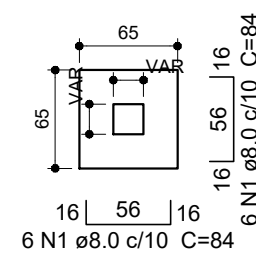
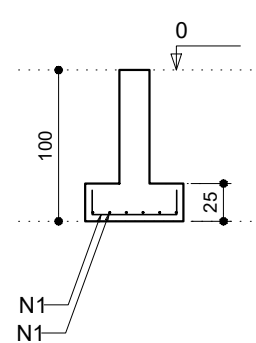


S1=S2=S3=S4=S5=S6=S7=S13=S15=S17=S19
=S31=S32=S42=S43=S44=S46=S47=S52=S65
=S67=S78=S80=S81=S82=S83=S84=SF54=SF85

PLANTA
ESC 1:50

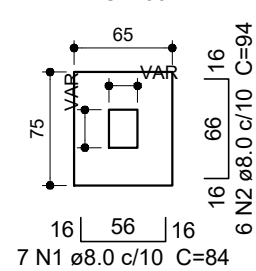


CORTE
ESC 1:50

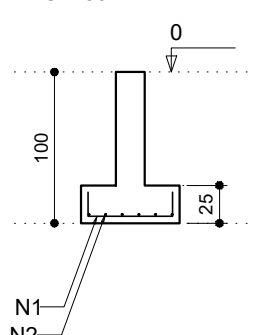


S8=S22=S45=S55=S68=S79

PLANTA
ESC 1:50

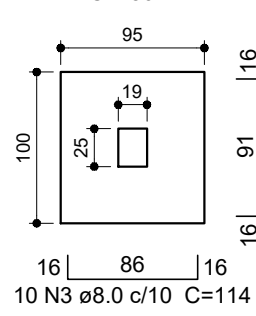


CORTE
ESC 1:50

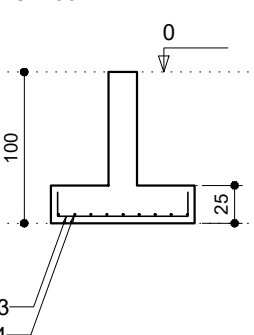


S9=S21=S24=S38=S76

PLANTA
ESC 1:50

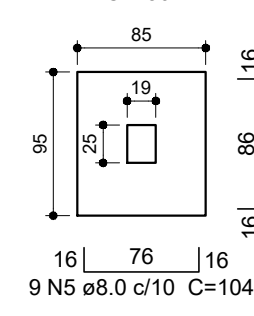


CORTE
ESC 1:50

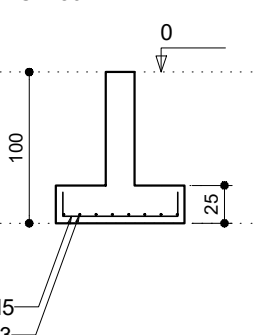


S10=S12=S16=S20=S25=S36=S57

PLANTA
ESC 1:50

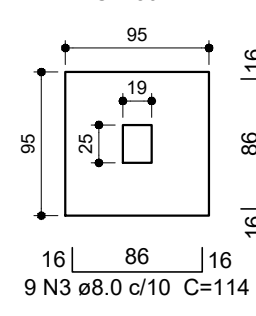


CORTE
ESC 1:50

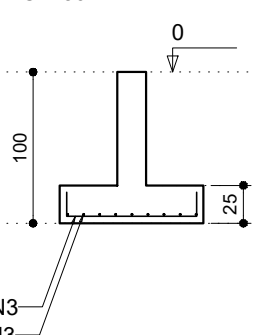


S11=S14=S28=S29

PLANTA
ESC 1:50

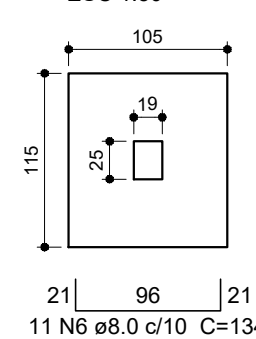


CORTE
ESC 1:50

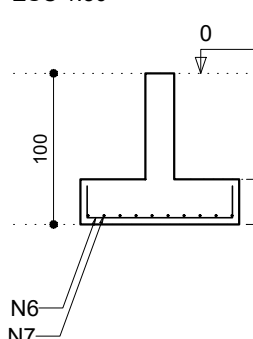


S18=S60=S63

PLANTA
ESC 1:50

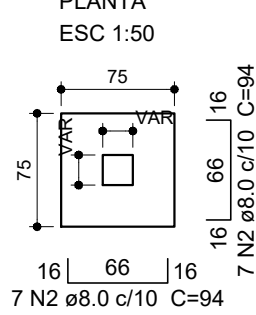


CORTE
ESC 1:50

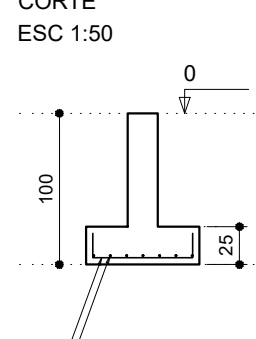


S23=S33=S34=S35=S37=S39=S41=S48=S49=S50
=S51=S53

PLANTA
ESC 1:50

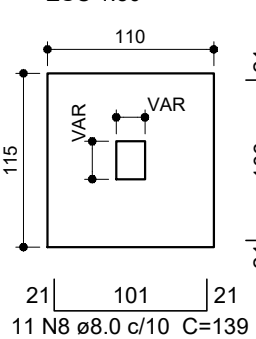


CORTE
ESC 1:50

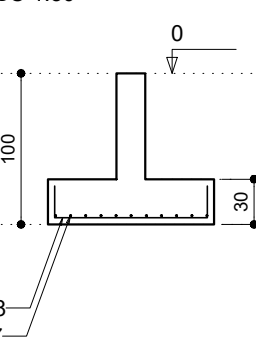


S26=S30=SF64

PLANTA
ESC 1:50

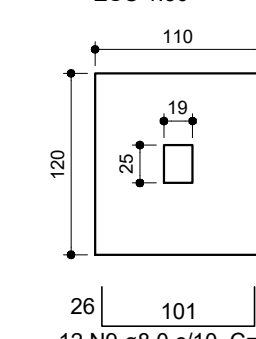


CORTE
ESC 1:50

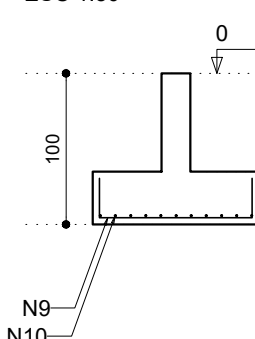


S27

PLANTA
ESC 1:50

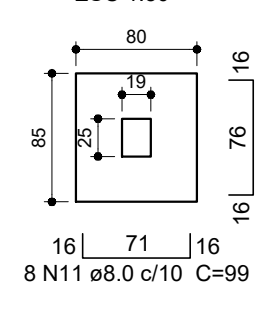


CORTE
ESC 1:50

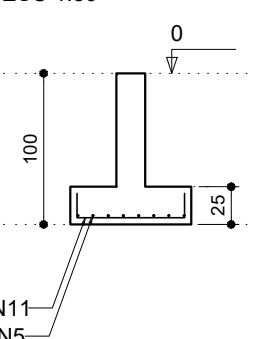


S40=S62=S73=S75

PLANTA
ESC 1:50

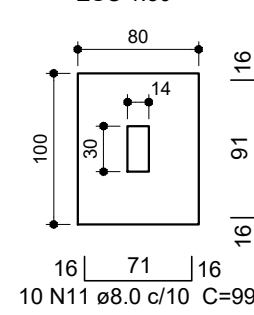


CORTE
ESC 1:50

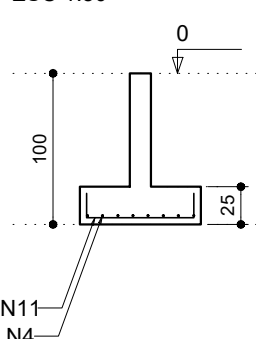


S56

PLANTA
ESC 1:50

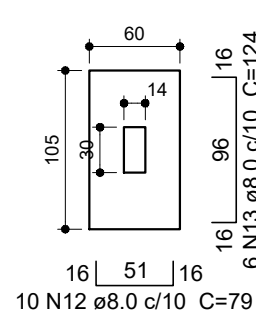


CORTE
ESC 1:50

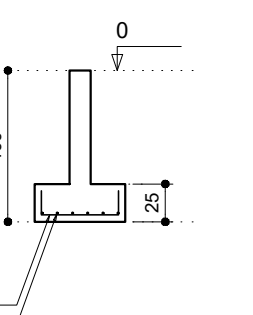


S58=S69

PLANTA
ESC 1:50

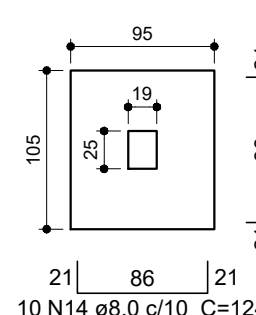


CORTE
ESC 1:50

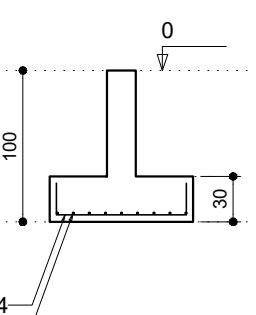


S59=S61=S74

PLANTA
ESC 1:50

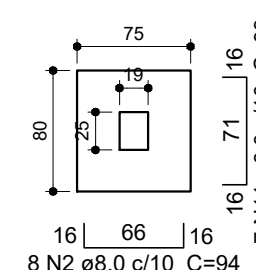


CORTE
ESC 1:50

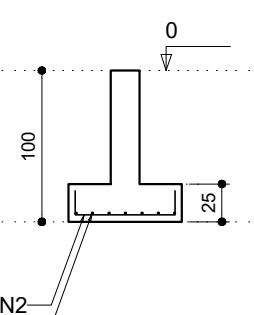


S66=S72

PLANTA
ESC 1:50

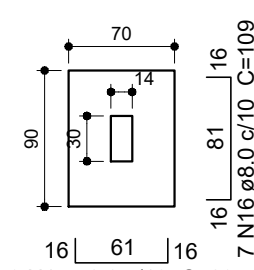


CORTE
ESC 1:50

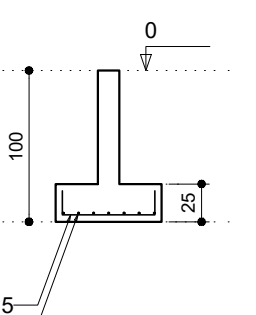


S70

PLANTA
ESC 1:50

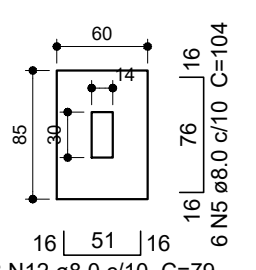


CORTE
ESC 1:50

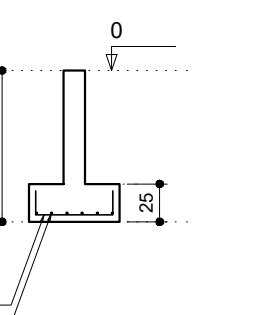


S71

PLANTA
ESC 1:50

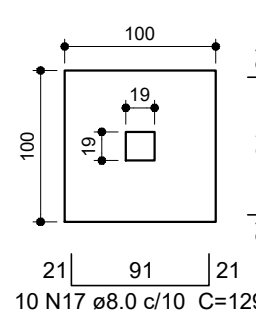


CORTE
ESC 1:50

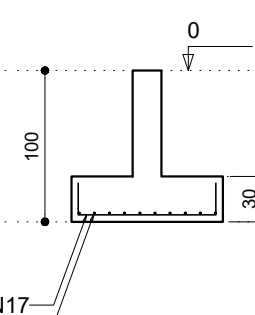


SF77

PLANTA
ESC 1:50



CORTE
ESC 1:50



Relação do aço

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA50	1	8.0	390	84	32760
	2	8.0	220	94	20680
	3	8.0	178	114	20292
	4	8.0	53	119	6307
	5	8.0	101	104	10504
	6	8.0	60	134	8040
	7	8.0	63	144	9072
	8	8.0	33	139	4587
	9	8.0	12	149	1788
	10	8.0	11	159	1749
	11	8.0	56	99	5544
	12	8.0	28	79	2212
	13	8.0	12	124	1488
	14	8.0	30	124	3720
	15	8.0	9	89	801
	16	8.0	7	109	763
	17	8.0	20	129	2580

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10 % (Barras)	PESO + 10 % (kg)
CA50	8.0	1328.9	122	576.8
PESO TOTAL (kg)				
CA50		576.8		

Volume de concreto (C-25) = 14.65 m³

Área de forma = 70.37 m²

NOTAS:

- PROJETOS DE ACORDO COM A NORMA DE DESEMPENHO DAS EDIFICAÇÕES NBR 15575:2013. PROJETO ESTRUTURAL DE ACORDO COM A NBR 6118:2014 E PROJETO DE FUNDAÇÃO DE ACORDO COM A NBR 6122:2010.
- DIMENSÕES E NÍVEIS EM CENTÍMETROS IMPORTADOS DO PROJETO ARQUITETÔNICO.
- CLASSE DE AGRESSIVIDADE AMBIENTAL 2.
- VIDA ÚTIL DA ESTRUTURA = 50 ANOS DE ACORDO COM A NBR 6118:2014.
- COBRIMENTO NOMINAL DA ARMADURA:
 - FUNDAÇÃO = 4.5CM
 - PILARES = 2.5CM
 - VIGAS = 2.5CM
 - LAJES = 2CM
- AS DEMILITAÇÕES DO LOTE FORAM IMPORTADAS DO PROJETO ARQUITETÔNICO, CONFORME FOI DISPONIBILIZADO.
- AS PROFUNDIDADES DAS FUNDAÇÕES SE ENCONTRAM NAS PRANCHAS DE DETALHAMENTO DA FUNDAÇÃO.
- FICA EXPRESSAMENTE PROIBIDA A ADIÇÃO DE PEDRAS CALÇADINHA/ PEDRA DE MÃO NAS CINTAS DA FUNDAÇÃO, ARRIMO OU QUALQUER OUTRO ELEMENTO ESTRUTURAL DE ACORDO COM A NORMA NBR 6122/2010.
- AS LAJES SÓ PODERÃO SER CONCRETADAS DEPOIS DO ENGENHEIRO CONFERIR A ARMAÇÃO.
- QUALQUER ALTERAÇÃO OU DIVERGÊNCIA DO PROJETO COM A EXECUÇÃO DEVEM SER INFORMADAS IMEDIATAMENTE AO ENGENHEIRO RESPONSÁVEL PELO PROJETO.
- NO ENCONTRO DAS VIGAS COM OS PILARES A PREFERÊNCIA DOS ESTRIBOS É SEMPRE DOS ESTRIBOS DOS PILARES.
- O TEMPO DO ESCORAMENTO DEVE SER DE NO MÍNIMO 15 DIAS
- CONCRETO ESTRUTURAL fck > 25,0 MPa. FATOR A/C < 0,60.

SOUZA CAMARGOS
ENGENHARIA

Contatos: (37) 3215 - 0267
E-mail: souzacamargos.projetos@gmail.com

RESPONSÁVEL TÉCNICO:

FELIPE HENRIQUE CAMARGOS
CREA: 248.394/D

RESPONSÁVEL PELA OBRA:

MUNICÍPIO DE IGARATINGA
CNPJ: 18.313.825/0001-21

PROJETO DE ESTRUTURA EM CONCRETO ARMADO E FUNDAÇÃO

CONTÉM: DETALHAMENTO SAPATAS.	ASSUNTO: PROJETO EXECUTIVO DE ESTRUTURA DE CONCRETO ARMADO E FUNDAÇÕES PARA O CEMEI ANA LUCINDA EM IGARATINGA, MUNICÍPIO DE MINAS GERAIS. LOCAL: PRAÇA MANOEL DE ASSIS, N° 272 FINALIDADE: EDUCAÇÃO RESPONSÁVEL: MUNICÍPIO DE IGARATINGA ÁREA DO TERRENO: 1.605,28 m² ÁREA A CONSTRUIR: 1572,42 m² DESENHO: THALYS DE SOUZA C.	MUNICÍPIO: IGARATINGA/MG CNPJ: 18.313.825/0001-21 FOLHA: 03/37
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