V16
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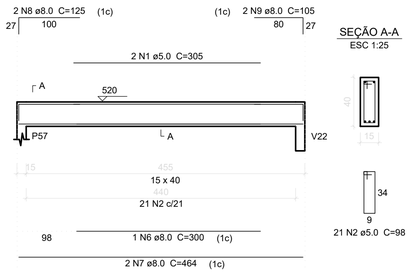
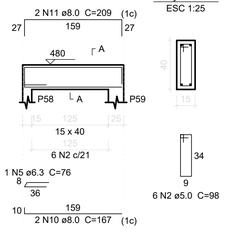


V17
ESC 1:50



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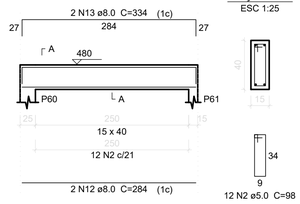
ESC 1:50



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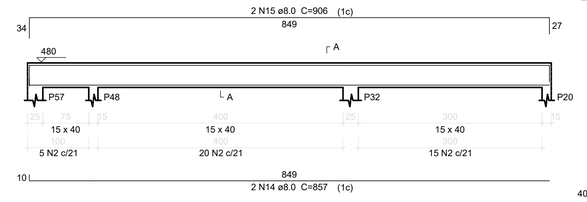
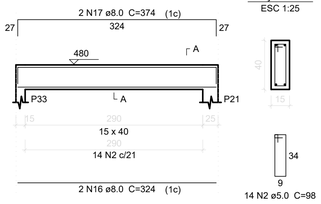
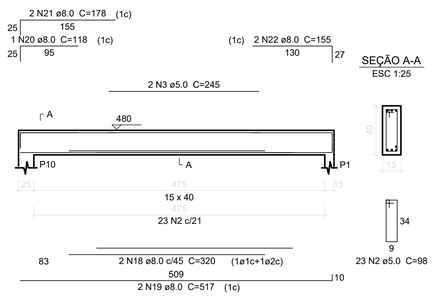
ESC 1:50



V20
ESC 1:50



V21
ESC 1:50



V22
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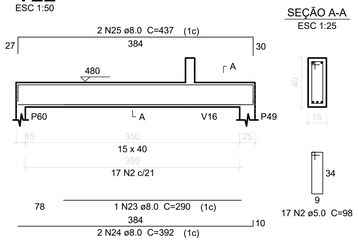

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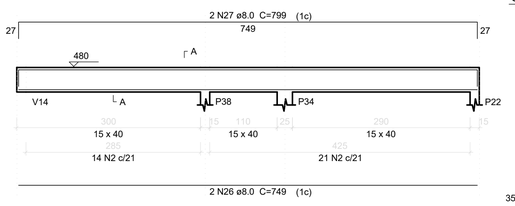
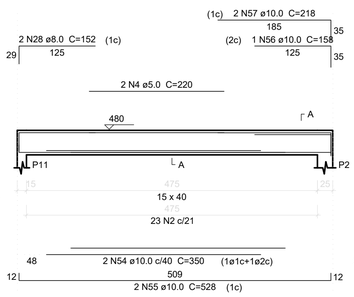
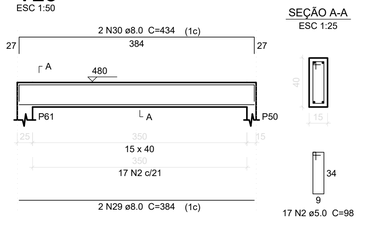


V24
ESC 1:50



V25
ESC 1:50



V26
ESC 1:50

V27
ESC 1:50

V28
ESC 1:50

V29
ESC 1:50

V30
ESC 1:50

V31
ESC 1:50

V32
ESC 1:50

V33
ESC 1:50

V34
ESC 1:50

V35
ESC 1:50

V36
ESC 1:50

V37
ESC 1:50

Relação do aço

V16	V17	V18
V19	V20	V21
V22	V23	V24
V25	V26	V27
V28	V29	V30
V31	V32	V33
V34	V35	V36
V37		

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	2	305	610
	2	5.0	525	98	51450
	3	5.0	2	245	490
	4	5.0	4	220	880
CA50	5	6.3	3	76	228
	6	8.0	2	300	600
	7	8.0	2	464	928
	8	8.0	2	125	250
	9	8.0	2	105	210
	10	8.0	2	167	334
	11	8.0	2	209	418
	12	8.0	2	284	568
	13	8.0	2	334	668
	14	8.0	2	857	1714
	15	8.0	2	906	1812
	16	8.0	4	324	1296
	17	8.0	4	374	1496
	18	8.0	2	320	640
	19	8.0	2	517	1034
	20	8.0	1	118	118
	21	8.0	2	178	356
	22	8.0	2	155	310
	23	8.0	3	290	870
	24	8.0	2	392	784
	25	8.0	2	437	874
	26	8.0	2	749	1498
	27	8.0	8	799	6392
	28	8.0	2	152	304
	29	8.0	2	384	768
	30	8.0	2	434	868
	31	8.0	6	757	4542
	32	8.0	2	153	306
	33	8.0	2	174	348
	34	8.0	2	224	448
	35	8.0	3	512	1536
	36	8.0	1	515	515
	37	8.0	2	690	1380
	38	8.0	3	260	780
	39	8.0	1	392	392
	40	8.0	2	731	1462
	41	8.0	2	317	634
	42	8.0	2	359	718
	43	8.0	2	449	898
	44	8.0	2	499	998
	45	8.0	1	280	280
	46	8.0	2	682	1364
	47	8.0	2	195	390
	48	8.0	2	734	1468
	49	8.0	2	1106	2212
	50	8.0	1	160	160
	51	8.0	1	165	165
	52	8.0	2	1156	2312
	53	8.0	2	554	1108
	54	10.0	2	350	700
	55	10.0	5	528	2640
	56	10.0	2	158	316
	57	10.0	4	218	872
	58	10.0	1	305	305

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	2.3	0.6
	8.0	495.3	215
	10.0	48.4	32.8
CA60	5.0	534.3	90.6

PESO TOTAL (kg)	
CA50	248.4
CA60	90.6

Volume de concreto (C-25) = 7.03 m³
Área de forma = 111.31 m²

gov.br Documento assinado digitalmente
CRISTIANO CASARINO
Data: 27/01/2026 15:13:12-0300
Verifique em https://validar.iti.gov.br

gov.br Documento assinado digitalmente
KESLLEY ANTONIO DE ALMEIDA DORNELAS
Data: 26/01/2026 15:48:10-0300
Verifique em https://validar.iti.gov.br

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Rodovia 354 km 556
Campo Belo - MG
Tel.: (35)3831-8750
E-mail: seop.engenharia@gmail.com
site: www.campobelo.mg.gov.br

OBRA: CANIL E PRONTO ATENDIMENTO VETERINÁRIO MUNICIPAL		FOLHA: 08/11
GESTOR: –	GIGOV: –	
PROGRAMA: –	Nº OPERAÇÃO: –	Nº SICONV: –
ENDEREÇO: ESTRADA MUNICIPAL DARUICHE ELIAS LASMAR		
PROPRIETÁRIO: PREFEITURA MUNICIPAL DE CAMPO BELO — Secretário Municipal de Infraestrutura – Cristiano Casarino		CNPJ: 18.659.334/0001-37
AUTOR DO PROJETO: KESLLEY ANTONIO DE ALMEIDA DORNELAS — Engenheiro Civil		CREA – MG: 321241/D-MG
DESENHO: KESLLEY ANTONIO DE ALMEIDA DORNELAS		

CONTEÚDO	REVISÃO	ESCALA	UNIDADE	DATA
ESTRUTURAL – VIGAS	0	INDICADA	METROS	AGO / 2025