	1.3	12	!	15.6	6.0					
										··		Tie		3 0.25	4		1.0	0.0					
															,								
	A-B 4-5	4B5	0.25	0.40	3.53		0.71	1.05	3.53	2	7.41	тв	25 25 25	5.15 2.41 5.15	2	- 2	· · · · · ·					20.6 9.6	
												88		5.15	2	2						20.6]	
							· ł					BB STR	25 10		1.		49.4					3.5	
												W.B	13	4.33	2	2		17.3					
	·								-			Tie	10	0.25	5	2	2.5						
	5	485	0.25	0.40	5.80	2	1,15	1.05	5.80	2	12.18	TB	25	6.81		- 2						27.2	
	4-6											Т <u>В</u> 88	25 25 25	6,81 2,41 6,81	2	2						9.6	
								h				68 68	25 25	6.81	2	2						27.2	
												STR	101	1.3	30	2	78.0						
						·	·		··			W.B Tie	13 10	6,4 0.25	2	2	3,5	25.6					
							·									6		···· ·· ·· ·· ·					
		CB1	0.30	0.50	1,15	13	2.24	1,30	1.15	13	19,44	T8	25 25	2.41	3	13 13 13						94.0	
						····						STR	10	2.41		13	145.6		·		i	94.0	
	[]	C82	0.40	0,40	2.20		0.35	1,20	2.20	1	2,64	BB	25 25	3.36 3.36								10.1 10.1	
												STR	13	1,6	6	Î		9.6					
		C83	0.40	0.60	2.15	······ ;	0.52	1.60	2.15		3.44	TB	25	3 51		1			Į			14.0	
												88	25	3.51 3.51 2 2.55	4	1						14.0	
					··							STR W.8	13	2	12			24.0					
					¦.							Tie	10	4.55	2	1	<u>5,1</u> 1,6						
		48	SUM				19.91										}						
		•••	auna	1.1.1.1	1		ः <b>१२</b> .२१		n i f	i i i i	171,28						393.80	833,74	186.20	0.00	0.00	1077.23	48:22
	<u> </u>	58													1								
		101	0.30	0.55	5.60		1.85	1.40	5.60	2	15.68	re	25	7.22									
CALCULATION						····						19	25	2.41	2	2					·	43.3 9.6	·····
UALUULATIUN												38	25 25 13	7.22	3	2				;		43.3	
Detailed Design					····-		-					STR W.B	13	1.7 8.4	29	2		98.6	25.5		·	+	
												Tie	10	0.4 0.3	7	2	4.2						
Port Reactivation Proje	l <del>ct '</del>	╌╌┼╉┶					ł.			/	I			í									

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on Port Reactivation Project

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CALC FILE No .:		· ·
CALC INDEX No.	: P	AGE 28
	INITIAL	DATE
PREPARED BY	Y.F	Jul.02
CHECKED BY	Calle	Auioz

21 of 28

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CALC FILE No .: CALC INDEX No .:

PREPARED BY

CHECKED BY

 $\overline{\boldsymbol{\varphi}}$ LOGA

530

( 3A03 CONCRETE AND FORMWORK - )

· · ·					-																		
		<b></b>			CONC	RETE				FOR	MING						RE-8.	AR (m)					
			Symbol	Width (m)	Height (m)	Longth (m)	Q'ty	Volume (m²)	Width (m)	Height (m)	Q'ty	Area (m*)	Symbol	Diameter (mm)	Langth (m) Numbers	a'ty	D10	D13	D16	D19	D22	D25	D32
			583	0.30			2		1.40		2				7,47 3	2		ļ				44.8 9.6	
													TB 88	25 25 25 13	7.47 3 2.41 2 7.47 3 1.7 31	2						9.0 44.8	
· · · ·													B8 STR	13	1.7 31	2		105.4	25.6				
5 M									·				W,B Tie	10	6.4 2 D.3 7	2	4.2						
1			583	0.30	0.55	2.73		0.45	1.40	2.73		3.82	TB	25	4.35 3							13.1	
													ТВ	25 25 25 13	4.35 3 2.41 2 4.35 3							4.8 13.1	
													TB TB BB STR W.B	13	4.35 3 1.7 15	<u> </u>		25.5					
													W.B Tie	16	1.7 15 3.53 2 0.3 4	1	1.2		7.1				
															2	<u> </u>		1					
			\$85	0.25	0.40	43.95	1	4.40	1.05	43.95	1	46,15	BB	25 25 10 13	57.28 57.28	1						171.8 171.8	
													STR W.B	10	57.28 3 1.3 294 46.75 2 0.25 50	1	382.2	93.5					
			1										Tie	10	0.25 50	1	12.5						
			CB1	0.30	0.50	1,43		0.44	1.30	1.48	;	3.85	78	25	i 1	<u> </u>	Į					16,4	
													88 STR	25 25 10	2.74 2.74 1.6	2	28.8					16.4	
														1	1.9	·C	}						
			58	SUM		r i i i	1.200	9.07	• n (n (h)		,	85.88				·	433.10 [	323.00	58,26	0,00		603.04	0.
			68											<u>j</u>									
			6B3	0.30	0.55	5.60	2	1.85	1.40	5.60	2	15.68	TB	25	7.22 3	2	<u> </u>	<u> -</u>				43.3	
												<u> </u>	78 88	25 25	2.41	2		7				9.8 43.3	
			-	-									STR	13	7.22 2.41 7.22 1.7 6.4 0.3	2		98.6				40.0	
													W.B Tie	13 16 10	6.4 2	2	4.2		25.6				
														1	s		·						
		·	683	0.30	0.55	5.85	2	1.93	1.40	5.85	2	16.38	18 18	25	7.47	2		1				44.8 9.6	
													BB	25 25	2.41 7.47 1.7 6.4	2		105,4				44.8	
			·	·									STR W.B	13 15 10	1.7 31	2			25.6	····			
													Tie	10	0.3	2	4.2	l					
			683	0.30	0.55	2,73	1	0,45	1,40	2.73	1	3.82	TB	25	4.35	1						13.1 4.8	
			-									· · ···	78 68	25 25 25	4.35 2.41 4.35	1	<u> </u>					4.8	
													STR	13	1.7			25.5	7.1				
							<u>.</u>				••• ••	· · · · · · · · · · · · · · · · · · ·	W.B Tie	16	3.53 2 0.3			<u> </u>					
			685	0.25	0.40	43,95		4.40	1.05	43.95		46,15			1 1				ļ			174 B	
				<u>0,</u> 2	0.40	43,53		4.40		- 40.00			BB STR	25	57.28 57.28	1						<u>171.8</u> 114.6	
			·		;			•					STR W.B	10	0 1.3 294 46.75 0 0.25 50	;;	382.2	93.5					
													Tie	13	0.25 50	1	12.5						
			C81	0.30	0.50	1.48	2	0.44	1.30	1,48	2	3.85	TB	25	2.74	3 2	l					16.4	
CALCULATI	ΟN-		i							[			BB	25	2.74 2.74 1.6	2	28.8					16.4	
Detailed Des				•	[	į	[ ··							<u> </u>				1					
			6B	SUM	p <sup>rina</sup> se	r - Cor	e tra	9.07	· . · ·		per data. P	85.83	·				433.10 1	323.00	58.26	0,00	0.00	545.78	0.(
on Port Reactivatio	n Pr	olect							·					•••••••••		·	·	à					
in La Union Pro																							
	VINC	•																					
LC FILE No .:																							
			}															-					
LC INDEX No.:	PA	GE 2	291				-													•			
INITI																							
INITI.		DAT	<u> </u>										22 of	28									

					CONC	RETE		j		FOR	MING							RE-B.	AR (m)					
			Symbol	Width (m)	Height (m)	Length (m)	ຸຊາເງ	Voiume (m <sup>3</sup> )	Width (m)	Height (m)	Q'ty	Area (m²)	Symbol	Diameter (mm)	Length (m)	Numbers	Q'ty	D10	D13	D16	019	D22	D25	٥
		-	RB	·																				
			RBS	0.25	0.40	72.90		7.29	1.05	72.90	1	76.55	Тв	25	90.34	3							271.0	<u> </u>
				<del> </del>								<u> </u>	BB STR	25 25 10	90.34	3 487		633.1					271.0	
								,					W.8	13	83.9	2	1 1		167.8					<u> </u>
													Tie	10	0,25	82								1
			RB	SUM	1 1			7.29	1. A A		pia si i	76.55						653.60	167,80	0.00	0.00	0.00	542.04	
		·	1F Slab																					
		1.2	D1(150	5.75 5.625	0.50	0.15	ī	0.43				0.00	[ Calculati	on of SLAE	BRE-Barj									
				5.625 5.625	3.325	0.15		2.81				0.00			T	m2-0.56%	1(m = 6 7 7kg	1/m2→44.8	Oka/m <sup>3</sup>					
•				5.625	1.850	0.15	1	1.56				0.00			1									<u> </u>
				5.625 5.825	3,825	0.15		1.46				0.00	2. (\$1)		r			a/m282.1				[		
		2.3	D1:150	5.75	0.50			0.00				0.00	3.(\$Z)		D10;(6+5	2*0.56kg	(m=12.32k	a/m2→102	.67ka/m3					
				5.75 5.375 5.375	0.50 3,325 4.300	0.15		2.68				0.00	4, (S4)		D13; (6+0	)*0.995kg/	m +	D10 (6+6)	0.56kg/m				• • • •	
		{		5.375	1.850	0.15 0.15 0.15 0.15 0.15		2.68 3.47 1.49 1.39 3.08				0.00	5.(85)		D10: (4+6	)*2*0.55kg	=18.66 (m=11.20k	D10 ; (6+6) ka/m2—124 q/m2→74.0	l0kg/m3 lkg/m3					<u>}</u>
				5.375 5.375	1.850 1.725 3.825	0.15	1	1.39				0.00	5.(85)		1									-
					,			0.00				0.00	6.(CS1)		D13 ; 6*0.	992XU/W+	=15.05	C.56kg/m ka/m2→107	.0kg/m3					-
		3-4	D11150	2.875	0.50 3.325 4.300 3.825	0.15 0.15 0.15 0.15		0.221				0.00 0.00 0.00												
				5.35 5.60 5.60	4.300	0.15	1	2.67				0.00			[									
				5.60	3.8251	0.15		3.21 3.21				0.00								• • • • •				
				5.60	2,175	0.15	1	1.86		_		0.00												
		4.5	011150	5.80 5.60	3.075	0,15		1.85 0.00 2.58				0.00										ł		
				5.60	4.300	0.15	1	3.61				0.00												
				5,60 5,60	3.075 4.300 3.825 3.825	0.15 0.15		3,21				0.00									·			
				5.60 5.60	3.150 4.175	0.15		2.65				0.00 0.00 0.00 0.00				·								
			2114.50					3,51 0.00				<u>C.00</u>												
	i	<u>9-0</u>	21(150	5.35 5.60	5.325 2.325 3.825	0.15 0.15 0.15		4,27				0.00 0.00 0.00 0.00				ŀ		•						
				5.35 5.35	3,825	0.15		<u>3.07</u> 3.07				0.00												
				5.35	3.150	0.15		2.53				0.00												
				5.35	4.175		1	3.35				0.00 0.00 0.00												
•	· ·	8-7 0	211150	<u>5.35</u> 5.10	4.125 1,425	0.15 0.15 0.15 0.15 0.15 0.15	1	3.31				0.00												
				5,60	1.850	0.15		1.55			"	0.00 0.00 0.00												
				5,60 5,60 5,60	3.825	0.15		1.55 3.21 3.21 0.00				0.00												
				)				0.00				0.00											{	
		/-0	011150	5.35 5,35 5.60	4.125	0.15		3.31				0.00							-					
CALCULA				5.60	1,425 1,850 3,825	0.15		1.55				0.00												
LALUULS				5.35 5.35	3.825	0.15		3.07 3.07				0.00	RE-Bar NE	T Weight :	1F Slab R8 101.98 44	- Bar SUM	4568.70	kg	—— -					
Detailed Dec	sion I	·	FSID	SUM		. <u></u> .		0.00	1	I		0.00						8158.4						
ort Reactivatio	,				I	· 1	<u> </u>		- 1 F	· · ·	1	*.**				9-0-01/012	- Contraction -	a (30.4 )	<u>"</u>	······				

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CALC INDEX No	.:	P/	GE 030
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#### ( 3A03 CONCRETE AND FORMWORK }

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			CONC	RETE				FOR	MING							RE-B	AR (m)	•									
	Symbol	Width (m)	Height (m)	Length (m)	Quy	Volume (m³)	Width (m)	Height (m)	Q'ty	Area (m <sup>2</sup> )	Symbol	Diamster (mm)	Length (m)	Numbers	Qʻty	D10	D13 .	D16	DIS	D22	D25	D32					•
·	2F_Slab																										
1-2	2521120	5.50 5.50	3.825 3.875	0.12 0.12	1	2.52 2.43 2.46	\$.50 5.50	3.825 3.875		21.04 20.21 20.49											·						
		<u>5.50</u> 5.50	3,725 3.575	0.12 0.12	1	2.45	5,50 5.50	3.875 3.725 3.575	1	20,49																	
3-4	2521120	5.70 3.20	3.70 3.70	0.12		2,53 1.42	5.70 3.20	<u>3.70</u> 3.70	1	21.09 11.64																	
4-5	2\$2(120		3.70		1		5.70 5.40			21.09 19,95																	
		5.70 5.40 5.40	3.70	0.12	1	2.53 2.40 2.06	5.40	<u>3.70</u> 3.175	1	19,98 17.15					••••••				<u> </u>		[						
5-6	2521120	5.70	3.70	0.12		2.53 2.40 2.06	5.70 5.40 5.40	3.70 3.70 3.175	1	21.09							ļ	~	1								
		<u>5.40</u> <u>5.40</u>	<u>3.70</u> 3.175		1	1			1	19.98 17.15	282 :						;										
6-7	2521120	1.671	7,70	0,12 0,12	1	1.54 0.13	1.671 0.67	7,70 1,651	<u>1</u>	12.87	CONC. SI RE-Bar N	JM ET Weight	29.37 29.37*10	02.87=	3015,21	kg	·	! 		<u> </u>							
5-6	2811150	2,825	2.575 5.700	0.15		1.09	2,825	2.575	1	7.27				·			Í		<u> </u>			÷					
6-7	2511150	5.60	2.70	1	1	2.27	5,60	1	1	15.12 15.12																	
-							t		1		2S1 ;				1		<u> </u>		ļ								
7.8	2 <u>S11150</u>	5.30 5.05	3.825	0.15	1	3.04 1.21	5.30 5.05	3,825 1,60	1	8.08	CONC. SI RE-Bar N	UM ET Weight I	12.04 12.04*82	13=	988.76	kg											
*******	2S4t150	2.28	2,20	0.15	1	0.75	2,28	2.20	1	5.02	2S4 ; CONC. S			5 m3													
											1	ET Weight			93.30	<u>kg</u>			<u> </u>			-	ł				
	CS1t150	1.03 1.03 1.13	5.70 3.88 7.78	0.15	1	7.89	1.03 	5.70 3.88 7.78 7.63	1	3.98	CS1 ; CONC, S RE-Bar N	UM ET Weight	11.10	0 m3	1187.26	lkg		·	+		 	-					
_		1.13	7,63	0.15	1	1.32	1.13	7.63	1	8.62		[															
	PC Stab				1.2*0.05=	20.06					RE-Bar N	(D10) 10m ET Weight	m2 ; 4012*0.(	56≆	2246.72	4012.0 kg											
	2F Slab	SÚM		la ren. j		73,32	i Rente	h de t	1983 N.	403.98					7531:243	kg					ļ						
	3F Slab																			1							
5-6	3\$11150	3,675 2.575	2.575	0.15	1	1.42	2.825	2.575 5.700 2.725 2.900	<u> </u>	7.27	<u> </u>		<u> </u>														
-		2.475 0.825	2.725	0.15	· · · · · · ·	1.01	2.475	2.900	<u> </u>	8.74 2.35													-				
6-7	3511150	5,85 5,85	2.68 2.73	0.15		2.35	5.85 5.85	2.68 2.73	1	<u>15.65</u> 15.94																	
7-8	3511150	5.60	2.025	0.15	ļ	1.70	5.60	2.025	!	11.34	3S1 ; CONC. S		14,01						-	- 	<u> </u>					•	
-		4,63 5,30	3.825	0.15	·	1,10				20.27	RE-Bar N	ET Weight	14.08*8	2.13=	1154.89	ka					<u> </u>						
	3541150	2.28	2.20	0.15	5	0.75	2.28	2.20	1	5.02	354 CONC. S	UM	0.7	51 <u>m</u> 3								C	ALC	ULA	TION		•
	CS11150	1.03	5.70	0.15	12	2 10,52	101	5.70	 	70 11	CS1 ;	ET Weight	0.75-124		\$3,30								Detai	led C	esign		
		1.03	5.70 2.10	0.15		0.35	1.03	5.70 2.10	1		CONC. S	UM ET Weight	10.8	61m3 07.0=	1162.34	kg		-			e	1	L		tion P		:t
	PC Slab			455.3	2  m2							(D10) 10m ET Wekghi	1 -	1		4552.0	0 m	ļ					-1		Provin	-	-
	3F Sleb	SUM		Conc. 45	5.2 0.05=	22.70	   : · · :	<u> </u>	<u> </u>	178.75		e i vvekghl	455210.		2549.12	1					CAL	FILE	÷				
<u> </u>		1	l	<u> </u>	1	1	1	1	1	1		!		1	1	1		ł	1	D		C INDE				AGE	. 2/
																							-^ הנ				
																								1. 116	ITIAL	DA	12

#### TAKE-OFF SHEET

( 3A03 CONCRETE AND FORMWORK )

#### QUANTITY GALCULATION SHEET

PORT ADMINISTRATION BUILDING

CHECKED BY

COLUME         JOBINE         COLUME         COLUME         COLUME         COLUME           10 100 100 100 100 100 100 100 100 100	ORK_	1																									
Image: Sector 1         Image: Sec	[				çox	CRETE				FOF	RMING							RE-8	AR (m)								
Image: Sector 1         Image: Sec	ŀ		Sumbol	Width		Length	0%		Width	Height	. 0'			Diameter	Length	Number		010	043		010	0.22	D25	D17			
x       x		_		(m)	(m)	(m)	<u> </u>	(m <sup>3</sup> )	(m)	(त)		(m²)	Symbol	(നന)	(म)	Numbers	GIY	510		010	019						
Structure       Structure	Ī.						[																<u> </u>				
Image: state in the state	ť	-3	451(150	2.68	3.70	0.15	4	5.66	2.68	3.70	4	37,72			<u> </u>					<u> </u>							
Image: Section 1       Section 2       Section 2       Section 2       Section 2         Image: Section 1       Section 2       Section 2       Section 2       Section 2       Section 2         Image: Section 2       Section 2       Section 2       Section 2       Section 2       Section 2       Section 2       Section 2         Image: Section 2       Section 2       Section 2       Section 2       Section 2       Section 2       Section 2       Section 2         Image: Section 2       Sect	-			5,83	1.08	0.15	2	1,88	5.83	1.08	2	12.52															
Image: Section 1       Section 2       Section 2       Section 2       Section 2         Image: Section 1       Section 2       Section 2       Section 2       Section 2       Section 2         Image: Section 2       Section 2       Section 2       Section 2       Section 2       Section 2       Section 2       Section 2         Image: Section 2       Section 2       Section 2       Section 2       Section 2       Section 2       Section 2       Section 2         Image: Section 2       Sect	1	.8	4511150	4.00	2,20	0.15	1	1.32	4.00	2.20	1	5.60															
Image: Section 1       Section 2       Section 2       Section 2       Section 2         Image: Section 1       Section 2       Section 2       Section 2       Section 2       Section 2         Image: Section 2       Section 2       Section 2       Section 2       Section 2       Section 2       Section 2       Section 2         Image: Section 2       Section 2       Section 2       Section 2       Section 2       Section 2       Section 2       Section 2         Image: Section 2       Sect	l			5.60	1.78	0.15	1	1 50	5.80	1.78	1	9.97															
1         1 <th1< th=""> <th1< th=""> <th1< th=""> <th1< th=""></th1<></th1<></th1<></th1<>				1.35	2.20	0.15	3 2	1.00	1.350	2.20	1 2	8.70	451				[ <u> </u>										
Benez         288         38         653         654         655 <td>ŀ</td> <td></td> <td></td> <td>0.83</td> <td>2,90</td> <td>0.15</td> <td></td> <td>0.38</td> <td>0.83</td> <td>2.90</td> <td></td> <td>2.41</td> <td>CONC. S RE-Bar N</td> <td>UM ET Weight</td> <td>22.37</td> <td>_m3 .13≍</td> <td>1837.24</td> <td>ka</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	ŀ			0.83	2,90	0.15		0.38	0.83	2.90		2.41	CONC. S RE-Bar N	UM ET Weight	22.37	_m3 .13≍	1837.24	ka									
Game         Game <th< td=""><td></td><td></td><td>454150</td><td>i</td><td></td><td>4</td><td></td><td>1</td><td>1</td><td>ſ</td><td></td><td>5.02</td><td>454</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>ļ</td><td>ļ</td><td></td><td></td><td></td></th<>			454150	i		4		1	1	ſ		5.02	454										ļ	ļ			
60000       100 <td< td=""><td>ļ.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>·</td><td></td><td>CONC. SI</td><td>UM</td><td>0.75</td><td>m3</td><td>02.00</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td>1 A.</td><td></td><td></td></td<>	ļ.										·		CONC. SI	UM	0.75	m3	02.00	1							1 A.		
EQUID:         EQUID: <thequi:< th="">         EQUI:         EQUI:</thequi:<>						L						i		1	;0.75-124	.u	93.30	<u>kg</u>									
EQUID:         EQUID: <thequi:< th="">         EQUI:         EQUI:</thequi:<>	ŀ	····	CS11150	1.03	2,10	0,15	10	0.35	1.03	5.70	10	58.43	CS1 ; CONC, SI	UM.	9.78	m3											
# P Bob       PM       92.47       278.00       Distribution         # B Bob       # B Bob       P Bob       PM       PM       PM         # B Bob       # B Bob       # B Bob       PM       PM       PM       PM         # B Bob       # B Bob       # B Bob       PM       PM       PM       PM       PM         # B Bob       # B Bob       # B Bob       # B Bob       PM       PM       PM       PM       PM         # B Bob       PM	ļ			0.70	3.20	0.15	2	0.57	0.70	3.20	2	4.48	RE-Bar N	ET Weight	<u>9.78*107 (</u>	.0=	1046.70	kg									
# P Bob       PM       92.4       278.50       3052470       3052470       3052470         # Z SS       3052470       3052470       3052470       3052470       3052470       3052470         # Z SS       3052470       3052470       3052470       3052470       3052470       3052470       3052470       3052470         # Z SS       3052470       3052700			PC Slab		ļ	390.4	m2						RE-Ber ; (	(010) 10m/	m2		2190.24	3904.0	m								
Press         Control	Ì	_				100nc. 390	U.N. U.US*	1							. 4904 0.5	-	[										
All 601156       33       33       35	-		4F Slat	SUM -	 I	in di	di i	52,42		a de la de	1	219,36					5183.478	kg					{				· .
1       2 <th2< th=""> <th2< th=""> <th2< th=""></th2<></th2<></th2<>	÷	_	SF Slab																							÷	
1       2 <th2< th=""> <th2< th=""> <th2< th=""></th2<></th2<></th2<>	2	ΨB.	551t150	4.05	2.45	0.15	1	1.49	4,05	2.45	1	9,92							ļ								· ·
1       2 <th2< th=""> <th2< th=""> <th2< th=""></th2<></th2<></th2<>	ŀ.			4.05	2,48	0.15	1	1,34	4.05	2.40	<u></u> 1	8.91															
1       2 <th2< th=""> <th2< th=""> <th2< th=""></th2<></th2<></th2<>	·			1,35	2.45	0.15	1		1.35	2.45	<u> </u>	3.31					1								•		
233         238 <td></td> <td></td> <td></td> <td>1.35</td> <td>2.20</td> <td>0.15</td> <td>1</td> <td>2 0.45</td> <td>1.35</td> <td>2.20</td> <td>1</td> <td>2.97</td> <td></td>				1.35	2.20	0.15	1	2 0.45	1.35	2.20	1	2.97															
8-C       SSI1190       2.88       2.80       0.05       2.05       2.00       2.00				0.83	2.93	0.15		0.36	0.83	2.90		2.41															· .
	- [;		6511060			ł			í							i											
188       188       100       188       100         220       220       220       230       100       1000       1000         651150       246       0.15       1000       1000       1000       1000       1000         651150       246       0.15       1000       1000       1000       1000       1000       1000       1000         65       10000       10000       10000 </td <td>1</td> <td></td> <td>5311130</td> <td>2.68</td> <td>2.00</td> <td>0.15</td> <td>2</td> <td>1.61</td> <td>2.68</td> <td>2.00</td> <td>2</td> <td>10.72</td> <td></td> <td>-</td> <td></td> <td></td>	1		5311130	2.68	2.00	0.15	2	1.61	2.68	2.00	2	10.72													-		
0511150       3.60       1.48       0.15       0.40       3.60       1.62       1.53       COL       0.40       0.60 <th0.60< th="">       0.60       0.60</th0.60<>				2.68	3,25	0,15	2	2.61	2.55	2.80	2	17.42	551 ;			<u> </u>							· · ·				
0511150       3.60       1.48       0.15       5.60       1.62       1.52       0.60 <th0.60< th="">       0.60       0.60</th0.60<>	-			1.90	0.90	0.15	2	0.51	2.20	0.90	2	3.42	CONC. SU RE-Bar N	UM ET V/eight	18.81	13¤	1544.83	ka							1.		
SUM         19.8         20.0         26.0         20.0         85.53         85           42 5905	-		CS11150					i											ļ							1.1	
9F Steb.       548       198       198       1907         0F Steb.       248       0.15       1.66       248       9.05         135       248       0.15       1.66       248       9.05         135       248       0.15       1.54       265       1.65       265         135       248       0.15       1.54       265       230       1.65         135       248       0.15       1.54       265       230       1.65         135       248       0.15       1.54       265       230       1.65         135       248       0.15       1.65       560       1.35       244       1.35         135       248       0.15       1.65       560       1.78       1.977       1.977         155       268       2.15       1.65       2.65       2.00       1.978       1.977         268       2.26       0.15       1.35       2.66       2.020       1.978       1.977         268       2.26       0.15       1.36       2.66       2.020       1.974       1.977         268       2.26       0.15       2.66       2.60       2.057	1												CONC. SL	Л	0.60	<u>m3</u>							ļ				
0000       00000       0000							· · · · · · · · · · · · · · · · · · ·	(					KE-Bar N		0.80-107	0=			'-								
AB       6511150       4.05       2.48       0.15       1.64       4.05       2.48       1.0.04				SUM	s al sie	1	e de la composición de la composición de la composición de la composición de la composición de la composición d El composición de la composición de la composición de la composición de la composición de la composición de la c	19.61		9.0 		130.73					1630.349	kg									
135       245       0.15       1       0.60       135       246       1       3.35         1.35       2.20       0.15       1       0.45       1.35       2.46       1       3.35       1       0.45       1.35       2.46       1       3.35       1       0.45       1.35       2.46       1       3.35       1       0.45       1.35       2.46       1       3.35       1       0.45       1.35       2.46       1       3.35       1       0.45       1       0.45       1.35       2.46       1       3.35       1       0.45       1       1       0.45       1       0.45       1       0.45       1       1	ŀ	-				<u> </u>																					
135       245       0.15       1       0.60       135       246       1       3.35         1.35       2.20       0.15       1       0.45       1.35       2.46       1       3.35       1       0.45       1.35       2.46       1       3.35       1       0.45       1.35       2.46       1       3.35       1       0.45       1.35       2.46       1       3.35       1       0.45       1.35       2.46       1       3.35       1       0.45       1       0.45       1.35       2.46       1       3.35       1       0.45       1       1       0.45       1       0.45       1       0.45       1       1	Ĩ	-8	8S11150		2.45	0.15	1		4.05	2.45																	
B-C       6311150       2.55       2.00       0.15       2       1.65       2.68       2.00       2       1.67       Detailed Design         2.68       2.00       0.15       2       1.61       2.68       2.00       2       10.20       Detailed Design         2.65       2.60       0.15       2       2.65       2.80       2       17.25       Detailed Design         2.65       2.60       0.15       2       2.65       2.80       2       14.25       2       17.42       651         2.65       2.60       0.15       2       0.51       2.66       2       17.42       651       0n       Port Reactivation Project         1.901       0.900       0.15       2       0.51       1.66       0.900       2       3.42       CONC, SUM       18.81       18.72       1.74       651       1.48       1.79       RE-Gar NET Weight 18.81       18.73       1.48	- J			4.05	2.20	0,15		1.34	1 1 0 6	2 20	[]	8 91															
B-C       6311150       2.55       2.00       0.15       2       1.55       2.00       2       10.20       Detailed Design         2.68       2.00       0.15       2       1.61       2.68       2.00       2       10.20       Detailed Design         2.65       2.60       0.15       2       2.65       2.80       2       17.22       Detailed Design         2.65       2.60       0.15       2       2.65       2.80       2       17.22       Detailed Design         1.90       0.90       0.15       2       0.51       2.85       2.85       2.85       2.85       2.85       2.85       2.85       2.85       2.85       2.85       2.85       2.85       2.85       2.85       2.85       2.85       2.85       2.85       2.85       2.82       2.17.22       2.85       2.17.97       RE-Garrer Weight 15.81***       1.831****       0.80       1.831****       0.80       1.831****       1.831****       0.80       1.831****       0.80       1.831****       0.80       1.831****       0.80       1.831****       0.80       1.831****       0.80       1.831*****       0.80       1.831*******       0.80       1.831***********************************	[			1.35	2.48	0.15	1	0.50	1.35	2.48		3.35															
B-C       6311150       2.55       2.00       0.15       2       1.55       2.00       2       10.20       Detailed Design         2.68       2.00       0.15       2       1.61       2.68       2.00       2       10.20       Detailed Design         2.65       2.60       0.15       2       2.65       2.80       2       17.22       Detailed Design         2.65       2.60       0.15       2       2.65       2.80       2       17.22       Detailed Design         1.90       0.90       0.15       2       0.51       2.85       2.85       2.85       2.85       2.85       2.85       2.85       2.85       2.85       2.85       2.85       2.85       2.85       2.85       2.85       2.85       2.85       2.85       2.85       2.82       2.17.22       2.85       2.17.97       RE-Garrer Weight 15.81***       1.831****       0.80       1.831****       0.80       1.831****       1.831****       0.80       1.831****       0.80       1.831****       0.80       1.831****       0.80       1.831****       0.80       1.831****       0.80       1.831*****       0.80       1.831*******       0.80       1.831***********************************	1			5.60	1.78	0,15	1	1.50	5.60	1.78	1	9.97											-				the state in the state in
B-C       6311150       2.55       2.00       0.15       2       1.55       2.00       2       10.20       Detailed Design         2.68       2.00       0.15       2       1.61       2.68       2.00       2       10.20       Detailed Design         2.65       2.60       0.15       2       2.65       2.80       2       17.22       Detailed Design         2.65       2.60       0.15       2       2.65       2.80       2       17.22       Detailed Design         1.90       0.90       0.15       2       0.51       2.85       2.85       2.85       2.85       2.85       2.85       2.85       2.85       2.85       2.85       2.85       2.85       2.85       2.85       2.85       2.85       2.85       2.85       2.85       2.82       2.17.22       2.85       2.17.97       RE-Garrer Weight 15.81***       1.831****       0.80       1.831****       0.80       1.831****       1.831****       0.80       1.831****       0.80       1.831****       0.80       1.831****       0.80       1.831****       0.80       1.831****       0.80       1.831*****       0.80       1.831*******       0.80       1.831***********************************		_			2.90	0.15		0.38	0,83	2,50		2.41											-		CALCI	ATIO	£.1
CS11150         3.00         1.48         0.15         1         0.60         3.60         1.48         1         5.33         CS1:         CALC FILE No.:           CONC, SUM         0.80 (m3)         RE-Bar NET Weight: 0.807/99*107.0=         85.51 ko         CALC IN DEX No.:         PAGE 03.2           0F Slab         SUM         18.61         130.73         11530.349 ko         INITIAL         DATE	Ĩ	LC.	8511150		2.00	0.15	ł	l												ļ							
CS11150         3.00         1.48         0.15         1         0.60         3.60         1.48         1         5.33         CS1:         CALC_FILE No.:           CONC, SUM         0.80 (m3)         CONC, SUM         0.80 (m3)         CALC_FILE No.:         CALC_FILE No.:         PAGE 03.2           0F Slab         SUM         19.61         130.73         11530.349 to         CALC_INDEX No.:         PAGE 03.2           INITIAL         DATE         10.75         10.75         11530.349 to         11530.349 to         INITIAL         DATE				2,68	2.00	0.15	2	1.61	2.63	2.00	2	10.72													netailed	I Desigi	n
CS11150         3.00         1.48         0.15         1         0.60         3.60         1.48         1         5.33         CS1:         CALC_FILE No.:           CONC, SUM         0.80 (m3)         CONC, SUM         0.80 (m3)         CALC_FILE No.:         CALC_FILE No.:         PAGE 03.2           0F Slab         SUM         19.61         130.73         11530.349 to         CALC_INDEX No.:         PAGE 03.2           INITIAL         DATE         10.75         10.75         11530.349 to         11530.349 to         INITIAL         DATE				2,68	1 3.25	0.15	2	2.14	· 2.68	3,25	2	17.42	6S1 :						<u> </u>					-on-P	ort Reacti	vation	Project
CS11150         3.00         1.48         0.15         1         0.60         3.60         1.48         1         5.33         CS1:         CALC_FILE No.:           CONC, SUM         0.80 (m3)         CONC, SUM         0.80 (m3)         CALC_FILE No.:         CALC_FILE No.:         PAGE 03.2           0F Slab         SUM         19.61         130.73         11530.349 to         CALC_INDEX No.:         PAGE 03.2           INITIAL         DATE         10.75         10.75         11530.349 to         11530.349 to         INITIAL         DATE		_		1.90	0.90	0.15	2	0.51	1.90	0.90	2		CONC. SU RE-Bar N	UM ET Weight	18.81 18.81*82	m3	1544.83	kg			· ····			ir	La Ilaio	Draw!	
CONC. SUM         0.80/m3         ICALC-FILE No.:           BF Slab. SUM         136.1         136.73         1850.349 to         CALC-INDEX No.:         PAGE 032           INITIAL         DATE	÷		CS11150			1	1															• • • • • • • • •				TON	
OF Slab         SUM         CALC-INDEX No.:         PAGE 032           INITIAL         DATE										**			CONC. SI	UM. ET Mainti	0.80	m3	86.61							LC-FI	LE No.:		
INITIAL DATE			at clah	CL NA	<u>}</u>	1	† <u>.</u>	10.51	*******	······································	1										·		1CAI	C-IN	DEX No	Τ.	1405
	Ŀ		ur jafab. :	3UM	1 <sup>-22-2</sup>	<u>1</u>	1.1.1.1.1	19.61	i	1. A 12.4		130,73				<b>_</b>	1630.349	¥0	ļ	<u>}</u>							
														÷. –									1			INITIAL	DATE
											÷		25 of 2	9		· · ·							1.1	PAR	ED BY 🗌	42	

QUANTITY CALCULATION SHEET

PORT ADMINISTRATION BUILDING

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( 3A03 CONCRETE AND FORMWORK )

			CON	RETE				FOR	MING							RE-B	AR (m)						
	Symbol	Width (m)	Height (m)	Length (m)	Qʻty	Volume (m <sup>3</sup> )	Width (m)	Height (m)	Q'ty	Area (m²)	Symbol	Diametar (mm)	Langth (m)	Numbers	Qʻty	D10	Ð13	D16	D19	D22	D25	032	
	RF Slab			·				÷													───		-
в	RS21120	2.78	2.45 2.48	0.1	2	4 3.27	2.78	2.45	4	27.24													<b>.</b>
		2.78 2.78 2.78	2.48	0.1	2	3 2,48 4 2,94 1 0.52	2.78	2.20		20.68								·		i			
-		2.48	2.20 1.75 2.48	0.1	2	1 0.52	2.48	1.75	) 1	4.34										·			• ·
			1	1		-1		1	¢.	1													- -
2	R\$21120	2.55 2.68 2.55 2.68	2.00 2.00 2.80 3.25	0.1 0.1	2	2 1.22 2 1.29	2.55 2.68 2.55	2.00 2.00 2.80	2	10.20 10.72				•••••									
_		2.55	2.80	0.1	2	2 1.71 2 2.05 2 0.41	2.55	2.80	- 2	14,28	R\$2								<u> </u>		∤		
~		1.90	0.90	0,13	2	2 0.41	1.90	0.90	2	3.42	CONC. S	UM ET Welghi	17,59	m3	1806.44						[		
••		2.20			1	2 1,42		1					1.30 10		1000,44				ļ			ļ	
-	CS1t150	4.30	1.48	0.1	5	0.95	4.30	1.48	1	6.36	CS1 CONC, S	UM	0.95	m3								<u> </u>	-
-											RE-Bar N	ET Weight	7.99*102	67	102.14	kg							
	RF Slab	SUM	la an Fairteacht	l a construction a state de la construction de la construction de la construction de la construction de la construction de la co		18,55		1. 		152.99					1908.579	kg							
				[·				<u> </u>			Slab(+1F	) CONC. S	ŪM	<u> </u>	231.94	m3							-
				<u></u>								) RE-Bar I		1	22823.85	kg	1.04=	23736.5	K0		1		-
-	1F WALL								<u>}</u>										<u> </u>		1		-
	W20	3.20	5.20	0.2	0	1 3,33	3.20	5.20		33.28													-
	1		-							52.08													-
_		5.60 3.00 -0.80	4.65 4.80 2.10	0.2	a	1 5,21 1 2,86 1 +0.34	5.60 3,00 -0.80	4.65 4.60 2.10	2	28.80									<u> </u>		ļ		-
	·[	-0.80	2.10	0.2	0	1 +0.34 1 +0.25	-0.80	2.10	2	-3.35		Ì					<u> </u>					1	-
-	W20	2.45	1	1	0	1 2 35	2.45	4.80	2	23.52							<b> </b>		l		ł		-
-		2,44 6,00 1,25	4.80 4.80 5.20	0.2	<u>0</u>	1 2.36 1 5.76 1 1.30	2.45	4.80 4.80 5.20	2	23.52 57.60 13.00		· · · · · · · · · · · · · · · · · · ·	; 										
_		5	1	1	1	0,00	).	1		1													
	W20	0.875	5.20	0.2	0	1 0.91	0.875	5.20		9.10 46.50				<u> </u>						   			
	IF.WALL		L	[	T	25.76		1	· · ·	257.58											<u>+</u>	<del> </del>	-
- 1	2F WAL	ļ	ļ	ļ				ļ	ļ	·													-
	1				-			<u> </u>			·												-) -1
-	W20	2.7		-		1 1.7:				17.33	<u> </u>		<u> </u>									<u>i</u>	-
8	W20	5,80	3.25 3.25 2.10	0.2	0	1 3.64	5.60	3.25		36.40				. <u>;</u>			{·						-
		-0.8	2.10	0.2	0	1 1.9 1 0.3 1 -0.2	5.60 3.00 0.80 -0.70	3.25 3.29 2.10 2.10		-3.36													-
								ł		0.00										<b></b>			
6	W20	2.4		0.2	0	1 1.6 1 3.6	5.30	5 <u>3.40</u> 3.40		36,04		<u></u>			+		<u> </u>	ļ			╧╼╢╌	<u> </u>	CALCULATION
	W20	5.22	3.0	0.2		1 3.1		3.05		0.00									ļ				Detailed Design
	2F WALL	SUM	1	land.		15.1	s	1.20	{ 	0.00					<u> </u>					1			
	1	<u> </u>					1	1	1		1	1	<u>.</u>	1		1	1	1	1	1	╧╌╋╧	00	Port Reactivation Proje

in La Union Province GALC FILE No .: JALC INDEX NO .: PAGE 033 INITIAL

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#### TAKE-OFF SHEET

( 3A03 CONCRETE AND FORMWORK )

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PREPARED BY

CHECKED BY

PORT ADMINISTRATION BUILDING

<del>ر</del>	1		CON	CRETE			1	FOR			T					95.0	1						•		
					<del>,</del>				MING	1		1					AR (m)	1		r	1				
	Symbo	I Width (m)	Height (m)	Length (m)	Q'ty	Volume (m³)	Width (m)	Height (m)	Q'ty	Area (m²)	Symbol	Diameter (mm)	Length (m)	Numbers	Q'ty	D10	D13	D16	D19	D22	D25	D32			
	3F WAL	•																					l		
<u>A</u>	W20	2,75				1.73			2	17,33															
A-8	W20	5.60 3.00 -0.80	3.25 3.25 2.10	0.20 0.20 0.20		3.64 1.95 0.34	5,60 3,00 -0.80 -0,70	3.25 3.25 2.10 2.10		36.40 19.50 -3.36															
	ļ	0,80	2.10	0.20	<u> </u> ]	-0.29	-0.70	2.10	2	-2.94													ĺ		
5-6	W20	2.45	3.40	0.20		1.67 3.60	2,45	3.40	2	16.66															
	W20	5.225	1		1	3,19	5.225	1		31.87															
	3F WALL		!			15.15				151.50															
{	4F WAL		<u> </u>		<u></u>																				
Ā	W20	2.75	3,15	0,20		1.73	2.75	3.15	2	17.33		<u> </u>													
ATE	W20	5.60	3.25	0.20		3.64	5.60	3.25 3.25	2	36.40 19.50															
		-0.80	2.10	0.20		3.64 1.95 -0.34 -0.29	3.00	2.10	2	-19.50 -3.36 -2.94															
-		-0,70					-0.70		•	16.66						<u> </u>							}		
5.6	<u>W20</u>	2.45	3.40 3.40	0.20	1	1,67		3.40 3.40	2	36.04								[							
6	W20	5.225	3.05	_0.20	<u> </u>	3,19	5.225	3.05	2	31.87								ļ							
	4F WALI	. 'SUM	1	'	·	- 15,15	:.			151,50															
-	SF WAL	-																<u> </u>				<u> </u>			
<u>A</u>	W20	2.75	1		1	1.73				17.33															
A-B	VV20	5.60	3.25	0.20		3.64 1.95 -0.34 -0.23	5.60 3.00 -0.80 -0.70	3.25 3.25 2.10 2.10	2	19.50 -3.36 -2.94											 	 			
		-0.80	2.10 2.10			-0.34	0.70	2.10	2	-2.94															
5.6	W20	2.45 5.30	3.40 3.40	0.20		1.67	2.45	3,40	- 2	16.56 36.04															
ē	W20	\$.225	1		·	3.19	5.225	3.05	2	31.87	}														
	SF WALL		1		(	15,15	1.1 A.			151,50															
-	6F WALL																								
<u>a</u>	W20	2.75	3,15	0.20	1	1.73	2,75	3,15	2	17,33															
A-B	W20	5.60	3.25	0.20	]	3.64	5.60 3.00	3.25	2	36.40 19.50							•								
		5.60 3.00 -0.80 -0.70	3.25 3.25 2.10 2.10	0.20 0.20 0.20		3.64 1.95 -0.34 -0.29	-0.80	3.25 3.25 2.10 2.10	2	-3.36											-6		CALC	ULATION	
5-6	W20		1	0.20		1 1				16.66	Calculatio (D13) 6m	n of Wall R "2"0,995kg	E-Bar (m+ (D10)	V8; 2-013 6m*2*0.56k	@200 , H g/m=18.66	B; 2-D10 @	200 93.3kg/m3	3							
		2.45 5.30	3.40	0.20	1		2 <u>.45</u> 5.30	3.40 3.40	2	36.04	Wall CON	'	101.51	i										led Design	
6	W20	5.225	3.05	0.20	1	3.19	5.225	3.05	2	3 <u>1.87</u> 0.00	RE-Bar N	ET Weighl			9470.603	<u>kg</u>	1.04=	9849.4	kg			on	Port Rea	ctivation F	rojest
E	6F, WALL	SUM			1	15.15				151.50													in La Un	ion Provin	ce
								· .													C	ALC	FILE No .:		
	÷.,																				c	ALC I	NDEX No		AGE 034
																					Ĕ				
								-														<u> </u>	·	INITIAL	DATÉ

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#### TAKE-OFF SHEET

#### [ 3A03 CONCRETE AND FORMWORK ]

QUANTITY CALCULATION SHEET

PORT ADMINISTRATION BUILDING

			CONC	RETE				FOR	MING							RE-8.	AR (19)					
	Symbol	Width (m)	Height (m)	Length (m)	Q'ty	Volume (m <sup>3</sup> )	Width (m)	Height (m)	<b>Q</b> 'ty	Area (m <sup>2</sup> )	Symbol	Diameter (mm)	Length (m)	Numbers	Qʻty	D10	D13	D16	D19	D22	025	032
	2F BALCONY																					1
_		38.40				B.06															<u> </u>	.
<u>.                                    </u>	Wall	38,40	0,70	0.15	2	8,06	38.40	1,40	2	107,52												•
-	2F BALCONY	- 3 96 B J	SUM	ودوني با	ь. <sub>10</sub> са	8.08		ta ga pa		107.52							·	·		1		1
. 1							1														1	
	3F BALCONY																		<u> </u>		į	
~	Watt	38.40	0.70	0.15	2	8,06	38,40	1.40	2	107.52	•••••, <u>•</u> +				··							·[
_							38,40	1.40		107.52											ļ	1
-	SF BALCONY		SUM		S. 5.	8,06		الموجيعا	$r \geq 1.47$	107.52												†
				<u> </u>			· · · · ·														1	
	2F PARAPET																					
					······		0.15			8.18									<b> </b>	ļ	·[	
		0.15	0.15	54.50 \$4.50	··	1.23	1.00			54,50					<del></del>						· · · · · · · · · · · · · · · · · · ·	
						<del>*</del>	1.00							·			j			į <b>.</b>		·
[	8	0.15	0.15	19.50	1	0.44	0.15	19.50	1	2.93								<u></u>	+·····	<u> </u>	<u> </u>	+
		0.15	0.50	19.50	1	1.46	1.00	19.50	1	19.50												
										Ĭ							1				1	
	2F PARAPET	1. j. 1	SUM		e al d	7.22	1.1	22.43	1	82.68										l	ļ	1
	AF PARAPET				·											ļ	ļ	ļ	ļ			<u> </u>
•	AP PARAPET				<b></b>			I	·			ļ <u> </u>				·}	<u>+</u>		<u> </u>			·}
	<b>}</b>	0.70	0.20	52.60	<u> </u>	7.36	1,40	52.60		73.64		;				<u>}</u> …				!	<u> </u>	- <del> </del>
	-	0.70				7.36				73.64												÷
					······································					<u></u>				· }		i					· · · · · ·	
	R	0.70	0,20	7,00	1	0.98	1.40	7.00	1	9.80			+		······	·····		i	····		1	
						1			1	1			1									
	4F PARAPET		SUM		a di seco	15,71	a be a se	9.80	, s trij	147.28							<u> </u>			<u> </u>		
	RF PARAPET							ļ				<u> </u>									· · · · ·	
	PARAPET		├		i						Coloulatio	D. of Boleon	L E Domo	el RE-Bar	UP: D10	1 00000 LIG	j.	<u>.</u>	÷			
-	{·	0.20	1.00	36.00		7.20	2.00	36.00		72.00	(D10) /6	+51m*0.56k	nm=8.16	kp/m2-51.3	3ko/m3	<u>wzuv , rio</u>	51.3ko/m	3	·			
	I				·	·  ····			<u> </u>		1010010	1	1				1	ř <u> </u>	·i			
	R	0.20	1.00	18.84	1 1	3,77	2.00	18.84	1	37.68	MISCELL	ANEOUS (	ONC, SU	M	50.02	m3	<u> </u>					
						1				7	RE-Bar N	ET Weight			2565.97		1.04=	2668.0	kg			·}
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### LA UNION PORT DEVELOPMENT PROJECT

#### Quantity Calculation Sheet Concrete Work

No.1

DISCRIPTION	& LOCATION		SUB TOTAL							CAL	DULA	<u>TION</u>			π η.		<del></del>	r · · · -		
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	4-5		96.00	6.0	*	8.0	*	2												
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ADMINISTRATION BUILDING

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