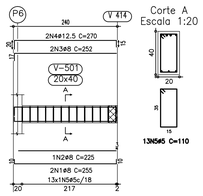
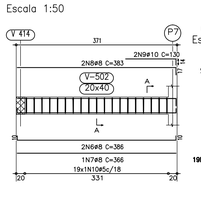
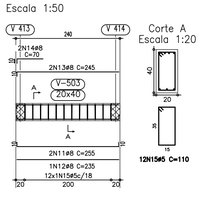
V 401
Escala 1:50



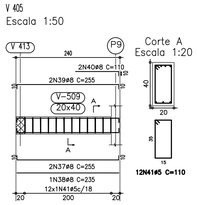
V 402
Escala 1:50



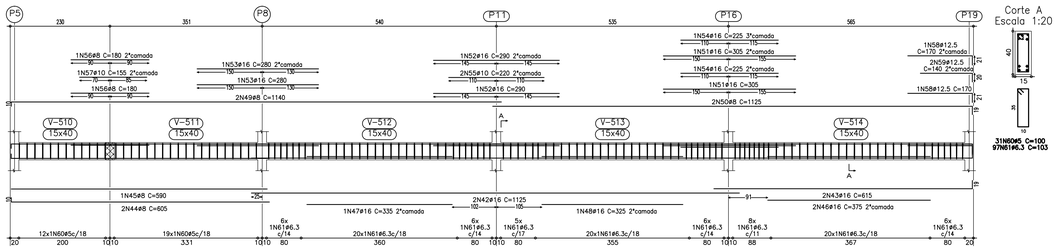
V 403
Escala 1:50



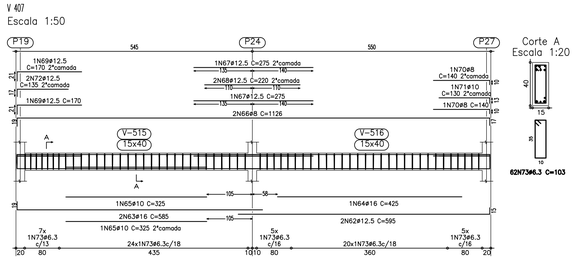
V 405
Escala 1:50



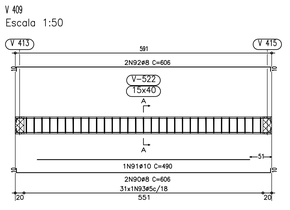
V 406
Escala 1:50



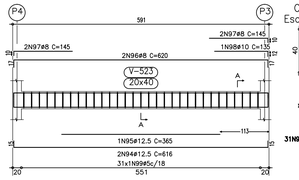
V 407
Escala 1:50



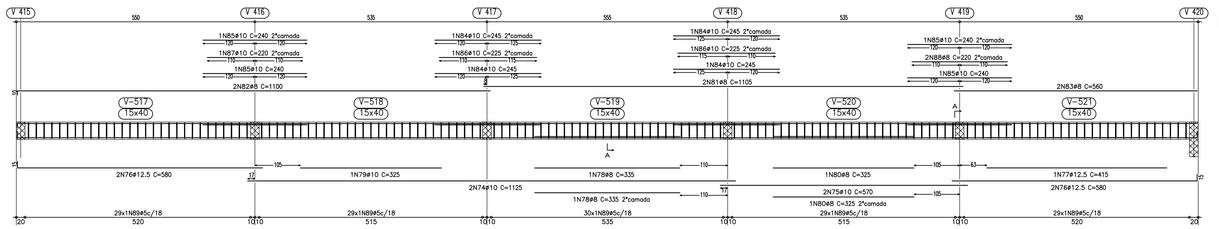
V 409
Escala 1:50



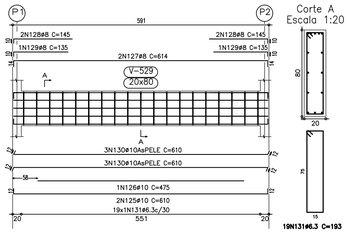
V 410
Escala 1:50



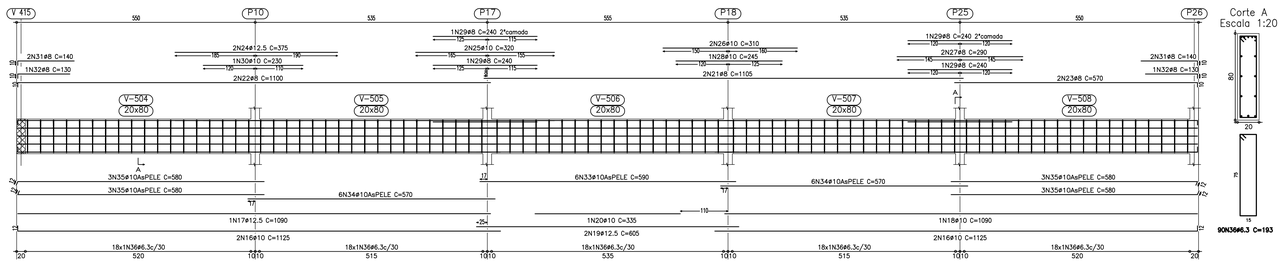
V 408
Escala 1:50



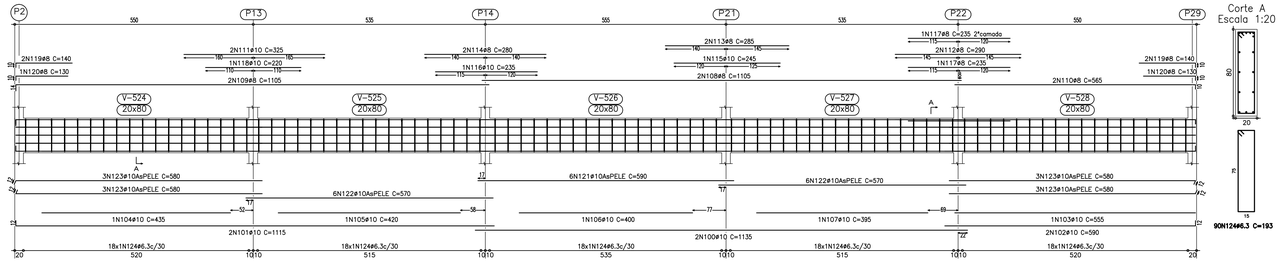
V 412
Escala 1:50

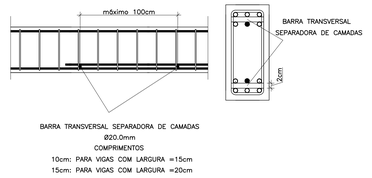


V 404
Escala 1:50



V 411
Escala 1:50





DETALHE TÍPICO DA FIXAÇÃO DAS BARRAS FLUTUANTES DE 2° CAMADA

VIGAS COM CASO DE BARRAS FLUTUANTES:

V406, V407, V408

Resumo Aço FIXAÇÃO DAS ARMADURAS DE 2° CAMADA	Comp. total (m)	Peso+10% (kg)	Total
CA-50-A ø20	5.10	13.9	13.9
Total			13.9

4° PAVTO
Desenho de vigas
Concreto: C25, em geral
Aço: CA-50-A e CA-60-B
Escala vigas: 1:50
Escala seções: 1:20

Resumo Aço 4° PAVTO Vigas	Comp. total (m)	Peso+10% (kg)	Total
CA-50-A ø6.3	627.9	171	
ø8	952.0	411	
ø10	941.6	650	
ø12.5	285.6	308	
ø16	152.7	264	
ø20	34.0	92	1896
CA-60-B ø5	514.9	89	89
Total			1985

Elemento	Pos.	Diam.	Q	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (kg)	CA-50-A (kg)	CA-60-B (kg)
V 401	1	ø8	2	10	235	10	255	510	2.0	
	2	ø8	2		225		225	225	0.9	
	3	ø8	2	17	235		252	504	2.0	
	4	ø12.5	2	20	235	15	270	540	5.3	
	5	ø5	13				110	1430		2.2
								Total+10%	11.2	2.4
V 402	6	ø8	2	10	366	10	386	772	3.0	
	7	ø8	1		366		366	366	1.4	
	8	ø8	2		366	17	383	766	3.0	
	9	ø10	2		116	14	130	260	1.6	
	10	ø5	19				110	2090		3.3
								Total+10%	9.9	3.6
V 403	11	ø8	2	10	235	10	255	510	2.0	
	12	ø8	1		235		235	235	0.9	
	13	ø8	2	10	235		245	490	1.9	
	14	ø8	2	10	60		70	140	0.5	
	15	ø5	12				110	1320		2.1
								Total+10%	5.8	2.3
V 404	16	ø10	4	12	1113		1125	4500	28.3	
	17	ø12.5	1		1090		1090	1090	10.7	
	18	ø10	1		1090		1090	1090	6.8	
	19	ø12.5	2		605		605	1210	11.9	
	20	ø10	1		335		335	335	2.1	
	21	ø8	2		1105		1105	2210	8.7	
	22	ø8	2	10	1090		1100	2200	8.6	
	23	ø8	2		560	10	570	1140	4.5	
	24	ø12.5	2		375		375	750	7.4	
	25	ø10	2		320		320	640	4.0	
	26	ø10	2		310		310	620	3.9	
	27	ø8	2		290		290	580	2.3	
	28	ø10	1		245		245	245	1.5	
	29	ø8	4		240		240	960	3.8	
	30	ø10	1		230		230	230	1.4	
	31	ø8	4		130	10	140	560	2.2	
	32	ø8	2		120	10	130	260	1.0	
	33	ø10	6		590		590	3540	22.2	
	34	ø10	12		570		570	6840	43.0	
	35	ø10	12		568	12	580	6960	43.7	
	36	ø6.3	90				193	17370	43.0	
								Total+10%	287.1	
V 405	37	ø8	2	10	235	10	255	510	2.0	
	38	ø8	1		235		235	235	0.9	
	39	ø8	2	10	235	10	255	510	2.0	
	40	ø8	2		100	10	110	220	0.9	
	41	ø5	12				110	1320		2.1
								Total+10%	6.4	2.3
V 406	42	ø16	2		1125		1125	2250	35.3	
	43	ø16	2		596	19	615	1230	19.3	
	44	ø8	2	10	595		605	1210	4.7	
	45	ø8	1		590		590	590	2.3	
	46	ø16	2		375		375	750	11.8	
	47	ø16	1		335		335	335	5.3	
	48	ø16	2		325		325	325	5.1	
	49	ø8	2	10	1130		1140	2280	8.9	
	50	ø8	2		1106	19	1125	2250	8.8	
	51	ø16	2		305		305	610	9.6	
	52	ø16	2		290		290	580	9.1	
	53	ø16	2		280		280	560	8.8	
	54	ø16	2		225		225	450	7.1	
	55	ø10	2		220		220	440	2.8	
	56	ø8	2		180		180	360	1.4	
	57	ø10	1		155		155	155	1.0	
	58	ø12.5	2		149	21	170	340	3.3	
	59	ø12.5	2		120	20	140	280	2.7	
	60	ø5	31				100	3100		4.9
	61	ø6.3	97				103	9991	24.7	
								Total+10%	189.2	5.4
V 407	62	ø12.5	2		580	15	595	1190	11.7	
	63	ø16	2	19	566		585	1170	18.4	
	64	ø16	1		425		425	425	6.7	
	65	ø10	2		325		325	650	4.1	
	66	ø8	2	19	1090	17	1126	2252	8.8	
	67	ø12.5	2		275		275	550	5.4	
	68	ø12.5	2		220		220	440	4.3	
	69	ø12.5	2	21	149		170	340	3.3	
	70	ø8	2		130	10	140	280	1.1	
	71	ø10	1		117	13	130	130	0.8	
	72	ø12.5	2	17	118		135	270	2.6	
	73	ø6.3	61				103	6283	15.5	
								Total+10%	91.0	
V 408	74	ø10	2		1125		1125	2250	14.1	
	75	ø10	2		570		570	1140	7.2	
	76	ø12.5	4		565	15	580	2320	22.8	
	77	ø12.5	1		415		415	415	4.1	
	78	ø8	2		335		335	670	2.6	
	79	ø10	1		325		325	325	2.0	
	80	ø8	2		325		325	650	2.6	
	81	ø8	2		1105		1105	2210	8.7	
	82	ø8	2	10	1090		1100	2200	8.6	
	83	ø8	2		560		560	1120	4.4	
	84	ø10	4		245		245	980	6.2	
	85	ø10	4		240		240	960	6.0	
	86	ø10	2		225		225	450	2.8	
	87	ø10	1		220		220	220	1.4	
	88	ø8	2		220		220	440	1.7	
	89	ø5	146				100	14600		22.9
								Total+10%	104.7	25.2
V 409	90	ø8	2	10	586	10	606	1212	4.8	
	91	ø10	1		490		490	490	3.1	
	92	ø8	2	10	586	10	606	1212	4.8	
	93	ø5	31				100	3100		4.9
								Total+10%	14.0	5.4
V 410	94	ø12.5	2	15	586	15	616	1232	12.1	
	95	ø12.5	1		365		365	365	3.6	
	96	ø8	2	17	586	17	620	1240	4.9	
	97	ø8	4	10	135		145	580	2.3	
	98	ø10	1		123	12	135	135	0.8	
	99	ø5	31				110	3410		5.4
								Total+10%	26.1	5.9

Nota:

Planta de referência: Prancha 17/64

AVALIAÇÃO DA QUALIDADE DA ESTRUTURA

RECEBIMENTO PROVISÓRIO

ACEITAÇÃO DEFINITIVA
PRANCHA REVISADA

AVALIADOR/CREA:
BRUNO SILVEIRA MARTINS – 148751/D

RT DO PROJETO ORIGINAL:
KÊNIO ÁVILA FERNANDES

AVALIADOR
BRUNO SILVEIRA MARTINS – 148751/D

REVISÃO	DESCRIÇÃO	PROJ.	DATA
00	EMISSÃO INICIAL		15/09/17

REVISÕES

MINISTÉRIO PÚBLICO DO ESTADO DE MINAS GERAIS
SEDE DAS PROMOTORIAS DE JUSTIÇA DE PATOS DE MINAS

ENDEREÇO:
AVENIDA ANGRA DOS REIS, S/N – BAIRRO COPACABANA
PATOS DE MINAS – MG

ÁREA TERRENO: 10.293,06m²
ÁREA CONSTRUÍDA: 2.860,04m²

PROPRIETÁRIO:
PROCURADORIA GERAL DE JUSTIÇA DO ESTADO DE MINAS GERAIS

CNPJ: 20.971.057/0001-45

PROJETO DE ESTRUTURA DE CONCRETO ARMADO

EMPRESA:
PRIMEIRA ENGENHARIA LTDA

CNPJ: 14.920.928/0001-07

RESPONSÁVEIS TÉCNICOS:
KÊNIO ÁVILA FERNANDES

CREA: MG-70.918/D

CONTEÚDO:
DETALHAMENTO DE VIGAS – 4° PAVIMENTO

DATA: 15/09/17
ESCALA: INDICADA
FOLHA: 51/64