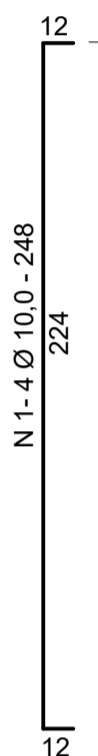
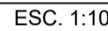


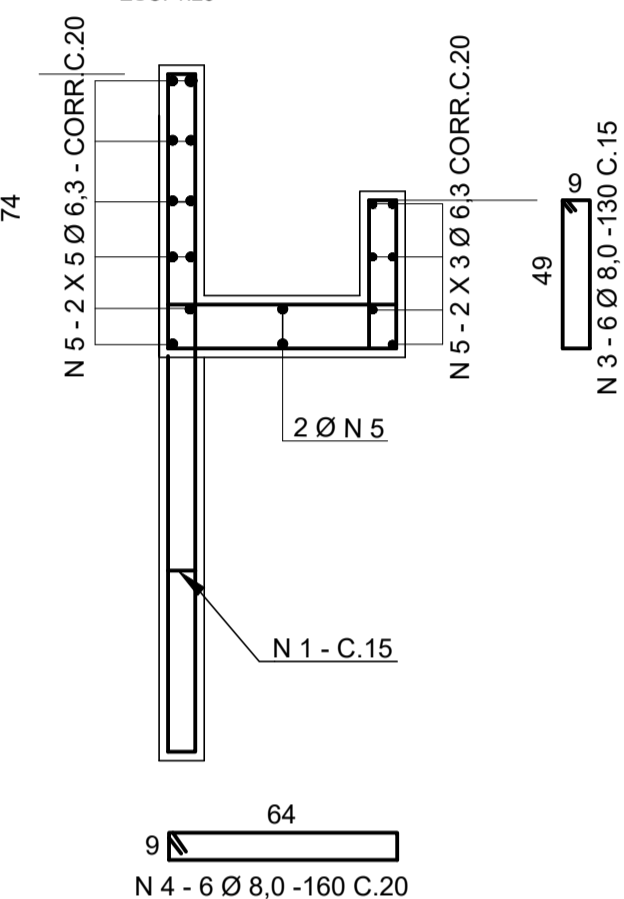
## ESC. 1:25



N	Ø		Q	COMPRIMENTO	
	mm	pol		UNIT. ( cm )	TOTAL ( m )
1	10	3/8	2	248	5,0
2	8.0	5/16	6	180	10,8
3	8.0	5/16	6	130	7,80
4	8.0	5/16	6	160	9,60
5	6,3	1/4	18	CORR.	18,00
6	5,0	3/16	7,5	60	4,5

RESUMO			
Ø		COMPR. TOTAL	PESO TOTAL
mm	pol	( m )	( Kg )
10,0	3/8	5,0	3,10
8,0	5/16	28,2	11,0
6,3	1/4	18,0	5,0
5,0	3/16	4,5	0,63
PESO TOTAL			19.73 Kg

ESC. 1:25



## ESC 1:25

[illegible]

Technical drawing of a mechanical part with dimensions:

- Overall width: 100
- Overall height: 110
- Top flange thickness: 5 (MAX.)
- Top flange width: 30
- Top flange height: 18
- Bottom flange width: 18
- Bottom flange height: 18
- Bottom flange thickness: 18
- Bottom flange width: 80
- Bottom flange height: 18

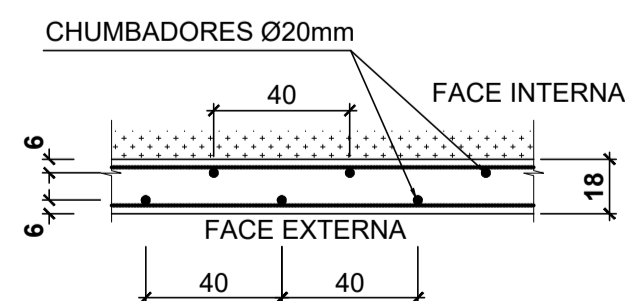
Technical drawing of a 2x8 N3 06 3-137-c.10 beam. The drawing shows a cross-section of the beam with dimensions and labels. The top flange is labeled 2x8 N2-c.12.5 (INT./EXT.) and the bottom flange is labeled 2x8 N2-c.10 (SUP./INF.). The web is labeled 11 N1-c.10. The total height of the beam is labeled 2x8 N3. The total width of the beam is labeled N3-2X8 06 3-137-c.10. The drawing also shows 4 N5 labels at the corners of the beam.

N	Ø	Q	COMPRIMENTO	
			UNIT.(cm)	TOTAL (m)
1	6,3	44	70	31
2	6,3	64	125	80
3	6,3	40	137	55
4	6,3	16	119	19
5	6,3	20	107	21

RESUMO		
Ø	COMP. TOTAL (m)	MASSA TOTAL (kg)
6,3	206	52
MASSA		52 kg

ESC. 1:25

ESC. 1:25



N	Ø	Q	COMPRIMENTO	
			UNIT.(cm)	TOTAL (m)
1	8,0	6	135	8,10
2	6,3	10	corr.	10
3	20	3	150	4,5

N1-608,0-135-c.20

51

9

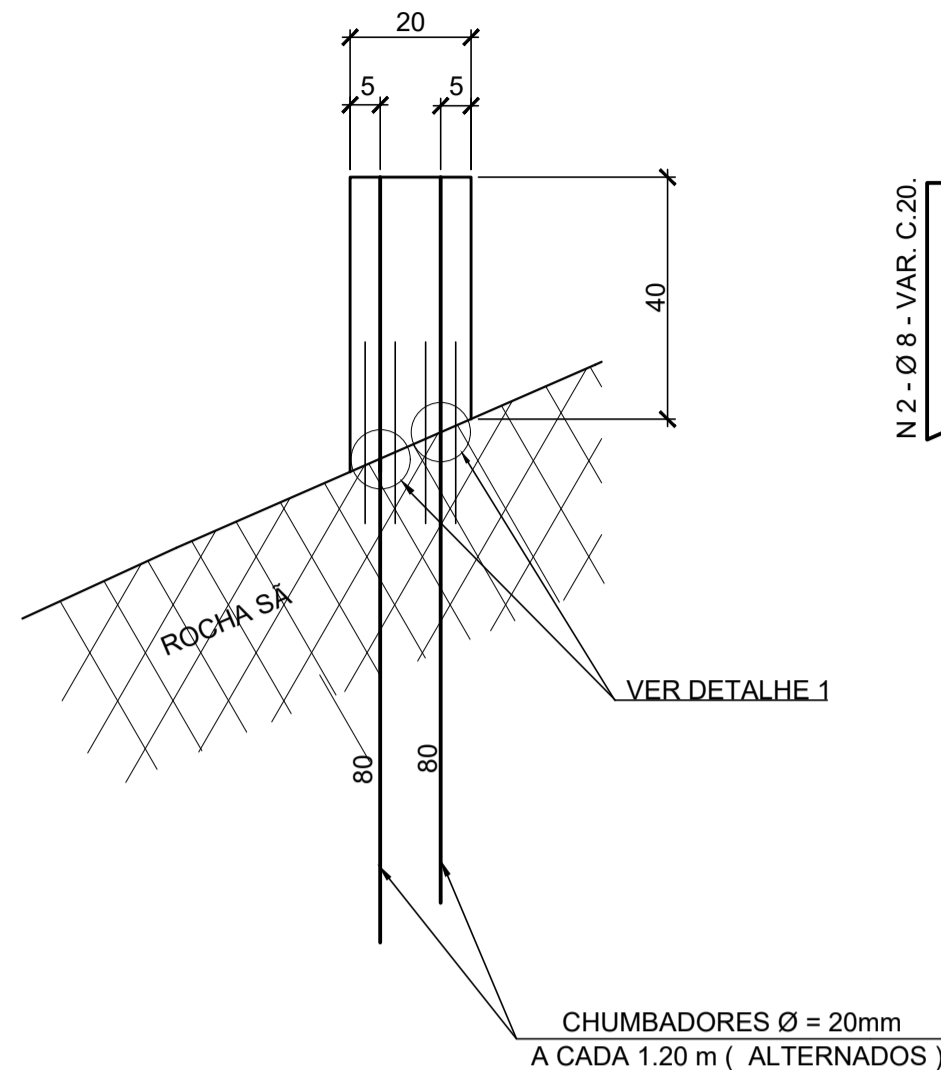
N2-2X506,3-corr. c.15

Ø	COMP. TOTAL (m)	MASSA TOTAL (kg)
8,0	8,1	3,3
6,3	10	6,3
20	4,5	11,3
MASSA TOTAL:		17,90 kg

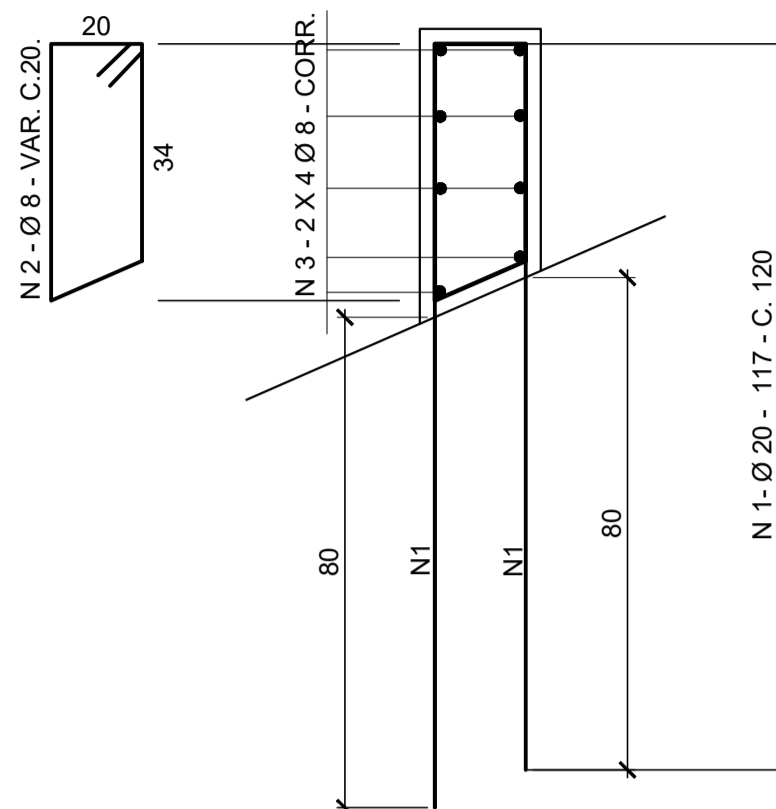
VIGA - 20 X 40

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ESC. 1:12,5



ESC. 1:12.5



P/ 1,0m LINEAR DE VIGA ( 20 x 40 )

N	Ø		Q	COMPRIMENTO	
	mm	pol		UNIT. ( cm )	TOTAL ( m )
1	20	3/4	1,67	117	1.95
2	8.0	5/16	5	VAR.	6,0
3	8.0	5/16	8	CORR.	8,0

P/ 1,0m LINEAR DE VIGA ( 20 X 40 )

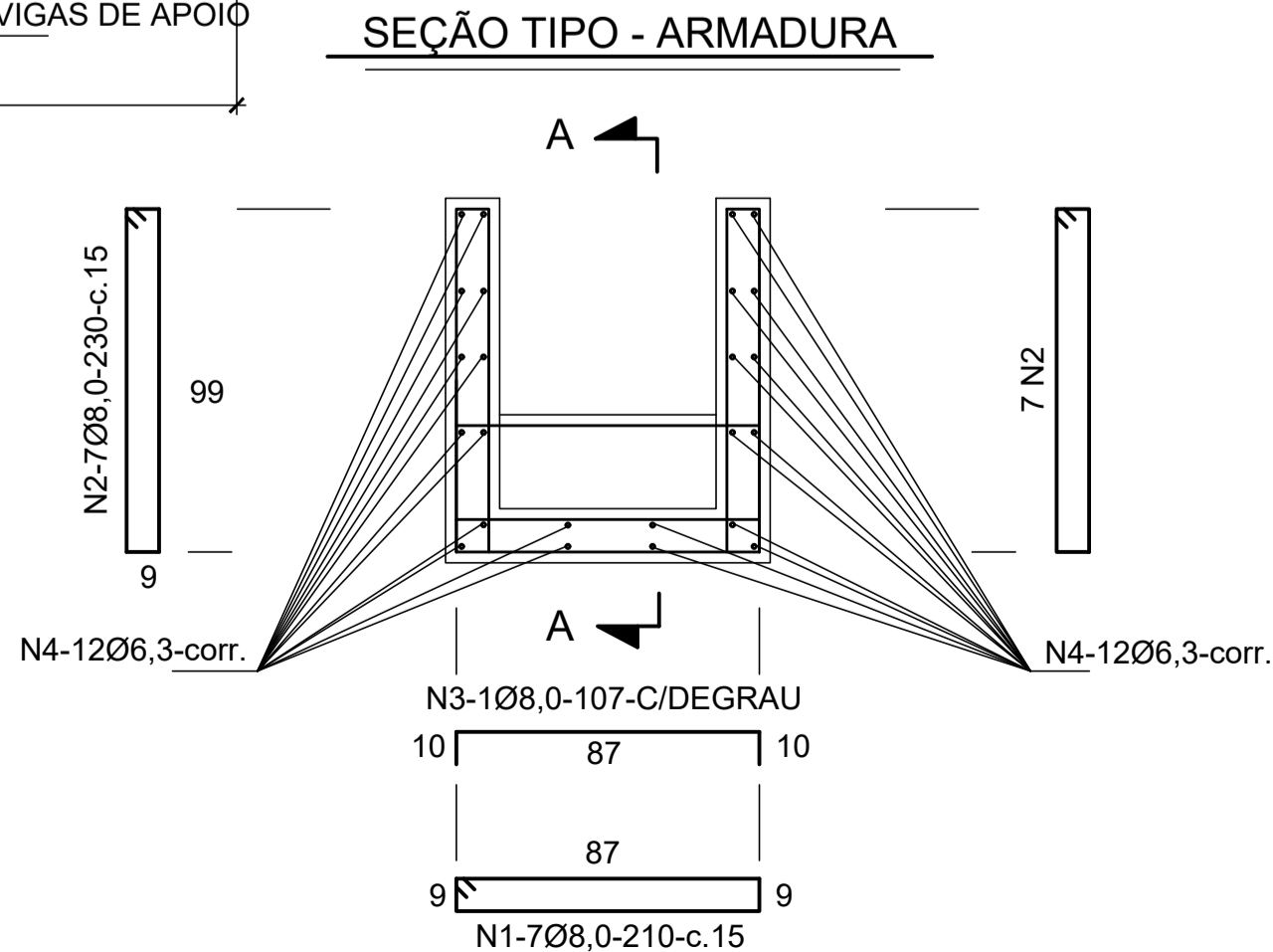
Ø		COMPR. TOTAL	PESO TOTAL
mm	pol	( m )	( Kg )
20	3/4	1,95	5,0
8.0	5/16	14,0	6,0
PESO TOTAL			11,0 kg

- 1- DIMENSÕES EM CENTÍMETROS.
- 2- A LOCAÇÃO DA OBRA DEVERÁ SER FEITA COM APOIO DE TOPOGRAFIA E ACOMPANHADA PELA FISCALIZAÇÃO.
- 3- O MÉTODO EXECUTIVO DEVERÁ SER ADEQUADO AS CONDICIONANTES LOCAIS, ESPECIALMENTE AS GEOTÉCNICAS , VISANDO A SEGURANÇA DA OBRA .
- 4- MATERIAIS : CONCRETO ARMADO fck >=30 MPa , CONSUMO, MÍNIMO DE 350 kgf/m<sup>3</sup> - AÇO CA -50.
- 5- DEVERÃO SER E SEGUIDAS AS ESPECIFICAÇÕES DA ABNT E AS CONSTANTES DO MANUAL DE ENCOSTA DA GEO RIO NO QUE COUBER.
- 6- O COBRIMENTO DA ARMADURA DEVERÁ SER DE 4,5 cm NO MÍNIMO, DEVENDO SER UTILIZADAS PASTILHAS PARA GARANTIR TAL COBRIMENTO EM TODAS AS BARRAS.
- 7- AS EMENDAS DOS FERROS DEVERÃO SER FEITAS DE ACORDO COM NBR 6118.
- 8- O PESO DE AÇO DEVERÁ SER ACRESCIDO EM 10% PARA PREVENIR EVENTUAIS PERDAS.

ESP.	COR
0,1	1
0,2	2
0,3	3
0,4	4
0,5	5
0,6	6

Ø	COMP. TOTAL (m)	MASSA TOTAL (kg)
8,0	57	23
6,3	31	8
MASSA TOTAL:		31 kg

N	Ø	Q	COMPRIMENTO	
			UNIT.(cm)	TOTAL (m)
1	8,0	7	210	15
2	8,0	14	230	32
3	8,0	2	107	2
4	6,3	24	corr.	24
5	8,0	5	var.	8
6	6,3	8	87	7



# EMUSA



OBRA: COMUNIDADE BOA ESPERANÇA  
RUA CARLOS CHAGAS, Nº 5 - PIRATININGA - NITERÓI/RJ

DESENHO: VIGAS CHUMBADAS E CANALETAS - FORMA E ARMAÇÃO  
CAIXA DE PASSAGEM - PONTO 1

DIRETOR DE PLANEJAMENTO  
CAPTAÇÃO DE RECURSOS:  
PAULO CÉSAR SILVA CARRERA

ENGENHEIRO CIVIL:  
PAULO CÉSAR SILVA CARRERA

FOLHA

05

ESCALA:  
1/100