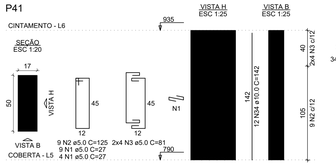
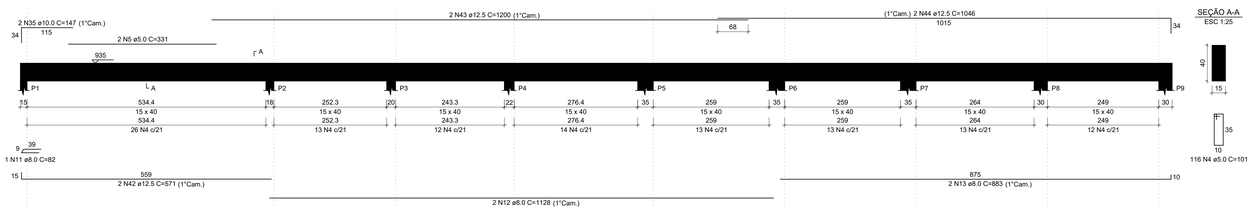
P41



V1 (15 x 40)

ESC 1:50



SEÇÃO A-A
ESC 1:25

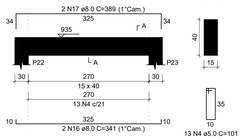
RELAÇÃO DO AÇO

P41	V1	V2	
V3	V4	V5	
V6	V7	V8	
V9	V10	V11	
V12			

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	13	27	351
	2	5.0	9	125	1125
	3	5.0	8	81	648
	4	5.0	425	101	42925
	5	5.0	2	331	662
	6	5.0	34	131	4454
	7	5.0	2	254	508
	8	5.0	2	315	630
	9	5.0	2	292	584
	10	5.0	2	339	678
CA50	11	8.0	2	82	164
	12	8.0	2	1128	2256
	13	8.0	2	883	1766
	14	8.0	2	391	782
	15	8.0	2	439	878
	16	8.0	2	341	682
	17	8.0	2	389	778
	18	8.0	2	575	1150
	19	8.0	2	623	1246
	20	8.0	2	302	604
	21	8.0	2	1152	2304
	22	8.0	2	908	1816
	23	8.0	2	335	670
	24	8.0	2	1135	2270
	25	8.0	2	200	400
	26	8.0	2	247	494
	27	8.0	2	295	590
	28	8.0	2	296	592
	29	8.0	2	344	688
	30	8.0	2	170	340
	31	8.0	2	218	436
	32	8.0	2	767	1534
	33	8.0	2	815	1630
	34	10.0	12	142	1704
	35	10.0	4	147	588
	36	10.0	2	849	1698
	37	10.0	2	157	314
	38	10.0	2	537	1074
	39	10.0	2	554	1108
	40	10.0	2	535	1070
	41	10.0	2	148	296
	42	12.5	2	571	1142
	43	12.5	2	1200	2400
	44	12.5	2	1046	2092
	45	12.5	2	565	1130
	46	12.5	2	1151	2302
	47	12.5	2	213	426
	48	12.5	2	594	1188
	49	12.5	2	176	352

V4 (15 x 40)

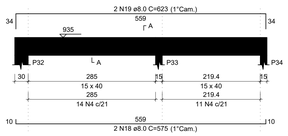
ESC 1:50



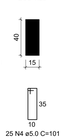
SEÇÃO A-A
ESC 1:25

V5 (15 x 40)

ESC 1:50

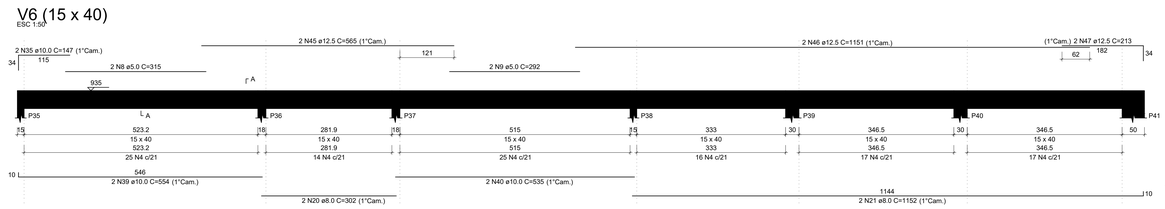


SEÇÃO A-A
ESC 1:25

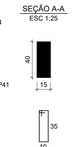


V6 (15 x 40)

ESC 1:50

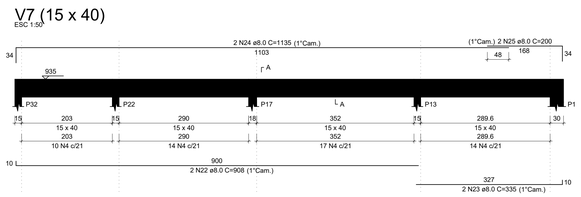


SEÇÃO A-A
ESC 1:25

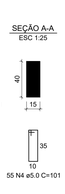


V7 (15 x 40)

ESC 1:50

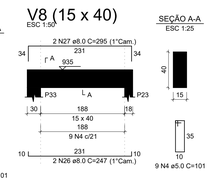


SEÇÃO A-A
ESC 1:25



V8 (15 x 40)

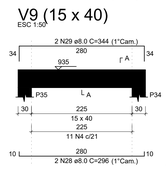
ESC 1:50



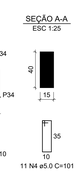
SEÇÃO A-A
ESC 1:25

V9 (15 x 40)

ESC 1:50

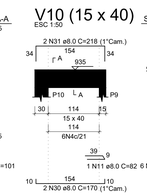


SEÇÃO A-A
ESC 1:25

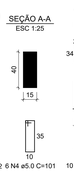


V10 (15 x 40)

ESC 1:50

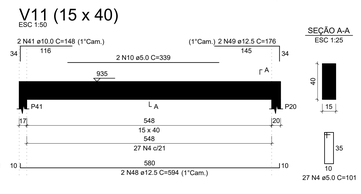


SEÇÃO A-A
ESC 1:25



V11 (15 x 40)

ESC 1:50



SEÇÃO A-A
ESC 1:25

RESUMO DO AÇO

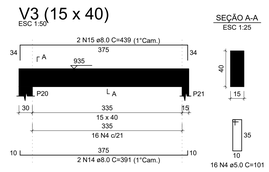
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	240.7	104.5
	10.0	78.5	53.3
	12.5	110.3	116.9
CA60	5.0	525.6	89.1

PESO TOTAL (kg)	
CA50	274.6
CA60	89.1

Volume de concreto (C-30) = 6.59 m³
Área de forma = 103.84 m²

V3 (15 x 40)

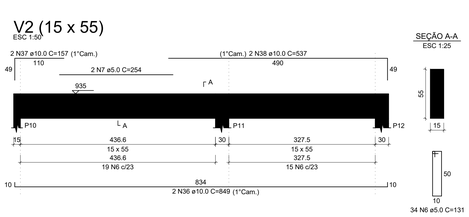
ESC 1:50



SEÇÃO A-A
ESC 1:25

V2 (15 x 55)

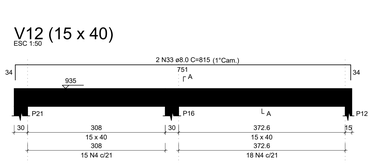
ESC 1:50



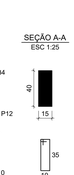
SEÇÃO A-A
ESC 1:25

V12 (15 x 40)

ESC 1:50



SEÇÃO A-A
ESC 1:25



CARIMBOS

PREFEITURA MUN. DE GIRAU DO PONCIANO
SEC. DE OBRAS E URBANISMO
SEOBRAS

ÁREAS:

ÁREA DO TERRENO: 2.030,00m²
ÁREA CONSTRUÍDA: 2.030,00m²

PROJETO:
Construção de uma Praça

ENDEREÇO:
Girau do Ponciano - AL

ETAPA:
ESTRUTURAL

Responsável Técnico:
Arquiteto e Urbanista: Taffarel Oliveira - CAU: 176614-7

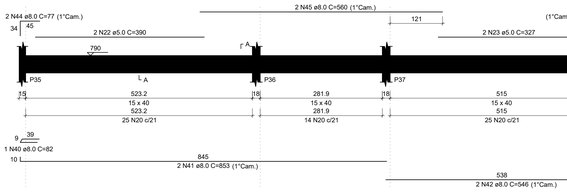
PROPRIETÁRIO:
Prefeitura Mun. de Girau do Ponciano - CNPJ: 12.207.536/0001-61

DATA:
Julho/2018

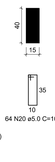
PRANCHA:
01/18

VIGAS DO PAV. CINTAMENTO

V12 (var)
ESC 1:50

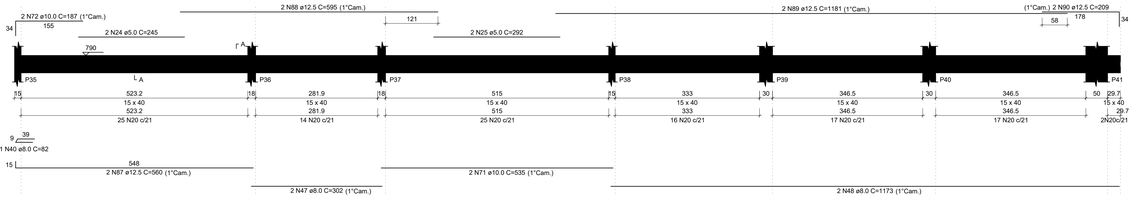


SEÇÃO A-A
ESC 1:25

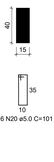


SEÇÃO B-B
ESC 1:25

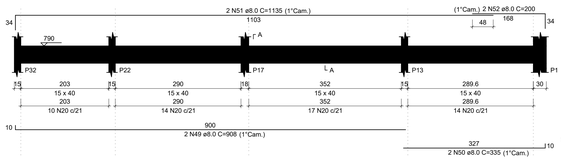
V13 (15 x 40)
ESC 1:50



SEÇÃO A-A
ESC 1:25

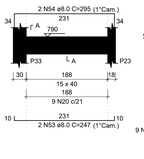


V14 (15 x 40)
ESC 1:50

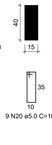


SEÇÃO A-A
ESC 1:25

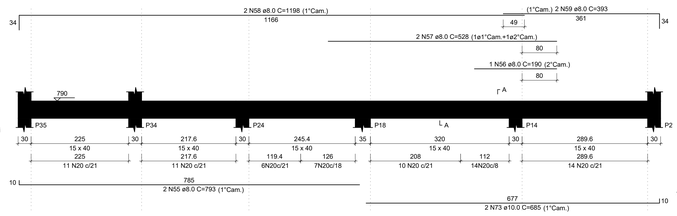
V15 (15 x 40)
ESC 1:50



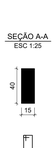
SEÇÃO A-A
ESC 1:25



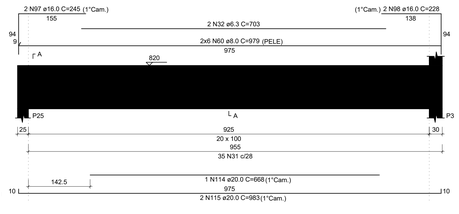
V16 (15 x 40)
ESC 1:50



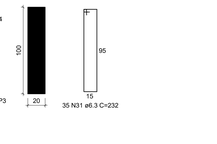
SEÇÃO A-A
ESC 1:25



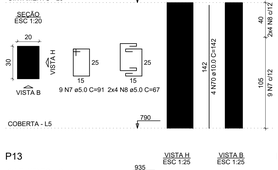
V17 (20 x 100)
ESC 1:50



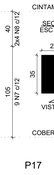
SEÇÃO A-A
ESC 1:25



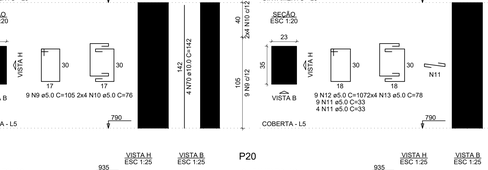
V18 (15 x 50)
ESC 1:50



SEÇÃO A-A
ESC 1:25

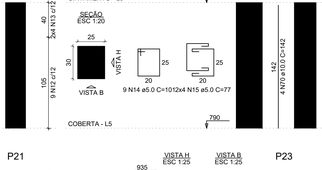


V19 (20 x 90)
ESC 1:50



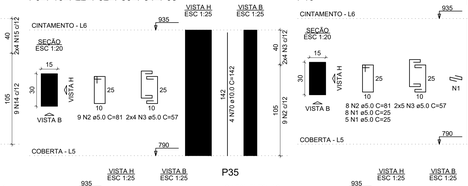
SEÇÃO A-A
ESC 1:25

V20 (15 x 50)
ESC 1:50

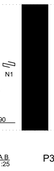


SEÇÃO A-A
ESC 1:25

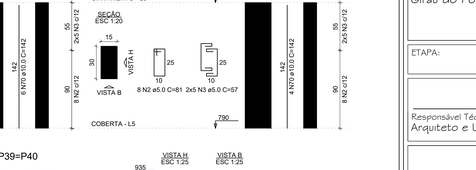
V21 (20 x 90)
ESC 1:50



SEÇÃO A-A
ESC 1:25



V22 (20 x 90)
ESC 1:50



SEÇÃO A-A
ESC 1:25

V23 (15 x 50)
ESC 1:50

SEÇÃO A-A
ESC 1:25

V24 (20 x 90)
ESC 1:50

SEÇÃO A-A
ESC 1:25

V25 (15 x 50)
ESC 1:50

SEÇÃO A-A
ESC 1:25

V26 (20 x 90)
ESC 1:50

SEÇÃO A-A
ESC 1:25

V27 (15 x 40)
ESC 1:50

SEÇÃO A-A
ESC 1:25

V28 (15 x 50)
ESC 1:50

SEÇÃO A-A
ESC 1:25

V29 (15 x 40)
ESC 1:50

SEÇÃO A-A
ESC 1:25

SUSPENSÃO V10
ESC 1:25

V30 (20 x 90)
ESC 1:50

SEÇÃO A-A
ESC 1:25

V31 (15 x 40)
ESC 1:50

SEÇÃO A-A
ESC 1:25

SUSPENSÃO V7
ESC 1:25

SUSPENSÃO V5
ESC 1:25

P1

P2=P36=P37

P12

P3

P4=P7

P5=P6

P8

P9=P16=P22=P32=P33=P34=P38

P10

P11

P13

P17

P20

P21

P23

P35

P39=P40

RELAÇÃO DO AÇO

P1-L6, 2xP4-L6, 7xP9-L6, P12-L6, P20-L6, P35-L6, V13-L5, V16-L5, V18-L5, V22-L5, V25-L5, V28-L5, V31-L5, 3xP2-L6, 2xP5-L6, P10-L6, P13-L6, P21-L6, 2xP39-L6, V14-L5, V17-L5, V20-L5, V23-L5, V26-L5, V29-L5, P3-L6, P8-L6, P11-L6, P17-L6, P23-L6, V12-L5, V15-L5, V18-L5, V21-L5, V24-L5, V27-L5, V30-L5

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	39	25	975
	2	5.0	112	81	9072
	3	5.0	106	57	6042
	4	5.0	39	28	1092
	5	5.0	43	87	3741
	6	5.0	38	63	2394
	7	5.0	18	91	1638
	8	5.0	16	67	1072
	9	5.0	18	105	1890
	10	5.0	16	76	1216
	11	5.0	26	33	858
	12	5.0	18	107	1926
	13	5.0	16	78	1248
	14	5.0	9	101	909
	15	5.0	8	77	616
	16	5.0	9	91	819
	17	5.0	8	62	496
	18	5.0	18	95	1710
	19	5.0	16	71	1136
	20	5.0	528	101	53328
	21	5.0	4	129	516
	22	5.0	2	390	780
	23	5.0	2	327	654
	24	5.0	2	245	490
	25	5.0	2	292	584
	26	5.0	117	121	14157
	27	5.0	2	255	510
	28	5.0	2	189	378
	29	5.0	2	329	658
	30	5.0	2	259	518
CA50	31	6.3	35	232	8120
	32	6.3	2	703	1406
	33	6.3	199	212	42188
	34	6.3	2	639	1278
	35	6.3	2	655	1310
	36	6.3	2	740	1480
	37	6.3	2	720	1440
	38	6.3	2	620	1240
	39	6.3	2	493	986
	40	8.0	3	82	246
	41	8.0	2	853	1706
	42	8.0	2	546	1092
	43	8.0	2	31	62
	44	8.0	2	77	154
	45	8.0	2	560	1120
	46	8.0	2	138	276
	47	8.0	2	502	1004
	48	8.0	2	1173	2346
	49	8.0	2	908	1816
	50	8.0	2	335	670
	51	8.0	2	1135	2270
	52	8.0	2	200	400
	53	8.0	2	247	494
	54	8.0	2	295	590
	55	8.0	2	793	1586
	56	8.0	1	190	190
	57	8.0	2	528	1056
	58	8.0	2	1198	2396
	59	8.0	2	393	786
	60	8.0	12	979	11748
	61	8.0	10	982	9820
	62	8.0	2	143	2860
	63	8.0	30	980	29400
	64	8.0	10	983	9830
	65	8.0	2	291	582
	66	8.0	2	320	640
	67	8.0	2	124	248
	68	8.0	10	769	7690
	69	8.0	6	137	822
	70	10.0	142	142	20164
	71	10.0	2	535	1070
	72	10.0	2	187	374
	73	10.0	2	685	1370
	74	10.0	2	313	626
	75	10.0	2	530	1060
	76	10.0	2	286	572
	77	10.0	2	175	350
	78	10.0	2	131	262
	79	10.0	2	345	690
	80	10.0	2	151	302
	81	10.0	2	122	244
	82	10.0	2	597	1194
	83	10.0	2	148	296
	84	10.0	1	123	123
	85	10.0	4	153	612
	86	12.5	12	142	1704
	87	12.5	2	560	1120
	88	12.5	2	595	1190
	89	12.5	2	1181	2362
	90	12.5	2	209	418
	91	12.5	2	534	1068
	92	12.5	2	186	372
	93	12.5	2	512	1024
	94	12.5	1	160	160
	95	12.5	2	1022	2044
	96	16.0	4	142	568
	97	16.0	2	245	490
	98	16.0	2	228	456
	99	16.0	3	224	672
	100	16.0	4	229	916
	101	16.0	2	230	460
	102	16.0	4	204	816
	103	16.0	4	204	816
	104	16.0	2	526	1052
	105	16.0	2	305	610
	106	16.0	2	225	450
	107	16.0	1	324	324
	108	16.0	2	1046	2092
	109	16.0	2	243	486
	110	16.0	2	200	400
	111	16.0	1	185	185
	112	16.0	2	773	1546
	113	16.0	2	812	1624
	114	20.0	1	668	668
	115	20.0	2	983	1966
	116	20.0	1	225	225
	117	20.0	2	310	620
	118	20.0	1	240	240
	119	20.0	2	335	670
	120	20.0	1	224	224
	121	20.0	2	289	578
	122	20.0	1	550	550
	123	20.0	1	725	725
	124	20.0	2	994	1988
	125	20.0	2	286	572
	126	20.0	2	796	1388
	127	25.0	1	624	624
	128	25.0	2	1006	2012
	129	25.0	1	630	630
	130	25.0	1	1018	6108
	131	25.0	1	655	655
	132	25.0	1	650	650

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	594.5	160
	8.0	935	405.8
	10.0	293.1	198.8
	12.5	114.6	121.5
	16.0	131.5	228.3
	20.0	114.1	309.6
	25.0	106.8	452.7
CA60	5.0	1114.2	188.9
PESO TOTAL (kg)			
CA50			3826.7
CA60			188.9

Volume de concreto (C-30) = 21.79 m³
Área de forma = 290, 70 m²

CARIMBOS

PREFEITURA MUN. DE GIRAU DO PONCIANO
SEC. DE OBRAS E URBANISMO
SEOBRAS

ÁREAS:
ÁREA DO TERRENO: 2.030,00m²
ÁREA CONSTRUÍDA: 2.030,00m²

PROJETO:
Construção de uma Praça

ENDEREÇO:
Giral do Ponciano - AL

ETAPA:
ESTRUTURAL

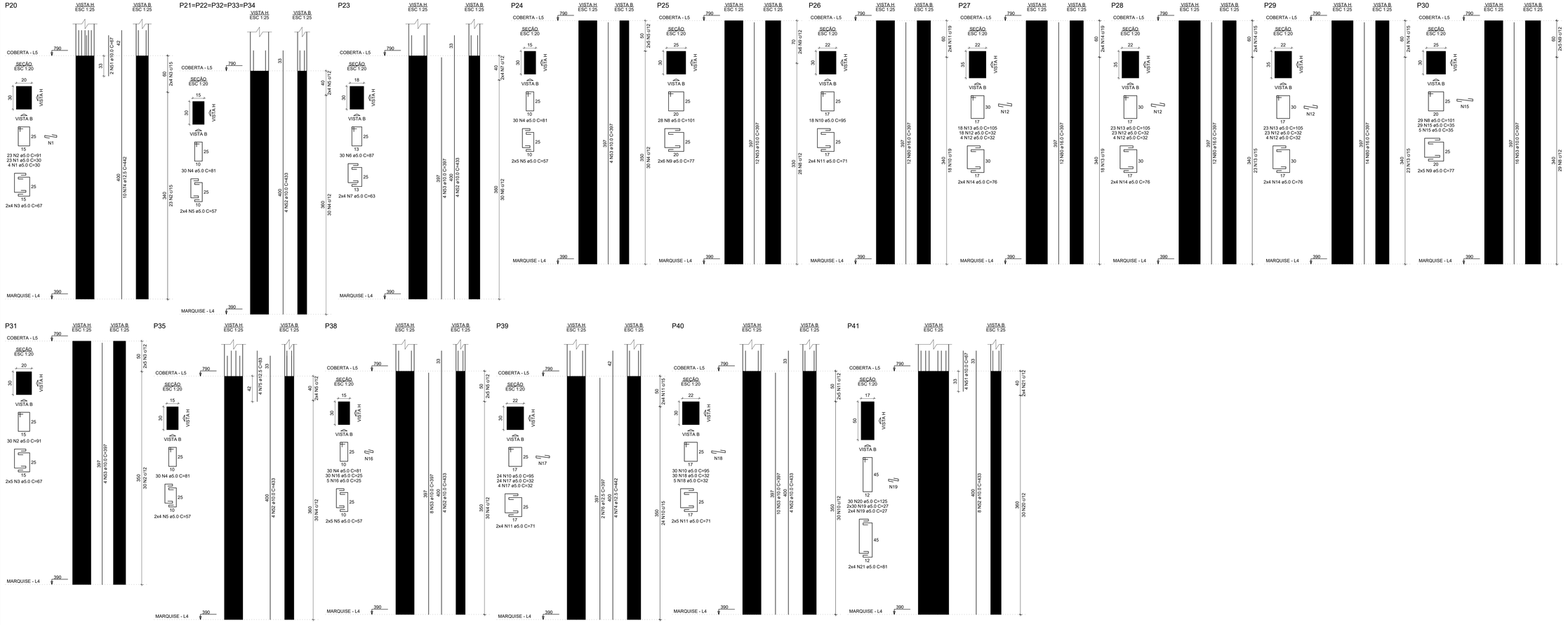
Responsável Técnico:
Arquiteto e Urbanista: Taffarel Oliveira - CAU: 176614-7

PROPRIETÁRIO:
Prefeitura Mun. de Giral do Ponciano - CNPJ: 12.207.536/0001-61

DATA:
Julho/2018

PRANCHA:
02/18

VIGAS DO PAV. COBERTA
E PRUMADA DOS PILARES



RELAÇÃO DO AÇO

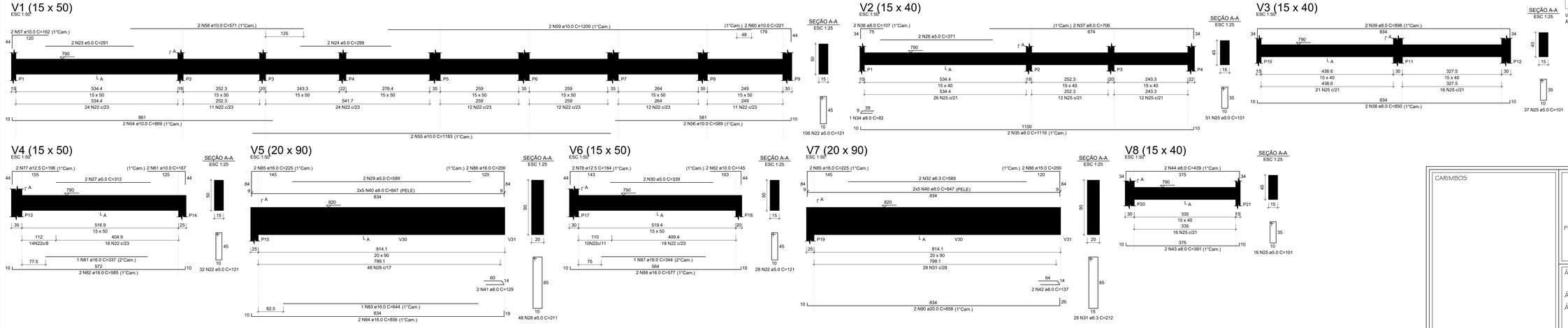
P20	5xP21	P23	
P24		P25	
P27		P28	
P30		P31	
P38		P39	
P41		V1	
V3		V4	
V6		V7	
V9		V10	
		P26	
		P29	
		P35	
		P40	
		V2	
		V5	
		V8	
		V11	

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	27	30	810
	2	5.0	53	91	4823
	3	5.0	18	67	1206
	4	5.0	240	81	19440
	5	5.0	68	57	3876
	6	5.0	30	87	2610
	7	5.0	8	63	504
	8	5.0	57	101	5757
	9	5.0	22	77	1694
	10	5.0	72	95	6840
	11	5.0	26	71	1846
	12	5.0	76	32	2432
	13	5.0	64	105	6720
	14	5.0	24	76	1824
	15	5.0	34	35	1190
	16	5.0	35	25	875
	17	5.0	28	32	896
	18	5.0	35	32	1120
	19	5.0	68	27	1836
	20	5.0	30	125	3750
	21	5.0	8	81	648
	22	5.0	278	121	33638
	23	5.0	2	291	582
	24	5.0	2	299	598
	25	5.0	147	101	14847
	26	5.0	2	371	742
	27	5.0	2	312	624
	28	5.0	48	211	10128
	29	5.0	2	589	1178
	30	5.0	2	339	678
	31	6.3	29	212	6148
	32	6.3	2	589	1178
	33	6.3	31	122	3782
	34	8.0	1	82	82
	35	8.0	2	1116	2232
	36	8.0	2	107	214
	37	8.0	2	706	1412
	38	8.0	2	850	1700
	39	8.0	2	898	1796
	40	8.0	20	847	16940
	41	8.0	2	129	258
	42	8.0	2	137	274
	43	8.0	2	391	782
	44	8.0	2	439	878
	45	8.0	4	324	1296
	46	8.0	4	482	1928
	47	8.0	1	124	124
	48	8.0	2	297	594
	49	8.0	2	575	1150
	50	8.0	2	623	1246
	51	10.0	1	67	402
	52	10.0	44	433	19052
	53	10.0	58	397	23026
	54	10.0	2	1198	2396
	55	10.0	2	1163	2326
	56	10.0	2	589	1178
	57	10.0	2	162	324
	58	10.0	2	571	1142
	59	10.0	2	1200	2400
	60	10.0	2	221	442
	61	10.0	2	167	334
	62	10.0	2	145	290
	63	10.0	2	340	680
	64	10.0	2	388	776
	65	10.0	2	1142	2284
	66	10.0	2	573	1146
	67	10.0	1	180	180
	68	10.0	1	474	474
	69	10.0	1	175	175
	70	10.0	2	245	490
	71	10.0	2	1198	2396
	72	10.0	2	1062	2124
	73	10.0	2	122	244
	74	12.5	14	442	6188
	75	12.5	4	83	332
	76	12.5	2	397	794
	77	12.5	2	196	392
	78	12.5	2	184	368
	79	12.5	2	284	568
	80	16.0	50	397	19850
	81	16.0	1	337	337
	82	16.0	2	585	1170
	83	16.0	1	644	644
	84	16.0	2	856	1712
	85	16.0	4	225	900
	86	16.0	4	200	800
	87	16.0	1	344	344
	88	16.0	2	577	1154
	89	16.0	2	488	976
	90	20.0	2	858	1716
CA50					

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	111.1	29.9
	8.0	329.1	142.8
	10.0	636.6	431.8
	12.5	86.4	91.5
	16.0	278.9	484.2
	20.0	17.2	46.6
CA60	5.0	1337.1	226.7
PESO TOTAL (kg)			
CA50	1226.8		
CA60	226.7		

Volume de concreto (C-30) = 14.40 m³
Área de forma = 216.52 m²



CARIMBOS

PREFEITURA MUN. DE GIRAU DO PONCIANO
SEC. DE OBRAS E URBANISMO
SEOBRAS

ÁREAS:

ÁREA DO TERRENO: 2.030,00m²
ÁREA CONSTRUÍDA: 2.030,00m²

PROJETO:
Construção de uma Praça

ENDEREÇO:
Girau do Ponciano - AL

ETAPA:
ESTRUTURAL

Responsável Técnico:
Arquiteto e Urbanista: Taffarel Oliveira - CAU: 176614-7

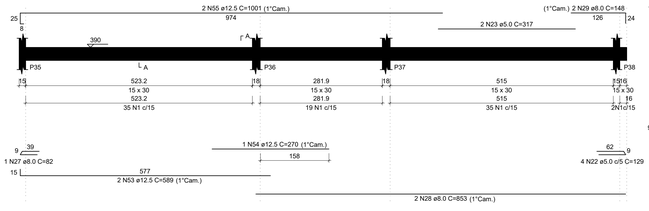
PROPRIETÁRIO:
Prefeitura Mun. de Girau do Ponciano - CNPJ: 12.207.536/0001-61

DATA: Julho/2018

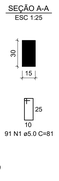
PRANCHA: 03/18

VIGAS DO PAV. COBERTA E PRUMADA DOS PILARES

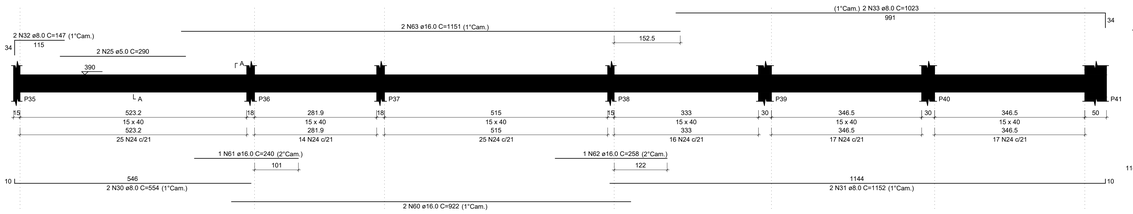
V7 (15 x 30)
ESC 1:50



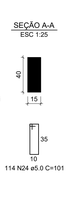
SEÇÃO A-A
ESC 1:25



V8 (15 x 40)
ESC 1:50



SEÇÃO A-A
ESC 1:25



V9 (15 x 40)
ESC 1:50

SEÇÃO A-A
ESC 1:25

RELAÇÃO DO AÇO

P1-L5	3xP2-L5	P3-L5
P4-L5	P5-L5	P6-L5
P7-L5	P8-L5	P9-L5
P10-L5	P11-L5	P12-L5
P13-L5	P14-L5	2xP15-L5
P16-L5	P17-L5	P18-L5
V7-L4	V8-L4	V9-L4
V10-L4	V11-L4	V12-L4
V13-L4		

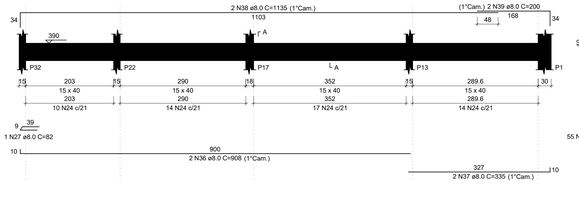
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	264	81	21384
	2	5.0	52	57	2964
	3	5.0	96	87	8352
	4	5.0	32	63	2016
	5	5.0	22	91	2002
	6	5.0	10	67	670
	7	5.0	46	105	4830
	8	5.0	16	76	1216
	9	5.0	30	33	990
	10	5.0	50	107	5350
	11	5.0	20	78	1560
	12	5.0	30	33	990
	13	5.0	27	32	864
	14	5.0	115	101	11615
	15	5.0	40	77	3080
	16	5.0	68	25	1700
	17	5.0	24	91	2184
	18	5.0	8	62	496
	19	5.0	28	30	840
	20	5.0	24	101	2424
	21	5.0	8	72	576
	22	5.0	4	129	516
	23	5.0	4	317	1268
	24	5.0	276	101	27876
	25	5.0	2	290	580
	26	5.0	59	71	4118
CA50	27	8.0	2	82	164
	28	8.0	2	853	1706
	29	8.0	2	148	296
	30	8.0	2	554	1108
	31	8.0	2	1152	2304
	32	8.0	2	147	294
	33	8.0	2	1023	2046
	34	8.0	2	83	166
	35	8.0	2	139	278
	36	8.0	2	908	1816
	37	8.0	2	335	670
	38	8.0	2	1135	2270
	39	8.0	2	200	400
	40	8.0	2	329	658
	41	8.0	2	190	380
	42	8.0	2	291	582
	43	8.0	2	203	406
	44	8.0	2	190	380
	45	8.0	2	164	328
	46	10.0	30	67	2010
	47	10.0	20	433	8660
	48	10.0	48	397	19056
	49	10.0	2	766	1532
	50	10.0	1	99	99
	51	12.5	42	442	18564
	52	12.5	48	397	19056
	53	12.5	2	589	1178
	54	12.5	1	270	270
	55	12.5	2	1001	2002
	56	12.5	1	172	172
	57	12.5	2	796	1592
	58	16.0	6	397	2382
	59	16.0	10	453	4530
	60	16.0	2	922	1844
	61	16.0	1	240	240
	62	16.0	1	258	258
	63	16.0	2	1151	2302
	64	16.0	2	970	1940
	65	16.0	2	376	752
	66	16.0	1	223	223
	67	16.0	2	1200	2400
	68	16.0	2	228	456
	69	16.0	2	622	1244
	70	16.0	1	244	244
	71	16.0	1	131	131
	72	16.0	2	691	1382

RESUMO DO AÇO

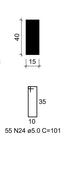
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	162.5	70.5
	10.0	313.6	212.7
	12.5	428.3	453.9
	16.0	293.3	352.9
CA60	5.0	1098.3	166.2
PESO TOTAL (kg)			
CA50	1090		
CA60	166.2		

Volume de concreto (C-30) = 9.81 m³
Área de forma = 160.42 m²

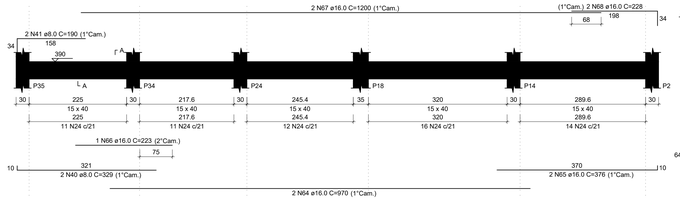
V10 (15 x 40)
ESC 1:50



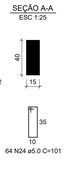
SEÇÃO A-A
ESC 1:25



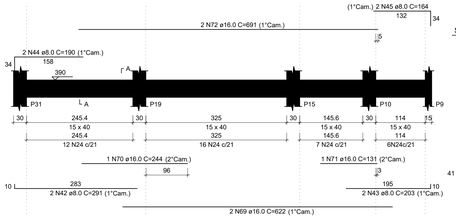
V11 (15 x 40)
ESC 1:50



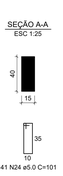
SEÇÃO A-A
ESC 1:25



V12 (15 x 40)
ESC 1:50



SEÇÃO A-A
ESC 1:25



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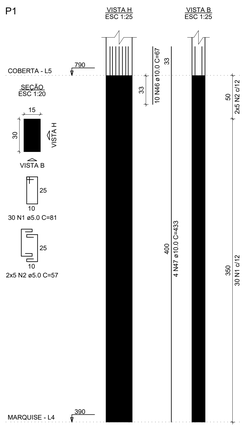

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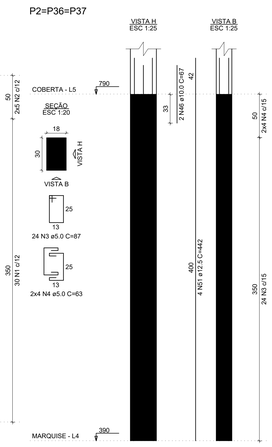

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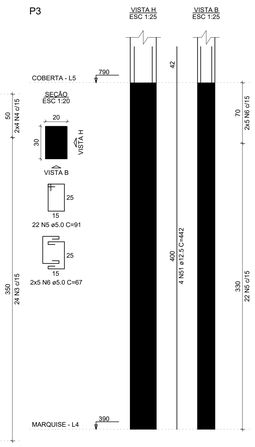
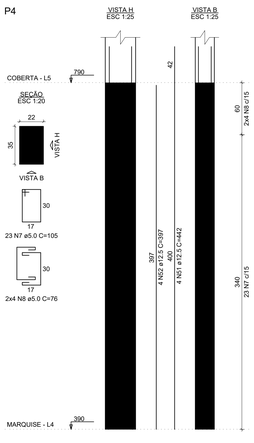
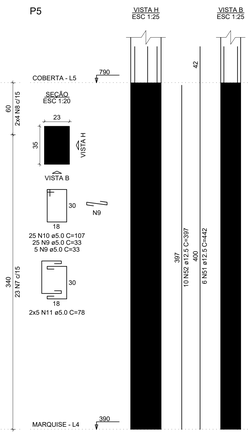


P4



P5



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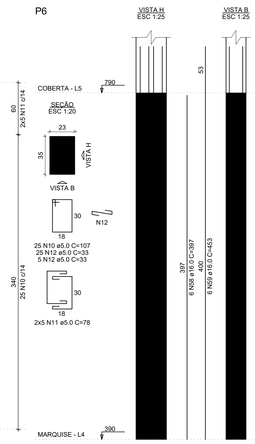

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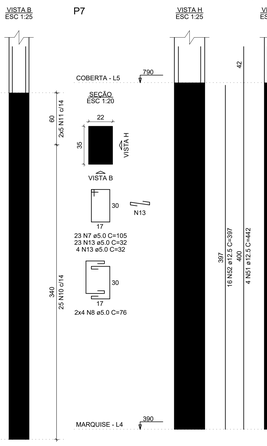

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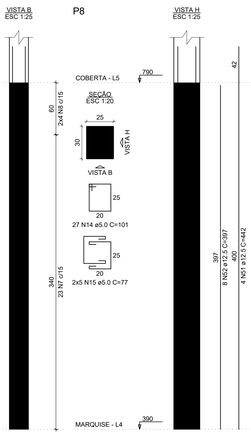

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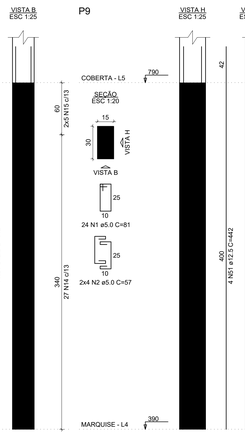

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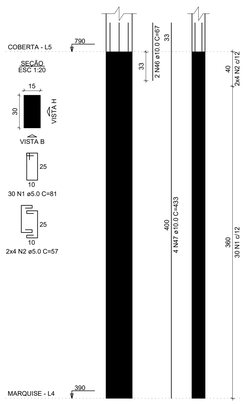

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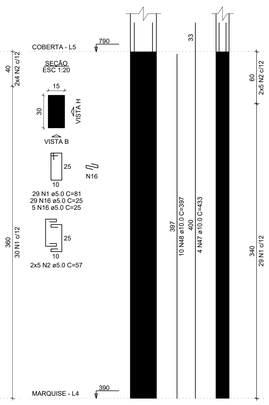

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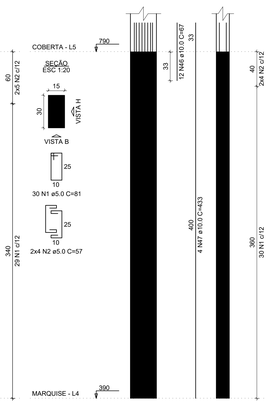

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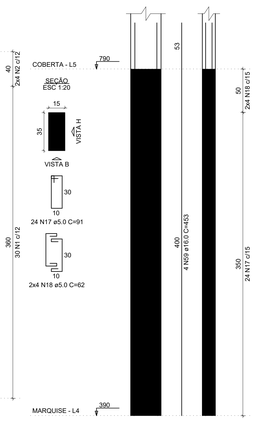

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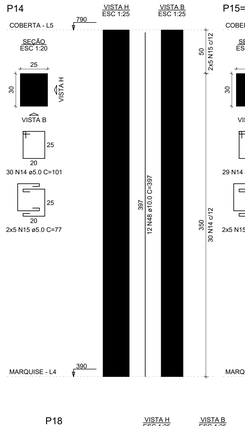

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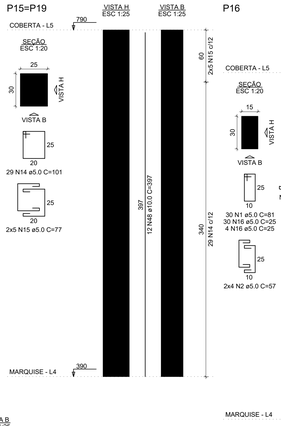

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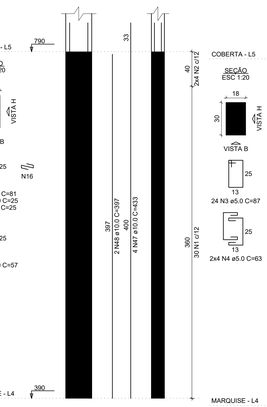

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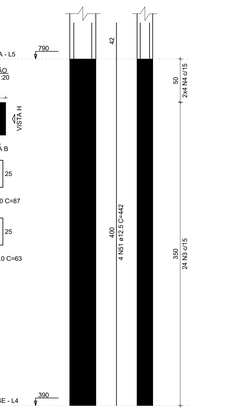

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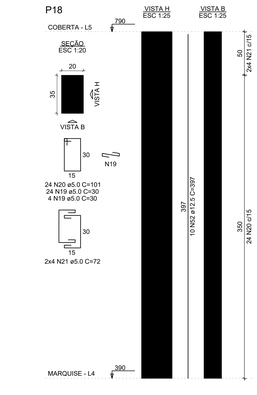

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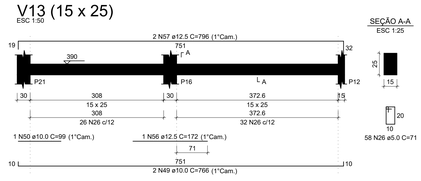
ESC 1:50



SEÇÃO A-A
ESC 1:25

CARIMBOS

PREFEITURA MUN. DE GIRAU DO PONCIANO
SEC. DE OBRAS E URBANISMO
SEOBRAS

ÁREAS:
ÁREA DO TERRENO: 2.030,00m²
ÁREA CONSTRUÍDA: 2.030,00m²

PROJETO:
Construção de uma Praça

ENDEREÇO:
Girau do Ponciano - AL

ETAPA:
ESTRUTURAL

Responsável Técnico:
Arquiteto e Urbanista: Taffarel Oliveira - CAU: 176614-7

PROPRIETÁRIO:
Prefeitura Mun. de Girau do Ponciano - CNPJ: 12.207.536/0001-61

DATA: Julho/2018

PRANCHA: 04/18

VIGAS DO PAV. MARQUISE E PRUMADA DOS PILARES

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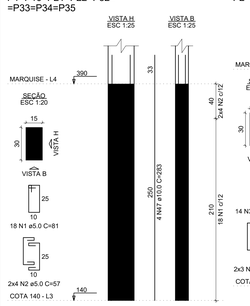

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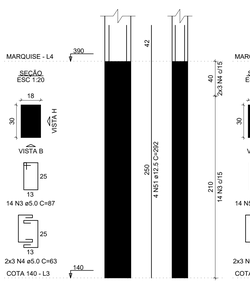

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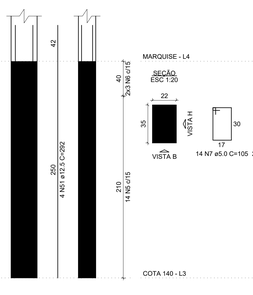

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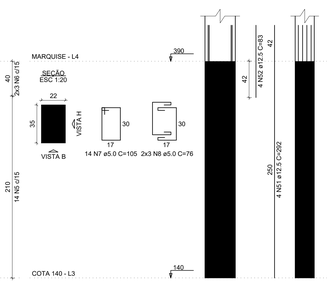

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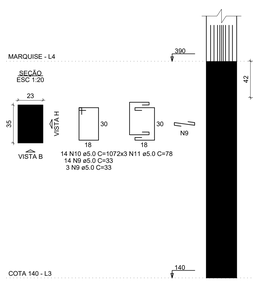

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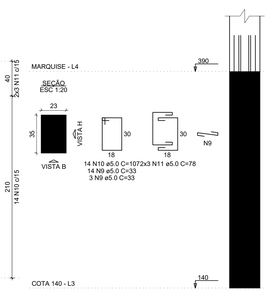

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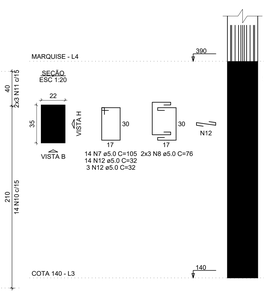

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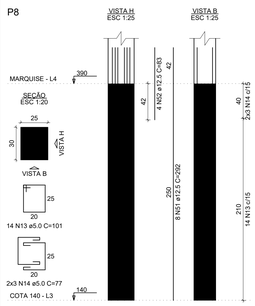

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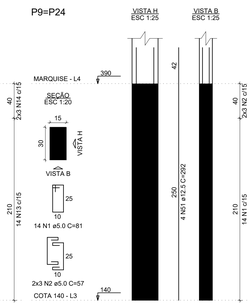

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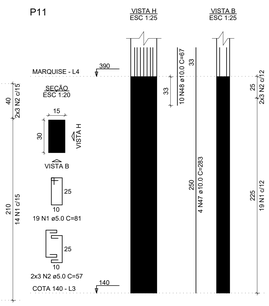

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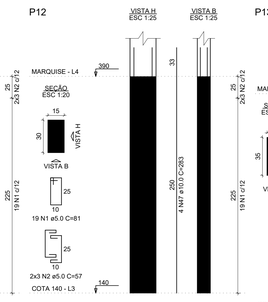

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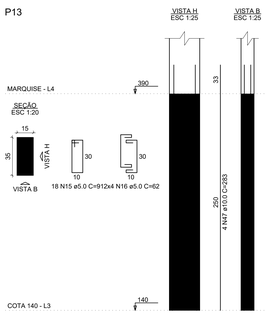

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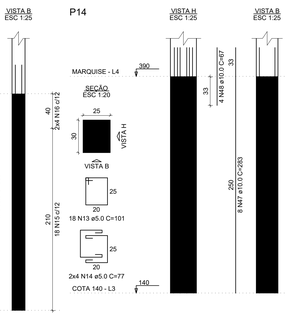

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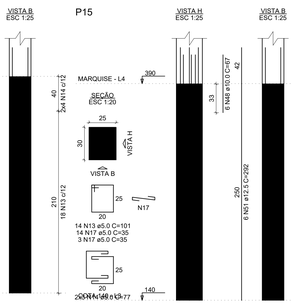

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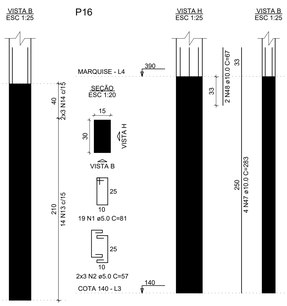

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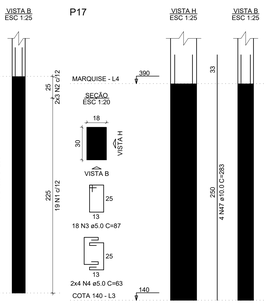

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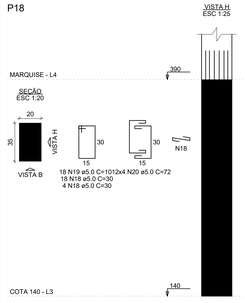

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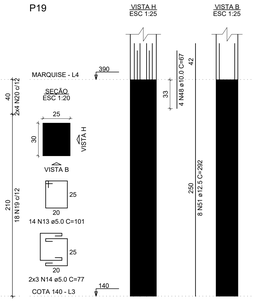

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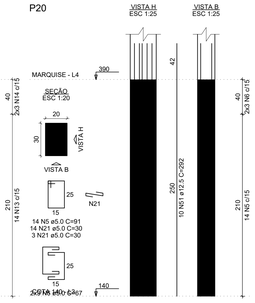

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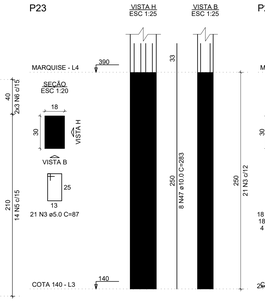

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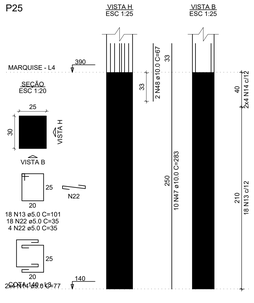

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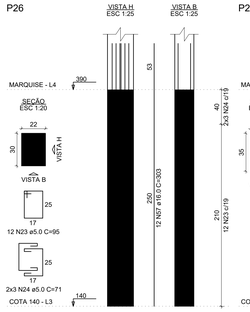

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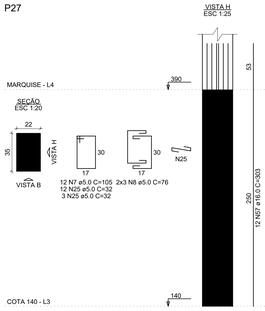

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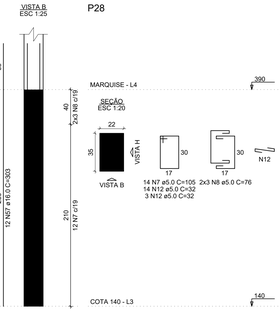

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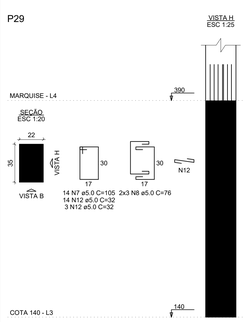

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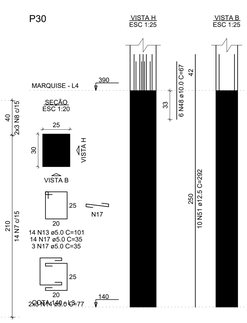

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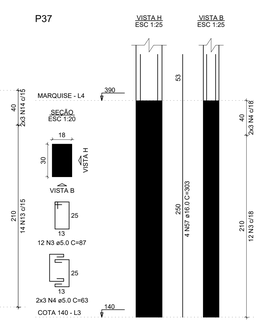

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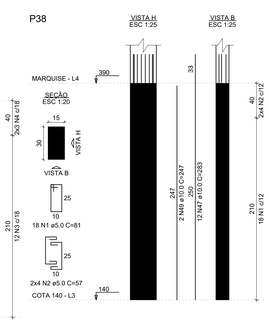

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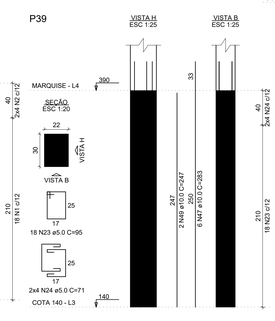

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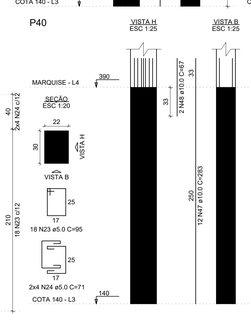

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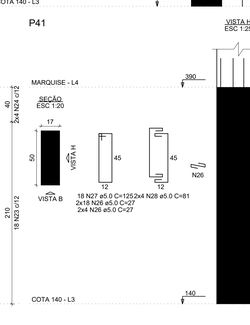

RELAÇÃO DO AÇO

8xP1	2xP2	2xP3
P4	P5	P6
P7	P8	2xP9
P11	P12	P13
P14	P15	P16
P17	P18	P19
P20	P23	P25
P26	P27	P28
P29	P30	P37
P38	P39	P40
P41	V1	V2
V3	V4	V5
V6		

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	317	81	25677
	2	5.0	102	57	5814
	3	5.0	79	87	6873
	4	5.0	26	63	1638
	5	5.0	42	91	3822
	6	5.0	18	67	1206
	7	5.0	68	105	7140
	8	5.0	30	76	2280
	9	5.0	34	107	3638
	10	5.0	24	107	2568
	11	5.0	12	78	936
	12	5.0	51	32	1632
	13	5.0	92	101	9292
	14	5.0	40	77	3080
	15	5.0	18	91	1638
	16	5.0	8	62	496
	17	5.0	34	35	1190
	18	5.0	22	30	660
	19	5.0	18	101	1818
	20	5.0	8	72	576
	21	5.0	17	30	510
	22	5.0	22	35	770
	23	5.0	48	95	4560
	24	5.0	22	71	1562
	25	5.0	15	32	480
	26	5.0	8	144	1188
	27	5.0	18	125	2250
	28	5.0	8	81	648
	29	5.0	2	386	772
	30	5.0	246	101	24846
	31	5.0	65	71	4615
CA50	32	8.0	2	877	1754
	33	8.0	2	87	174
	34	8.0	1	124	124
	35	8.0	2	1150	2300
	36	8.0	2	589	1178
	37	8.0	2	1200	2400
	38	8.0	2	505	1010
	39	8.0	2	391	782
	40	8.0	2	439	878
	41	8.0	2	1142	2284
	42	8.0	2	883	1766
	43	8.0	2	1198	2396
	44	8.0	2	937	1874
	45	8.0	2	575	1150
	46	8.0	2	623	1246
	47	10.0	126	283	35658
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	50	10.0	2	849	1698
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	54	12.5	2	322	644
	55	12.5	1	143	143
	56	12.5	2	696	1392
	57	16.0	28	303	8484
	58	16.0	2	886	1772
	59	16.0	1	217	217
	60	16.0	2	987	1974
	61	16.0	2	877	1754

RESUMO DO AÇO

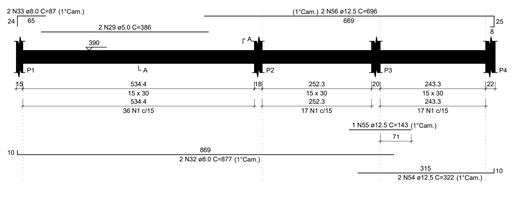
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	213.2	92.5
	10.0	412.5	279.8
	12.5	454.8	489.4
	16.0	142	246.6
CA60	5.0	1220.9	207

PESO TOTAL (kg)	
CA50	1108.2
CA60	207

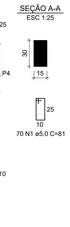
Volume de concreto (C-30) = 10.35 m³
Área de forma = 170.41 m²

V1 (15 x 30)

ESC 1:50

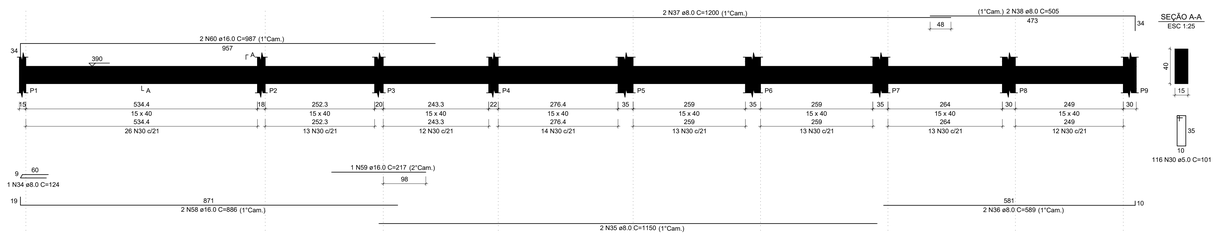


SEÇÃO A-A
ESC 1:25



V2 (15 x 40)

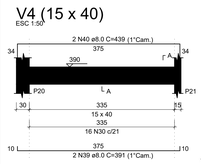
ESC 1:50



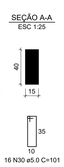
SEÇÃO A-A
ESC 1:25

V4 (15 x 40)

ESC 1:50

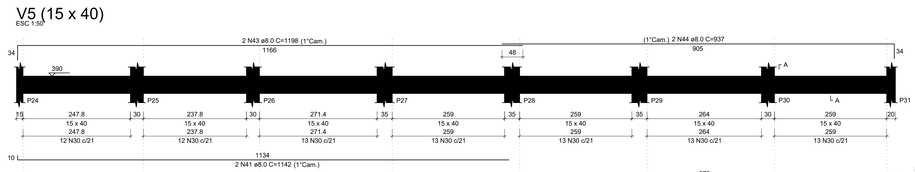


SEÇÃO A-A
ESC 1:25



V5 (15 x 40)

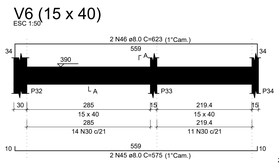
ESC 1:50



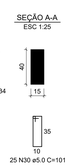
SEÇÃO A-A
ESC 1:25

V6 (15 x 40)

ESC 1:50

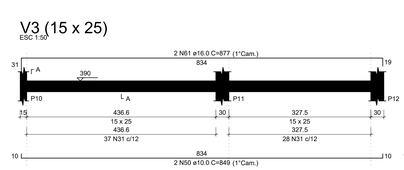


SEÇÃO A-A
ESC 1:25

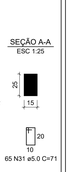


V3 (15 x 25)

ESC 1:50



SEÇÃO A-A
ESC 1:25



CARIMBOS

PREFEITURA MUN. DE GIRAU DO PONCIANO
SEC. DE OBRAS E URBANISMO
SEOBRAS

ÁREAS:

ÁREA DO TERRENO: 2.030,00m²
ÁREA CONSTRUÍDA: 2.030,00m²

PROJETO:
Construção de uma Praça

ENDEREÇO:
Girau do Ponciano - AL

ETAPA:
ESTRUTURAL

Responsável Técnico:
Arquiteto e Urbanista: Taffarel Oliveira - CAU: 176614-7

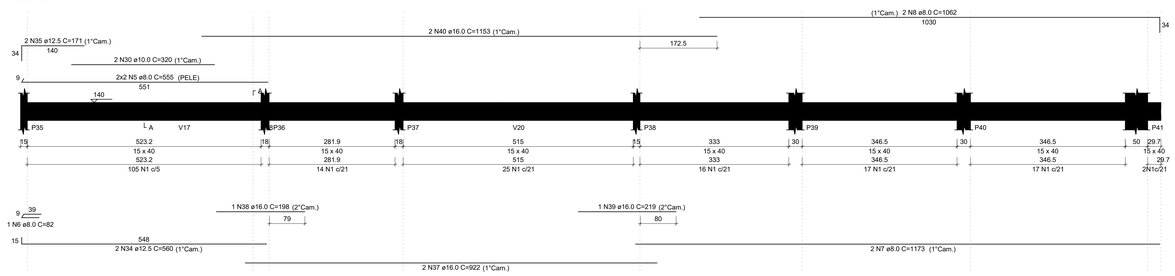
PROPRIETÁRIO:
Prefeitura Mun. de Girau do Ponciano - CNPJ: 12.207.536/0001-61

DATA:
Julho/2018

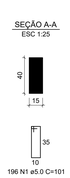
PRANCHA:
05/18

VIGAS PAV. MARQUISE
E PRUMADA DOS PILARES

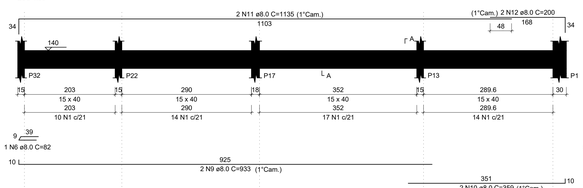
V12 (15 x 40)
ESC 1:50



SEÇÃO A-A
ESC 1:25



V13 (15 x 40)
ESC 1:50



SEÇÃO A-A
ESC 1:25

RELAÇÃO DO AÇO

V12	V13	V14	
V15	V16	V17	
V18	V19	V20	
V21	V22	V23	
V24	V25		

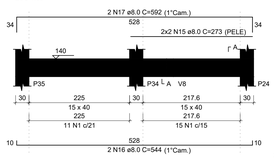
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	473	101	47773
	2	5.0	2	263	526
	3	5.0	43	111	4773
	4	5.0	2	443	886
CA50	5	8.0	4	555	2220
	6	8.0	2	92	184
	7	8.0	2	1173	2346
	8	8.0	2	1062	2124
	9	8.0	2	933	1866
	10	8.0	2	359	718
	11	8.0	2	1135	2270
	12	8.0	2	200	400
	13	8.0	2	247	494
	14	8.0	2	295	590
	15	8.0	4	273	1092
	16	8.0	2	544	1088
	17	8.0	2	592	1184
	18	8.0	2	191	382
	19	8.0	2	239	478
	20	8.0	6	349	2094
	21	8.0	2	112	224
	22	8.0	4	397	1588
	23	8.0	4	364	1456
	24	8.0	2	733	1466
	25	8.0	2	619	1238
	26	8.0	2	596	1192
	27	8.0	2	644	1288
	28	8.0	2	767	1534
	29	8.0	2	815	1630
	30	10.0	2	320	640
	31	10.0	2	771	1542
	32	10.0	2	230	460
	33	10.0	2	167	334
	34	12.5	2	560	1120
	35	12.5	2	171	342
	36	12.5	2	410	820
	37	16.0	2	922	1844
	38	16.0	1	198	198
	39	16.0	1	219	219
	40	16.0	2	1153	2306
	41	16.0	2	427	854
	42	16.0	2	347	694
	43	16.0	1	244	244
	44	16.0	2	413	826

RESUMO DO AÇO

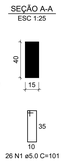
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	311.3	135.1
	10.0	29.8	20.2
	12.5	22.8	24.2
	16.0	71.9	124.7
CA60	5.0	539.6	91.5
PESO TOTAL (kg)			
CA50	304.2		
CA60	91.5		

Volume de concreto (C-30) = 5.86 m³
Área de forma = 90.76 m²

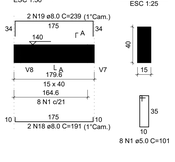
V15 (15 x 40)
ESC 1:50



SEÇÃO A-A
ESC 1:25

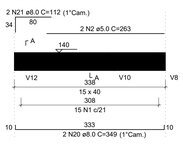


V16 (15 x 40)
ESC 1:50

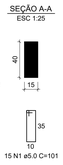


SEÇÃO A-A
ESC 1:25

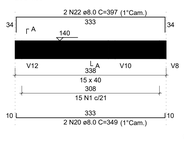
V17 (15 x 40)
ESC 1:50



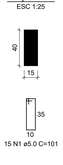
SEÇÃO A-A
ESC 1:25



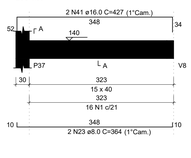
V18 (15 x 40)
ESC 1:50



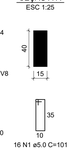
SEÇÃO A-A
ESC 1:25



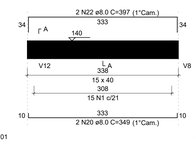
V19 (15 x 40)
ESC 1:50



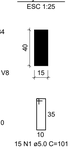
SEÇÃO A-A
ESC 1:25



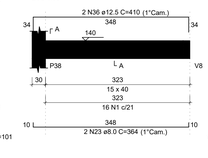
V20 (15 x 40)
ESC 1:50



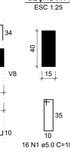
SEÇÃO A-A
ESC 1:25



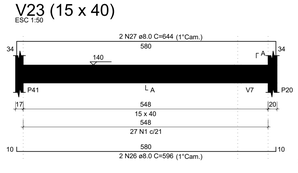
V21 (15 x 40)
ESC 1:50



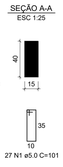
SEÇÃO A-A
ESC 1:25



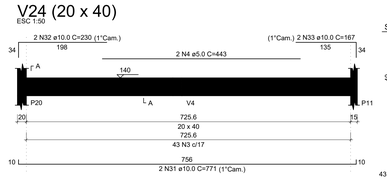
V23 (15 x 40)
ESC 1:50



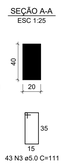
SEÇÃO A-A
ESC 1:25



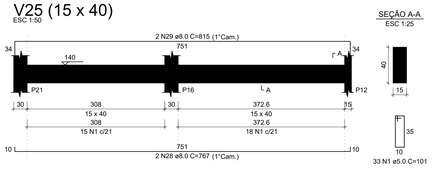
V24 (20 x 40)
ESC 1:50



SEÇÃO A-A
ESC 1:25

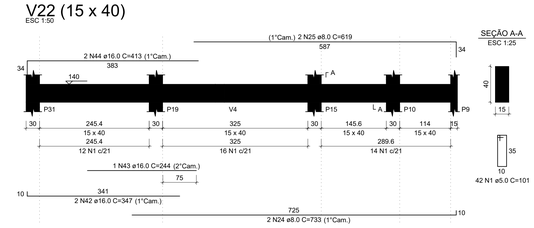


V25 (15 x 40)
ESC 1:50



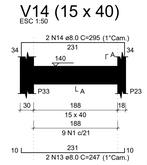
SEÇÃO A-A
ESC 1:25

V22 (15 x 40)
ESC 1:50

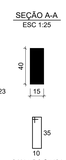


SEÇÃO A-A
ESC 1:25

V14 (15 x 40)
ESC 1:50



SEÇÃO A-A
ESC 1:25



CARIMBOS

PREFEITURA MUN. DE GIRAU DO PONCIANO
SEC. DE OBRAS E URBANISMO
SEOBRAS

ÁREAS:

ÁREA DO TERRENO: 2.030,00m²
ÁREA CONSTRUÍDA: 2.030,00m²

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ETAPA:
ESTRUTURAL

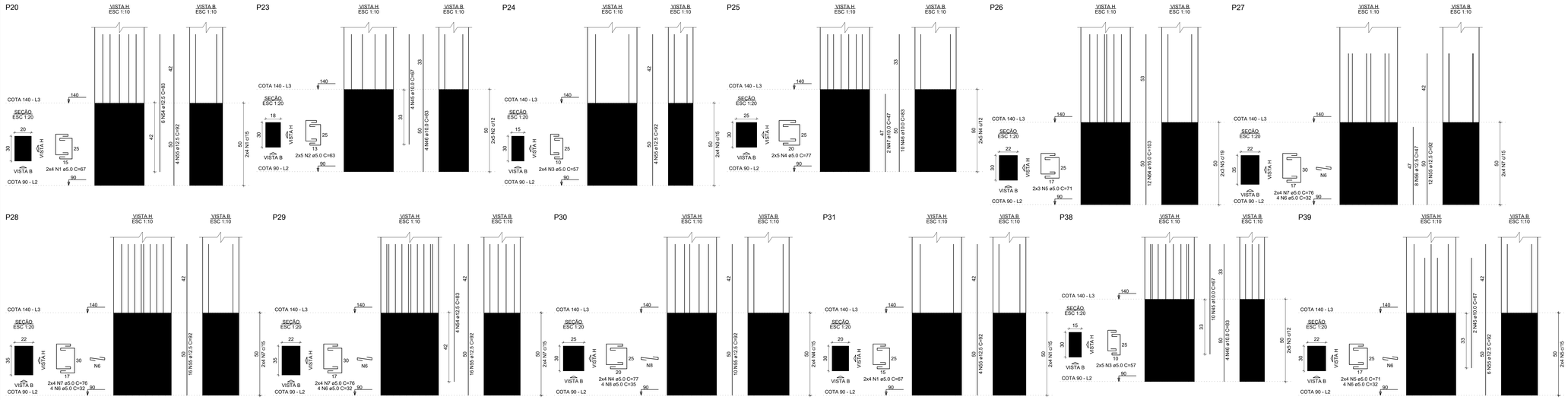
Responsável Técnico:
Arquiteto e Urbanista: Taffarel Oliveira - CAU: 176614-7

PROPRIETÁRIO:
Prefeitura Mun. de Girau do Ponciano - CNPJ: 12.207.536/0001-61

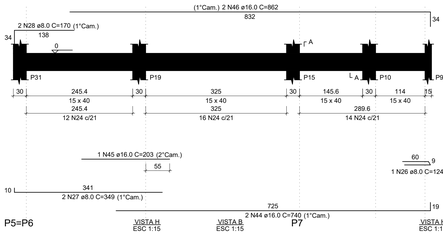
DATA:
Julho/2018

PRANCHA:
06/18

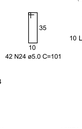
VIGAS DA COTA 140


P20
P23
P24
P25
P26
P27
P28
P29
P30
P31
P38
P39
P40
P41
VISTA H
VISTA B
ESC 1:10
ESC 1:5
SEÇÃO
ESC 1:20
COTA 140 - L3
COTA 90 - L2
2x4 N1 ø5.0 C=67
2x5 N2 ø5.0 C=63
2x4 N3 ø5.0 C=57
2x5 N4 ø5.0 C=77
2x3 N5 ø5.0 C=71
2x4 N7 ø5.0 C=76
4 N6 ø5.0 C=32
2x4 N8 ø5.0 C=77
4 N8 ø5.0 C=35
2x5 N9 ø5.0 C=27
2x5 N10 ø5.0 C=81
2 N11 ø5.0 C=71
2x4 N1 ø5.0 C=67
2x4 N4 ø5.0 C=77
4 N8 ø5.0 C=32
2x5 N3 ø5.0 C=57
2x4 N7 ø5.0 C=76
4 N6 ø5.0 C=32
2x4 N1 ø5.0 C=67
2x4 N7 ø5.0 C=76
4 N6 ø5.0 C=32
2x4 N1 ø5.0 C=67
4 N8 ø5.0 C=35
2x5 N3 ø5.0 C=57
2x4 N7 ø5.0 C=76
4 N6 ø5.0 C=32
2x4 N1 ø5.0 C=67
2x4 N7 ø5.0 C=76
4 N6 ø5.0 C=32
2x5 N3 ø5.0 C=71
2x4 N7 ø5.0 C=76
4 N6 ø5.0 C=32
2x4 N1 ø5.0 C=67
2x4 N7 ø5.0 C=76
4 N6 ø5.0 C=32

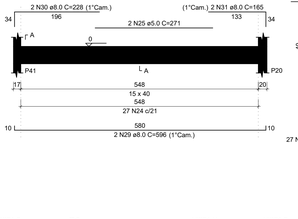
V34 (15 x 40)
ESC 1:50



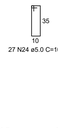
SEÇÃO A-A
ESC 1:25



V35 (15 x 40)
ESC 1:50



SEÇÃO A-A
ESC 1:25



V36 (15 x 40)
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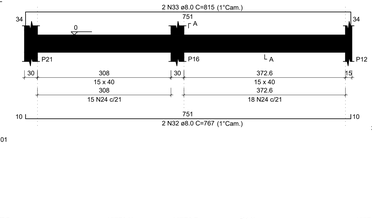

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ESC 1:25

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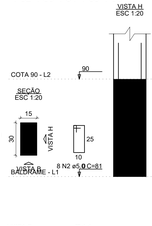

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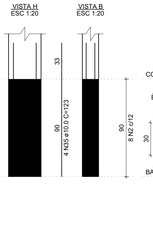

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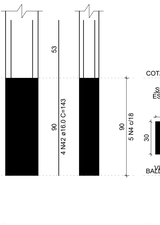

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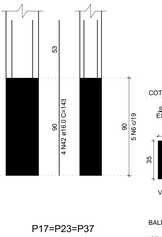

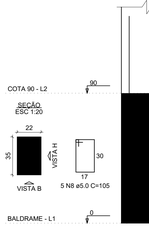

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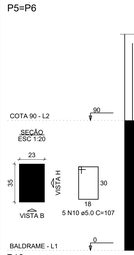

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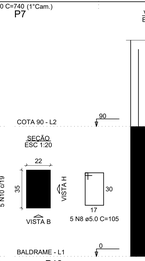

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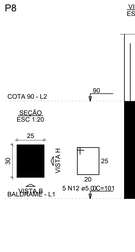

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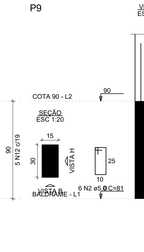

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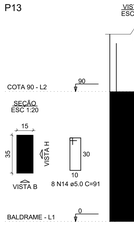

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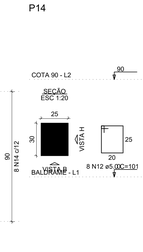

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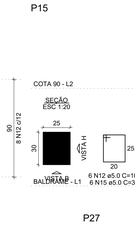

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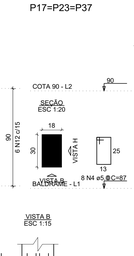

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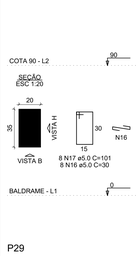

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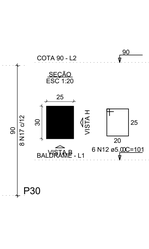

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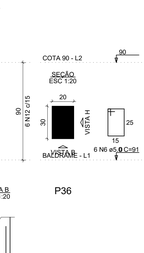

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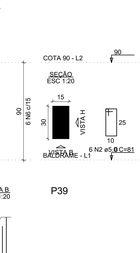

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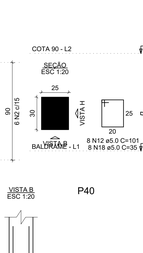

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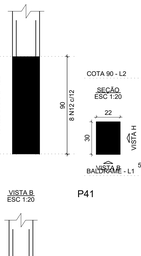

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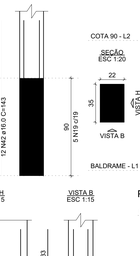

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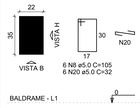

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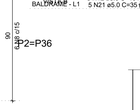

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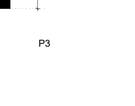

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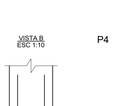

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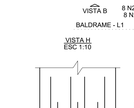

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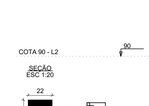

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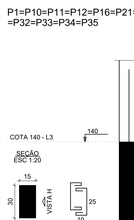

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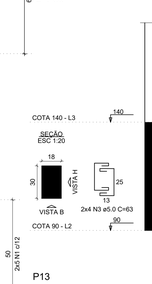

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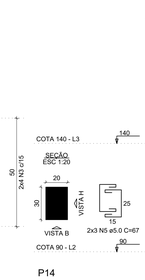

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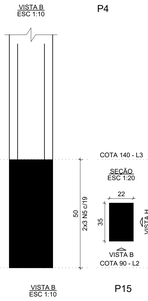

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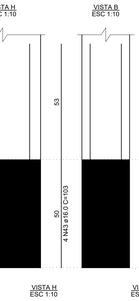

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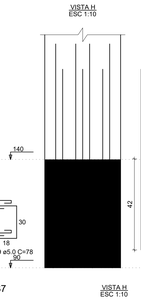

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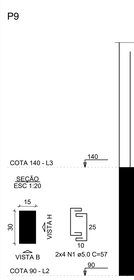

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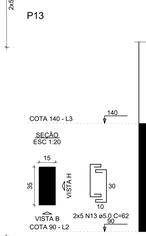

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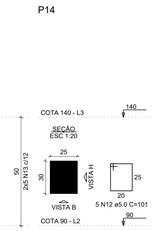

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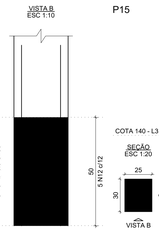

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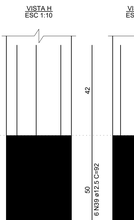

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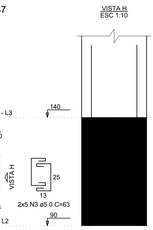

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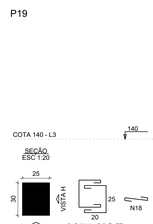


P8

11xP1-L3
P2-L2
P4-L2
2xP5-L2
P8-L3
P9-L2
P14-L3
P15-L3
P17-L3
P18-L2
P25-L2
P28-L2
P36-L2
P41-L2
V35-L1
12xP1-L2
P3-L3
P7-L3
P13-L3
P14-L2
2xP17-L3
2xP18-L2
2xP24-L2
2xP42-L2
V36-L1
2xP2-L3
P3-L2
2xP5-L3
P7-L2
P9-L3
P13-L2
P14-L3
3xP17-L2
P18-L3
P24-L3
P27-L2
P30-L2
P40-L2
V34-L1

RELAÇÃO DO AÇO

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	118	81	9726
	2	5.0	108	81	8748
	3	5.0	36	63	2268
	4	5.0	35	87	3045
	5	5.0	6	67	402
	6	5.0	17	91	1547
	7	5.0	12	76	912
	8	5.0	28	105	2940
	9	5.0	12	78	936
	10	5.0	10	107	1070
	11	5.0	24	77	1848
	12	5.0	43	101	4343
	13	5.0	10	62	620
	14	5.0	8	91	728
	15	5.0	10	35	350
	16	5.0	13	30	390
	17	5.0	45	101	4545
	18	5.0	13	35	455
	19	5.0	19	95	1805
	20	5.0	24	32	768
	21	5.0	5	35	175
	22	5.0	8	27	216
	23	5.0	8	125	1000
	24	5.0	102	101	10302
	25	5.0	2	271	542
CA50	26	8.0	1	124	124
	27	8.0	2	349	698
	28	8.0	2	170	340
	29	8.0	2	596	1192
	30	8.0	2	228	456
	31	8.0	2	165	330
	32	8.0	2	767	1534
	33	8.0	2	815	1630
	34	10.0	64	83	6972
	35	10.0	112	123	13776
	36	10.0	18	87	1566
	37	10.0	2	47	94
	38	10.0	4	67	268
	39	12.5	14	92	1288
	40	12.5	28	83	2324
	41	12.5	86	132	11352
	42	16.0	62	133	8866
	43	16.0	40	103	4120
	44	16.0	2	740	1480
	45	16.0	1	203	203
	46	16.0	2	862	1724

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	63	27.4
	10.0	226.8	153.8
	12.5	149.6	158.6
	16.0	163.9	284.6
CA60	5.0	566.8	96.1

PESO TOTAL (kg)	
CA50	624.3
CA60	96.1

Volume de concreto (C-30) = 4.57 m³
Área de forma = 75.22 m²

CARIMBOS

PREFEITURA MUN. DE GIRAU DO PONCIANO
SEC. DE OBRAS E URBANISMO
SEOBRAS

ÁREAS:
ÁREA DO TERRENO: 2.030,00m²
ÁREA CONSTRUÍDA: 2.030,00m²

PROJETO:
Construção de uma Praça

ENDEREÇO:
Girau do Ponciano - AL

ETAPA:
ESTRUTURAL

Responsável Técnico:
Arquiteto e Urbanista: Taffarel Oliveira - CAU: 176614-7

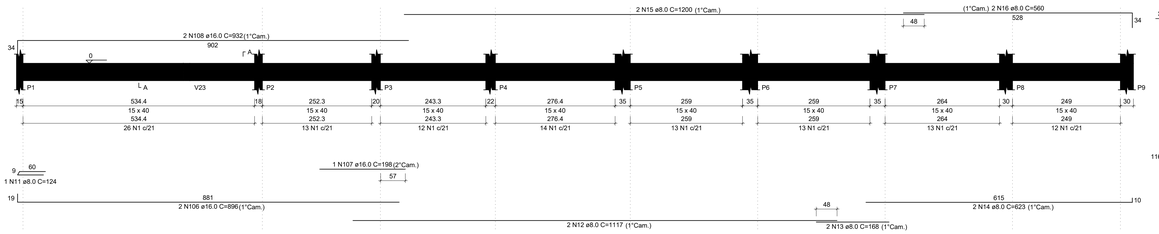
PROPRIETÁRIO:
Prefeitura Mun. de Girau do Ponciano - CNPJ: 12.207.536/0001-61

DATA: Julho/2018

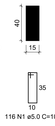
PRANCHA: 08/18

VIGAS BALDRAME E ARRANQUE DE PILARES

V1 (15 x 40)
ESC 1:50



SEÇÃO A-A
ESC 1:25



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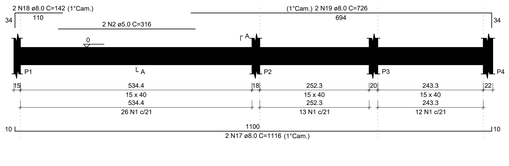
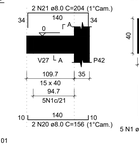
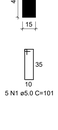


SEÇÃO A-A
ESC 1:25

V3 (15 x 40)
ESC 1:50



SEÇÃO A-A
ESC 1:25



RELAÇÃO DO AÇO

V1	V2	V3
V4	V5	V6
V7	V8	V9
V10	V11	V12
V13	V14	V15
V16	V17	V18
V19	V20	V21
V22	V23	V24
V25	V26	V27
V28	V29	V30
V31	V32	

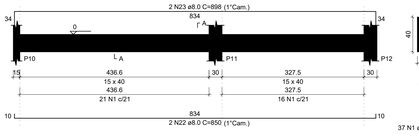
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	900	101	90900
	2	5.0	2	316	632
	3	5.0	2	365	730
	4	5.0	4	129	516
	5	5.0	2	277	554
	6	5.0	106	107	11342
	7	5.0	2	315	630
	8	5.0	2	265	530
	9	5.0	2	341	682
CA50	10	6.3	88	108	9504
	11	8.0	3	124	372
	12	8.0	2	1117	2234
	13	8.0	2	168	336
	14	8.0	2	623	1246
	15	8.0	2	1200	2400
	16	8.0	2	560	1120
	17	8.0	2	1116	2232
	18	8.0	2	142	284
	19	8.0	2	726	1452
	20	8.0	2	156	312
	21	8.0	2	204	408
	22	8.0	2	850	1700
	23	8.0	2	898	1796
	24	8.0	2	414	828
	25	8.0	2	241	482
	26	8.0	2	289	578
	27	8.0	2	256	512
	28	8.0	2	304	608
	29	8.0	2	391	782
	30	8.0	2	439	878
	31	8.0	2	411	822
	32	8.0	2	459	918
	33	8.0	8	292	2336
	34	8.0	2	1109	2218
	35	8.0	2	176	352
	36	8.0	4	119	476
	37	8.0	2	354	708
	38	8.0	2	402	804
	39	8.0	4	82	328
	40	8.0	2	884	1768
	41	8.0	2	475	950
	42	8.0	2	112	224
	43	8.0	2	575	1150
	44	8.0	2	623	1246
	45	8.0	2	559	1118
	46	8.0	2	231	462
	47	8.0	2	853	1706
	48	8.0	4	555	2220
	49	8.0	1	85	85
	50	8.0	2	908	1816
	51	8.0	2	335	670
	52	8.0	2	1135	2270
	53	8.0	2	200	400
	54	8.0	2	396	792
	55	8.0	2	107	214
	56	8.0	2	247	494
	57	8.0	2	295	590
	58	8.0	2	331	662
	59	8.0	2	379	758
	60	8.0	4	328	1312
	61	8.0	2	331	662
	62	8.0	2	379	758
	63	8.0	8	273	2184
	64	8.0	4	345	1380
	65	8.0	1	150	150
	66	8.0	2	309	618
	67	8.0	2	1004	2008
	68	8.0	1	160	160
	69	8.0	2	1198	2396
	70	8.0	2	398	796
	71	8.0	2	161	322
	72	8.0	2	209	418
	73	8.0	2	191	382
	74	8.0	2	239	478
	75	8.0	2	175	350
	76	8.0	2	223	446
	77	8.0	6	352	2112
	78	8.0	2	114	228
	79	8.0	2	707	1414
	80	8.0	2	207	414
	81	8.0	2	227	454
	82	8.0	4	349	1396
	83	8.0	4	364	1456
	84	8.0	2	400	800
	85	10.0	2	193	386
	86	10.0	2	1173	2346
	87	10.0	2	314	628
	88	10.0	1	179	179
	89	10.0	2	399	798
	90	12.5	2	460	920
	91	12.5	1	257	257
	92	12.5	2	237	474
	93	12.5	2	314	628
	94	12.5	1	454	454
	95	12.5	2	1197	2394
	96	12.5	2	957	1914
	97	12.5	1	273	273
	98	12.5	1	300	300
	99	12.5	2	560	1120
	100	12.5	1	195	195
	101	12.5	1	1021	1021
	102	12.5	2	1194	2388
	103	12.5	2	1200	2400
	104	12.5	2	387	774
	105	12.5	2	410	820
	106	16.0	2	896	1792
	107	16.0	1	198	198
	108	16.0	2	932	1864
	109	16.0	2	196	392
	110	16.0	2	235	470
	111	16.0	2	577	1154
	112	16.0	2	625	1250
	113	16.0	2	660	1320
	114	16.0	2	550	1100
	115	16.0	2	604	1208
	116	16.0	1	218	218
	117	16.0	2	1009	2018
	118	16.0	2	922	1844
	119	16.0	2	204	408
	120	16.0	1	239	239
	121	16.0	2	428	856

RESUMO DO AÇO

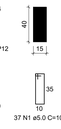
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	95	25.6
	8.0	715.7	310.6
	10.0	43.4	29.4
	12.5	163.3	173.1
	16.0	154.9	268.9
CA60	5.0	1065.2	180.6
PESO TOTAL (kg)			
CA50	807.6		
CA60	180.6		

Volume de concreto (C-30) = 13.46 m³
Área de forma = 209.04 m²

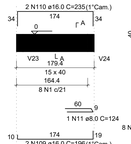
V4 (15 x 40)
ESC 1:50



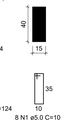
SEÇÃO A-A
ESC 1:25



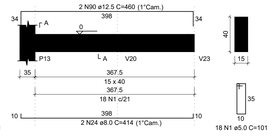
V5 (15 x 40)
ESC 1:50



SEÇÃO A-A
ESC 1:25

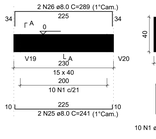


V6 (15 x 40)
ESC 1:50

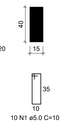


SEÇÃO A-A
ESC 1:25

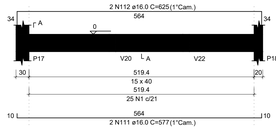
V7 (15 x 40)
ESC 1:50



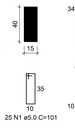
SEÇÃO A-A
ESC 1:25



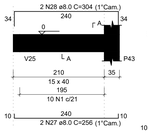
V8 (15 x 40)
ESC 1:50



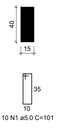
SEÇÃO A-A
ESC 1:25



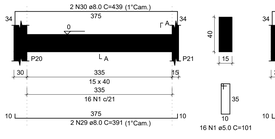
V9 (15 x 40)
ESC 1:50



SEÇÃO A-A
ESC 1:25

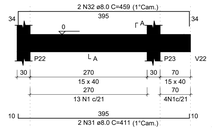


V10 (15 x 40)
ESC 1:50

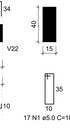


SEÇÃO A-A
ESC 1:25

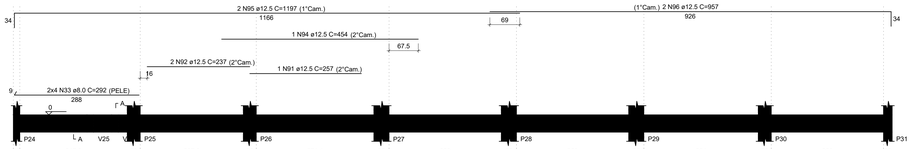
V11 (15 x 40)
ESC 1:50



SEÇÃO A-A
ESC 1:25

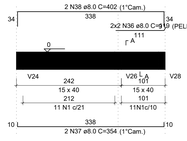


V12 (15 x 40)
ESC 1:50

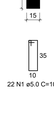


SEÇÃO A-A
ESC 1:25

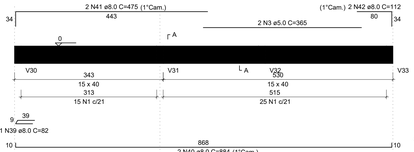
V13 (15 x 40)
ESC 1:50



SEÇÃO A-A
ESC 1:25

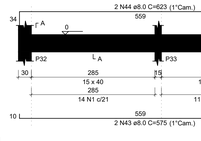


V14 (15 x 40)
ESC 1:50



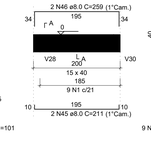
SEÇÃO A-A
ESC 1:25

V15 (15 x 40)
ESC 1:50

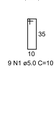


SEÇÃO A-A
ESC 1:25

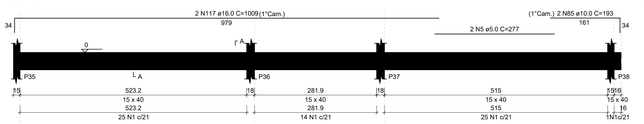
V16 (15 x 40)
ESC 1:50



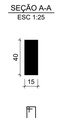
SEÇÃO A-A
ESC 1:25



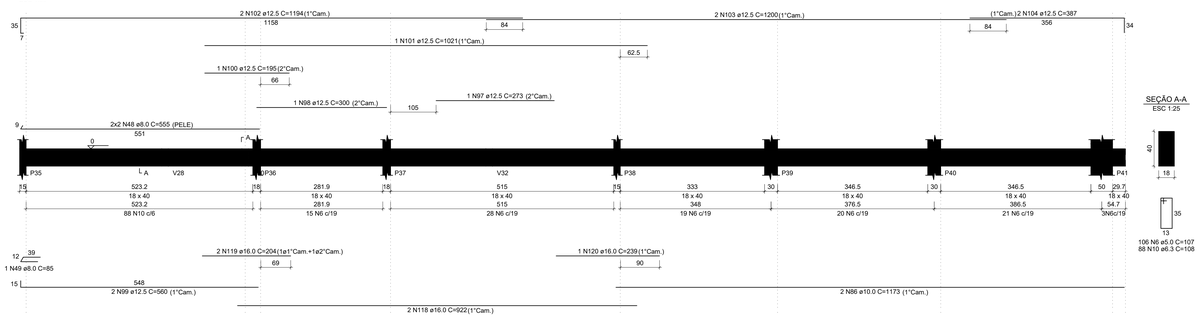
V17 (15 x 40)
ESC 1:50



SEÇÃO A-A
ESC 1:25

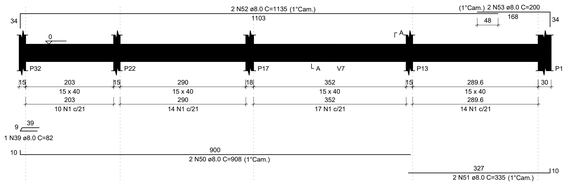


V18 (18 x 40)
ESC 1:50



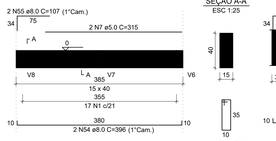
SEÇÃO A-A
ESC 1:25

V19 (15 x 40)
ESC 1:50



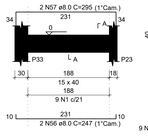
SEÇÃO A-A
ESC 1:25

V20 (15 x 40)
ESC 1:50

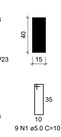


SEÇÃO A-A
ESC 1:25

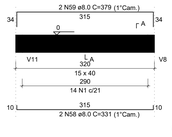
V21 (15 x 40)
ESC 1:50



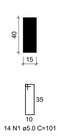
SEÇÃO A-A
ESC 1:25



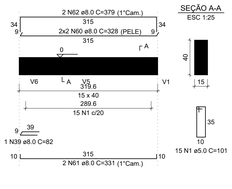
V22 (15 x 40)
ESC 1:50



SEÇÃO A-A
ESC 1:25

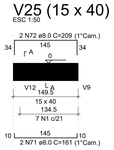


V23 (15 x 40)
ESC 1:50

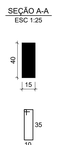


SEÇÃO A-A
ESC 1:25

V25 (15 x 40)
ESC 1:50



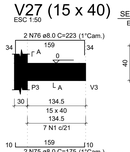
SEÇÃO A-A
ESC 1:25



V26 (15 x 40)
ESC 1:50

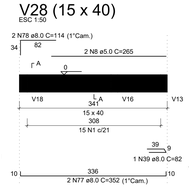
SEÇÃO A-A
ESC 1:25

V27 (15 x 40)
ESC 1:50

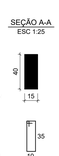


SEÇÃO A-A
ESC 1:25

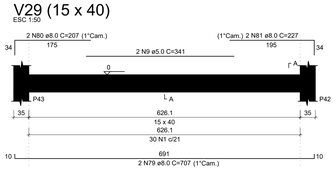
V28 (15 x 40)
ESC 1:50



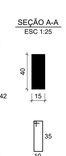
SEÇÃO A-A
ESC 1:25



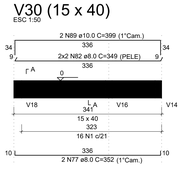
V29 (15 x 40)
ESC 1:50



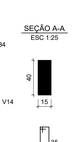
SEÇÃO A-A
ESC 1:25



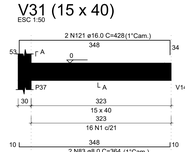
V30 (15 x 40)
ESC 1:50



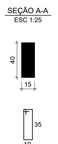
SEÇÃO A-A
ESC 1:25



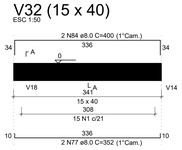
V31 (15 x 40)
ESC 1:50



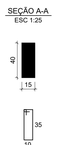
SEÇÃO A-A
ESC 1:25



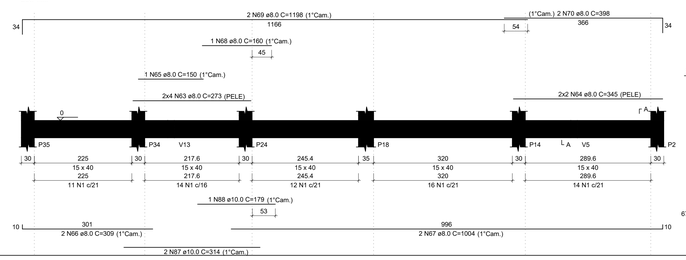
V32 (15 x 40)
ESC 1:50



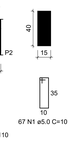
SEÇÃO A-A
ESC 1:25



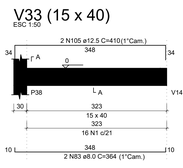
V24 (15 x 40)
ESC 1:50



SEÇÃO A-A
ESC 1:25



V33 (15 x 40)
ESC 1:50



SEÇÃO A-A
ESC 1:25

CARIMBOS

PREFEITURA MUN. DE GIRAU DO PONCIANO
SEC. DE OBRAS E URBANISMO
SEOBRAS

ÁREAS:
ÁREA DO TERRENO: 2.030,00m²
ÁREA CONSTRUÍDA: 2.030,00m²

PROJETO:
Construção de uma Praça

ENDEREÇO:
Girau do Ponciano - AL

ETAPA:
ESTRUTURAL

Responsável Técnico:
Arquiteto e Urbanista: Taffarel Oliveira - CAU: 176614-7

PROPRIETÁRIO:
Prefeitura Mun. de Girau do Ponciano - CNPJ: 12.207.536/0001-61

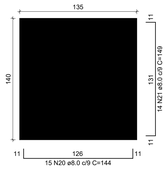
DATA: Julho/2018

PRANCHA: 09/18

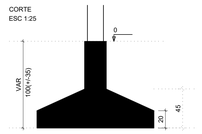
VIGAS BALDRAME

S15=S36

PLANTA
ESC 1:25

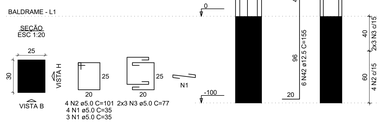


CORTE
ESC 1:25

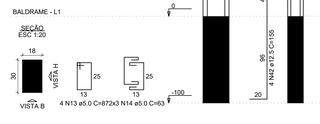


Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

P15

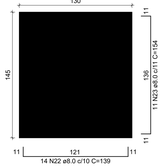


P36

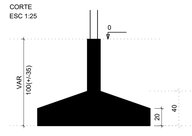


S16=S37=S38

PLANTA
ESC 1:25

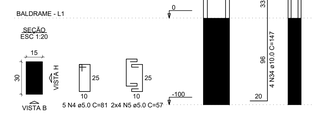


CORTE
ESC 1:25



Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

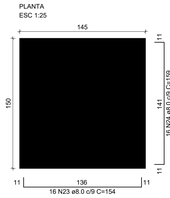
P16=P38



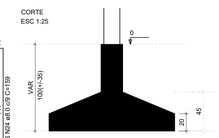
P37

S19

PLANTA
ESC 1:25

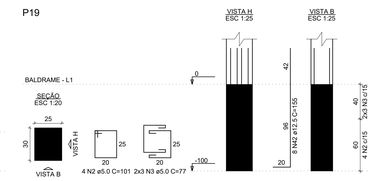


CORTE
ESC 1:25



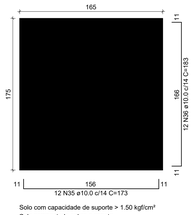
Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

P19

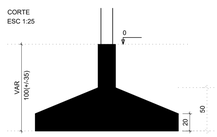


S20

PLANTA
ESC 1:25

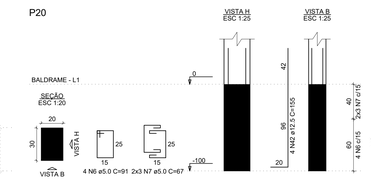


CORTE
ESC 1:25



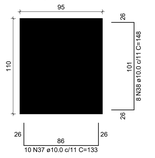
Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

P20

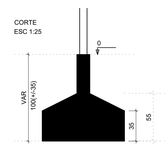


S24

PLANTA
ESC 1:25

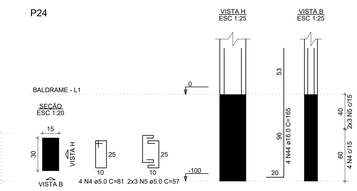


CORTE
ESC 1:25



Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

P24



RELAÇÃO DO AÇO

P15	2xP16	P19	
P20	P24	P26	
P27	P28	P29	
P32	P36	P37	
P39	P40	P41	
P42	P43	2xS15	
3xS16	S19	S20	
S24	2xS27	2xS29	
S32	S39	S40	
S41	S42	S43	

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	7	35	245
	2	5.0	8	101	808
	3	5.0	12	77	924
	4	5.0	19	81	1539
	5	5.0	30	57	1710
	6	5.0	4	91	364
	7	5.0	6	67	402
	8	5.0	13	95	1235
	9	5.0	20	71	1420
	10	5.0	21	32	672
	11	5.0	12	105	1260
	12	5.0	18	76	1368
	13	5.0	9	87	783
	14	5.0	14	63	882
	15	5.0	7	32	224
	16	5.0	9	27	243
	17	5.0	5	125	625
	18	5.0	8	81	648
	19	5.0	36	101	3636
CA50	20	8.0	30	144	4320
	21	8.0	28	149	4172
	22	8.0	42	139	5838
	23	8.0	49	154	7546
	24	8.0	16	159	2544
	25	8.0	9	94	846
	26	8.0	7	109	763
	27	8.0	12	124	1488
	28	8.0	11	134	1474
	29	8.0	11	129	1419
	30	8.0	19	134	2546
	31	8.0	12	104	1248
	32	8.0	18	99	1782
	33	8.0	16	99	1584
	34	10.0	50	147	7350
	35	10.0	12	173	2076
	36	10.0	36	183	6588
	37	10.0	10	133	1330
	38	10.0	8	148	1184
	39	10.0	28	168	4704
	40	10.0	28	163	4564
	41	12.5	24	178	4272
	42	12.5	18	83	1494
	43	12.5	18	83	1494
	44	16.0	48	165	7920

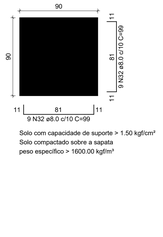
RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	375.7	163.1
	10.0	320.7	217.5
	12.5	58.3	61.8
	16.0	79.2	137.5
CA60	5.0	189.9	32.2
PESO TOTAL (kg)			
CA50	579.9		
CA60	32.2		

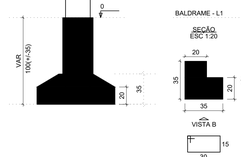
Volume de concreto (C-30) = 11.41 m³
Área de forma = 39.38 m²

S26=S27

PLANTA
ESC 1:25

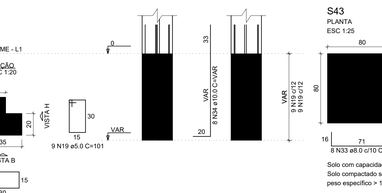


CORTE
ESC 1:25

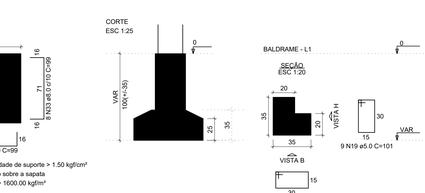


Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

P26

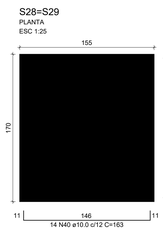


P27

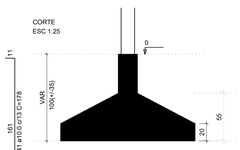


S28=S29

PLANTA
ESC 1:25

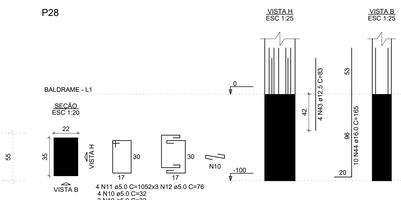


CORTE
ESC 1:25

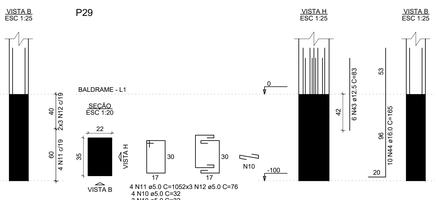


Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

P28

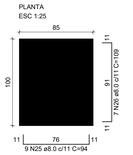


P29

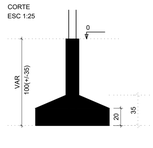


S32

PLANTA
ESC 1:25

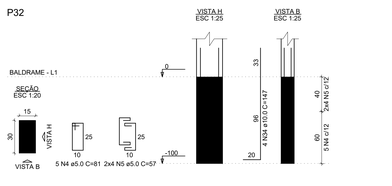


CORTE
ESC 1:25



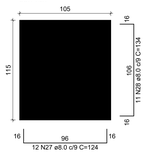
Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

P32

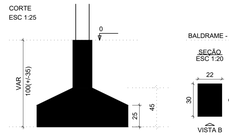


S39

PLANTA
ESC 1:25

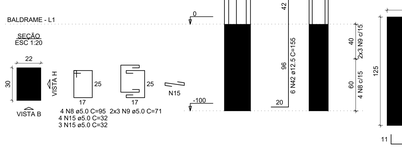


CORTE
ESC 1:25



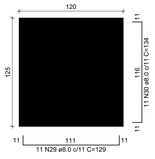
Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

P39

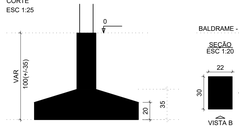


S40

PLANTA
ESC 1:25

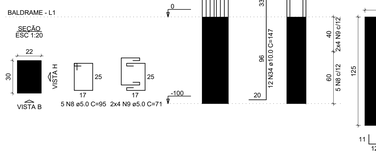


CORTE
ESC 1:25



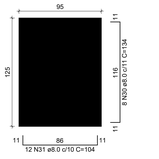
Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

P40

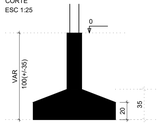


S41

PLANTA
ESC 1:25



CORTE
ESC 1:25



Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

S42

PLANTA
ESC 1:25

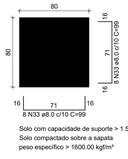
CORTE
ESC 1:25

Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

P42

S43

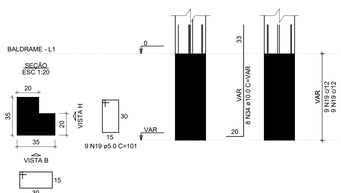
PLANTA
ESC 1:25



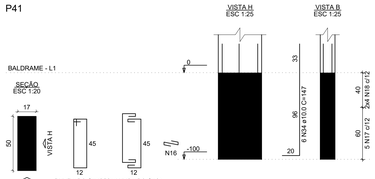
CORTE
ESC 1:25

Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

P43



P41



CARIMBOS

PREFEITURA MUN. DE GIRAU DO PONCIANO
SEC. DE OBRAS E URBANISMO
SEOBRAS

ÁREAS:

ÁREA DO TERRENO: 2.030,00m²
ÁREA CONSTRUÍDA: 2.030,00m²

PROJETO:
Construção de uma Praça

ENDEREÇO:
Girau do Ponciano - AL

ETAPA:
ESTRUTURAL

Responsável Técnico:
Arquiteto e Urbanista: Taffarel Oliveira - CAU: 176614-7

PROPRIETÁRIO:
Prefeitura Mun. de Girau do Ponciano - CNPJ: 12.207.536/0001-61

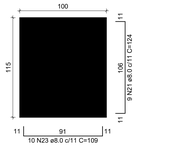
DATA: Julho/2018

PRANCHA: 10/18

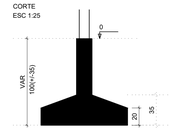
FUNDAÇÃO

S1=S10=S21=S22=S23=S33=S34=S35

PLANTA
ESC 1:25

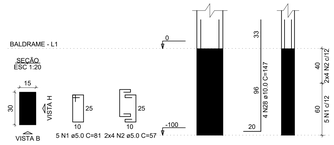


CORTE
ESC 1:25

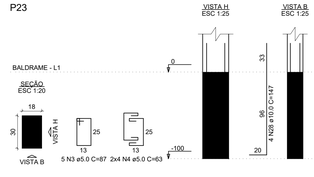


Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso especifico > 1600.00 kgf/m³

P1=P10=P21=P22=P33=P34=P35

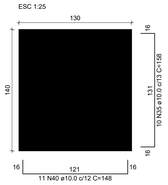


P23

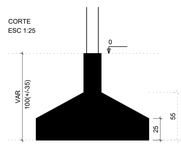


S2=S31

PLANTA
ESC 1:25

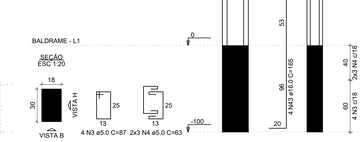


CORTE
ESC 1:25

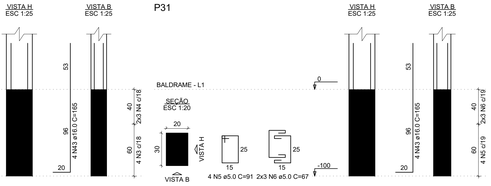


Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso especifico > 1600.00 kgf/m³

P2



P31



RELAÇÃO DO AÇO

7xP1	P2	P3	
P4	P5	P6	
P7	P8	P9	
P11	P12	P13	
P14	P17	P18	
P23	P25	P30	
P31	S3	S5	
2x57	S8	S9	
S14	2x517	2x518	
8x523	2x525	2x530	
2x531			

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	49	81	3969
	2	5.0	78	57	4446
	3	5.0	14	87	1218
	4	5.0	22	63	1386
	5	5.0	8	91	728
	6	5.0	12	67	804
	7	5.0	8	105	840
	8	5.0	12	76	912
	9	5.0	9	107	963
	10	5.0	14	78	1092
	11	5.0	9	33	297
	12	5.0	18	101	1818
	13	5.0	28	77	2156
	14	5.0	5	91	455
	15	5.0	8	62	496
	16	5.0	5	101	505
	17	5.0	8	72	576
	18	5.0	7	35	245
CA50	19	8.0	30	139	4170
	20	8.0	33	144	4752
	21	8.0	94	124	11656
	22	8.0	24	129	3096
	23	8.0	80	109	8720
	24	8.0	30	154	4620
	25	8.0	28	159	4452
	26	8.0	36	164	5904
	27	8.0	30	169	5070
	28	10.0	78	147	11466
	29	10.0	10	111	1110
	30	10.0	10	67	670
	31	10.0	11	148	1628
	32	10.0	10	158	1580
	33	10.0	13	153	1989
	34	10.0	11	163	1793
	35	10.0	55	158	8690
	36	10.0	22	168	3696
	37	10.0	11	153	1683
	38	10.0	9	128	1152
	39	10.0	7	143	1001
	40	10.0	22	148	3256
	41	12.5	4	110	440
	42	12.5	6	155	930
	43	16.0	40	165	6600

RESUMO DO AÇO

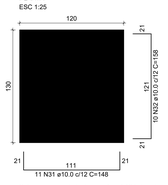
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	524.4	227.6
	10.0	397.1	269.0
	12.5	13.7	14.5
	16.0	66	114.6
CA60	5.0	229.1	38.8

PESO TOTAL (kg)	
CA50	626.1
CA60	38.8

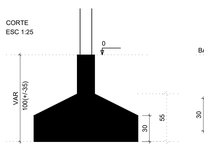
Volume de concreto (C-30) = 14.07 m³
Área de forma = 52.88 m²

S3

PLANTA
ESC 1:25

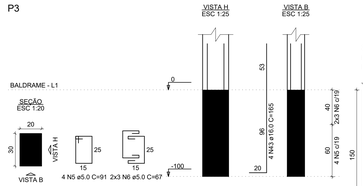


CORTE
ESC 1:25



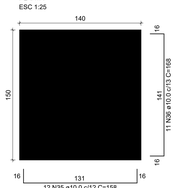
Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso especifico > 1600.00 kgf/m³

P3

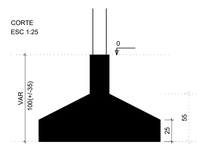


S4=S7

PLANTA
ESC 1:25

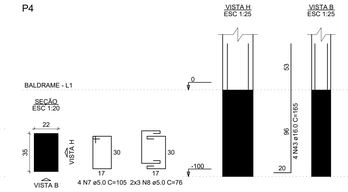


CORTE
ESC 1:25

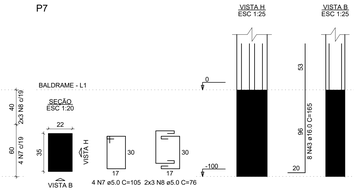


Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso especifico > 1600.00 kgf/m³

P4

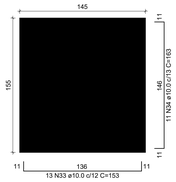


P7

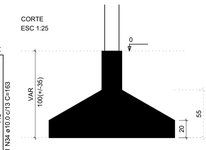


S5

PLANTA
ESC 1:25

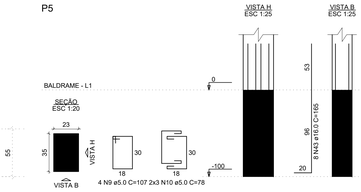


CORTE
ESC 1:25



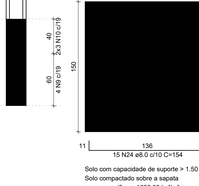
Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso especifico > 1600.00 kgf/m³

P5

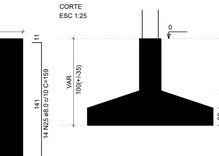


S6=S25

PLANTA
ESC 1:25

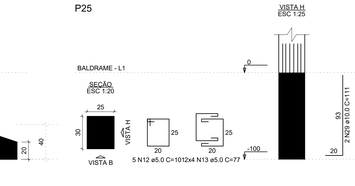


CORTE
ESC 1:25

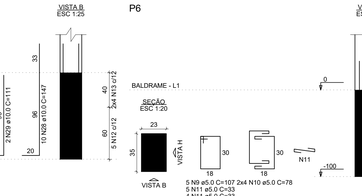


Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso especifico > 1600.00 kgf/m³

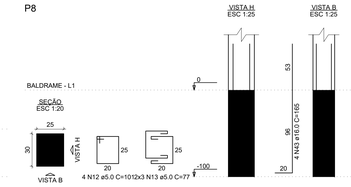
P25



P6

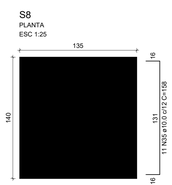


P8

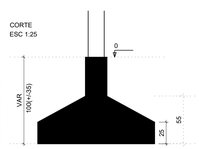


S8

PLANTA
ESC 1:25



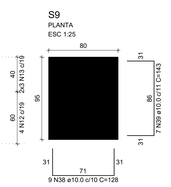
CORTE
ESC 1:25



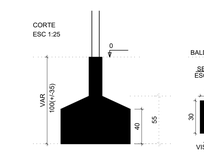
Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso especifico > 1600.00 kgf/m³

S9

PLANTA
ESC 1:25

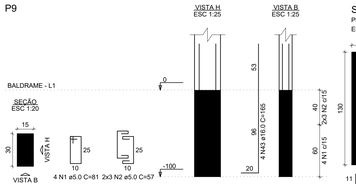


CORTE
ESC 1:25



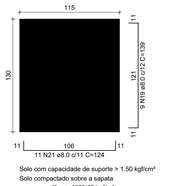
Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso especifico > 1600.00 kgf/m³

P9

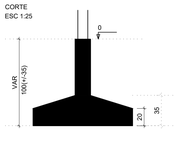


S12=S17

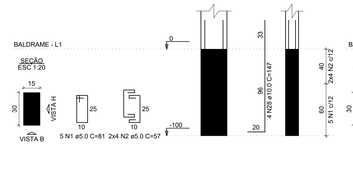
PLANTA
ESC 1:25



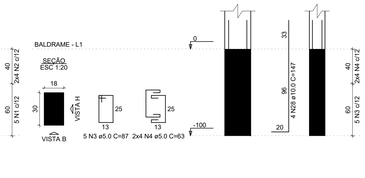
CORTE
ESC 1:25



P12

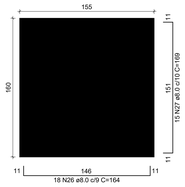


P17

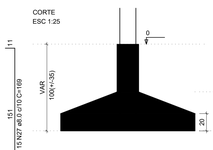


S11=S30

PLANTA
ESC 1:25

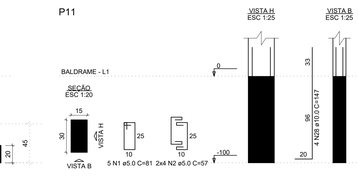


CORTE
ESC 1:25

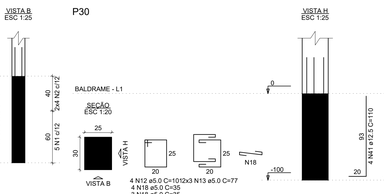


Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso especifico > 1600.00 kgf/m³

P11

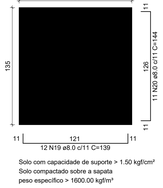


P30

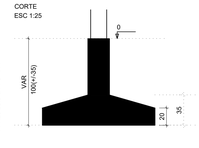


S14

PLANTA
ESC 1:25

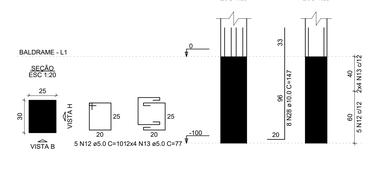


CORTE
ESC 1:25



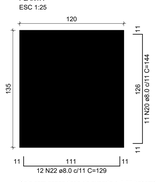
Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso especifico > 1600.00 kgf/m³

P14

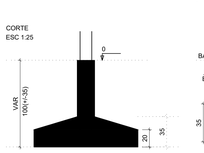


S13=S18

PLANTA
ESC 1:25

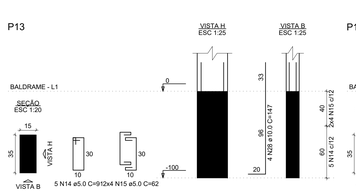


CORTE
ESC 1:25

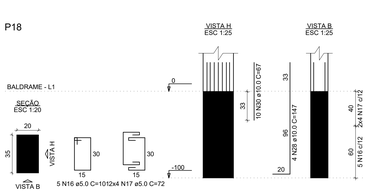


Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso especifico > 1600.00 kgf/m³

P13



P18



CARIMBOS

PREFEITURA MUN. DE GIRAU DO PONCIANO
SEC. DE OBRAS E URBANISMO
SEOBRAS

ÁREAS:
ÁREA DO TERRENO: 2.030,00m²
ÁREA CONSTRUÍDA: 2.030,00m²

PROJETO:
Construção de uma Praça

ENDEREÇO:
Girau do Ponciano - AL

ETAPA:
ESTRUTURAL

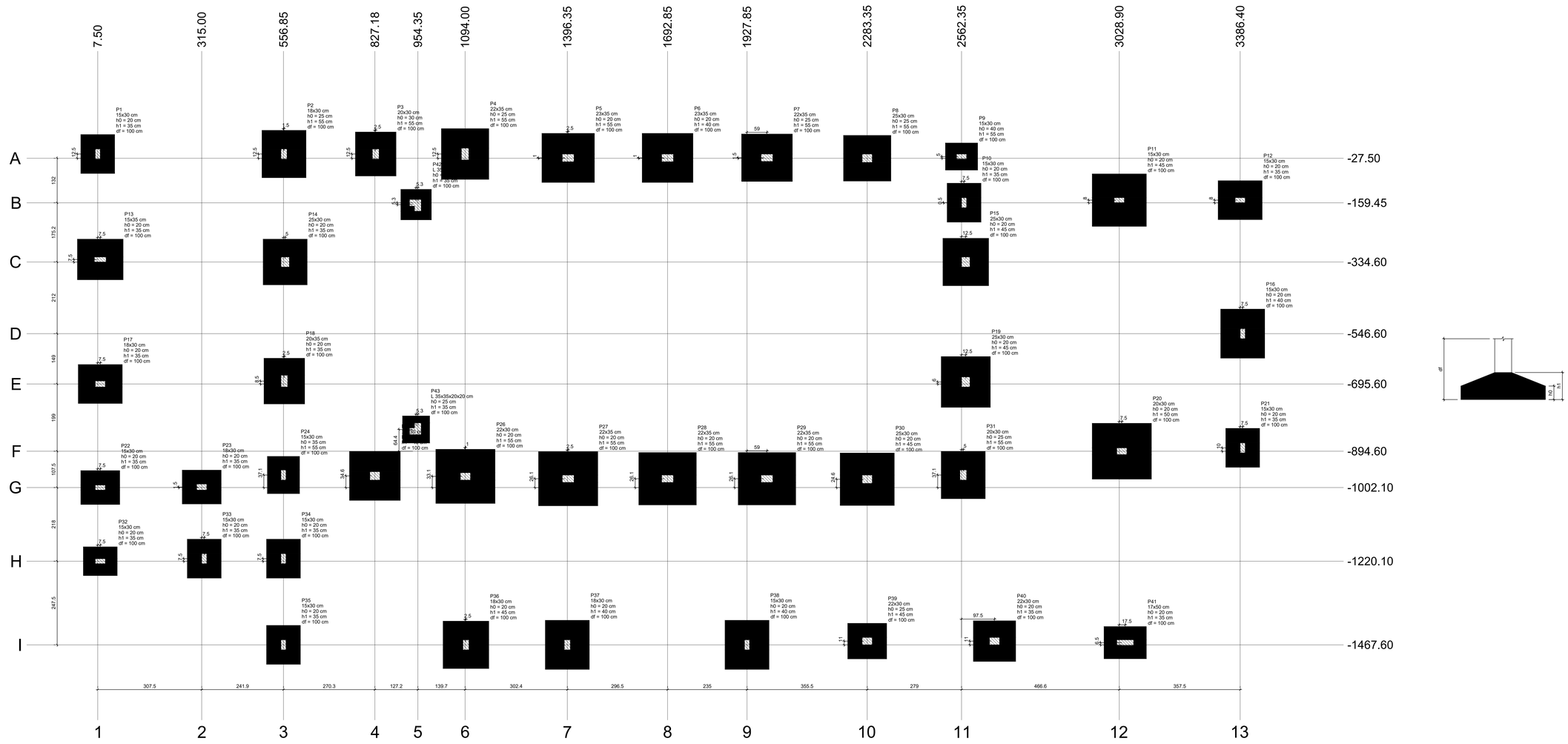
Responsável Técnico:
Arquiteto e Urbanista: Taffarel Oliveira - CAU: 176614-7

PROPRIETÁRIO:
Prefeitura Mun. de Girau do Ponciano - CNPJ: 12.207.536/0001-61

DATA: Julho/2018

PRANCHA: 11/18

FUNDAÇÃO



Planta de locação

escala 1:50

Pilar													Fundação				
Nome	Seção (cm)	X (cm)	Y (cm)	Carga Máx. (tf)	Carga Mín. (tf)	Mx Máximo (kgf.m) Positivo	Mx Máximo (kgf.m) Negativo	My Máximo (kgf.m) Positivo	My Máximo (kgf.m) Negativo	Fx Máximo (tf) Positivo	Fx Máximo (tf) Negativo	Fy Máximo (tf) Positivo	Fy Máximo (tf) Negativo	Lado B (cm)	Lado H (cm)	h0 / ha (cm)	h1 / hb (cm)	df (cm)
P1	15x30	7.50	-15.00	13.7	12.2	0	0	0	0	0.0	-0.4	0.2	0.0	100	115	20	35	100
P2	18x30	558.35	-15.00	21.1	18.3	0	0	0	0	0.3	0.0	0.3	0.0	130	140	25	55	100
P3	20x30	829.68	-15.00	18.0	14.9	0	0	0	0	0.1	-0.1	0.2	0.0	120	130	30	55	100
P4	22x35	1094.00	-15.00	24.3	20.3	0	0	0	0	0.1	-0.1	0.5	0.0	140	150	25	55	100
P5	23x35	1398.85	-26.00	26.6	22.2	0	0	0	0	0.2	-0.2	0.3	0.0	145	155	20	55	100
P6	23x35	1692.85	-26.50	26.5	22.2	0	0	0	0	0.2	0.0	0.3	0.0	145	150	20	40	100
P7	22x35	1986.85	-26.00	25.4	21.0	0	0	0	0	0.2	0.0	0.2	0.0	140	150	25	55	100
P8	25x30	2283.35	-27.50	22.4	18.8	0	0	0	0	0.1	-0.2	0.1	0.0	135	140	25	55	100
P9	15x30	2562.35	-22.50	8.7	6.6	0	0	0	0	0.2	0.0	0.2	0.0	80	95	40	55	100
P10	15x30	2569.85	-159.00	11.7	10.2	0	0	0	0	0.0	-0.3	0.5	0.0	100	115	20	35	100
P11	15x30	3028.90	-151.50	29.4	25.8	0	0	0	0	0.0	-0.3	0.2	0.0	155	160	20	45	100
P12	15x30	3386.40	-151.50	15.9	14.1	0	0	0	0	0.0	-0.1	0.2	0.0	115	130	20	35	100
P13	15x35	15.00	-327.10	18.9	15.6	0	0	0	0	0.0	-0.7	0.2	0.0	120	135	20	35	100
P14	25x30	561.85	-334.60	19.9	14.6	0	0	0	0	0.1	0.0	0.2	0.0	130	135	20	35	100
P15	25x30	2574.85	-334.60	22.3	16.8	0	0	0	0	0.1	0.0	0.6	0.0	135	140	20	45	100
P16	15x30	3393.90	-546.60	22.2	19.4	0	0	0	0	0.1	0.0	0.1	-0.1	130	145	20	40	100
P17	18x30	15.00	-695.60	17.8	14.9	0	0	0	0	0.1	-0.3	0.1	-0.2	115	130	20	35	100
P18	20x35	559.35	-687.10	18.4	13.7	0	0	0	0	0.3	0.0	0.3	0.0	120	135	20	35	100
P19	25x30	2574.85	-689.60	24.9	19.5	0	0	0	0	0.1	0.0	0.5	0.0	145	150	20	45	100
P20	20x30	3036.40	-894.60	34.2	28.1	0	0	0	0	0.1	-0.2	0.2	0.0	165	175	20	50	100
P21	15x30	3393.90	-894.60	12.9	11.1	0	0	0	0	0.1	0.0	0.1	-0.1	100	115	20	35	100
P22	15x30	15.00	-1002.10	13.9	12.3	0	0	0	0	0.0	-0.2	0.1	0.0	100	115	20	35	100
P23	18x30	315.00	-1000.60	13.7	10.9	0	0	0	0	0.0	-0.2	0.1	0.0	100	115	20	35	100
P24	15x30	556.85	-965.00	12.3	9.6	0	0	0	0	0.0	-0.1	0.3	0.0	95	110	35	55	100
P25	25x30	827.18	-967.50	26.1	20.4	0	0	0	0	0.3	0.0	0.8	0.0	145	150	20	40	100
P26	22x30	1095.00	-969.00	33.1	25.5	0	0	0	0	0.1	0.0	0.1	-0.2	160	175	20	55	100
P27	22x35	1398.85	-976.00	34.4	26.2	0	0	0	0	0.1	-0.3	0.0	-0.3	160	175	20	55	100
P28	22x35	1692.85	-976.00	29.5	22.7	0	0	0	0	0.1	-0.3	0.0	-0.2	155	170	20	55	100
P29	22x35	1986.85	-976.00	31.6	24.4	0	0	0	0	0.1	-0.1	0.0	-0.3	155	170	20	55	100
P30	25x30	2283.35	-977.50	29.7	22.8	0	0	0	0	0.1	-0.1	0.0	-0.1	155	160	20	45	100
P31	20x30	2567.35	-965.00	20.9	14.5	0	0	0	0	0.1	0.0	0.3	0.0	130	140	25	55	100
P32	15x30	15.00	-1220.10	9.5	8.5	0	0	0	0	0.0	-0.2	0.1	0.0	85	100	20	35	100
P33	15x30	322.50	-1212.60	12.4	11.0	0	0	0	0	0.0	-0.1	0.2	0.0	100	115	20	35	100
P34	15x30	556.85	-1212.60	13.2	11.0	0	0	0	0	0.0	-0.1	0.3	0.0	100	115	20	35	100
P35	15x30	556.85	-1467.60	12.8	10.7	0	0	0	0	0.0	-0.2	0.2	-0.2	100	115	20	35	100
P36	18x30	1096.50	-1467.60	21.6	19.0	0	0	0	0	0.5	0.0	0.0	-0.6	135	140	20	45	100
P37	18x30	1396.35	-1467.60	22.2	19.7	0	0	0	0	0.0	-0.3	0.0	-2.1	130	145	20	40	100
P38	15x30	1927.85	-1467.60	22.9	19.9	0	0	0	0	0.3	0.0	0.0	-0.9	130	145	20	40	100
P39	22x30	2283.35	-1456.60	14.3	12.1	0	0	0	0	0.4	0.0	0.2	0.0	105	115	25	45	100
P40	22x30	2659.88	-1456.60	17.6	14.7	0	0	0	0	0.3	0.0	0.0	-0.2	120	125	20	35	100
P41	17x50	3046.40	-1461.10	13.8	11.9	0	0	0	0	0.4	0.0	0.0	-0.4	95	125	20	35	100
P42	L 35x35x20x20	954.35	-159.45	1.2	0.9	0	0	0	0	0.0	-0.2	0.6	0.0	90	90	20	35	100
P43	L 35x35x20x20	954.35	-835.50	1.3	1.0	0	0	0	0	0.1	0.0	0.0	-0.5	80	80	25	35	100

Os esforços indicados nesta tabela são os valores máximos obtidos pela envoltória de todas as combinações definidas para as fundações. Para análises complementares, deve-se consultar o relatório de esforços na fundação, que apresenta os valores calculados para cada combinação.

Locação no eixo X	
Coordenadas (cm)	Nome
7.50	P1
15.00	P13, P17, P22, P32
315.00	P23
322.50	P33
556.85	P24, P34, P35
558.35	P2
559.35	P18
561.85	P14
827.18	P25
829.68	P3
954.35	P42, P43
1094.00	P4
1095.00	P26
1096.50	P36
1396.35	P37
1398.85	P5, P27
1692.85	P6, P28
1927.85	P38
1986.85	P7, P29
2283.35	P8, P30, P39
2562.35	P9
2567.35	P31
2569.85	P10
2574.85	P15, P19
2659.88	P40
3028.90	P11
3036.40	P20
3046.40	P41
3386.40	P12
3393.90	P16, P21

Locação no eixo Y	
Coordenadas (cm)	Nome
-15.00	P1, P2, P3, P4
-22.50	P9
-26.00	P7
-26.50	P5, P6
-27.50	P8
-151.50	P11, P12
-159.00	P10
-159.45	P42
-327.10	P13
-334.60	P14, P15
-546.60	P16
-687.10	P18
-689.60	P19
-695.60	P17
-835.50	P43
-884.60	P21
-894.60	P20
-965.00	P24, P31
-967.50	P25
-969.00	P26
-976.00	P27, P28, P29
-977.50	P30
-1000.60	P23
-1002.10	P22
-1212.60	P33, P34
-1220.10	P32
-1456.60	P39, P40
-1461.10	P41
-1467.60	P35, P36, P37, P38

CARIMBOS

PREFEITURA MUN. DE GIRAU DO PONCIANO
SEC. DE OBRAS E URBANISMO
SEOBRAS

ÁREAS:

ÁREA DO TERRENO: 2.030,00m²
ÁREA CONSTRUÍDA: 2.030,00m²

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Girau do Ponciano - AL

ETAPA:
ESTRUTURAL

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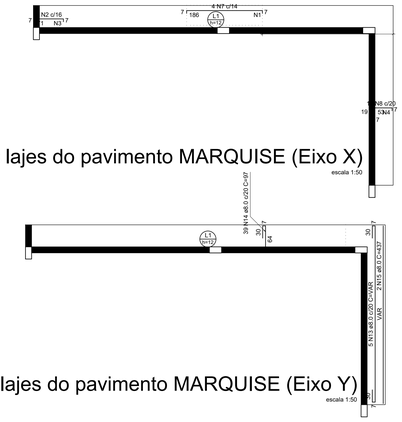
Arquiteto e Urbanista: Taffarel Oliveira - CAU: 176614-7

PROPRIETÁRIO:
Prefeitura Mun. de Girau do Ponciano - CNPJ: 12.207.536/0001-61

DATA: Julho/2018

PRANCHA: 12/18

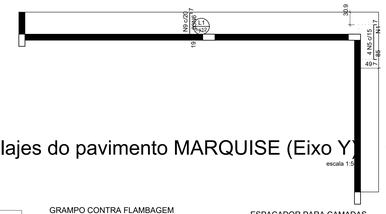
LOCAÇÃO DAS SAPATAS



Armação negativa das lajes do pavimento MARQUISE (Eixo X)

escala 1:50

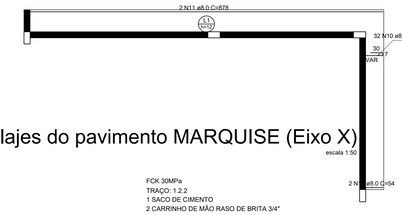
Armaduras de distribuição	
Armadura	Armadura de distribuição
N7	10 N1 ø5.0 c/20 C=49
N2	4 N3 ø5.0 c/20 C=66
N8	3 N4 ø5.0 c/20 C=380



Armação negativa das lajes do pavimento MARQUISE (Eixo Y)

escala 1:50

Armaduras de distribuição	
Armadura	Armadura de distribuição
N5	5 N1 ø5.0 c/20 C=49
N9	4 N6 ø5.0 c/20 C=824



Armação positiva das lajes do pavimento MARQUISE (Eixo X)

escala 1:50

RELAÇÃO DO AÇO

Negativos X
Positivos Y

Negativos Y
Positivos X

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	15	49	735
	2	5.0	4	82	328
	3	5.0	4	52	208
	4	5.0	3	380	1140
	5	5.0	4	96	384
	6	5.0	4	824	3296
CA50	7	8.0	4	196	784
	8	8.0	19	81	1539
	9	8.0	41	91	3731
	10	8.0	32	VAR	VAR
	11	8.0	2	878	1756
	12	8.0	2	54	109
	13	8.0	5	VAR	VAR
	14	8.0	39	97	3783
	15	8.0	2	437	874

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	178.6	77.5
CA60	5.0	61.5	10.4
PESO TOTAL (kg)			
CA50	77.5		
CA60	10.4		

Volume de concreto (C-30) = 0.80 m³
Área de forma = 8.08 m²

FCK 30MPa
TRAÇO: 1:2:2
1 SACO DE CIMENTO
2 CARRINHO DE MÃO RASO DE BRITA 3/4"
2 CARRINHO DE MÃO RASO DE AREIA LAVADA

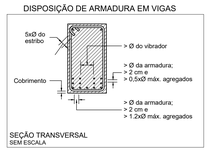
TODO LANÇAMENTO DO CONCRETO SERÁ VIBRADO COM VIBRADOR 40mm

CONSUMO DE ÁGUA POR TRAÇO = 23LITROS
MAIS DEVE-SE OBSERVAR A UMIDADE DA AREIA PODENDO VARIAR DE 23LITROS OU MENOS

É DE INTEIRA RESPONSABILIDADE DO PROPRIETARIO QUE O MESTRE DE OBRAS, SIGA CORRETAMENTE AS MEDIDAS INFORMADAS NESSE PROJETO ACIMA RETROCITADO, CASO CONTRARIO O AUTOR DESSE PROJETO, PODERÁ RESPONSABILIZAR O MESMO.

DEVE-SE ASSENTAR AS SAPATAS EM SOLO FIRME INDEPENDENTE DA PROFUNDIDADE DAS MESMA.

DISPOSIÇÃO DE ARMADURA EM VIGAS

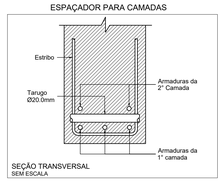


SEÇÃO TRANSVERSAL
SEM ESCALA

GRAMPO CONTRA FLAMBAGEM

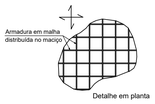
SEÇÃO TRANSVERSAL
SEM ESCALA

ESPAÇADOR PARA CAMADAS

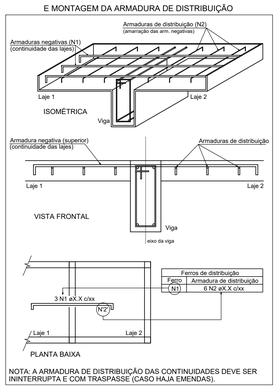


SEÇÃO TRANSVERSAL
SEM ESCALA

DETALHE DA ARMADURA DE MALHA BASE

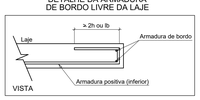


DETALHE DA ARMADURA SUPERIOR DE CONTINUIDADE DA LAJE E MONTAGEM DA ARMADURA DE DISTRIBUIÇÃO



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

DETALHE DA ARMADURA DE BORDO LIVRE DA LAJE



DIÂMETRO MÍNIMO (di) DOS PINOS DE DOBRAMENTO

Diâmetro mínimo (di) dos pinos de dobramento				
Bitola (Ø)	Longitudinais		Estribos	
	CA50	CA60	CA50	CA60
≤10mm	5xØ	6xØ	3xØ	3xØ
≤20mm	5xØ	6xØ	5xØ	—
≥20mm	8xØ	—	8xØ	—

NBR 6118:2014 (item 9.4)

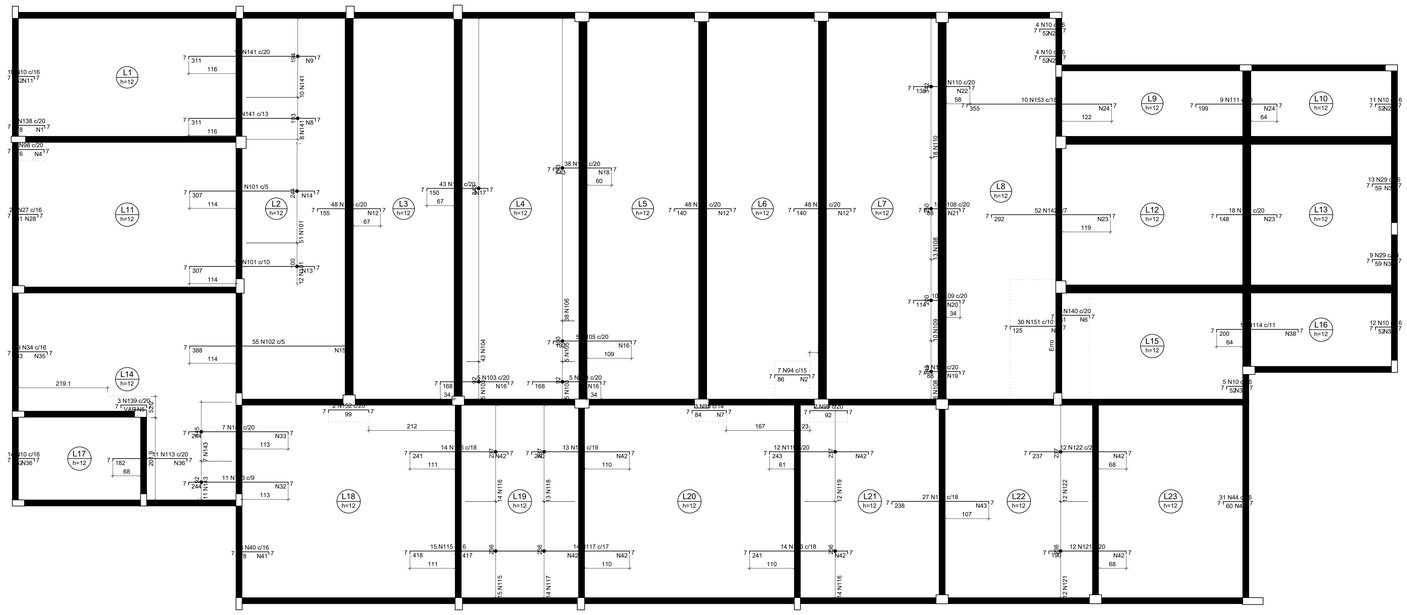
RAIO (r) DE CURVATURA DAS ARMADURAS

Raio mínimo (r) de curvatura das armaduras				
Bitola (Ø)	Longitudinais		Estribos	
	CA50	CA60	CA50	CA60
≤10mm	2.5xØ	3xØ	1.5xØ	1.5xØ
≤20mm	2.5xØ	3xØ	2.5xØ	—
≥20mm	4xØ	—	4xØ	—

NBR 6118:2014 (item 9.4)

Armação positiva das lajes do pavimento MARQUISE (Eixo Y)

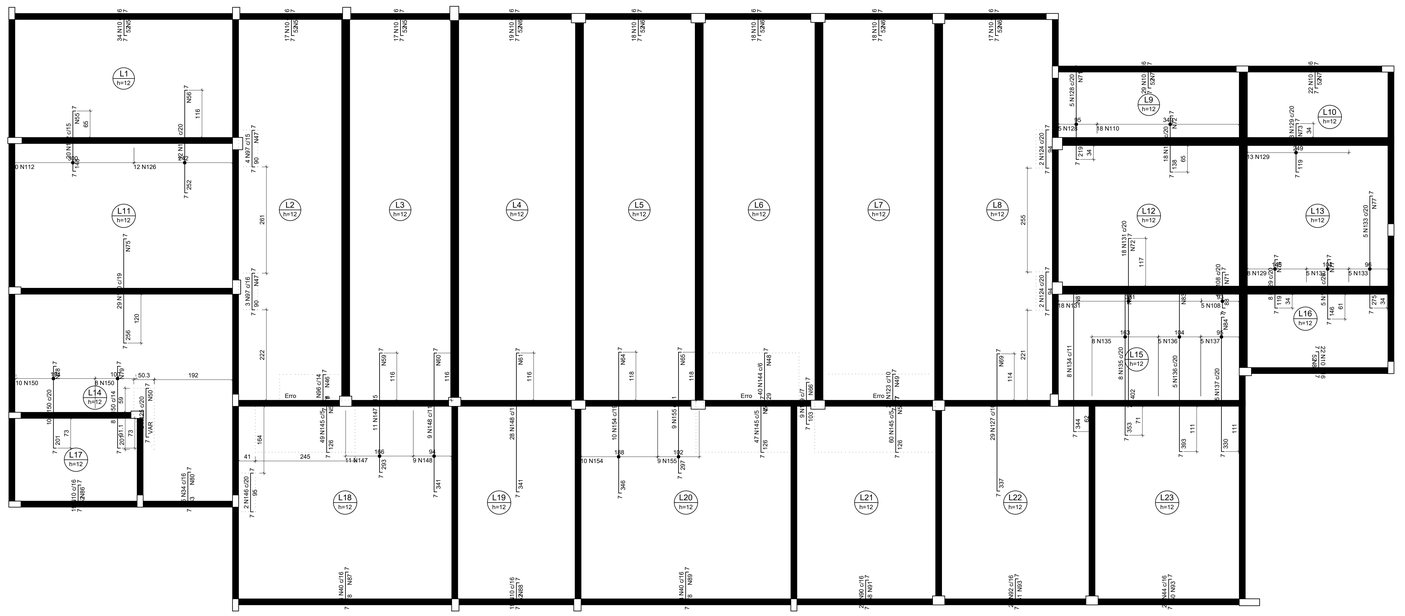
escala 1:50



Armaduras de distribuição	
Armadura	Armadura de distribuição
N138	4 N1 ø5.0 c/20 C=43
N94	5 N2 ø5.0 c/20 C=93
N151	16 N3 ø5.0 c/8 C=293
N98	4 N4 ø5.0 c/20 C=45
N139	4 N5 ø5.0 c/20 C=VAR
N140	4 N6 ø5.0 c/20 C=260
N95	5 N7 ø5.0 c/20 C=41
N141	20 N8 ø5.0 c/16 C=103
N141	16 N9 ø5.0 c/20 C=201
N10	3 N11 ø5.0 c/20 C=309
N100	8 N12 ø5.0 c/20 C=950
N101	17 N13 ø5.0 c/19 C=116
N101	35 N14 ø5.0 c/9 C=254
N102	44 N15 ø5.0 c/9 C=275
N103	9 N16 ø5.0 c/20 C=100
N104	8 N17 ø5.0 c/20 C=850
N103	9 N16 ø5.0 c/20 C=100
N105	10 N15 ø5.0 c/20 C=100
N106	8 N18 ø5.0 c/20 C=750
N107	7 N12 ø5.0 c/20 C=950
N107	7 N12 ø5.0 c/20 C=950
N108	5 N19 ø5.0 c/20 C=150
N109	6 N20 ø5.0 c/20 C=200
N108	5 N21 ø5.0 c/20 C=250
N110	7 N22 ø5.0 c/20 C=350
N142	37 N23 ø5.0 c/8 C=365
N153	26 N24 ø5.0 c/14 C=178
N10	3 N25 ø5.0 c/20 C=66
N10	3 N26 ø5.0 c/20 C=68
N111	10 N24 ø5.0 c/20 C=178
N10	3 N24 ø5.0 c/20 C=178
N27	3 N28 ø5.0 c/20 C=369
N112	8 N23 ø5.0 c/20 C=365
N29	3 N30 ø5.0 c/20 C=145
N29	3 N31 ø5.0 c/20 C=214
N143	23 N32 ø5.0 c/11 C=102
N143	13 N33 ø5.0 c/20 C=146
N34	5 N35 ø5.0 c/20 C=307
N113	10 N36 ø5.0 c/20 C=218
N10	3 N37 ø5.0 c/20 C=78
N114	10 N38 ø5.0 c/20 C=199
N10	3 N39 ø5.0 c/20 C=187
N10	3 N36 ø5.0 c/20 C=218
N40	4 N41 ø5.0 c/20 C=249
N115	21 N42 ø5.0 c/20 C=244
N116	12 N42 ø5.0 c/20 C=244
N117	21 N42 ø5.0 c/20 C=244
N118	12 N42 ø5.0 c/20 C=244
N116	12 N42 ø5.0 c/20 C=244
N119	13 N42 ø5.0 c/20 C=244
N120	12 N43 ø5.0 c/20 C=488
N121	10 N42 ø5.0 c/20 C=244
N122	12 N42 ø5.0 c/20 C=244
N44	3 N45 ø5.0 c/20 C=489

Armação negativa das lajes do pavimento COBERTA (Eixo X)

escala 1:50



Armaduras de distribuição	
Armadura	Armadura de distribuição
N96	4 N46 ø5.0 c/20 C=152
N97	5 N47 ø5.0 c/20 C=47
N97	5 N47 ø5.0 c/20 C=47
N144	19 N48 ø5.0 c/7 C=235
N123	4 N49 ø5.0 c/19 C=274
N125	6 N50 ø5.0 c/20 C=VAR
N145	21 N51 ø5.0 c/6 C=245
N145	21 N52 ø5.0 c/6 C=233
N145	21 N53 ø5.0 c/6 C=297
N10	3 N54 ø5.0 c/20 C=551
N112	8 N55 ø5.0 c/20 C=300
N126	13 N56 ø5.0 c/20 C=250
N10	3 N57 ø5.0 c/20 C=271
N10	3 N58 ø5.0 c/20 C=264
N147	17 N59 ø5.0 c/18 C=166
N148	27 N60 ø5.0 c/13 C=101
N148	27 N61 ø5.0 c/13 C=303
N10	3 N62 ø5.0 c/20 C=302
N10	3 N63 ø5.0 c/20 C=289
N154	23 N64 ø5.0 c/15 C=192
N155	38 N65 ø5.0 c/8 C=102
N10	3 N63 ø5.0 c/20 C=289
N149	13 N66 ø5.0 c/8 C=62
N10	3 N67 ø5.0 c/20 C=294
N10	3 N68 ø5.0 c/20 C=279
N127	18 N69 ø5.0 c/19 C=287
N10	3 N70 ø5.0 c/20 C=456
N128	11 N71 ø5.0 c/20 C=103
N110	7 N72 ø5.0 c/20 C=359
N129	6 N73 ø5.0 c/20 C=259
N10	3 N74 ø5.0 c/20 C=352
N130	13 N75 ø5.0 c/20 C=549
N131	21 N72 ø5.0 c/20 C=359
N108	5 N71 ø5.0 c/20 C=103
N129	6 N76 ø5.0 c/20 C=155
N132	8 N77 ø5.0 c/20 C=104
N133	14 N77 ø5.0 c/20 C=104
N150	10 N78 ø5.0 c/20 C=204
N150	12 N79 ø5.0 c/17 C=111
N34	5 N80 ø5.0 c/20 C=234
N134	18 N81 ø5.0 c/20 C=90
N135	18 N82 ø5.0 c/20 C=163
N136	20 N83 ø5.0 c/20 C=104
N137	17 N84 ø5.0 c/20 C=102
N10	3 N85 ø5.0 c/20 C=355
N10	3 N86 ø5.0 c/20 C=305
N40	4 N87 ø5.0 c/20 C=540
N10	3 N88 ø5.0 c/20 C=300
N40	4 N89 ø5.0 c/20 C=532
N90	3 N91 ø5.0 c/20 C=353
N92	3 N93 ø5.0 c/20 C=371
N44	3 N93 ø5.0 c/20 C=371

Armação negativa das lajes do pavimento COBERTA (Eixo Y)

escala 1:50

		Vigas	Pilares	Lajes	Escadas	Fundações	Reservatórios	Total
Peso total + 10% (kg)	CA50	4776.1	3628.4	2735.7		737.8		11878.1
	CA60	857.8	616.1	900.9				2374.8
	Total	5633.9	4244.5	3636.6		737.8		14252.9
Volume concreto (m³)	C-30			49.6				49.6
	C-30	72.5	24.8			22.8		120.2
	Total	72.5	24.8	49.6		22.8		169.8
Área de forma (m²)		1066.3	416.9	415.1		47.9		1946.1
Consumo de aço (kg/m³)		77.7	170.9	73.3		32.4		84.0

CARIMBOS

PREFEITURA MUN. DE GIRAU DO PONCIANO
SEC. DE OBRAS E URBANISMO
SEOBRAS

ÁREAS:

ÁREA DO TERRENO: 2.030,00m²
ÁREA CONSTRUÍDA: 2.030,00m²

PROJETO:
Construção de uma Praça

ENDEREÇO:
Girau do Ponciano - AL

ETAPA:
ESTRUTURAL

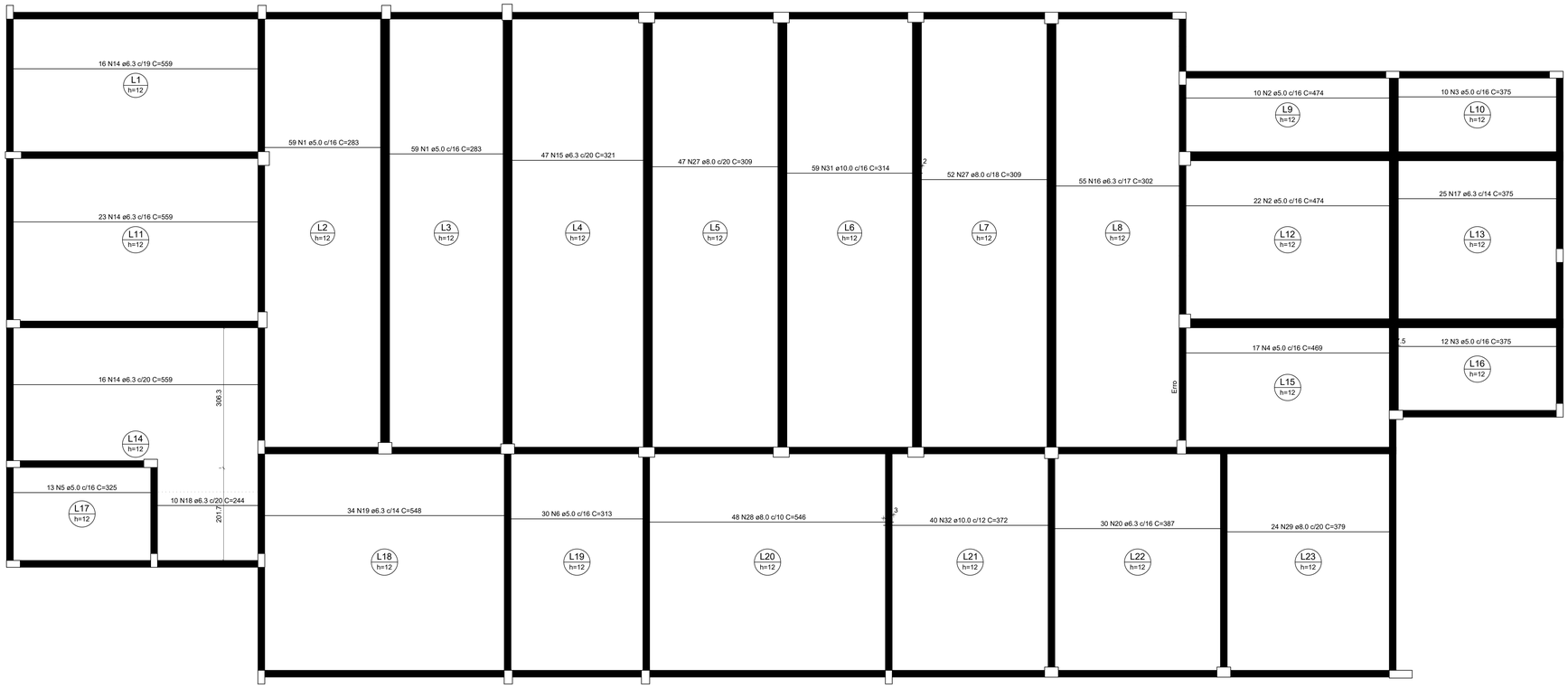
Responsável Técnico:
Arquiteto e Urbanista: Taffarel Oliveira - CAU: 176614-7

PROPRIETÁRIO:
Prefeitura Mun. de Girau do Ponciano - CNPJ: 12.207.536/0001-61

DATA:
Julho/2018

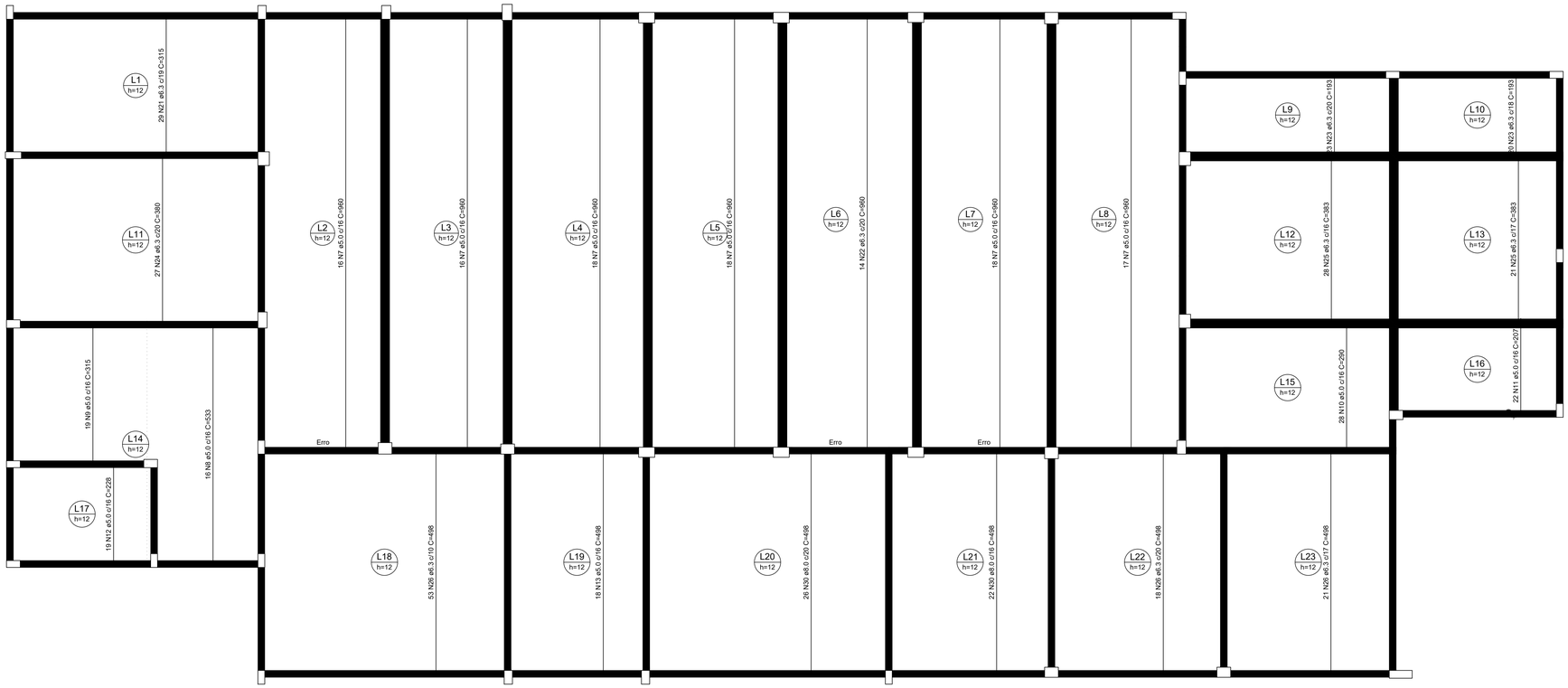
PRANCHA:
13/18

FERRAGEM DA LAJE COBERTA



Armação positiva das lajes do pavimento COBERTA (Eixo X)

escala 1:50



Armação positiva das lajes do pavimento COBERTA (Eixo Y)

escala 1:50

RELAÇÃO DO AÇO

Positivos X Positivos Y

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	118	283	33394
	2	5.0	32	474	15168
	3	5.0	22	375	8250
	4	5.0	17	469	7973
	5	5.0	13	325	4225
	6	5.0	30	313	9390
	7	5.0	103	960	98880
	8	5.0	16	533	8528
	9	5.0	19	315	5985
	10	5.0	28	290	8120
	11	5.0	22	207	4554
	12	5.0	19	228	4332
	13	5.0	18	498	8964
CA50	14	6.3	55	559	30745
	15	6.3	47	321	15087
	16	6.3	55	302	16610
	17	6.3	25	375	9375
	18	6.3	10	244	2440
	19	6.3	34	548	18632
	20	6.3	30	387	11610
	21	6.3	29	315	9135
	22	6.3	14	960	13440
	23	6.3	43	193	8299
	24	6.3	27	380	10260
	25	6.3	49	383	18767
	26	6.3	92	498	45816
	27	8.0	99	309	30591
	28	8.0	48	546	26208
	29	8.0	24	379	9096
	30	8.0	48	498	23904
	31	10.0	59	314	18526
	32	10.0	40	372	14880

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	2102.2	565.8
	8.0	898	389.8
	10.0	334.1	226.6
CA60	5.0	2177.6	369.2

PESO TOTAL (kg)	
CA50	1182.2
CA60	369.2

Volume de concreto (C-30) = 48.80 m³
Área de forma = 407.00 m²

CARIMBOS

PREFEITURA MUN. DE GIRAU DO PONCIANO
SEC. DE OBRAS E URBANISMO
SEOBRAS

ÁREAS:

ÁREA DO TERRENO: 2.030,00m²
ÁREA CONSTRUÍDA: 2.030,00m²

PROJETO:
Construção de uma Praça

ENDEREÇO:
Girau do Ponciano - AL

ETAPA:
ESTRUTURAL

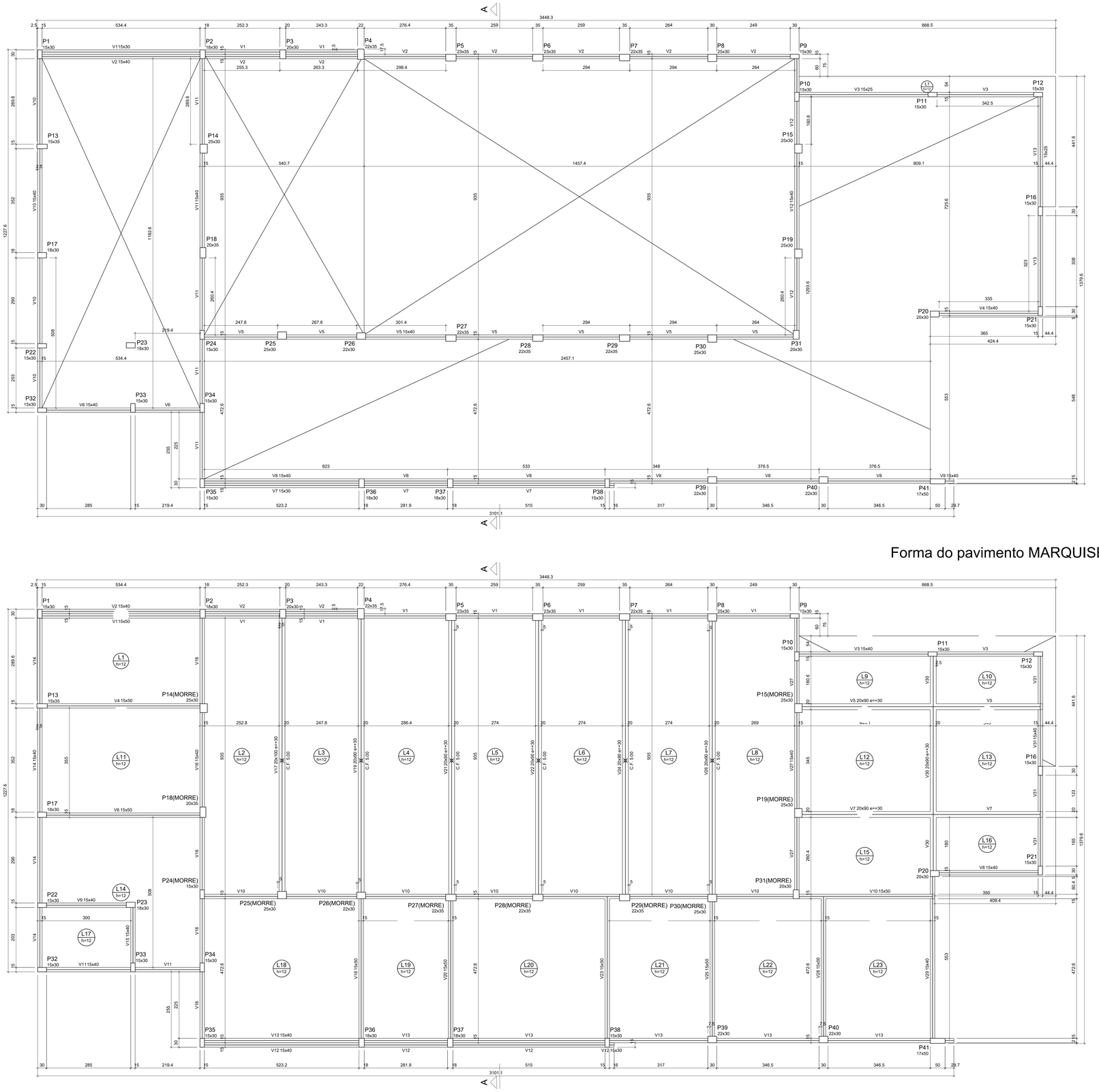
Responsável Técnico:
Arquiteto e Urbanista: Taffarel Oliveira - CAU: 176614-7

PROPRIETÁRIO:
Prefeitura Mun. de Girau do Ponciano - CNPJ: 12.207.536/0001-61

DATA: Julho/2018

PRANCHA: 14/18

FERRAGEM DA LAJE COBERTA



Forma do pavimento MARQUISE (Nível 390)

escala 1:50

Forma do pavimento COBERTA (Nível 790)

escala 1:50

Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
V1	15x30	0	390
V2	15x40	0	390
V3	15x25	0	390
V4	15x40	0	390
V5	15x40	0	390
V6	15x40	0	390
V7	15x40	0	390
V8	15x40	0	390
V9	15x40	0	390
V10	15x40	0	390
V11	15x40	0	390
V12	15x40	0	390
V13	15x25	0	390

Lajes							
Nome	Tipo	Altura (cm)	Elevação (cm)	Nível (cm)	Peso próprio (kgf/m²)	Sobrecarga (kgf/m²) Adicional	Acidental	Localizada
L1	Maciça	12	0	390	300	50	50	-

Características dos materiais		
Elemento	fck (kgf/cm²)	Ecs (kgf/cm²)
Vigas	300	268384
Pilares	300	268384
Lajes	250	241500

Dimensão máxima do agregado = 19 mm

Pilares			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P1	15x30	0	390
P2	18x30	0	390
P3	20x30	0	390
P4	22x35	0	390
P5	23x35	0	390
P6	23x35	0	390
P7	22x35	0	390
P8	25x30	0	390
P9	15x30	0	390
P10	15x30	0	390
P11	15x30	0	390
P12	15x30	0	390
P13	15x35	0	390
P14	25x30	0	390
P15	25x30	0	390
P16	15x30	0	390
P17	18x30	0	390
P18	20x35	0	390
P19	25x30	0	390
P20	20x30	0	390
P21	15x30	0	390
P22	15x30	0	390
P23	18x30	0	390
P24	15x30	0	390
P25	25x30	0	390
P26	22x30	0	390
P27	22x35	0	390
P28	22x35	0	390
P29	22x35	0	390
P30	25x30	0	390
P31	20x30	0	390
P32	15x30	0	390
P33	15x30	0	390
P34	15x30	0	390
P35	15x30	0	390
P36	18x30	0	390
P37	18x30	0	390
P38	15x30	0	390
P39	22x30	0	390
P40	22x30	0	390
P41	17x50	0	390

Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
V1	15x50	0	790
V2	15x40	0	790
V3	15x40	0	790
V4	15x50	0	790
V5	20x90	30	820
V6	15x50	0	790
V7	20x90	30	820
V8	15x40	0	790
V9	15x40	0	790
V10	15x50	0	790
V11	15x40	0	790
V12	15x40	0	790
V13	15x30	0	790
V14	15x40	0	790
V15	15x40	0	790
V16	15x40	0	790
V17	20x100	30	820
V18	15x50	0	790
V19	20x90	30	820
V20	15x50	0	790
V21	20x90	30	820
V22	20x90	30	820
V23	15x50	0	790
V24	20x90	30	820
V25	15x50	0	790
V26	20x90	30	820
V27	15x40	0	790
V28	15x50	0	790
V29	15x40	0	790
V30	20x90	30	820
V31	15x40	0	790

Lajes								
Nome	Tipo	Altura (cm)	Elevação (cm)	Nível (cm)	Peso próprio (kgf/m²)	Sobrecarga (kgf/m²) Adicional	Acidental	Localizada
L1	Maciça	12	0	790	300	182	300	-
L2	Maciça	12	0	790	300	182	300	-
L3	Maciça	12	0	790	300	182	300	-
L4	Maciça	12	0	790	300	182	300	-
L5	Maciça	12	0	790	300	182	300	-
L6	Maciça	12	0	790	300	182	300	-
L7	Maciça	12	0	790	300	182	300	-
L8	Maciça	12	0	790	300	182	300	-
L9	Maciça	12	0	790	300	182	300	-
L10	Maciça	12	0	790	300	182	300	-
L11	Maciça	12	0	790	300	182	300	-
L12	Maciça	12	0	790	300	182	300	-
L13	Maciça	12	0	790	300	182	300	-
L14	Maciça	12	0	790	300	182	300	-
L15	Maciça	12	0	790	300	182	300	-
L16	Maciça	12	0	790	300	182	300	-
L17	Maciça	12	0	790	300	182	300	-
L18	Maciça	12	0	790	300	182	300	-
L19	Maciça	12	0	790	300	182	300	-
L20	Maciça	12	0	790	300	182	300	-
L21	Maciça	12	0	790	300	182	300	-
L22	Maciça	12	0	790	300	182	300	-
L23	Maciça	12	0	790	300	182	300	-

Características dos materiais		
Elemento	fck (kgf/cm²)	Ecs (kgf/cm²)
Vigas	300	268384
Pilares	300	268384
Lajes	250	241500

Dimensão máxima do agregado = 19 mm

Pilares			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P1	15x30	0	790
P2	18x30	0	790
P3	20x30	0	790
P4	22x35	0	790
P5	23x35	0	790
P6	23x35	0	790
P7	22x35	0	790
P8	25x30	0	790
P9	15x30	0	790
P10	15x30	0	790
P11	15x30	0	790
P12	15x30	0	790
P13	15x35	0	790
P14	25x30	0	790
P15	25x30	0	790
P16	15x30	0	790
P17	18x30	0	790
P18	20x35	0	790
P19	25x30	0	790
P20	20x30	0	790
P21	15x30	0	790
P22	15x30	0	790
P23	18x30	0	790
P24	15x30	0	790
P25	25x30	0	790
P26	22x30	0	790
P27	22x35	0	790
P28	22x35	0	790
P29	22x35	0	790
P30	25x30	0	790
P31	20x30	0	790
P32	15x30	0	790
P33	15x30	0	790
P34	15x30	0	790
P35	15x30	0	790
P36	18x30	0	790
P37	18x30	0	790
P38	15x30	0	790
P39	22x30	0	790
P40	22x30	0	790
P41	17x50	0	790

CARIMBOS

PREFEITURA MUN. DE GIRAU DO PONCIANO
SEC. DE OBRAS E URBANISMO
SEOBRAS

ÁREAS:

ÁREA DO TERRENO: 2.030,00m²

ÁREA CONSTRUÍDA: 2.030,00m²

PROJETO:
Construção de uma Praça

ENDEREÇO:
Girau do Ponciano - AL

ETAPA:
ESTRUTURAL

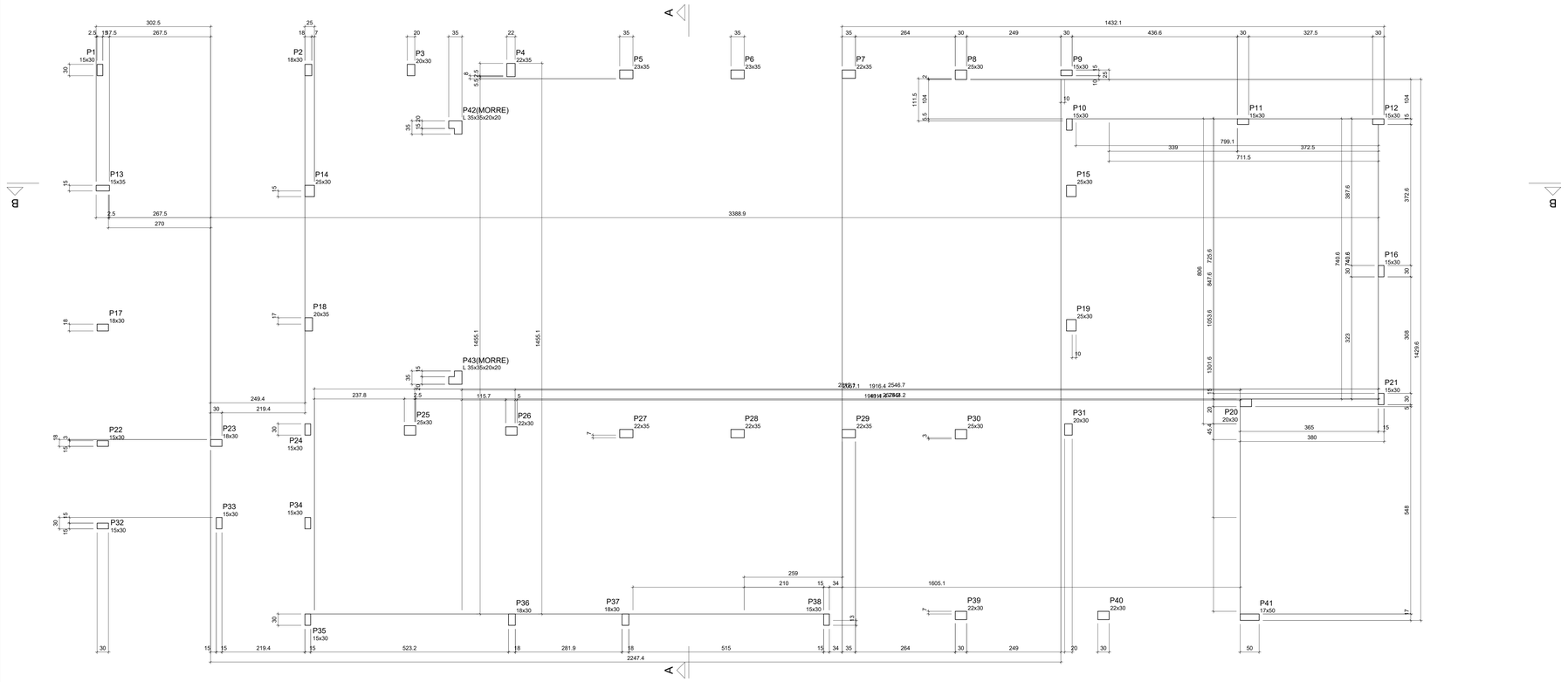
Responsável Técnico:
Arquiteto e Urbanista: Taffarel Oliveira - CAU: 176614-7

PROPRIETÁRIO:
Prefeitura Mun. de Girau do Ponciano - CNPJ: 12.207.536/0001-61

DATA:
Julho/2018

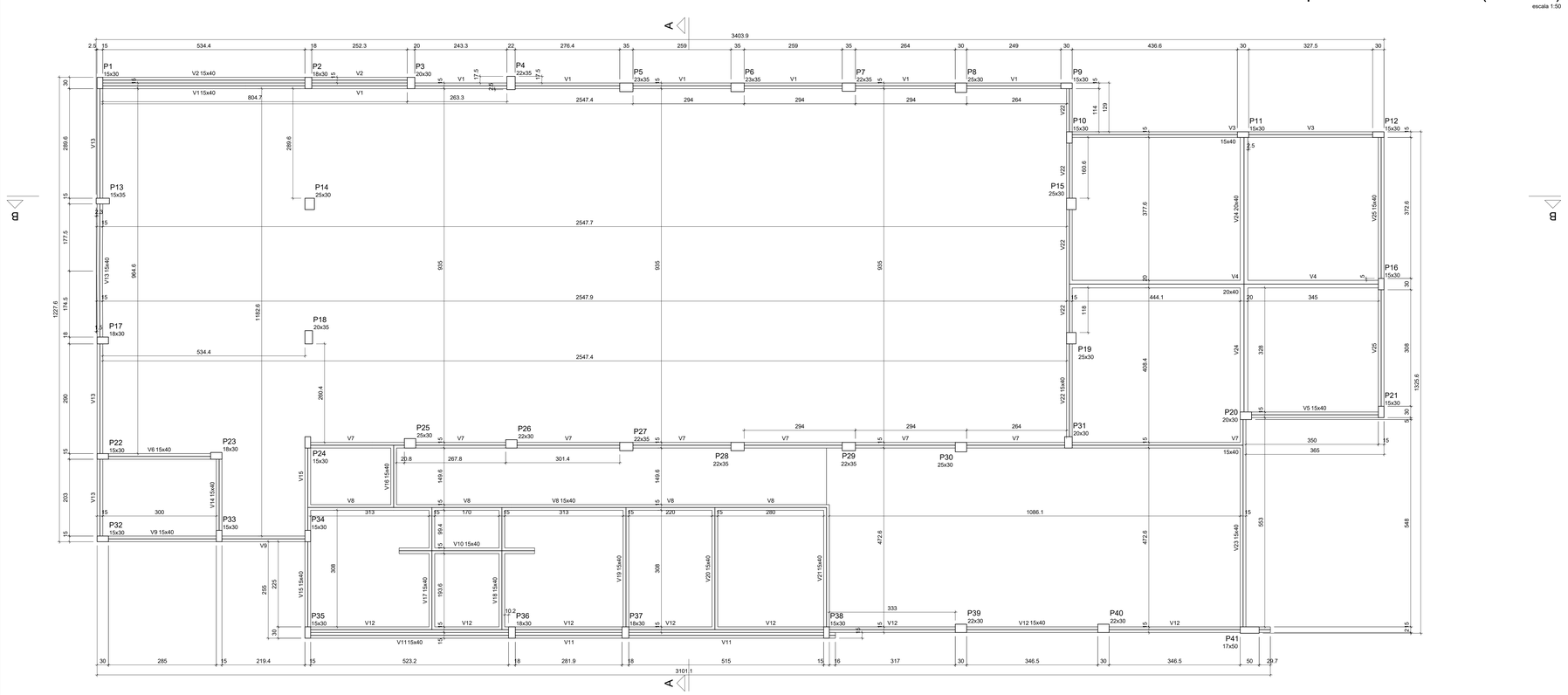
PRANCHA:
16/18

FORMA MARQUISE
FORMA COBERTA



Forma do pavimento COTA 90 (Nível 90)

escala 1:50



Forma do pavimento COTA 140 (Nível 140)

escala 1:50

Características dos materiais	
fck (kgf/cm²)	Ecs (kgf/cm²)
300	268384

Dimensão máxima do agregado = 19 mm

Pilares			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P1	15x30	0	90
P2	18x30	0	90
P3	20x30	0	90
P4	22x35	0	90
P5	23x35	0	90
P6	23x35	0	90
P7	22x35	0	90
P8	25x30	0	90
P9	15x30	0	90
P10	15x30	0	90
P11	15x30	0	90
P12	15x30	0	90
P13	15x35	0	90
P14	25x30	0	90
P15	25x30	0	90
P16	15x30	0	90
P17	18x30	0	90
P18	20x35	0	90
P19	25x30	0	90
P20	20x30	0	90
P21	15x30	0	90
P22	15x30	0	90
P23	18x30	0	90
P24	15x30	0	90
P25	25x30	0	90
P26	22x30	0	90
P27	22x35	0	90
P28	22x35	0	90
P29	22x35	0	90
P30	25x30	0	90
P31	20x30	0	90
P32	15x30	0	90
P33	15x30	0	90
P34	15x30	0	90
P35	15x30	0	90
P36	18x30	0	90
P37	18x30	0	90
P38	15x30	0	90
P39	22x30	0	90
P40	22x30	0	90
P41	17x50	0	90
P42	L 35x35x20x20	0	90
P43	L 35x35x20x20	0	90

Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
V1	15x40	0	140
V2	15x40	0	140
V3	15x40	0	140
V4	20x40	0	140
V5	15x40	0	140
V6	15x40	0	140
V7	15x40	0	140
V8	15x40	0	140
V9	15x40	0	140
V10	15x40	0	140
V11	15x40	0	140
V12	15x40	0	140
V13	15x40	0	140
V14	15x40	0	140
V15	15x40	0	140
V16	15x40	0	140
V17	15x40	0	140
V18	15x40	0	140
V19	15x40	0	140
V20	15x40	0	140
V21	15x40	0	140
V22	15x40	0	140
V23	15x40	0	140
V24	20x40	0	140
V25	15x40	0	140

Características dos materiais	
fck (kgf/cm²)	Ecs (kgf/cm²)
300	268384

Dimensão máxima do agregado = 19 mm

Pilares			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P1	15x30	0	140
P2	18x30	0	140
P3	20x30	0	140
P4	22x35	0	140
P5	23x35	0	140
P6	23x35	0	140
P7	22x35	0	140
P8	25x30	0	140
P9	15x30	0	140
P10	15x30	0	140
P11	15x30	0	140
P12	15x30	0	140
P13	15x35	0	140
P14	25x30	0	140
P15	25x30	0	140
P16	15x30	0	140
P17	18x30	0	140
P18	20x35	0	140
P19	25x30	0	140
P20	20x30	0	140
P21	15x30	0	140
P22	15x30	0	140
P23	18x30	0	140
P24	15x30	0	140
P25	25x30	0	140
P26	22x30	0	140
P27	22x35	0	140
P28	22x35	0	140
P29	22x35	0	140
P30	25x30	0	140
P31	20x30	0	140
P32	15x30	0	140
P33	15x30	0	140
P34	15x30	0	140
P35	15x30	0	140
P36	18x30	0	140
P37	18x30	0	140
P38	15x30	0	140
P39	22x30	0	140
P40	22x30	0	140
P41	17x50	0	140

CARIMBOS

PREFEITURA MUN. DE GIRAU DO PONCIANO
SEC. DE OBRAS E URBANISMO
SEOBRAS

ÁREAS:

ÁREA DO TERRENO: 2.030,00m²

ÁREA CONSTRUÍDA: 2.030,00m²

PROJETO:
Construção de uma Praça

ENDEREÇO:
Girau do Ponciano - AL

ETAPA:
ESTRUTURAL

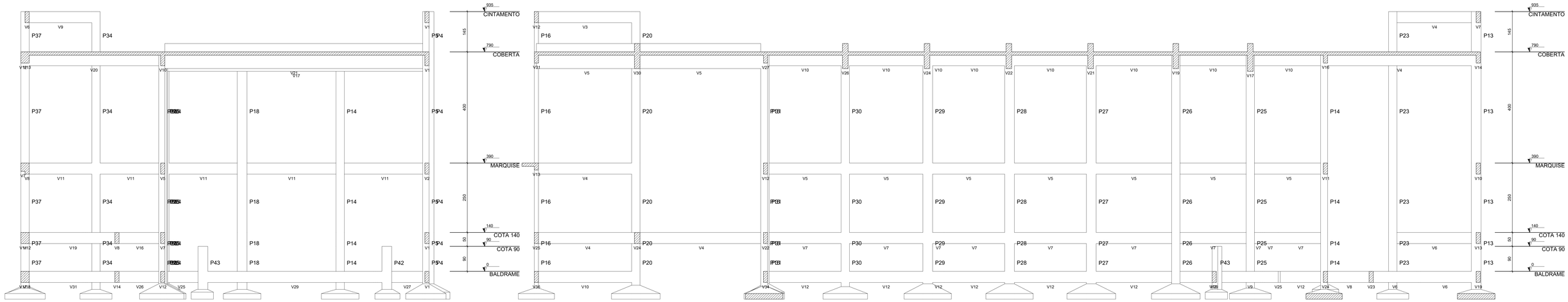
Responsável Técnico:
Arquiteto e Urbanista: Taffarel Oliveira - CAU: 176614-7

PROPRIETÁRIO:
Prefeitura Mun. de Girau do Ponciano - CNPJ: 12.207.536/0001-61

DATA: Julho/2018

PRANCHA: 17/18

FORMA COTA 90, E COTA 140



Corte A-A

escala 1:50

Corte B-B

escala 1:50

Forma do pavimento BALDRAME (Nível 0)

escala 1:50

Vigas

Nome	Seção (cm)	Elevação (cm)	Nível (cm)
V1	15x40	0	0
V2	15x40	0	0
V3	15x40	0	0
V4	15x40	0	0
V5	15x40	0	0
V6	15x40	0	0
V7	15x40	0	0
V8	15x40	0	0
V9	15x40	0	0
V10	15x40	0	0
V11	15x40	0	0
V12	15x40	0	0
V13	15x40	0	0
V14	15x40	0	0
V15	15x40	0	0
V16	15x40	0	0
V17	15x40	0	0
V18	18x40	0	0
V19	15x40	0	0
V20	15x40	0	0
V21	15x40	0	0
V22	15x40	0	0
V23	15x40	0	0
V24	15x40	0	0
V25	15x40	0	0
V26	15x40	0	0
V27	15x40	0	0
V28	15x40	0	0
V29	15x40	0	0
V30	15x40	0	0
V31	15x40	0	0
V32	15x40	0	0
V33	15x40	0	0
V34	15x40	0	0
V35	15x40	0	0
V36	15x40	0	0

Características dos materiais	
fck (kgf/cm²)	Ecs (kgf/cm²)
300	268384

Dimensão máxima do agregado = 19 mm

Pilares

Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P1	15x30	0	0
P2	18x30	0	0
P3	20x30	0	0
P4	22x35	0	0
P5	23x35	0	0
P6	23x35	0	0
P7	22x35	0	0
P8	25x30	0	0
P9	15x30	0	0
P10	15x30	0	0
P11	15x30	0	0
P12	15x30	0	0
P13	15x35	0	0
P14	25x30	0	0
P15	25x30	0	0
P16	15x30	0	0
P17	18x30	0	0
P18	20x35	0	0
P19	25x30	0	0
P20	20x30	0	0
P21	15x30	0	0
P22	15x30	0	0
P23	18x30	0	0
P24	15x30	0	0
P25	25x30	0	0
P26	22x30	0	0
P27	22x35	0	0
P28	22x35	0	0
P29	22x35	0	0
P30	25x30	0	0
P31	20x30	0	0
P32	15x30	0	0
P33	15x30	0	0
P34	15x30	0	0
P35	15x30	0	0
P36	18x30	0	0
P37	18x30	0	0
P38	15x30	0	0
P39	22x30	0	0
P40	22x30	0	0
P41	17x50	0	0
P42	L 35x35x20x20	0	0
P43	L 35x35x20x20	0	0

CARIMBOS

PREFEITURA MUN. DE GIRAU DO PONCIANO
SEC. DE OBRAS E URBANISMO
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PROPRIETÁRIO:
Prefeitura Mun. de Girau do Ponciano - CNPJ: 12.207.536/0001-61

DATA:
Julho/2018

PRANCHA:
18/18

FORMA BALDRAME, CORTE AA E BB