

A1_est (1102 x 594 mm)

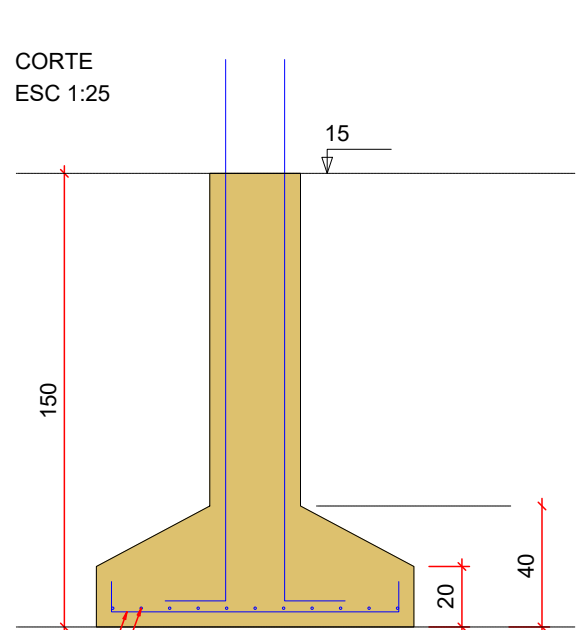
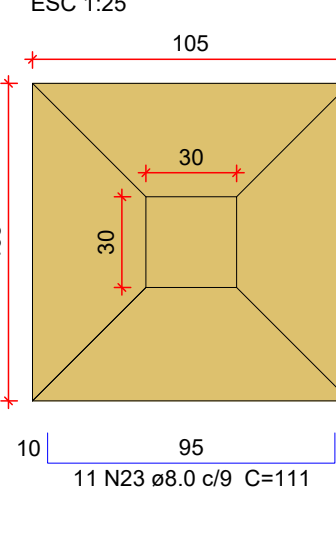
Relação do aço					
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	14	355	4970
	2	5.0	28	135	3780
	3	5.0	56	65	3640
	4	5.0	6	561	3366
	7	5.0	1255	95	119225
	8	5.0	569	65	36985
	9	5.0	48	135	6480
	10	5.0	20	91	1820
	11	5.0	26	83	2158
	12	5.0	108	79	8532
CA50	13	5.0	20	111	2220
	5	5.0	26	55	1430
	14	5.0	13	75	975
	15	5.0	13	105	1365
	16	5.0	13	36	468
	17	5.0	7	681	4767
	18	5.0	7	651	4557
	23	8.0	121	111	13431
	24	8.0	132	116	15312
	25	8.0	744	131	97464
	26	8.0	64	126	8064
	27	8.0	463	141	65103
	28	8.0	578	151	87278
	29	8.0	66	111	7326
	30	8.0	61	141	8601
	31	8.0	70	126	8820
	32	8.0	228	136	31008
	33	8.0	349	121	42229
	34	8.0	378	156	58968
	35	8.0	97	140	14162
	36	8.0	18	121	2178
	19	8.0	10	101	1010
	37	8.0	20	106	2120
	38	8.0	113	131	14803
	39	8.0	44	116	5104
	40	8.0	55	146	8030
	41	8.0	32	136	4352
	20	8.0	91	86	7826
	22	8.0	72	96	6912
	42	8.0	31	166	5146
	43	8.0	6	91	546
	44	10.0	32	150	4800
	45	10.0	20	215	4300
	46	10.0	32	123	3936
	47	10.0	20	188	3760
	49	10.0	216	193	41888
	50	10.0	112	175	19600
	51	10.0	100	145	14500
	52	10.0	44	140	6160
	53	10.0	24	95	2280
	54	10.0	20	140	2800
	55	10.0	216	170	36720
	56	10.0	24	135	3240
	57	10.0	32	150	4800
	58	10.0	192	165	31680
	59	10.0	48	143	6864
	60	10.0	12	155	1860
	61	10.0	4	158	632
	62	10.0	48	160	7680
	63	10.0	30	185	5550
	64	12.5	482	200	96400
	65	12.5	8	157	1256
	66	12.5	8	263	3682
	67	12.5	15	258	3870
	68	12.5	12	191	2292
	69	12.5	13	186	2418
	70	12.5	13	283	3679
	71	12.5	17	243	4131
	72	12.5	11	201	2211
	73	12.5	14	161	2254
	74	16.0	32	156	4992
	75	16.0	52	209	10868
	76	16.0	4	158	632

Resumo do aço			
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	5188	2251.8
	10.0	2028.5	1375.7
	12.5	1222	1294.8
	16.0	165	286.3
CA60	5.0	2065.4	350.2
PESO TOTAL (kg)			
CA50	5208.7		
CA60	350.2		

Volume de concreto (C-35) = 129,86 m³
Área de forma = 463,76 m²
Área de Tela Q-196 = 151,35 m²

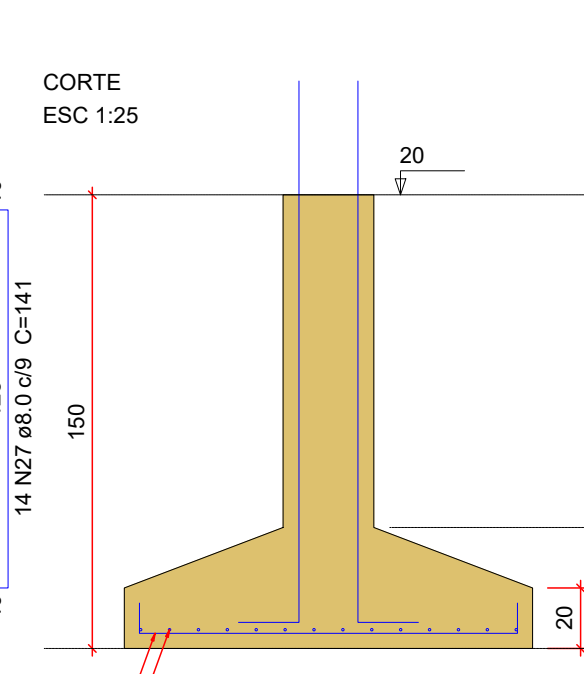
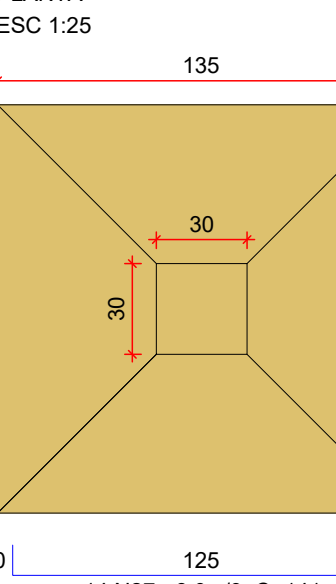
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S1=S33=S53=S167



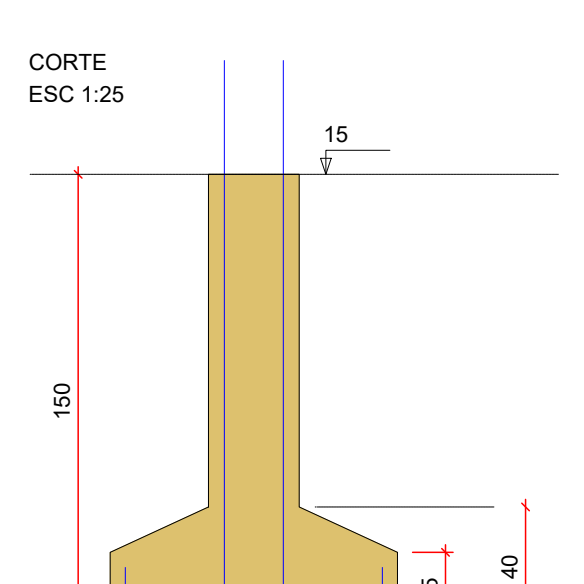
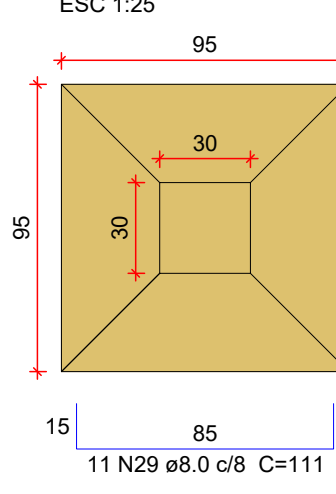
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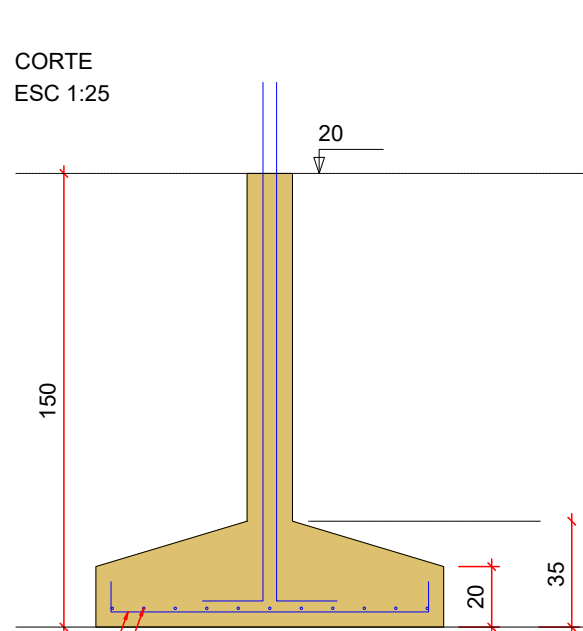
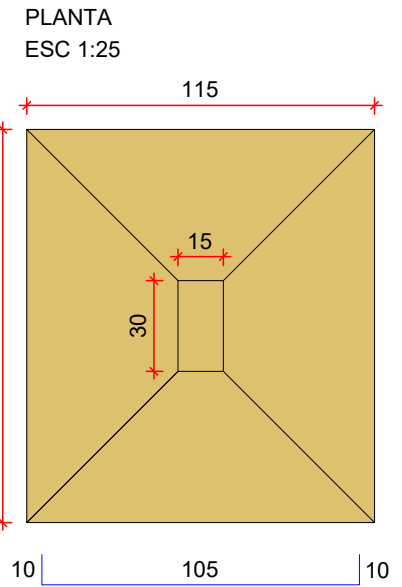
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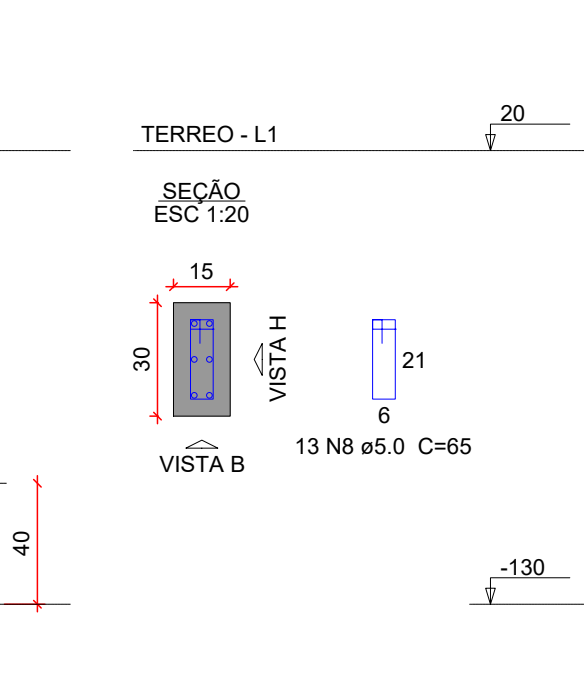
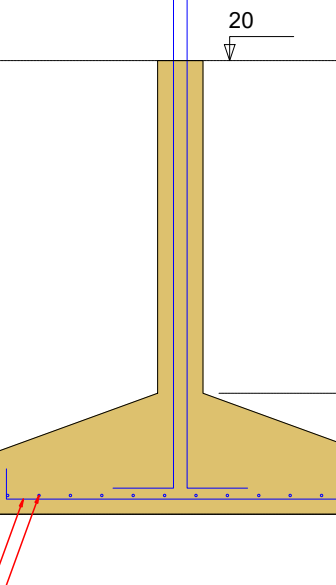
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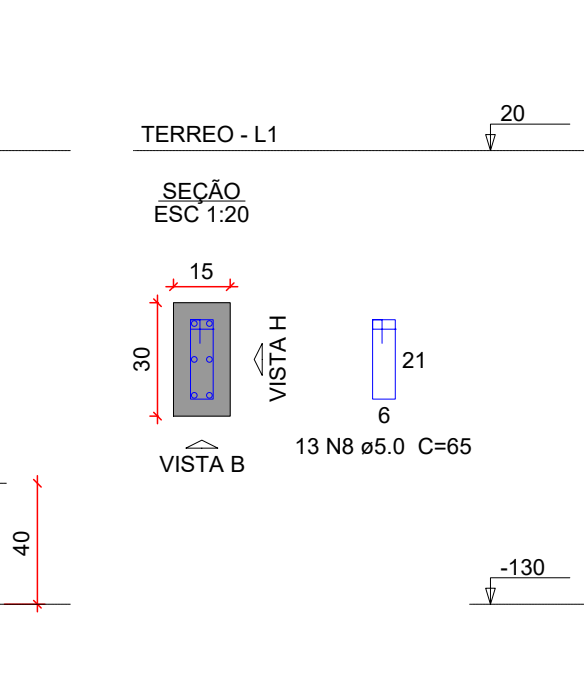
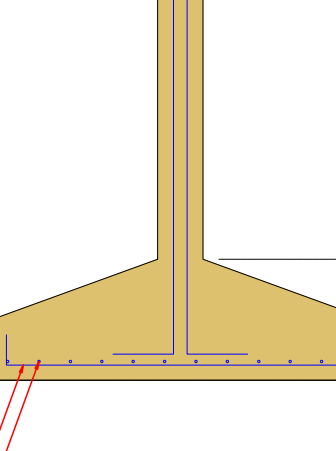
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S12



P13

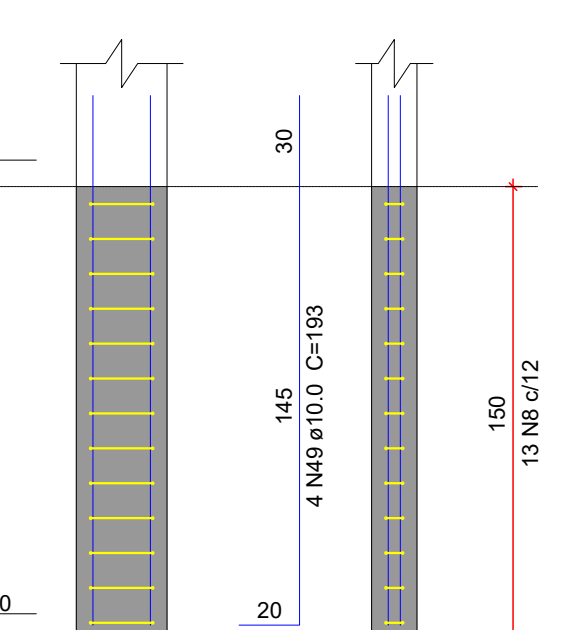
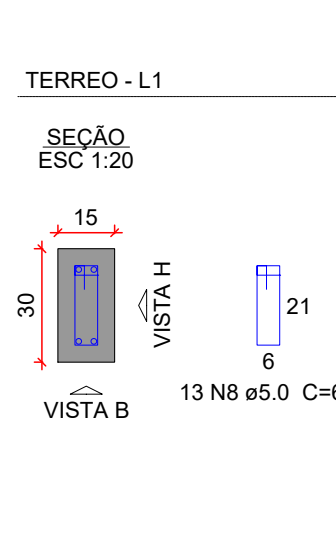
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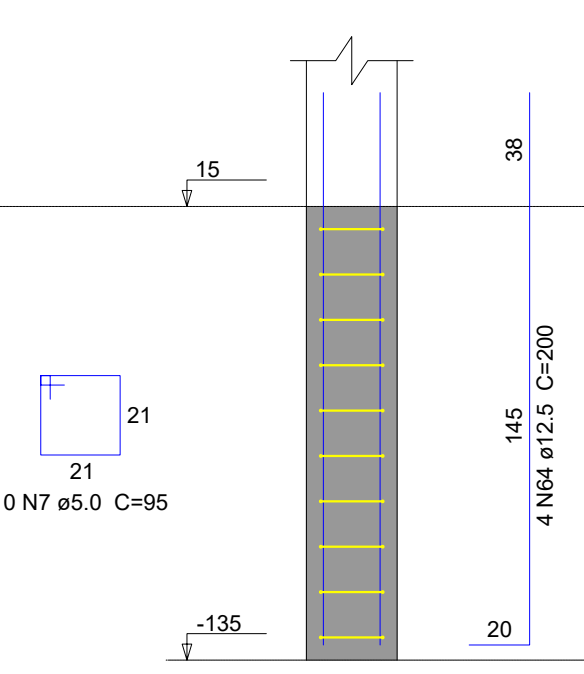
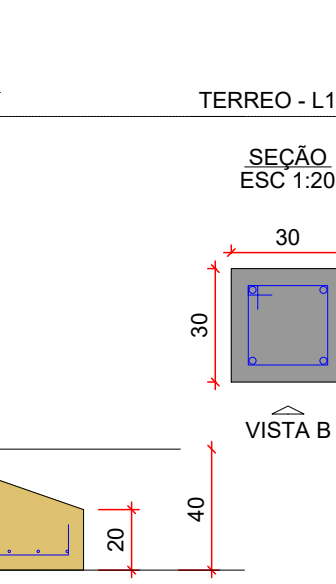
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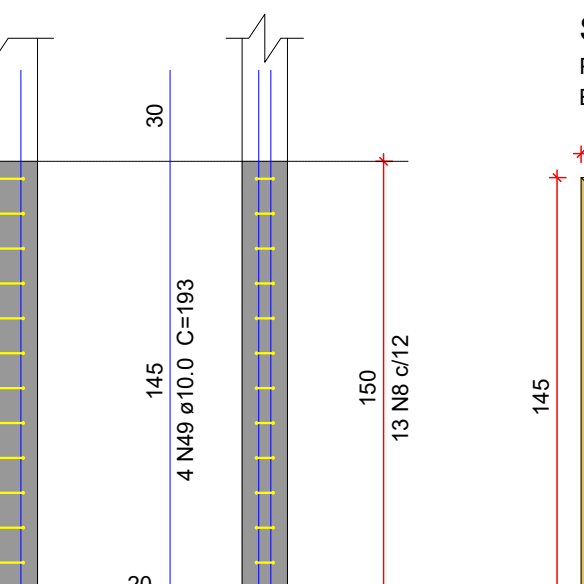
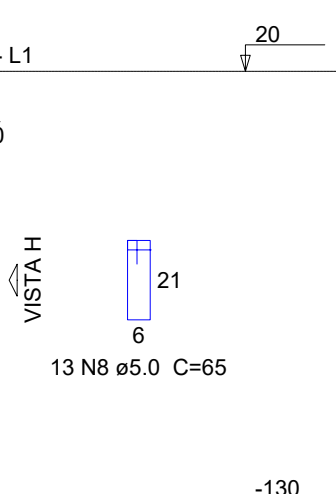
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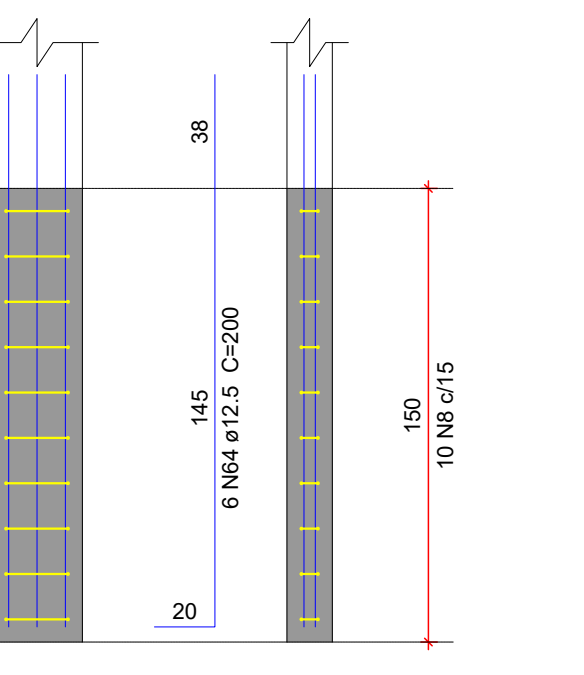
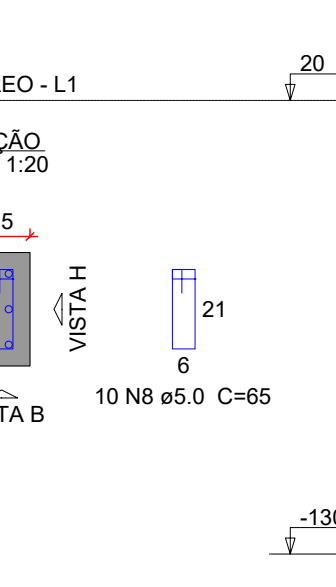
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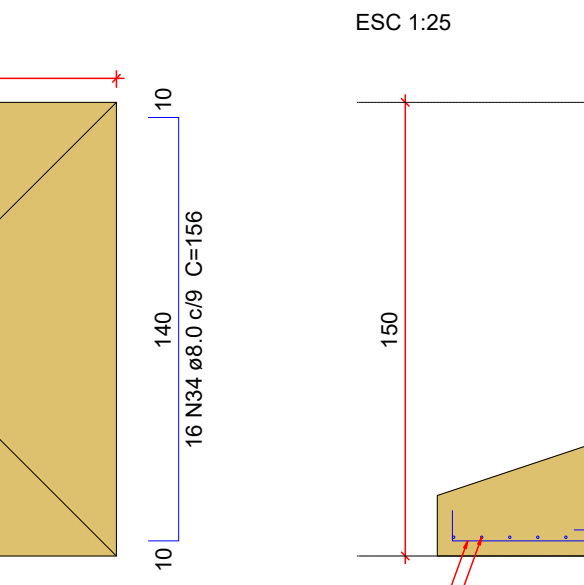
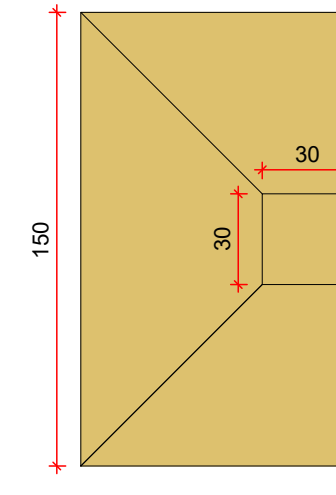
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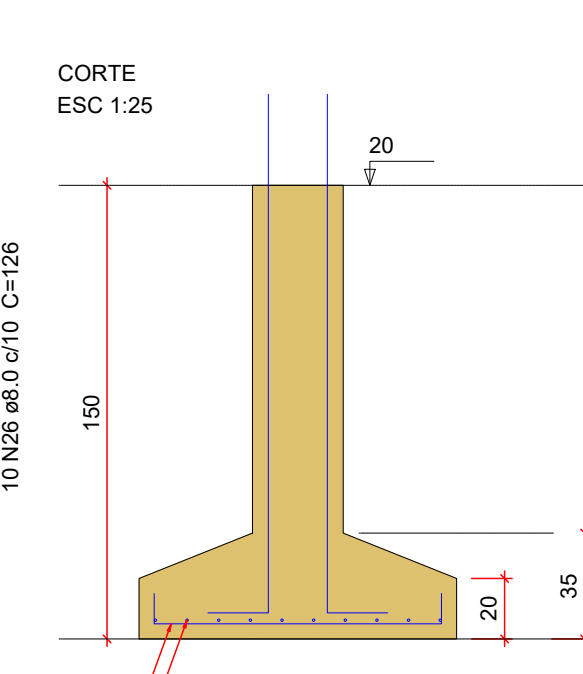
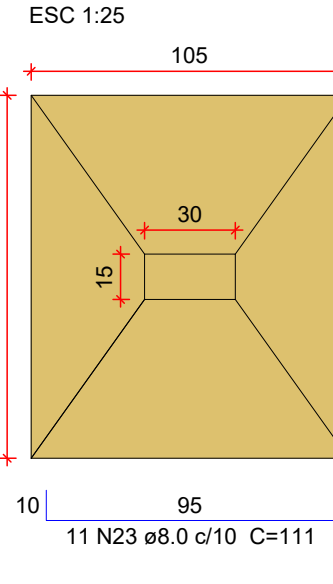
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S15



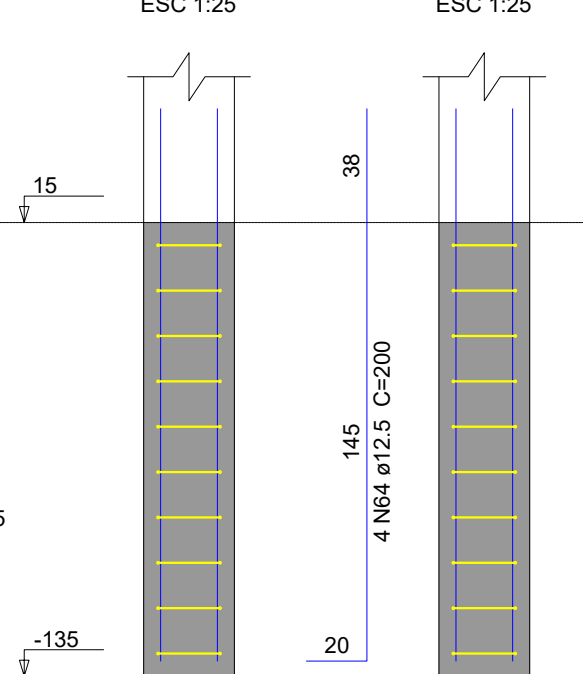
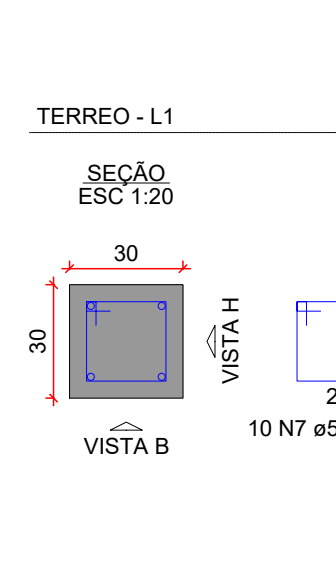
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S3



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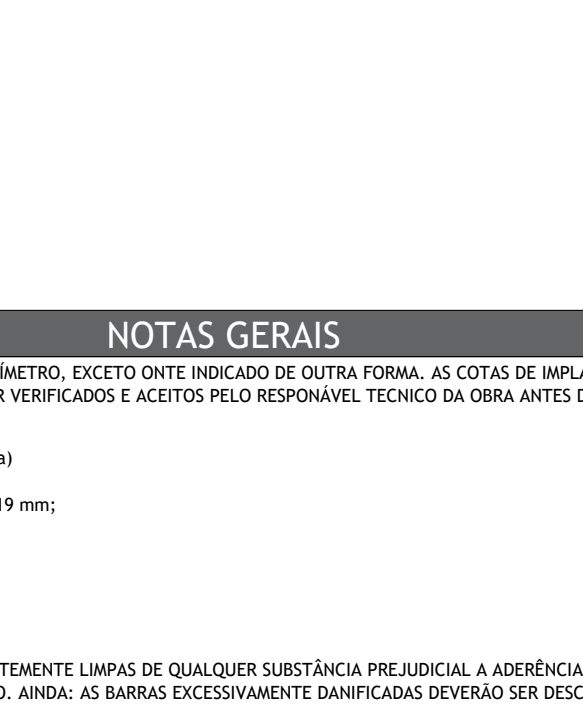
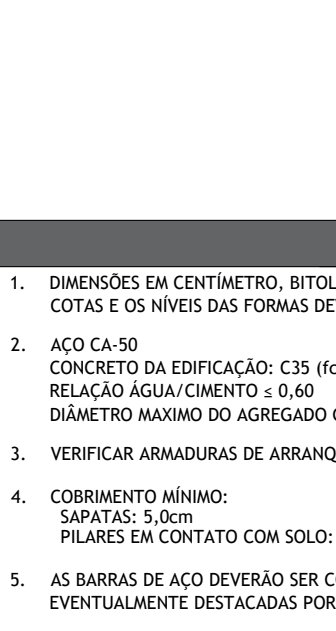
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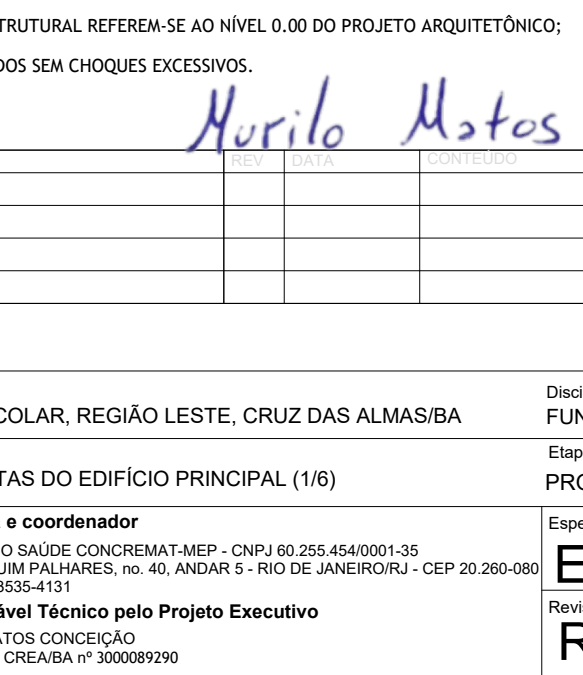
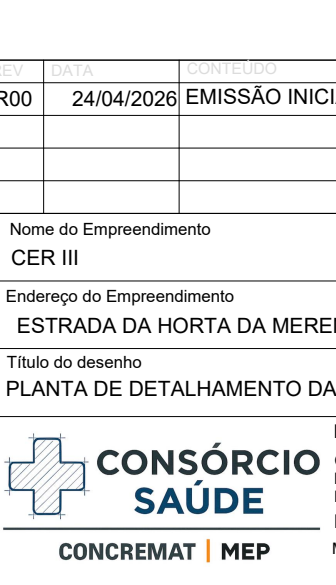
S7



S10



S12



NOTAS GERAIS

- DIMENSÕES EM CENTÍMETRO, BÍTOLAS EM MILÍMETRO, EXCETO ONTE INDICADO DE OUTRA FORMA. AS COTAS DE IMPLANTAÇÃO DA OBRA SERÃO COMO AS COTAS E OS NÍVEIS DAS FORMAS DEVERÃO SER VERIFICADOS E ACEITOS PELO RESPONSÁVEL TÉCNICO DA OBRA ANTES DA EXECUÇÃO;
- ACO CA-50 CONCRETO DA EDP/CAÇÃO: C35 (fck = 35 MPa) RELUÇÃO ÁGUA/CEMENTO: 0,60 DIÁMETRO MÁXIMO DO AGREGADO GRÁDUO: 19 mm;
- VERIFICAR ARMADURAS DE ARRANQUE
- COBERTAMENTO MÍNIMO: SAPATAS: 5,0cm PILARES EM CONTATO COM SOLO: 4,5cm
- AS BARRAS DE AÇO DEVERÃO SER CONVENIENTEMENTE LIMPAS DE QUALQUER SUBSTÂNCIA PREJUDICIAL À ADERÊNCIA, RETIRANDO-SE AS ESCAMAS EVENTUALMENTE DESTACADAS POR OXIDAÇÃO. ANDA: AS BARRAS EXCESSIVAMENTE DANIFICADAS DEVERÃO SER DESCARTADAS;
- JUNTAS DE CONCRETAGEM: QUANDO O LANÇAMENTO DO CONCRETO FOR INTERRUPTO E, ASSIM, FORMAR-SE UMA JUNTA DE CONCRETAGEM, DEVE-SE, ANTES DE INICIAR O LANÇAMENTO DO CONCRETO FRESCO, REMOVER A LATA E LIMPAR A SUPERFÍCIE DA JUNTA, DURANTE A CONCRETAGEM O CONCRETO DEVERÁ SER PERFEITAMENTE ADENSADO ATÉ A SUPERFÍCIE DA JUNTA;
- TODAS AS ESTRUTURAS EM CONTATO COM O SOLO DEVERÃO SER ISOLADAS COM UMA CAMADA DE CONCRETO MAGRO DE NO MÍNIMO 5 cm (TRAÇÃO USUAL 1:8) ENTRE O SOLO E A ESTRUTURA;
- O SOLO SOBRE AS SAPATAS DEVE SER COMPACTADO;
- TODOS OS NÍVEIS INDICADOS NO PROJETO ESTRUTURAL REFEREM-SE AO NÍVEL 0,00 DO PROJETO ARQUITETÔNICO;
- ESCORAMENTO E FORMAS DEVERÃO SER RETIRADOS SEM CHOQUES EXCESSIVOS.

Projeto e coordenador

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Responsável Técnico pelo Projeto Executivo

MARCELO MATEUS CONCEIÇÃO

Engenheiro CREA/RJ nº 300089290

EST

R00

02/10

INDICADA