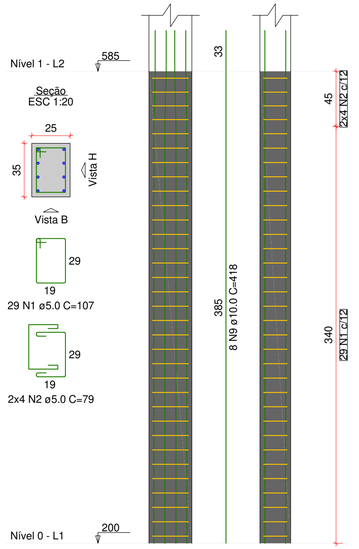
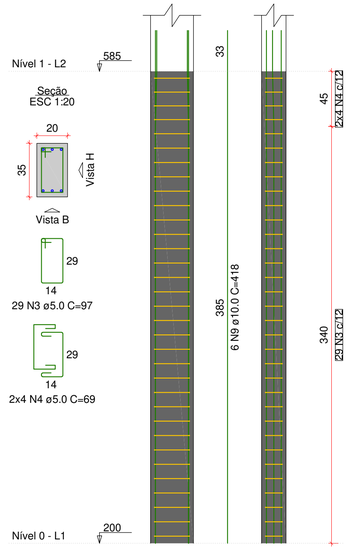
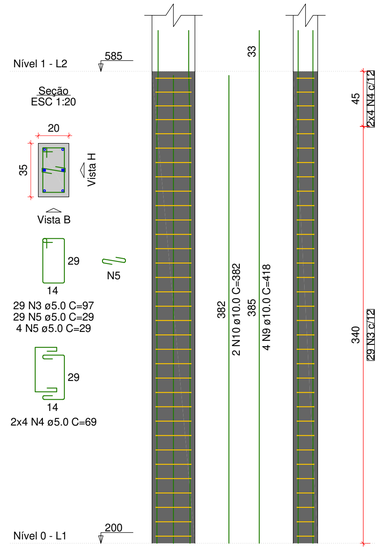
P1



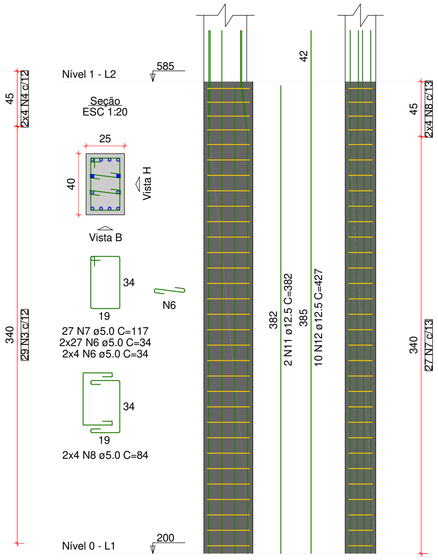
P2



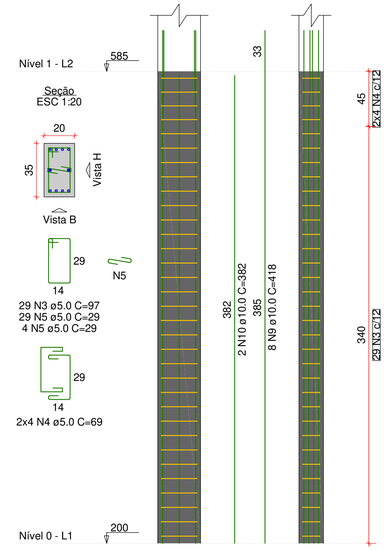
P3



P4



P5



RELAÇÃO DO AÇO

P1
P4
P2
P5
P3

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	29	107	3103
	2	5.0	8	79	632
	3	5.0	87	97	8439
	4	5.0	24	69	1656
	5	5.0	66	29	1914
	6	5.0	62	34	2108
	7	5.0	27	117	3159
	8	5.0	8	84	672
CA50	9	10.0	26	418	10868
	10	10.0	4	382	1528
	11	12.5	2	382	764
	12	12.5	10	427	4270

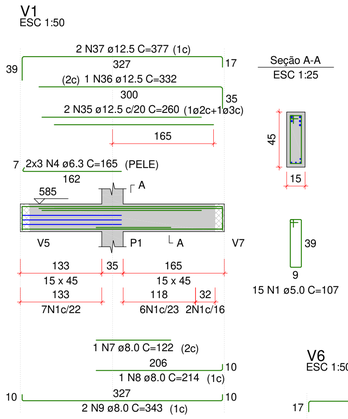
RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 0% (kg)
CA50	10.0	124	76.4
	12.5	50.3	48.5
CA60	5.0	216.8	33.4

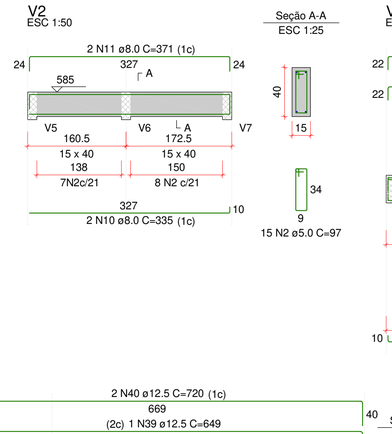
PESO TOTAL (kg)	
CA50	124.9
CA60	33.4

Volume de concreto (C-30) = 1.53 m³
Área de forma = 22.33 m²

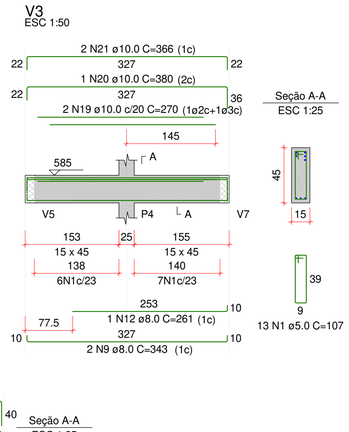
V1



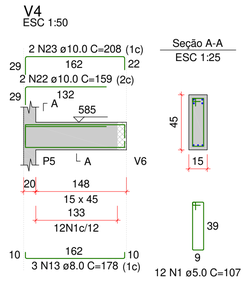
V2



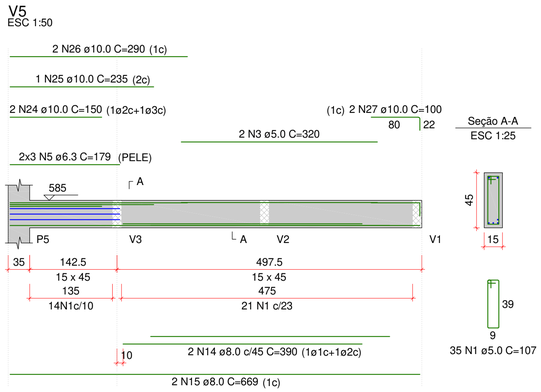
V3



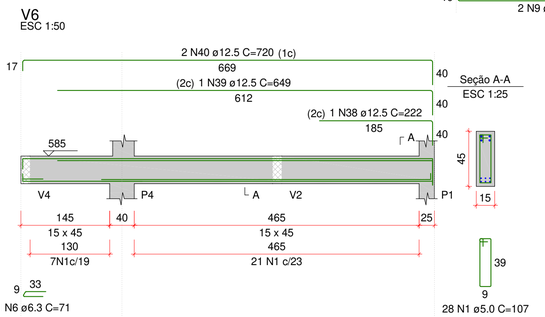
V4



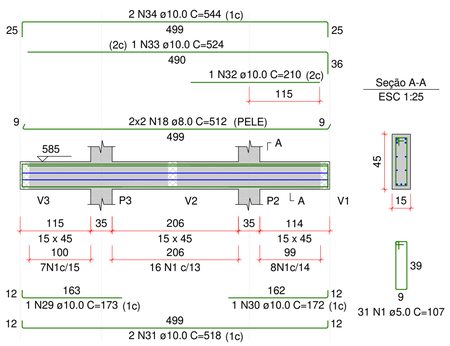
V5



V6



V7



RELAÇÃO DO AÇO

V1 V5 V2 V6 V3 V7 V4

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	134	107	14338
	2	5.0	15	97	1455
	3	5.0	2	320	640
CA50	4	6.3	6	165	990
	5	6.3	6	179	1074
	6	6.3	1	71	71
	7	8.0	1	122	122
	8	8.0	1	214	214
	9	8.0	4	343	1372
	10	8.0	2	335	670
	11	8.0	2	371	742
	12	8.0	1	261	261
	13	8.0	3	178	534
	14	8.0	2	390	780
	15	8.0	2	669	1338
	16	8.0	3	545	1635
	17	8.0	3	548	1644
	18	8.0	4	512	2048
	19	10.0	2	270	540
	20	10.0	1	380	380
	21	10.0	2	366	732
	22	10.0	2	159	318
	23	10.0	2	208	416
	24	10.0	2	150	300
	25	10.0	1	235	235
	26	10.0	2	290	580
	27	10.0	2	100	200
	28	10.0	2	205	410
	29	10.0	1	173	173
	30	10.0	1	172	172
	31	10.0	2	518	1036
	32	10.0	1	210	210
	33	10.0	1	524	524
	34	10.0	2	544	1088
	35	12.5	2	260	520
	36	12.5	1	332	332
	37	12.5	2	377	754
	38	12.5	1	222	222
	39	12.5	1	649	649
	40	12.5	2	720	1440

RESUMO DO AÇO

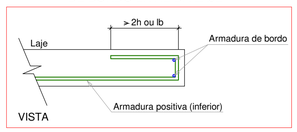
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 0% (kg)
CA50	6.3	21.4	5.2
	8.0	113.6	44.8
	10.0	73.1	45.1
	12.5	39.2	37.7
CA60	5.0	164.3	25.3

PESO TOTAL (kg)	
CA50	132.9
CA60	25.3

Volume de concreto (C-30) = 1.80 m³
Área de forma = 22.85 m²

Armaduras de distribuição	
Armadura	Armadura de distribuição
N3	2 N1 ø5.0 c/20 C=241
N3	2 N2 ø5.0 c/20 C=249

DETALHE DA ARMADURA DE BORDO LIVRE DA LAJE



RELAÇÃO DO AÇO

Negativos Positivos

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	2	241	482
	2	5.0	2	249	498
CA50	3	6.3	27	65	1755
	4	6.3	20	50	1000
	5	6.3	1	531	531
	6	6.3	4	27	108
	7	6.3	2	485	970

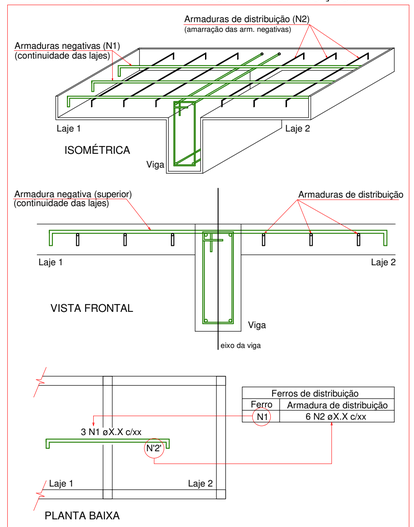
RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 0% (kg)
CA50	6.3	43.6	10.7
CA60	5.0	9.8	1.5

PESO TOTAL (kg)	
CA50	10.7
CA60	1.5

Volume de concreto (C-30) = 0.74 m³
Área de forma = 1.38 m²

DETALHE DA ARMADURA SUPERIOR DE CONTINUIDADE DA LAJE E MONTAGEM DA ARMADURA DE DISTRIBUIÇÃO

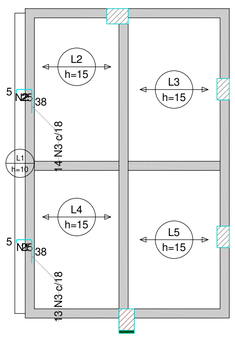


Ferros de distribuição	
Ferro	Armadura de distribuição
N1	6 N2 øX.X c/xx

NOTA: A ARMADURA DE DISTRIBUIÇÃO DAS CONTINUIDADES DEVE SER ININTERRUPTA E COM TRASPASSE (CASO HAJA EMENDAS).

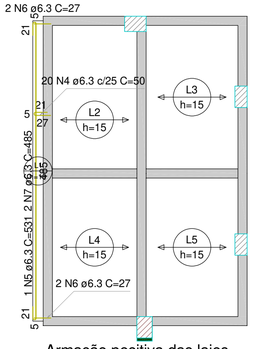
Armação negativa das lajes do pavimento Nível 1

Escala 1:50



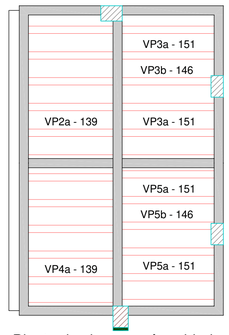
Armação positiva das lajes do pavimento Nível 1

Escala 1:50



Planta de vigotas pré-moldadas

Escala 1:50



Aprovações:

ammoc
Associação dos Municípios do Meio Oeste Catarinense
Rua Roberto Trompowski,68 - 2° andar / Tel: 49 3522-2800 - www.ammoc.org.br - e-mail: ammoc@ammoc.org.br - Joaçaba/SC

PREFEITURA MUNICIPAL DE CATANDUVAS

Obra:
PROJETO DE REFORMA E AMPLIAÇÃO
GINÁSIO MUNICIPAL DE ESPORTES YARA
CONCEIÇÃO NICOLETTI

Local da Obra:
RUA OLAVO BILAC, ESQ. COM A AVENIDA CORONEL RUPP, CENTRO CATANDUVAS / SANTA CATARINA

Conteúdo:
- DETALHAMENTO: PILAR, VIGA, LAJE (NÍVEL 1)

ESTRUTURAL

Responsável Técnico:
Ana Júlia U. de Carvalho - Eng. Civil - CREA-SC 105.295-8
André Brito Dotti - Eng. Civil - CREA-SC 162.237-5
André Felipe Kasteller - Eng. Civil - CREA-SC 201.019-5
Camila Zagonel - Eng. Civil - CREA-SC 112.963-0
Denir Narcizo Zulian - Eng. Civil - CREA-SC 50.805-8
Felipe L. Parisoto - Eng. Agrônomo - CREA-SC 183.059-9
Max Mooshammer - Eng. Civil - CREA-SC 139.164-0
Suellen Karine Cervelin - Eng. Civil - CREA-SC 166.933-0

EST 03/06

Quaisquer alterações consulte os responsáveis técnicos:

ANA JULIA UNGERICHT DE CARVALHO:06859574976 — Assinatura Responsável Técnico

Assinatura Prefeito(a) Municipal

Desenho:	Data:	Escala:	Área Total:
ANDRÉ DOTTI	FEVEREIRO / 2026	Indicada (s)	1.703,45 m²