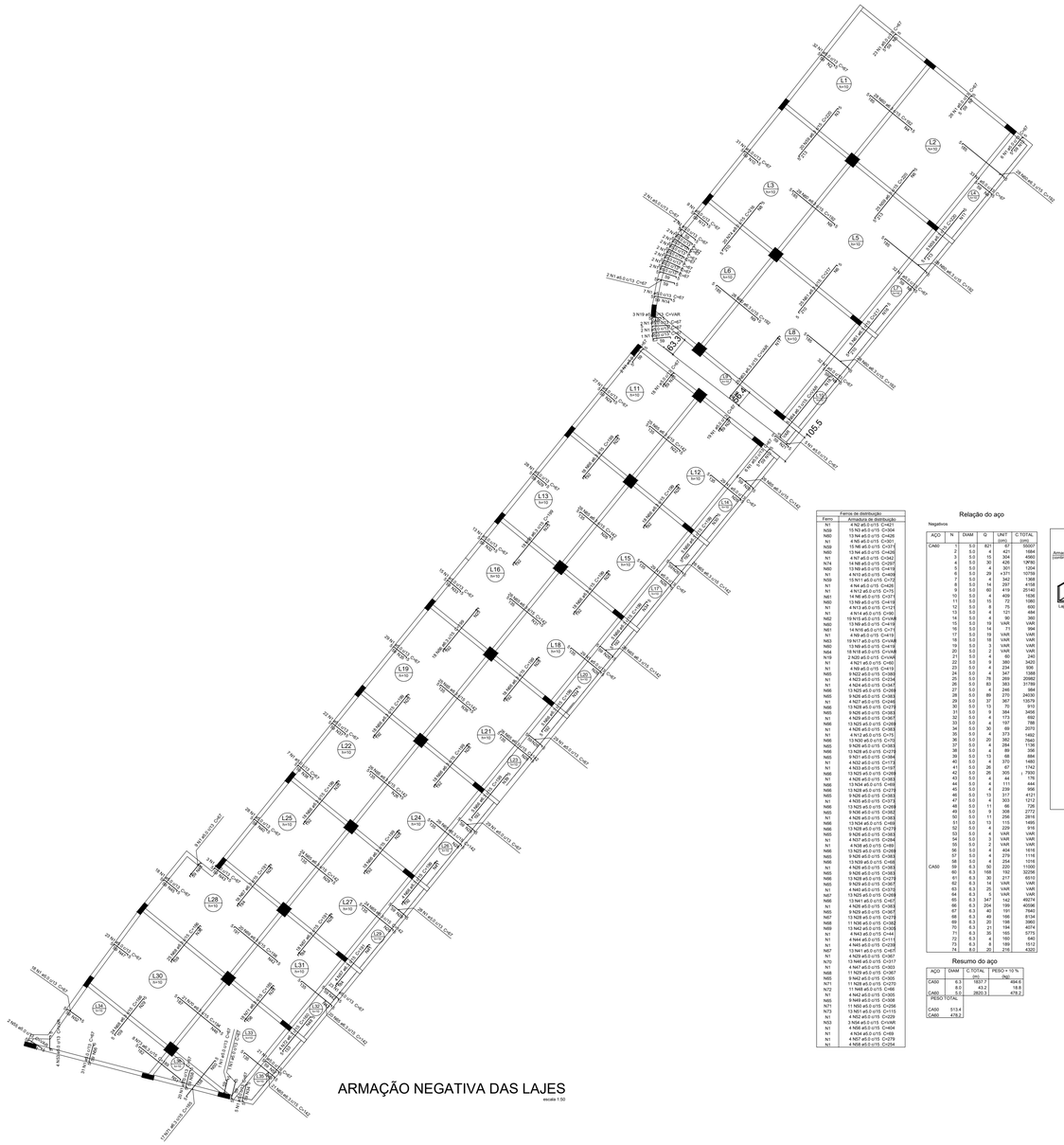


ARMAÇÃO NEGATIVA DAS LAJES

escala 1:50

Ferros de distribuição	
Ferro	Armadura de distribuição
N1	4 N2 ø5.0 c/15 C=621
N59	15 N3 ø5.0 c/15 C=304
N60	13 N4 ø5.0 c/15 C=626
N1	4 N5 ø5.0 c/15 C=1000
N59	15 N6 ø5.0 c/15 C=371
N60	13 N4 ø5.0 c/15 C=626
N1	4 N7 ø5.0 c/15 C=342
N74	14 N8 ø5.0 c/15 C=297
N60	13 N9 ø5.0 c/15 C=619
N1	4 N10 ø5.0 c/15 C=608
N59	15 N11 ø5.0 c/15 C=304
N1	4 N4 ø5.0 c/15 C=626
N1	4 N12 ø5.0 c/15 C=75
N61	14 N6 ø5.0 c/15 C=371
N60	13 N9 ø5.0 c/15 C=619
N1	4 N13 ø5.0 c/15 C=1000
N1	4 N14 ø5.0 c/15 C=621
N62	19 N15 ø5.0 c/15 C=VAR
N60	13 N9 ø5.0 c/15 C=619
N61	14 N16 ø5.0 c/15 C=71
N1	4 N5 ø5.0 c/15 C=619
N53	19 N17 ø5.0 c/15 C=VAR
N59	15 N3 ø5.0 c/15 C=304
N54	18 N18 ø5.0 c/15 C=VAR
N19	2 N20 ø5.0 c/15 C=VAR
N1	4 N21 ø5.0 c/15 C=60
N1	4 N9 ø5.0 c/15 C=619
N55	9 N22 ø5.0 c/15 C=VAR
N1	4 N23 ø5.0 c/15 C=234
N1	4 N24 ø5.0 c/15 C=347
N66	13 N25 ø5.0 c/15 C=VAR
N65	9 N26 ø5.0 c/15 C=383
N1	4 N27 ø5.0 c/15 C=VAR
N56	13 N28 ø5.0 c/15 C=275
N65	9 N29 ø5.0 c/15 C=367
N1	4 N25 ø5.0 c/15 C=357
N66	13 N25 ø5.0 c/15 C=209
N1	4 N26 ø5.0 c/15 C=383
N66	13 N34 ø5.0 c/15 C=66
N66	13 N28 ø5.0 c/15 C=275
N1	4 N29 ø5.0 c/15 C=367
N66	13 N25 ø5.0 c/15 C=209
N1	4 N26 ø5.0 c/15 C=383
N65	9 N36 ø5.0 c/15 C=382
N1	4 N28 ø5.0 c/15 C=383
N56	13 N34 ø5.0 c/15 C=66
N65	9 N29 ø5.0 c/15 C=367
N55	9 N36 ø5.0 c/15 C=382
N1	4 N37 ø5.0 c/15 C=294
N1	4 N38 ø5.0 c/15 C=69
N56	13 N25 ø5.0 c/15 C=209
N65	9 N26 ø5.0 c/15 C=383
N65	9 N29 ø5.0 c/15 C=367
N1	4 N39 ø5.0 c/15 C=383
N65	9 N26 ø5.0 c/15 C=383
N66	13 N28 ø5.0 c/15 C=275
N55	9 N29 ø5.0 c/15 C=367
N1	4 N40 ø5.0 c/15 C=370
N66	13 N41 ø5.0 c/15 C=407
N1	4 N26 ø5.0 c/15 C=383
N55	9 N29 ø5.0 c/15 C=367
N57	13 N28 ø5.0 c/15 C=275
N58	11 N26 ø5.0 c/15 C=382
N59	15 N42 ø5.0 c/15 C=92
N1	4 N43 ø5.0 c/15 C=111
N1	4 N44 ø5.0 c/15 C=111
N1	4 N45 ø5.0 c/15 C=239
N57	13 N41 ø5.0 c/15 C=407
N1	4 N29 ø5.0 c/15 C=367
N57	13 N28 ø5.0 c/15 C=275
N1	4 N47 ø5.0 c/15 C=333
N58	11 N29 ø5.0 c/15 C=367
N55	9 N42 ø5.0 c/15 C=305
N71	11 N28 ø5.0 c/15 C=270
N72	11 N48 ø5.0 c/15 C=66
N1	4 N42 ø5.0 c/15 C=305
N71	11 N28 ø5.0 c/15 C=270
N71	11 N50 ø5.0 c/15 C=290
N73	13 N51 ø5.0 c/15 C=115
N1	4 N52 ø5.0 c/15 C=229
N53	3 N54 ø5.0 c/15 C=VAR
N1	4 N55 ø5.0 c/15 C=VAR
N1	4 N34 ø5.0 c/15 C=66
N1	4 N57 ø5.0 c/15 C=279
N1	4 N58 ø5.0 c/15 C=254

Negativos

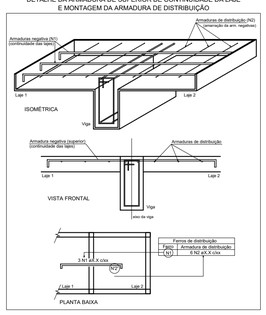
Relação do aço

AÇO	N	DIAM	Q	UNIT (m)	C.TOTAL (m)
CA50	1	5.0	621	67	35007
	2	5.0	4	421	1684
	3	5.0	10	304	4560
	4	5.0	30	426	13050
	5	5.0	4	1000	4000
	6	5.0	39	371	10759
	7	5.0	4	342	1368
	8	5.0	14	297	4158
	9	5.0	60	419	25140
	10	5.0	4	409	1636
	11	5.0	15	72	1080
	12	5.0	4	75	300
	13	5.0	4	121	484
	14	5.0	4	90	360
	15	5.0	10	VAR	VAR
	16	5.0	14	71	994
	17	5.0	4	VAR	VAR
	18	5.0	12	VAR	VAR
	19	5.0	3	VAR	VAR
	20	5.0	2	VAR	VAR
	21	5.0	4	60	240
	22	5.0	9	380	3420
	23	5.0	4	234	936
	24	5.0	4	347	1388
	25	5.0	78	269	20982
	26	5.0	83	383	31789
	27	5.0	4	246	984
	28	5.0	89	270	24030
	29	5.0	37	367	13579
	30	5.0	13	70	910
	31	5.0	9	394	3456
	32	5.0	4	173	692
	33	5.0	4	284	1136
	34	5.0	4	89	356
	35	5.0	4	373	1492
	36	5.0	20	362	7240
	37	5.0	4	284	1136
	38	5.0	4	89	356
	39	5.0	13	68	884
	40	5.0	4	111	444
	41	5.0	26	67	1742
	42	5.0	29	305	7930
	43	5.0	4	44	176
	44	5.0	4	111	444
	45	5.0	4	239	956
	46	5.0	13	317	4121
	47	5.0	4	303	1212
	48	5.0	11	66	726
	49	5.0	9	308	2772
	50	5.0	11	256	2816
	51	5.0	13	115	1495
	52	5.0	4	229	916
	53	5.0	4	VAR	VAR
	54	5.0	3	VAR	VAR
	55	5.0	2	VAR	VAR
	56	5.0	4	404	1616
	57	5.0	4	254	1016
	58	5.0	4	254	1016
CA50	59	6.3	50	220	11000
	60	6.3	158	182	32256
	61	6.3	30	217	6510
	62	6.3	14	VAR	VAR
	63	6.3	25	VAR	VAR
	64	6.3	4	142	568
	65	6.3	347	142	49274
	66	6.3	204	199	40596
	67	6.3	40	181	7240
	68	6.3	49	166	8134
	69	6.3	49	166	8134
	70	6.3	21	194	4074
	71	6.3	35	165	5775
	72	6.3	4	160	640
	73	6.3	8	189	1512
	74	6.3	20	216	4320

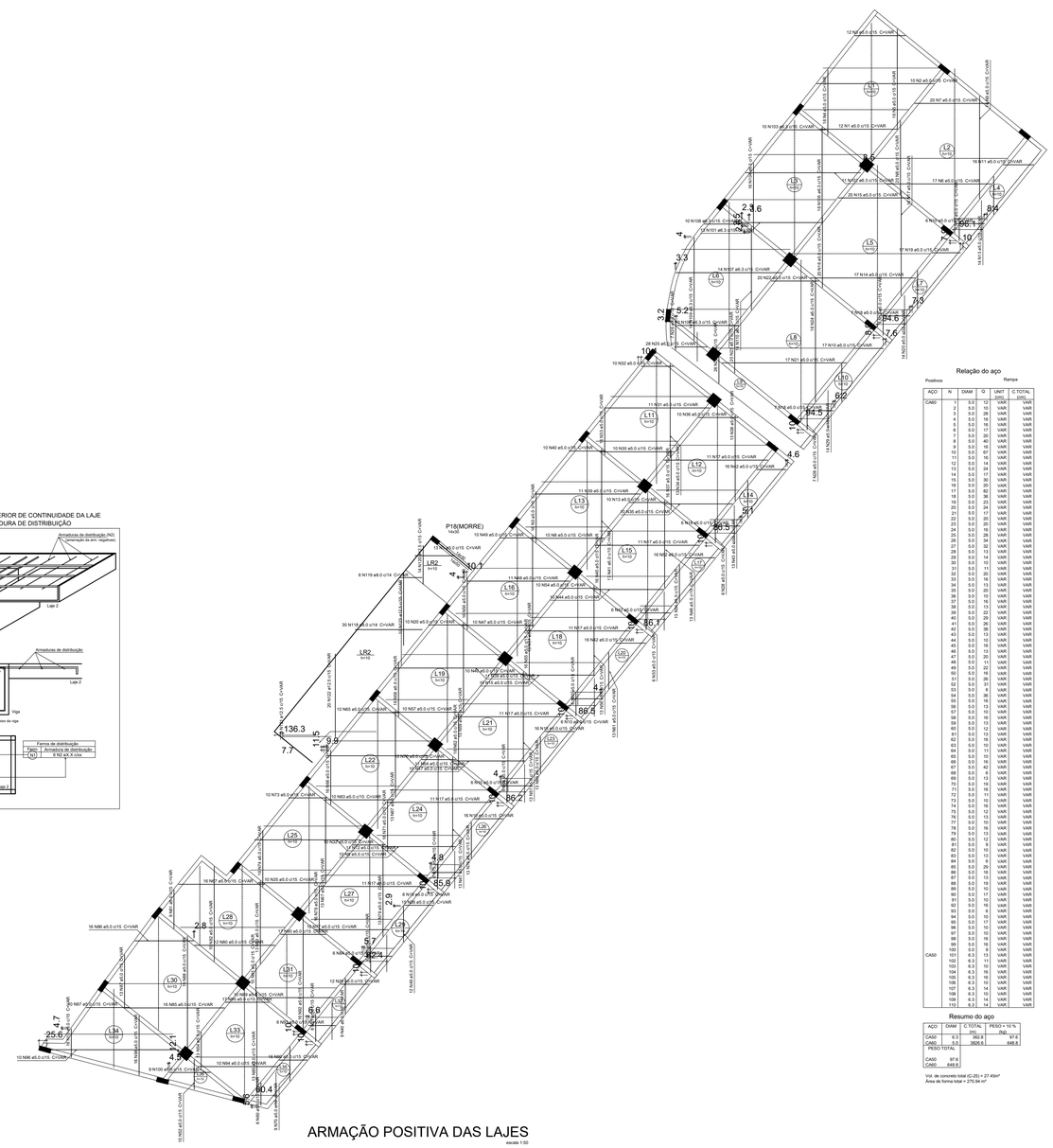
Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	1837.7	494.6
	5.0	3620.3	478.9
CA60	5.0	3620.3	478.9
PESO TOTAL			
CA50	513.4		
CA60	478.9		

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



Ferros de distribuição	
Ferro	Armadura de distribuição
N1	6 N2 ø5.0 C/ xx c/xx



ARMAÇÃO POSITIVA DAS LAJES

escala 1:50

Relação do aço

Positivos Ramps

AÇO	N	DIAM	Q	UNIT (m)	C.TOTAL (m)
CA60	1	5.0	12	VAR	VAR
	2	5.0	28	VAR	VAR
	3	5.0	28	VAR	VAR
	4	5.0	16	VAR	VAR
	5	5.0	16	VAR	VAR
	6	5.0	17	VAR	VAR
	7	5.0	20	VAR	VAR
	8	5.0	16	VAR	VAR
	9	5.0	16	VAR	VAR
	10	5.0	67	VAR	VAR
	11	5.0	16	VAR	VAR
	12	5.0	14	VAR	VAR
	13	5.0	24	VAR	VAR
	14	5.0	30	VAR	VAR
	15	5.0	30	VAR	VAR
	16	5.0	20	VAR	VAR
	17	5.0	62	VAR	VAR
	18	5.0	38	VAR	VAR
	19	5.0	23	VAR	VAR
	20	5.0	24	VAR	VAR
	21	5.0	24	VAR	VAR
	22	5.0	20	VAR	VAR
	23	5.0	20	VAR	VAR
	24	5.0	16	VAR	VAR
	25	5.0	28	VAR	VAR
	26	5.0	28	VAR	VAR
	27	5.0	32	VAR	VAR
	28	5.0	13	VAR	VAR
	29	5.0	14	VAR	VAR
	30	5.0	10	VAR	VAR
	31	5.0	11	VAR	VAR
	32	5.0	39	VAR	VAR
	33	5.0	20	VAR	VAR
	34	5.0	13	VAR	VAR
	35	5.0	20	VAR	VAR
	36	5.0	10	VAR	VAR
	37	5.0	16	VAR	VAR
	38	5.0	16	VAR	VAR
	39	5.0	22	VAR	VAR
	40	5.0	29	VAR	VAR
	41	5.0	26	VAR	VAR
	42	5.0	38	VAR	VAR
	43	5.0	13	VAR	VAR
	44	5.0	16	VAR	VAR
	45	5.0	16	VAR	VAR
	46	5.0	13	VAR	VAR
	47	5.0	20	VAR	VAR
	48	5.0	11	VAR	VAR
	49	5.0	22	VAR	VAR
	50	5.0	26	VAR	VAR
	51	5.0	38	VAR	VAR
	52	5.0	31	VAR	VAR
	53	5.0	6	VAR	VAR
	54	5.0	36	VAR	VAR
	55	5.0	16	VAR	VAR
	56	5.0	13	VAR	VAR
	57	5.0	13	VAR	VAR
	58	5.0	12	VAR	VAR
	59	5.0	13	VAR	VAR
	60	5.0	13	VAR	VAR
	61	5.0	13	VAR	VAR
	62	5.0	14	VAR	VAR
	63	5.0	10	VAR	VAR
	64	5.0	11	VAR	VAR
	65	5.0	10	VAR	VAR
	66	5.0	10	VAR	VAR
	67	5.0	42	VAR	VAR
	68	5.0	6	VAR	VAR
	69	5.0	13	VAR	VAR
	70	5.0	19	VAR	VAR
	71	5.0	10	VAR	VAR
	72	5.0	11	VAR	VAR
	73	5.0	10	VAR	VAR
	74	5.0	16	VAR	VAR
	75	5.0	12	VAR	VAR
	76	5.0	13	VAR	VAR
	77	5.0	10	VAR	VAR
	78	5.0	13	VAR	VAR
	79	5.0	13	VAR	VAR
	80	5.0	12	VAR	VAR
	81	5.0	9	VAR	VAR
	82	5.0	10	VAR	VAR
	83	5.0	13	VAR	VAR
	84	5.0	14	VAR	VAR
	85	5.0	29	VAR	VAR
	86	5.0	16	VAR	VAR
	87	5.0	13	VAR	VAR
	88	5.0	19	VAR	VAR
	89	5.0	10	VAR	VAR
	90	5.0	10	VAR	VAR
	91	5.0	10	VAR	VAR
	92	5.0	16	VAR	VAR
	93	5.0	6	VAR	VAR
	94	5.0	10	VAR	VAR
	95	5.0	10	VAR	VAR
	96	5.0	10	VAR	VAR
	97	5.0	10	VAR	VAR
	98	5.0	16	VAR	VAR
	99	5.0	16	VAR	VAR
	100	5.0	9	VAR	VAR
CA50	101	6.3	13	VAR	VAR
	102	6.3	10	VAR	VAR
	103	6.3	10	VAR	VAR
	104	6.3	16	VAR	VAR
	105	6.3	16	VAR	VAR
	106	6.3	10	VAR	VAR
	107	6.3	14	VAR	VAR
	108	6.3	14	VAR	VAR
	109	6.3	16	VAR	VAR
	110	6.3	14	VAR	VAR

Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	362.8	97.6
CA60	5.0	3629.6	648.8
PESO TOTAL			
CA50	97.6		
CA60	648.8		

Vol. de concreto total (C-25) = 27.45m³
Área de forma total = 270.34 m²

PREFEITURA MUNICIPAL DE GUAÇUÍ
ESTADO DO ESPÍRITO SANTO

PROJETO ESTRUTURAL

OBRA:
PROJETO DE REFORMA REQUALIFICAÇÃO URBANA
DA AV. AGENOR LUIZ THOMÉ

CONTEÚDO:
PRAÇA DA FONTE

LOCAL: AV. AGENOR LUIZ THOMÉ - (BEIRA RIO) GUAÇUÍES

* DIMENSÕES DO DESENHO EM METRO
** ESCALA INDICADA EM PLANTAS

DATA: JUNHO/26

MODIFICAÇÕES:

FOLHA: 06/18

ÁREAS:

ARQUIVO Nº: ESTRUT-001

ASSINATURA:

PAULO VICTOR TEIXEIRA DEASCÂNIO
CREA-ES-050212/D