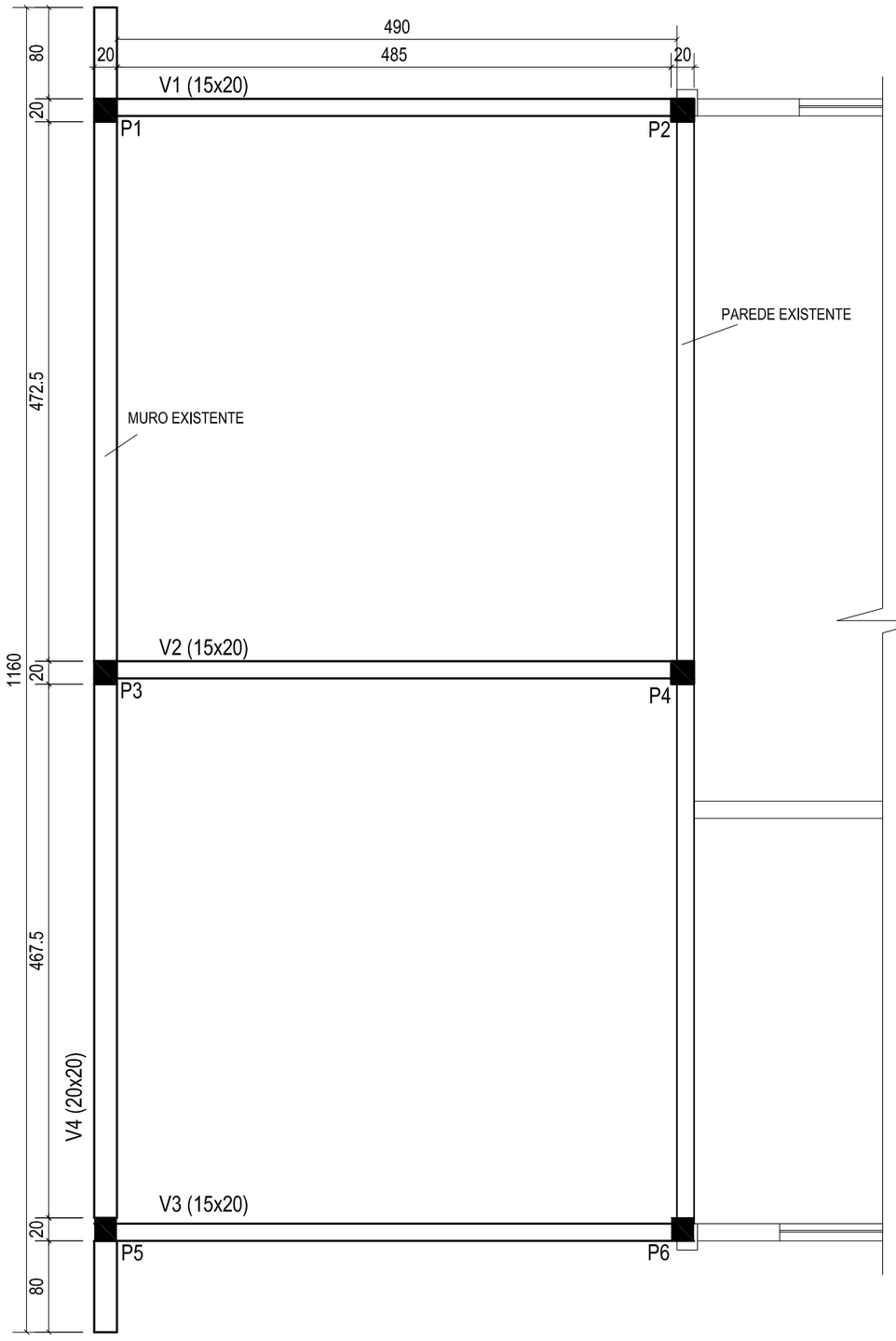
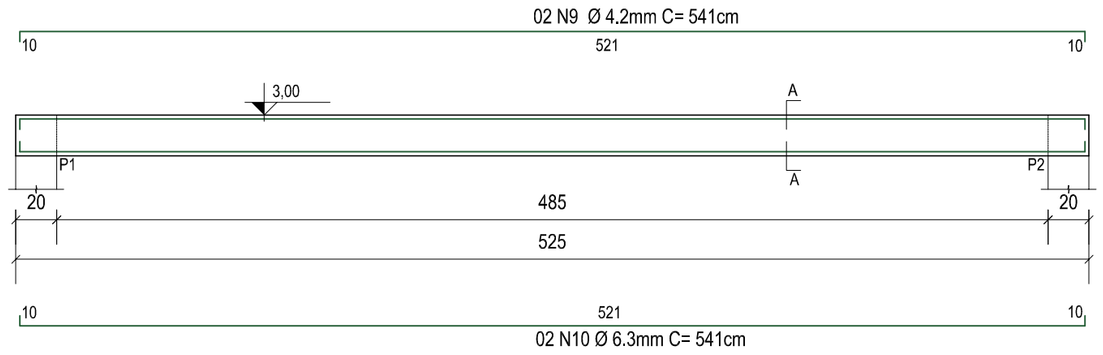


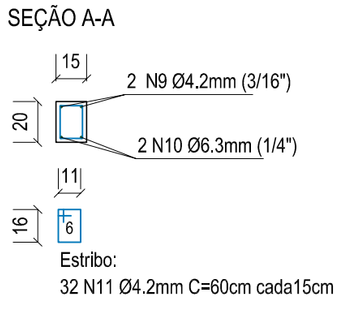
Fôrma - Viga Amarração

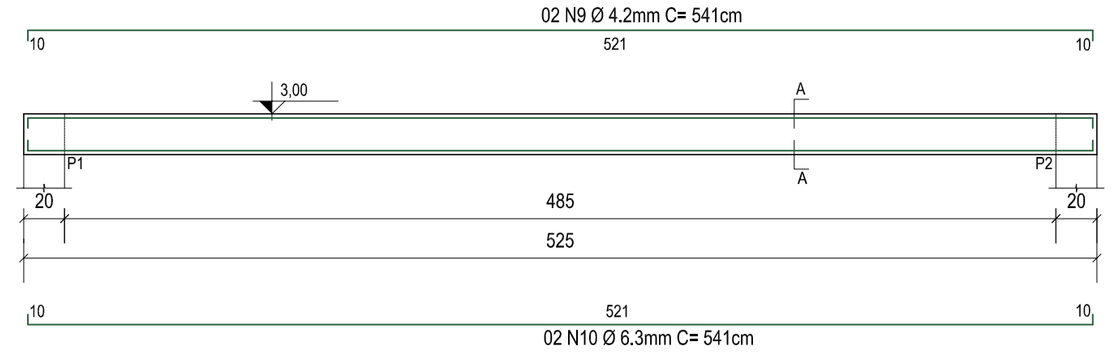
Escala 1:50



V1 (15x20cm)

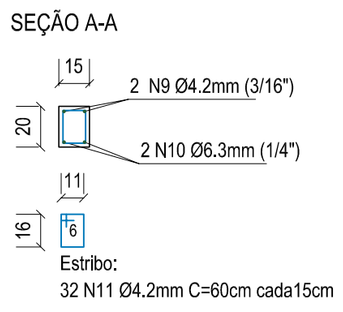
Esc. 1:30

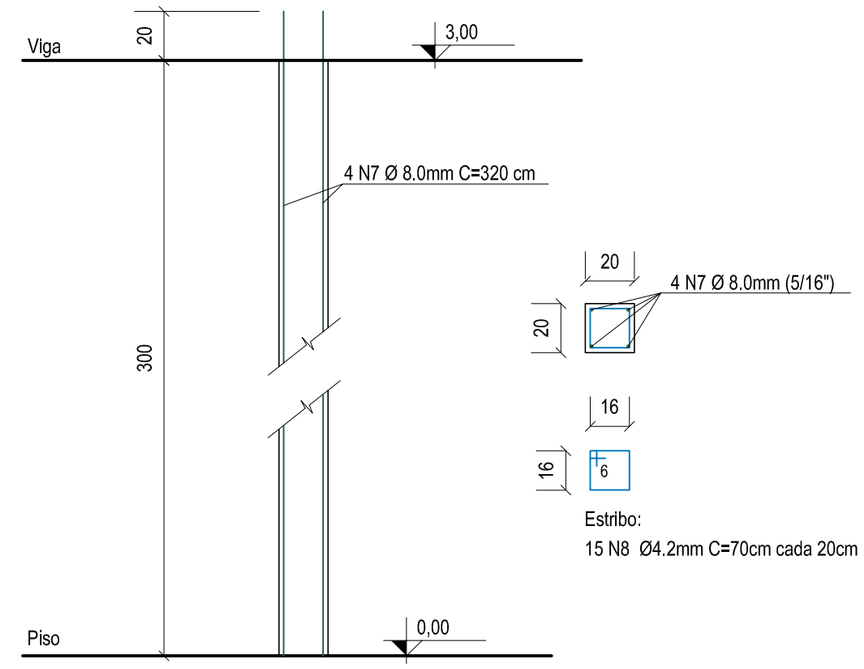




V2 (15x20cm)

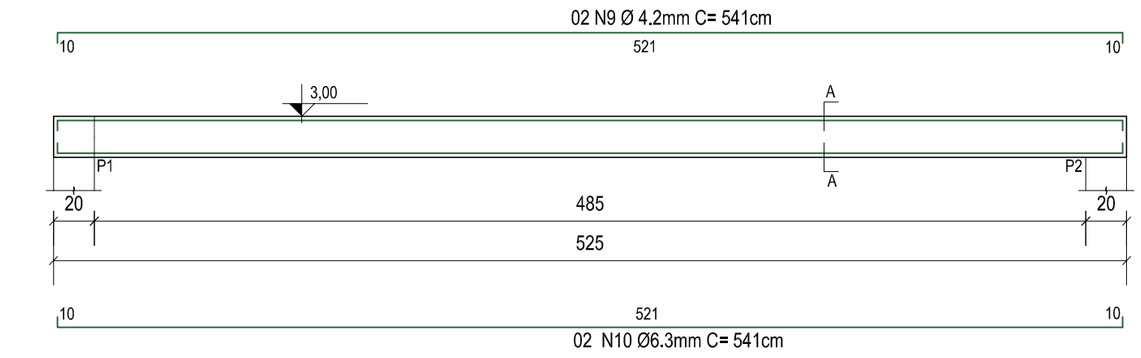
Esc. 1:30





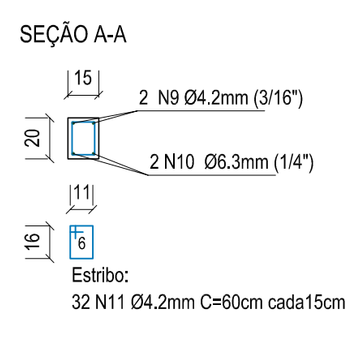
Detalhe Pilares (genérico)

Escala 1:25



V3 (15x20cm)

Esc. 1:30



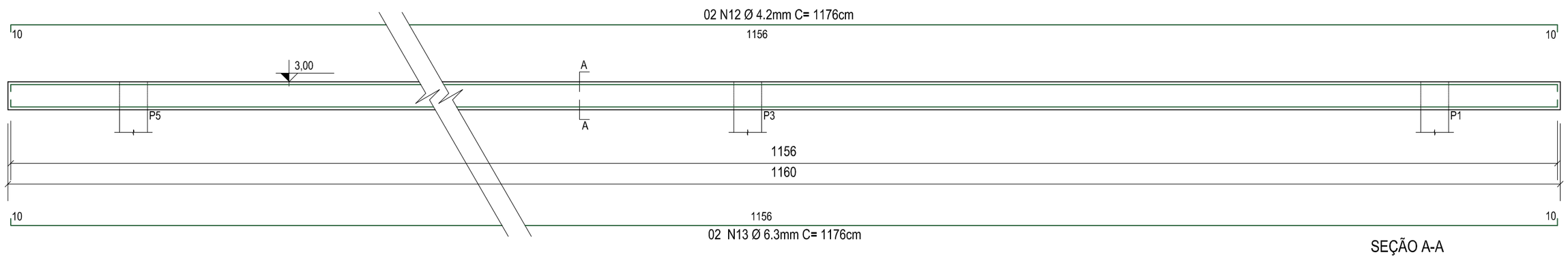
Planilha do Aço				
Aço	Ø (mm)	Qtidade	Cunit. (cm)	Ctotal (cm)
N7	8,00	24	320	7680
N8	4,20	90	70	6300
N9	4,20	06	541	3246
N10	6,30	06	541	3246
N11	4,20	96	60	5760
N12	4,20	02	1176	2352
N13	6,30	02	1176	2352

Resumo do Aço				
Aço	Ø (mm)	Ctotal (cm)	Punit (kg/m)	Ptotal * (kg)
CA50	8,00	7680	0,395	34,0
	6,30	5598	0,245	15,0
CA60	4,20	22768	0,109	27,0

* Peso total com acréscimo de 10%.

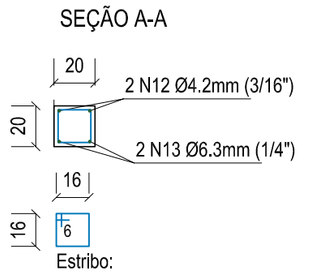
Dados
Concreto: fck = 20 MPa
Brita: 0 e 1
Volume de Concreto*: 2,0 m³
Área de Fôrma*: 26,0 m²

* Com acréscimo de 10%.



V4 (20x20cm)

Esc. 1:30



PREFEITURA MUNICIPAL DE RIO NEGRO - PARANA
SECRETARIA DE OBRAS E SERVIÇOS URBANOS

PROJETO ESTRUTURAL

Referencia: SUPRA ESTRUTURA

Data: setembro/2010

Obra: CASA DE PASSAGEM - AMPLIAÇÃO
Localizada Rua Emilio Von Lisingen - Bairro Passa Três
Rio Negro - Paraná

Desenho: Micheli

Escala: indicada

Visto Prefeito:
ALCEU RICARDO SWAROWSKI
PREFEITO MUNICIPAL

Responsável Técnico:
MICHELI MACLIN LIEBEL JOHN
ENGENHEIRA CIVIL
CREA SC/PR: 089725-9

Prancha: E02/02