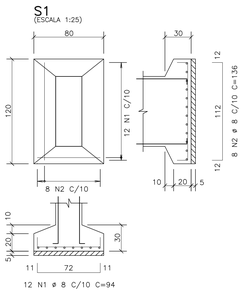
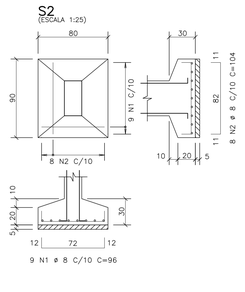
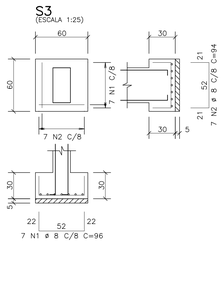
S1
(ESCALA 1:25)



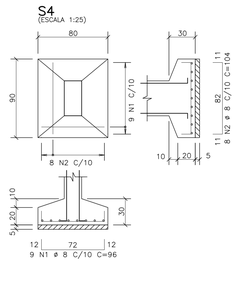
S2
(ESCALA 1:25)



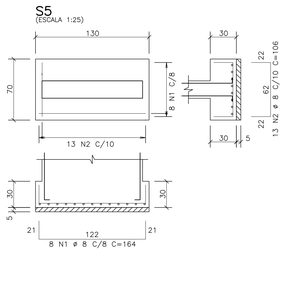
S3
(ESCALA 1:25)



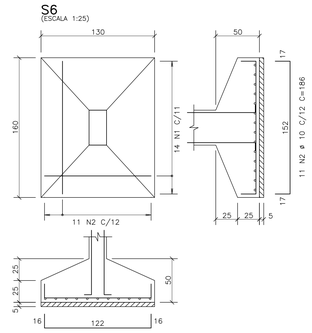
S4
(ESCALA 1:25)



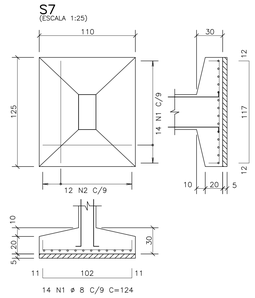
S5
(ESCALA 1:25)



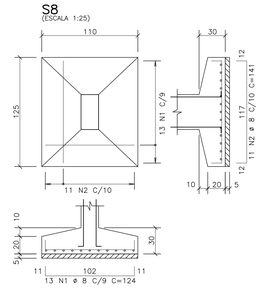
S6
(ESCALA 1:25)



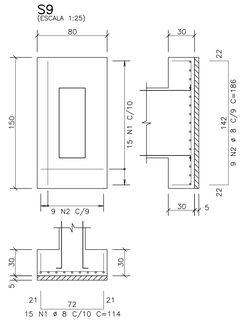
S7
(ESCALA 1:25)



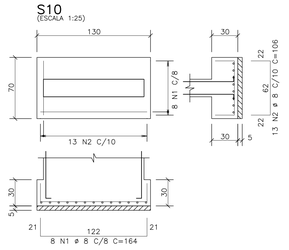
S8
(ESCALA 1:25)



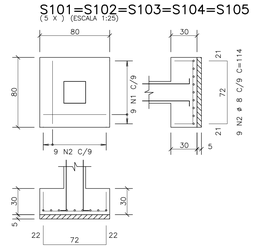
S9
(ESCALA 1:25)



S10
(ESCALA 1:25)



S101=S102=S103=S104=S105
(5 x) (ESCALA 1:25)



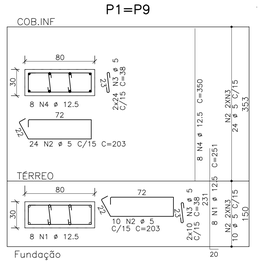
AÇO	POS	BIT	QUANT	COMPRIMENTO	
				UNIT	TOTAL
		mm		cm	cm
S1					
50A	1	8	12	94	1128
50A	2	8	8	136	1088
S2					
50A	1	8	9	96	864
50A	2	8	8	104	832
S3					
50A	1	8	7	96	672
50A	2	8	7	94	658
S4					
50A	1	8	9	96	864
50A	2	8	8	104	832
S5					
50A	1	8	8	164	1312
50A	2	8	13	106	1378
S6					
50A	1	10	14	154	2156
50A	2	10	11	186	2046
S7					
50A	1	8	14	124	1736
50A	2	8	12	141	1692
S8					
50A	1	8	13	124	1612
50A	2	8	11	141	1551
S9					
50A	1	8	15	114	1710
50A	2	8	9	186	1674
S10					
50A	1	8	8	164	1312
50A	2	8	13	106	1378
S101=S102=S103=S104=S105	(X5)				
50A	1	8	45	116	5220
50A	2	8	45	114	5130
P1=P9	(X2)				
50A	1	12.5	16	251	4016
60B	2	5	68	203	13804
60B	3	5	136	38	5168
50A	4	12.5	16	350	5600
P2=P6	(X2)				
50A	1	12.5	12	251	3012
60B	2	5	20	103	2060
60B	3	5	74	28	2072
50A	4	12.5	12	397	4764
60B	5	5	54	103	5562
P3=P7	(X2)				
50A	1	10	12	220	2640
60B	2	5	26	103	2678
60B	3	5	112	28	3136
50A	4	10	12	510	6120
60B	5	5	86	103	8858
P4=P8	(X2)				
50A	1	10	12	220	2640
60B	2	5	120	103	12360
60B	3	5	120	28	3360
50A	4	10	12	561	6732
P5=P10	(X2)				
50A	1	12.5	24	251	6024
60B	2	5	98	253	24794
60B	3	5	392	28	10976
50A	4	12.5	24	577	13848
P102_A_P105	(X5)				
50A	1	10	20	406	8120
60B	2	5	165	83	13695

PAVIMENTO: TÉRREO			
RESUMO DE AÇO			
AÇO	BIT	COMPR	PESO
	mm	m	kgf
60B	5	360	55
50A	10	134	83
50A	12.5	131	126
Peso Total	60B =		55 kgf
Peso Total	50A =		208 kgf

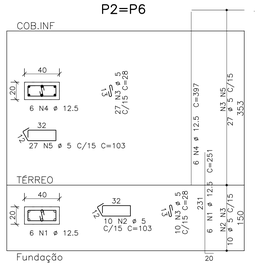
PAVIMENTO: COB.INF			
RESUMO DE AÇO			
AÇO	BIT	COMPR	PESO
	mm	m	kgf
60B	5	725	112
50A	10	129	79
50A	12.5	242	233
Peso Total	60B =		112 kgf
Peso Total	50A =		312 kgf

RESUMO DE AÇO			
AÇO	BIT	COMPR	PESO
	mm	m	kgf
60B	5	1085	167
50A	8	326	129
50A	10	305	188
50A	12.5	373	359
Peso Total	60B =		167 kgf
Peso Total	50A =		676 kgf

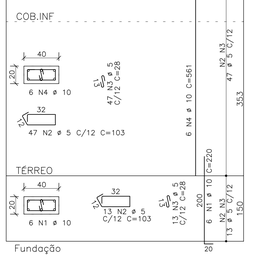
P1=P9



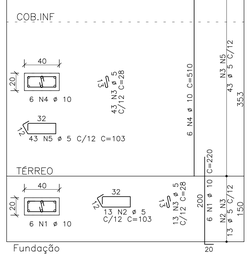
P2=P6



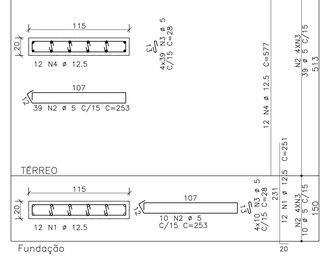
P4=P8



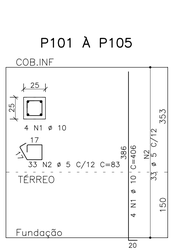
P3=P7



P5=P10



P101 À P105



NOTAS

- A PLANTA DE FORMAS DEVE SER APROVADA PELO ARQUITETO E RESPONSÁVEL TÉCNICO DA OBRA.
- AS COTAS PREVALECEM SOBRE O DESENHO, SÃO DADAS EM CENTÍMETRO, VERIFICAR MEDIDAS NO LOCAL.
- CLASSE DE AGRESSIVIDADE AMBIENTAL: CLASSE III
- RESISTÊNCIA CARACTERISTICA DO CONCRETO: fck = 30 MPa.
- RESISTÊNCIA CARACTERISTICA DO AÇO: CA-50 = 500 MPa / CA-60 = 600 MPa.
- DIÂMETRO MÁXIMO DO AGREGADO GRAÚDO <= 19 mm.
- RELAÇÃO ÁGUA X CIMENTO MÁXIMA: (a/c) <= 0.55
- CONSUMO MÍNIMO DE CIMENTO RECOMENDADO POR m3 DE CONCRETO >= 320 kg/m3.
- MÓDULO DE ELASTICIDADE TANGENTE INICIAL DO CONCRETO: Eci = 30672 MPa
- COBRIMENTO DAS ARMADURAS: VIGAS, PILARES E SAPATAS = 4,0 cm, LAJES = 3,0 cm.

REFERÊNCIAS

- PROJETO DE ARQUITETURA: PLANTA BAIXA DE TODOS OS PAVIMENTOS – LUIZA BRUNELLI COURA
- PROJETO DE ESTRUTURA: FORMAS DE TODOS OS PAVIMENTOS

REV.	DATA	DESCRIÇÃO
00	14/09/26	EMISSÃO INICIAL

REVISÕES

INSTITUTO FEDERAL
Espírito Santo

EMPREENDIMENTO:

IFES SERRA

GUARITA

LOCAL: AV. DOS SABIÁS, 330 - MORADA DE LARANJEIRAS, SERRA - ES

DISCIPLINA:

PROJETO ESTRUTURAL

PROJETO EXECUTIVO

PROPRIETÁRIO:

INSTITUTO FEDERAL DO ESPÍRITO SANTO
CNPJ.: 10.838.653/0001-06

AUTOR DO PROJETO:

DÉLIO ALVES QUADROS — **Nº REGISTRO** **CREA-ES 11663/D**
ENGENHEIRO CIVIL

COORDENAÇÃO:

LUIZA BRUNELLI COURA — **Nº REGISTRO** **CAU-BR A90530-5**
ARQUITETA E URBANISTA

TÍTULO: ARMAÇÕES DOS PILARES E SAPATAS

Nº DA PRANCHA: 03

ARQUIVO: DAQ0279-EST-03-ARM-FUND-R00

DESENHO: DAQ0279/26

DATA: 09/2026

REVISÃO: 00

EMPRESA:

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