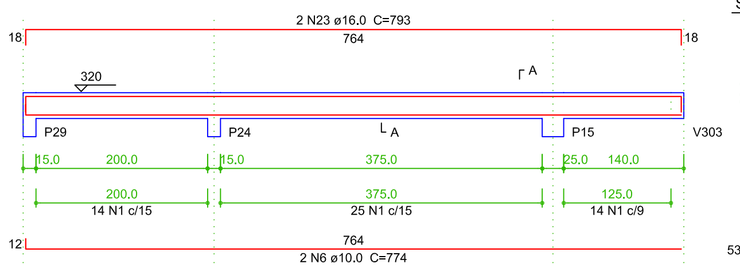
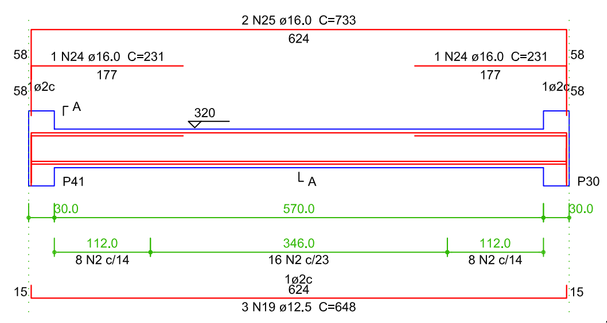
PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

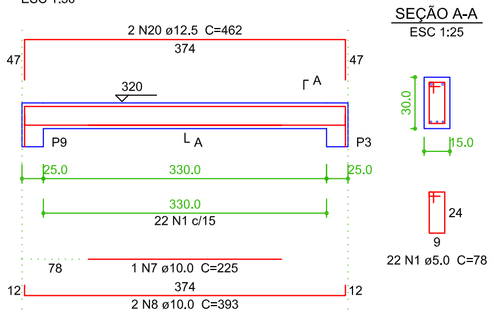
V315
ESC 1:50



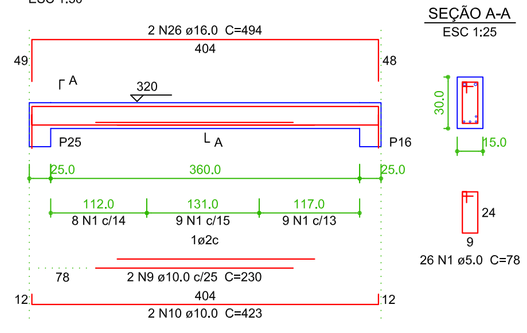
V316
ESC 1:50



V317
ESC 1:50



V318
ESC 1:50



Relação do aço

3xP2	4xP3	2xP4
P22	P23	2xP28
2xP30	2xP32	P33
P34	V315	V316
V317	V318	V319
V320	V321	V322
V324		

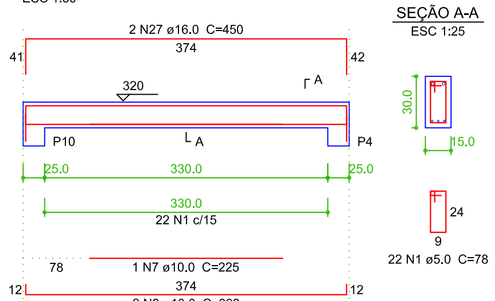
AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	370	78	28860
	2	5.0	32	108	3456
	3	5.0	265	68	18020
	4	5.0	25	24	600
	5	5.0	40	88	3520
CA50	6	10.0	2	774	1548
	7	10.0	3	225	675
	8	10.0	6	393	2358
	9	10.0	2	230	460
	10	10.0	2	423	846
	11	10.0	1	392	392
	12	10.0	4	629	2516
	13	10.0	1	215	215
	14	10.0	2	658	1316
	15	10.0	2	799	1598
	16	10.0	2	839	1678
	17	10.0	10	287	2870
	18	10.0	12	328	3936
	19	12.5	3	648	1944
	20	12.5	4	462	1848
	21	12.5	60	287	17220
	22	12.5	12	337	4044
	23	16.0	2	793	1586
	24	16.0	2	231	462
	25	16.0	2	733	1466
	26	16.0	2	494	988
	27	16.0	2	450	900
	28	16.0	2	661	1322
	29	16.0	18	287	5166

Resumo do aço

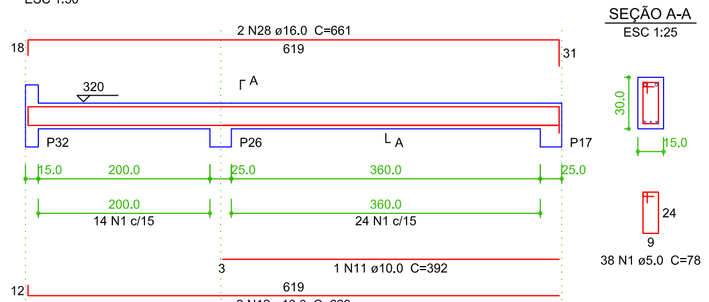
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	10.0	204.1	138.4
	12.5	250.6	265.5
	16.0	118.9	206.4
CA60	5.0	544.6	92.3

PESO TOTAL (kg)	
CA50	610.3
CA60	92.3

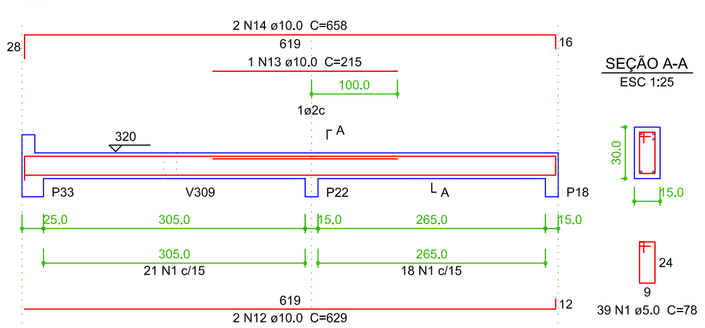
V319
ESC 1:50



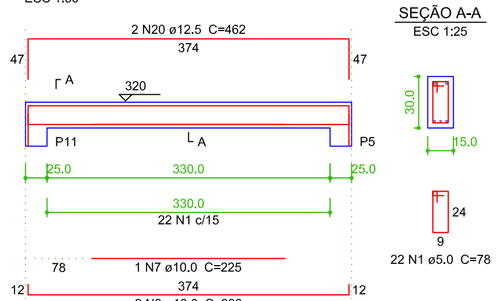
V320
ESC 1:50



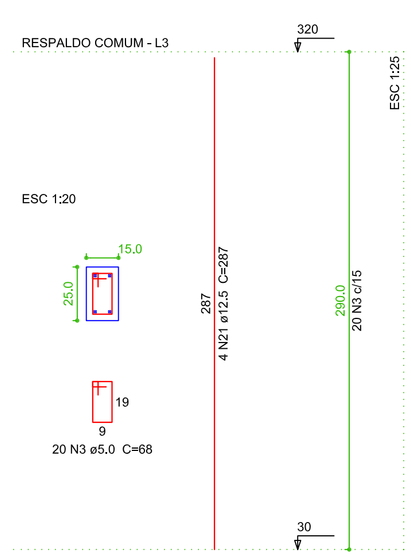
V321
ESC 1:50



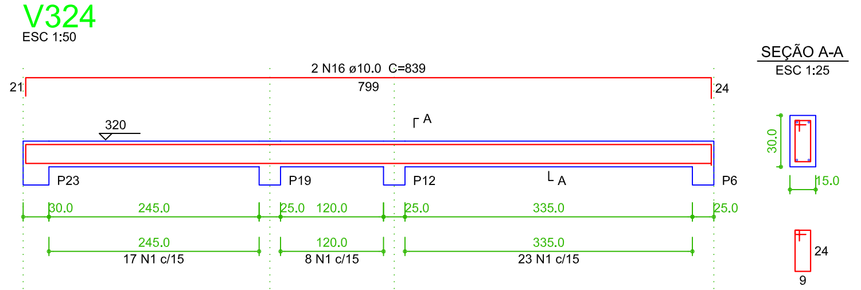
V322
ESC 1:50



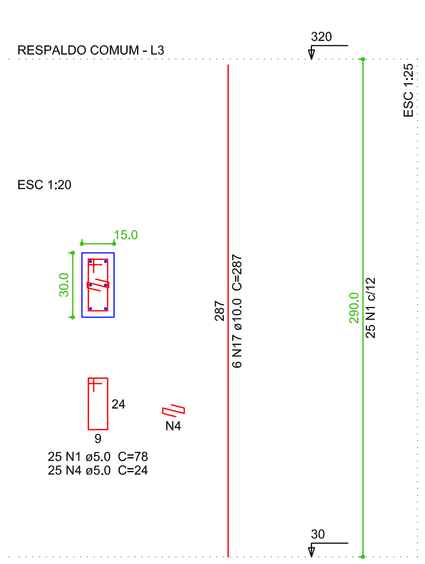
P2=P3=P4=P5=P9=P10=P11=P16=P25=P28=P36



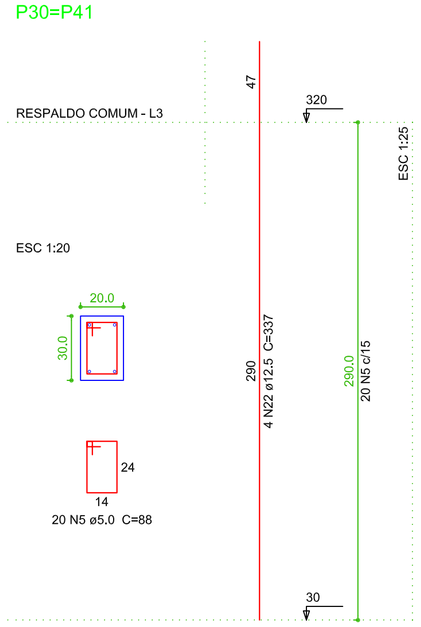
V324
ESC 1:50



P22=P23



P30=P41



Relação do aço

P32	2xP33	2xP43
V401	V402	V403
V404		

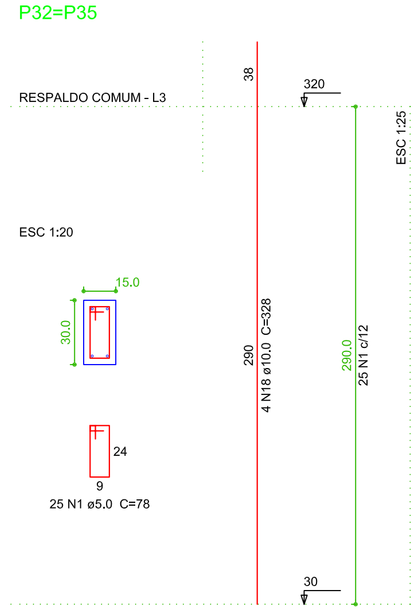
AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	28	98	2744
	2	5.0	2	225	450
	3	5.0	184	78	14352
	4	5.0	2	480	960
	5	5.0	28	68	1904
	6	5.0	22	148	3256
	7	5.0	22	49	1078
CA50	8	10.0	4	624	2496
	9	10.0	2	663	1326
	10	10.0	2	1129	2258
	11	10.0	2	146	292
	12	10.0	2	806	1612
	13	10.0	2	651	1302
	14	10.0	2	1014	2028
	15	10.0	4	301	1204
	16	10.0	12	157	1884
	17	12.5	12	157	1884

Resumo do aço

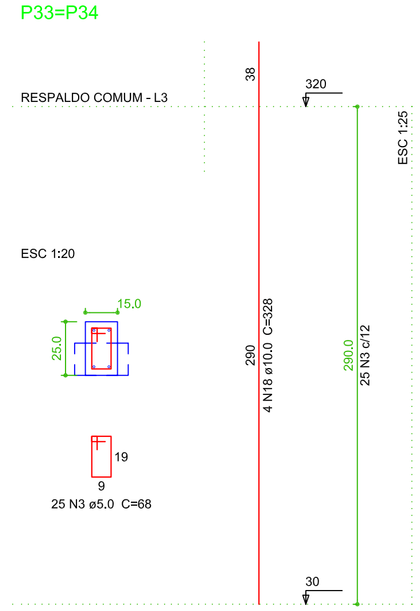
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	10.0	144.1	97.7
	12.5	18.9	20
CA60	5.0	247.5	42

PESO TOTAL (kg)	
CA50	117.6
CA60	42

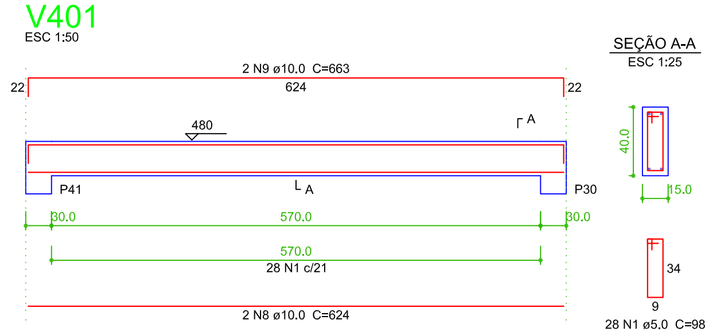
P32=P35



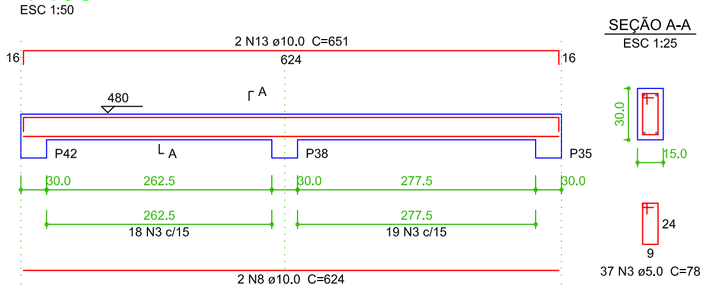
P33=P34



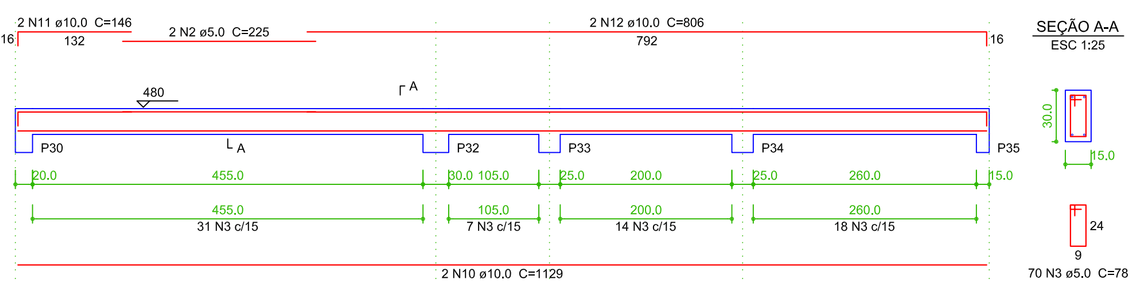
V401
ESC 1:50



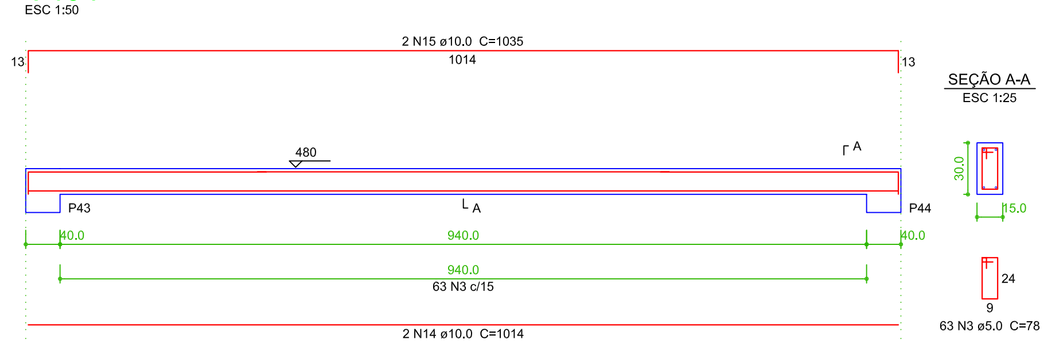
V403
ESC 1:50



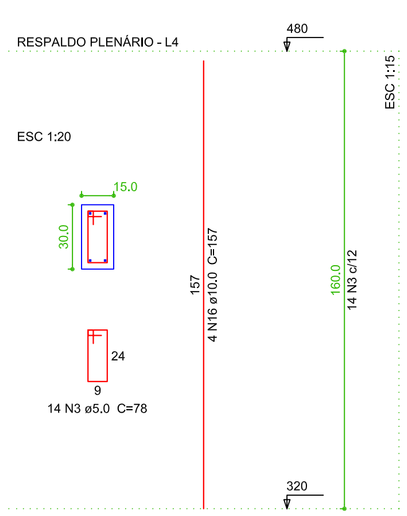
V402
ESC 1:50



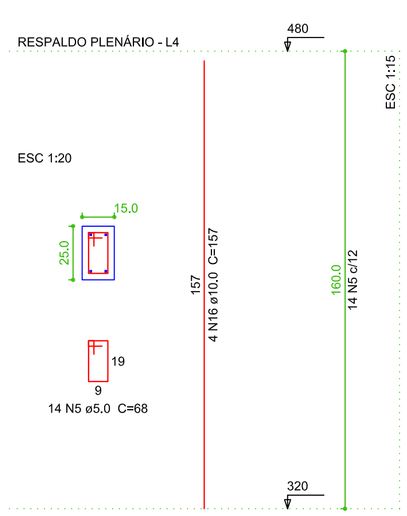
V404
ESC 1:50



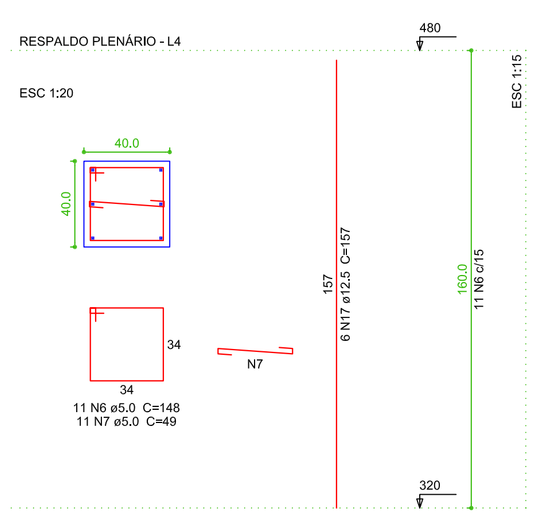
P32



P33=P34



P43=P44



"... até aqui nos ajudou o Senhor." – 1 Sm 7:12b

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| JAPOTI - PR |

Obra
CONSTRUÇÃO DA SEDE DA CÂMARA DE VEREADORES DE GUAPIRAMA

Proprietário: **CÂMARA MUNICIPAL DE GUAPIRAMA**
CNPJ: 77.774.610/0001-77

Autor do Projeto: CARLOS AVELINO DA SILVA
CREA 101.152/D-PR

Responsável Técnico:

Prancha: **07** /07

Referencias: DETALHAMENTO DAS VIGAS DE RESPALDO
DETALHAMENTO DOS PILARES DE RESPALDO

Endereço: RUA JASMIM, S/N.*, CENTRO – GUAPIRAMA – PR.

Existente 0,00M2
A construir 348,29M2
A reformar 0,00M2
Total 348,29M2

PROJETO ESTRUTURAL

Desenho: FÁBIO
Data: OUTUBRO/2014
Escala: INDICADA

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT
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