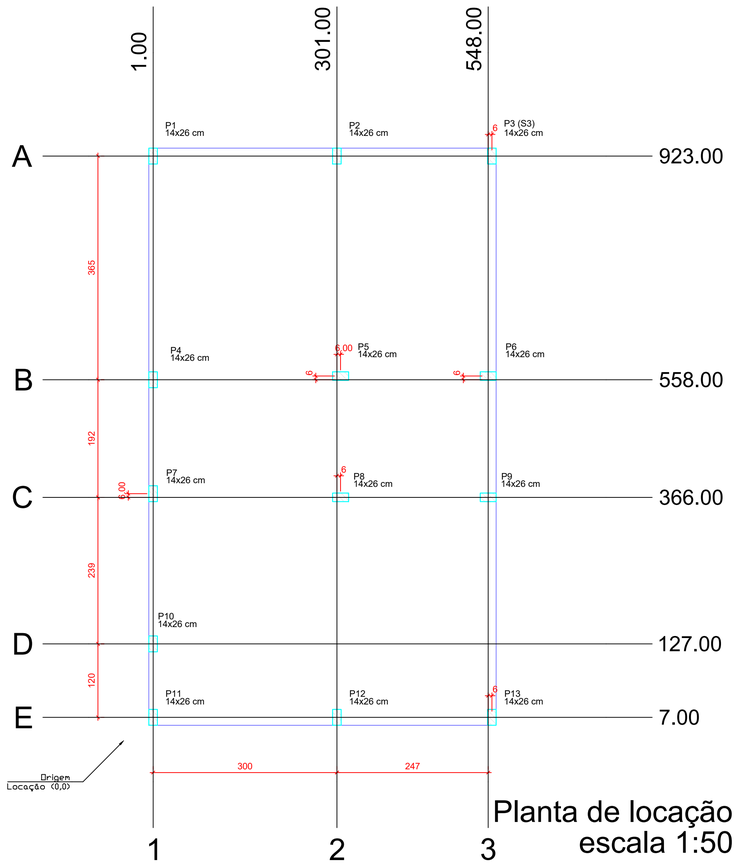
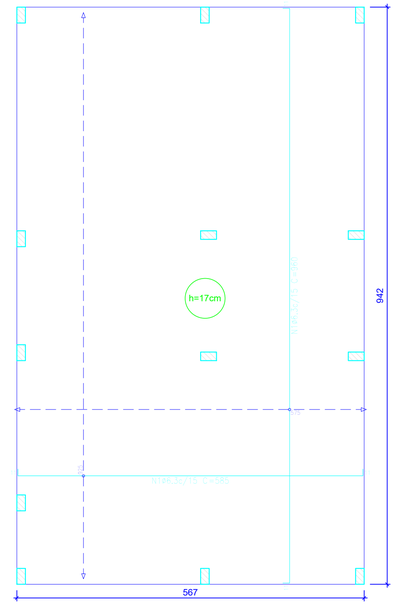


Planta de locação
escala 1:50



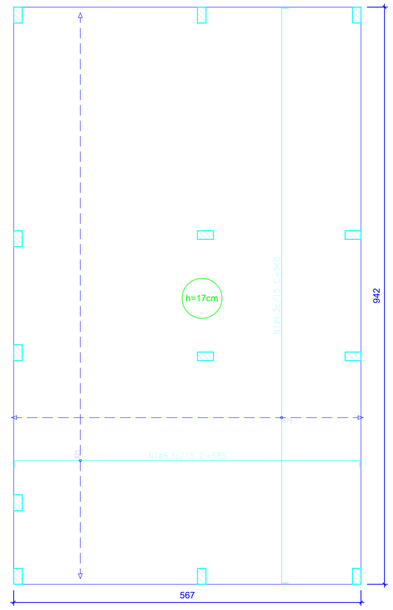
Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
Armadura longitudinal inferior	1	ø6.3	62	11	563	11	585	36270	88.8	
								Total:	88.8	
								ø6.3:	88.8	0.0
								Total:	88.8	0.0

Resumo Aço Térreo Armadura longitudinal inferior		Comp. total (m)	Peso (kg)
CA-50	ø6.3	362.7	89

Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
Armadura transversal inferior	1	ø6.3	39	11	938	11	960	37440	91.7	
								Total:	91.7	
								ø6.3:	91.7	0.0
								Total:	91.7	0.0

Resumo Aço Térreo Armadura transversal inferior		Comp. total (m)	Peso (kg)
CA-50	ø6.3	374.4	92

Radier armadura longitudinal e transversal inferior Nivel 0
escala 1:50



Radier armadura longitudinal e transversal superior Nivel 0
escala 1:50

Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
Armadura longitudinal superior	1	ø6.3	62	11	563	11	585	36270	88.8	
								Total:	88.8	
								ø6.3:	88.8	0.0
								Total:	88.8	0.0

Resumo Aço Térreo Armadura longitudinal superior		Comp. total (m)	Peso (kg)
CA-50	ø6.3	362.7	89

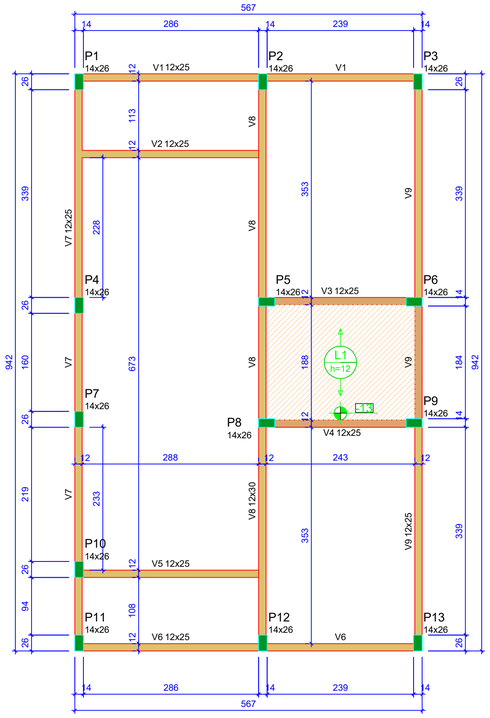
Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
Armadura transversal superior	1	ø6.3	39	11	938	11	960	37440	91.7	
								Total:	91.7	
								ø6.3:	91.7	0.0
								Total:	91.7	0.0

Resumo Aço Térreo Armadura transversal superior		Comp. total (m)	Peso (kg)
CA-50	ø6.3	374.4	92

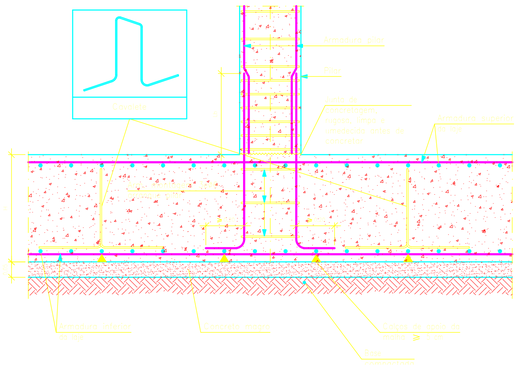
Térreo				
Elemento	Armação (m2)	superfícies (m2)	volumes (m3)	Aço (kg)
Vigas de fundação (rosier)	5.13	53.41	9.08	382

Características dos materiais		
fck (MPa)	Ecs (MPa)	Abatimento (cm)
20	21287	10±2

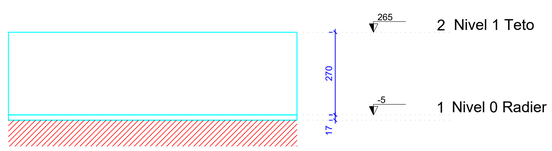
Dimensão máxima do agregado = 19 mm



Forma do pavimento Nivel 1 Teto (Nível 265)
escala 1:50



Detalhe encontro pilar com o radier
escala 1:50



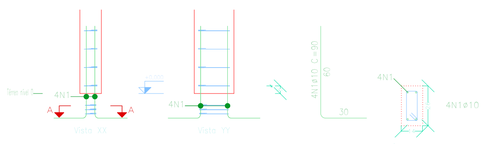
Corte Y-Y
Esquemático
escala 1:100

Lajes - NÍVEL 1 TETO					
Nome	Tipo	Altura (cm)	Elevação (cm)	Nível (cm)	Sobrecarga (kgf/m²)
L1	Pré-moldada	12	-13	252	582

Características dos materiais		
fck (MPa)	Ecs (MPa)	Abatimento (cm)
20	21287	10.00

Dimensão máxima do agregado = 19 mm

Vigas - NÍVEL 1 TETO			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
V1	12x25	0	265
V2	12x25	0	265
V3	12x25	0	265
V4	12x25	0	265
V5	12x25	0	265
V6	12x25	0	265
V7	12x25	0	265
V8	12x30	0	265
V9	12x25	0	265



Arranque dos pilares
escala 1:50

Pilar					
Nome	Seção (cm)	X (cm)	Y (cm)	Posição	Carga Máx. (tf)
P1	14x26	1.00	923.00	A-1	3.69
P2	14x26	301.00	923.00	A-2	5.41
P3	14x26	554.00	923.00	A-3	2.61
P4	14x26	1.00	558.00	B-1	3.21
P5	14x26	307.00	564.00	B-2	5.61
P6	14x26	548.00	564.00	B-3	5.00
P7	14x26	1.00	372.00	C-1	1.77
P8	14x26	307.00	366.00	C-2	5.51
P9	14x26	548.00	366.00	C-3	5.01
P10	14x26	1.00	127.00	D-1	3.12
P11	14x26	1.00	7.00	E-1	1.87
P12	14x26	301.00	7.00	E-2	5.36
P13	14x26	554.00	7.00	E-3	2.65

Legenda das vigas e paredes	
	Viga
	Viga / Laje chata ou invertida

Legenda dos pilares	
	Pilar que morre
	Pilar que nasce

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
P1=P2=P3=P4=P7 P10=P11=P12=P13	1	ø10	4	90	90	360	2.2	
	2	ø5	3	63	63	189		0.3
						Total: (x10):	2.2 28.6	0.3 3.9
						ø5: ø10: Total:	0.0 28.6 28.6	3.9 0.0 3.9

Pos.	Diam.	Q.	Comp. (cm)	Total (cm)	Total (cm)
1	ø10	4	90	360	4680
2	ø5	3	63	189	2457

ESTADO DE SANTA CATARINA
MUNICÍPIO DE MATOS COSTA
Rua Manoel Lourenço de Araújo, nº 137, Centro - CEP 89.420-000
CNPJ 83.102.566/0001-51 - Fone (49) 3572 1111 - 3572 1121
email: prefeitura@matoscosta.sc.gov.br - engenharia@matoscosta.sc.gov.br

Projeto Estrutural e Fundação - Unidade Habitacional FNHIS SUB-50

Obra: FNHIS SUB-50

Endereço: Rua Projetada, S/N

Proprietário: Prefeitura Municipal de Matos Costa

Assinatura

Prancha nº: 01-02

Referências:
- Locação;
- Detalhes Fundação;
- Detalhes Baldrame;
- Detalhes Arranques.

Escala: Indicada

Área Útil: 47,46 m²

Data: Setembro/2025

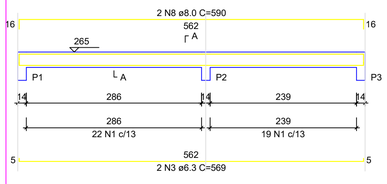
Responsável Técnico:
Kelvin Ciotta
Engenheiro Civil
CREA/SC 188049-8

KELVIN CIOTTA:06944624974
Assinado de forma digital por KELVIN CIOTTA:06944624974
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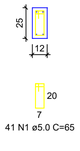
Assinatura

FORMATO A1 - INTERNO: 801 x 574 mm.
EXTERNO: 841 x 594 mm.

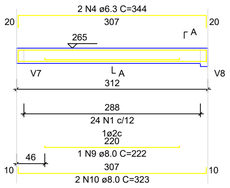
V1
ESC 1:50



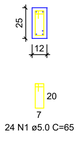
SEÇÃO A-A
ESC 1:25



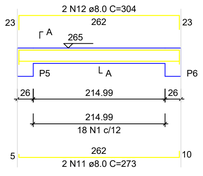
V2
ESC 1:50



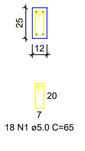
SEÇÃO A-A
ESC 1:25



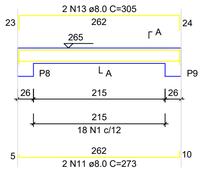
V3
ESC 1:50



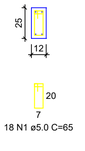
SEÇÃO A-A
ESC 1:25



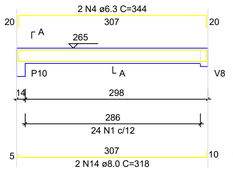
V4
ESC 1:50



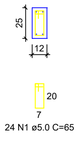
SEÇÃO A-A
ESC 1:25



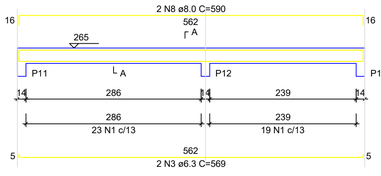
V5
ESC 1:50



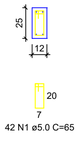
SEÇÃO A-A
ESC 1:25



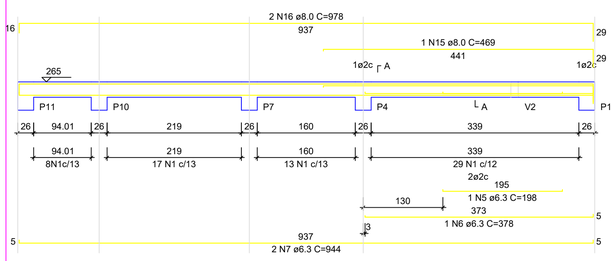
V6
ESC 1:50



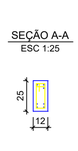
SEÇÃO A-A
ESC 1:25



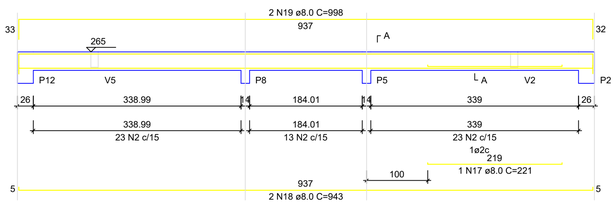
V7
ESC 1:50



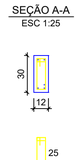
SEÇÃO A-A
ESC 1:25



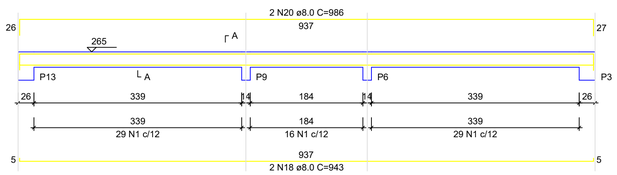
V8
ESC 1:50



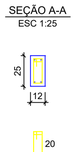
SEÇÃO A-A
ESC 1:25

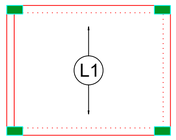


V9
ESC 1:50

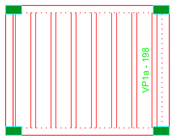


SEÇÃO A-A
ESC 1:25



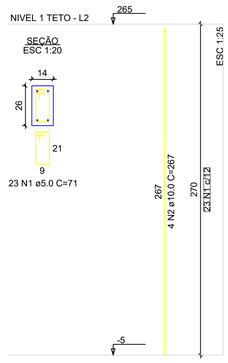


Armação positiva das lajes do pavimento Nivel 1 Teto
escala 1:50



Planta de vigotas pré-moldadas
escala 1:50

P1=P2=P3=P4=P5=P6=P7=
=P8=P9=P10=P11=P12=
=P13



RELAÇÃO DO AÇO - VIGAS NIVEL 1 TETO

V1 V2 V3
V4 V5 V6
V7 V8 V9

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	308	65	20020
	2	5.0	59	75	4425
CA50	3	6.3	4	569	2276
	4	6.3	4	344	1376
	5	6.3	1	198	198
	6	6.3	1	378	378
	7	6.3	2	944	1888
	8	8.0	4	590	2360
	9	8.0	1	222	222
	10	8.0	2	323	646
	11	8.0	4	273	1092
	12	8.0	2	304	608
	13	8.0	2	305	610
	14	8.0	2	318	636
	15	8.0	1	469	469
	16	8.0	2	978	1956
	17	8.0	1	221	221
	18	8.0	4	943	3772
	19	8.0	2	998	1996
	20	8.0	2	986	1972

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 0% (kg)
CA50	6.3	61.2	15
	8.0	165.6	65.3
CA60	5.0	244.5	37.7
PESO TOTAL (kg)			
CA50	80.3		
CA60	37.7		

Volume de concreto (C-20) = 1.78 m³
Área de forma = 32.67 m²

RELAÇÃO DO AÇO - PILARES NIVEL 1 TETO

13xP1

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	299	71	21229
CA50	2	10.0	52	267	13884

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 0% (kg)
CA50	10.0	138.8	85.6
CA60	5.0	212.3	32.7
PESO TOTAL (kg)			
CA50	85.6		
CA60	32.7		

Volume de concreto (C-20) = 1.28 m³
Área de forma = 28.08 m²

ESTADO DE SANTA CATARINA
MUNICÍPIO DE MATOS COSTA
Rua Manoel Lourenço de Araújo, nº 137, Centro - CEP 89.420-000
CNPJ 83.102.566/0001-51 - Fone (49) 3572 1111 - 3572 1121
email: prefeitura@matoscosta.sc.gov.br - engenharia@matoscosta.sc.gov.br

Projeto Estrutural - Unidade Habitacional FNHIS SUB-50

Obra: FNHIS SUB-50

Endereço: Rua Projetada, S/N

Proprietário: Prefeitura Municipal de Matos Costa

Assinatura

Prancha nº: 02-02

Referências:
- Detalhes Vigas;
- Detalhes Laje;
- Detalhes Pilares.

Escala: Indicada

Área Útil: 47,46 m²

Responsável Técnico:
Kelvin Ciotta
Engenheiro Civil
CREA/SC 188049-8

KELVIN CIOTTA:06944624974
Assinado de forma digital por KELVIN CIOTTA:06944624974
Dados: 2025.10.09 13:24:14 -03'00'

Assinatura

Data: Setembro/2025

FORMATO A1 - INTERNO: 801 x 574 mm.
EXTERNO: 841 x 594 mm.