III CALCULO DE MATERIAIS

ITEM	MATERIAIS	POLDER	ATERRO	DE [illegible]	LADRÃO	[illegible]	[illegible]	[illegible]	POR OM (PONTE)	[illegible]	[illegible]	[illegible]
ESCARIFICAÇÃO	TRATOR ESTEIRA	[illegible]	[illegible]		[illegible]	NO BRIJIG	[illegible]	[illegible]				
DESTOCA	"	[illegible]			[illegible]		[illegible]					
LIMPEZA DE MAIZ	"	[illegible]										
NIVELAMENTO	"	[illegible]										
CULTURA	PLOW HARROW	[illegible]										
"	DISK HARROW	[illegible]										
ESCAVAÇÃO	TRATOR ESTEIRA		[illegible]		[illegible]	[illegible]		[illegible]				
ESCAVAÇÃO	" (POLDER)		[illegible]		[illegible]		[illegible]					[illegible]
"	ESCAVADEIRA (COBRAS GERAL)	[illegible]	[illegible]		[illegible]						[illegible]	
"	188 RETRO ESCAVADEIRA (COBRAS GERAL)		[illegible]	[illegible]	[illegible]							
"	90° (POLDER)	[illegible]			[illegible]	[illegible]				[illegible]		
"	TRATOR ESCAVO-CARREGADOR		[illegible]							[illegible]		[illegible]
"	PA CARREGADEIRA	[illegible]	[illegible]		[illegible]	[illegible]		[illegible]		[illegible]		[illegible]
ATERRO INTERNO	TRATOR ESTEIRA		[illegible]	[illegible]							[illegible]	
"	ESCAVADEIRA											
LASTRO			[illegible]						[illegible]	[illegible]		
LIMPEZA DE VERTENTE			[illegible]		[illegible]							
TORRÃO DE VERTENTE			[illegible]		[illegible]							
FERRAGEM	½" ~ 1"			[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	UP
CONCRETO ARMADO	1 : 2 : 3			[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	
CONCRETO SIMPLES	1 : 3 : 4			[illegible]	[illegible]				[illegible]		[illegible]	
	1 : 4 : 8			[illegible]	[illegible]				[illegible]	[illegible]	[illegible]	
FORMAS				[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	
ESTACAMENTO	ø 20cm L=											[illegible] UN
ESTACAMENTO	ø 10cm L=40m					[illegible] UN						
PROTEÇÃO DE PEDRA					[illegible]	[illegible]					[illegible]	
"SHEET PILE"	L=5.00m										[illegible] UN	
"SHEET PILE"	TIPO-II										[illegible] UN	

ESTRUTURA PRINCIPAL

1 - ESTRADA

		CALCULO	COMPRIMENTO m
ACESSO	I		766
	II		653
	III		648
	SUB-TOTAL		2.067
TRANSVERSAL	I		357
	II		376
	III	630 — 6 × 2 UN.	618
	IV	833 — 6 × 3 UN.	815
	V	962 — 6 × 3 UN.	944
	VI	1.048 — 6 × 3 UN.	1.030
	SUB-TOTAL		4.140
MARGINAL	I	2.292 — 6 × 3 UN.	2.274
	SUB-TOTAL		2.274
TOTAL			8.481 m

CANAL DE IRRIGAÇÃO

C.I.P–1. CANAL DE IRRIGAÇÃO PRINCIPAL No.1
C.I.S–1. CANAL DE IRRIGAÇÃO SECUNDARIO No–1

	CALCULO	COMPRIMENTO TOTAL	BUEIRO	COMPRIMENTO DE CANAL
K 2 (CF 700)		250m	18.0	232
K 5 (CF 600)		882	59.5	822.5
K 4 (CF 600)		460	26.0	434
K 3 (CF 300)		592	38.0	554
SUB TOTAL		2,184	141.5	2,042.5
S — I	367–50	317	—	317
S — II	197+270+114	581	—	581
S — III	74+287+278+182	821	13.5	807.5
S — III		185	—	185
I.S — IV	203+287+283+177	1,050	13.5	1,036.5
I.S — IV		120	—	120
I.S — V	289+287+288+172	1,036	13.5	1,022.5
SUB TOTAL		4,110	40.5	4,069.5
TOTAL		6,294m	182.0m	6,112.0m

DRENO

D. P. – I = DRENO PRINCIPAL Nº-1

D. S. – I = DRENO SECUNDARIO Nº-1

	CALCULO	COMPRIMENTO TOTAL	BUEIRO	COMPRIMENTO DE CANAL
— (D4)	145+110.5+120+120+120+120	735.5	42.3	693.2
— (D1)		155	12.0	143.
— (D3)	109.5+120+120+120	469.5	39.4	430.1
— (D2)	299+96+120+120	635	36.8	598.2
SUB TOTAL		1,995	130.5	1,864.5
— I	367–50	317	—	317
— II	197+270+120	587	12.0	575
— III	74+287+278+188	827	12.0	815
— IV	203+287+283+183	956	12.0	944
— V	289+287+288+178	1,042	12.0	1,030
— VI		159.4	12.0	147.4
— VII		408	—	408
SUB TOTAL		4,296.4	60	4,236.4
TOTAL		6,291.4	190.5m	6,100.9m

ESTRUTURAS PARA IRRIGAÇÃO

ESTRUTURA / PONTO		CAIXA DE DISTRIBUIÇÃO A	CAIXA DE DISTRIBUIÇÃO B	BUEIRO DIA	BUEIRO COMPRIMENTO (m)	ANOTAÇÃO
ACESSO TRANSVERSAL MARGINAL	I I	3	—	Ø400	20.0	
				"	5.5	
ACESSO TRANSVERSAL	I III	1	1	"	8.5	
ACESSO TRANSVERSAL	I IV	1	1	"	"	
ACESSO TRANSVERSAL	I V	1	1	"	"	
ACESSO TRANSVERSAL	I VI	2	—	"	"	
TRANSVERSAL II (Nº 1)		1	1	Ø400	18.0	
ACESSO II (Nº 1)		1	1	Ø200	8.0	
ACESSO TRANSVERSAL	II III	1	1	Ø400	6.5	
ACESSO TRANSVERSAL	II IV	1	1	"	"	
ACESSO TRANSVERSAL	II V	1	1	"	"	
ACESSO TRANSVERSAL	II VI	1	1	"	"	
TRANSVERSAL ACESSO	III III	1	1	Ø200	10.5	
ACESSO TRANSVERSAL	III IV	2	1	"	6.5	
				"	13.5	
ACESSO TRANSVERSAL	III V	2	1	"	6.5	
				"	13.5	
ACESSO TRANSVERSAL	III VI	3	—	"	6.5	
				"	13.5	
TOTAL		22	12	Ø200 ℓ = 78.5 m Ø400 ℓ = 103.5		

BUEIRO PARA DRENAGEM

ø= 800 mm

ESTRUTURA / PONTO	K1 ø800		K2 ø800		K3 ø800		K4 ø800		K5 ø800	
	PAREDE	COMPRI.	PAREDE	COMPRI.	PAREDE	COMPRI.	PAREDE	COMPRI.	PAREDE	COMPRI.
	UN.	m	UN.	m	UN.	m	UN.	m	UN.	m
ACESSO I										
TRANSVERSAL II							2	9.0		
" "										
TRANSVERSAL III					1	12.0	2	9.0		
" "										
TRANSVERSAL IV					1	12.0	2	9.0		
" "										
TRANSVERSAL V					1	12.0	2	9.0		
" "										
TRANSVERSAL VI					1	12.0	2	9.0		
" "										
MARGINAL					1	12.0				
ACESSO II	2	15.0								
TRANSVERSAL III										
" "										
TRANSVERSAL IV							2	9.0		
" "										
TRANSVERSAL V							2	9.0		
" "										
TRANSVERSAL VI							2	9.0		
" "										
MARGINAL			2	12.0						
ACESSO III										
TRANSVERSAL IV										
" "										
TRANSVERSAL V										
" "										
TRANSVERSAL VI										
" "										
MARGINAL			2	12.0						
TRANSVERSAL VI										
MARGINAL							2	9.0		
TOTAL		1		2		5		12		

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		POLDER	DRIVE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DESTOCA	TRATOR DE ESTEIRA	[illegible]				[illegible]				[illegible]			
NIVELAMENTO	" "	[illegible]				[illegible]				[illegible]			
CULTURA	"PLOWING HARROW"	[illegible]				[illegible]				[illegible]			
"	"DISK HARROW"	[illegible]				[illegible]				[illegible]			
ESCAVAÇÃO	TRATOR DE ESTEIRA	(POLDER)	[illegible]				[illegible]		[illegible]				
"	ESCAVADEIRA		[illegible]	[illegible]	[illegible]		[illegible]		[illegible]				
"	RETRO ESCAVADEIRA												
"	TRATOR ESCAVO CARREGADOR												
ATERRO INTERNO	ESCAVADEIRA		[illegible]	[illegible]	[illegible]		[illegible]		[illegible]	[illegible]			
FERRAGEM	1/4" ~ 1"			[illegible]	[illegible]				[illegible]	[illegible]			
CONCRETO	1 : 2 : 3			[illegible]	[illegible]				[illegible]	[illegible]			
ARMADO	1 : 3 : 4			[illegible]	[illegible]					[illegible]			
CONCRETO SIMPLES	1 : 3 : 6 : 8												
FORMAS				[illegible]	[illegible]				[illegible]	[illegible]			
ESTACAMENTO	ϕ 1 0 L=4.0 m			[illegible]	[illegible]	UN.			[illegible]	[illegible]			
PROTEÇÃO DE PEDRA				[illegible]	[illegible]				[illegible]	[illegible]			
CAMINHO DENTRO LOTE	K 1	[illegible]				[illegible]				[illegible]			
CANAL DE IRRIGAÇÃO	K 2	[illegible]				[illegible]				[illegible]			
PRINCIPAL	K 3	[illegible]				[illegible]				[illegible]			
"	K 4	[illegible]				[illegible]				[illegible]			
"	K 5	-				[illegible]				[illegible]			
"		-				[illegible]				[illegible]			
CANAL DE IRRIGAÇÃO SECUNDARIO		[illegible]				[illegible]				[illegible]			
CAIXA DE DISTRIBUÇÃO, TIPO-A		[illegible] UN				[illegible]	UN.			[illegible]	UN.		
" TIPO-B		[illegible] UN				[illegible]	UN.			[illegible]	UN.		
BUEIRO PARA IRRIGAÇÃO	ϕ 1 0 0	[illegible]				[illegible]				[illegible]			
"	ϕ 2 0 0	[illegible]				[illegible]				[illegible]			
DRENO PRINCIPAL		[illegible]				[illegible]				[illegible]			
DRENO SECUNDARIO		[illegible]				[illegible]				[illegible]			
BUEIRO PARA DRENAGEM	ϕ 0 0 0	[illegible]	UN.			[illegible]	UN.			[illegible]	UN.		
ACESSO		[illegible]				[illegible]				[illegible]			
TRANSVERSAL		[illegible]				[illegible]				[illegible]			

2 CENTRO DE DESENVOLVIMENTO AGRICOLA

2.1 NIVELAMENTO DO SOLO

1) CALCULO DE AREA

NO 1

NODE BLOCO	NODE LOTE	COMPRI.	ALTURA	AREA	NODE BLOCO	NODE LOTE	COMPRI.	ALTURA	AREA
1	1	45	13			10	30	23	
		20	13						690
		13	10						
				258		11	30	40	
									1200
	2	40	13						
				520		12	30	38	
									1140
	3	38	13						
				494		13	30	23	
									690
	4	30	23						
				690		14	30	40	
									1200
	5	30	40						
		8		1200		15	30	38	
									1140
	6	30	38						
				1140		16	30	23	
									690
	7	30	23						
				690		17	30	40	
									1200
	8	30	40						
				1200		18	30	38	
									1140
	9	30	38						

NO 2

NODE BLOCOLOTE	NO.	DE COMPRI.	ALTURA	AREA	NODE BLOCOLOTE	NO.	DE COMPRI.	ALTURA	AREA
1	19	40	3			8	30	40	
				60					1200
	20	38	3			9	30	38	
		38	3						1140
				152					
						10	30	33	
2	1	13	33						990
				429					
						11	30	40	
	2	13	40						1200
				520					
						12	30	38	
	3	13	38						1140
				494					
						13	30	33	
	4	30	33						990
				990					
						14	30	40	
	5	30	40						1200
				1200					
						15	30	38	
	6	30	38						1140
				1140					
						16	30	33	
	7	30	33						990
				990					

NO 3

NODE BLOCOLOTE	NODE	COMPRI	ALTURA	AREA	NODE BLOCOLOTE	NODE	COMPRI	ALTURA	AREA
	17	30	40			4	30	33	
				1,200					990
	18	30	38			5	30	40	
				1,140					1,200
	19	33	15			6	30	38	
		33	3						1,140
				132					
						7	30	33	
	20	40	6						990
		40	8						
				260		8	30	40	
									1,200
	21	38	8						
		38	10			9	30	38	
				342					1,140
3	1	13	33			10	30	33	
				429					990
	2	13	40			11	30	40	
				520					1,200
	3	13	38			12	30	38	
				494					1,140

SERKEL 65 NO 52

NO 4

NODE BLOCOLOTE	NODE	COMPRI.	ALTURA	AREA	NODE BLOCOLOTE	NODE	COMPRI.	ALTURA	AREA
3	13	30	33		4	1	21	10	
				990			27	13	
									381
	14	30	40						
				1200		2	33	30	
							-(5	5)	
	15	30	38						
				1140					423
	16	30	33			3	25	20	
				990					250
	17	30	40			4	30	33	
				1200					990
	18	30	38			5	51	24	
				1140			51	10	
							16	6	915
	19	33	10						
		33	13			6	10	27	135
				330					
						7	30	33	990
	20	40	13			8	30	40	
		40	15						1200
				460					
						9	30	38	
	21	38	15				-(4	10)	
		38	17	608			?		1120

NO 5.

NODE BLOCOLOTE	NODE	COMPRI.	ALTURA	AREA	NODE BLOCOLOTE	NODE	COMPRI.	ALTURA	AREA
4	10	30	33		15	1	40	19	
				990			40	9	
									560
	11	30	40						
				1200		2	33	11	
									182
	12	30	38						
				1140		3	30	33	
									990
	13	30	33						
				990		4	30	40	
							19	5	122
	14	30	40						
				1200					
	15	30	38			5	26	16	
				1140			26	20	460
	16	38	15						
		38	18			6	30	33	
				627					990
	17	47	18			7	30	40	
		47	21						1200
				917					
						8	25	30	
	18	45	20				13	30	
		45	21	923					945

SEKIREL 85 NO. 52

NO 6

NODE BLOCOLOTE	NODE	COMPRI.	ALTURA	AREA	NODE BLOCOLOTE	NODE	COMPRI.	ALTURA	AREA
5	9	42	20			7	40	22	
		42	21						880
				861					
						8	40	40	
	10	50	22						1.600
		50	24						
				1.150		9	38	40	
	11	30	40	1200					1,520
	12	5	40	100		10	40	22	
									880
6	1	18	22						
				396		11	40	40	
									1.600
	2	18	40						
				720		12	40	38	
									1 520
	3	41	16						
		41	15			13	40	22	
				636					880
	4	40	22			14	40	40	
				880					1.600
	5	40	40			15	40	38	
				1.600					1520
	6	40	38	1520		16	40	22	880

SEKSEL 85 NO. 52

90

NO 7

NODE BLOCO	NODE LOTE	COMPRI.	ALTURA	AREA	NODE BLOCO	NODE LOTE	COMPRI.	ALTURA	AREA
6	17	40	40			2	40	12	
				1.600			40	10	
									440
	18	40	38						
				1.520		3	38	10	
							38	9	
	19	30	22						361
				660					
						4	40	33	
	20	30	40						1.320
				1200					
						5	40	40	
	21	30	38						1.600
				1140					
						6	40	38	
	22	40	22						1.520
				880					
						7	40	33	
	23	40	40						1.320
				1.600					
						8	40	40	
	24	40	38						1.600
				1.520					
						9	40	38	
7	1	36	14						1520
		36	17						
				450		10	40	33	
									1320

SECREL 85 NO 52

NO 2

NODE BLOCOLOTE	NODECOMPRI.	ALTURA	AREA	NODE BLOCOLOTE	NODECOMPRI.	ALTURA	AREA
7	11	40	40		21	30	38
			1.600				1140
	12	40	38		22	40	33
			1.520				1.320
	13	40	33		23	40	40
			1320				1.600
	14	40	40		24	40	38
			1.600				1.520
	15	40	38	8	1	34	8
			1.520			34	6
							238
	16	40	33				
			1.320		2	40	6
						40	4
	17	40	40				80
			1.600				
					3	33	4
	18	40	38			38	1
			1.520				98
	19	30	33		4	40	33
			990				1.320
	20	30	40		5	40	40
			1200				1.600

SEKIDEL 85 NO. 52

NO 9

NODE BLOCO	NODE LOTE	COMPRI.	ALTURA	AREA	NODE BLOCO	NODE LOTE	COMPRI.	ALTURA	AREA
8	6	40	38			16	40	33	
				1520					1320
	7	40	33			17	40	40	
				1320					1600
	8	40	40			18	40	38	
				1600					1520
	9	40	38			19	30	33	
				1520					990
	10	40	33			20	30	40	
				1320					1200
	11	40	40			21	30	38	
				1600					1140
	12	40	38			22	40	33	
				1520					1320
	13	40	33			23	40	40	
				1320					1600
	14	40	40			24	40	38	
				1600					1520
	15	40	38	1520	9				

SECOEL 35 NO 52

NO 10

NODE BLOCOLOTE	NODE	COMPRI.	ALTURA	AREA	NODE BLOCOLOTE	NODE	COMPRI.	ALTURA	AREA
9	1	110	33			10	40	33	
				1320					1320
	2	58	28			11	40	40	
		58	27						1600
				1596					
						12	40	38	
	3	53	27						1520
		53	25						
				1378		13	38	40	
									1320
	4	40	33						
				1320		14	40	40	
									1600
	5	40	40						
				1600		15	40	38	
									1520
	6	40	38						
				1520		16	30	33	
									990
	7	40	33						
				1320		17	30	40	
									1200
	8	40	40						
				1600		18	30	38	
									1140
	9	40	38						
				1520		19	40	33	1320

SEKPEL BS NO. 52

NO 11

NODE BLOCOLOTE	NODECOMPRI.		ALTURA	AREA	NODE BLOCOLOTE	NODECOMPRI.		ALTURA	AREA
9	20	40	40		8	38		40	
				1600					1520
	21	40	38		9	38		40	
				1520					1520
10	1	48	23		10	40		33	
		48	22						1320
				1.080					
					11	40		40	
	2	52	25						1600
		52	24						
				1.274	12	40		38	
									1520
	3	49	24						
		49	22		13	40		33	
				1127					1.320
	4	40	33		14	40		40	
				1320					1600
	5	40	40		15	40		38	
				1600					1520
	6	40	38		16	30		33	
				1520					990
	7	40	33	1320	17	30		40	1200

NO 12

NODE BLOCOLOTE	NODE	COMPRI.	ALTURA	AREA	NODE BLOCOLOTE	NODE	COMPRI.	ALTURA	AREA
10	18	30	38			25	~~4~~	~~2~~	
				1140			~~10~~	~~0~~	
									~~112~~
		40	30						
	17	~~56~~	~~10~~						
		~~62~~	~~13~~		11	1	40	22	
		~~62~~	~~21~~						880
				1200 ~~1600~~					
						2	40	40	
		40							
	20	~~50~~	40						1600
				1600 ~~2000~~					
						3	40	38	
		40	38						
	21	~~50~~	~~32~~						1520
				1520 ~~1200~~					
						4	31	17	
	~~22~~	~~18~~	0				40	21	
				~~72~~ ~~144~~			24	9	
									834
	~~23~~	~~31~~	~~1~~						
		~~31~~	~~25~~			5	40	40	
				816					1600
	~~24~~	~~42~~	~~12~~			6	40	38	
		~~40~~	~~30~~						1520
		~~40~~	~~23~~						
				~~1596~~		7	45	17	
							45	3	
	~~25~~	~~13~~	~~7~~						450
		~~72~~	~~2~~						

NO 13

NODE BLOCOLOTE	NODE	COMPRI.	ALTURA	AREA	NODE BLOCOLOTE	NODE	COMPRI.	ALTURA	AREA
11	8	40	40		11	16	40	38	
				1600					1520
	9	40	38			17	55	28	
				1520			44	19	
							30	4	
	10	10	3						1248
				15					
						18	38	40	
	11	56	27						1520
		30	18						
		30	7		12	1	40	38	
		33	18						1320
				1.446					
						2	40	40	
	12	40	38						1600
				1.520 1.480					
						3	40	38	
	13	53	26						1520
		53	22						
				1.272		4	40	33	
									1320
	14	40	38						
				1520		5	40	40	
									1600
	15	50	14						
		26	19			6	33	40	
		49	13	1.915					1520

SIGNEL B5 NO 52

NO 14

NODE BLOCCOLOTE	NODE	COMPRI.	ALTURA	AREA	NODE BLOCCOLOTE	NODE	COMPRI.	ALTURA	AREA
12	7	40	33		12	17	40	40	
				1320					1600
	8	40	40			18	40	38	
				1600					1520
	9	40	38			19	38	33	
				1520					1254
	10	40	33			20	38	40	
				1320					1520
	11	40	40			21	38	38	
				1600					1444
	12	40	38		13	1	40	33	
				1520					1320
	13	41	33			2	40	40	
				1353					1600
	14	40	40			3	40	38	
				1600					1520
	15	40	38			4	40	33	
				1520					1320
	16	40	33	1320		5	40	40	1600

SCHAREL 85 NO. 52

NO 15

NODE BLOCOLOTE	NODECOMPRI.		ALTURA	AREA	NODE BLOCOLOTE	NODECOMPRI.		ALTURA	AREA
13	6	40	38		13	16	40	33	
				1,520					1,320
	7	40	33			17	40	40	
				1,320					1,600
	8	40	40			18	40	38	
				1,600					1,520
	9	40	38			19	38	33	
				1,520					1,254
	10	40	33			20	38	40	
				1,320					1,520
	11	40	40			21	38	38	
				1,600					1,444
	12	40	38		14	1	40	33	
				1,520					1,320
	13	40	33			2	40	40	
				1,320					1,600
	14	40	40			3	40	38	
				1,600					1,520
	15	40	38	1,520		4	40	33	1,320

SECCIONES NO 52

NO 16

NODE BLOCOLOTE	NODE	COMPRI.	ALTURA	AREA	NODE BLOCOLOTE	NODE	COMPRI.	ALTURA	AREA
14	5	40	40		14	15	40	38	
				1600					1.520
	6	40	38			16	40	38	
				1520					1.320
	7	40	33			17	40	40	
				1.320					1.600
	8	40	40			18	56	28	
				1600			56	13	
							45	9	
	9	40	38						1.351
				1.520					
						19	38	38	
	10	40	33						1.254
				1.320					
						20	56	27	
	11	40	40				56	16	
				1.600			43	16	1.448
						21	10	10	150
	12	40	38						
				1.520	15	1	39	31	
							36	15	
	13	40	38						275
				1.320					
						2	33	14	
	14	40	40	1.600					231

SEKIRO 65 NO. 52

100

NO

NODE BLOCCOLOTE	NODECOMPRI.		ALTURA	AREA	NODE BLOCCOLOTE	NODECOMPRI.		ALTURA	AREA
15	3	□ 40	33		15	10	△ 40	6	
				1.320			33	10	
									823
	4	△ 55	26						
		55	20			11	△ 6	13	
		110	10						9
				1.465					
						12	△ 5	3	
	5	△ 21	7						8
				74					
					16	1	△ 31	5	
	6	□ 40	33				34	18	
				1.320					884
	7	△ 56	28			2	□ 31	40	
		56	18						1240
		34	7						
				1.407		3	31	38	
									1172
	8	□ 40	33						
				1.320		4	△ 45	13	
							45	30	
	9	△ 49	23				38	10	
		49	6						1168
		12	3						
				729		5	□ 40	40	
									1600
	10	45	27						

SERSEL BS NO 52

NO 18

NODE BLOCOLOTE	NODECOMPRI.		ALTURA	AREA	NODE BLOCOLOTE	NODECOMPRE.		ALTURA	AREA
16	6	40	38		16	15	80	38	
				1520					1520
	7	56	28			16	56	28	
		41	20				55	10	
		29	11				46	2	
		37	10						1110
				1537					
						17	40	40	
	8	40	40						1600
				1600					
						18	40	38	
	9	40	38						1520
				1520					
						19	21	11	
	10	40	40				20	4	
				1600			15	1	
							20	2	
	11	40	40						183
				1600					
						20	40	40	
	12	40	38						1600
				1520					
						21	40	38	
	13	40	40						1520
				1600					
						22	15	1	
	14	40	40	1600			3	1	17

SECRED 65 NO 152

102

NO 11

NODE BLOCO	NODE LOTE	COMPRI.	ALTURA	AREA	NODE BLOCO	NODE LOTE	COMPRI.	ALTURA	AREA
16	23	43	18		17	7	40	33	
		43	18						1.320
		15	2						
		23	2			8	40	40	
		23	4						1.600
				858					
						9	40	38	
	24	41	23						1.520
		41	8						
				636		10	40	33	
									1.320
17	1	31	33						
				1.023 ~~960~~		11	40	40	
									1.600
	2	31	40						
				1.240 ~~1.023~~		12	40	38	
									1.520
	3	31	38						
				1.178		13	40	33	
									1.320
	4	40	33						
				1.320		14	40	40	
									1.600
	5	40	40						
				1.600		15	40	40	
									1.600
	6	40	38						
				1.520		16	51	25	

NO 70

NOMB. BLOCOLOTE	NOMB.	DESCOMPRI.	ALTURA	AREA	NOMB. BLOCOLOTE	NOMB.	DESCOMPRI.	ALTURA	AREA
17	14	62	9		18	3	31	39	
		18	10						1,178
		20	6	302 ~~372~~ ~~872~~					
						4	40	33	
									1,320
	17	42	5						
		27	12			5	40	40	
		25	3						1,600
				305 ~~305~~					
						6	56	28	
	18	36	5				56	16	
		36	4				42	9	
		22	5						1.421
				217					
						7	40	33	
	19	41	12						1,320
		34	7						
		41	8			8	56	28	
				529 ~~328~~			56	20	
							41	7	
	20	8	5						1.485
		8	2						
				28		9	40	33	
									1,020
18	1	31	33						
				1023		10	49	23	
							30	2	
	2	31	40	1240					594

SELECT 65 NO 52

NO 21

NODE BLOCOLOTE	NODE	DECOMPRI.	ALTURA	AREA	NODE BLOCOLOTE	NODE	DECOMPRI.	ALTURA	AREA
18	11	52	25						
		52	4						
		40	13						
				819					
	12	6	3						
				9					
	10	2	1						
				1					
	14	32	15						
				240					
19	1	40	19						
		40	10						
		40	18						
				940					
	2	26	12						
		26	4						
				208					
	6	26	13						
		20	11						
				643					

BLOCO	LOTE	COTA	MEDIO	BLOCO	LOTE	COTA	MEDIO
1	1	381 [illegible]	4.28	1	18	[illegible]	[illegible]
	2	380 [illegible]	4.07		19	[illegible]	[illegible]
	3	[illegible]	3.89		20	[illegible]	[illegible]
	4	[illegible]	4.16	2	1	[illegible]	[illegible]
	5	392 409 426 387	3.99		2	377 382 379 372	3.70
	6	406 387 359 384	3.85		3	379 372 381 375	3.66
	7	430 418 409 389	4.12		4	357 384 372 379	3.76
	8	409 387 389 472 487 [illegible]	4.17		5	382 379 [illegible] 380	3.80
	9	389 472 389 452	4.24		6	377 380 375 376	3.72
	10	418 428 387 399	4.10		7	384 452 379 381	4.01
	11	387 393 417 [illegible] 422 406 [illegible]	4.17		8	[illegible] 389 380 372	[illegible]
	12	472 406 452 408	4.35		9	380 372 360 375	3.72
	13	467 435 393 451	4.39		10	452 408 387 376	4.06
	14	452 434 416 403	4.29		11	381 376 372 372	3.77
	15	406 450 418 395	4.13		12	372 372 375 381	3.77
	16	469 475 434 430	4.37		13	360 375 376 371	3.70
	17	452 431 443 426	4.41		14	376 381 372 389	3.82

NQDE BLOCO	NQDE LOTE	COTA	COTA MEDIO	NQDE BLOCO	NQDE LOTE	COTA	COTA MEDIO
2	15	[illegible]	[illegible]	4	12	[illegible]	[illegible]
	16	[illegible]	[illegible]		13	[illegible]	[illegible]
	17	[illegible]	[illegible]		14	[illegible]	[illegible]
	18	[illegible]	[illegible]		15	[illegible]	[illegible]
	19	[illegible]	[illegible]		16	[illegible]	[illegible]
	20	[illegible]	[illegible]		17	[illegible]	[illegible]
	21	[illegible]	[illegible]		18	[illegible]	[illegible]
4	1	[illegible]	[illegible]	5	1	[illegible]	[illegible]
	2	[illegible]	[illegible]		2	[illegible]	[illegible]
	3	[illegible]	[illegible]		3	[illegible]	[illegible]
	4	[illegible]	[illegible]		4	[illegible]	[illegible]
	5	[illegible]	[illegible]		5	[illegible]	[illegible]
	6	[illegible]	[illegible]		6	[illegible]	[illegible]
	7	[illegible]	[illegible]		7	[illegible]	[illegible]
	8	[illegible]	[illegible]		8	[illegible]	[illegible]
	9	[illegible]	[illegible]		9	[illegible]	[illegible]
	10	[illegible]	[illegible]		10	[illegible]	[illegible]
	11	[illegible]	[illegible]				

NQDE BLOCO	NQDE LOTE	COTA	COTA MEDIO	NQDE BLOCO	NQDE LOTE	COTA	COTA MEDIO
0	1	3.61 3.75 3.81 3.81	3.80		18	3.91 3.90 3.89 3.86	3.89
	2	3.81 3.80 3.81 3.76	3.80		19	3.93 3.95 3.92 3.95	3.94
	3	3.76 3.37 3.80 3.91	3.84		20	3.95 3.94 3.90 3.92	3.92
	4	3.75 3.81 3.77 3.70	3.73		21	3.86 3.84 3.87 3.90	3.85
	5	3.81 3.80 3.84 3.77	3.81				
	6	3.80 3.91 3.82 3.84	3.84				
	7	3.70 3.77 3.84 3.75	3.77				
	8	3.77 3.84 3.81 3.97	3.84				
	9	3.84 3.82 3.93 3.81	3.85				
	10	3.75 3.94 3.82 3.87	3.83				
	11	3.94 3.81 3.82 3.82	3.85				
	12	3.81 3.93 3.95 3.82	3.88				
	13	3.87 3.82 3.83 3.91	3.88				
	14	3.82 3.82 3.91 3.83	3.85				
	15	3.82 3.95 3.90 3.91	3.90				
	16	3.91 3.83 3.75 3.93	3.91				
	17	3.83 3.91 3.86 3.95	3.89				

NQDE BLOCO	NQDE LOTE	COTA	COTA MEDIO	NQDE BLOCO	NQDE LOTE	COTA	COTA MEDIO
[illegible]	11	[illegible]	[illegible]	[illegible]	16	[illegible]	4.10
	12	[illegible]	[illegible]		17	4.80 4.62 4.77 4.09 4.84 4.21	[illegible]
6	1	4.71 4.52 4.05 4.00	4.42		18	4.84 4.61 4.67 4.35	4.62
	2	4.05 4.00 4.21 4.82	4.43		19	4.04 5.00 4.62 4.91	[illegible]
	3	4.31 4.56 4.34 4.81	4.31		20	4.82 4.91 4.09 4.37 4.11 3.94	
	4	4.52 4.42 4.00 4.21	4.19		21	4.61 4.94 4.50 4.45 4.33	4.45
	5	4.00 4.21 3.57 3.46 4.51	4.03		22	5.00 4.99 4.62 4.91	4.85
	6	4.26 3.34 4.66 4.81 4.51 3.79 3.91	4.10		23	4.91 4.62 4.37 4.34 4.93	4.23
	7	3.79 4.02 4.21 4.34	4.02		24	4.94 4.84 4.50 4.23 4.70 4.61	4.34
	8	4.21 4.34 4.57 4.51 4.43	4.21				
	9	4.51 4.79 4.43 3.93 4.62 4.01 4.09	4.20				
	10	3.74 4.34 4.47 4.11	4.17				
	11	4.44 4.11 4.43 4.30	4.30	7	1	4.36 4.81 4.09 4.24	4.38
	12	4.43 4.30 4.62 4.01 4.74 4.02 4.09	4.33		2	4.64 4.94 4.24 4.52	4.27
	13	4.90 4.93 4.47 4.11 4.60	4.34		3	4.74 4.52 4.05 4.16	4.36
	14	4.11 4.60 4.30 4.79 4.84	4.47		4	4.81 4.93 4.24 4.50 4.57	4.47
	15	4.30 4.84 4.74 4.67 4.67	4.8		5	4.24 4.59 4.52 4.30	4.41

BLOCO	LOTE	COTA	MEDIO	BLOCO	LOTE	COTA	MEDIO
7	6	452 450 446 437	434	7	23	413 460 431 464 433 444 426	[illegible]
	7	433 409 452 456 452 459 462	435		24	464 456 459 485	[illegible]
	8	459 463 452 443	449	8	1	416 [illegible]	[illegible]
	9	430 443 439 452	441		2	[illegible] 415	[illegible]
	10	409 409 445 434 462 417 485	433		3	413 418	416
	11	442 435 433 462 490	445		4	415 439 429 453	434
	12	453 450 452 449	459		5	429 453 413 418	[illegible]
	13	407 447 447 435 421	443		6	412 438 419 433	439
	14	495 419 433 427 440 432 430 430	452		7	437 452 453 462	451
	15	430 430 442 439 455 [illegible]	453		8	453 460 433 454	461
	16	447 435 429 422	438		9	438 454 442 454	447
	17	427 422 427 440 437 430 436 450	439		10	452 449 460 452	453
	18	480 450 442 455 458 [illegible]	447		11	460 452 454 451	454
	19	445 433 422 448 393 [illegible]	426		12	454 451 454 451	453
	20	422 393 460 436 433 450 444 [illegible]	434		13	449 455 452 467	466
	21	450 444 458 453	451		14	452 467 451 461	468
	22	423 461 409 448 393 421 [illegible]	428		15	451 461 451 465	467

NODE-BLOCO	NODE LOTE	COTA	COTA MEDIO	NODE-BLOCO	NODE LOTE	COTA	COTA MEDIO
8	16	455 458 467 462	461	9	9	452 457 456 457	[illegible]
	17	467 462 477 481 483	476		10	451 465 450 457	[illegible]
	18	461 463 465 466	464		11	450 457 457 463	[illegible]
	19	458 453 462 475	462		12	457 463 457 468	[illegible]
	20	462 475 477 463 451	466		13	465 466 457 470	[illegible]
	21	463 457 466 462	461		14	457 470 463 475	466
	22	453 445 475 457	418		15	462 475 468 472	470
	23	475 457 451 479	466		16	466 468 470 464	466
	24	451 479 462 459	463		17	470 464 475 479	472
9	1	419 492 395 451	437		18	475 479 472 476	476
	2	395 451 407 450	426		19	462 459 464 464	462
	3	407 450 428 436	433		20	464 464 477 473	470
	4	492 434 451 470	454		21	472 473 474 456	477
	5	451 470 450 452	456	10	1	415 446 398 438	425
	6	450 452 446 456	451		2	398 433 437 449	421
	7	454 451 470 450	456		3	437 449 459 466	453
	8	470 450 452 457	457		4	446 456 438 457	449

NODE BLOCO	NODE LOTE	COTA	COTA MEDIO
10	5	456 457 449 439 461	449
	6	449 461 466 471	463
	7	456 457 457 458	457
	8	457 458 449 443 461 472	456
	9	461 477 476 483	478
	10	457 469 458 479	466
	11	458 477 443 477 493	470
	12	477 483 458 483 475	477
	13	468 472 479 476	474
	14	479 475 493 488	485
	15	483 488 458 462 475 488	477
	16	472 476 478 478	476
	17	478 478 488 483	482
	18	488 483 473 462 488 494	481
	19	476 486 478 490	483
	20	478 490 483 498	487
	21	483 498 494 491	492

NODE BLOCO	NODE LOTE	COTA	COTA MEDIO
10	22	498 490	494
	23	490 497 498	495
	24	498 497 481 502	492
	25	464 502	483
11	1	395 411 402 412	406
	2	402 412 451 424	422
	3	483 484 463 470 463 481 468	472
	4	411 412 454 450	432
	5	412 450 424 419	426
	6	424 419 463 463 409 443	433
	7	454 450 446	453
	8	450 446 450 419 471	443
	9	419 471 403 449	434
	10	446	446
	11	446 412 471 443 450	430
	12	471 443 475 478 410 449 434	450
	13	462 443 443 457 477 434	455

NQDE BLOCO	NQDE LOTE	COTA	COTA MEDIO	NQDE BLOCO	NQDE LOTE	COTA	COTA MEDIO
11	[illegible]	[illegible]	4.37	12	12	4.26 4.34 4.43 4.35 4.90 4.97	[illegible]
		[illegible]			13	[illegible]	[illegible]
	15	[illegible]	4.17				
					14	4.67 4.00 4.56 4.46 4.59	[illegible]
	16	4.57 4.53 4.46 4.61 3.94 4.34 4.18 3.90	4.37				
					15	[illegible]	[illegible]
	17	[illegible]	[illegible]				
					16	[illegible]	
	18	[illegible]	4.36				
					17	4.00 4.98 4.56 4.59 4.76	[illegible]
12	1	4.69 4.68 4.31 4.64 4.57 4.01	4.37				
					18	4.59 4.76 5.00 5.00 3.99 5.00	4.76
	2	4.31 4.01 4.64 4.49 4.66 4.48	4.36				
					19	4.90 4.79 3.98 4.33	4.25
	3	4.66 4.48 4.45 4.65	4.61				
					20	4.95 4.93 4.76 4.53	4.46
	4	4.48 4.81 4.62 4.57 4.51 4.34	4.41				
					21	4.76 4.53 5.00 3.98 5.16 5.10 3.97	4.61
	5	4.01 4.34 4.39 4.18 4.84 4.68 4.58	4.49				
				13	1	4.45 4.65 4.57 4.16 4.81	4.63
	6	4.68 4.86 4.85 4.18 5.01 4.82 4.85 4.71	4.72				
					2	4.57 4.66 4.79 4.70	4.68
	7	4.81 4.65 4.34 4.51 3.95 4.58 4.14	4.37				
					3	4.79 4.70 4.59 4.67	4.68
	8	4.34 4.58 4.48 4.86 4.55 4.76	4.60				
					4	4.65 4.71 4.81 4.66 4.79	4.71
	9	4.68 4.76 4.85 4.18 5.01 4.82 4.43 4.25 4.71 4.90	4.68				
					5	4.66 4.79 4.70 4.31	4.72
	10	4.65 4.34 4.34 4.51 3.95 4.58 4.30 4.92 4.45 4.67	4.31				
					6	4.70 4.72 4.67 4.72	4.70
					7	4.71 4.90 4.79 4.65	4.76
	11	4.40 4.67 4.71 4.34	4.49				

NODE BLOCC	NODE LOTE	COTA	COTA MEDIO
13	8	4.77 4.65 4.72 4.64	4.70
	9	4.72 4.64 4.71 4.63	4.71
	10	4.82 4.72 4.76 4.75 4.65 5.04	4.74
	11	4.65 5.04 4.76 4.57	4.71
	12	4.64 4.57 4.63 4.59	4.66
	13	4.72 4.99 4.76 4.75 5.04 4.58	4.74
	14	5.04 4.58 4.57 4.66	4.71
	15	4.67 4.66 4.58 4.79	4.65
	16	4.99 5.00 4.58 4.72	4.83
	17	4.58 4.73 4.66 4.64	4.65
	18	4.66 4.64 4.79 4.62	4.68
	19	5.00 5.18 4.73 4.69	4.90
	20	4.73 4.69 4.64 4.66	4.68
	21	4.64 4.66 4.62 4.71	4.66
14	1	4.59 4.67 4.64 4.72	4.67
	2	4.64 4.77 4.73 4.75	4.72
	3	4.73 4.75 4.76 4.85	4.80

NODE BLOCC	NODE LOTE	COTA	COTA MEDIO
14	4	4.67 4.72 4.72 4.74	4.72
	5	4.77 4.74 4.75 4.71	4.74
	6	4.75 4.71 4.85 4.79	4.78
	7	4.72 4.83 4.74 4.71	4.75
	8	4.74 4.71 4.71 4.64	4.70
	9	4.71 4.64 4.70 4.79	4.71
	10	4.85 4.50 4.71 4.71	4.69
	11	4.71 4.71 4.64 4.72	4.70
	12	4.64 4.72 4.70 4.69	4.69
	13	4.58 4.79 4.71 4.63	4.68
	14	4.71 4.63 4.72 4.61	4.67
	15	4.72 4.61 4.69 4.63 4.65	4.66
	16	4.79 4.62 4.63 4.82	4.72
	17	4.65 4.82 4.68 4.61 5.04	4.76
	18	4.41 5.04 4.65 5.04 4.63	4.97
	19	4.62 4.71 4.82 4.90	4.76
	20	4.82 4.90 4.68 5.04 5.09	4.91

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NODE BLOCO	NODE LOTE	COTA	COTA MEDIO
14	21	5.04	5.04
15	1	4.86 4.35 4.84	4.55
	2	4.84 4.74	4.79
	3	4.85 4.79 4.84 5.15	4.91
	4	4.84 5.15 4.74 4.94 5.97 5.21	5.14
	5	5.21 5.97	5.59
	6	4.73 4.70 5.16 5.87	4.88
	7	5.15 4.87 5.21 4.94 5.20 6.58 5.71	5.81
	8	4.70 5.98 4.87 5.30	5.21
	9	4.87 5.30 5.21 5.20 6.58 5.76	5.27
	10	5.98 5.89 5.30	5.75
	11	5.30 5.76	5.53
	12	5.98	5.98
16	1	4.87 4.80 4.41	4.69
	2	4.87 3.88 4.56 4.41 4.94	4.44
	3	4.56 4.91 4.79 4.86 4.45	4.47

NODE BLOCO	NODE LOTE	COTA	COTA MEDIO
16	4	4.59 4.80 4.41 4.21	4.43
	5	4.41 4.71 4.56 4.26	4.53
	6	4.36 4.26 4.07 4.79 4.45 4.27	4.37
	7	4.53 4.21 5.00 4.10 4.28	
	8	4.21 4.28 4.30 4.86 4.51	4.53
	9	4.86 4.32 4.07 4.79 4.27 4.71	4.50
	10	5.00 4.13 4.82 4.56 4.63 4.58 4.59	4.63
	11	4.52 4.53 4.30 4.54 4.36	4.40
	12	4.59 4.36 4.71 5.2	4.70
	13	4.48 5.53 4.56 4.22 4.55 4.16	4.52
	14	4.59 4.78 4.56 4.81	4.62
	15	4.36 4.81 5.2 5.2	4.89
	16	5.53 4.32 4.78 4.95 4.60	4.87
	17	4.78 4.60 4.81 5.04	4.81
	18	4.81 5.04 3.90 3.92	4.07
	19	4.95 4.60 4.86 4.59	4.76
	20	4.60 4.86 4.59 4.80 4.16 5.04 5.29	4.62

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NQDE BLOCO	NQDE LOTE	COTA	COTA MEDIO	NQDE BLOCO	NQDE LOTE	COTA	MEDIO
16	21	5.64 3.97 5.31 5.15 4.41	4.88	17	30/14	4.56 5.39 4.75 3.56 5.35 4.40	4.71
	22	4.59 4.83	4.71		15	5.35 4.10 5.07 4.31 5.31 5.88	5.00
	23	5.27 5.16 4.83 4.89 4.30 3.16	4.64		16	5.23 4.67 5.38 3.92 4.99 5.23	4.77
	24	5.27 5.16 4.41 5.15	5.00		17	5.23 4.78 4.51 4.10 4.57	
17	1	4.57 3.95 4.33 4.61	4.30		18	4.17 5.07 4.11 5.89	4.78
	2	4.33 4.61 4.52 4.27	4.39		19	4.37 4.30 4.40	4.37
	3	4.55 4.29 5.16 3.97 3.19	4.03		20	4.50 4.15	4.58
	4	4.05 4.27 4.41 4.10	4.21	18	1	5.18 4.89 3.83 4.97	4.87
	5	4.31 4.10 4.29 4.31	4.28		2	4.69 4.97 4.46 4.88	4.70
	6	4.29 4.31 5.19 4.48	4.55		3	4.16 4.25 4.91 5.11	4.87
	7	4.97 4.31 4.10 4.63	4.48		4	3.82 4.43 4.97 5.18 3.89 5.10	4.58
	8	4.10 4.83 4.31 4.27	4.38		5	4.97 5.12 4.88 5.31 4.04 5.97 4.43	4.55
	9	4.31 4.27 4.40 4.45	4.36		6	4.88 3.59 4.05 5.11	5.64
	10	4.71 5.2 4.83 5.26	5.00		7	4.80 4.45 5.18 3.90 5.10 5.19 4.04 5.59	4.26
	11	4.83 5.26 4.13 5.35	4.83		8	5.10 5.02 4.04 5.36 5.07 5.12 6.19 8.41 5.65	5.54
	12	4.27 5.35 4.45 5.21	4.82		9	4.45 5.21 5.11 4.04 5.31 5.38 3.83 7.91	5.13
	13	5.2 5.2 5.26 5.36 3.92 4.93 5.23	4.83		10	5.02 5.56 5.12 6.19 8.41	6.80

NUDE BLOCO	NUDE LOTE	COTA	COTA MEDIO	NUDE BLOCO	NUDE LOTE	COTA	COTA MEDIO
18	11	5.71 5.45 5.53 5.71 5.90	5.75				
	12	7.91 8.56	8.24				
	13	5.02 5.91	7.16				
	14	6.59 8.03	6.18				
19	1	4.71 4.90 5.11 4.80 4.97	4.92				
	2	4.90 4.97 5.0	4.96				
	3	5.11 4.97 4.80 9.27	6.04				

PLANO		EXISTENTE				ALTURA		QUANT.		TOTAL		
AREA	COTA	NO.	COTA	AREA	QUANT.	-	+	-	+	-	+	
2631	2235	1	4.38	230	1.052.61		0.155		3999			
		2	4.01	270	2.021.040		0.215		11830			
		3	4.87	425	2.125.66	0.665		33357				
		4	4.72	262	2.570.40		0.005		5175			
		5	3.97	1.260	9.758.00		0.245		29400			
		6	3.85	1.140	4.237.00		0.385		43890			
		7	4.12	690	1.24280		0.115		7935			
		8	4.17	1.200	5.004.00		0.065		7800			
		9	4.24	1.140	4.833.60	0.005		570				
		10	4.10	690	2.859.00		0.135		9315			
		11	4.17	1.200	5.001.00		0.065		7800			
		12	4.05	1.140	4.257.00	0.115		13110				
		13	4.09	690	3.059.10	0.155		10695				
		14	4.14	1.200	5.000.00	0.005		600				

PLANO		EXISTENTE				ALTURA		QUANT.		TOTAL		
AREA	COTA	NO.	COTA	AREA	QUANT.	-	+	-	+	-	+	
		15	4.18	1.140	4.708.10		0.105		11970			
		16	4.77	690	3.291.30	0.535		36915				
		17	4.61	1.200	5.532.00	0.375		45000				
		18	4.71	1.130	4.789.40		0.025		2850			
		19	4.73	60	283.50	0.495		2970				
		20	4.23	152	44.296		0.005		228			
				12.639	70.465.26			142217	141390	827		

PLANO			EXISTENTE				ALTURA		QUANT.		TOTAL		
NO	ÁREA	COTA	NO	COTA	ÁREA	QUANT	–	+	–	+	–	+	
2	1.140	3.84	1	3.72	1.140	4.595.88		0.124		5320			
			2	3.78	990	3.965.60		0.054		3320			
			3	3.66	1.140	4.208.04		0.184		9090			
			4	3.76	990	3.722.40		0.054		8316			
			5	3.80	1.200	4.560.00		0.044		5280			
			6	3.73	1.140	4.252.20		0.114		12996			
			7	4.01	990	3.969.90	0.166		164.34				
			8	3.80	1.200	4.560.00		0.044		5280			
			9	3.72	1.140	4.240.80		0.124		14136			
			10	4.06	990	4.019.40	0.216		2138.4				
			11	3.71	1.200	4.452.00		0.074		8880			
			12	3.77	1.140	4.297.80		0.074		8436			
			13	3.93	990	3.890.70	0.036		85.14				
			14	3.82	1.200	4.584.00		0.024		2880			

PLANO			EXISTENTE				ALTURA		QUANT.		TOTAL		
NO	ÁREA	COTA	NO	COTA	ÁREA	QUANT	–	+	–	+	–	+	
			15	3.85	1.140	4.389.00	0.026		68.4				
			16	3.93	990	3.890.70	0.036		85.14				
			17	3.93	1.200	4.716.00	0.036		103.10				
			18	3.92	1.140	4.468.80	0.076		86.64				
			19	3.93	132	518.76	0.036		11.35				
			20	3.96	260	1.029.60	0.116		30.16				
			21	4.06	342	1.388.52	0.206		70.45				
	8				18.837	72.330.68			857.10	839.92	17.18		

PLANO			EXISTENTE				ALTURA		QUANT.		TOTAL	
NO	ÁREA	COTA	NO	COTA	ÁREA	QUANT	-	+	-	+	-	+
3	19.44	3.84	1	3.80	1.620	1.63320		0.055		2.360		
			2	3.80	1.520	1.97600		0.055		2.860		
			3	3.82	1.490	1.88700		0.035		1.729		
			4	3.73	1.990	3.67270		0.125		2.375		
			5	3.81	1.200	4.57200		0.045		5.400		
			6	3.84	1.140	4.37760		0.015		1.710		
			7	3.77	1.990	3.73230		0.035		3.715		
			8	3.84	1.200	4.60800		0.015		1.800		
			9	3.85	1.140	4.38700		0.005		0.570		
			10	3.83	1.990	3.79170		0.025		2.975		
			11	3.85	1.200	4.62000		0.005		0.600		
			12	3.88	1.140	4.42320	0.025		2.850			
			13	3.88	1.990	3.84120	0.025		2.475			
			14	3.85	1.200	4.62000		0.005		0.600		

PLANO			EXISTENTE				ALTURA		QUANT.		TOTAL	
NO	ÁREA	COTA	NO	COTA	ÁREA	QUANT	-	+	-	+	-	+
			15	3.90	1.140	4.44600	0.085		5.130			
			16	3.91	1.990	3.87090	0.065		5.940			
			17	3.87	1.200	4.64800	0.035		4.200			
			18	3.87	1.140	4.41780	0.035		3.990			
			19	4.01	3.50	1.52380	0.155		6.830			
			20	3.98	2.40	2.22800	0.125		7.000			
			21	3.95	2.00	2.90160	0.085		5.776			
						79.241	75.72442		37.154	38.814	10.62	

PLANO			EXISTENTE				ALTURA		QUANT.		TOTAL	
NO	ÁREA	COTA	NO	COTA	ÁREA	QUANT	-	+	-	+	-	+
1	1.509	4.08	1	3.71	781	1.01251		0.375		11164		
			2	3.78	883	1.82674		0.320		15872		
			3	3.70	1.210	2.25510		0.408		10200		
			4	3.92	990	3.88020		0.183		12612		
			5	4.01	915	3.66915		0.085		8767		
			6	4.19	1.435	5.66665	0.082		1107			
			7	3.97	990	3.93030		0.133		13612		
			8	4.06	1.200	4.87200		0.045		5760		
			9	4.21	1.120	4.71520	0.02		11424			
			10	3.95	990	3.91050		0.158		15642		
			11	4.07	1.200	4.88400		0.035		4560		
			12	4.26	1.140	4.85640	0.152		17328			
			13	4.45	990	4.40550	0.342		33888			
			14	4.09	1.200	4.90800		0.08		2160		
			15	4.31	1.140	4.93260	0.192		21888			

PLANO			EXISTENTE				ALTURA		QUANT.		TOTAL	
NO	ÁREA	COTA	NO	COTA	ÁREA	QUANT	-	+	-	+	-	+
			16	4.51	627	2.82777	0.402		25205			
			17	4.05	917	3.71385		0.065		5318		
			18	4.20	923	3.87660	0.002		8792			
					15.491	23.64257			112462	111900	562	

PLANO			EXISTENTE				ALTURA		QUANT.		TOTAL		
NO	AREA	COTA	NO	COTA	AREA	QUANT.	-	+	-	+	-	+	
3	9.824	9.475	1	4.44	510	2.48670		0.025		62.40			
			2	4.57	162	835.38	0.115		20.93				
			3	4.40	990	2.35400		0.025		74.25			
			4	4.55	1.176	5.61990	0.075		88.35				
			5	4.70	468	2.21369	0.215		112.39				
			6	4.56	990	4.51640		0.115		113.85			
			7	4.51	1.900	8.41200	0.035		12.00				
			8	4.68	945	4.42260	0.105		99.23				
			9	4.54	861	3.91069		0.225		102.59			
			10	4.84	1.130	4.99100		0.195		155.15			
			11	4.56	1.200	5.47200	0.095		102.00				
			12	4.48	100	448.00	0.005		0.50				
	24					9.824	43.76376			666.05	666.29	1.56	

PLANO			EXISTENTE				ALTURA		QUANT.		TOTAL		
NO	AREA	COTA	NO	COTA	AREA	QUANT.	-	+	-	+	-	+	

PLANO		EXISTENTE				ALTURA		QUANT.		TOTAL		
ÁREA	COTA	NO	COTA	ÁREA	QUANT.	−	+	−	+	−	+	
	4.01	1	4.92	590	1.750.02	0.19		17.12				
		2	4.13	720	2.773.60		0.171		113.12			
		3	4.31	63	274.16	0.009		5.72				
		4	4.19	880	3.687.20		0.111		27.18			
		5	4.03	1.600	6.448.00		0.271		233.10			
		6	4.10	1.570	6.432.00		0.201		205.52			
		7	4.08	880	3.590.40		0.221		198.48			
		8	4.21	1.600	6.736.00		0.091		61.60			
		9	4.20	1.570	6.594.00		0.101		65.52			
		10	4.17	880	3.669.60		0.131		115.20			
		11	4.30	1.600	6.880.00		0.001		1.60			
		12	4.33	1.520	6.581.60	0.029		44.08				
		13	4.24	880	3.731.20		0.061		54.48			
		14	4.37	1.600	6.992.00	0.069		110.40				

PLANO		EXISTENTE				ALTURA		QUANT.		TOTAL		
ÁREA	COTA	NO	COTA	ÁREA	QUANT.	−	+	−	+	−	+	
		15	4.53	1.520	6.885.60	0.119		110.08				
		16	4.10	880	3.608.00		0.201		176.88			
		17	4.46	1.600	7.136.00	0.159		159.40				
		18	4.62	1.520	7.022.40	0.319		484.23				
		19	4.64	660	3.062.40	0.339		223.74				
		20	4.82	1.200	5.784.00	0.119		68.80				
		21	4.95	1.140	5.643.00	0.049		27.85				
		22	4.69	880	4.127.20	0.179		157.52				
		23	4.93	1.200	5.916.00		0.071		113.10			
		24	4.64	1.570	6.534.80	0.037		24.18				
				28.752	123.481.60			1.793.55	1.914.66	19.32		

PLANO			EXISTENTE				ALTURA		QUANT.		TOTAL		
NO	ÁREA	COTA	NO	COTA	ÁREA	QUANT.	-	+	-	+	-	+	
7	31221	4.40	1	4.38	1.600	1.27100		0.06		2200			
			2	4.37	1.440	1.37880		0.17		7480			
			3	4.24	361	1.55000		0.20		2220			
			4	4.47	1.320	5.90040	0.03		3960				
			5	4.41	1.600	7.02600		0.03		4800			
			6	4.34	1.520	6.59680		0.10		15200			
			7	4.45	1.320	5.87400	0.01		1320				
			8	4.49	1.600	7.18400	0.05		8000				
			9	4.41	1.520	6.70320		0.03		4560			
			10	4.43	1.320	5.84760		0.01		1320			
			11	4.65	1.600	7.44000	0.21		33600				
			12	4.59	1.520	6.97680	0.15		22800				
			13	4.43	1.320	5.84760		0.01		1320			
			14	4.32	1.600	7.2[illegible]00	0.08		11200				

PLANO			EXISTENTE				ALTURA		QUANT.		TOTAL		
NO	ÁREA	COTA	NO	COTA	ÁREA	QUANT.	-	+	-	+	-	+	
			15	4.53	1.520	6.88560	0.09		13680				
			16	4.39	1.320	5.79160		0.06		7920			
			17	4.67	1.600	7.62400		0.05		8000			
			18	4.47	1.520	6.79440	0.03		4560				
			19	4.56	990	4.51750		0.18		17820			
			20	4.65	1.700	5.20500		0.10		17000			
			21	4.51	1.140	5.14140	0.07		7980				
			22	4.38	1.520	5.65760		0.16		24320			
			23	4.40	1.600	7.04000		0.04		6400			
			24	4.52	1.520	6.87040	0.06		12160				
					31221	137.65124			122560	113440	30.09		

PLANO			EXISTENTE				ALTURA		QUANT.		TOTAL		
NO	ÁREA	COTA	NO	COTA	ÁREA	QUANT.	−	+	−	+	−	+	
6	9,936	4,46	1	4,23	1,30	1006,74		0,206		207,33			
			2	4,21	1,80	1336,80		0,024		26,08			
			3	4,16	1,98	1407,15		0,076		106,85			
			4	4,34	1,620	5722,80		0,196		1287,72			
			5	4,33	1,600	2913,00		0,206		599,60			
			6	4,28	1,320	6505,60		0,256		1664,18			
			7	4,31	1,320	5963,20		0,026		154,32			
			8	4,31	1,400	7216,00		0,036		259,40			
			9	4,47	1,520	6794,40		0,086		584,32			
			10	4,63	1,320	5977,60		0,006		35,86			
			11	4,54	1,400	7264,00	0,004		29,06				
			12	4,53	1,520	6835,60		0,006		41,01			
			13	4,52	1,320	6019,20	0,024		144,46				
			14	4,58	1,400	7328,00	0,000		0,00				

PLANO			EXISTENTE				ALTURA		QUANT.		TOTAL		
NO	ÁREA	COTA	NO	COTA	ÁREA	QUANT.	−	+	−	+	−	+	
			15	4,57	1,520	6916,40	0,034		235,16				
			16	4,61	1,320	6085,20	0,074		450,28				
			17	4,66	1,400	7458,00	0,124		924,55				
			18	4,64	1,520	7052,80	0,104		733,54				
			19	4,62	1,320	4573,80	0,084		384,22				
			20	4,66	1,200	5522,00	0,124		684,53				
			21	4,61	1,140	5155,40	0,024		123,73				
			22	4,58	1,320	6045,60	0,024		145,09				
			23	4,66	1,600	7456,00	0,124		924,54				
			24	4,63	1,520	7037,60	0,084		591,15				
	21					39336,47	854,42		330,00	4743,59	2805,00		

PLANO			EXISTENTE				ALTURA		QUANT.		TOTAL		
NO	AREA	COTA	NO	COTA	ÁREA	QUANT	-	+	-	+	-	+	
1	31.823	4.576	1	4.77	1.320	5636.40		0.126		710.38			
			2	4.36	1.395	6294.70		0.316		504.02			
			3	4.62	1.078	5966.74		0.234		338.57			
			4	4.30	1.320	5942.80		0.036		214.57			
			5	4.56	1.400	7280.00		0.016		116.48			
			6	4.51	1.320	6855.20		0.016		109.68			
			7	4.56	1.020	4949.20		0.016		79.12			
			8	4.57	1.400	7312.00		0.006		43.87			
			9	4.56	1.320	6931.20		0.016		110.92			
			10	4.56	1.020	6979.20		0.016		111.67			
			11	4.57	1.400	7312.00		0.006		43.87			
			12	4.61	1.320	7097.20	0.031		219.98				
			13	4.65	1.020	6138.00	0.074		454.21				
			14	4.66	1.600	7456.00	0.086		641.22				

PLANO			EXISTENTE				ALTURA		QUANT.		TOTAL		
NO	AREA	COTA	NO	COTA	ÁREA	QUANT	-	+	-	+	-	+	
			15	4.70	1.320	7144.00	0.124		886.28				
			16	4.66	990	5613.90	0.084		471.76				
			17	4.72	1.200	5664.00	0.144		815.62				
			18	4.76	1.140	5426.40	0.184		998.78				
			19	4.62	1.320	6098.40	0.044		268.31				
			20	4.70	1.600	7520.00	0.124		932.48				
			21	4.72	1.320	7190.80	0.124		891.46				
						29813	146.145.64		15197.06		13.14		

PLANO			EXISTENTE				ALTURA		QUANT.		TOTAL		
Nº	ÁREA	COTA	Nº	COTA	ÁREA	QUANT.	−	+	−	+	−	+	
10	18.811	4.677	1	4.29	1.650	8.622.40		0.397		428.76			
			2	4.31	1.274	5.490.94		0.367		467.56			
			3	4.53	1.127	5.105.31		0.147		165.67			
			4	4.42	1.320	5.926.80		0.187		247.84			
			5	4.47	1.600	7.184.00		0.187		299.20			
			6	4.63	1.520	7.037.60		0.047		71.44			
			7	4.57	1.320	6.032.40		0.107		141.24			
			8	4.56	1.520	6.931.20		0.117		177.84			
			9	4.74	1.520	7.204.80	0.063		456.76				
			10	4.66	1.320	6.151.20		0.017		22.44			
			11	4.70	1.600	7.520.00	0.023		173.80				
			12	4.77	1.520	7.250.40	0.093		674.36				
			13	4.79	1.520	7.254.80	0.043		312.16				
			14	4.85	1.600	7.760.00	0.173		1342.80				

PLANO			EXISTENTE				ALTURA		QUANT.		TOTAL		
Nº	ÁREA	COTA	Nº	COTA	ÁREA	QUANT.	−	+	−	+	−	+	
			15	4.77	1.520	7.250.40	0.093		674.36				
			16	4.76	1.490	7.112.40	0.083		589.17				
			17	4.82	1.200	5.784.00	0.143		1171.60				
			18	4.81	1.140	5.423.40	0.133		1516.62				
			19	4.83	1.200	5.796.00	0.153		1836.00				
			20	4.87	1.600	7.792.00	0.123		958.80				
			21	4.92	1.520	7.478.40	0.223		1668.36				
					28.811	134.770.45			20.209	26.097	21.40		

PLANO			EXISTENTE				ALTURA		QUANT.		TOTAL	
NO	ÁREA	COTA	NO	COTA	ÁREA	QUANT.	-	+	-	+	-	+
11	22,501	1,218	1	4,66	,880	23.572,80		0,198		22,24		
			2	5,98	1,600	6.368,00		0,270		44,80		
			3	4,35	1,520	6.612,00	0,072		39,04			
			4	4,32	,891	3.862,88	0,062		5,71			
			5	4,16	1,600	6.656,00		0,078		15,60		
			6	4,23	1,520	6.427,60		0,020		42,56		
			7	4,23	,430	1.903,50		0,028		12,60		
			8	4,33	1,600	6.928,00	0,072		115,20			
			9	4,36	1,520	6.627,20	0,102		155,04			
			10	3,66	,15	549,00		0,598		8,97		
			11	4,20	1,446	6.073,20		0,060		86,07		
			12	4,50	1,520	6.840,00	0,212		322,24			
			13	3,86	1,271	4.909,92		0,398		506,26		
			14	4,37	1,520	6.642,40	0,112		170,24			

PLANO			EXISTENTE				ALTURA		QUANT.		TOTAL	
NO	ÁREA	COTA	NO	COTA	ÁREA	QUANT.	-	+	-	+	-	+
			15	4,17	,916	3.819,72		0,088		80,61		
			16	4,27	1,520	6.490,40	0,012		18,24			
			17	4,53	1,248	5.653,44	0,272		339,46			
			18	4,36	1,520	6.627,20	0,102		155,04			
					22,501	95.811,16			512,61	1.151,71	190	

PLANO			EXISTENTES				ALTURA		QUANT.		TOTAL		
NO	AREA	COTA	NO	COTA	AREA	QUANT.	−	+	−	+	−	+	
12	30.891	4.40	1	4.27	1.520	5636.40		0.212		229.84			
			2	4.36	1.600	6976.00		0.122		185.20			
			3	4.61	1.520	7007.20	0.128		194.56				
			4	4.41	1.520	5821.20		0.072		85.04			
			5	4.48	1.600	7168.00		0.002		3.20			
			6	4.72	1.520	7124.40	0.238		361.76				
			7	4.37	1.520	5768.40		0.112		147.84			
			8	4.40	1.600	7360.00	0.118		188.80				
			9	4.68	1.520	7113.60	0.198		300.96				
			10	4.51	1.520	5689.20		0.172		227.04			
			11	4.59	1.600	7344.00	0.108		172.80				
			12	4.62	1.520	7022.40	0.138		209.76				
			13	4.27	1.633	5804.37		0.172		259.78			
			14	4.04	1.600	7104.00		0.042		67.20			

PLANO			EXISTENTE				ALTURA		QUANT.		TOTAL		
NO	AREA	COTA	NO	COTA	AREA	QUANT.	−	+	−	+	−	+	
			15	4.74	1.520	7204.20	0.258		392.16				
			16	4.65	1.520	5546.00		0.152		570.24			
			17	4.60	1.600	7100.00		0.102		163.20			
			18	4.74	1.520	7264.20	0.258		392.16				
			19	4.25	1.254	5327.50		0.232		290.93			
			20	4.40	1.520	6680.00		0.082		124.64			
			21	4.44	1.444	6700.16	0.158		228.15				
					30891	158.470143			3.411	3.415	16.96		

LAGO		EXISTENTE				ALTURA		QUANT.		TOTAL	
AREA	COTA	NO	COT	AREA	QUANT.	−	+	−	+	−	+
13 30556	4.711	12	4.22	1.570	6.654.40		0.041		54.12		
		2	4.28	1.600	7.435.00		0.031		47.60		
		3	4.62	1.520	7.228.80		0.021		31.92		
		4	4.21	1.310	6.217.20		0.001		1.32		
		5	4.22	1.600	7.552.00	0.009		14.40			
		6	4.70	1.520	7.184.00		0.011		16.72		
		7	4.76	1.310	6.283.20	0.049		64.20			
		8	4.70	1.600	7.520.00		0.011		17.60		
		9	4.73	1.510	7.187.60	0.019		28.28			
		10	4.74	1.520	7.216.80	0.029		38.38			
		11	4.73	1.600	7.568.00	0.029		30.40			
		12	4.44	1.520	7.083.20		0.001		7.52		
		13	4.74	1.520	7.256.80	0.029		38.20			
		14	4.71	1.600	7.536.00		0.001		1.60		

LAGO		EXISTENTE				ALTURA		QUANT.		TOTAL	
AREA	COTA	NO	COT	AREA	QUANT.	−	+	−	+	−	+
		15	4.65	1.520	7.068.00		0.061		93.32		
		16	4.83	1.520	7.375.60	0.119		157.05			
		17	4.65	1.600	7.440.00		0.061		97.60		
		18	4.72	1.520	7.174.40		0.021		47.12		
		19	4.80	1.250	6.000.00	0.169		337.01			
		20	4.72	1.520	7.174.40		0.021		47.12		
		21	4.66	1.600	7.456.00		0.051		238.64		
					308.48	15.972.00			609.01	608.40	0.61

PLANO			EXISTENTE				ALTURA		QUANT.		TOTAL	
AREA	COTA		NO	COTA	AREA	QUANT.	−	+	−	+	−	+
24	29.313	4.24	1	4.47	1.320	6164.40		0.071		33.72		
			2	4.72	1.600	7552.00		0.021		33.60		
			3	4.80	1.320	7296.00	0.029		89.18			
			4	4.73	1.320	6249.60		0.011		10.52		
			5	4.74	1.600	7584.00		0.001		1.60		
			6	4.80	1.320	7296.00	0.029		89.68			
			7	4.72	1.310	6270.00	0.009		11.88			
			8	4.70	1.600	7520.00		0.041		45.60		
			9	4.71	1.520	7159.20		0.031		47.12		
			10	4.69	1.320	6190.80		0.051		67.32		
			11	4.70	1.600	7520.00		0.041		45.60		
			12	4.69	1.520	7128.80		0.051		77.52		
			13	4.68	1.320	6177.60		0.061		80.52		
			14	4.67	1.600	7472.00		0.071		113.60		

PLANO			EXISTENTE				ALTURA		QUANT.		TOTAL	
AREA	COTA		NO	COTA	AREA	QUANT.	−	+	−	+	−	+
			15	4.66	1.520	7083.20		0.031		123.12		
			16	4.72	1.320	6230.40		0.021		27.72		
			17	4.76	1.600	7616.00	0.019		53.40			
			18	4.97	1.351	6714.47	0.239		307.38			
			19	4.76	1.284	6112.04	0.019		23.83			
			20	4.91	1.548	7600.18	0.169		211.61			
			21	5.04	60	262.00	0.887		14.85			
	61					29.313	139.000.18			831.41	211.56	1.22

PLANO				EXTENSÕES				ALTURA		QUANT.		TOTAL		
ÁREA	COTA		NO	COT	ÁREA	QUANT		-	+	-	+	-	+	
6	9,451	5,413		1	5,45	875	4743,75		0,553		48213			
				2	5,79	1231	11002,49		0,623		14391			
				3	5,91	1,120	6931,20		0,503		64396			
				4	6,14	1,465	8925,10	0,727		14506				
				5	8,39	74	625,66	0,177		23510				
				6	4,28	1,020	6421,60		0,533		70356			
				7	5,81	1,407	8173,47	0,397		55858				
				8	5,81	1,020	6377,20		0,203		36796			
				9	5,81	729	4060,53	0,157		11446				
				10	5,75	893	6134,25	0,337		20098				
				11	5,50	9	64,77	0,117		764				
				12	5,98	8	47,84	0,567		4,54				
						9,451	52246,56			277171	277192	769		

PLANO				EXTENSÕES				ALTURA		QUANT.		TOTAL		
ÁREA	COTA		NO	COT	ÁREA	QUANT		-	+	-	+	-	+	

PARO			EXISTENTE				ALTURA		QUANT.		TOTAL	
AREA	COTA		PO	COTA	AREA	QUANT.	-	+	-	+	-	+
	4.586		1	4.62	1.380	1.840.96	0.104		3794			
			2	4.56	1.190	5406.40		0.226		28034		
			3	4.57	1.178	5147.86		0.216		28145		
			4	4.49	1.158	5197.41		0.096		11117		
			5	4.37	1.600	7024.00		0.196		31310		
			6	4.42	1.520	6718.40		0.166		25232		
			7	4.41	1.537	6780.96	0.054		8311			
			8	4.43	1.600	7148.00		0.056		8960		
			9	4.44	1.520	6900.80		0.046		6072		
			10	4.53	1.600	7240.00		0.056		8960		
			11	4.50	1.600	7200.00		0.086		13760		
			12	4.70	1.520	7144.00	0.114		17328			
			13	4.52	1.600	7232.00		0.066		10560		
			14	4.42	1.600	7072.00	0.046		5440			

PARO			EXISTENTE				ALTURA		QUANT.		TOTAL	
AREA	COTA		PO	COTA	AREA	QUANT.	-	+	-	+	-	+
			15	4.87	1.620	7937.80	0.304		48208			
			16	4.82	1.110	5350.20	0.234		25974			
			17	4.81	1.600	7696.00	0.224		35840			
			18	4.07	1.520	6286.40		0.516		32432		
			19	4.75	183	869.25	0.164		3001			
			20	4.62	1.600	7392.00	0.084		5880			
			21	5.05	1.570	7.862.80	0.254		19978			
			22	4.71	17	80.07	0.174		211			
			23	4.64	828	3881.12	0.254		4630			
			24	5.00	666	3.660.00	0.404		26330			
					35.773	135.631.24			337.18	32542	2576	

PLANO							ALTURA		QUANT.		TOTAL	
AREA	COTAS	NIVEL	COT.	AREA	QUANT.		−	+	−	+	−	+
17	33.92	4.622		1	4.50	1.083	4.8735		0.172		1348.81	
				2	4.99	1.240	5.8940		0.232		2976.68	
				3	4.63	1.175	5.4411	0.008		9.42		
				4	4.81	1.310	5.687.10		0.017		411.84	
				5	4.85	1.400	6.845.00		0.342		2340.20	
				6	4.55	1.520	6.916.00		0.072		107.44	
				7	4.45	1.320	5.874.60		0.142		187.44	
				8	4.55	1.400	7.028.00		0.242		387.20	
				9	4.56	1.420	6.427.20		0.242		378.24	
				10	4.60	1.020	4.600.00	0.378		498.96		
				11	4.93	1.600	7.888.00	0.302		422.80		
				12	4.82	1.620	7.826.40	0.198		300.96		
				13	4.93	1.320	6.507.60	0.308		406.56		
				14	4.71	1.140	5.369.00	0.08		100.80		

PLANO							ALTURA		QUANT.		TOTAL	
AREA	COTAS	NIVEL	COT.	AREA	QUANT.		−	+	−	+	−	+
				15	4.94	1.600	7.904.00	0.318		503.80		
				16	4.77	932	4.445.44	0.148		137.94		
				17	4.84	305	1.357.25		0.172		52.46	
				18	4.73	217	1.037.96	0.158		34.29		
				19	4.62	539	2.489.98		0.002		1.56	
				20	4.55	98	120.24		0.042		1.18	
							23.215.187.67	761		1.516.52		2.92

PLANO				EXTRACTOS			ALTURA		QUANT.		TOTAL	
AREA	COTA	PO		COT.	AREA	QUANT.	−	+	−	+	−	+
18	1257	5.147		1	4.67	1.073	7224.41		2.491		55833	
				2	4.90	1.140	5752.10		0.367		45503	
				3	1.87	1.178	5701.53		0.327		33531	
				4	4.53	1.310	6048.60		0.587		72184	
				5	4.88	1.400	7760.00		0.311		57120	
				6	5.14	1.471	8014.49	0.673		672.13		
				7	4.66	1.310	6251.70		0.507		667.34	
				8	5.36	1.068	8243.52	0.373		335.02		
				9	5.13	1.310	6721.10		0.037		4886	
				10	6.20	1.594	10037.70	1.633		970.00		
				11	6.25	819	5116.75	1.083		886.98		
				12	8.24	9	74.16	0.033		2.46		
				13	7.36	1	7.36	2.193		2.19		
				14	6.28	240	1507.20	1.113		267.12		

PLANO				EXTRACTOS			ALTURA		QUANT.		TOTAL	
AREA	COTA	PO		COT.	AREA	QUANT.	−	+	−	+	−	+
						13.57	70.16	96		3381.0	3942.54	62.34

MAZO			DESCUBIERTA				ALTURA		QUANT.		TOTAL		
AREA	COTA		NO	COTA	AREA	QUANT.	-	+	-	+	-	+	
19	1.791	5.36		1	4.90	9.40	46.06.00		0.416		191.04		
				2	4.96	7.08	1.031.68		0.936		2405		
				3	6.04	6.43	3.883.72	0.724		4553			
				4		1.791	9.521.40			4553	45.07	0.44	

MAZO			DESCUBIERTA				ALTURA		QUANT.		TOTAL		
AREA	COTA		NO	COTA	AREA	QUANT.	-	+	-	+	-	+	

PLANO			QUANT		+	TRA	DISTANCIA DE TRANSPORTE															
NO	AREA	COTA	ESCA	DEFI	IT	SPOR	20	30	40	50	60	70	80	90	100	120	140	160	180	200	240
1		16.124	5.85	1.427.12	1413.40	5.27	1422.27														
2		18.527	3.84	857.10	872.92	17.65	857.10														
3		12.641	3.55	472.50	464.94	15.62	472.50														
4		15.491	4.00	1124.62	1119.08	5.54	1124.62														
5		9.324	4.25	501.85	545.29	1.56	501.85														
6		18.757	4.20	1437.98	1414.56	19.32	1437.98														
7		31.271	4.44	6205.60	179.60	30.00	6208.60														
8		30.386	4.53	6330.00	301.45	22.57	6370.00														
9		27.823	4.57	5519.72	1506.15	13.54	5519.72														
10		28.811	4.677	2043.37	2020.29	21.40	2043.37														
11		21.501	4.256	1512.61	1510.71	1.90	1512.61														
12		30.891	4.428	2471.11	2424.15	16.96	2491.11														
13		30.858	4.711	402.01	403.60	0.41	409.01														
14		29.373	4.241	831.41	811.36	19.85	831.91														
15		9.431	5.51	2279.71	2272.02	7.69	2279.71														
16		30.173	4.552	1517.18	2488.41	28.76	2512.15														
17		23.797	4.472	1530.53	2498.55	21.94	2530.53														
18		13.573	5.167	3351.10	3349.30	32.76	3391.10														
19		1.791	5.914	415.53	415.09	0.44	415.53														

PLANO		QUANT		+	TRA	DISTANCIA DE TRANSPORTE													
NQ	AREA	COTA	ESCA	DEFICIT	SEOR	20	30	40	50	60	70	80	90	100	120	140	160	180	200	240
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]													

PLANO			QUANT.	+	TRAN.	DISTANCIA DE TRANSPORTE																
NQ	AREA	COTA	ESCA.	DEFICIT −	SPORTE	20	30	40	50	60	70	80	90	100	120	140	160	180	200	220	240
1																					
2																					

PLANO			QUANT	+	TRAN	DISTANCIA DE TRANSPORTE																	
NO	AREA	COTA	ESCA	DEFICIT	SPORTE	m 20	m 30	m 40	m 50	m 60	m 70	m 80	m 90	m 100	m 120	m 140	m 160	m 180	m 200	m 240
3								18.14	2.00			9.85	13.5	32.10	28.30	31.10	9.25		18.00	16.04
1												18.11	20.10	12.2	18.1	18.5	18.2			
												6.00	18.00	22.5	53.45	2.25	0.25			
														13.5	30.2	11.6				
													45.25		61.00	17.00				
													18.8		15.2					
													18.00		6.75					
								18.19	19.14	6.3	18.11	15.10	13.4	15.7	13.2		13.1			
4								53.19	21.60	11.07	1.82	14.11	18.13	7.02	15.85		11.84			
								19.11	12.8		9.3	12.5	16.7	18.10	16.4					
								83.78	57.40		96.43	31.90	13.25	8.31	11.750					
									9.5											
									17.77											

PLANO			QUANT	+	TRAN	DISTANCIA DE TRANSPORTE																			
NQ	AREA	COTA	ESCA	DEFICIT	SPORTE	20 m	30 m	40 m	50 m	60 m	70 m	80 m	90 m	100 m	120 m	140 m	160 m	180 m	200 m	240 m
5							2 1	2 3	4 6	5 6		8 9	15 9							
							22.60	1.33	15.83	29.88		17.88	20.91							
								4 3	7 9											
								22.95	42.00											
								12 10	8 10											
								102.50	54.31											
6							1 8	3 8	8 16		22 16	12 6	18 11		18 10	15 6	14 4		14 8	17 4
							27.12	5.22	17.14		83.83	84.08	1.60		3.40	111.37	30.12		30.28	57.56
							22.83	20.25				80.13				14 9	15.5			17.5
							22.48	5.93				53.68				157.82	83.76			196.84
												30.16				18.10	18 8			15 6
												55.86				28.96	105.10			100.18
																30.10				19.7
																51.95				50.08

PLANO			QUANT	+	TRAN	DISTANCIA DE TRAONSPORTE																			
NQ	AREA	COTA	ESCA.	DEFICIT	SPORTE	20 m	30 m	40 m	50 m	60 m	70 m	80 m	90 m	100 m	120 m	140 m	160 m	180 m	200 m	240 m
7							41.1	18.5	6.2	18.2		9.2	18.5	18.22	18.3	11.20				
							87.00	31.00	18.60	89.00		13.20	12.00	39.80	22.20	91.40				
							11.40			11.9		12.6	11.6		15.19	61.83				
							89.20			85.40		39.80	83.80		50.20	58.20				
										11.63		11.17	11.14							
										89.20		80.00	79.20							
												14.19								
												12.00								
												18.83								
												5.80								
												11.22								
												29.80								
												34.22								
												111.40								
												15.20								
												19.40								
													17.10	11.2		18.6	14.4	15.3	13.1	16.4	16.1	18.14	22.4
8													7.88	6.40		14.83	10.88	36.85	31.18	56.53	41.85	89.16	58.08
																	17.7		14.2	17.5	17.2	20.5	89.5
																	24.00		9.85	18.59	10.23	16.80	18.97
																			23.12	18.6	13.8	18.9	23.6
																			9.12	15.80	11.60	10.32	12.89
																						21.6	18.6
																						88.36	14.19

PLANO			QUANT.	+	TRANSPORTE	DISTANCIA DE TRAONSPORTE																		
NO	AREA	COTA	ESCA.	DEFICIT		20 m	30 m	40 m	50 m	60 m	70 m	80 m	90 m	100 m	120 m	140 m	160 m	180 m	200 m	240 m
9												77.01			77.7	12.12	25.1	12.6	16.1	19.1
												21.12			21.2	51.68	37.86	97.48	100.32	83.16	18.08
												16.11			18.8			14.1		17.1	20.1
												9.60			9.60			10.00		20.60	18.89
																		17.14		17.2	21.3
																		7.57		52.08	87.1
																		51.2		70.2	
																		89.48		10.07	
																		18.51		18.3	
																		25.48		15.89	
													9.2		12.7	12.4	20.7	13.1	16.1	19.1
10													85.76		122.33	86.97	18.51	83.16	82.17	18.60
													12.5		20.10	12.2	21.8	14.1	21.6	20.2
													20.21		22.04	58.15	110.85	79.83	92.84	166.85
															11.2	65.5		19.4		21.9
															16.80	18.16		19.87		115.27
															14.0			18.5		
															66.99			81.9		

PLANO			QUANT.	+	TRAN	DISTANCIA DE TRAONSPORTE																	
NO	AREA	COTA	ESCA	DEFICIT	SPORTE	20 m	30 m	40 m	50 m	60 m	70 m	80 m	90 m	100 m	120 m	140 m	160 m	180 m	200 m	240 m
11								4.71		10.11	3.1	0.2	2.2	14.7						
								6.71		10.07	177.53	110.10	55.04	1.37						
								3.2		16.3		12.2	12.2							
								12.31		10.24		0.72	15.10							
								14.63				12.6	10.12							
								7.03				12.56	55.04							
								7.15				12.7								
								8.51				11.23								
												4.10								
												8.97								
												7.13								
												24.88								
								6.15		6.2		3.1	6.1		8.13					
12								3.80		135.10		134.56	55.28		10.72					
								8.7		8.4		6.4	9.10							
								14.84		16.86		7.50	22.04							
										8.10		18.16	9.14							
										24.00		12.25	12.30							
										11.13		11.9	12.13							
										112.10		22.15	56.16							
										15.12			15.17							
										2.70			15.30							
										10.80			15.16							
										134.14			55.46							
													15.12							
													22.24							

PLANO			QUANT	+	TRA	DISTANCIA DE TRAONSPORTE																	
NQ	AREA	COTA	ESCA	DEFICIT −	SPOR TE	m 20	m 30	m 40	m 50	m 60	m 70	m 80	m 90	m 100	m 120	m 140	m 160	m 180	m 200	m 240
13								5.2 / 19.40	11.7 / 18.72	10.8 / 17.62		7.1 / 5.16	7.2 / 19.56		10.2 / 24.64	11.3 / 5.26				
								9.6 / 2.72		16.18 / 2.60		9.3 / 16.16	13.12 / 38.28		10.6 / 20.00					
								16.17 / 28.80				10.4 / 1.32	16.15 / 31.72		16.12 / 22.08					
								19.20 / 19.53				18.12 / 1.16	19.10 / 27.12							
												19.31 / 21.64								
14								6.5 / 2.60	23.16 / 8.79	6.2 / 22.60	2.16 / 1.25	9.1 / 22.60	6.1 / 5.04		13.8 / 22.60	14.8 / 30.52				
								6.9 / 21.92		18.13 / 2.62		6.4 / 12.52	10.12 / 12.60			20.10 / 17.32				
								7.8 / 2.60				7.9 / 11.20	28.13 / 30.32							
								10.15 / 12.31				18.12 / 22.52								
								19.16 / 23.03				23.14 / 10.92								

PLANO			QUANT.	+	TRANSPORTE	DISTANCIA DE TRANSPORTE																	
NQ	AREA	COTA	ESCA	DEFICIT		20 m	30 m	40 m	50 m	60 m	70 m	80 m	90 m	100 m	120 m	140 m	160 m	180 m	200 m	240 m
15							2'6	4'3	4'1		5'1	6'6								
							103.85	163.96	40.08		21.54	19.85								
								10'8	5'2		7'2									
								23'17	103.6		8.35									
									9'6		11.6									
									18.65		6.05									
											18.0									
											1.64									
								7'4		12'8	24'18	16'10	7'2		20'11		22'11	16'2		17'2
								39.94		39.10	163.20	89.60	11.88		58.40		2'11	52.07		33.96
16								7'4		15'11			12.5		15'6		23'11	12'5		17'5
								21.65		25.67			28.66		180.96		86.33	20.55		30.01
								16.03										17.5		21'6
								10.50										18.84		20.38
								12'11										15'3		
								9.07										35.45		
								21'18										21'9		
								50.75										18.92		

PLANO				QUANT.		+	TRA	DISTANCIA DE TRAONSPORTE																	
NOS	AREA	COTA	ESCA	DEFICIT			SUPOR TE	20	30	40	50	60	70	80	90	100	120	140	160	180	200	240
17										16.19		16.20		16.4	13.8	18.9	10.1	15.5				
										1.06		1.18		17.85	18.83	34.75		17.81	17.83			
										16.17		3.5		13.7	11.5		13.4					
										17.86		9.22		187.84	300.96		17.69					
										11.8				11.5			16.8					
										17.53				82.58			83.71					
														15.9			11.2					
														155.83			387.10					
																	14.51					
																	160.00					
																	15.6					
																	159.84					
18									12.9	10.7	6.2	8.4	10.5	11.7	8.1		11.4					
									27.66	51.05	85.08	94.58	140.50	138.71	50.83		22.85					
									10.9	6.5		12.9	9.3									
									18.99	66.70		219	84.14									
										6.7												
										15.25												

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PLANO			QUANT	+	TRAN	DISTANCIA DE TRAONSPORTE																	
NQ	AREA	COTA	ESCA.	DEFICIT ±	SPOR TE	20 m	30 m	40 m	50 m	60 m	70 m	80 m	90 m	100 m	120 m	140 m	160 m	180 m	200 m	240 m
19																				