

REPUBLIQUE DU CAMEROUN

PAIX-TRAVAIL-PATRIE



REPUBLIC OF CAMEROON

PEACE-WORK-FATHERLAND

PROJET :
ETUDES ARCHITECTURALES ET TECHNIQUES EN VUE DE LA CONSTRUCTION DE
LA DELEGATION DEPARTEMENTALE DU MINH DU HAUT-NYONG



MAITRE D'OUVRAGE :

**MINISTERE DE L'HABITAT ET DU
DEVELOPPEMENT URBAIN**

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


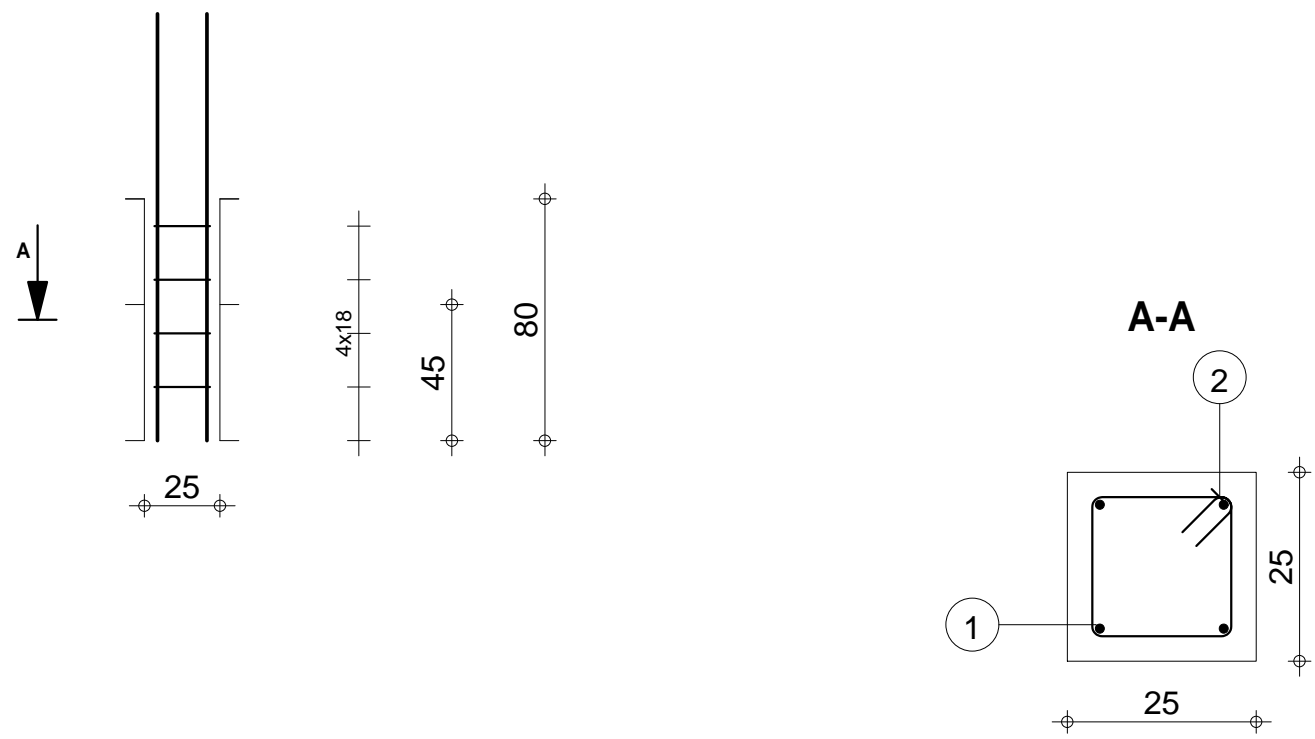
FERAILLAGE

Date :	19/11/2016
Echelle pour la vue :	1/25 ; 1/50
Echelle pour la section	1/10

Indices	Modifications	Dates	Phases	
			APS	
			APD	
			PEO	
			DAO	

AMORCES

Pos.	Armature	Code	Forme
①	4HA 12 l=1.41	00	1.41
②	4RL 6 l=88	31	



Tél. Fax

Acier HA 500 = 5.01 kg Béton : BETON20 = 0.0281 m3
 Acier RL 215 = 0.776 kg Surface du coffrage = 0.45 m2
 Enrobage 3 cm



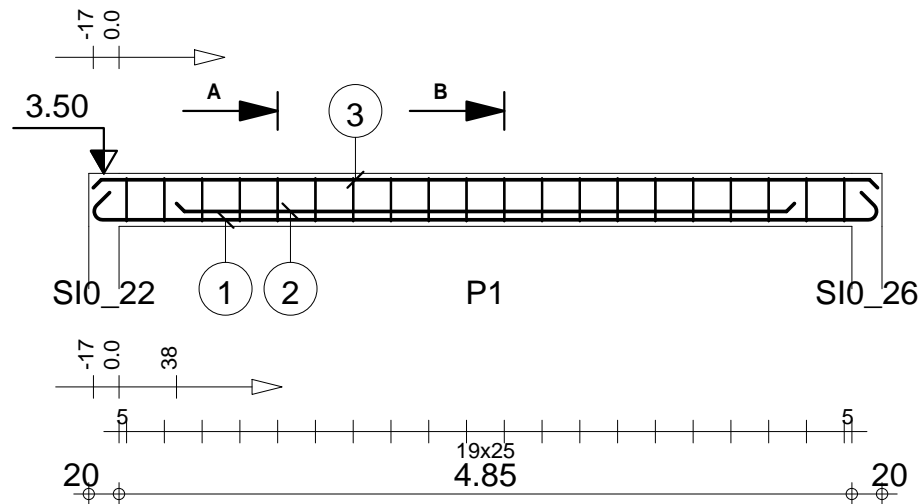
Amorces
MINHDU Haut-Nyong

A1
Section 25x25

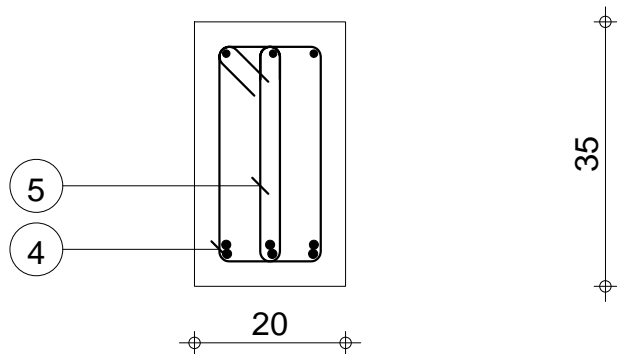
Echelle pour la vue 1/25
 Echelle pour la section 1/10 Page 1/1

LONGRINES

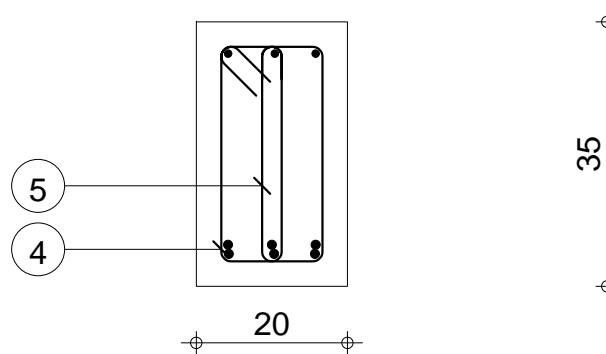
Pos.	Armature	Code	Forme
①	3HA 12 l=5.57	00	
②	3HA 12 l=4.09	00	
③	3HA 10 l=5.19	00	
④	20RL 6 l=98	31	
⑤	20RL 6 l=70		



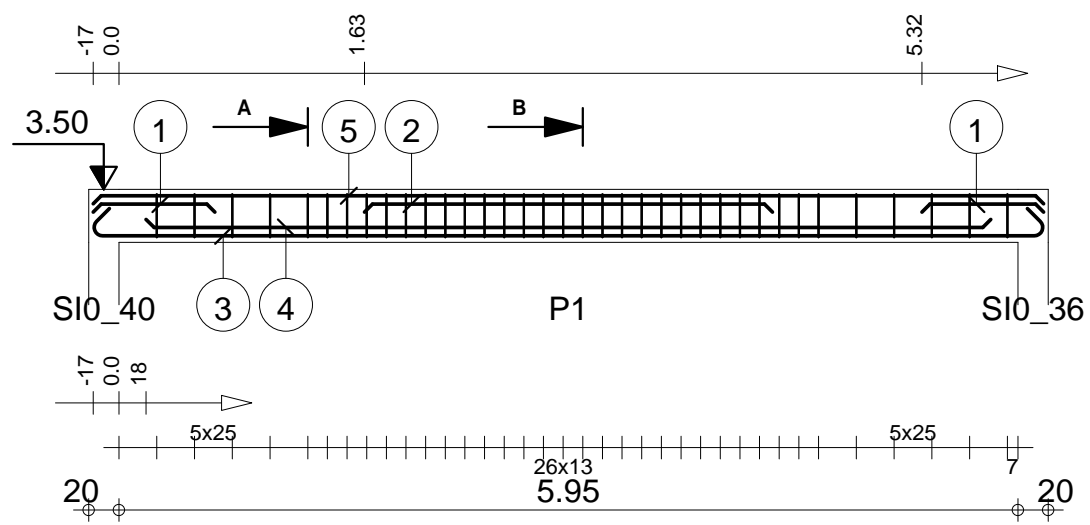
A-A



B-B

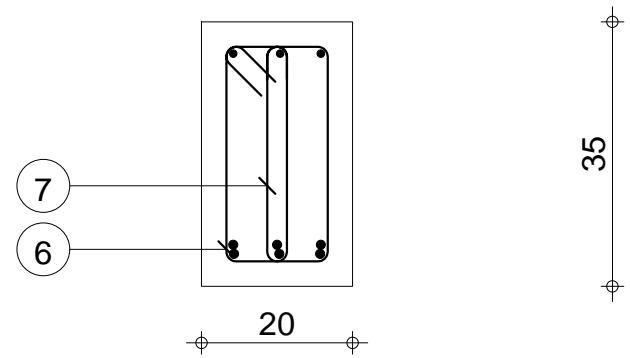


Tél.		Fax		Acier HA 400 = 35.3 kg	
Tenue au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non	
 LONGRINE MINHDU Haut-Nyong		D : P1 Section 20x35 Nombre 1		Béton : BETON20 = 0.367 m ³ Acier RL 235 = 7.43 kg	
				Surface du coffrage = 4.78 m ² Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm	
		Densité = 116.6 kg/ m ³ Diamètre moyen = 9.03mm		Echelle pour la vue 1/50	
				Echelle pour la section 1/10	
				Page 1/96	

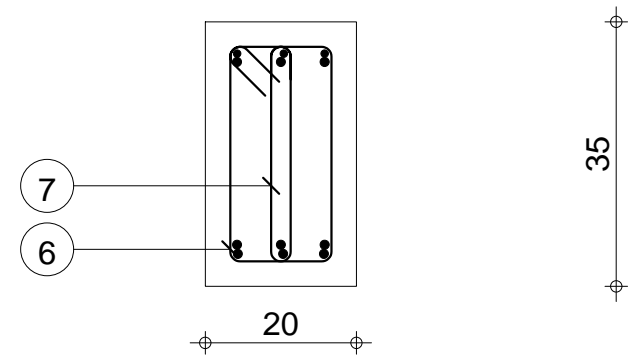


Pos.	Armature	Code	Forme
①	6HA 12	l=81	00 — 81
②	3HA 12	l=2.70	00 — 2.70
③	3HA 12	l=6.67	00 — 6.29
④	3HA 12	l=5.59	00 — 5.59
⑤	3HA 10	l=6.29	00 — 6.29
⑥	36RL 6	l=98	31
⑦	36RL 6	l=70	

A-A

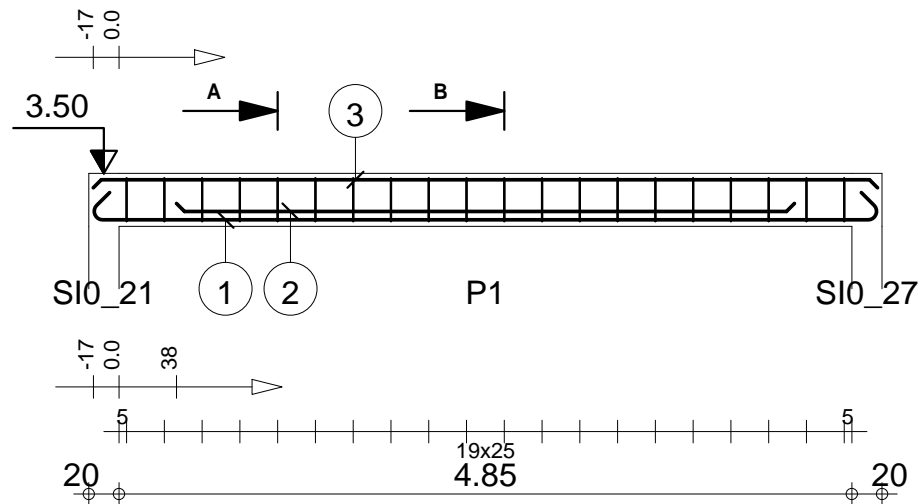


B-B

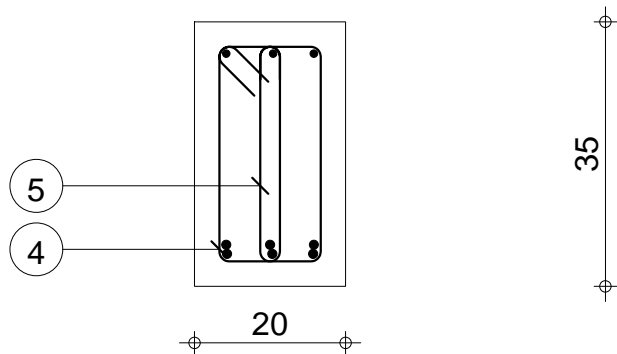


Tél.		Fax		Acier HA 400 = 55.8 kg	
Tenue au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non	
		C : P1 Section 20x35		Béton : BETON20 = 0.445 m ³ Acier RL 235 = 13.4 kg	
				Surface du coffrage = 5.78 m ² Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm	
		Nombre 1		Densité = 155.3 kg/ m ³ Echelle pour la vue 1/50 Diamètre moyen = 8.9mm Echelle pour la section 1/10	
				Page 2/96	

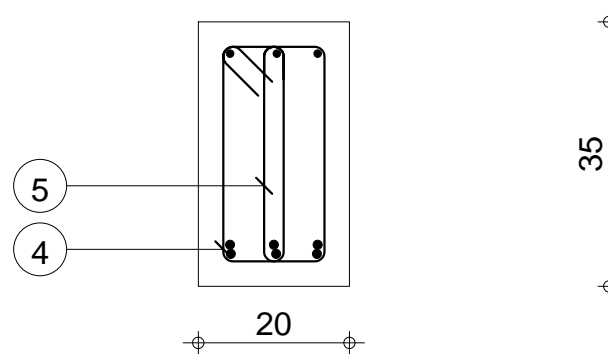
Pos.	Armature	Code	Forme
①	3HA 12 l=5.57	00	
②	3HA 12 l=4.09	00	
③	3HA 10 l=5.19	00	
④	20RL 6 l=98	31	
⑤	20RL 6 l=70		



A-A

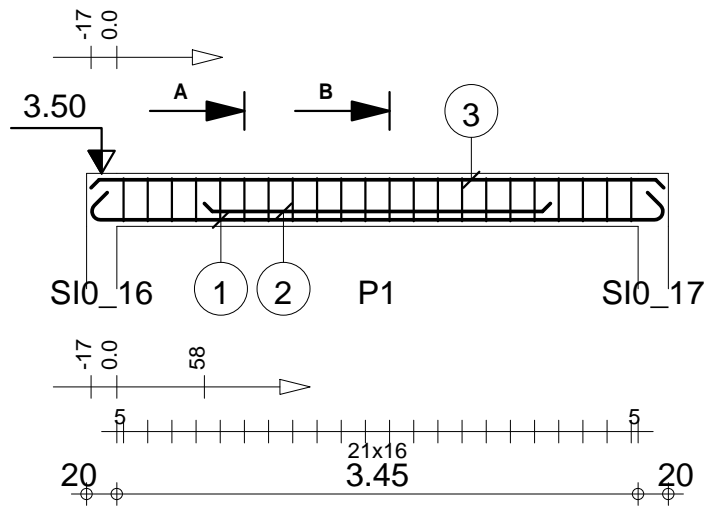


B-B

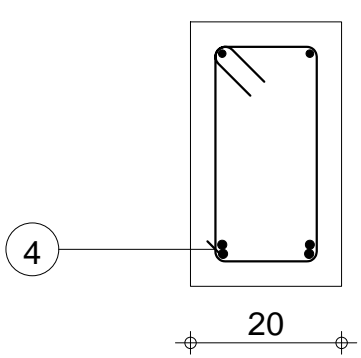


Tél.		Fax		Acier HA 400 = 35.3 kg	
Tenue au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non	
 MINHDU Haut-Nyong		F : P1 Section 20x35		Béton : BETON20 = 0.367 m ³	
				Surface du coffrage = 4.78 m ²	
		Nombre 1		Acier RL 235 = 7.43 kg	
		Densité = 116.6 kg/ m ³ Diamètre moyen = 9.03mm		Enrobage inférieur 3 cm Enrobage supérieur 3 cm	
				Enrobage latéral 3 cm	
				Echelle pour la vue 1/50	
				Echelle pour la section 1/10	
				Page 3/96	

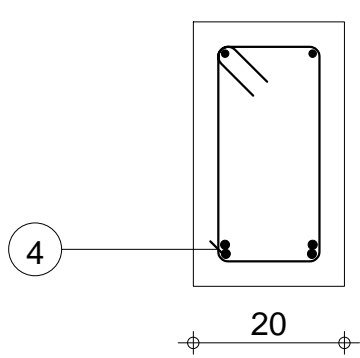
Pos.	Armature	Code	Forme
①	2HA 12 l=4.17	00	
②	2HA 12 l=2.29	00	
③	2HA 10 l=3.79	00	
④	22RL 6 l=98	31	



A-A

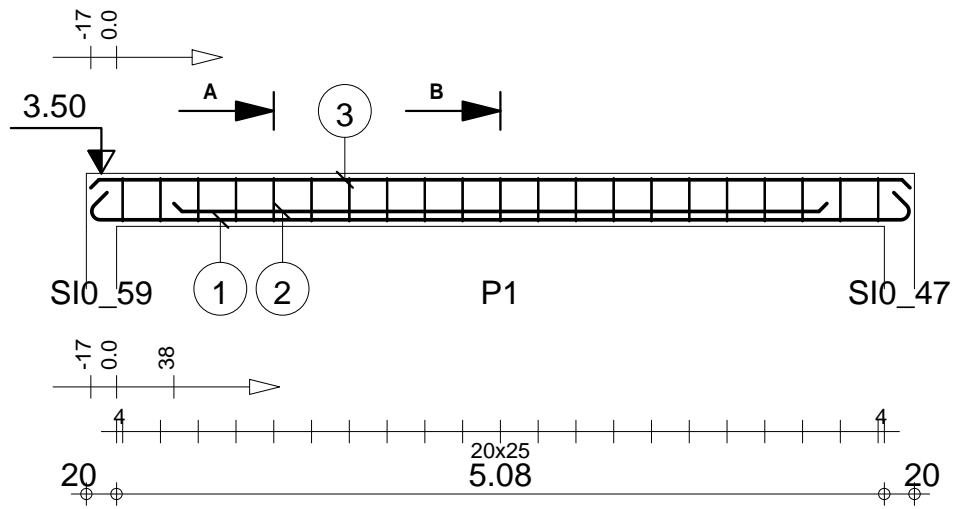


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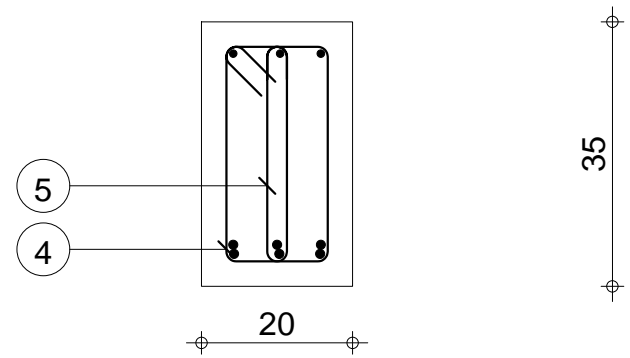


Tenu au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non		Acier HA 400 = 16.1 kg	
Tél.		Fax		Béton : BETON20 = 0.269 m ³		Acier RL 235 = 4.76 kg	
		S : P1		Surface du coffrage = 3.52 m ²		Enrobage inférieur 3 cm Enrobage supérieur 3 cm	
MINHDU Haut-Nyong		Section 20x35		Densité = 77.7 kg/ m ³		Enrobage latéral 3 cm	
		Nombre 1		Diamètre moyen = 8.57mm		Echelle pour la vue 1/50	
						Echelle pour la section 1/10	
						Page 4/96	

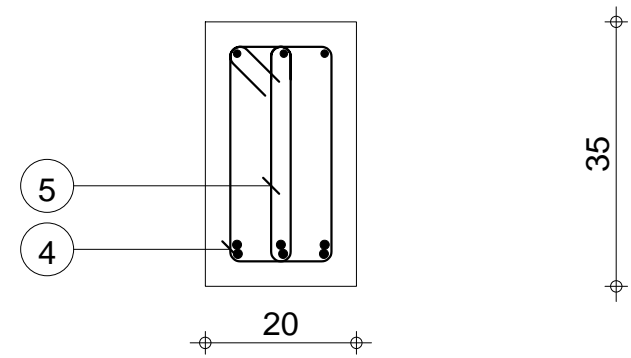
Pos.	Armature	Code	Forme
①	3HA 12 l=5.80	00	
②	3HA 12 l=4.32	00	
③	3HA 10 l=5.42	00	
④	21RL 6 l=98	31	
⑤	21RL 6 l=70		



A-A

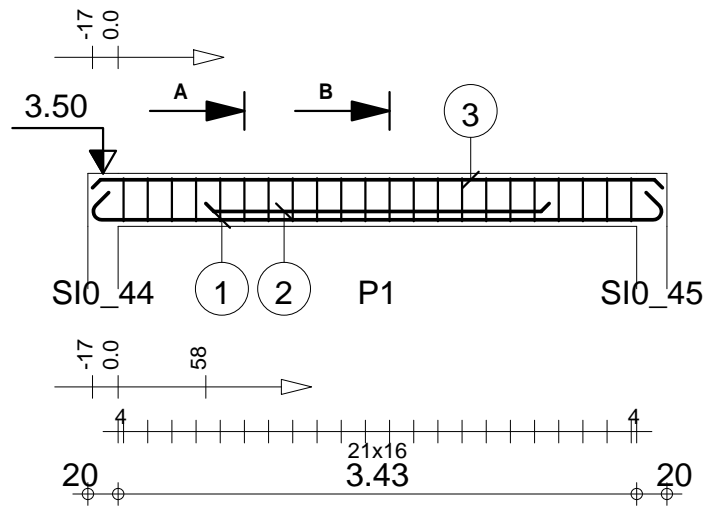


B-B

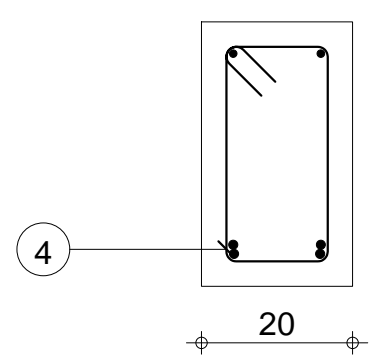


Tél.		Fax		Acier HA 400 = 37 kg	
Tenue au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non	
		Q : P1 Section 20x35		Béton : BETON20 = 0.384 m ³ Acier RL 235 = 7.8 kg	
				Surface du coffrage = 4.99 m ² Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm	
		Nombre 1		Densité = 116.7 kg/ m ³ Echelle pour la vue 1/50 Diamètre moyen = 9.02mm Echelle pour la section 1/10	
				Page 5/96	

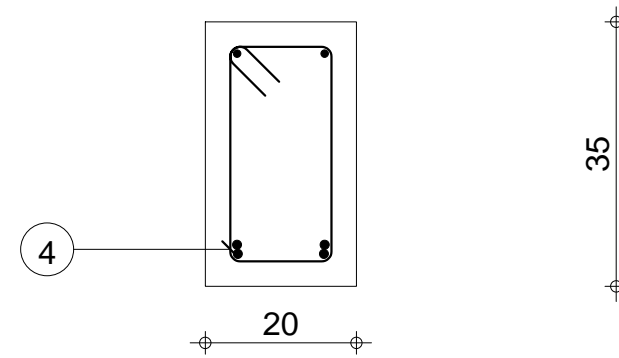
Pos.	Armature	Code	Forme
①	2HA 12 l=4.15	00	
②	2HA 12 l=2.27	00	
③	2HA 10 l=3.77	00	
④	22RL 6 l=98	31	



A-A

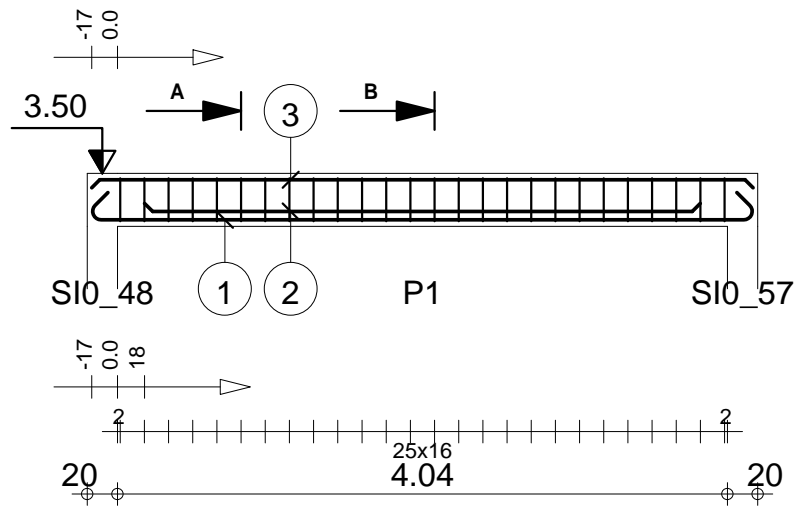


B-B

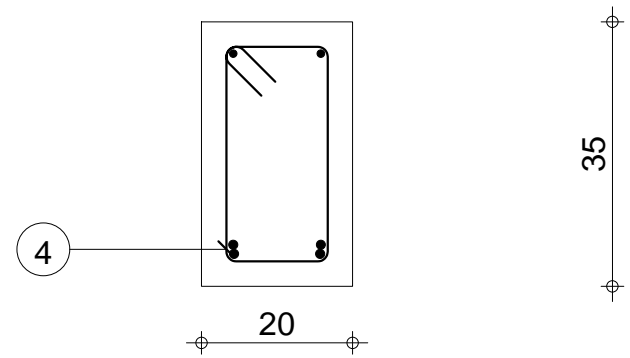


Tenu au feu 0h		Fissuration peu préjudiciable		Tél.	Fax	Acier HA 400 = 16.1 kg	
				Reprise de bétonnage : Non		Béton : BETON20 = 0.268 m ³	Acier RL 235 = 4.76 kg
	LONGRINE MINHDU Haut-Nyong	14 : P1 Section 20x35	Nombre 1	Surface du coffrage = 3.51 m ²		Enrobage inférieur 3 cm Enrobage supérieur 3 cm	
				Densité = 77.61 kg/ m ³ Diamètre moyen = 8.56mm		Enrobage latéral 3 cm	
				Echelle pour la vue 1/50		Echelle pour la section 1/10	
						Page 6/96	

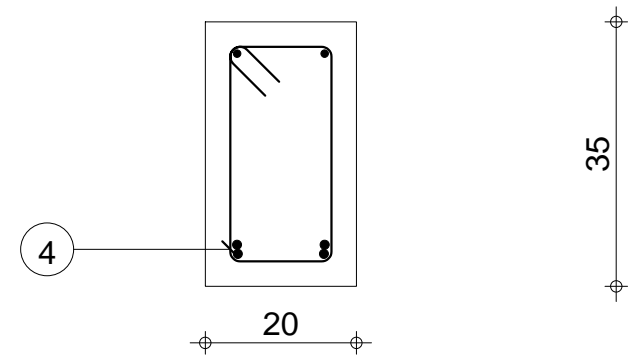
Pos.	Armature	Code	Forme
①	2HA 12 l=4.76	00	
②	2HA 12 l=3.68	00	
③	2HA 10 l=4.38	00	
④	26RL 6 l=98	31	



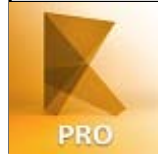
A-A



B-B



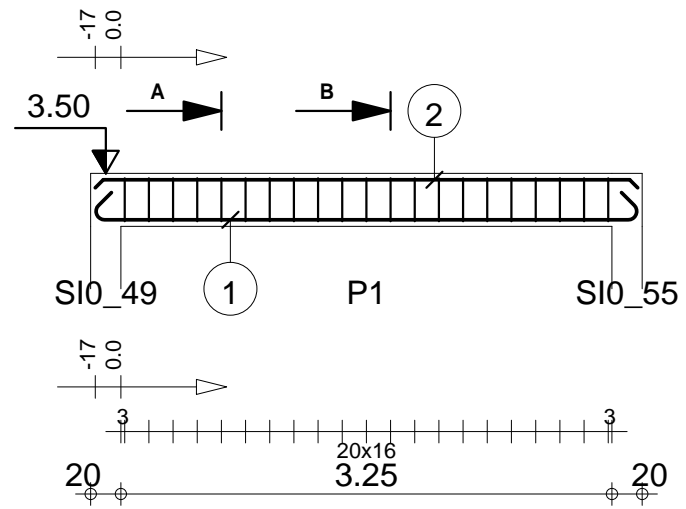
Tenu au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non		Béton : BETON20 = 0.311 m ³		Acier HA 400 = 20.4 kg		Acier RL 235 = 5.62 kg	
Surface du coffrage = 4.05 m ²		Enrobage inférieur 3 cm		Enrobage supérieur 3 cm		Enrobage latéral 3 cm		Densité = 83.6 kg/ m ³		Echelle pour la vue 1/50	
Diamètre moyen = 8.67mm		Echelle pour la section 1/10		Page 7/96							



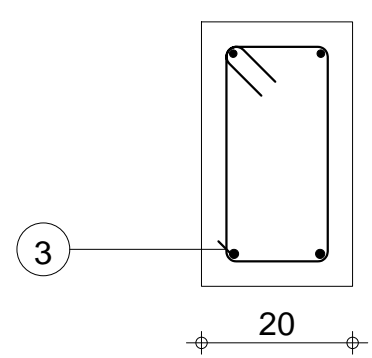
LONGRINE
MINH DU Haut-Nyong

O1 : P1
Section 20x35
Nombre 1

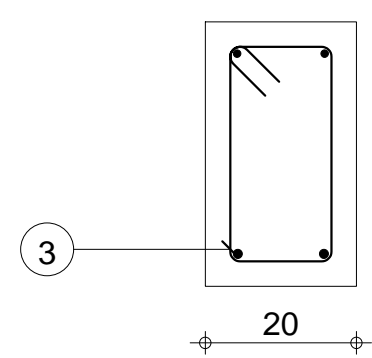
Pos.	Armature	Code	Forme
①	2HA 12 l=3.97	00	
②	2HA 10 l=3.59	00	
③	21RL 6 l=98	31	



A-A

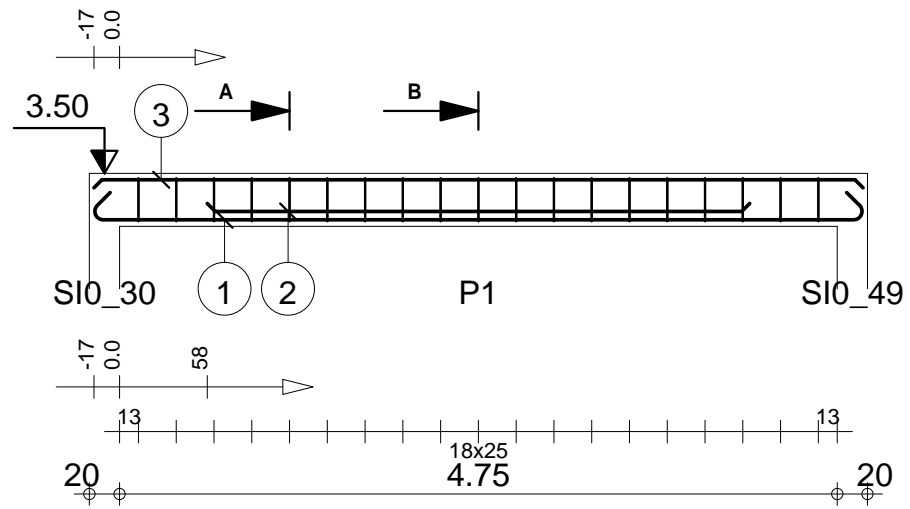


B-B

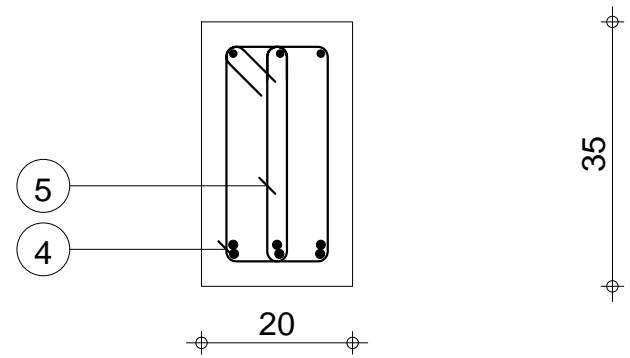


Tenu au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non		Acier HA 400 = 11.5 kg	
Tél.		Fax		Béton : BETON20 = 0.256 m ³		Acier RL 235 = 4.54 kg	
		N : P1 Section 20x35		Surface du coffrage = 3.34 m ²		Enrobage inférieur 3 cm Enrobage supérieur 3 cm	
				Densité = 62.5 kg/ m ³		Enrobage latéral 3 cm	
		Nombre 1		Diamètre moyen = 8.15mm		Echelle pour la vue 1/50 Echelle pour la section 1/10	
						Page 8/96	

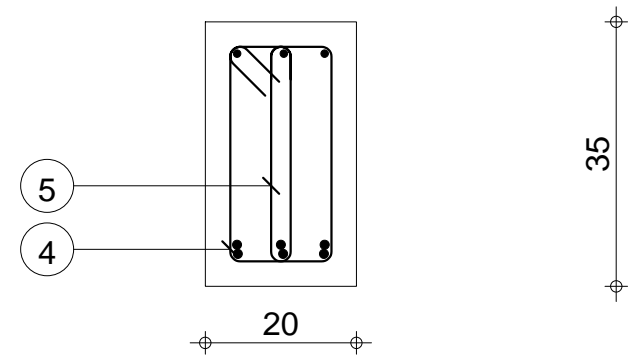
Pos.	Armature	Code	Forme
①	3HA 12 l=5.47	00	
②	3HA 12 l=3.59	00	
③	3HA 10 l=5.09	00	
④	19RL 6 l=98	31	
⑤	19RL 6 l=70		



A-A

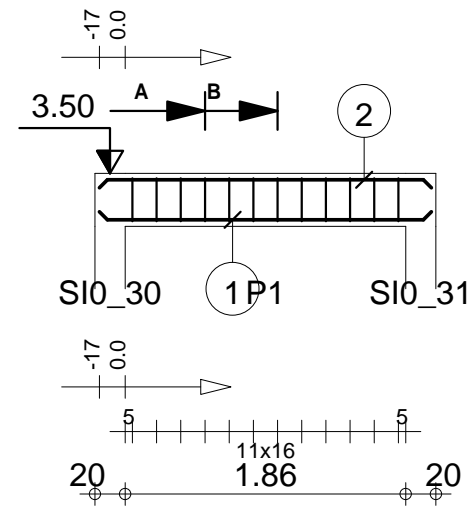


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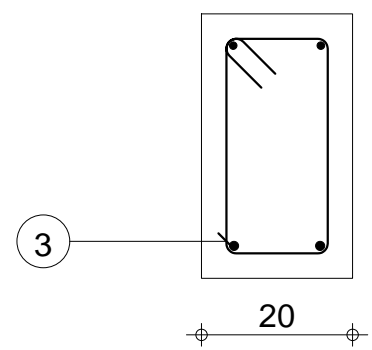


Tél.		Fax		Acier HA 400 = 33.5 kg	
Tenue au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non	
		KN : P1 Section 20x35 Nombre 1		Béton : BETON20 = 0.36 m ³	
				Acier RL 235 = 7.06 kg	
		Surface du coffrage = 4.69 m ²		Enrobage inférieur 3 cm Enrobage supérieur 3 cm	
		Enrobage latéral 3 cm			
		Densité = 112.8 kg/ m ³		Echelle pour la vue 1/50	
		Diamètre moyen = 9.02mm		Echelle pour la section 1/10	
				Page 9/96	

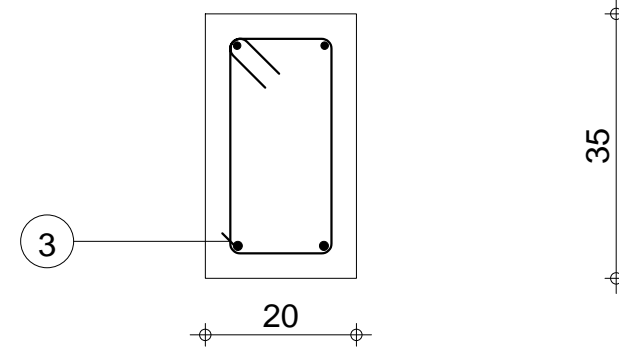
Pos.	Armature	Code	Forme
①	2HA 12 l=2.20	00	2.20
②	2HA 10 l=2.20	00	2.20
③	12RL 6 l=98	31	



A-A

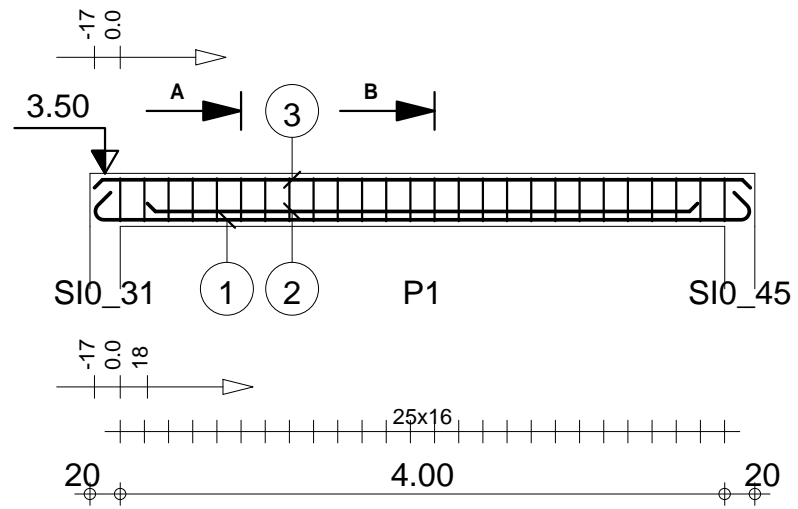


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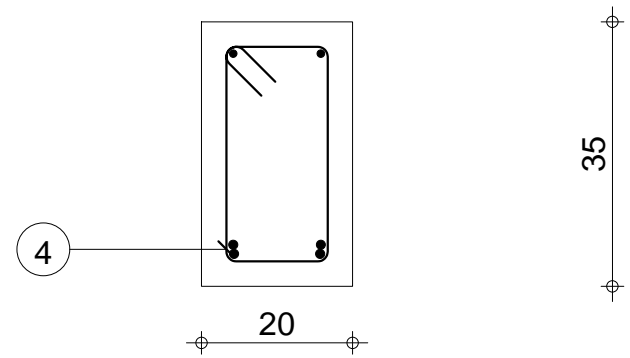


Tenu au feu 0h		Fissuration peu préjudiciable		Tél.	Fax	Béton : BETON20 = 0.158 m ³	Acier HA 400 = 6.61 kg	Acier RL 235 = 2.6 kg
		KL : P1 Section 20x35		Reprise de bétonnage : Non Nombre 1		Surface du coffrage = 2.09 m ²	Enrobage inférieur 3 cm Enrobage supérieur 3 cm	
						Densité = 58.23 kg/ m ³ Diamètre moyen = 8.15mm	Enrobage latéral 3 cm	
						Echelle pour la vue 1/50		Page 10/96
						Echelle pour la section 1/10		

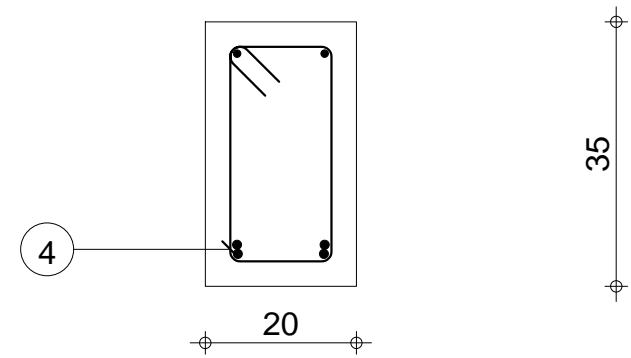
Pos.	Armature	Code	Forme
①	2HA 12 l=4.72	00	
②	2HA 12 l=3.64	00	
③	2HA 10 l=4.34	00	
④	26RL 6 l=98	31	



A-A

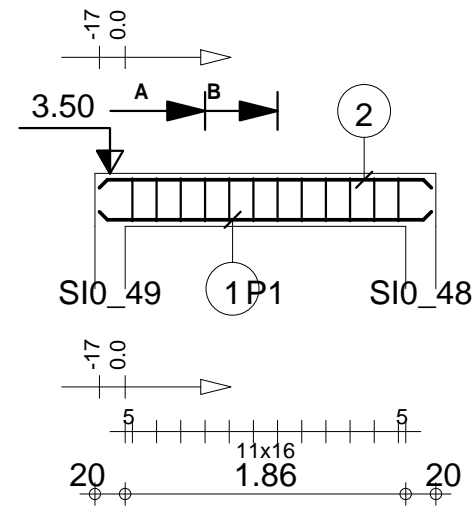


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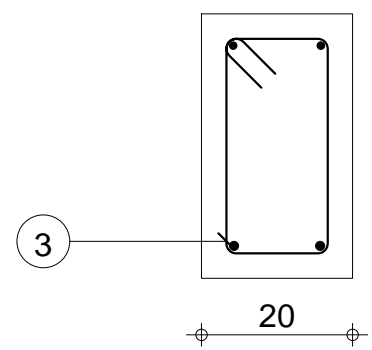


Tenu au feu 0h		Fissuration peu préjudiciable		Tél.	Fax	Acier HA 400 = 20.2 kg	
				Reprise de bétonnage : Non		Béton : BETON20 = 0.308 m ³	Acier RL 235 = 5.62 kg
	LONGRINE MINH DU Haut-Nyong	LM : P1 Section 20x35	Nombre 1	Surface du coffrage = 4.02 m ²		Enrobage inférieur 3 cm Enrobage supérieur 3 cm	
				Enrobage latéral 3 cm		Echelle pour la vue 1/50	
				Densité = 83.77 kg/ m ³		Echelle pour la section 1/10	
				Diamètre moyen = 8.66mm			

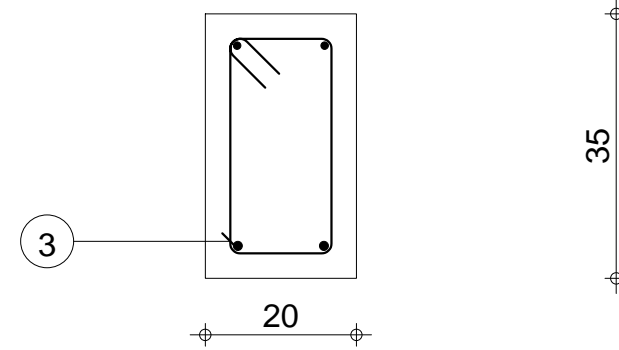
Pos.	Armature	Code	Forme
①	2HA 12 l=2.20	00	2.20
②	2HA 10 l=2.20	00	2.20
③	12RL 6 l=98	31	



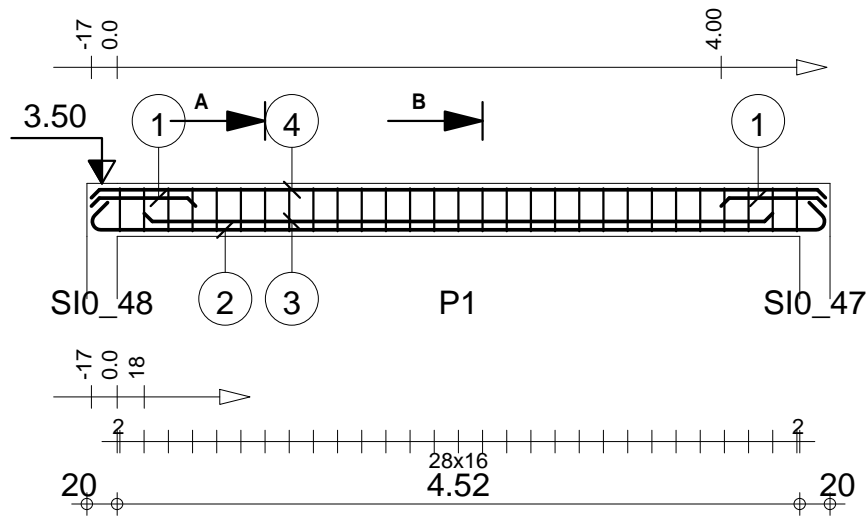
A-A



B-B

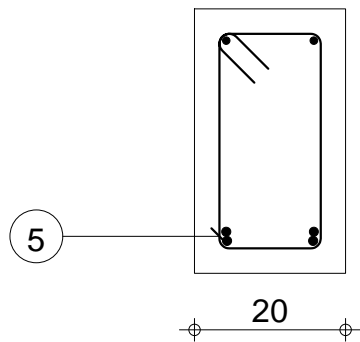


Tenu au feu 0h		Fissuration peu préjudiciable		Tél.	Fax	Béton : BETON20 = 0.158 m ³	Acier HA 400 = 6.61 kg	Acier RL 235 = 2.6 kg
		NO : P1 Section 20x35		Reprise de bétonnage : Non Nombre 1		Surface du coffrage = 2.09 m ²	Enrobage inférieur 3 cm Enrobage supérieur 3 cm	
						Densité = 58.23 kg/ m ³ Diamètre moyen = 8.15mm	Enrobage latéral 3 cm	
						Echelle pour la vue 1/50		Page 12/96
						Echelle pour la section 1/10		

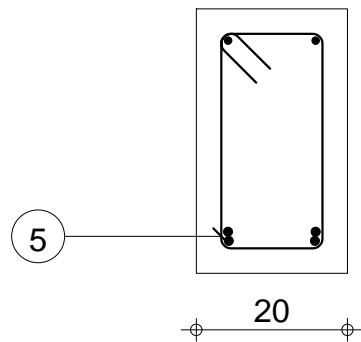


Pos.	Armature	Code	Forme
①	4HA 12 l=69	00	69
②	2HA 12 l=5.24	00	4.86
③	2HA 12 l=4.16	00	4.16
④	2HA 10 l=4.86	00	4.86
⑤	29RL 6 l=98	31	14 8

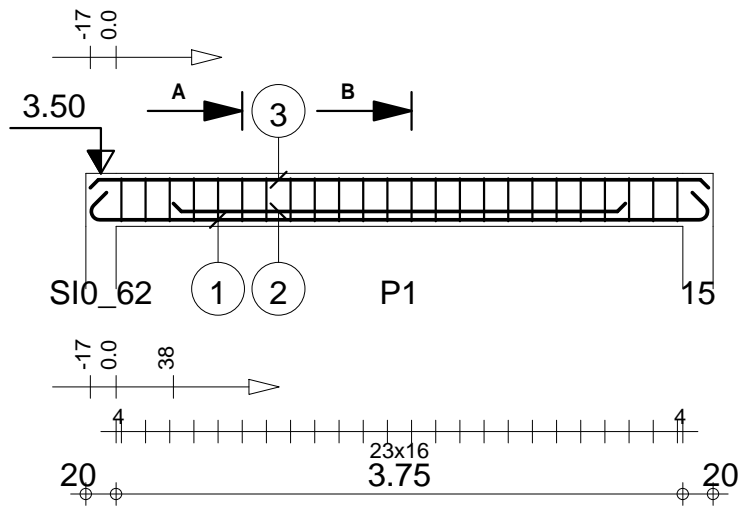
A-A



B-B

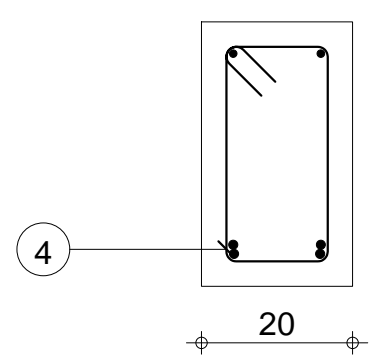


Tél.		Fax		Acier HA 400 = 25.1 kg	
Tenue au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non	
		OQ : P1 Section 20x35		Béton : BETON20 = 0.344 m ³ Acier RL 235 = 6.27 kg	
				Surface du coffrage = 4.49 m ² Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm	
		Nombre 1		Densité = 91.28 kg/ m ³ Echelle pour la vue 1/50 Diamètre moyen = 8.83mm Echelle pour la section 1/10	
				Page 13/96	

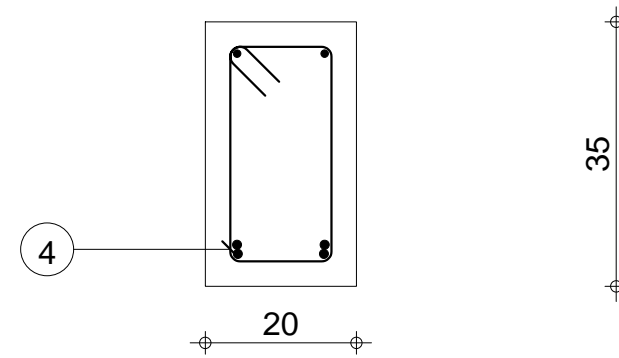


Pos.	Armature	Code	Forme
①	2HA 12 l=4.47	00	
②	2HA 12 l=2.99	00	
③	2HA 10 l=4.09	00	
④	24RL 6 l=98	31	

A-A



B-B

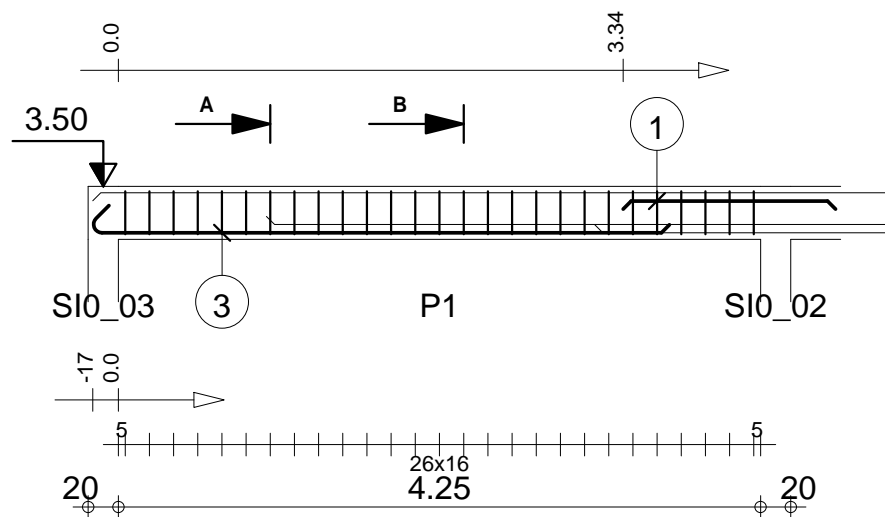


Tenu au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non		Acier HA 400 = 18.3 kg	
Tél.		Fax		Béton : BETON20 = 0.291 m ³		Acier RL 235 = 5.19 kg	
Surface du coffrage = 3.8 m ²		Densité = 80.76 kg/ m ³		Enrobage inférieur 3 cm Enrobage supérieur 3 cm		Enrobage latéral 3 cm	
Diamètre moyen = 8.63mm		Echelle pour la vue 1/50		Echelle pour la section 1/10		Page 14/96	



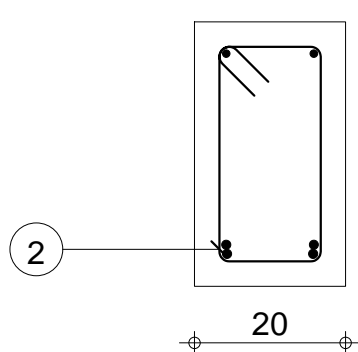
LONGRINE
MINHDU Haut-Nyong

I : P1
Section 20x35
Nombre 1

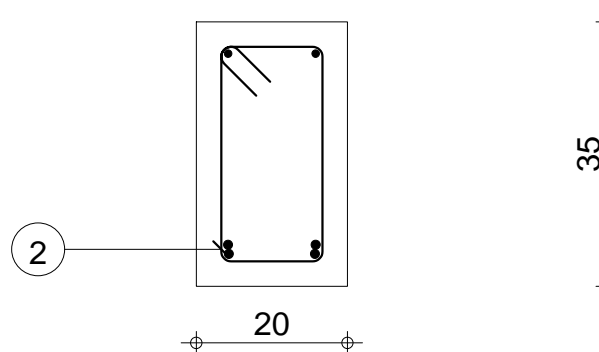


Pos.	Armature	Code	Forme
①	2HA 12 l=1.41	00	1.41
②	27RL 6 l=98	31	
③	2HA 12 l=4.01	00	3.82

A-A

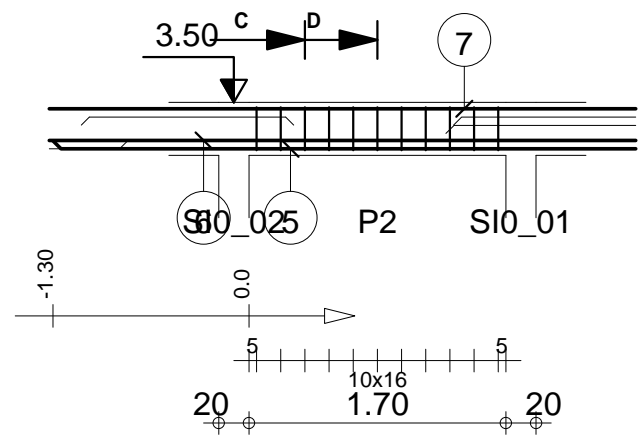


B-B

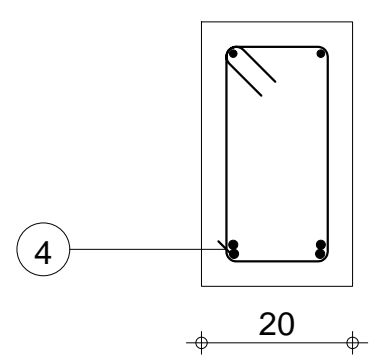


Tél.		Fax		Acier HA 400 = 9.61 kg	
Tenue au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non	
		1 : P1 Section 20x35		Béton : BETON20 = 0.319 m ³ Acier RL 235 = 5.84 kg	
				Surface du coffrage = 4.11 m ² Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm	
		Nombre 1		Densité = 48.59 kg/ m ³ Echelle pour la vue 1/50 Diamètre moyen = 7.75mm Echelle pour la section 1/10	
				Page 15/96	

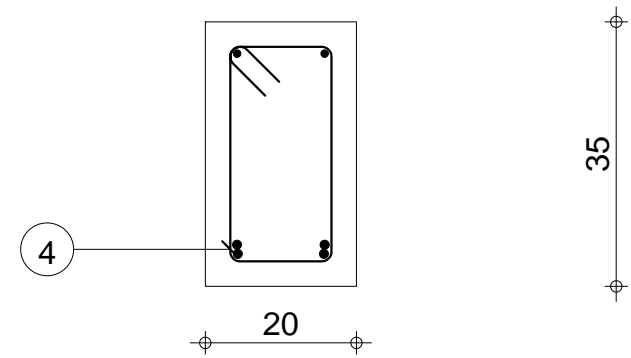
Pos.	Armature	Code	Forme
④	11RL 6 l=98	31	
⑤	2HA 12 l=4.46	00	
⑥	2HA 12 l=10.09	00	
⑦	2HA 10 l=11.79	00	



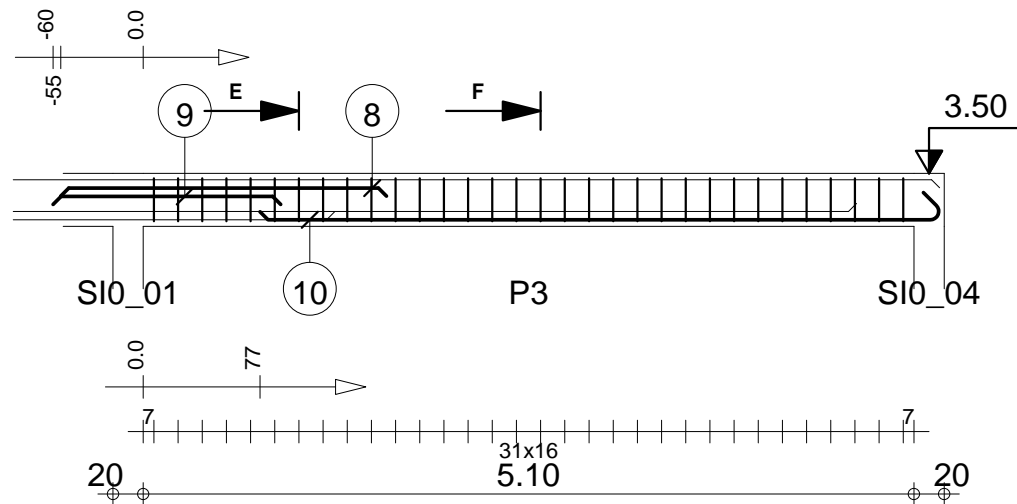
C-C



D-D

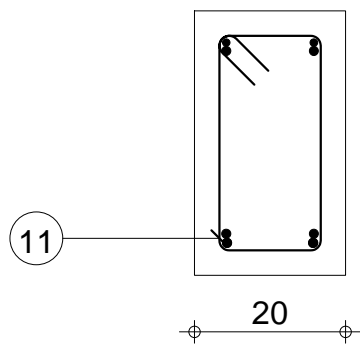


	1 : P2 Section 20x35	Nombre 1	Tél.	Fax	Acier HA 400 = 40.4 kg
			Tenue au feu 0h Fissuration peu préjudiciable Reprise de bétonnage : Non	Béton : BETON20 = 0.133 m ³ Surface du coffrage = 1.67 m ² Densité = 321.8 kg/ m ³ Diamètre moyen = 10.2mm	Acier RL 235 = 2.38 kg Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm Echelle pour la vue 1/50 Echelle pour la section 1/10
					Page 16/96

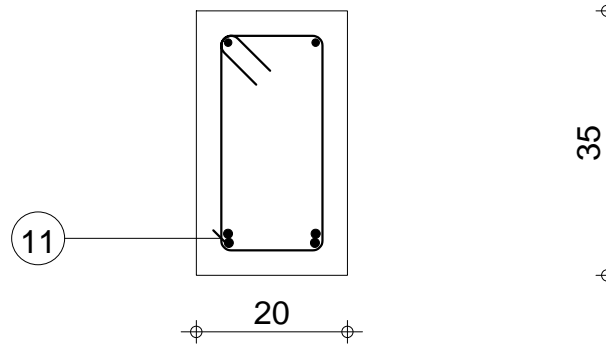


Pos.	Armature	Code	Forme
8	2HA 12 l=2.16	00	2.16
9	2HA 12 l=1.51	00	1.51
10	2HA 12 l=4.69	00	4.50
11	32RL 6 l=98	31	

E-E



F-F



Tél.

Fax

Tenue au feu 0h

Fissuration peu préjudiciable

Reprise de bétonnage : Non

Béton : BETON20 = 0.378 m³

Acier HA 400 = 14.8 kg

Acier RL 235 = 6.92 kg

Surface du coffrage = 4.87 m²

Enrobage inférieur 3 cm Enrobage supérieur 3 cm

Enrobage latéral 3 cm

Densité = 57.41 kg/ m³

Echelle pour la vue 1/50

Diamètre moyen = 8.09mm

Echelle pour la section 1/10



LONGRINE


MINHDU Haut-Nyong

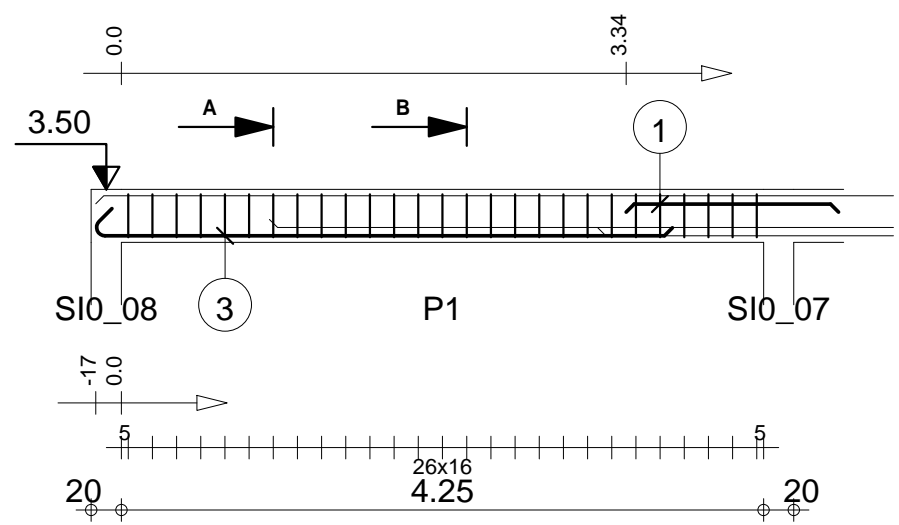
1 : P3

Section 20x35

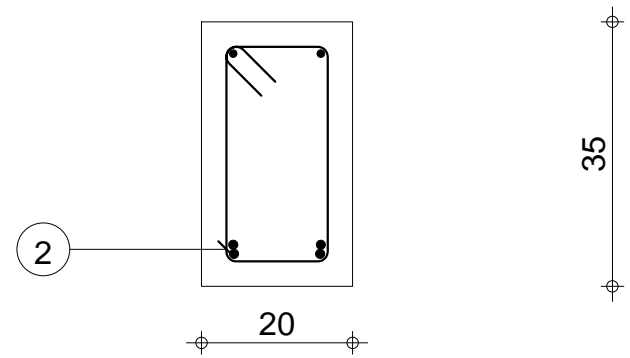
Nombre 1

Page 17/96

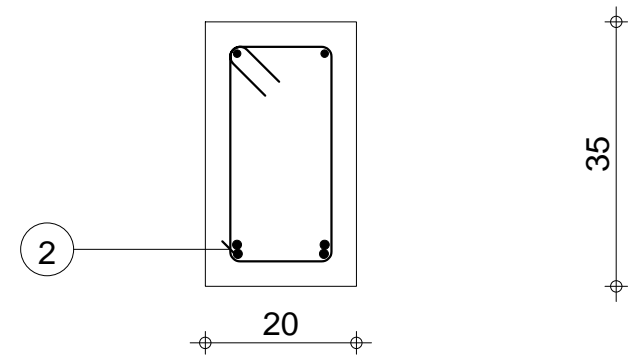
Pos.	Armature	Code	Forme
①	2HA 12 l=1.41	00	1.41
②	27RL 6 l=98	31	
③	2HA 12 l=4.01	00	3.82




A-A

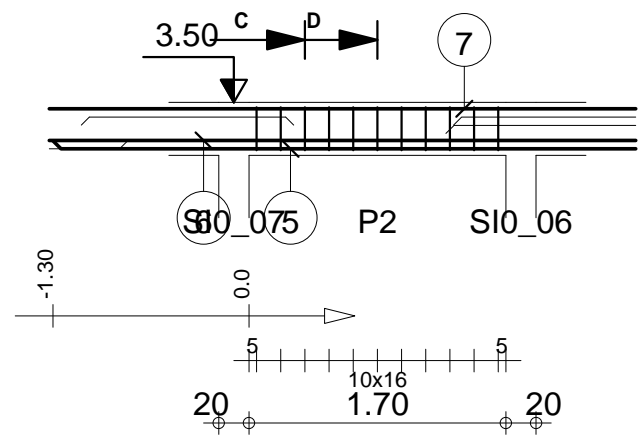


B-B

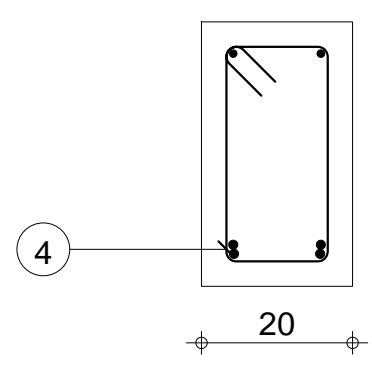


Tél.		Fax		Acier HA 400 = 9.61 kg	
Tenue au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non	
 LONGRINE MINH DU Haut-Nyong		2 : P1 Section 20x35		Béton : BETON20 = 0.319 m ³ Acier RL 235 = 5.84 kg	
				Surface du coffrage = 4.11 m ² Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm	
		Densité = 48.59 kg/ m ³ Diamètre moyen = 7.75mm		Echelle pour la vue 1/50 Echelle pour la section 1/10	
		Nombre 1		Page 18/96	

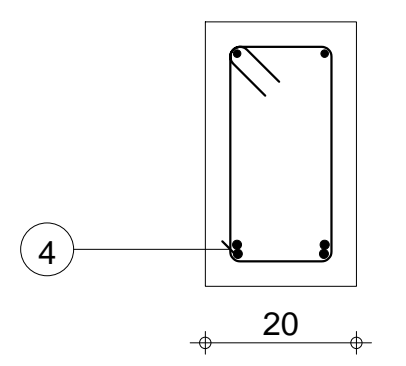
Pos.	Armature	Code	Forme
④	11RL 6 l=98	31	
⑤	2HA 12 l=4.46	00	
⑥	2HA 12 l=10.09	00	
⑦	2HA 10 l=11.79	00	



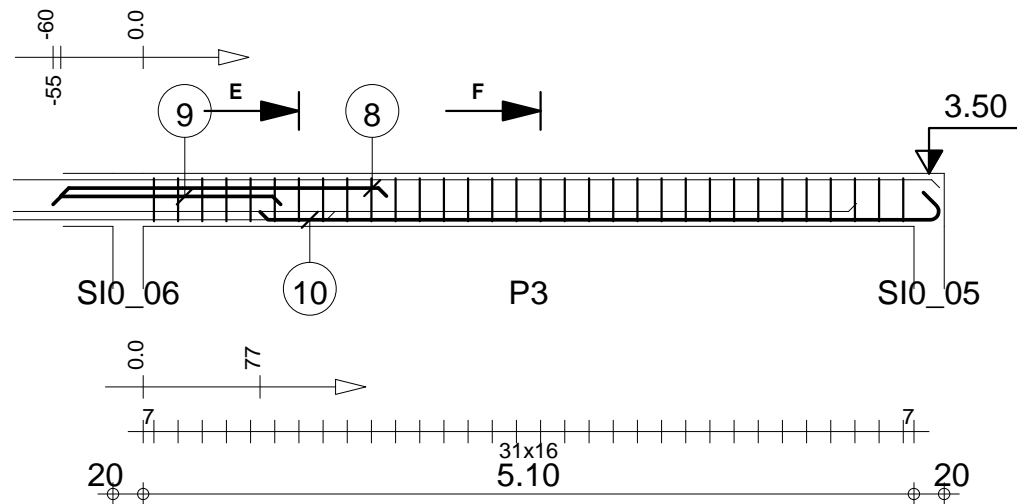
C-C



D-D

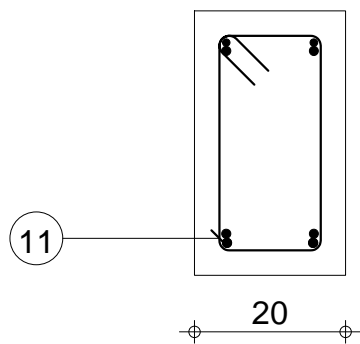


	2 : P2 Section 20x35	Nombre 1	Béton : BETON20 = 0.133 m ³	Acier HA 400 = 40.4 kg Acier RL 235 = 2.38 kg	
			Surface du coffrage = 1.67 m ²	Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm	
Tenue au feu 0h	Fissuration peu préjudiciable	Reprise de bétonnage : Non	Densité = 321.8 kg/ m ³ Diamètre moyen = 10.2mm	Echelle pour la vue 1/50 Echelle pour la section 1/10	Page 19/96

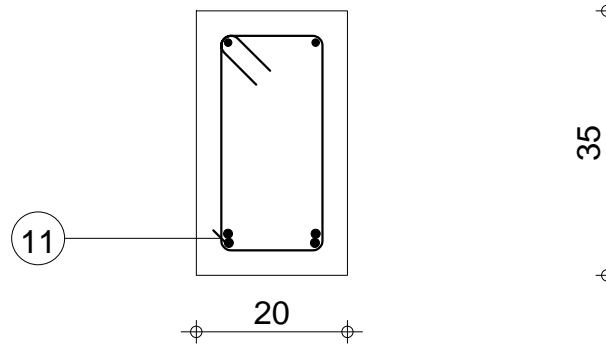


Pos.	Armature	Code	Forme
8	2HA 12 l=2.16	00	2.16
9	2HA 12 l=1.51	00	1.51
10	2HA 12 l=4.69	00	4.50
11	32RL 6 l=98	31	

E-E



F-F



Tél.

Fax

Tenue au feu 0h

Fissuration peu préjudiciable

Reprise de bétonnage : Non

Béton : BETON20 = 0.378 m³

Acier HA 400 = 14.8 kg

Acier RL 235 = 6.92 kg

Surface du coffrage = 4.87 m²

Enrobage inférieur 3 cm Enrobage supérieur 3 cm

Enrobage latéral 3 cm

Densité = 57.41 kg/ m³

Echelle pour la vue 1/50

Diamètre moyen = 8.09mm

Echelle pour la section 1/10



LONGRINE

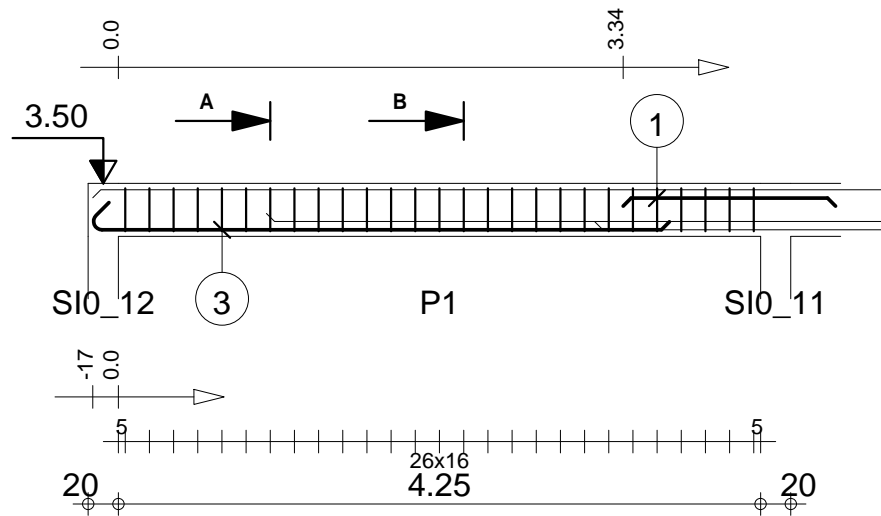
MINHDU Haut-Nyong


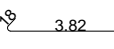
2 : P3

Section 20x35

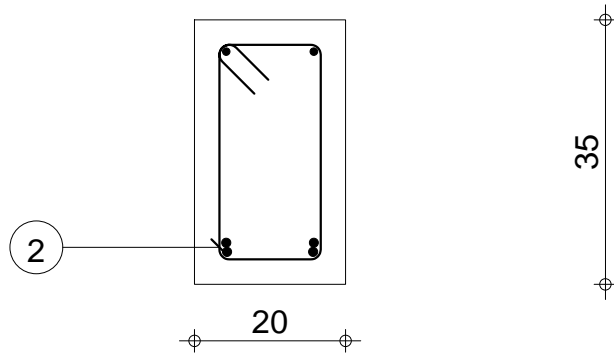
Nombre 1

Page 20/96

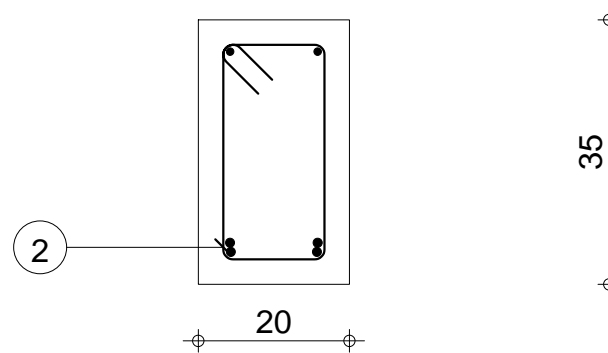




Pos.	Armature	Code	Forme
①	2HA 12	l=1.41	00 — 1.41
②	27RL 6	l=98	31 
③	2HA 12	l=4.01	00 

A-A

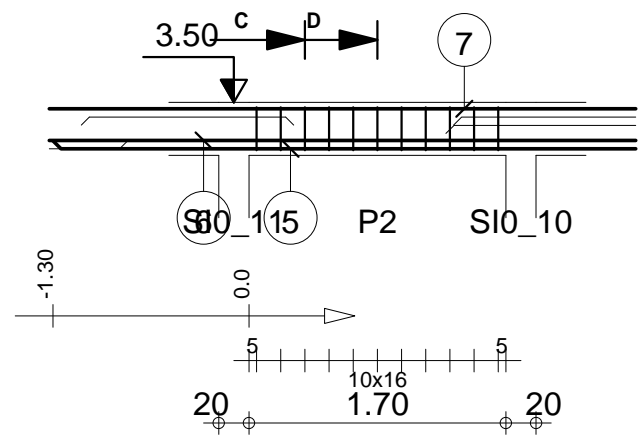


B-B

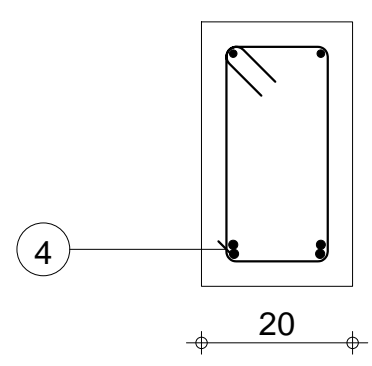


Tél.		Fax		Acier HA 400 = 9.61 kg	
Tenue au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non	
 LONGRINE MINHDU Haut-Nyong		3 : P1 Section 20x35		Béton : BETON20 = 0.319 m ³ Acier RL 235 = 5.84 kg	
				Surface du coffrage = 4.11 m ² Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm	
		Nombre 1		Densité = 48.59 kg/ m ³ Echelle pour la vue 1/50 Diamètre moyen = 7.75mm Echelle pour la section 1/10	
				Page 21/96	

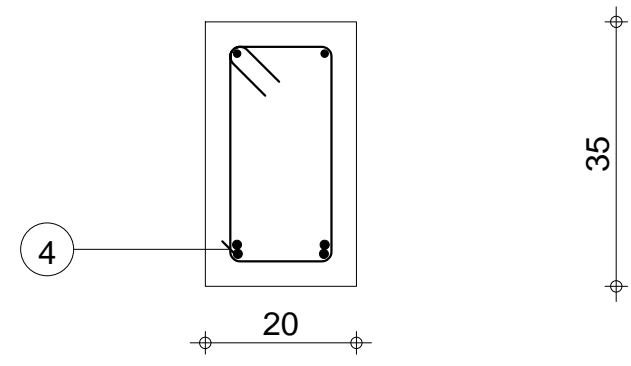
Pos.	Armature	Code	Forme
④	11RL 6 l=98	31	
⑤	2HA 12 l=4.46	00	
⑥	2HA 12 l=10.09	00	
⑦	2HA 10 l=11.79	00	



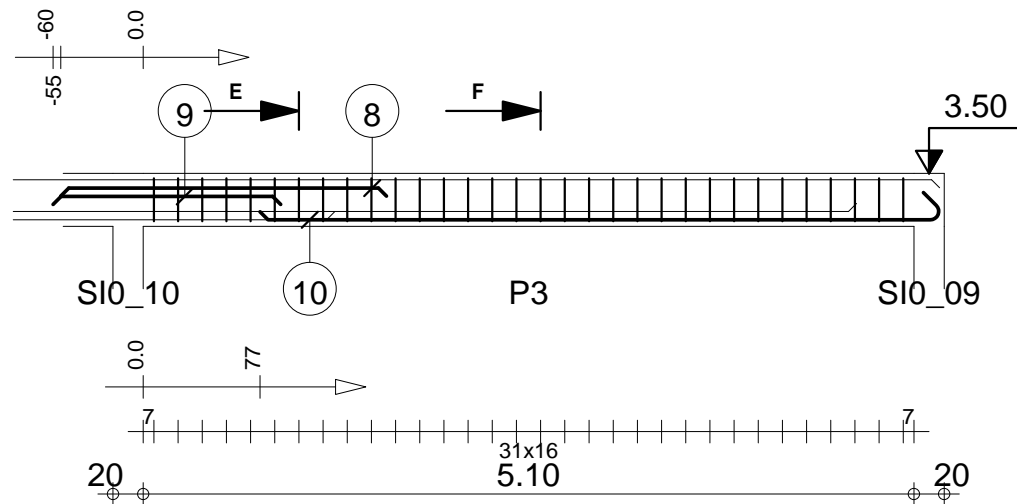
C-C



D-D

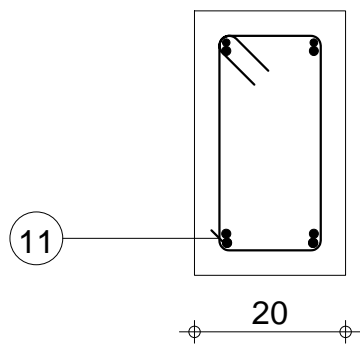


Tenu au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non		Acier HA 400 = 40.4 kg	
Tél.		Fax		Béton : BETON20 = 0.133 m ³		Acier RL 235 = 2.38 kg	
		3 : P2 Section 20x35		Surface du coffrage = 1.67 m ²		Enrobage inférieur 3 cm Enrobage supérieur 3 cm	
				Enrobage latéral 3 cm		Echelle pour la vue 1/50	
PRO		Nombre 1		Densité = 321.8 kg/ m ³		Echelle pour la section 1/10	
				Diamètre moyen = 10.2mm		Page 22/96	

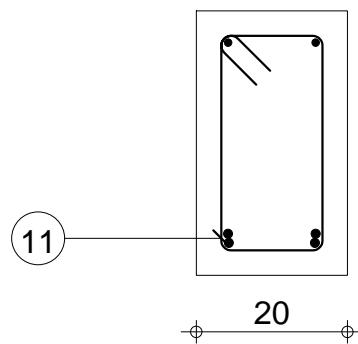


Pos.	Armature	Code	Forme
8	2HA 12 l=2.16	00	2.16
9	2HA 12 l=1.51	00	1.51
10	2HA 12 l=4.69	00	4.50
11	32RL 6 l=98	31	

E-E



F-F



Tél.

Fax

Tenue au feu 0h

Fissuration peu préjudiciable

Reprise de bétonnage : Non

Béton : BETON20 = 0.378 m³

Acier HA 400 = 14.8 kg

Acier RL 235 = 6.92 kg

Surface du coffrage = 4.87 m²

Enrobage inférieur 3 cm Enrobage supérieur 3 cm

Enrobage latéral 3 cm

Densité = 57.41 kg/ m³

Echelle pour la vue 1/50

Diamètre moyen = 8.09mm

Echelle pour la section 1/10



LONGRINE

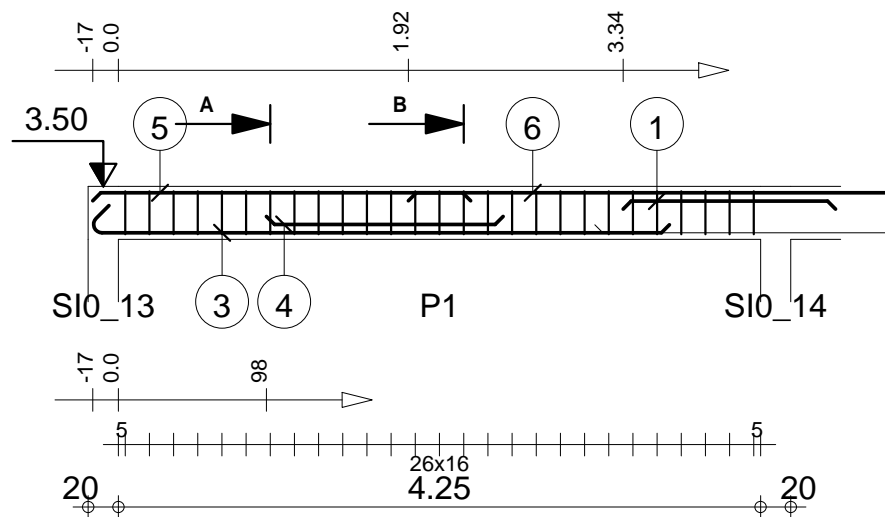
MINHDU Haut-Nyong

3 : P3

Section 20x35

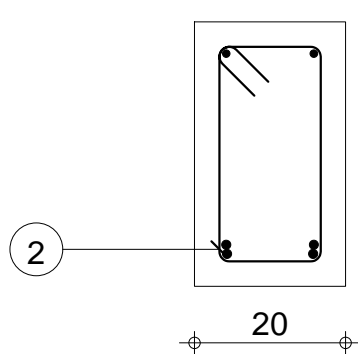
Nombre 1

Page 23/96

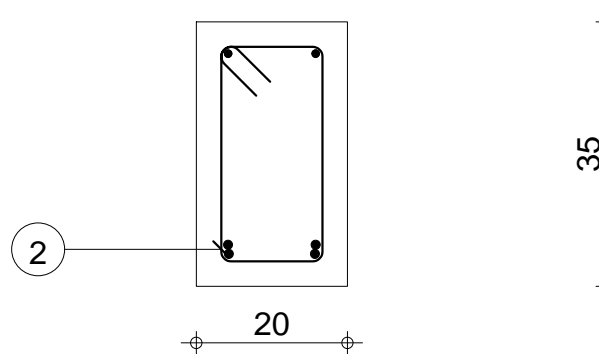


Pos.	Armature	Code	Forme
①	2HA 12 l=1.41	00	1.41
②	27RL 6 l=98	31	
③	2HA 12 l=4.01	00	3.82
④	2HA 12 l=1.57	00	1.57
⑤	2HA 10 l=2.50	00	2.50
⑥	2HA 10 l=3.59	00	3.59



A-A

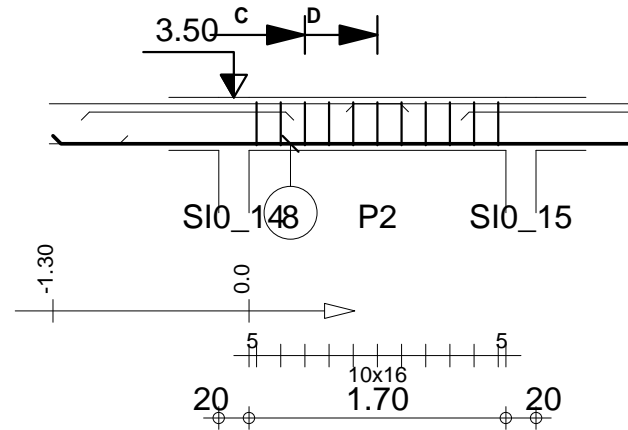


B-B

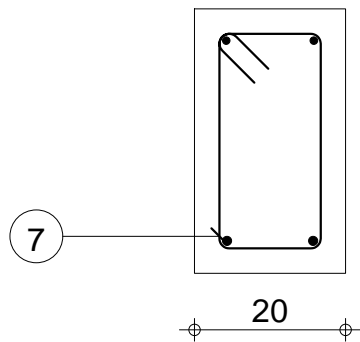


Tél.		Fax		Acier HA 400 = 19.9 kg	
Tenue au feu 0h		Fissuration peu préjudiciable		Acier RL 235 = 5.84 kg	
		Reprise de bétonnage : Non		Béton : BETON20 = 0.319 m ³	
LONGRINE		4 : P1		Surface du coffrage = 4.11 m ²	
MINHDU Haut-Nyong		Section 20x35		Enrobage inférieur 3 cm Enrobage supérieur 3 cm	
		Nombre 1		Enrobage latéral 3 cm	
				Densité = 80.56 kg/ m ³	
				Echelle pour la vue 1/50	
				Echelle pour la section 1/10	
				Page 24/96	

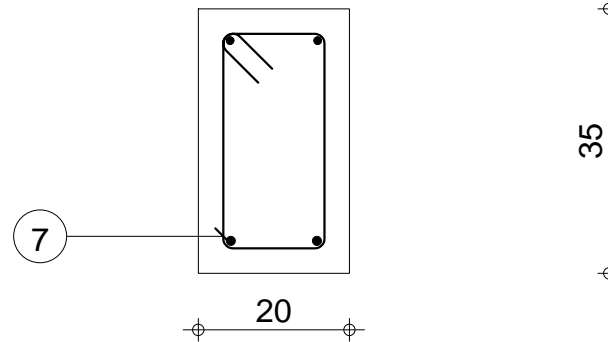
Pos.	Armature	Code	Forme
7	11RL 6 l=98	31	
8	2HA 12 l=4.46	00	




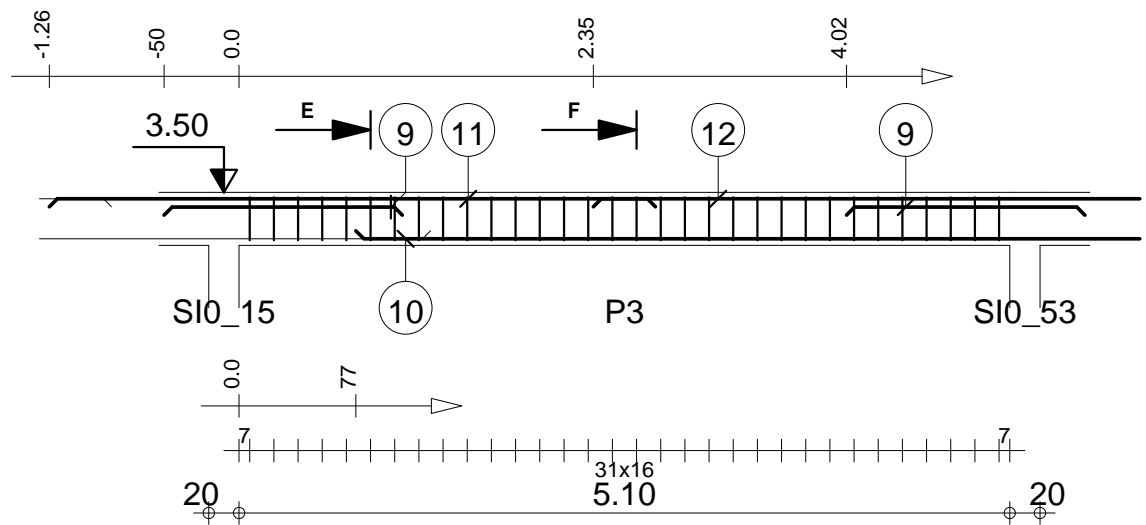
C-C



D-D



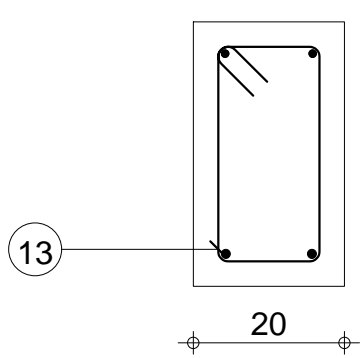
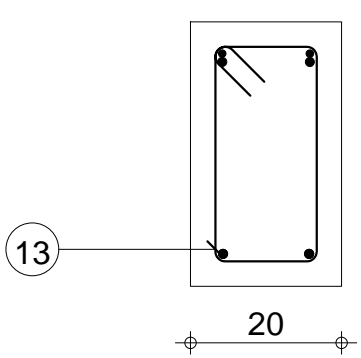
Tenu au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non		Acier HA 400 = 7.93 kg	
Tél.		Fax		Béton : BETON20 = 0.133 m ³		Acier RL 235 = 2.38 kg	
 LONGRINE MINHDU Haut-Nyong		4 : P2 Section 20x35		Surface du coffrage = 1.67 m ² Densité = 77.44 kg/ m ³ Diamètre moyen = 8.73mm		Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm Echelle pour la vue 1/50 Echelle pour la section 1/10	
		Nombre 1				Page 25/96	




Pos.	Armature	Code	Forme
9	2*2HA 12 l=1.58	00	1.58
10	2HA 12 l=6.53	00	6.53
11	2HA 10 l=4.01	00	4.01
12	2HA 10 l=5.00	00	5.00
13	32RL 6 l=98	31	

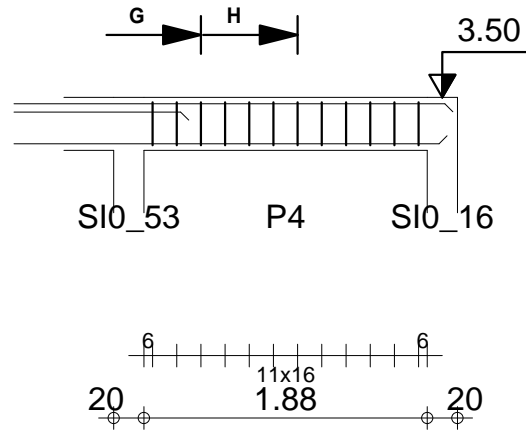
E-E

F-F

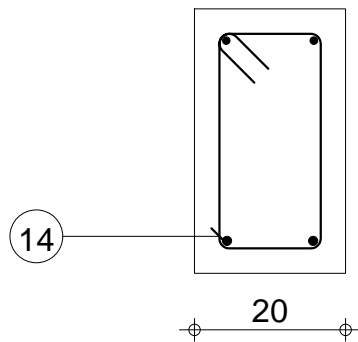


Tenu au feu 0h		Fissuration peu préjudiciable		Tél.	Fax	Béton : BETON20 = 0.371 m ³	Acier HA 400 = 28.3 kg	Acier RL 235 = 6.92 kg
		4 : P3 Section 20x35		Reprise de bétonnage : Non Nombre 1		Surface du coffrage = 4.73 m ²	Enrobage inférieur 3 cm Enrobage supérieur 3 cm	
						Densité = 94.88 kg/ m ³ Diamètre moyen = 8.75mm	Enrobage latéral 3 cm	
						Echelle pour la vue 1/50		Page 26/96
						Echelle pour la section 1/10		

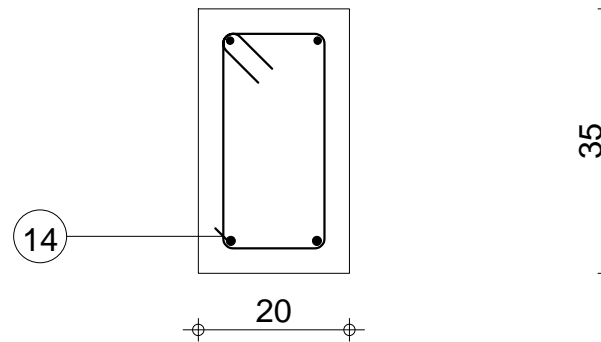
Pos.	Armature	Code	Forme
14	12RL 6	l=98	31 




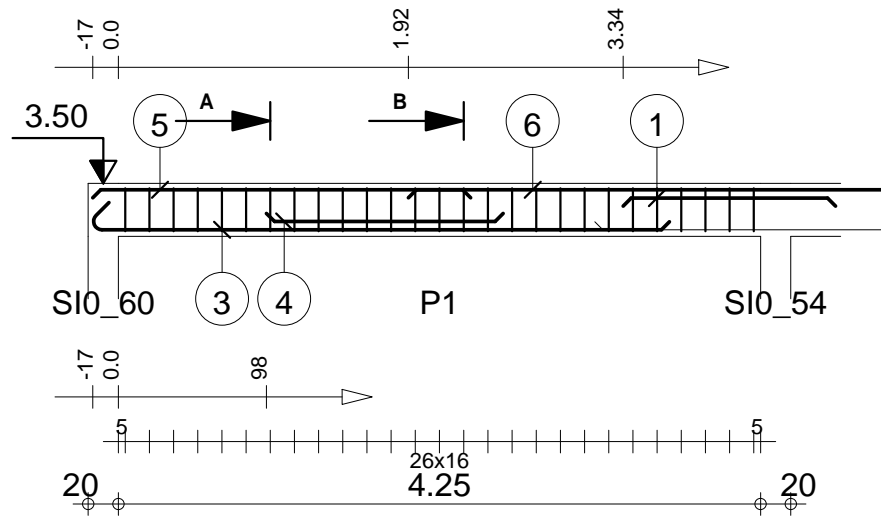
G-G


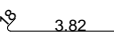


H-H

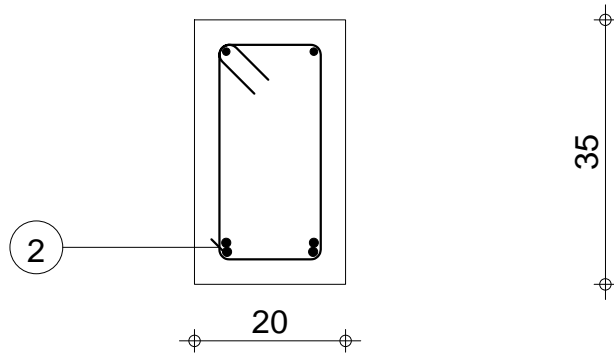


Tenu au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non		Béton : BETON20 = 0.152 m ³		Acier RL 235 = 2.6 kg	
 LONGRINE MINHDU Haut-Nyong		4 : P4 Section 20x35		Nombre 1		Surface du coffrage = 1.97 m ²		Enrobage inférieur 3 cm Enrobage supérieur 3 cm	
						Enrobage latéral 3 cm		Echelle pour la vue 1/50	
						Densité = 17.11 kg/ m ³		Page 27/96	
						Diamètre moyen = 6mm			

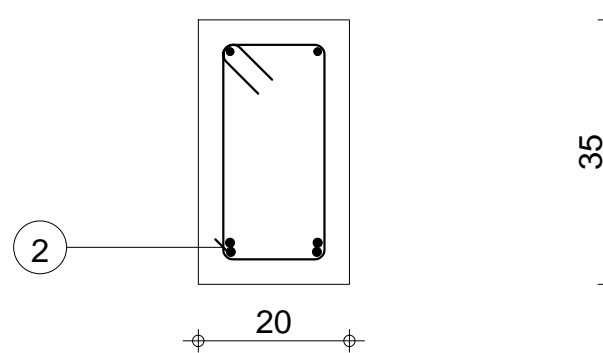



Pos.	Armature	Code	Forme
①	2HA 12	l=1.41	00 — 1.41
②	27RL 6	l=98	31 
③	2HA 12	l=4.01	00 
④	2HA 12	l=1.57	00 — 1.57
⑤	2HA 10	l=2.50	00 — 2.50
⑥	2HA 10	l=3.59	00 — 3.59

A-A

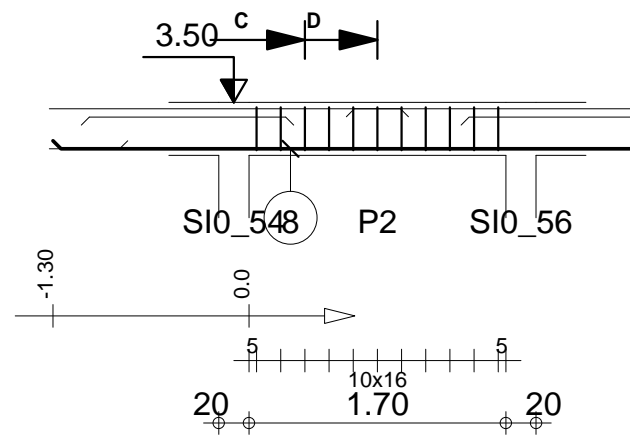


B-B

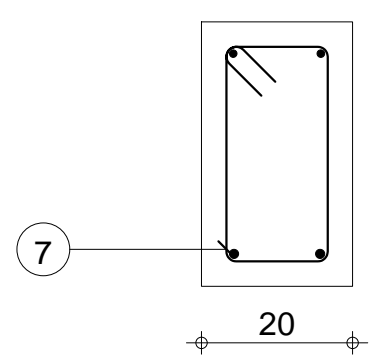


Tél.		Fax		Acier HA 400 = 19.9 kg	
Tenue au feu 0h		Fissuration peu préjudiciable		Acier RL 235 = 5.84 kg	
		Reprise de bétonnage : Non		Béton : BETON20 = 0.319 m ³	
 LONGRINE MINH DU Haut-Nyong		5 : P1 Section 20x35		Surface du coffrage = 4.11 m ²	
				Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm	
		Nombre 1		Densité = 80.56 kg/ m ³	
				Echelle pour la vue 1/50	
				Echelle pour la section 1/10	
				Page 28/96	

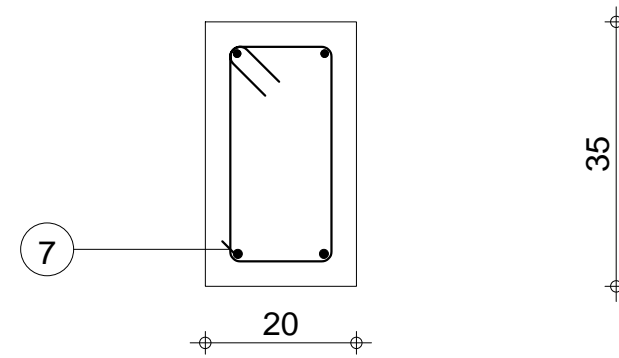
Pos.	Armature	Code	Forme
7	11RL 6 l=98	31	
8	2HA 12 l=4.32	00	



C-C

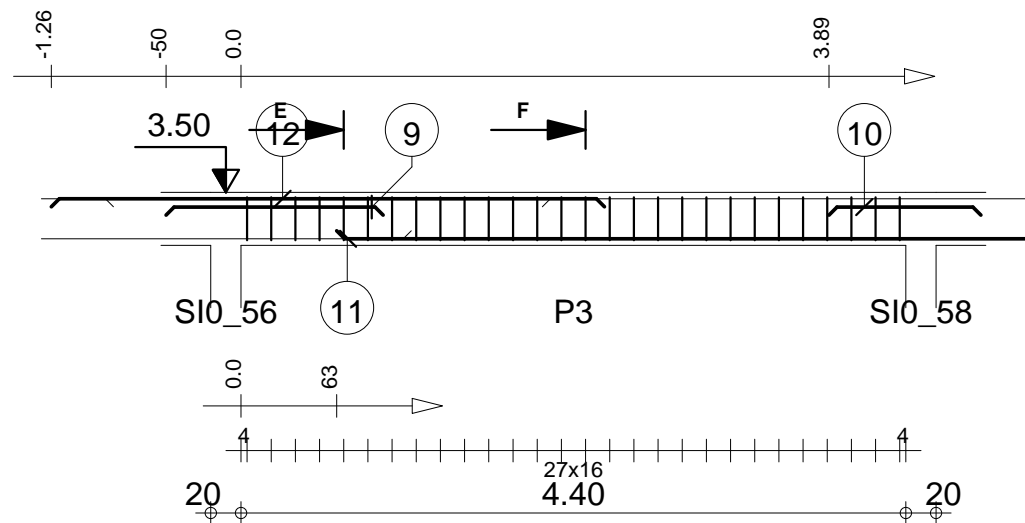


D-D



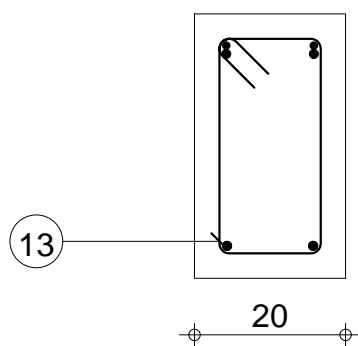
Tenue au feu 0h	Fissuration peu préjudiciable	Reprise de bétonnage : Non	Béton : BETON20 = 0.133 m ³	Acier HA 400 = 7.68 kg
			Surface du coffrage = 1.67 m ²	Acier RL 235 = 2.38 kg

	5 : P2 Section 20x35	Nombre 1	Enrobage inférieur 3 cm	Echelle pour la vue 1/50 Echelle pour la section 1/10
			Enrobage supérieur 3 cm	

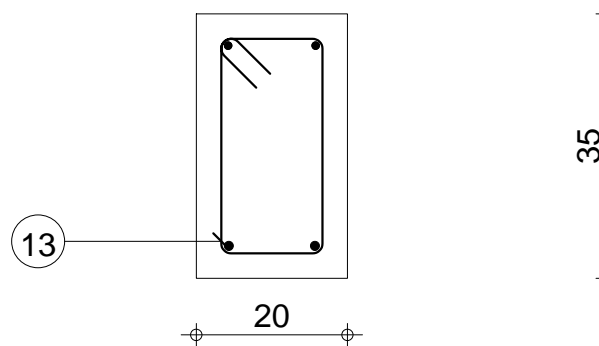


Pos.	Armature	Code	Forme
9	2HA 12 l=1.44	00	1.44
10	2HA 12 l=1.00	00	1.00
11	2HA 12 l=6.87	00	6.88
12	2HA 10 l=3.66	00	3.66
13	28RL 6 l=98	31	14 8


E-E

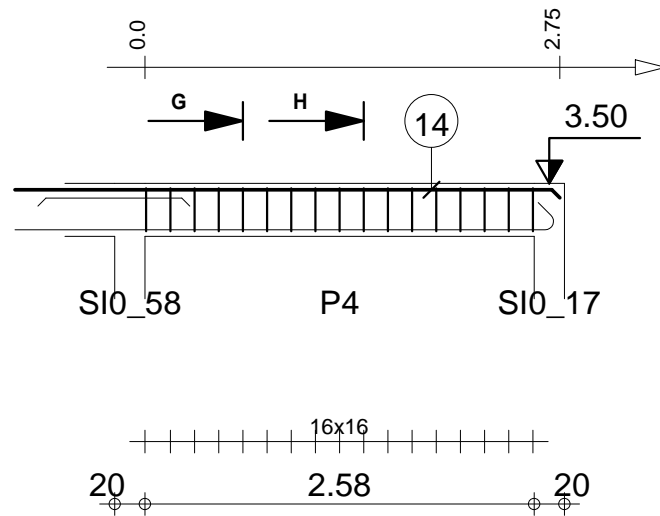


F-F

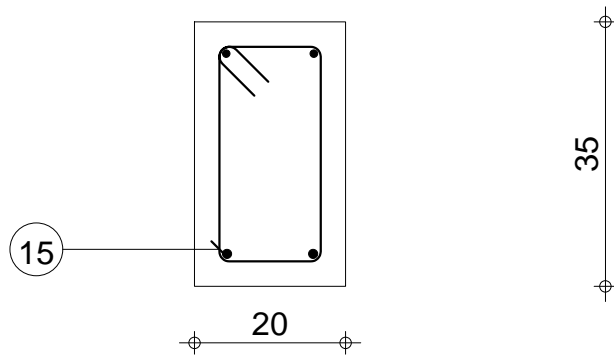


Tél.		Fax		Acier HA 400 = 21 kg	
Tenue au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non	
		5 : P3 Section 20x35		Béton : BETON20 = 0.322 m ³ Acier RL 235 = 6.06 kg	
				Surface du coffrage = 4.1 m ² Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm	
		Nombre 1		Densité = 84.16 kg/ m ³ Echelle pour la vue 1/50 Diamètre moyen = 8.65mm Echelle pour la section 1/10	
				Page 30/96	

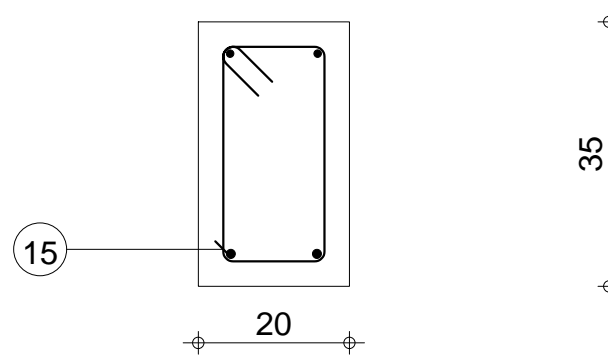
Pos.	Armature	Code	Forme
14	2HA 10	l=5.35	5.35
15	17RL 6	l=98	31 




G-G

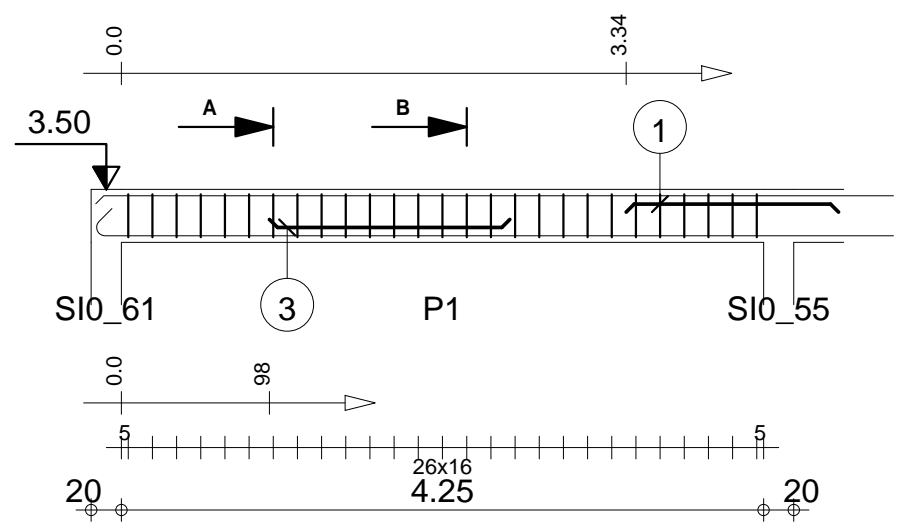


H-H

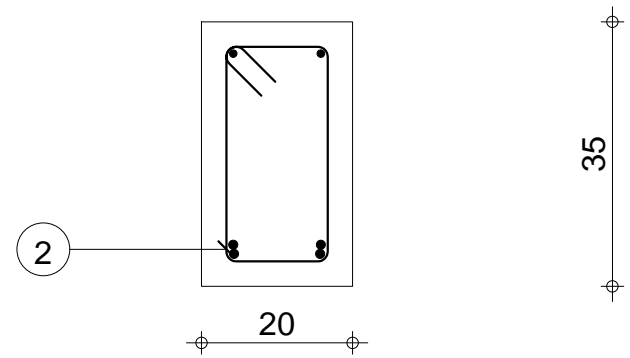


Tél.		Fax		Acier HA 400 = 6.6 kg	
Tenue au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non	
 LONGRINE MINH DU Haut-Nyong		5 : P4 Section 20x35		Béton : BETON20 = 0.201 m ³ Acier RL 235 = 3.68 kg	
				Surface du coffrage = 2.6 m ² Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm	
		Densité = 51.24 kg/ m ³ Diamètre moyen = 7.57mm		Echelle pour la vue 1/50 Echelle pour la section 1/10	
		Nombre 1		Page 31/96	

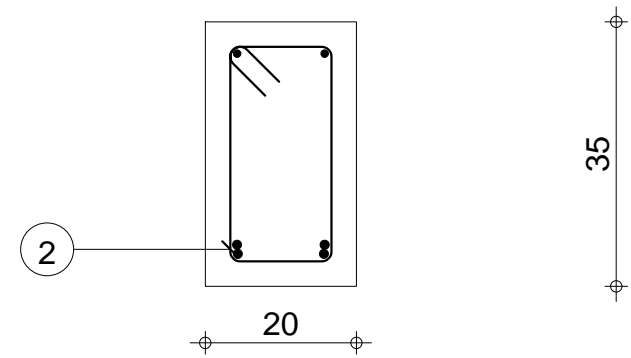
Pos.	Armature	Code	Forme
①	2HA 12 l=1.41	00	1.41
②	27RL 6 l=98	31	
③	2HA 12 l=1.59	00	1.59



A-A

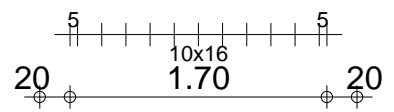
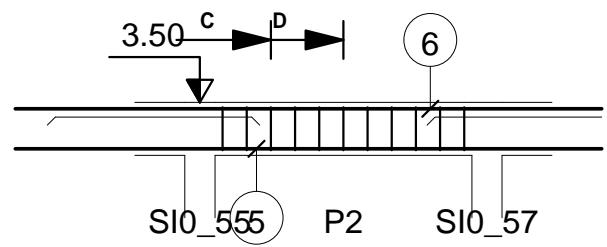


B-B

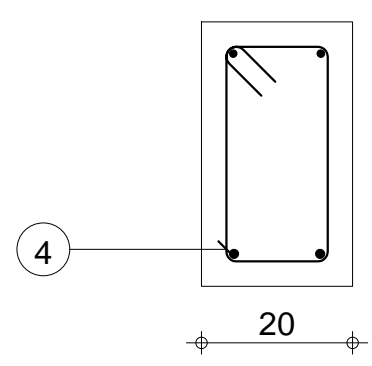


Tél.		Fax		Acier HA 400 = 5.32 kg	
Tenue au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non	
		6 : P1 Section 20x35		Béton : BETON20 = 0.319 m ³ Acier RL 235 = 5.84 kg	
				Surface du coffrage = 4.11 m ² Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm	
		Nombre 1		Densité = 35.11 kg/ m ³ Echelle pour la vue 1/50 Diamètre moyen = 7.11mm Echelle pour la section 1/10	
				Page 32/96	

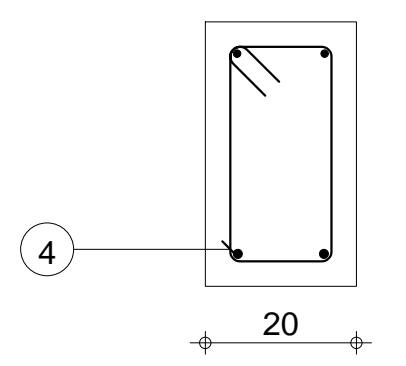
Pos.	Armature	Code	Forme
④	11RL 6 l=98	31	
⑤	2HA 12 l=11.47	00	
⑥	2HA 10 l=11.09	00	




C-C

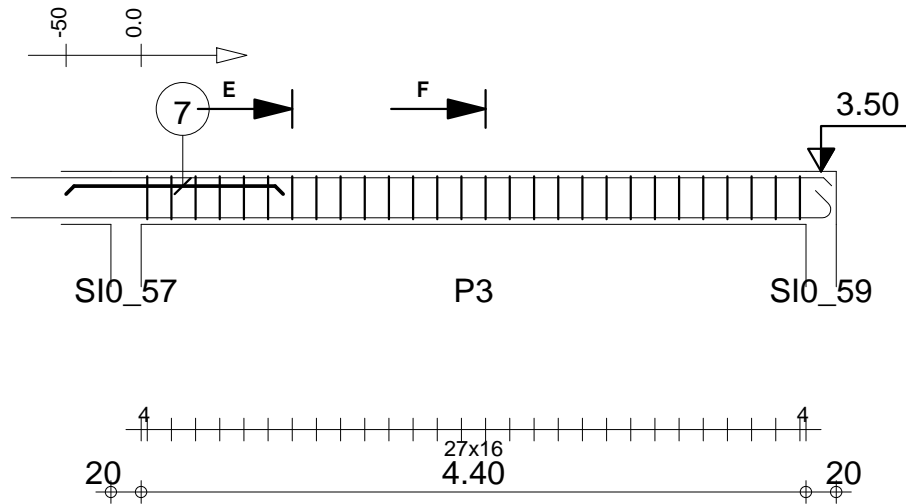


D-D



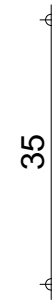
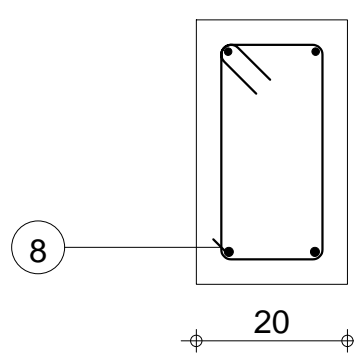
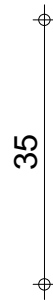
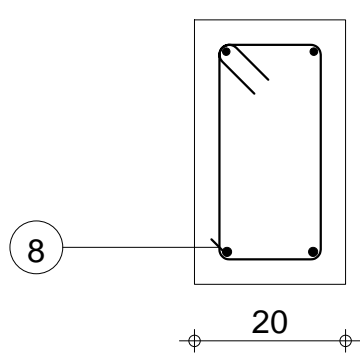
Tenu au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non		Acier HA 400 = 34 kg	
Tél.		Fax		Béton : BETON20 = 0.133 m ³		Acier RL 235 = 2.38 kg	
		6 : P2 Section 20x35		Surface du coffrage = 1.67 m ² Densité = 273.7 kg/ m ³ Diamètre moyen = 10.1mm		Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm	
						Echelle pour la vue 1/50 Echelle pour la section 1/10	

Pos.	Armature	Code	Forme
7	2HA 12 l=1.44	00	1.44
8	28RL 6 l=98	31	



E-E

F-F



Tenu au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non		Acier HA 400 = 2.55 kg	
Tél.		Fax		Béton : BETON20 = 0.329 m ³		Acier RL 235 = 6.06 kg	
Surface du coffrage = 4.24 m ²		Enrobage inférieur 3 cm		Enrobage supérieur 3 cm		Enrobage latéral 3 cm	
Densité = 26.17 kg/ m ³		Echelle pour la vue 1/50		Echelle pour la section 1/10		Page 34/96	
Diamètre moyen = 6.57mm							

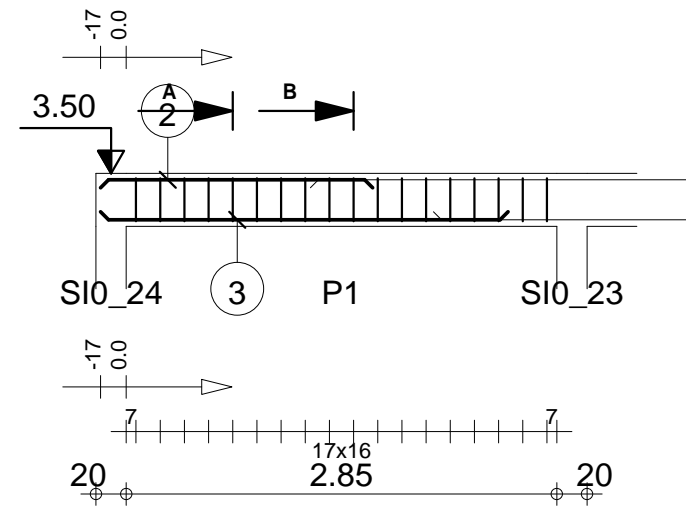


LONGRINE
MINHDU Haut-Nyong

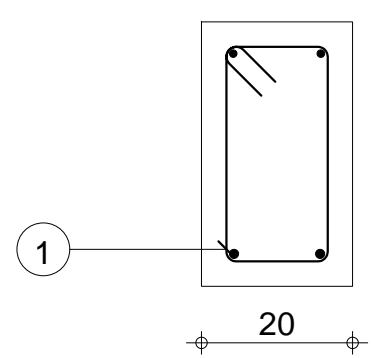
6 : P3
Section 20x35

Nombre 1

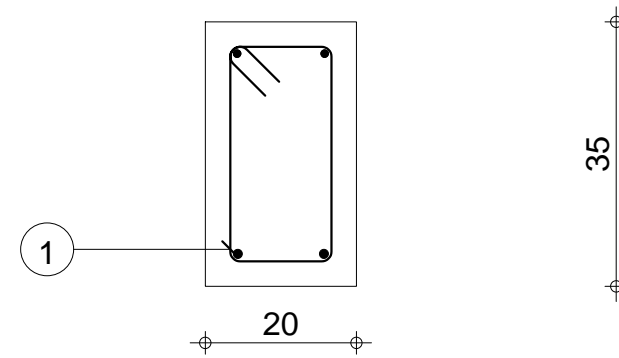
Pos.	Armature	Code	Forme
①	18RL 6 l=98	31	
②	2HA 10 l=1.80	00	
③	2HA 12 l=2.70	00	



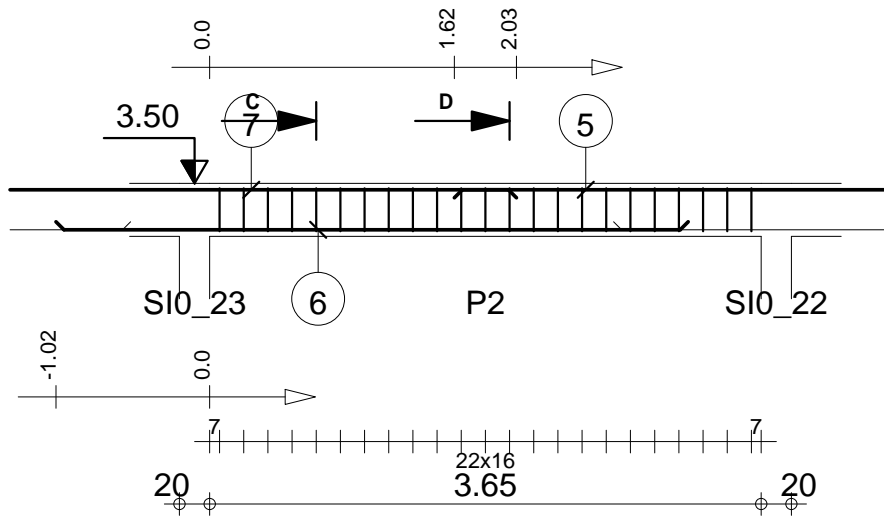
A-A



B-B

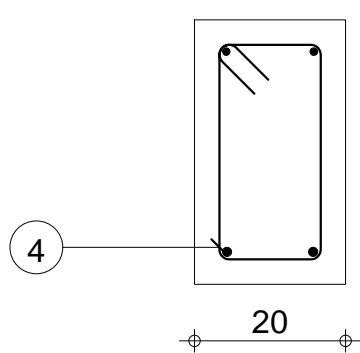


Tenu au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non		Béton : BETON20 = 0.22 m ³		Acier HA 400 = 7.01 kg		Acier RL 235 = 3.89 kg	
		7 : P1 Section 20x35		Nombre 1		Surface du coffrage = 2.84 m ²		Enrobage inférieur 3 cm		Enrobage supérieur 3 cm	
						Densité = 49.55 kg/ m ³		Enrobage latéral 3 cm		Echelle pour la vue 1/50	
						Diamètre moyen = 7.76mm		Echelle pour la section 1/10			

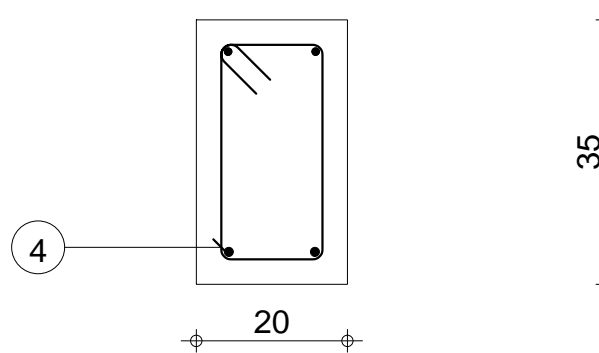


Pos.	Armature	Code	Forme
④	23RL 6	l=98	31
⑤	2HA 10	l=4.26	00
⑥	2HA 12	l=4.18	00
⑦	2HA 10	l=3.86	00

C-C

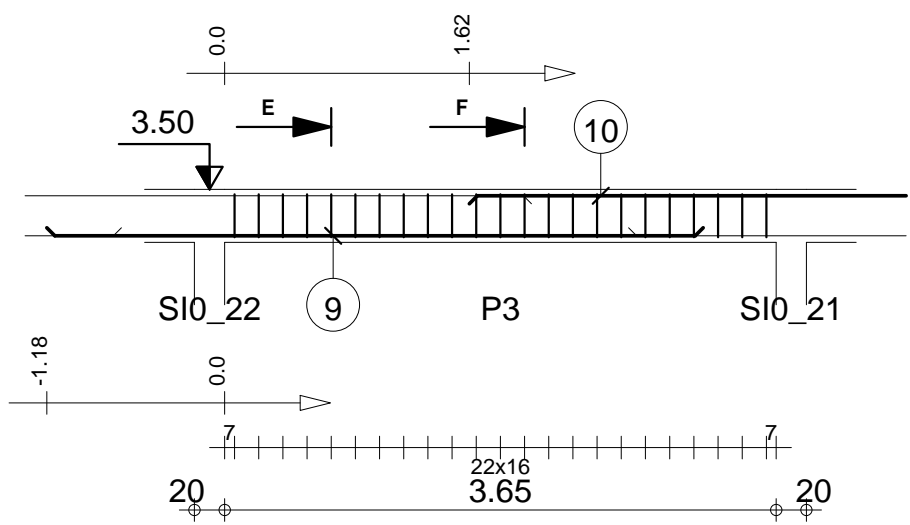


D-D

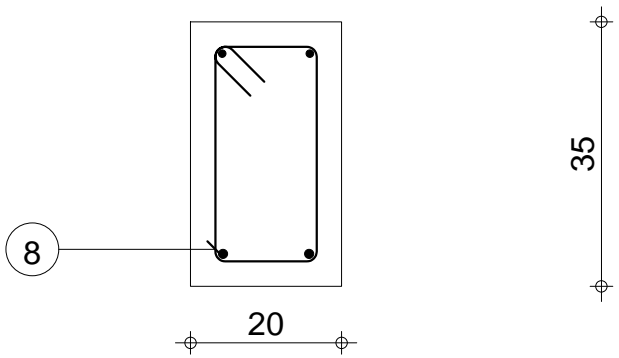


Tél.		Fax		Acier HA 400 = 17.4 kg	
Tenue au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non	
		7 : P2 Section 20x35		Béton : BETON20 = 0.27 m ³	
				Surface du coffrage = 3.42 m ²	
		Nombre 1		Acier RL 235 = 4.97 kg	
				Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm	
		Densité = 82.96 kg/ m ³ Diamètre moyen = 8.45mm		Echelle pour la vue 1/50 Echelle pour la section 1/10	
				Page 36/96	

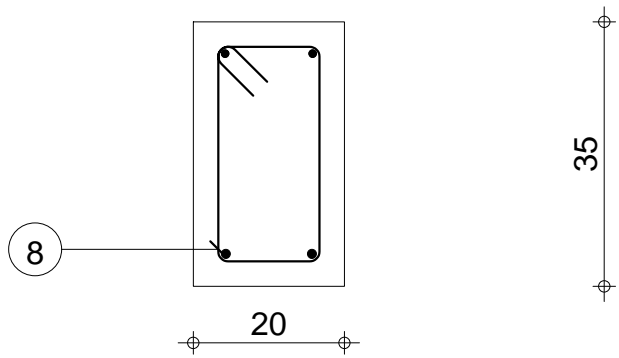
Pos.	Armature	Code	Forme
8	23RL 6 l=98	31	
9	2HA 12 l=4.34	00	
10	2HA 10 l=4.26	00	



E-E

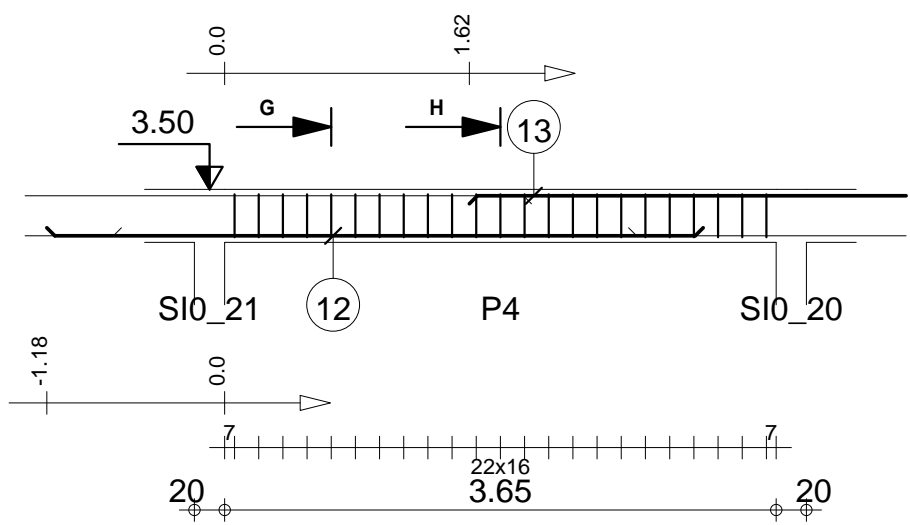


F-F

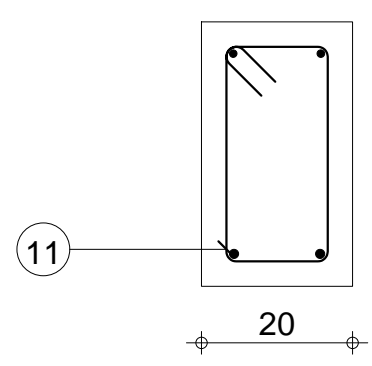


Tenu au feu 0h		Fissuration peu préjudiciable		Tél.	Fax	Acier HA 400 = 13 kg	
				Reprise de bétonnage : Non		Béton : BETON20 = 0.27 m ³	Acier RL 235 = 4.97 kg
	LONGRINE MINH DU Haut-Nyong	7 : P3 Section 20x35	Nombre 1	Surface du coffrage = 3.42 m ²		Enrobage inférieur 3 cm Enrobage supérieur 3 cm	
				Densité = 66.3 kg/ m ³ Diamètre moyen = 8.18mm		Enrobage latéral 3 cm	
						Echelle pour la vue 1/50	
						Echelle pour la section 1/10	
						Page 37/96	

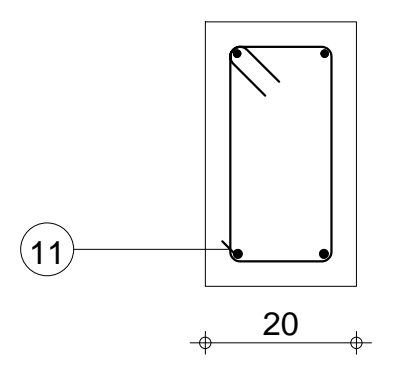
Pos.	Armature	Code	Forme
11	23RL 6 l=98	31	
12	2HA 12 l=4.34	00	
13	2HA 10 l=3.96	00	



G-G

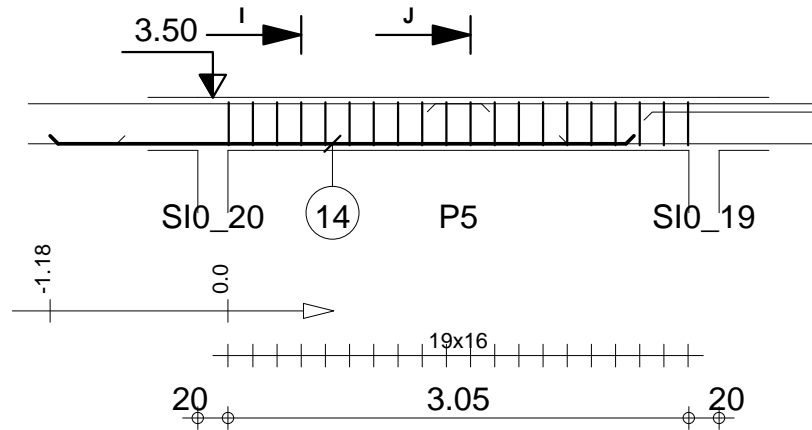


H-H

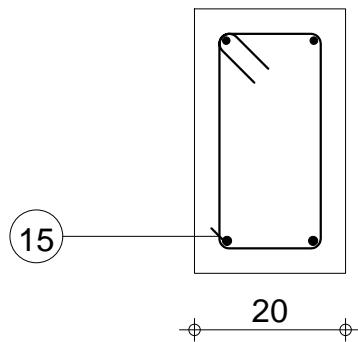


Tenu au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non		Béton : BETON20 = 0.27 m3		Acier HA 400 = 12.6 kg		Acier RL 235 = 4.97 kg	
		7 : P4 Section 20x35		Nombre 1		Surface du coffrage = 3.42 m2		Enrobage inférieur 3 cm Enrobage supérieur 3 cm		Enrobage latéral 3 cm	
						Densité = 65.19 kg/ m3		Echelle pour la vue 1/50		Echelle pour la section 1/10	
						Diamètre moyen = 8.15mm					

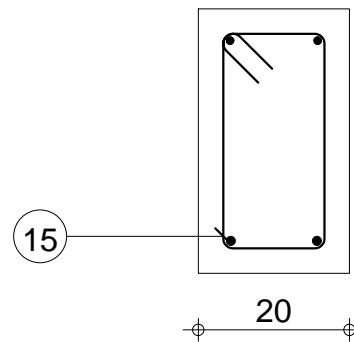
Pos.	Armature	Code	Forme
14	2HA 12 l=3.86	00	3.86
15	20RL 6 l=98	31	



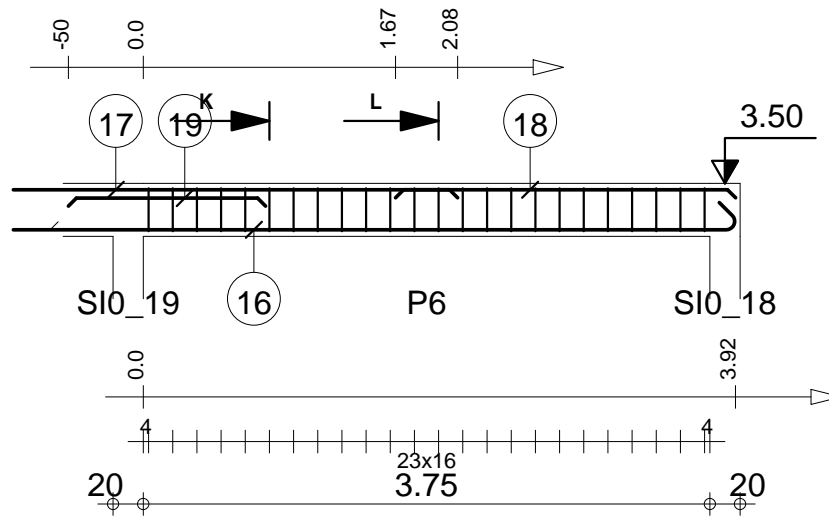
I-I



J-J

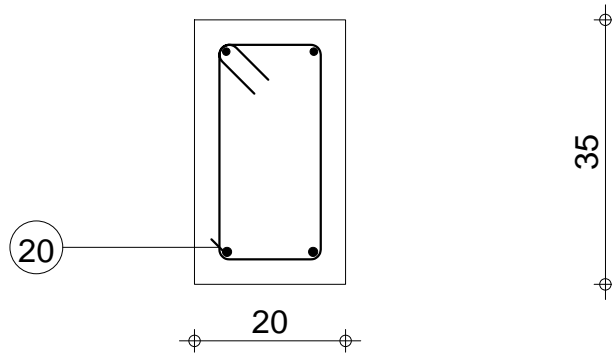


Tél.		Fax		Acier HA 400 = 6.86 kg	
Tenue au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non	
		7 : P5 Section 20x35		Béton : BETON20 = 0.228 m ³ Acier RL 235 = 4.33 kg	
				Surface du coffrage = 2.88 m ² Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm	
		Nombre 1		Densité = 49.12 kg/ m ³ Echelle pour la vue 1/50 Diamètre moyen = 7.7mm Echelle pour la section 1/10	
				Page 39/96	

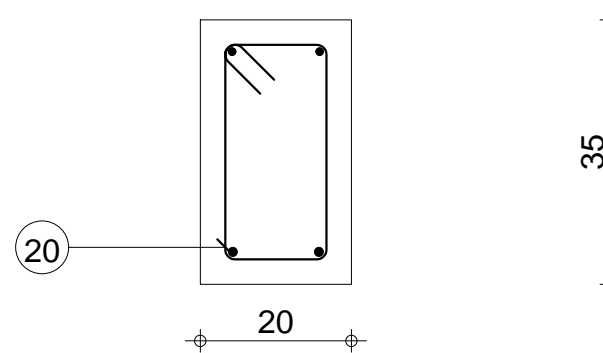


Pos.	Armature	Code	Forme
16	2HA 12 l=5.17	00	4.98
17	2HA 10 l=4.01	00	4.01
18	2HA 10 l=2.25	00	2.25
19	2HA 12 l=1.31	00	1.31
20	24RL 6 l=98	31	14 8

K-K

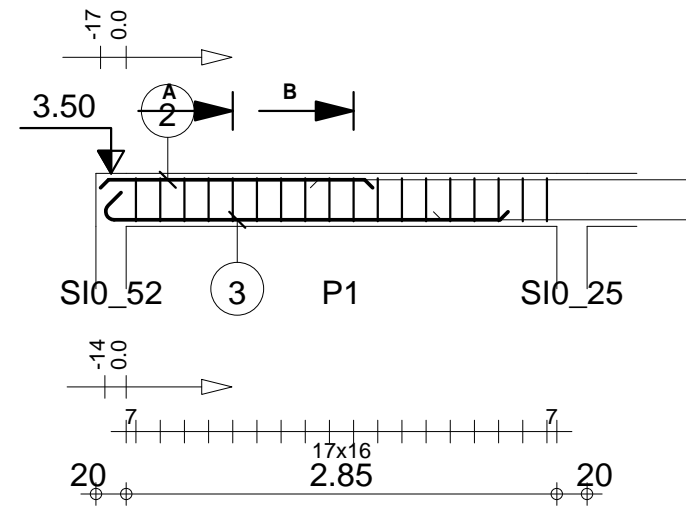


L-L

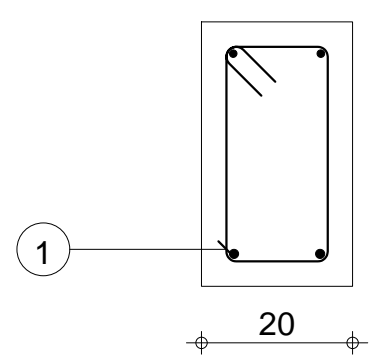


Tenu au feu 0h		Fissuration peu préjudiciable		Tél.	Fax	Acier HA 400 = 19.2 kg	
				Reprise de bétonnage : Non		Béton : BETON20 = 0.284 m ³	Acier RL 235 = 5.19 kg
	LONGRINE MINHDU Haut-Nyong	7 : P6 Section 20x35	Nombre 1	Surface du coffrage = 3.65 m ²		Enrobage inférieur 3 cm Enrobage supérieur 3 cm	
				Densité = 85.92 kg/ m ³ Diamètre moyen = 8.62mm		Enrobage latéral 3 cm	
						Echelle pour la vue 1/50	
						Echelle pour la section 1/10	
						Page 40/96	

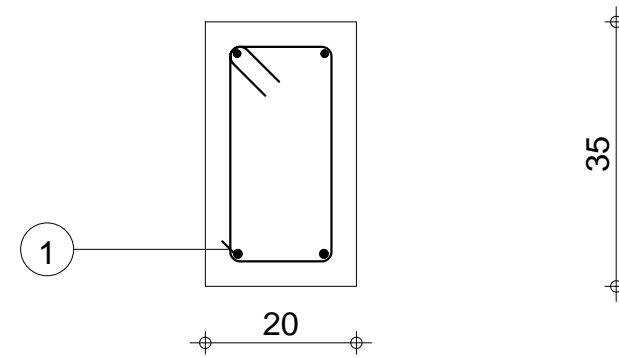
Pos.	Armature	Code	Forme
①	18RL 6 l=98	31	
②	2HA 10 l=1.80	00	
③	2HA 12 l=2.86	00	



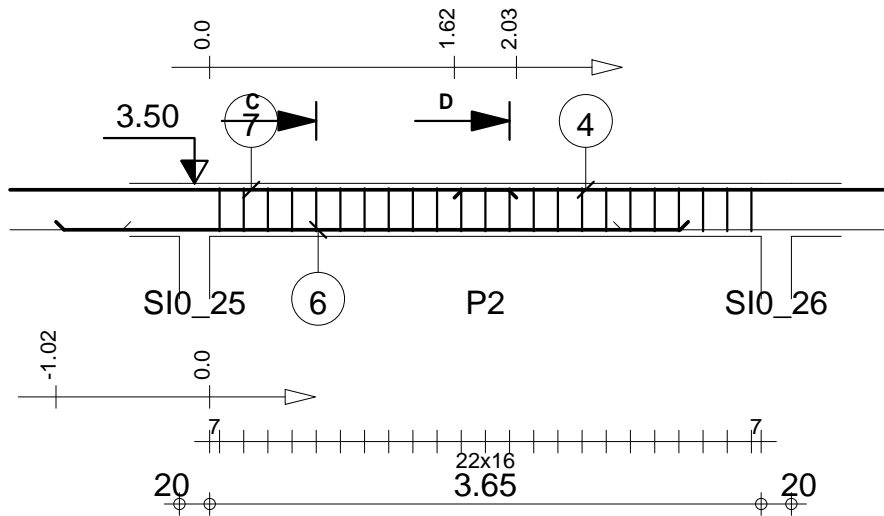
A-A



B-B

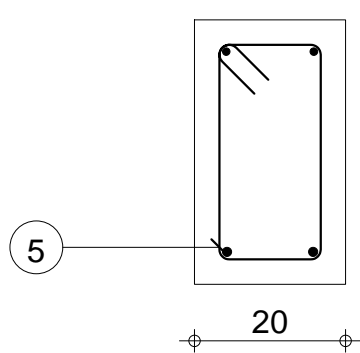


Tenu au feu 0h		Fissuration peu préjudiciable		Tél.	Fax	Béton : BETON20 = 0.22 m ³	Acier HA 400 = 7.3 kg	Acier RL 235 = 3.89 kg
		11 : P1 Section 20x35		Reprise de bétonnage : Non Nombre 1		Surface du coffrage = 2.84 m ²	Enrobage inférieur 3 cm Enrobage supérieur 3 cm	
						Densité = 50.91 kg/ m ³ Diamètre moyen = 7.81mm	Enrobage latéral 3 cm	
						Echelle pour la vue 1/50		Page 41/96
						Echelle pour la section 1/10		

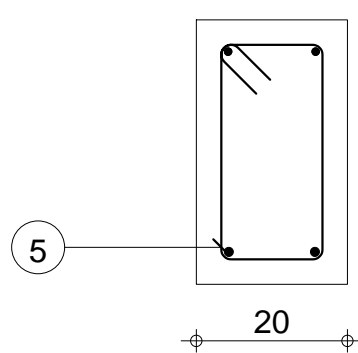


Pos.	Armature	Code	Forme
④	2HA 10 l=4.26	00	4.26
⑤	23RL 6 l=98	31	
⑥	2HA 12 l=4.18	00	4.18
⑦	2HA 10 l=3.86	00	3.86

C-C

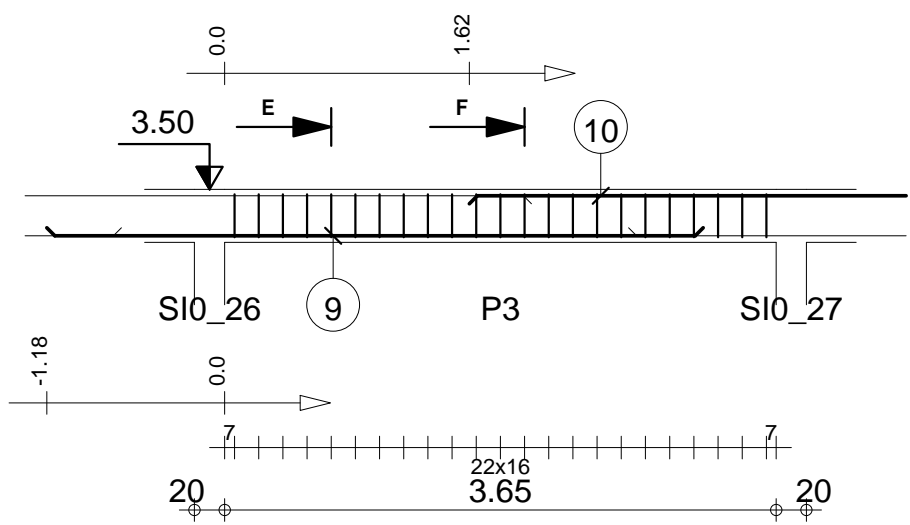


D-D

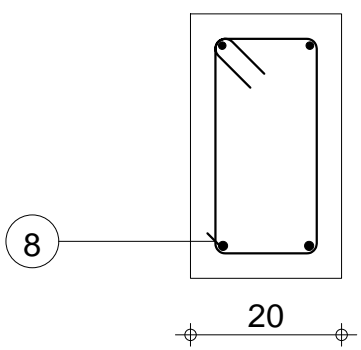


Tél.		Fax		Acier HA 400 = 17.4 kg	
Tenue au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non	
		11 : P2 Section 20x35		Béton : BETON20 = 0.27 m ³ Acier RL 235 = 4.97 kg	
				Surface du coffrage = 3.42 m ² Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm	
		Nombre 1		Densité = 82.96 kg/ m ³ Echelle pour la vue 1/50 Diamètre moyen = 8.45mm Echelle pour la section 1/10	
				Page 42/96	

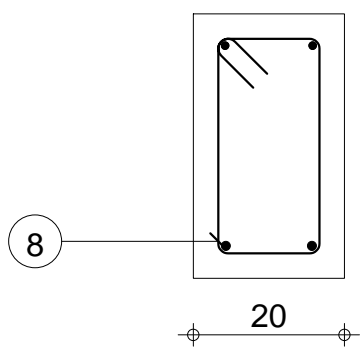
Pos.	Armature	Code	Forme
8	23RL 6 l=98	31	
9	2HA 12 l=4.34	00	
10	2HA 10 l=4.26	00	




E-E

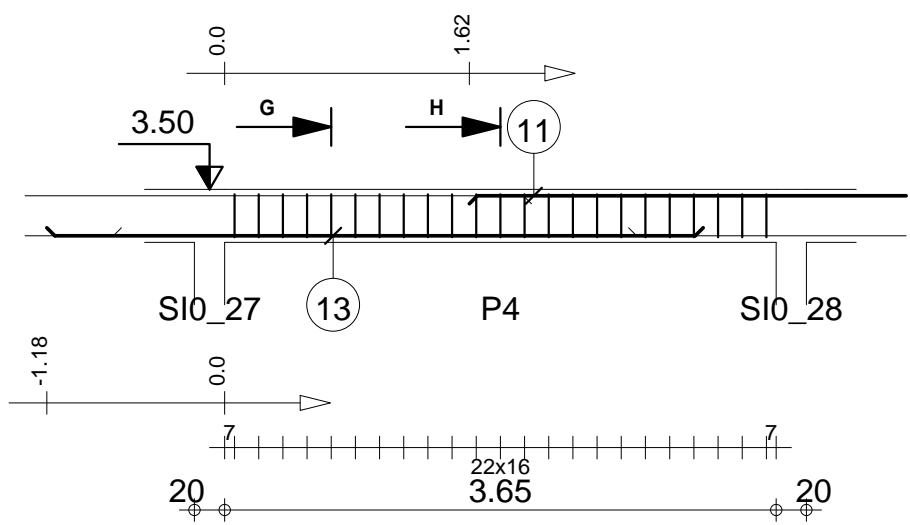


F-F



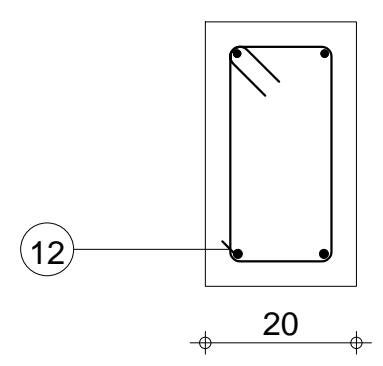
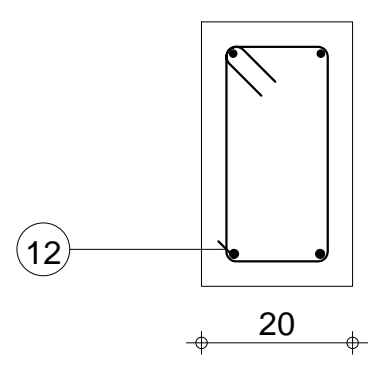
Tenu au feu 0h		Fissuration peu préjudiciable		Tél.	Fax	Béton : BETON20 = 0.27 m ³	Acier HA 400 = 13 kg	Acier RL 235 = 4.97 kg
		11 : P3 Section 20x35		Reprise de bétonnage : Non Nombre 1		Surface du coffrage = 3.42 m ²	Enrobage inférieur 3 cm Enrobage supérieur 3 cm	
						Densité = 66.3 kg/ m ³ Diamètre moyen = 8.18mm	Enrobage latéral 3 cm	
						Echelle pour la vue 1/50		Page 43/96
						Echelle pour la section 1/10		


Pos.	Armature		Code	Forme
11	2HA 10	l=3.96	00	3.96
12	23RL 6	l=98	31	
13	2HA 12	l=4.34	00	4.34





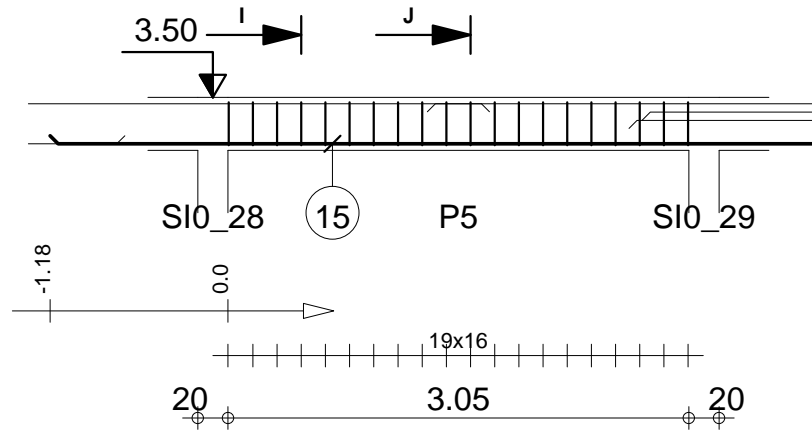
G-G

H-H



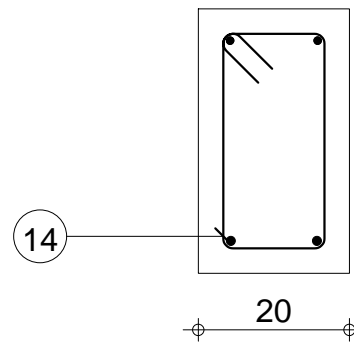
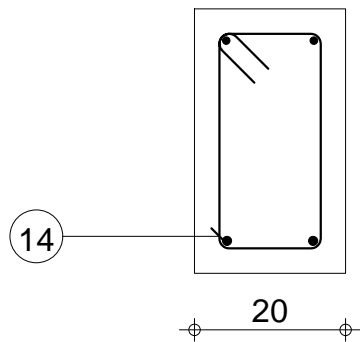
Tenu au feu 0h		Fissuration peu préjudiciable		Tél.	Fax	Acier HA 400 = 12.6 kg	
				Reprise de bétonnage : Non		Béton : BETON20 = 0.27 m3	Acier RL 235 = 4.97 kg
	LONGRINE MINH DU Haut-Nyong	11 : P4 Section 20x35	Nombre 1	Surface du coffrage = 3.42 m2		Enrobage inférieur 3 cm Enrobage supérieur 3 cm	
				Enrobage latéral 3 cm		Echelle pour la vue 1/50	
				Densité = 65.19 kg/ m3		Echelle pour la section 1/10	
				Diamètre moyen = 8.15mm			


Pos.	Armature	Code	Forme
14	20RL 6	l=98	31 
15	2HA 12	l=5.61	00 

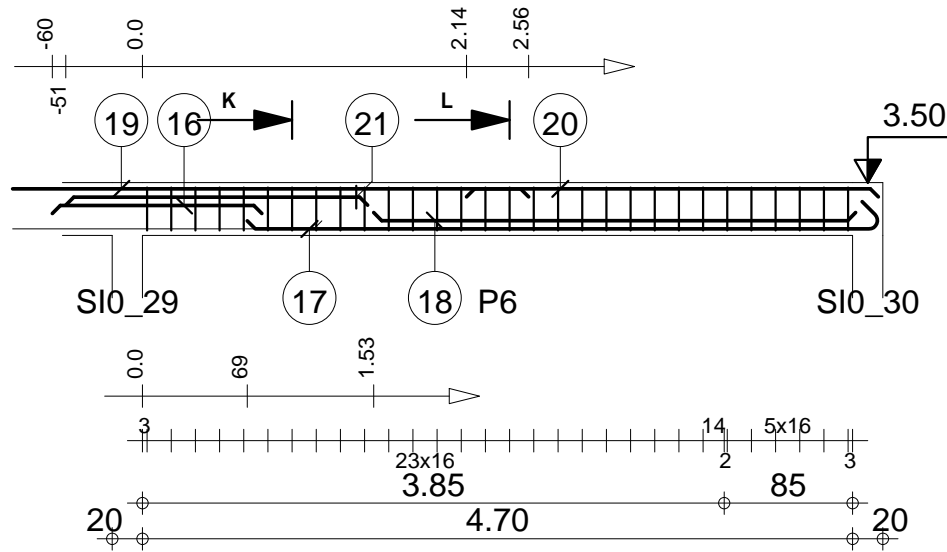



I-I

J-J

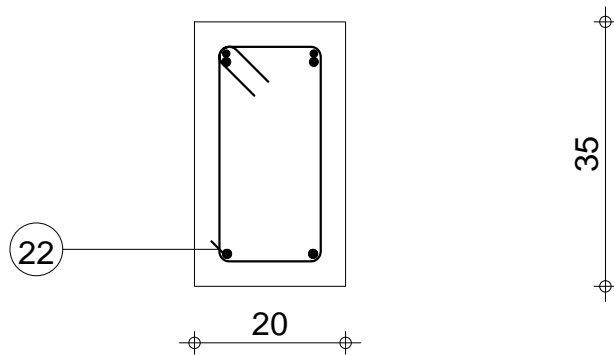


Tenu au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non		Béton : BETON20 = 0.228 m ³		Acier HA 400 = 9.97 kg	
Tél.		Fax		Nombre 1		Surface du coffrage = 2.88 m ²		Acier RL 235 = 4.33 kg	
 LONGRINE MINHDU Haut-Nyong		11 : P5 Section 20x35				Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm		Densité = 62.72 kg/ m ³ Diamètre moyen = 8.19mm	
						Echelle pour la vue 1/50 Echelle pour la section 1/10		Page 45/96	

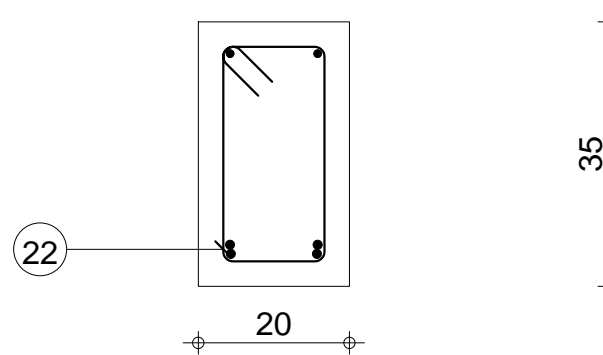



Pos.	Armature	Code	Forme
16	2HA 12 l=1.39	00	1.39
17	2HA 12 l=4.37	00	4.18
18	2HA 12 l=3.19	00	3.19
19	2HA 10 l=4.49	00	4.49
20	2HA 10 l=2.73	00	2.73
21	2HA 12 l=2.00	00	2.00
22	2*15RL 6 l=98	31	

K-K

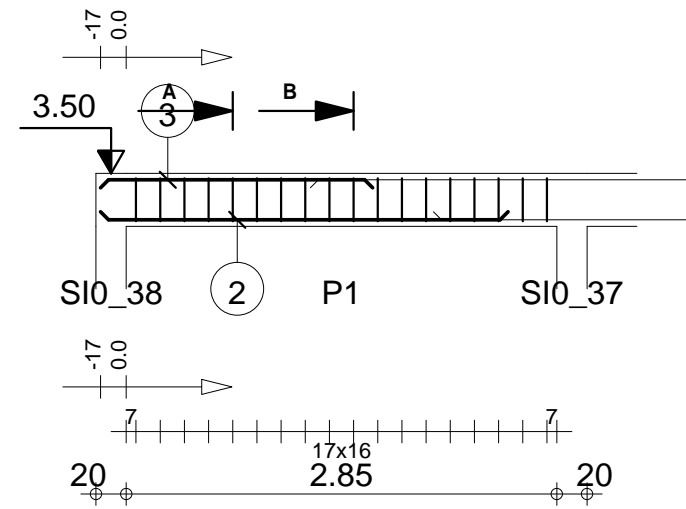


L-L

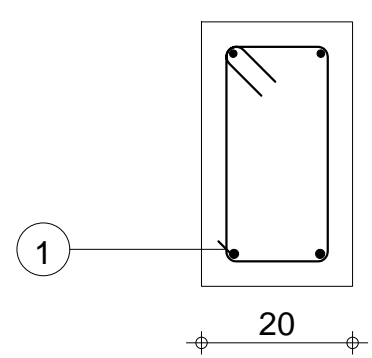


Tél.		Fax		Acier HA 400 = 28.3 kg	
Tenue au feu 0h		Fissuration peu préjudiciable		Acier RL 235 = 6.49 kg	
		Reprise de bétonnage : Non		Béton : BETON20 = 0.35 m ³	
 LONGRINE MINHDU Haut-Nyong		11 : P6 Section 20x35		Surface du coffrage = 4.51 m ²	
				Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm	
		Nombre 1		Densité = 99.43 kg/ m ³	
				Echelle pour la vue 1/50	
				Echelle pour la section 1/10	
				Page 46/96	

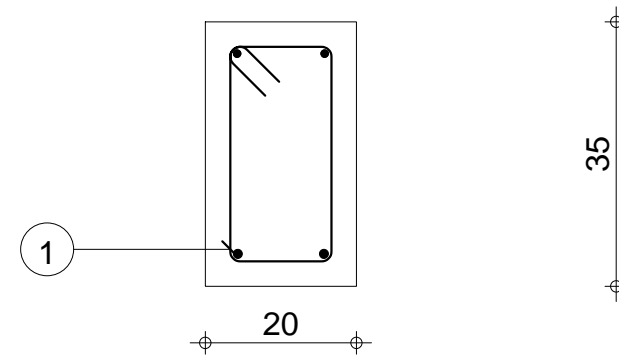
Pos.	Armature	Code	Forme
①	18RL 6 l=98	31	
②	2HA 12 l=2.70	00	
③	2HA 10 l=1.80	00	



A-A

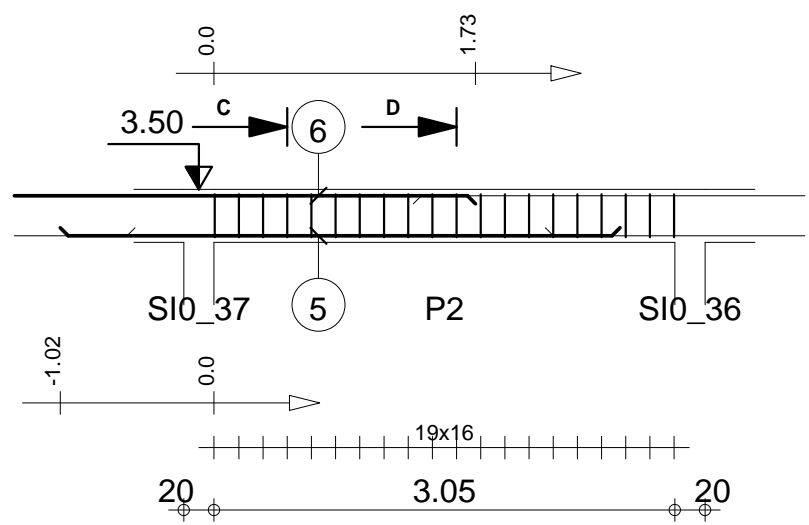


B-B

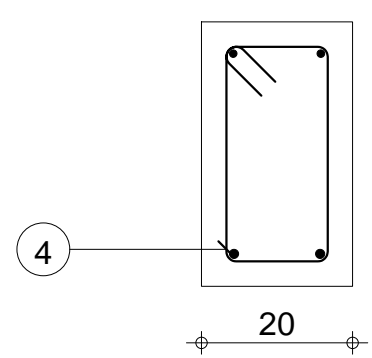


	LONGRINE MINHDU Haut-Nyong	12 : P1 Section 20x35	Nombre 1	Tél. Fax	Béton : BETON20 = 0.22 m ³	Acier HA 400 = 7.01 kg Acier RL 235 = 3.89 kg
				Tenue au feu 0h Fissuration peu préjudiciable Reprise de bétonnage : Non	Surface du coffrage = 2.84 m ²	Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm
				Densité = 49.55 kg/ m ³ Diamètre moyen = 7.76mm	Echelle pour la vue 1/50 Echelle pour la section 1/10	Page 47/96

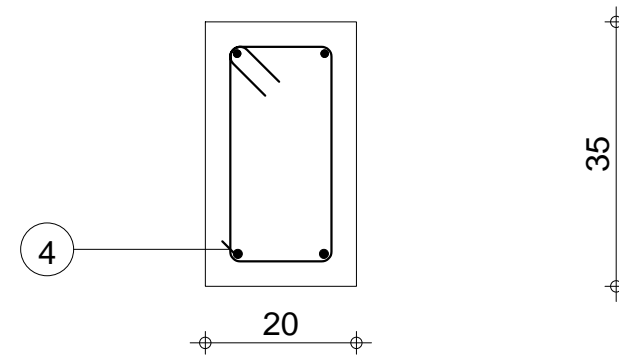
Pos.	Armature	Code	Forme
④	20RL 6 l=98	31	
⑤	2HA 12 l=3.70	00	
⑥	2HA 10 l=3.56	00	



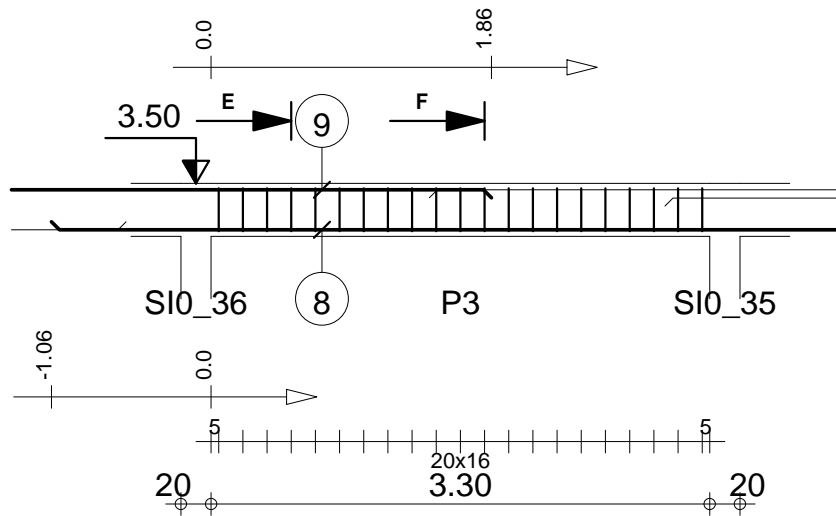
C-C






D-D

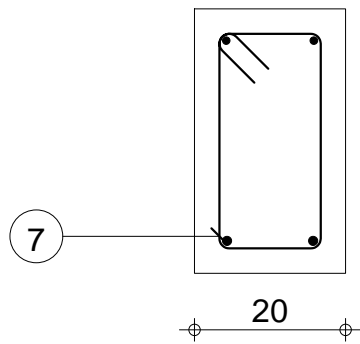


Tenu au feu 0h		Fissuration peu préjudiciable		Tél.	Fax	Béton : BETON20 = 0.228 m ³	Acier HA 400 = 11 kg	Acier RL 235 = 4.33 kg
		12 : P2 Section 20x35		Reprise de bétonnage : Non Nombre 1		Surface du coffrage = 2.88 m ²	Enrobage inférieur 3 cm Enrobage supérieur 3 cm	
						Densité = 67.11 kg/ m ³ Diamètre moyen = 8.14mm	Enrobage latéral 3 cm	
						Echelle pour la vue 1/50		Page 48/96
						Echelle pour la section 1/10		

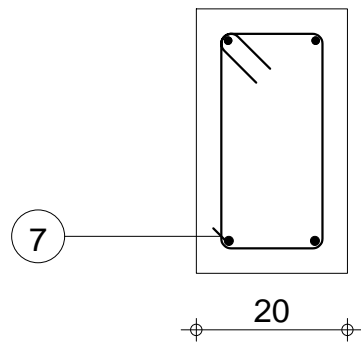



Pos.	Armature	Code	Forme
7	21RL 6	l=98	31 
8	2HA 12	l=5.72	00 
9	2HA 10	l=3.79	00 

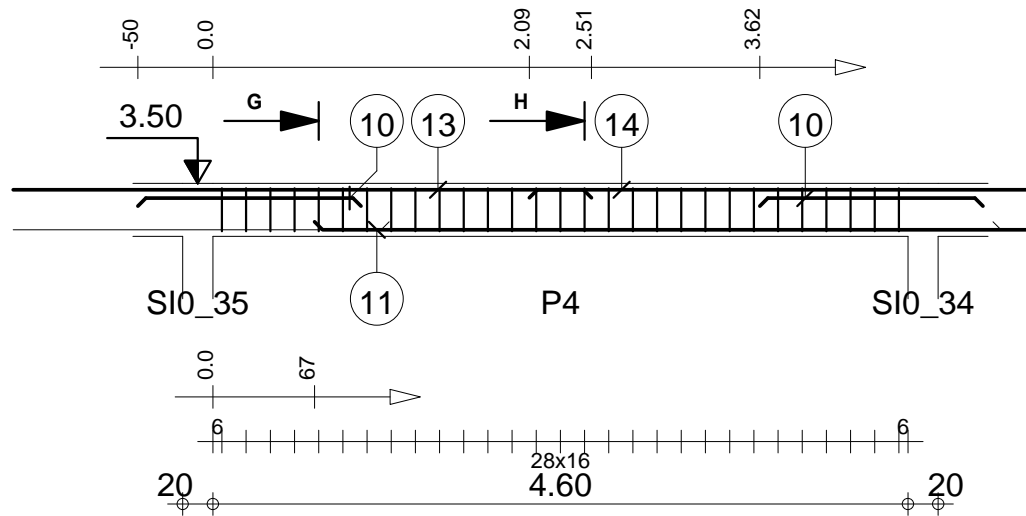
E-E



F-F

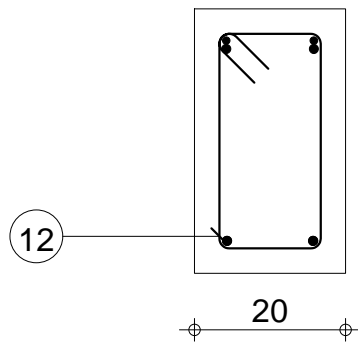


Tenu au feu 0h		Fissuration peu préjudiciable		Tél.	Fax	Béton : BETON20 = 0.245 m ³	Acier HA 400 = 14.8 kg	Acier RL 235 = 4.54 kg
 LONGRINE MINHDU Haut-Nyong		12 : P3 Section 20x35		Reprise de bétonnage : Non		Surface du coffrage = 3.11 m ²	Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm	
				Nombre 1		Densité = 79.18 kg/ m ³	Echelle pour la vue 1/50	
						Diamètre moyen = 8.51mm	Echelle pour la section 1/10	
								Page 49/96

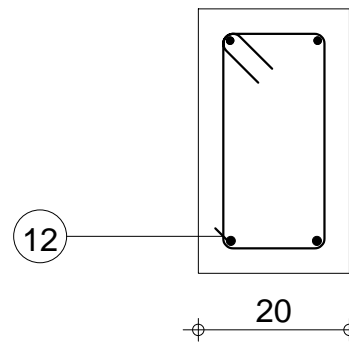


Pos.	Armature	Code	Forme
10	2*2HA 12 l=1.48	00	1.48
11	2HA 12 l=4.98	00	4.98
12	29RL 6 l=98	31	
13	2HA 10 l=4.56	00	4.56
14	2HA 10 l=4.44	00	4.44

G-G

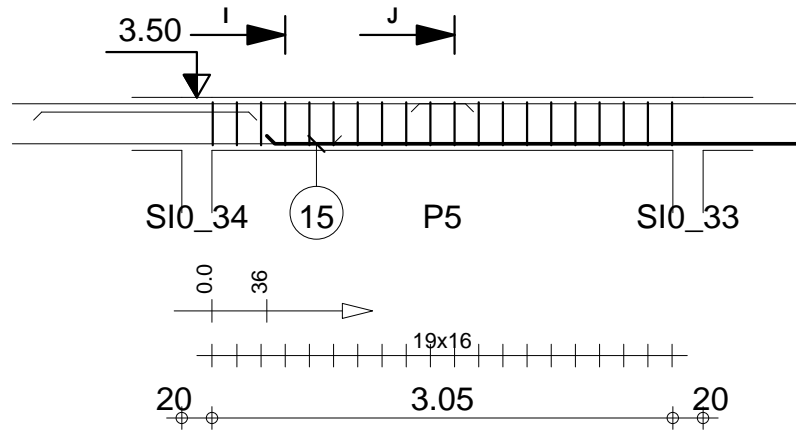


H-H



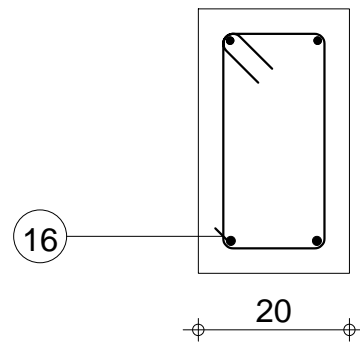
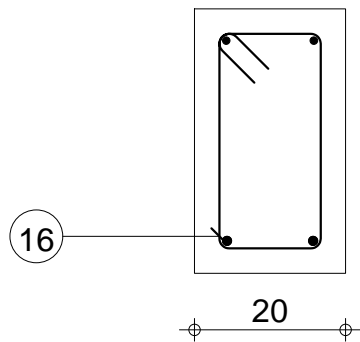
Tél.		Fax		Acier HA 400 = 25.2 kg	
Tenue au feu 0h		Fissuration peu préjudiciable		Acier RL 235 = 6.27 kg	
		Reprise de bétonnage : Non		Béton : BETON20 = 0.336 m ³	
		12 : P4		Surface du coffrage = 4.28 m ²	
MINHDU Haut-Nyong		Section 20x35		Enrobage inférieur 3 cm Enrobage supérieur 3 cm	
		Nombre 1		Enrobage latéral 3 cm	
				Densité = 93.75 kg/ m ³	
				Echelle pour la vue 1/50	
				Echelle pour la section 1/10	
				Page 50/96	

Pos.	Armature	Code	Forme
15	2HA 12 l=3.88	00	3.88
16	20RL 6 l=98	31	

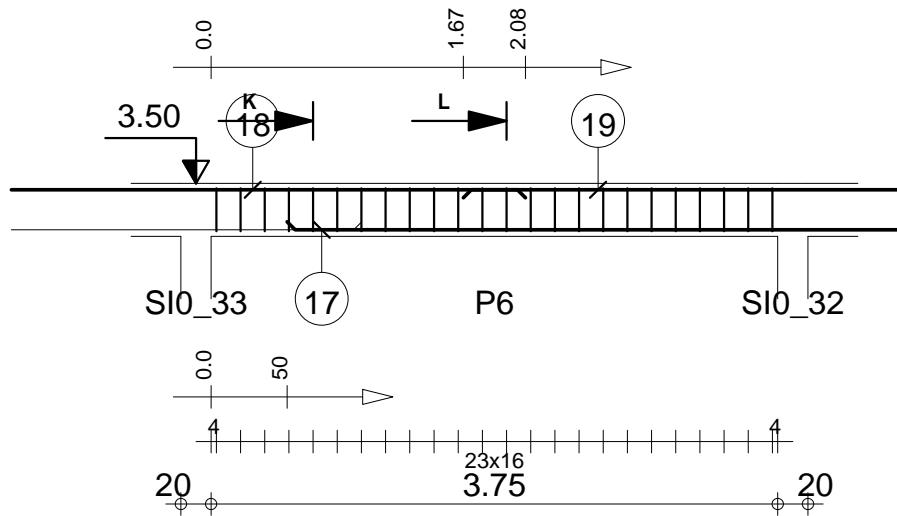


I-I

J-J

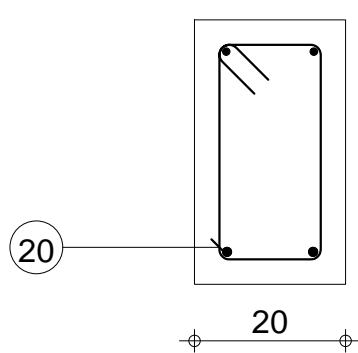


Tenu au feu 0h		Fissuration peu préjudiciable		Tél.	Fax	Béton : BETON20 = 0.228 m ³	Acier HA 400 = 6.9 kg	Acier RL 235 = 4.33 kg
		12 : P5 Section 20x35		Reprise de bétonnage : Non Nombre 1		Surface du coffrage = 2.88 m ²	Enrobage inférieur 3 cm Enrobage supérieur 3 cm	
						Densité = 49.12 kg/ m ³ Diamètre moyen = 7.71mm	Enrobage latéral 3 cm	
						Echelle pour la vue 1/50		Page 51/96
						Echelle pour la section 1/10		

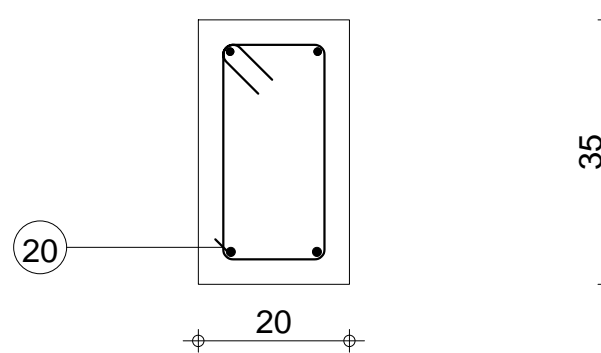


Pos.	Armature	Code	Forme
17	2HA 12 l=5.15	00	5.15
18	2HA 10 l=4.01	00	4.01
19	2HA 10 l=3.99	00	3.99
20	24RL 6 l=98	31	


K-K

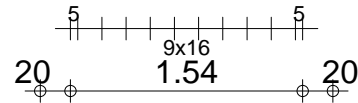
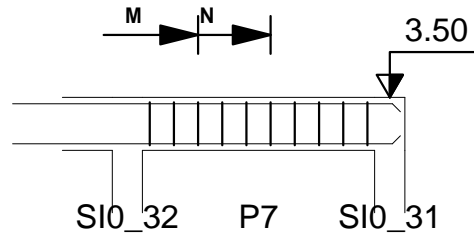


L-L

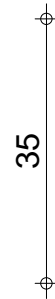
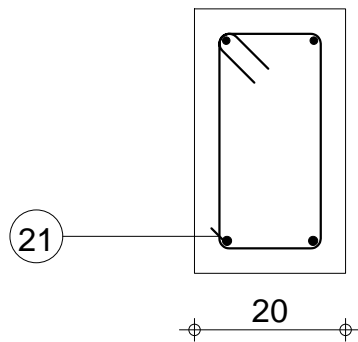


Tél.		Fax		Acier HA 400 = 19 kg	
Tenue au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non	
		12 : P6 Section 20x35		Béton : BETON20 = 0.277 m ³ Acier RL 235 = 5.19 kg	
				Surface du coffrage = 3.51 m ² Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm	
		Nombre 1		Densité = 87.36 kg/ m ³ Echelle pour la vue 1/50 Diamètre moyen = 8.53mm Echelle pour la section 1/10	
				Page 52/96	

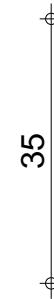
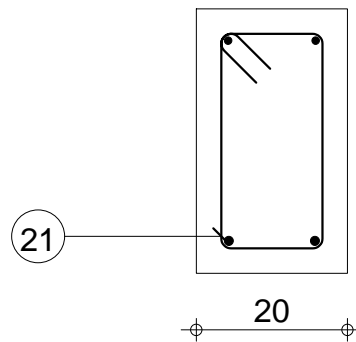
Pos.	Armature	Code	Forme
21	10RL 6	l=98	31 




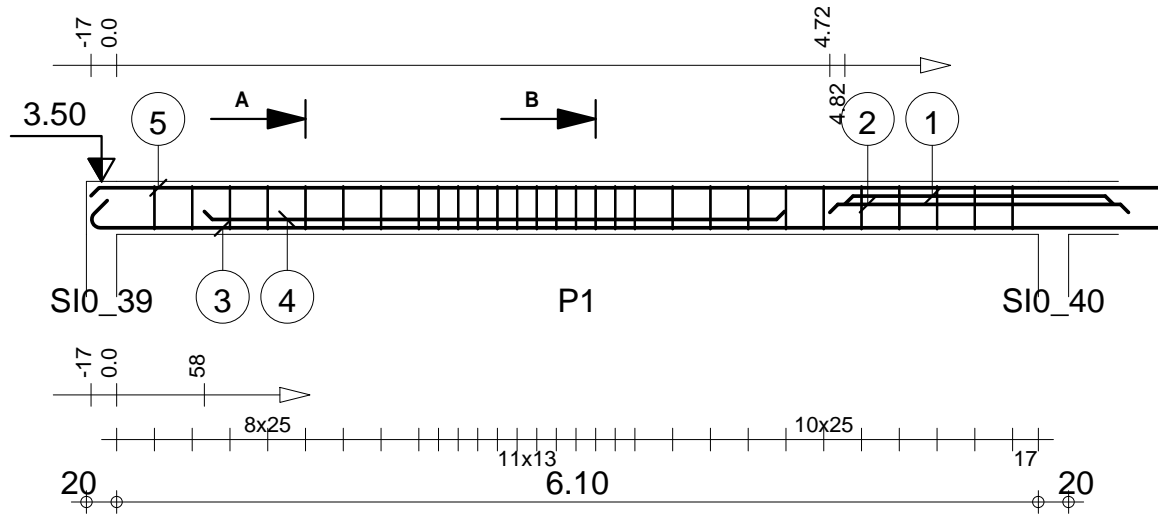
M-M



N-N

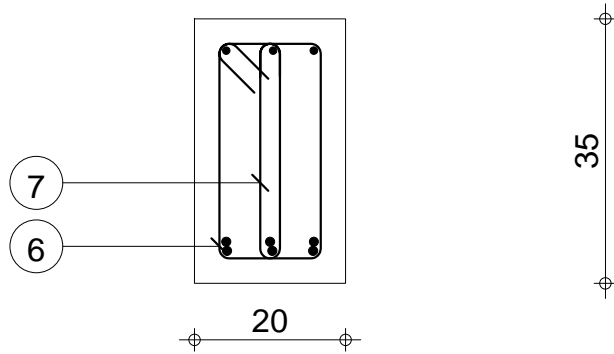


Tél.		Fax		Béton : BETON20 = 0.129 m ³		Acier RL 235 = 2.16 kg	
Tenue au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non		Surface du coffrage = 1.66 m ²	
 LONGRINE MINHDU Haut-Nyong		12 : P7 Section 20x35		Nombre 1		Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm	
				Densité = 16.74 kg/ m ³ Diamètre moyen = 6mm		Echelle pour la vue 1/50 Echelle pour la section 1/10	
						Page 53/96	

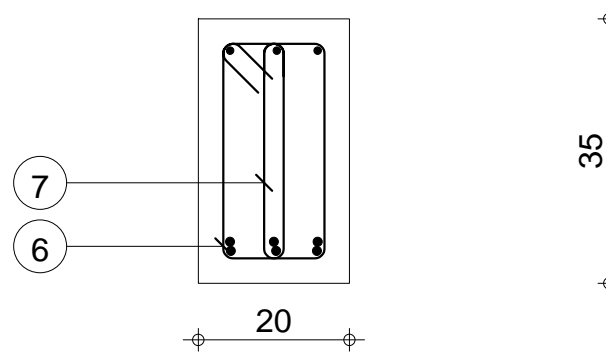


Pos.	Armature	Code	Forme
①	3HA 12 l=1.78	00	1.78
②	3HA 12 l=1.98	00	1.98
③	3HA 12 l=10.27	00	9.89
④	3HA 12 l=3.84	00	3.84
⑤	3HA 10 l=9.94	00	9.94
⑥	29RL 6 l=98	31	14 8 28
⑦	29RL 6 l=70		0.0 28



A-A

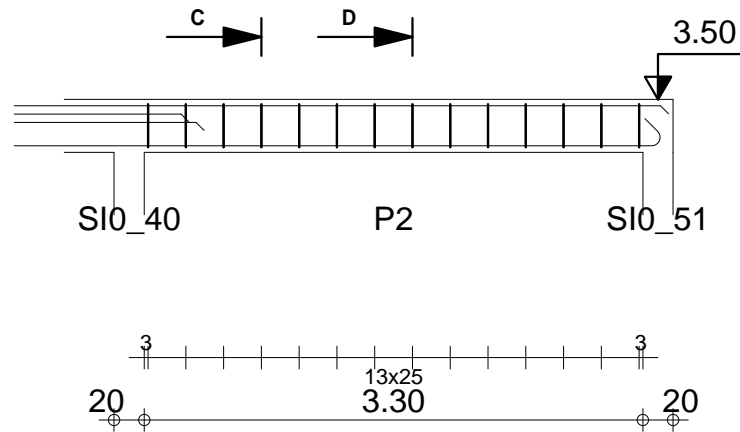


B-B

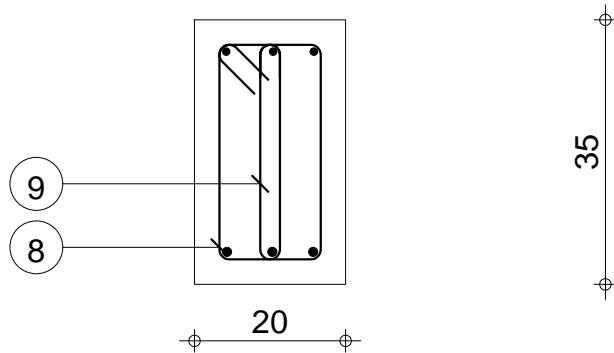


Tél.		Fax		Acier HA 400 = 66 kg	
Tenue au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non	
		16 : P1 Section 20x35		Béton : BETON20 = 0.448 m ³ Acier RL 235 = 10.8 kg	
				Surface du coffrage = 5.77 m ² Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm	
		Nombre 1		Densité = 171.2 kg/ m ³ Echelle pour la vue 1/50 Diamètre moyen = 9.34mm Echelle pour la section 1/10	
				Page 54/96	

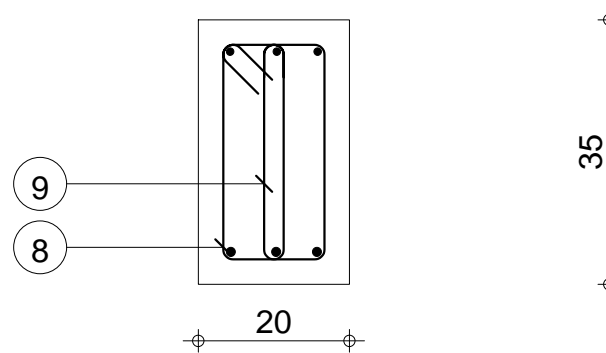
Pos.	Armature	Code	Forme
8	14RL 6	l=98	31 
9	14RL 6	l=70	





C-C

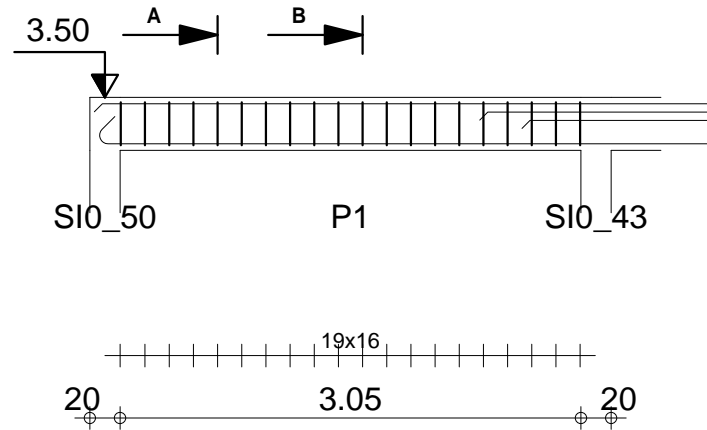


D-D

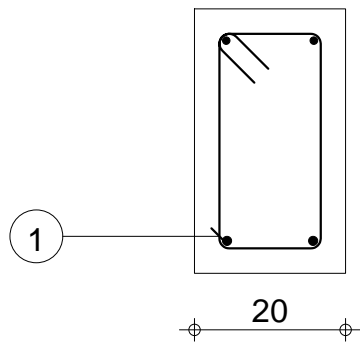


Tél.		Fax		Béton : BETON20 = 0.252 m ³		Acier RL 235 = 5.2 kg	
Tenue au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non		Surface du coffrage = 3.25 m ²	
 LONGRINE MINH DU Haut-Nyong		16 : P2 Section 20x35		Nombre 1 Densité = 20.63 kg/ m ³ Diamètre moyen = 6mm		Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm	
						Echelle pour la vue 1/50 Echelle pour la section 1/10	

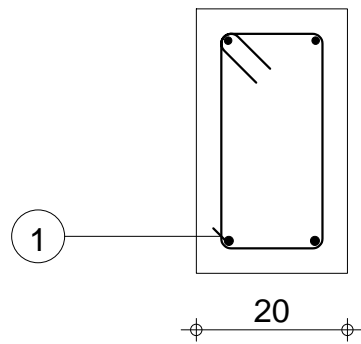
Pos.	Armature	Code	Forme
1	20RL 6	l=98	31 




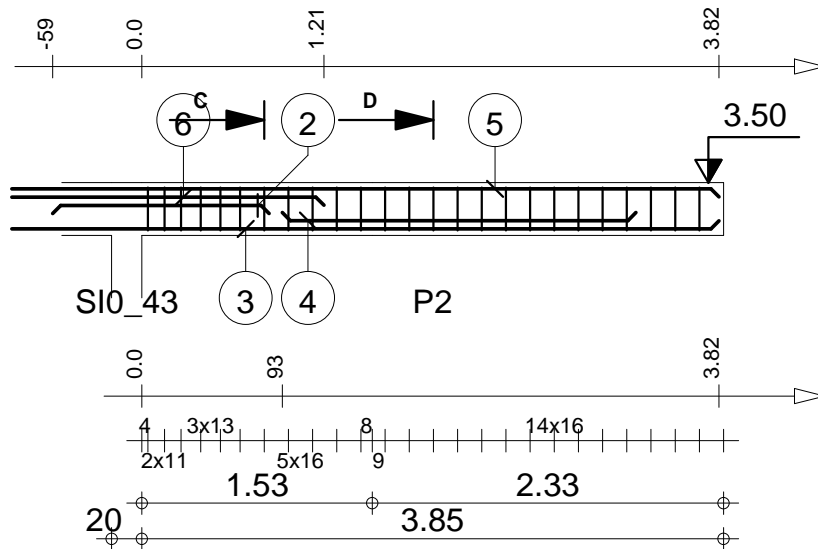
A-A



B-B

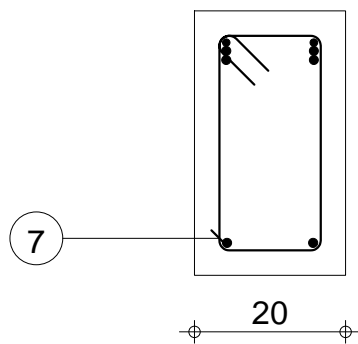


Tenu au feu 0h		Fissuration peu préjudiciable		Tél.	Fax	Béton : BETON20 = 0.234 m ³		Acier RL 235 = 4.33 kg	
 LONGRINE MINHDU Haut-Nyong		15 : P1 Section 20x35		Reprise de bétonnage : Non Nombre 1		Surface du coffrage = 3.02 m ²		Enrobage inférieur 3 cm Enrobage supérieur 3 cm	
						Densité = 18.5 kg/ m ³ Diamètre moyen = 6mm		Enrobage latéral 3 cm	
						Echelle pour la vue 1/50		Echelle pour la section 1/10	
								Page 56/96	

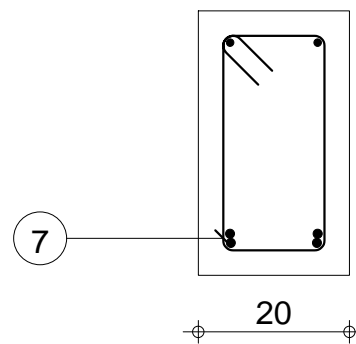


Pos.	Armature	Code	Forme
②	2HA 12	l=1.43	00 — 1.43
③	2HA 12	l=7.40	00 — 7.21
④	2HA 12	l=2.34	00 — 2.34
⑤	2HA 10	l=7.24	00 — 7.24
⑥	2HA 12	l=2.08	00 — 2.08
⑦	25RL 6	l=98	31

C-C



D-D




Tenu au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non		Acier HA 400 = 32.5 kg	
Tél.		Fax		Béton : BETON20 = 0.277 m ³		Acier RL 235 = 5.41 kg	
Surface du coffrage = 3.61 m ²		Enrobage inférieur 3 cm		Enrobage supérieur 3 cm		Enrobage latéral 3 cm	
Densité = 136.8 kg/ m ³		Echelle pour la vue 1/50		Echelle pour la section 1/10		Page 57/96	
Diamètre moyen = 9.32mm							

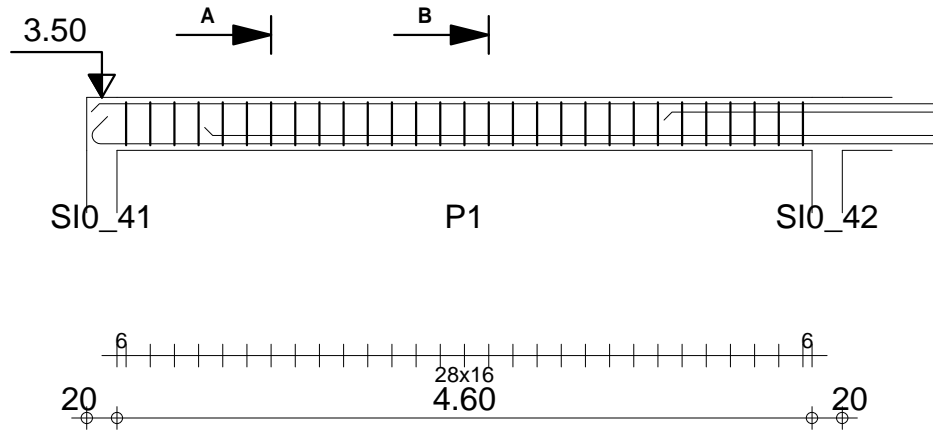


LONGRINE
MINHDU Haut-Nyong

15 : P2
Section 20x35

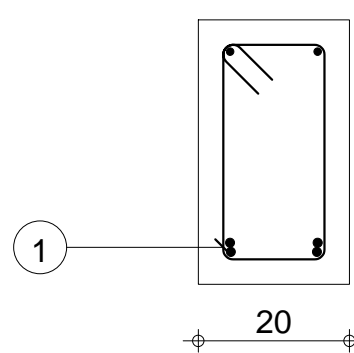
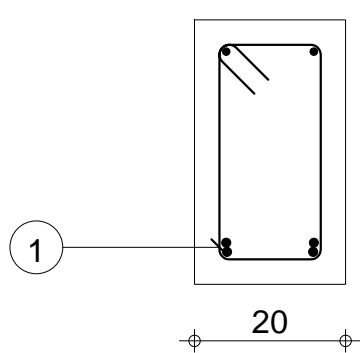
Nombre 1


Pos.	Armature	Code	Forme
1	29RL 6	l=98	31 

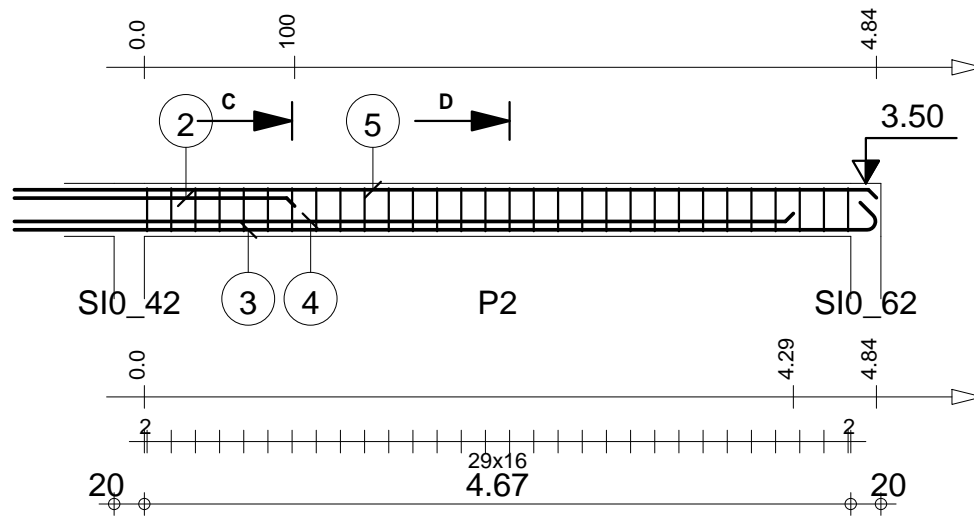


A-A

B-B

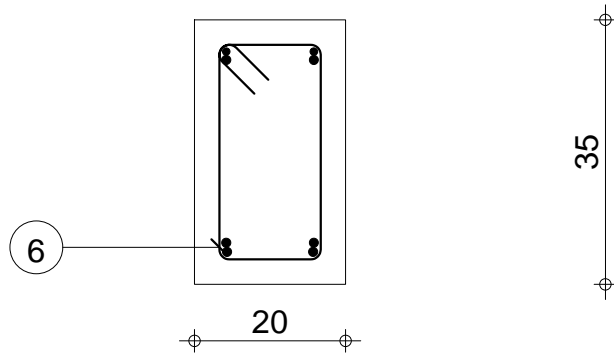


Tenu au feu 0h		Fissuration peu préjudiciable		Tél.	Fax	Béton : BETON20 = 0.343 m ³		Acier RL 235 = 6.27 kg	
				Reprise de bétonnage : Non		Surface du coffrage = 4.42 m ²		Enrobage inférieur 3 cm Enrobage supérieur 3 cm	
						Densité = 18.28 kg/ m ³		Echelle pour la vue 1/50	
						Diamètre moyen = 6mm		Echelle pour la section 1/10	
		17 : P1		Section 20x35		Nombre 1		Page 58/96	

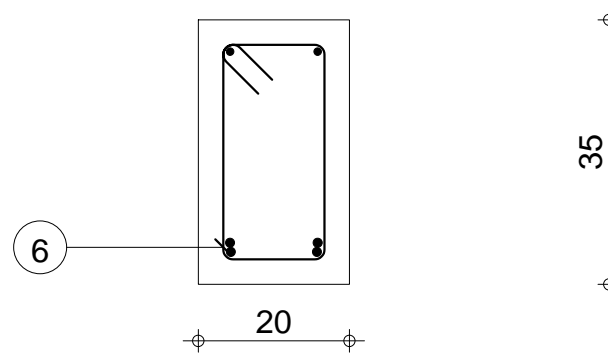


Pos.	Armature	Code	Forme
②	2HA 12 l=2.18	00	2.18
③	2HA 12 l=10.20	00	9.82
④	2HA 12 l=8.52	00	8.52
⑤	2HA 10 l=9.81	00	9.82
⑥	30RL 6 l=98	31	14 8

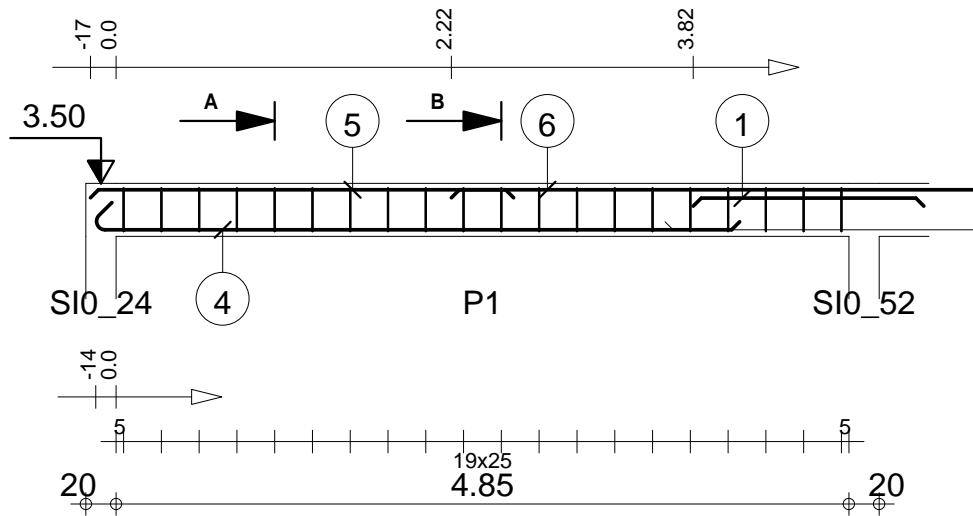
C-C






D-D

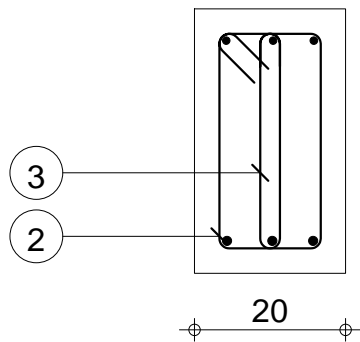


Tenu au feu 0h		Fissuration peu préjudiciable		Tél.	Fax	Acier HA 400 = 49.2 kg	
				Reprise de bétonnage : Non		Béton : BETON20 = 0.348 m ³	Acier RL 235 = 6.49 kg
	LONGRINE MINHDU Haut-Nyong	17 : P2 Section 20x35	Nombre 1	Surface du coffrage = 4.49 m ²		Enrobage inférieur 3 cm Enrobage supérieur 3 cm	
				Enrobage latéral 3 cm		Echelle pour la vue 1/50	
				Densité = 160.1 kg/ m ³		Echelle pour la section 1/10	
				Diamètre moyen = 9.63mm			

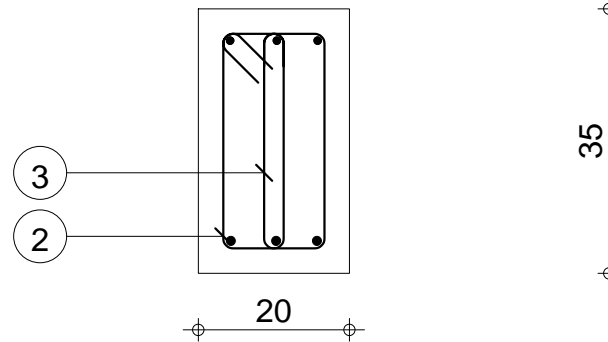


Pos.	Armature	Code	Forme
①	3HA 12	l=1.53	00 — 1.53
②	20RL 6	l=98	31 
③	20RL 6	l=70	
④	3HA 12	l=4.45	00  4.26
⑤	3HA 10	l=2.80	00 — 2.80
⑥	3HA 10	l=3.89	00 — 3.89

A-A



B-B






Tél.		Fax		Acier HA 400 = 28.3 kg	
Tenue au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non	
Béton : BETON20 = 0.36 m ³		Surface du coffrage = 4.64 m ²		Acier RL 235 = 7.43 kg	
Densité = 99.17 kg/ m ³		Diamètre moyen = 8.63mm		Enrobage inférieur 3 cm Enrobage supérieur 3 cm	
Echelle pour la vue 1/50		Echelle pour la section 1/10		Page 60/96	

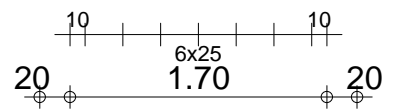
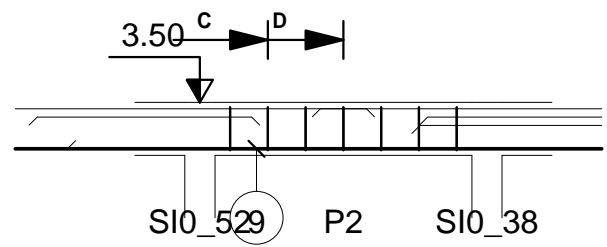


LONGRINE
MINHDU Haut-Nyong

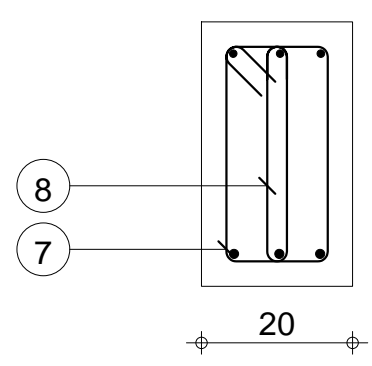
A : P1
Section 20x35

Nombre 1

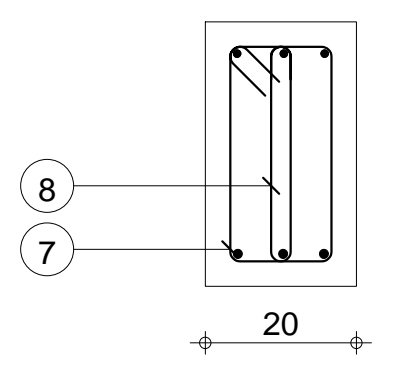
Pos.	Armature	Code	Forme
7	7RL 6	l=98	31 
8	7RL 6	l=70	
9	3HA 12	l=4.75	00 




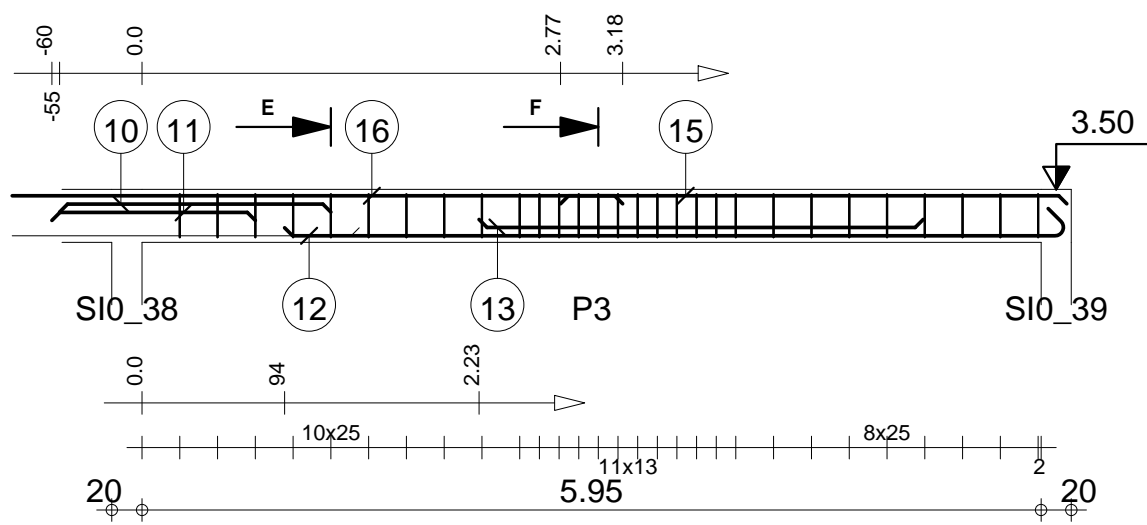
C-C



D-D

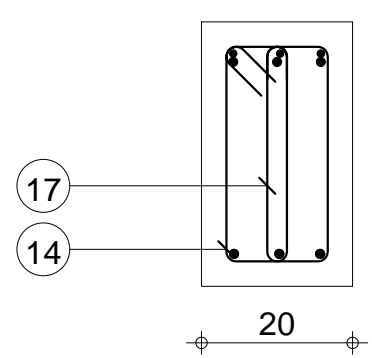


 LONGRINE MINH DU Haut-Nyong	A : P2 Section 20x35	Nombre 1	Tél.	Fax	Acier HA 400 = 12.7 kg	Acier RL 235 = 2.6 kg
			Tenue au feu 0h Fissuration peu préjudiciable Reprise de bétonnage : Non		Béton : BETON20 = 0.133 m ³ Surface du coffrage = 1.67 m ² Densité = 115 kg/ m ³ Diamètre moyen = 9.29mm	Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm Echelle pour la vue 1/50 Echelle pour la section 1/10

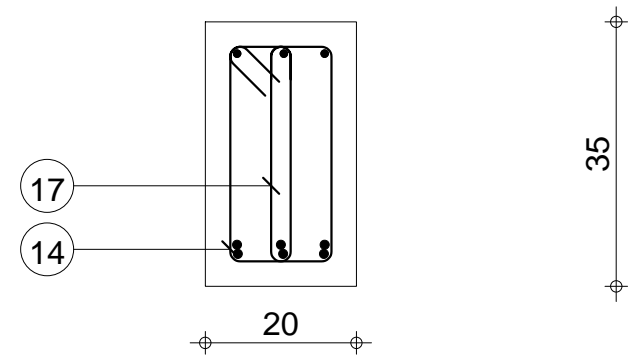


Pos.	Armature	Code	Forme
10	3HA 12	l=1.80	00 — 1.80
11	3HA 12	l=1.35	00 — 1.35
12	3HA 12	l=5.35	00 — 5.16
13	3HA 12	l=2.94	00 — 2.94
14	29RL 6	l=98	31
15	3HA 10	l=3.35	00 — 3.35
16	3HA 10	l=4.44	00 — 4.44
17	29RL 6	l=70	

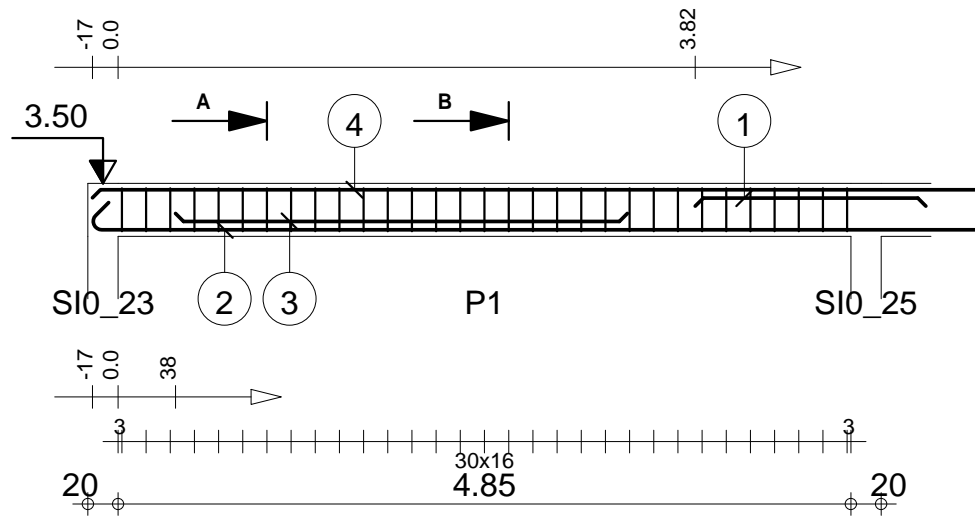
E-E



F-F

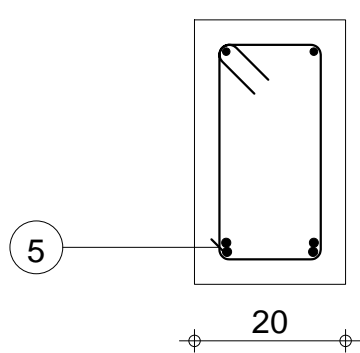


Tenu au feu 0h		Fissuration peu préjudiciable		Tél.	Fax	Béton : BETON20 = 0.438 m ³	Acier HA 400 = 44.9 kg	Acier RL 235 = 10.8 kg
		A : P3 Section 20x35		Reprise de bétonnage : Non Nombre 1		Surface du coffrage = 5.64 m ²	Enrobage inférieur 3 cm Enrobage supérieur 3 cm	
						Densité = 126.9 kg/ m ³ Diamètre moyen = 8.82mm	Enrobage latéral 3 cm	

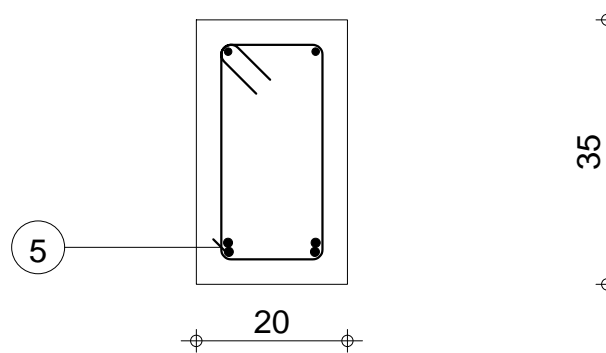


Pos.	Armature	Code	Forme
①	2HA 12 l=1.53	00	1.53
②	2HA 12 l=7.24	00	7.05
③	2HA 12 l=2.99	00	2.99
④	2HA 10 l=7.09	00	7.09
⑤	31RL 6 l=98	31	14 8


A-A

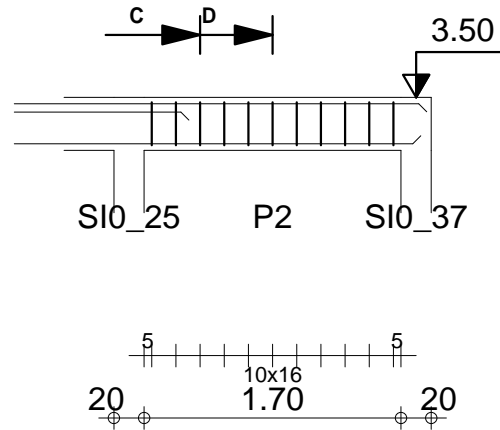


B-B

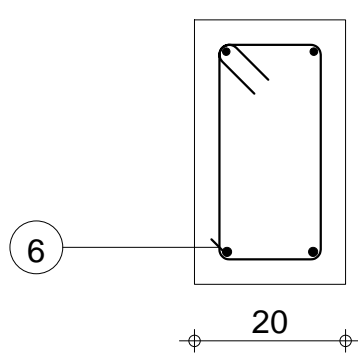


Tél.		Fax		Acier HA 400 = 29.6 kg	
Tenue au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non	
		B : P1 Section 20x35		Béton : BETON20 = 0.36 m ³ Acier RL 235 = 6.71 kg	
				Surface du coffrage = 4.64 m ² Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm	
		Nombre 1		Densité = 100.8 kg/ m ³ Echelle pour la vue 1/50 Diamètre moyen = 8.91mm Echelle pour la section 1/10	
				Page 63/96	

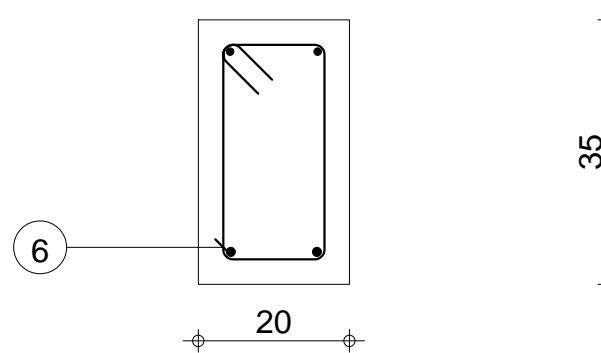
Pos.	Armature	Code	Forme
6	11RL 6	l=98	31 



C-C



D-D



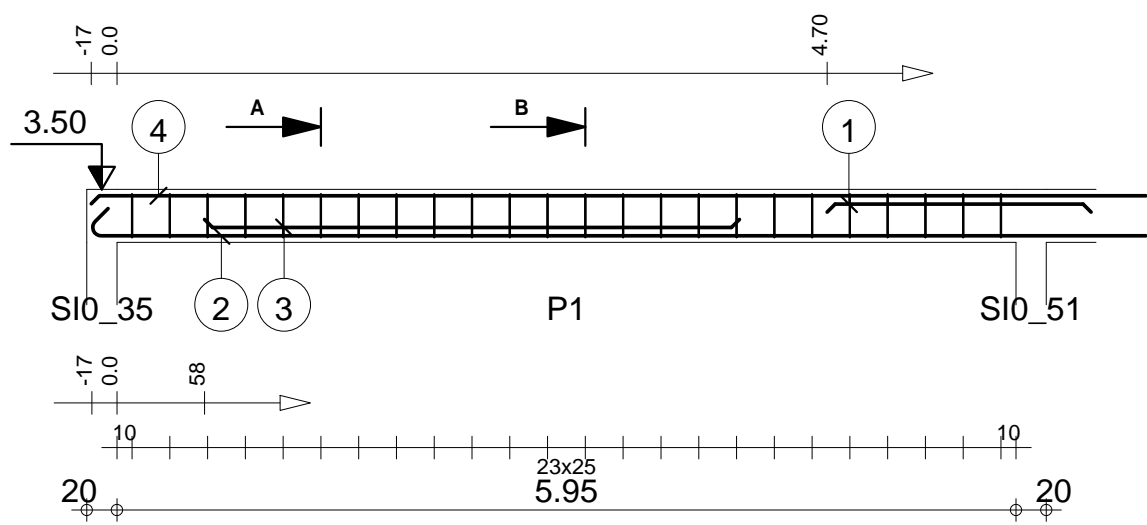
Tél.		Fax		Béton : BETON20 = 0.14 m3		Acier RL 235 = 2.38 kg	
Tenue au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non		Surface du coffrage = 1.81 m2	
Enrobage inférieur 3 cm		Enrobage supérieur 3 cm		Enrobage latéral 3 cm			
Densité = 17 kg/ m3		Echelle pour la vue 1/50		Echelle pour la section 1/10		Page 64/96	
Diamètre moyen = 6mm							



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B : P2
Section 20x35

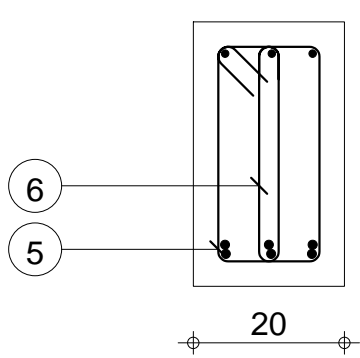
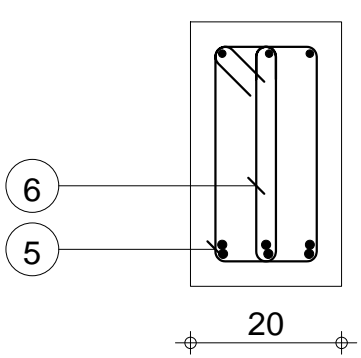
Nombre 1





Pos.	Armature	Code	Forme
①	3HA 12	l=1.75	00 — 1.75
②	3HA 12	l=8.78	00 — 8.59
③	3HA 12	l=3.54	00 — 3.54
④	3HA 10	l=8.64	00 — 8.64
⑤	24RL 6	l=98	31
⑥	24RL 6	l=70	

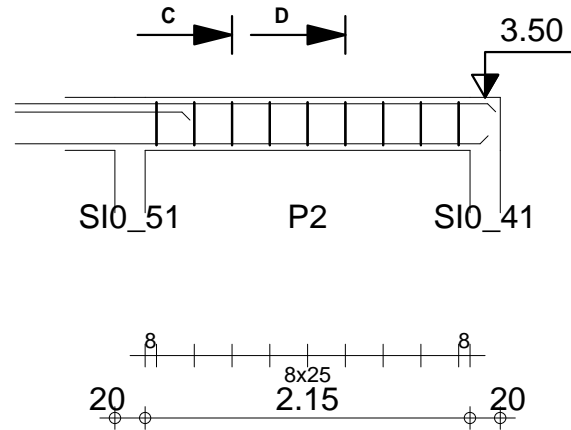
A-A

B-B

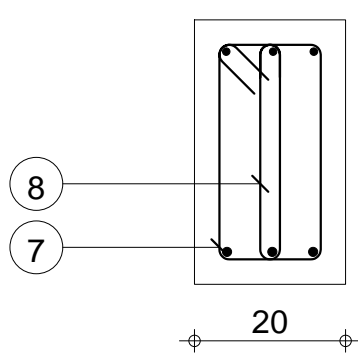


Tenu au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non		Acier HA 400 = 53.4 kg	
Tél.		Fax		Béton : BETON20 = 0.438 m ³		Acier RL 235 = 8.91 kg	
LONGRINE MINHDU Haut-Nyong		E : P1 Section 20x35		Surface du coffrage = 5.64 m ² Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm		Echelle pour la vue 1/50 Echelle pour la section 1/10	
		Nombre 1		Densité = 142.2 kg/ m ³ Diamètre moyen = 9.3mm		Page 65/96	

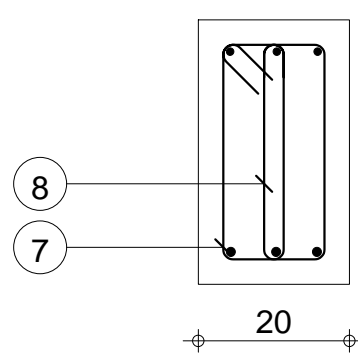
Pos.	Armature	Code	Forme
7	9RL 6	l=98	31 
8	9RL 6	l=70	



C-C



D-D



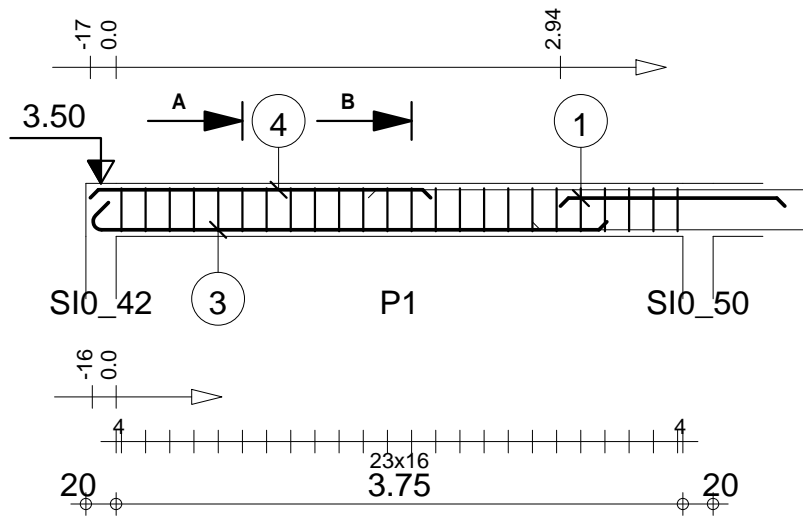
Tél.		Fax		Béton : BETON20 = 0.171 m ³		Acier RL 235 = 3.34 kg	
Tenue au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non		Surface du coffrage = 2.21 m ²	
Enrobage inférieur 3 cm		Enrobage supérieur 3 cm		Enrobage latéral 3 cm		Echelle pour la vue 1/50	
Echelle pour la section 1/10		Page 66/96		Densité = 19.53 kg/ m ³		Diamètre moyen = 6mm	



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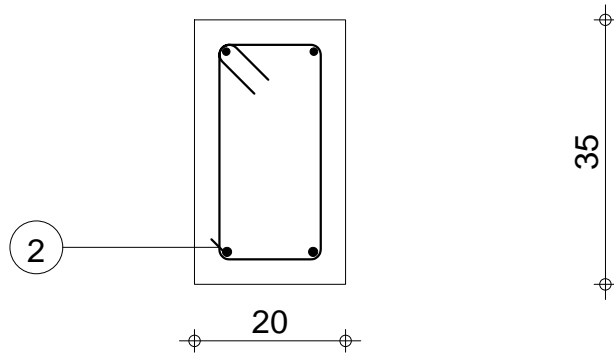
E : P2
Section 20x35

Nombre 1

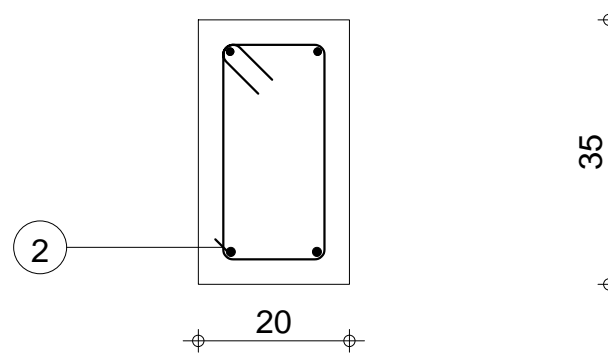


Pos.	Armature	Code	Forme
①	2HA 12 l=1.49	00	1.49
②	24RL 6 l=98	31	
③	2HA 12 l=3.60	00	3.41
④	2HA 10 l=2.25	00	2.25

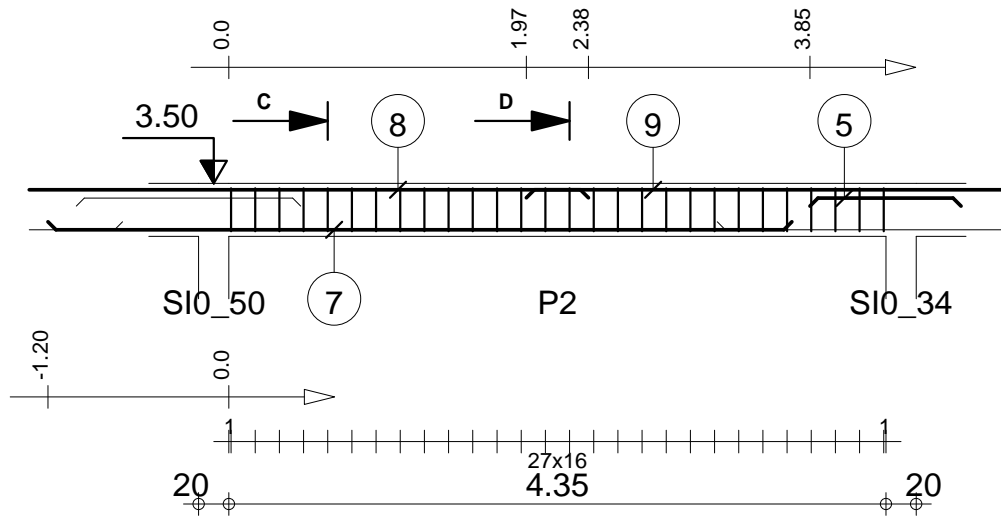
A-A



B-B

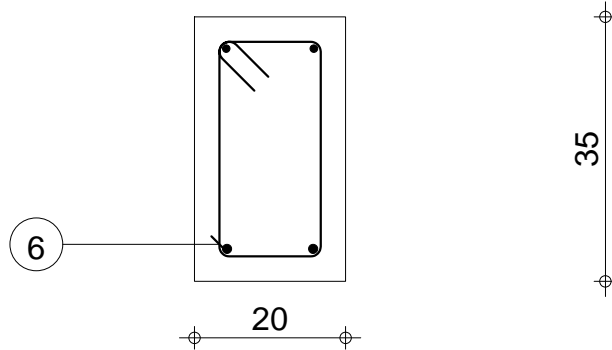


Tél.		Fax		Acier HA 400 = 11.8 kg	
Tenue au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non	
		G : P1 Section 20x35		Béton : BETON20 = 0.284 m ³ Acier RL 235 = 5.19 kg	
				Surface du coffrage = 3.66 m ² Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm	
		Nombre 1		Densité = 59.86 kg/ m ³ Echelle pour la vue 1/50 Diamètre moyen = 8.08mm Echelle pour la section 1/10	
				Page 67/96	

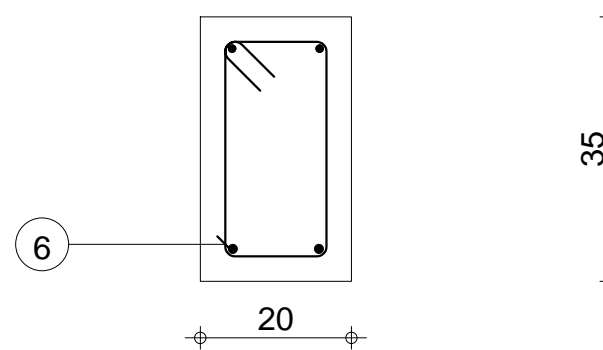


Pos.	Armature	Code	Forme
5	2HA 12 l=100	00	1.00
6	28RL 6 l=98	31	
7	2HA 12 l=4.92	00	4.92
8	2HA 10 l=4.66	00	4.66
9	2HA 10 l=3.64	00	3.64

C-C



D-D



Tél.		Fax		Acier HA 400 = 20.7 kg	
Tenue au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non	
Béton : BETON20 = 0.318 m ³		Surface du coffrage = 4.05 m ²		Acier RL 235 = 6.06 kg	
Densité = 84.28 kg/ m ³		Diamètre moyen = 8.47mm		Enrobage inférieur 3 cm Enrobage supérieur 3 cm	
Echelle pour la vue 1/50		Echelle pour la section 1/10		Page 68/96	

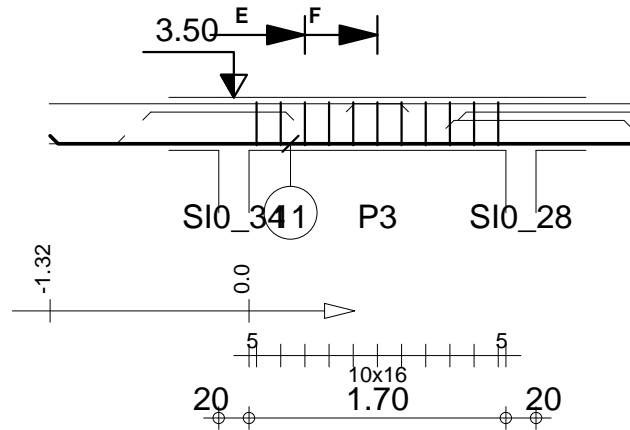


LONGRINE
MINHDU Haut-Nyong

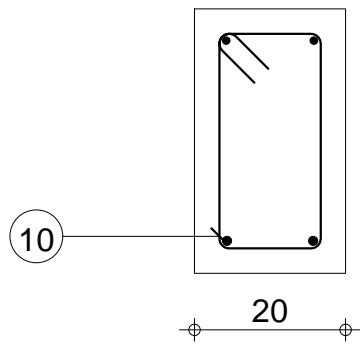
G : P2
Section 20x35

Nombre 1

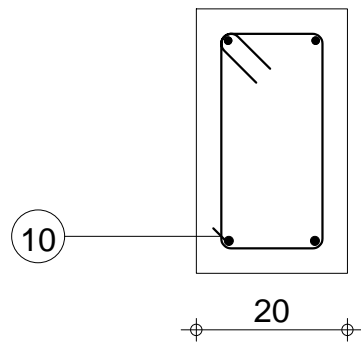
Pos.	Armature	Code	Forme
10	11RL 6 l=98	31	
11	2HA 12 l=4.43	00	



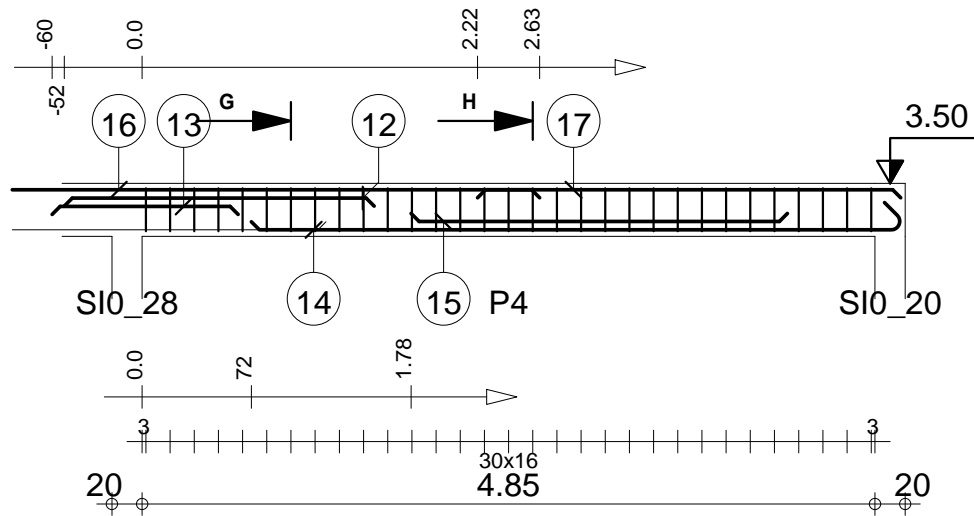
E-E



F-F

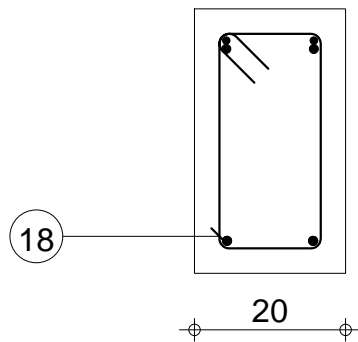


Tenu au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non		Acier HA 400 = 7.87 kg	
Tél.		Fax		Béton : BETON20 = 0.133 m ³		Acier RL 235 = 2.38 kg	
LONGRINE MINHDU Haut-Nyong		G : P3 Section 20x35		Surface du coffrage = 1.67 m ² Densité = 77.44 kg/ m ³ Diamètre moyen = 8.72mm		Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm Echelle pour la vue 1/50 Echelle pour la section 1/10	
		Nombre 1				Page 69/96	

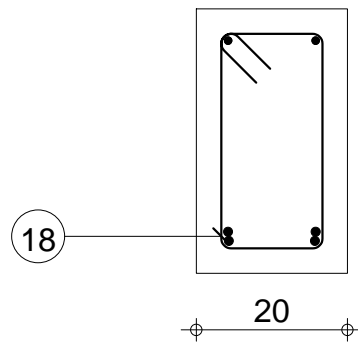


Pos.	Armature	Code	Forme
12	2HA 12 l=2.05	00	2.05
13	2HA 12 l=1.23	00	1.23
14	2HA 12 l=4.49	00	4.30
15	2HA 12 l=2.49	00	2.49
16	2HA 10 l=3.89	00	3.89
17	2HA 10 l=2.80	00	2.80
18	31RL 6 l=98	31	

G-G

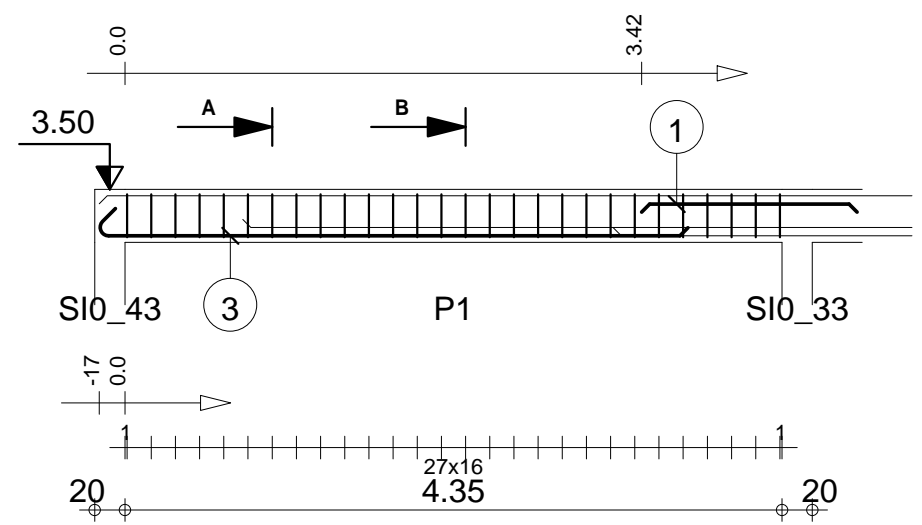


H-H

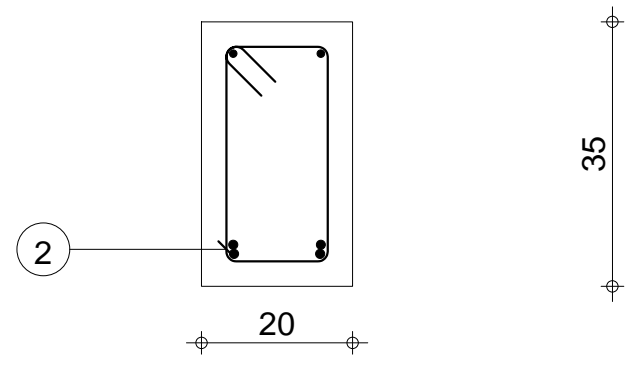


Tenu au feu 0h		Fissuration peu préjudiciable		Tél.	Fax	Béton : BETON20 = 0.36 m ³		Acier HA 400 = 26.5 kg	
				Reprise de bétonnage : Non		Surface du coffrage = 4.64 m ²		Acier RL 235 = 6.71 kg	
	LONGRINE MINHDU Haut-Nyong	G : P4 Section 20x35	Nombre 1			Enrobage inférieur 3 cm Enrobage supérieur 3 cm			
						Enrobage latéral 3 cm		Echelle pour la vue 1/50	
						Densité = 92.22 kg/ m ³		Echelle pour la section 1/10	
						Diamètre moyen = 8.76mm			

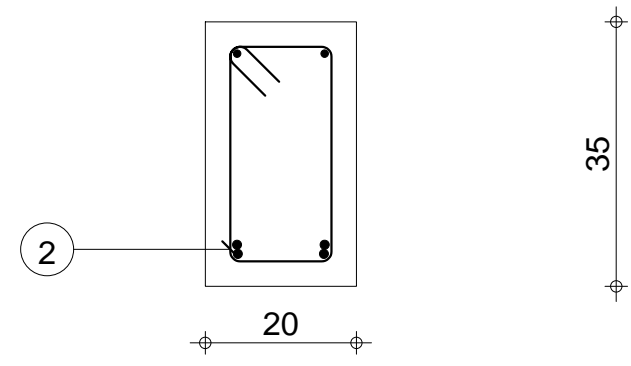
Pos.	Armature	Code	Forme
①	2HA 12 l=1.43	00	1.43
②	28RL 6 l=98	31	
③	2HA 12 l=4.09	00	3.90



A-A

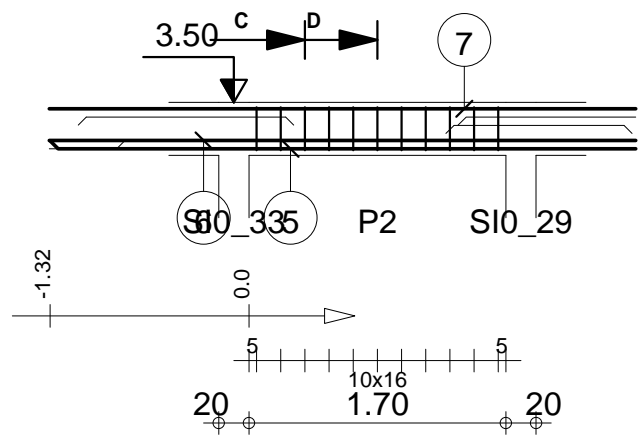


B-B

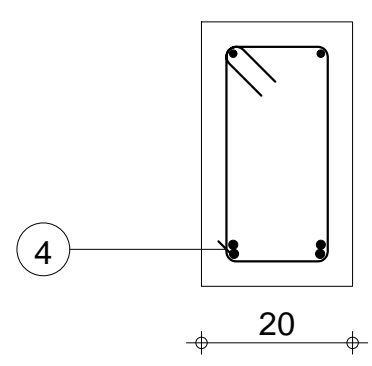


Tél.		Fax		Acier HA 400 = 9.79 kg	
Tenue au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non	
		H : P1 Section 20x35		Béton : BETON20 = 0.325 m ³ Acier RL 235 = 6.06 kg	
				Surface du coffrage = 4.19 m ² Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm	
		Nombre 1		Densité = 48.62 kg/ m ³ Echelle pour la vue 1/50 Diamètre moyen = 7.73mm Echelle pour la section 1/10	
				Page 71/96	

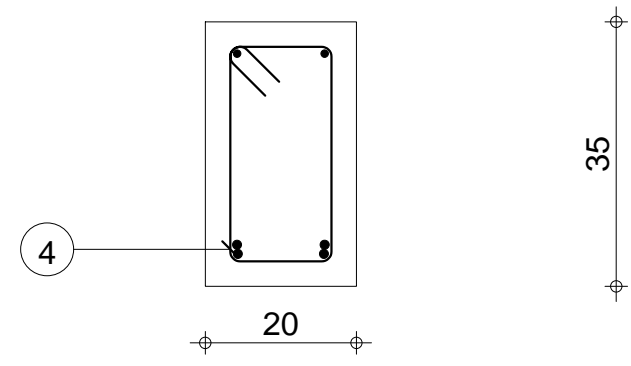
Pos.	Armature	Code	Forme
④	11RL 6 l=98	31	
⑤	2HA 12 l=4.43	00	
⑥	2HA 12 l=9.94	00	
⑦	2HA 10 l=11.64	00	



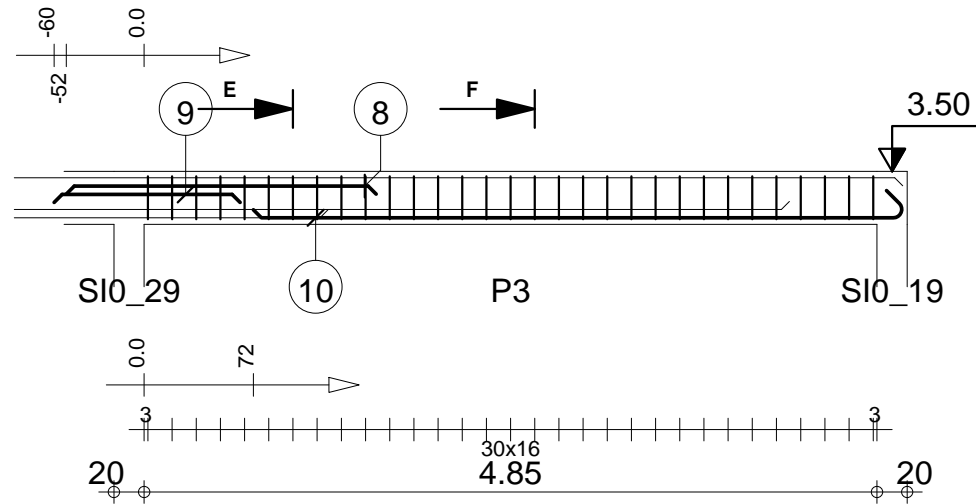
C-C



D-D

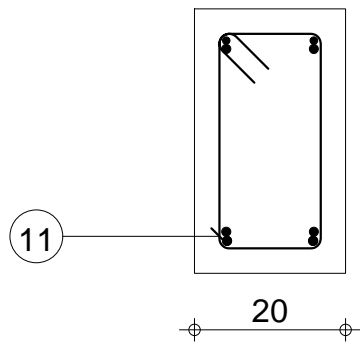


Tenu au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non		Acier HA 400 = 39.9 kg	
Tél.		Fax		Béton : BETON20 = 0.133 m ³		Acier RL 235 = 2.38 kg	
		H : P2 Section 20x35		Surface du coffrage = 1.67 m ²		Enrobage inférieur 3 cm Enrobage supérieur 3 cm	
				Enrobage latéral 3 cm		Echelle pour la vue 1/50	
		Nombre 1		Densité = 318 kg/ m ³		Echelle pour la section 1/10	
				Diamètre moyen = 10.2mm		Page 72/96	

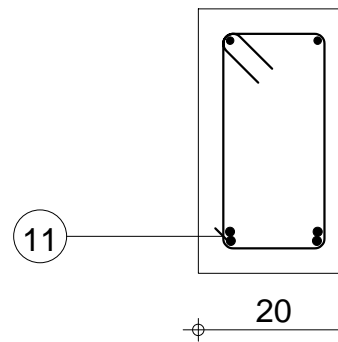


Pos.	Armature	Code	Forme
8	2HA 12 l=2.05	00	2.05
9	2HA 12 l=1.23	00	1.23
10	2HA 12 l=4.49	00	4.30
11	31RL 6 l=98	31	

E-E

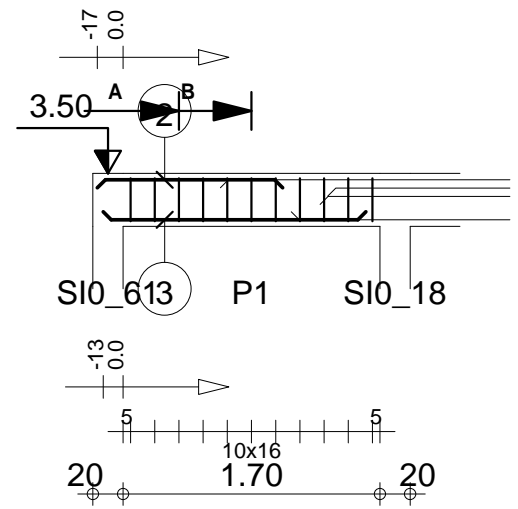


F-F

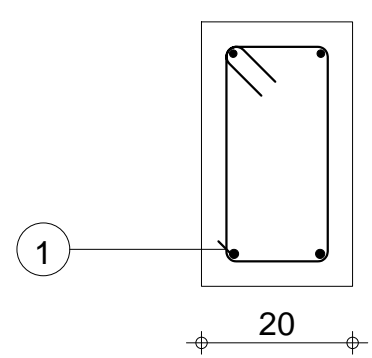


Tél.		Fax		Acier HA 400 = 13.8 kg	
Tenue au feu 0h		Fissuration peu préjudiciable		Acier RL 235 = 6.71 kg	
		Reprise de bétonnage : Non		Béton : BETON20 = 0.36 m3	
LONGRINE		H : P3		Surface du coffrage = 4.64 m ²	
MINHDU Haut-Nyong		Section 20x35		Enrobage inférieur 3 cm Enrobage supérieur 3 cm	
		Nombre 1		Enrobage latéral 3 cm	
				Densité = 56.94 kg/ m3	
				Echelle pour la vue 1/50	
				Echelle pour la section 1/10	
				Page 73/96	

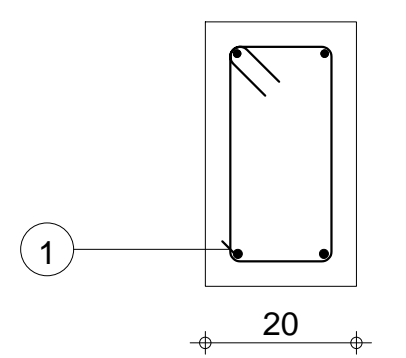
Pos.	Armature	Code	Forme
①	11RL 6 l=98	31	
②	2HA 10 l=1.23	00	
③	2HA 12 l=1.74	00	



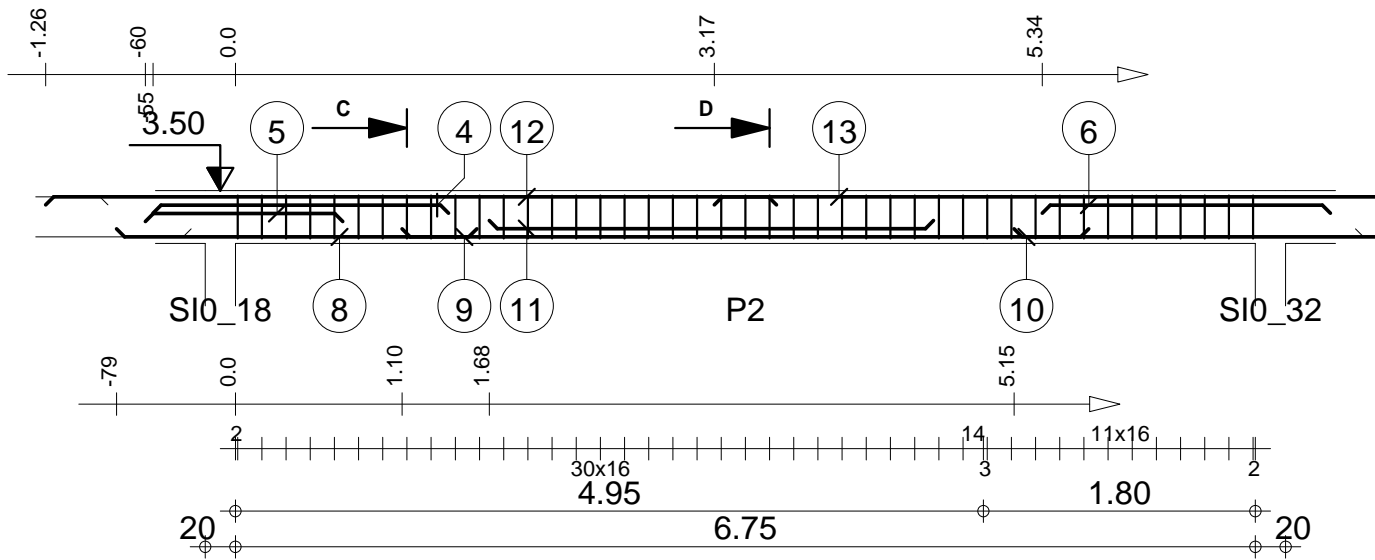
A-A



B-B

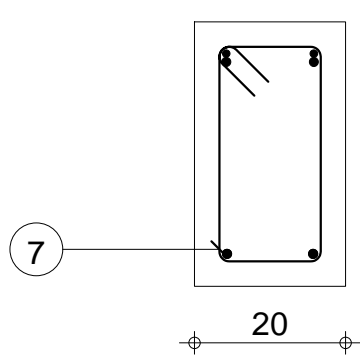


Tenu au feu 0h		Fissuration peu préjudiciable		Tél.	Fax	Béton : BETON20 = 0.14 m ³	Acier HA 400 = 4.6 kg	Acier RL 235 = 2.38 kg
		J1 : P1 Section 20x35		Reprise de bétonnage : Non Nombre 1		Surface du coffrage = 1.81 m ²	Enrobage inférieur 3 cm Enrobage supérieur 3 cm	
						Densité = 49.86 kg/ m ³ Diamètre moyen = 7.84mm	Enrobage latéral 3 cm	
						Echelle pour la vue 1/50		Page 74/96
						Echelle pour la section 1/10		

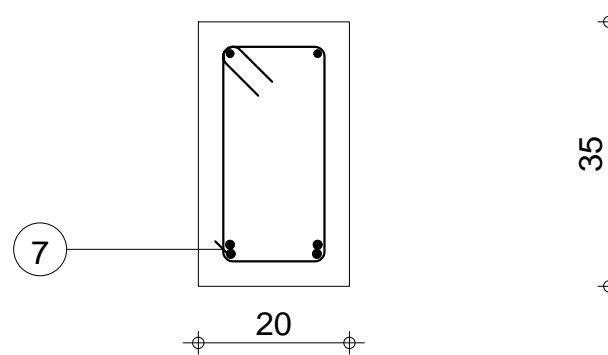


Pos.	Armature	Code	Forme
④	2HA 12 l=1.96	00	1.96
⑤	2HA 12 l=1.31	00	1.31
⑥	2HA 12 l=1.91	00	1.91
⑦	43RL 6 l=98	31	
⑧	2HA 12 l=2.38	00	2.38
⑨	2HA 12 l=4.54	00	4.54
⑩	2HA 12 l=2.75	00	2.75
⑪	2HA 12 l=2.94	00	2.94
⑫	2HA 10 l=4.84	00	4.84
⑬	2HA 10 l=5.76	00	5.76

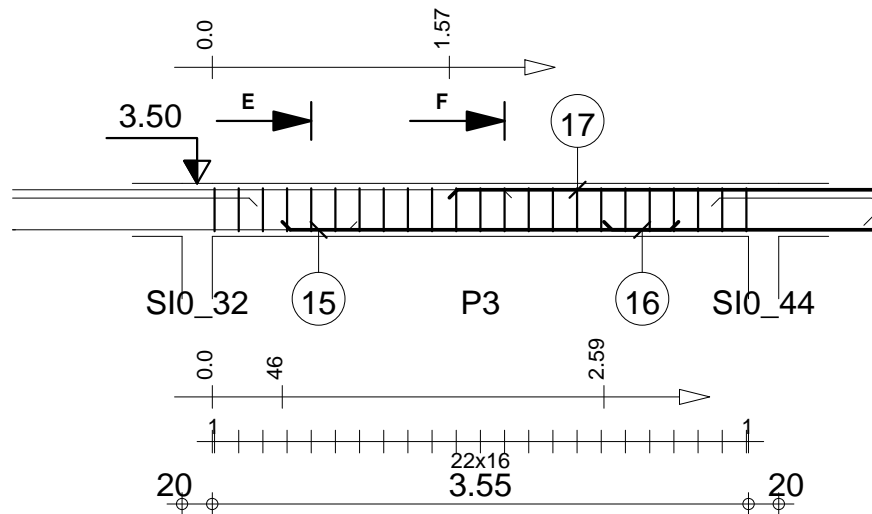
C-C



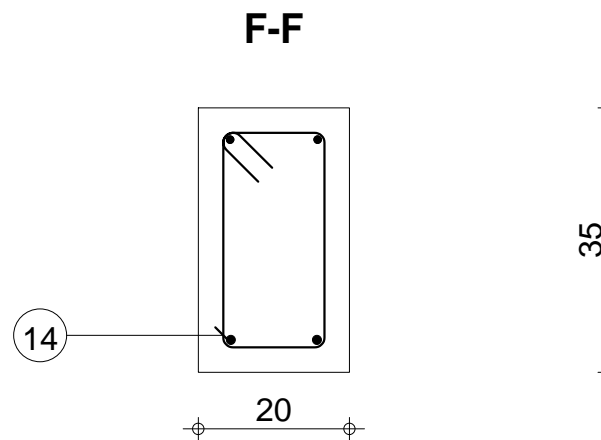
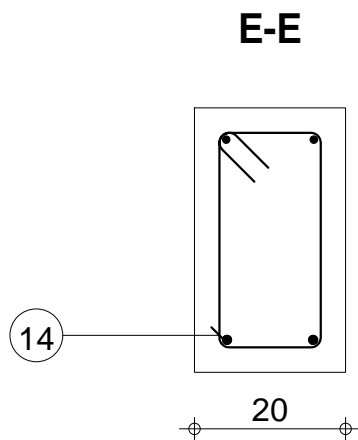
D-D



Tenu au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non		Acier HA 400 = 44.7 kg	
Tél.		Fax		Béton : BETON20 = 0.487 m ³		Acier RL 235 = 9.3 kg	
		J1 : P2 Section 20x35		Surface du coffrage = 6.21 m ²		Enrobage inférieur 3 cm Enrobage supérieur 3 cm	
				Enrobage latéral 3 cm		Echelle pour la vue 1/50	
		Nombre 1		Densité = 110.9 kg/ m ³		Echelle pour la section 1/10	
				Diamètre moyen = 9.02mm		Page 75/96	

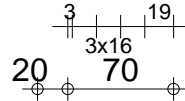
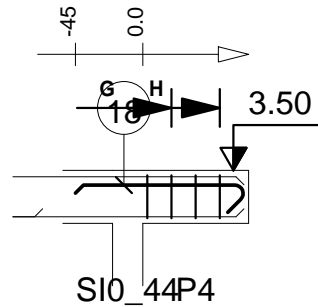


Pos.	Armature	Code	Forme
14	23RL 6	l=98	31
15	2HA 12	l=2.62	00
16	2HA 12	l=1.83	00
17	2HA 10	l=2.85	00

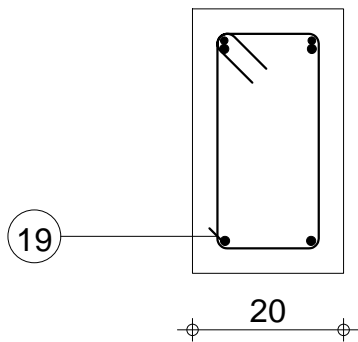


Tenu au feu 0h		Fissuration peu préjudiciable		Tél.	Fax	Acier HA 400 = 11.4 kg	
				Reprise de bétonnage : Non		Béton : BETON20 = 0.262 m ³	Acier RL 235 = 4.97 kg
	LONGRINE MINHDU Haut-Nyong	J1 : P3 Section 20x35	Nombre 1	Surface du coffrage = 3.33 m ²		Enrobage inférieur 3 cm Enrobage supérieur 3 cm	
				Densité = 62.6 kg/ m ³ Diamètre moyen = 8.06mm		Enrobage latéral 3 cm	
				Echelle pour la vue 1/50		Echelle pour la section 1/10	
						Page 76/96	

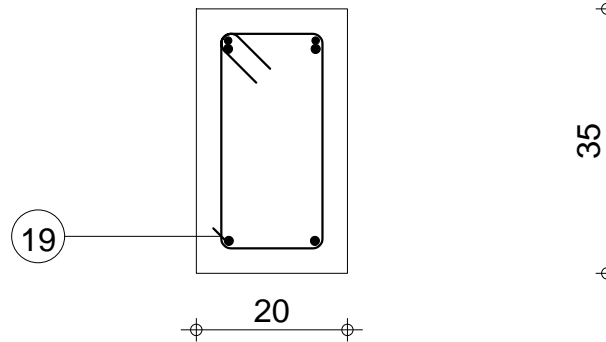
Pos.	Armature	Code	Forme
18	2HA 12 l=1.31	00	1.12
19	4RL 6 l=98	31	14 8



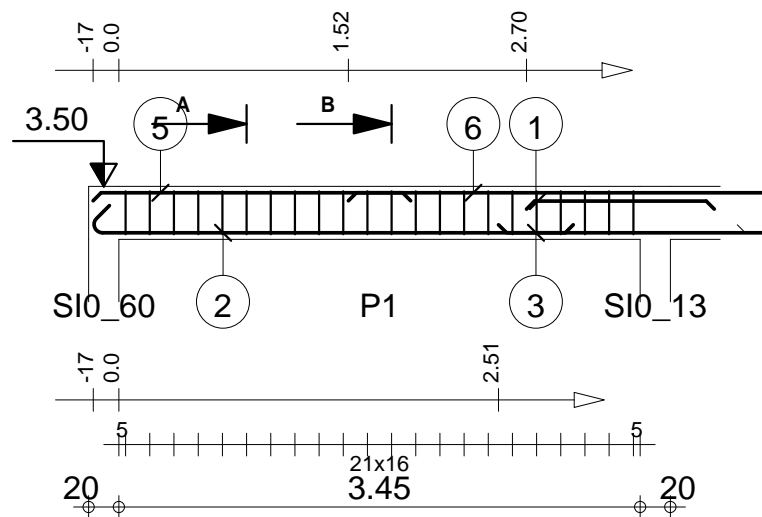
G-G



H-H

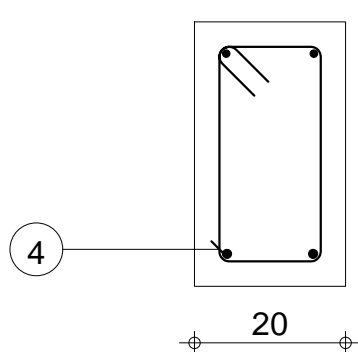


Tél.		Fax		Acier HA 400 = 2.32 kg	
Tenue au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non	
		J1 : P4 Section 20x35		Béton : BETON20 = 0.056 m ³ Acier RL 235 = 0.865 kg	
				Surface du coffrage = 0.77 m ² Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm	
		Nombre 1		Densité = 56.79 kg/ m ³ Echelle pour la vue 1/50 Diamètre moyen = 8.41mm Echelle pour la section 1/10	
				Page 77/96	

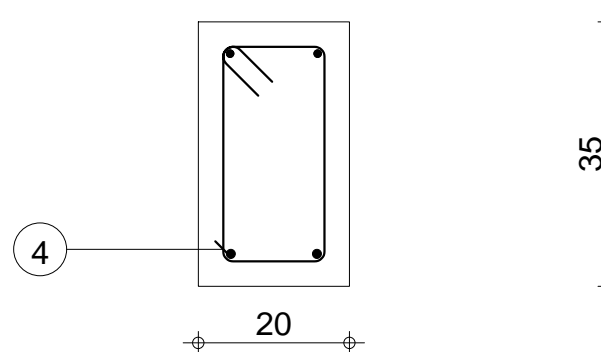


Pos.	Armature	Code	Forme
①	2HA 12 l=1.24	00	1.24
②	2HA 12 l=3.37	00	3.18
③	2HA 12 l=2.07	00	2.07
④	22RL 6 l=98	31	
⑤	2HA 10 l=2.10	00	2.10
⑥	2HA 10 l=4.06	00	4.06

A-A



B-B



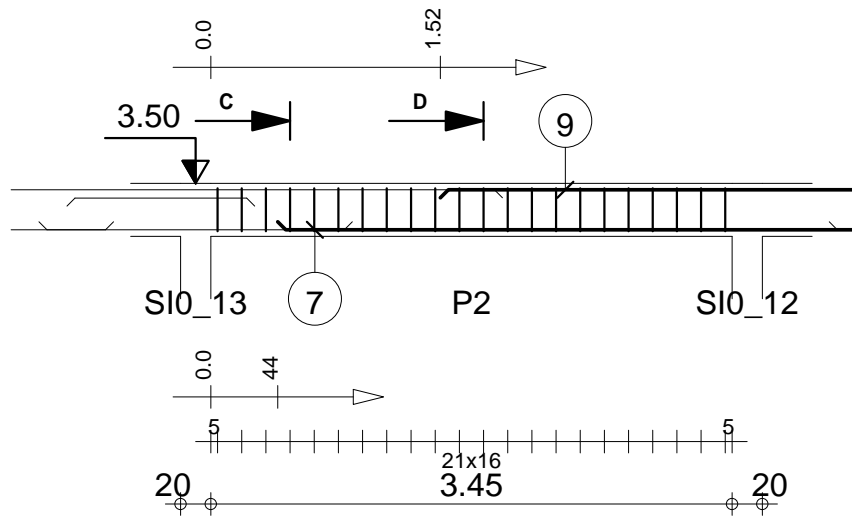
Tenu au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non		Acier HA 400 = 19.5 kg	
Tél.		Fax		Béton : BETON20 = 0.262 m ³		Acier RL 235 = 4.76 kg	
Surface du coffrage = 3.38 m ²		Enrobage inférieur 3 cm		Enrobage supérieur 3 cm		Enrobage latéral 3 cm	
Densité = 92.37 kg/ m ³		Echelle pour la vue 1/50		Echelle pour la section 1/10		Page 78/96	
Diamètre moyen = 8.75mm							



LONGRINE
MINHDU Haut-Nyong

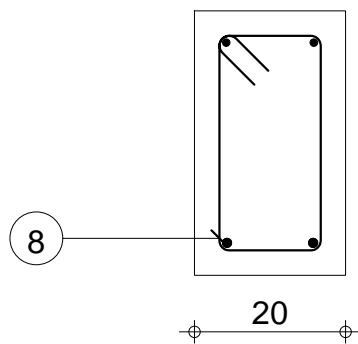
J2 : P1
Section 20x35

Nombre 1

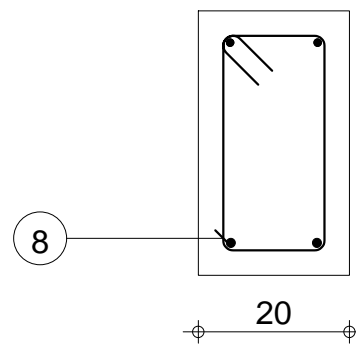


Pos.	Armature	Code	Forme
7	2HA 12 l=4.14	00	4.14
8	22RL 6 l=98	31	
9	2HA 10 l=4.06	00	4.06

C-C

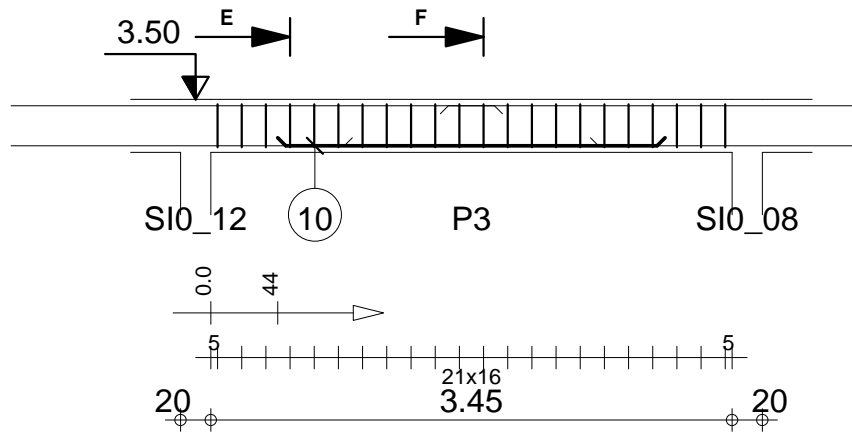


D-D

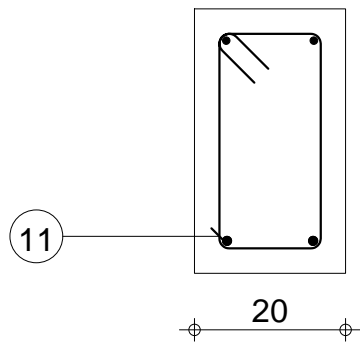


Tenu au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non		Acier HA 400 = 12.4 kg	
Tél.		Fax		Béton : BETON20 = 0.255 m ³		Acier RL 235 = 4.76 kg	
		J2 : P2 Section 20x35		Surface du coffrage = 3.24 m ²		Enrobage inférieur 3 cm Enrobage supérieur 3 cm	
				Enrobage latéral 3 cm		Echelle pour la vue 1/50	
		Nombre 1		Densité = 67.06 kg/ m ³		Echelle pour la section 1/10	
				Diamètre moyen = 8.17mm		Page 79/96	

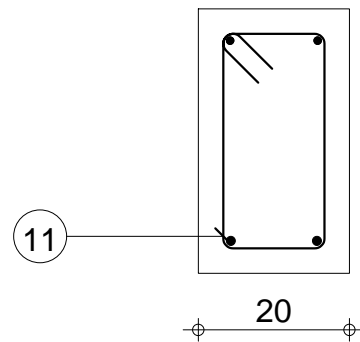
Pos.	Armature	Code	Forme
10	2HA 12 l=2.56	00	2.56
11	22RL 6 l=98	31	14 8





E-E

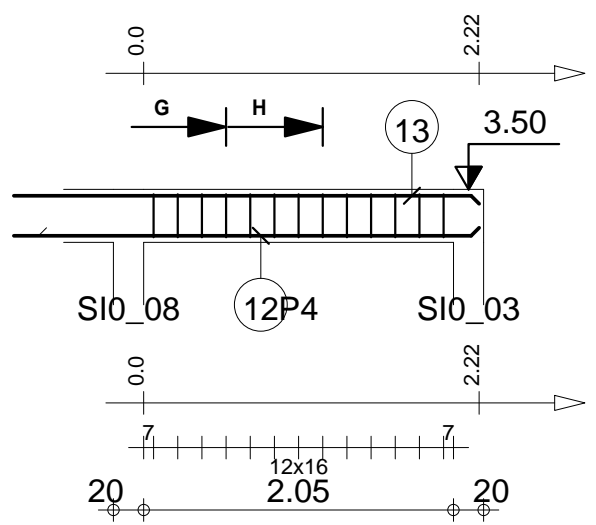


F-F

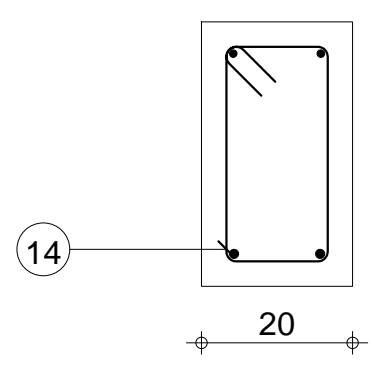


Tenu au feu 0h		Fissuration peu préjudiciable		Tél.	Fax	Acier HA 400 = 4.55 kg	
				Reprise de bétonnage : Non		Béton : BETON20 = 0.255 m ³	Acier RL 235 = 4.76 kg
 LONGRINE MINH DU Haut-Nyong	J2 : P3 Section 20x35	Nombre 1		Surface du coffrage = 3.24 m ²		Enrobage inférieur 3 cm Enrobage supérieur 3 cm	
				Densité = 36.51 kg/ m ³ Diamètre moyen = 7.16mm		Enrobage latéral 3 cm	
						Page 80/96	

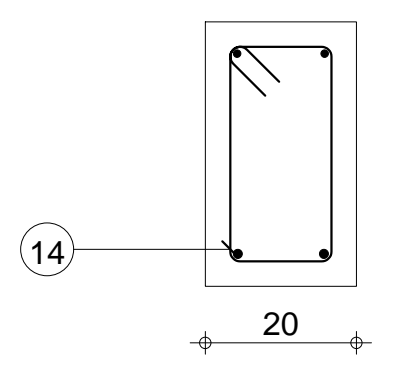
Pos.	Armature	Code	Forme
12	2HA 12 l=3.36	00	3.36
13	2HA 10 l=4.35	00	4.35
14	13RL 6 l=98	31	




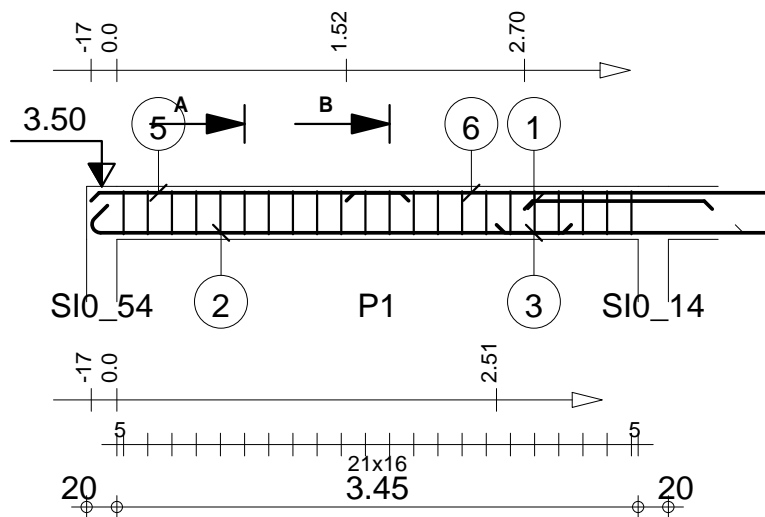
G-G



H-H

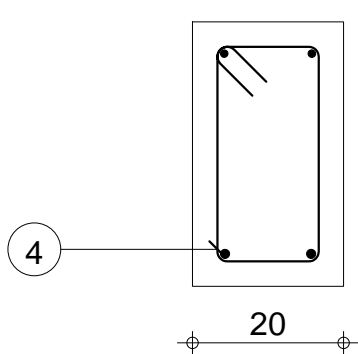


Tél.		Fax		Acier HA 400 = 11.3 kg	
Tenue au feu 0h		Fissuration peu préjudiciable		Acier RL 235 = 2.81 kg	
		Reprise de bétonnage : Non		Béton : BETON20 = 0.164 m ³	
 LONGRINE MINHDU Haut-Nyong		J2 : P4 Section 20x35		Surface du coffrage = 2.13 m ²	
				Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm	
		Densité = 85.98 kg/ m ³		Echelle pour la vue 1/50	
		Diamètre moyen = 8.67mm		Echelle pour la section 1/10	
		Nombre 1		Page 81/96	

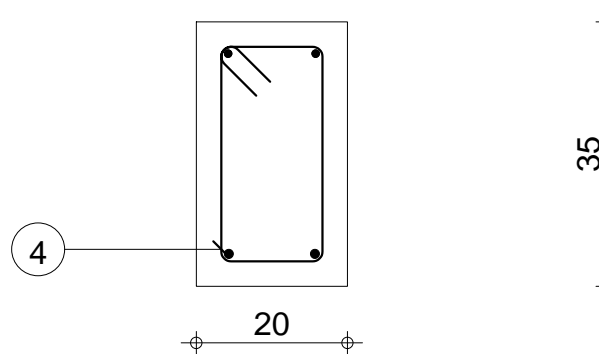


Pos.	Armature	Code	Forme
①	2HA 12 l=1.24	00	1.24
②	2HA 12 l=3.37	00	3.18
③	2HA 12 l=2.07	00	2.07
④	22RL 6 l=98	31	
⑤	2HA 10 l=2.10	00	2.10
⑥	2HA 10 l=4.06	00	4.06

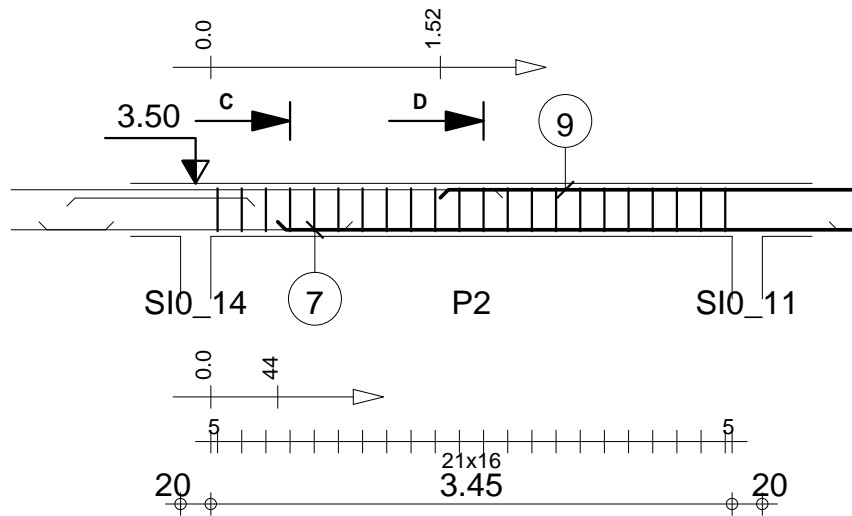
A-A



B-B

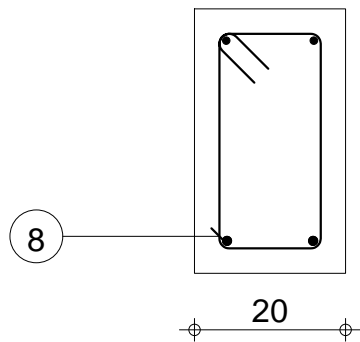


Tenu au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non		Acier HA 400 = 19.5 kg	
Tél.		Fax		Béton : BETON20 = 0.262 m ³		Acier RL 235 = 4.76 kg	
		N2 : P1		Surface du coffrage = 3.38 m ²		Enrobage inférieur 3 cm Enrobage supérieur 3 cm	
MINHDU Haut-Nyong		Section 20x35		Densité = 92.37 kg/ m ³		Enrobage latéral 3 cm	
		Nombre 1		Diamètre moyen = 8.75mm		Echelle pour la vue 1/50	
						Echelle pour la section 1/10	
						Page 82/96	

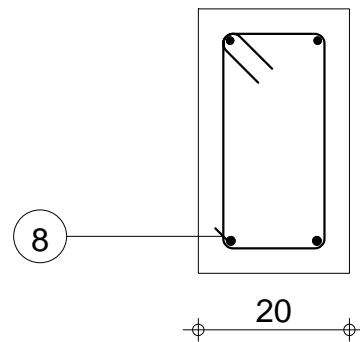


Pos.	Armature	Code	Forme
7	2HA 12 l=4.14	00	4.14
8	22RL 6 l=98	31	
9	2HA 10 l=4.06	00	4.06

C-C

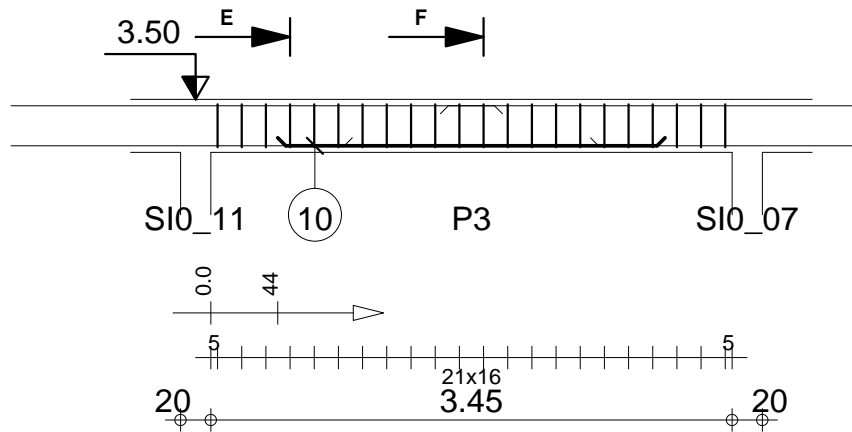


D-D

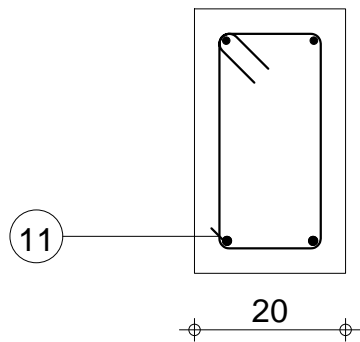


Tenu au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non		Acier HA 400 = 12.4 kg	
Tél.		Fax		Béton : BETON20 = 0.255 m ³		Acier RL 235 = 4.76 kg	
		N2 : P2 Section 20x35		Surface du coffrage = 3.24 m ²		Enrobage inférieur 3 cm Enrobage supérieur 3 cm	
				Densité = 67.06 kg/ m ³		Enrobage latéral 3 cm	
PRO		Nombre 1		Diamètre moyen = 8.17mm		Echelle pour la vue 1/50	
						Echelle pour la section 1/10	
						Page 83/96	

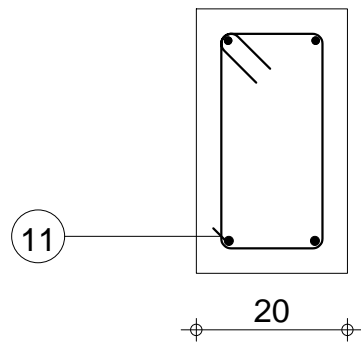
Pos.	Armature	Code	Forme
⑩	2HA 12 l=2.56	00	2.56
⑪	22RL 6 l=98	31	



E-E



F-F




Tenu au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non		Acier HA 400 = 4.55 kg	
Tél.		Fax		Béton : BETON20 = 0.255 m ³		Acier RL 235 = 4.76 kg	
Surface du coffrage = 3.24 m ²		Enrobage inférieur 3 cm		Enrobage supérieur 3 cm		Enrobage latéral 3 cm	
Densité = 36.51 kg/ m ³		Echelle pour la vue 1/50		Echelle pour la section 1/10		Page 84/96	
Diamètre moyen = 7.16mm							

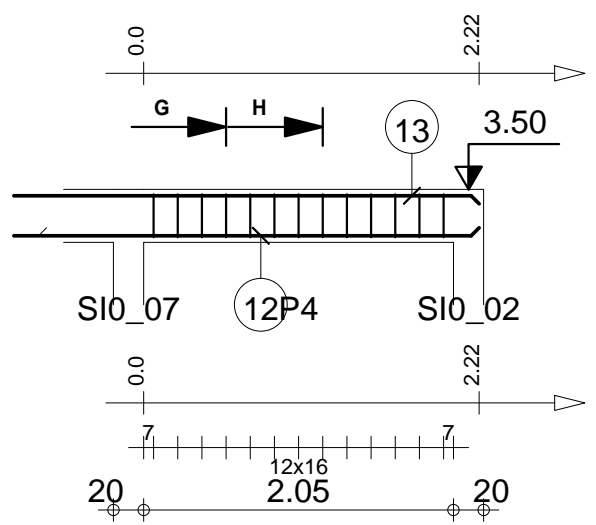


LONGRINE
MINH DU Haut-Nyong

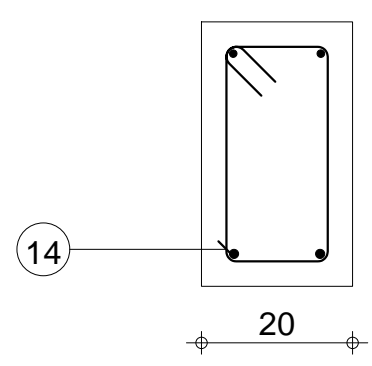
N2 : P3
Section 20x35

Nombre 1

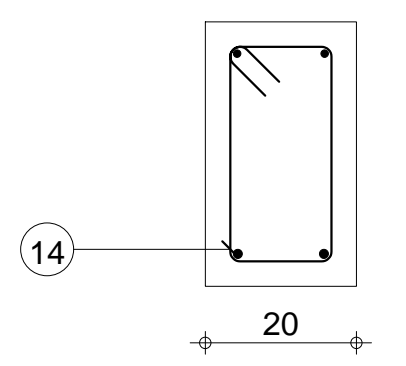
Pos.	Armature	Code	Forme
12	2HA 12 l=3.36	00	3.36
13	2HA 10 l=4.35	00	4.35
14	13RL 6 l=98	31	




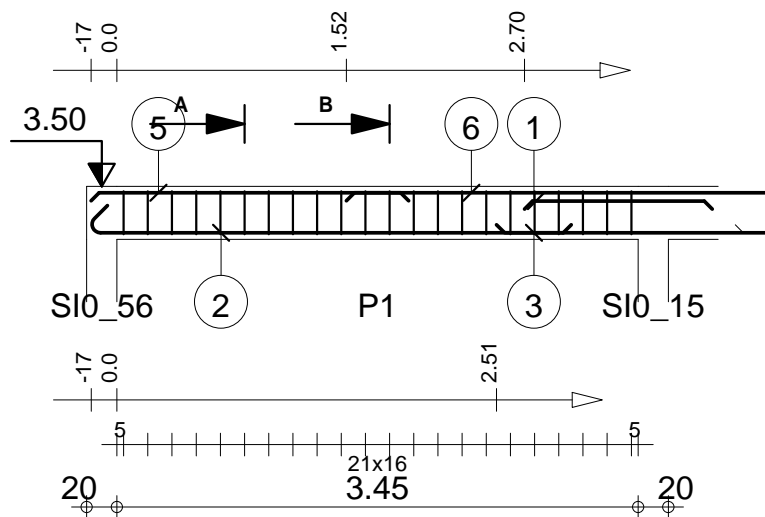
G-G



H-H

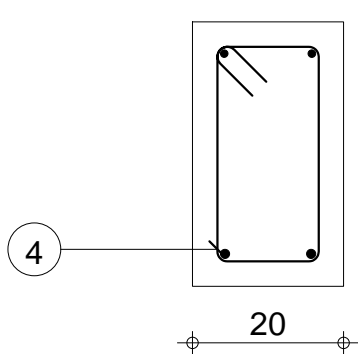


Tél.		Fax		Acier HA 400 = 11.3 kg	
Tenue au feu 0h		Fissuration peu préjudiciable		Acier RL 235 = 2.81 kg	
		Reprise de bétonnage : Non		Béton : BETON20 = 0.164 m ³	
 LONGRINE MINHDU Haut-Nyong		N2 : P4 Section 20x35		Surface du coffrage = 2.13 m ²	
				Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm	
		Densité = 85.98 kg/ m ³		Echelle pour la vue 1/50	
		Diamètre moyen = 8.67mm		Echelle pour la section 1/10	
		Nombre 1		Page 85/96	

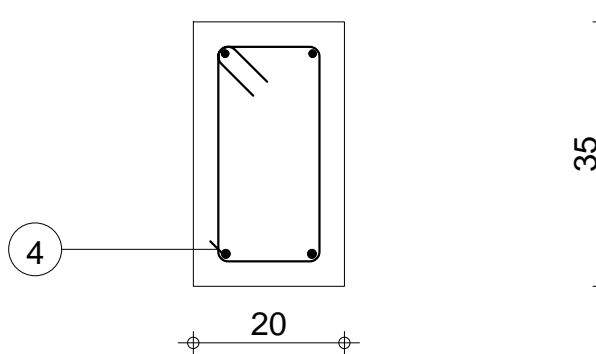


Pos.	Armature	Code	Forme
①	2HA 12 l=1.24	00	1.24
②	2HA 12 l=3.37	00	3.18
③	2HA 12 l=2.07	00	2.07
④	22RL 6 l=98	31	
⑤	2HA 10 l=2.10	00	2.10
⑥	2HA 10 l=4.06	00	4.06

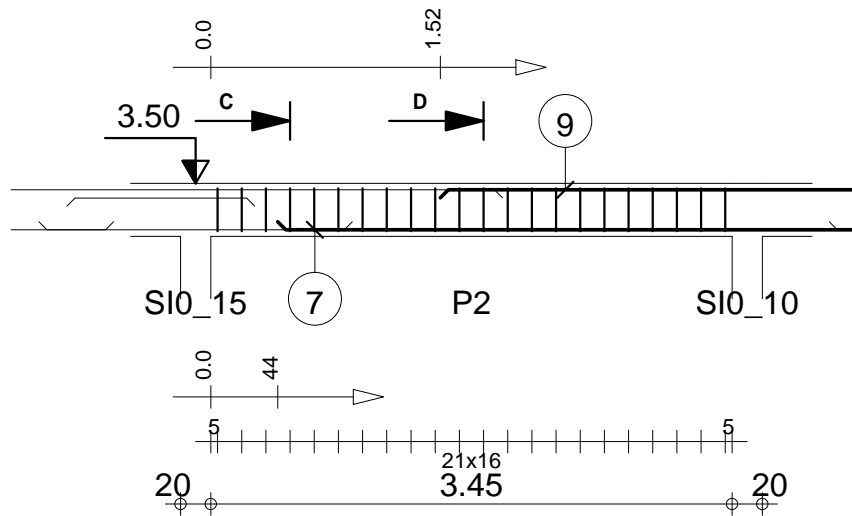
A-A



B-B

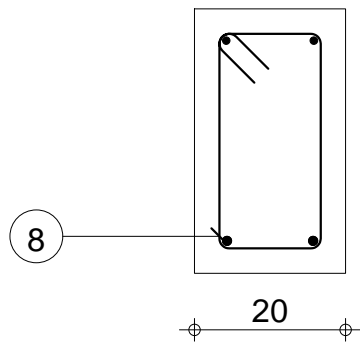


Tenu au feu 0h		Fissuration peu préjudiciable		Tél.	Fax	Acier HA 400 = 19.5 kg	
				Reprise de bétonnage : Non		Béton : BETON20 = 0.262 m ³	Acier RL 235 = 4.76 kg
	LONGRINE MINHDU Haut-Nyong	02 : P1 Section 20x35	Nombre 1	Surface du coffrage = 3.38 m ²		Enrobage inférieur 3 cm Enrobage supérieur 3 cm	
				Densité = 92.37 kg/ m ³ Diamètre moyen = 8.75mm		Enrobage latéral 3 cm	
				Echelle pour la vue 1/50		Echelle pour la section 1/10	
						Page 86/96	

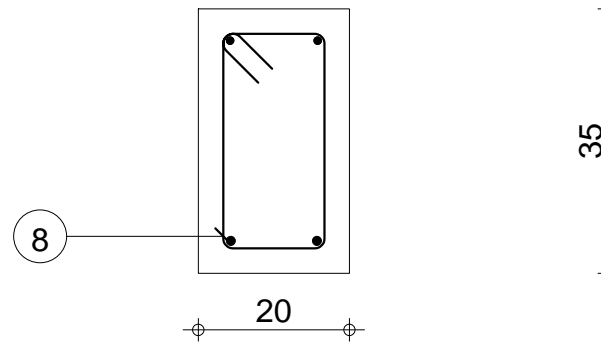


Pos.	Armature	Code	Forme
7	2HA 12 l=4.14	00	4.14
8	22RL 6 l=98	31	
9	2HA 10 l=4.06	00	4.06

C-C

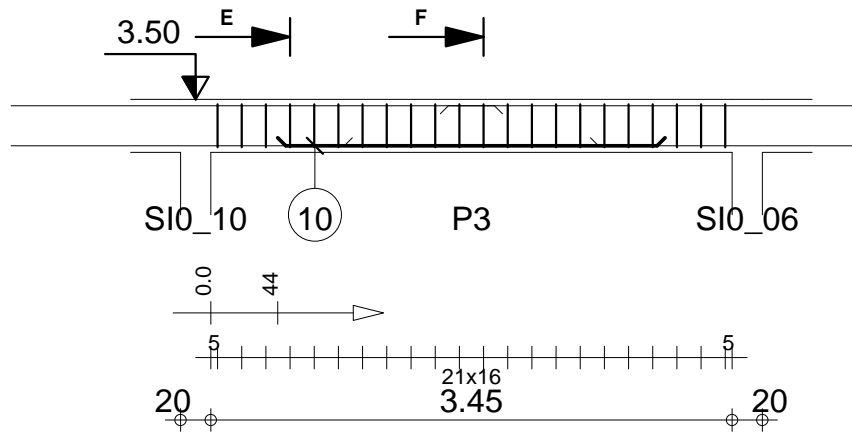


D-D

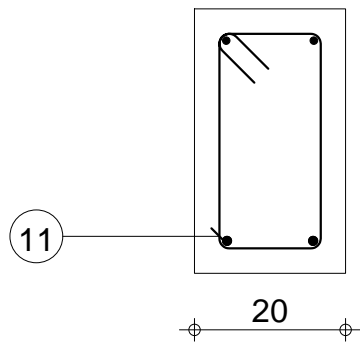


Tenu au feu 0h		Fissuration peu préjudiciable		Tél.	Fax	Béton : BETON20 = 0.255 m ³	Acier HA 400 = 12.4 kg	Acier RL 235 = 4.76 kg
		02 : P2 Section 20x35		Reprise de bétonnage : Non Nombre 1		Surface du coffrage = 3.24 m ²	Enrobage inférieur 3 cm Enrobage supérieur 3 cm	
						Densité = 67.06 kg/ m ³ Diamètre moyen = 8.17mm	Enrobage latéral 3 cm	
						Echelle pour la vue 1/50		Page 87/96
						Echelle pour la section 1/10		

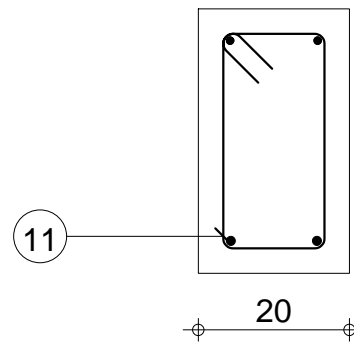
Pos.	Armature	Code	Forme
10	2HA 12 l=2.56	00	2.56
11	22RL 6 l=98	31	14 8





E-E

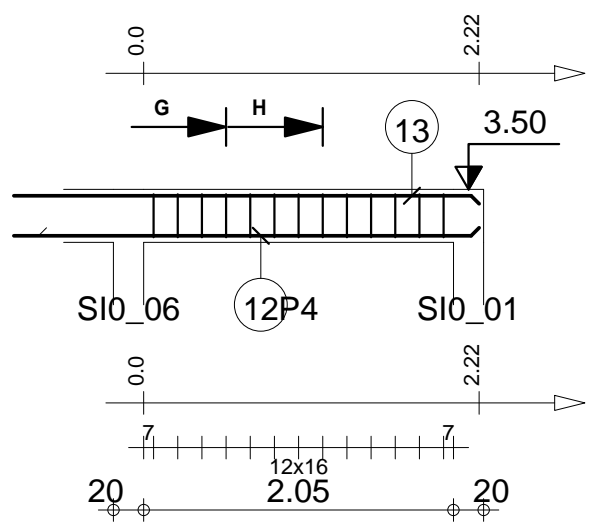


F-F

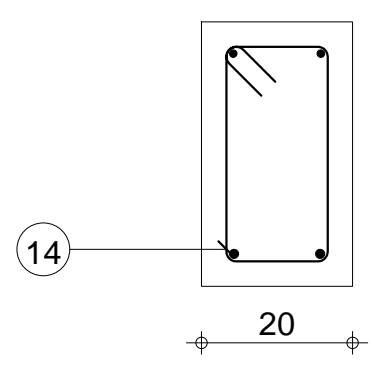


Tenu au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non		Acier HA 400 = 4.55 kg	
Tél.		Fax		Béton : BETON20 = 0.255 m ³		Acier RL 235 = 4.76 kg	
 LONGRINE MINH DU Haut-Nyong		02 : P3 Section 20x35		Surface du coffrage = 3.24 m ² Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm		Densité = 36.51 kg/ m ³ Diamètre moyen = 7.16mm	
		Nombre 1		Echelle pour la vue 1/50 Echelle pour la section 1/10		Page 88/96	

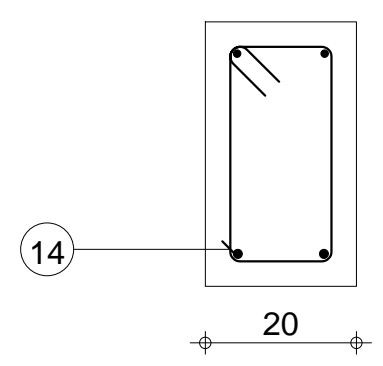
Pos.	Armature	Code	Forme
12	2HA 12 l=3.36	00	3.36
13	2HA 10 l=4.35	00	4.35
14	13RL 6 l=98	31	





G-G

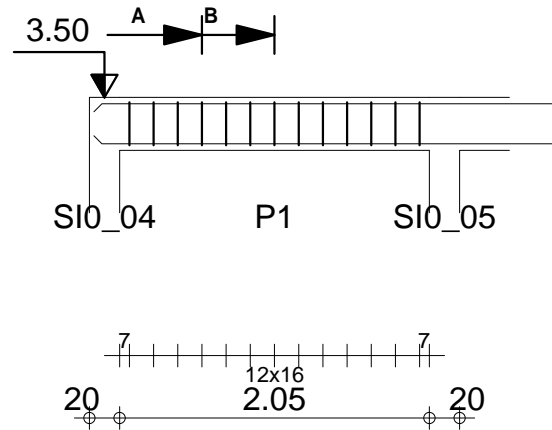


H-H

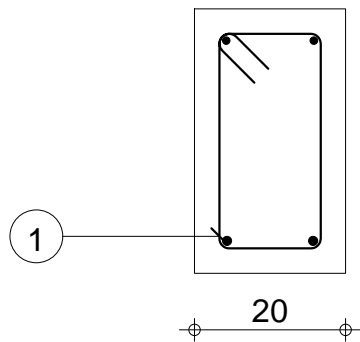


Tél.		Fax		Acier HA 400 = 11.3 kg	
Tenue au feu 0h		Fissuration peu préjudiciable		Acier RL 235 = 2.81 kg	
		Reprise de bétonnage : Non		Béton : BETON20 = 0.164 m ³	
 LONGRINE MINHDU Haut-Nyong		02 : P4 Section 20x35		Surface du coffrage = 2.13 m ²	
				Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm	
		Nombre 1		Densité = 85.98 kg/ m ³	
				Diamètre moyen = 8.67mm	
				Echelle pour la vue 1/50	
				Echelle pour la section 1/10	
				Page 89/96	

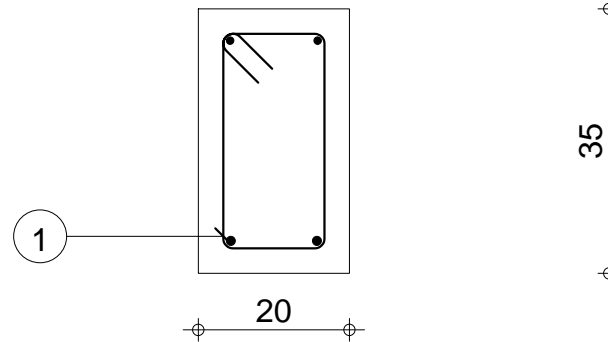
Pos.	Armature	Code	Forme
1	13RL 6	l=98	31 




A-A

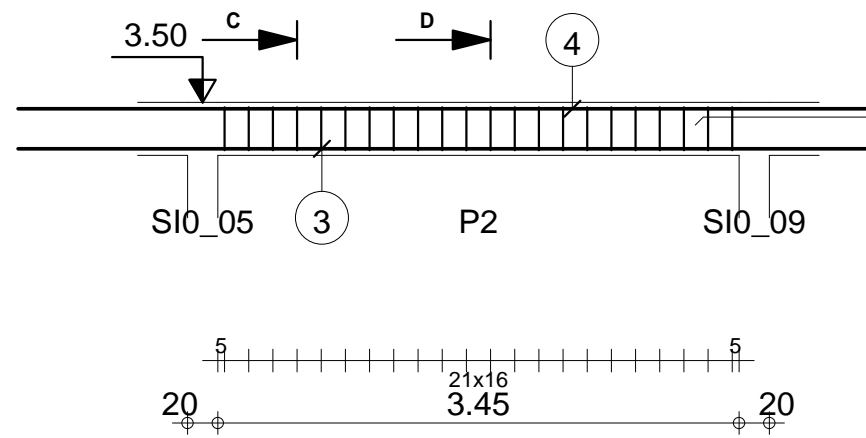


B-B

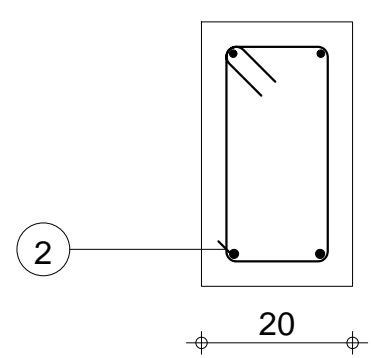


Tenu au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non		Béton : BETON20 = 0.164 m ³		Acier RL 235 = 2.81 kg	
 LONGRINE MINHDU Haut-Nyong		R : P1 Section 20x35		Nombre 1		Surface du coffrage = 2.12 m ²		Enrobage inférieur 3 cm Enrobage supérieur 3 cm	
						Densité = 17.13 kg/ m ³		Enrobage latéral 3 cm	
						Diamètre moyen = 6mm		Echelle pour la vue 1/50	
								Echelle pour la section 1/10	
								Page 90/96	

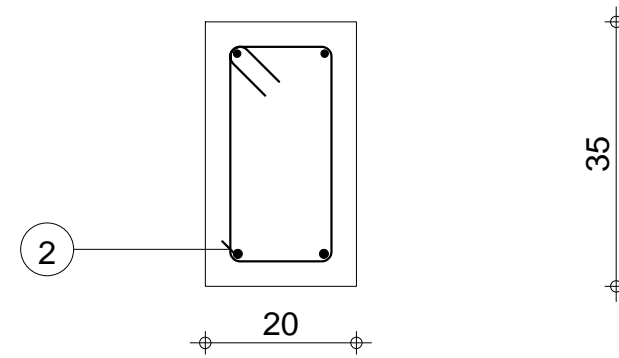
Pos.	Armature	Code	Forme
②	22RL 6 l=98	31	
③	2HA 12 l=9.88	00	
④	2HA 10 l=9.69	00	



C-C

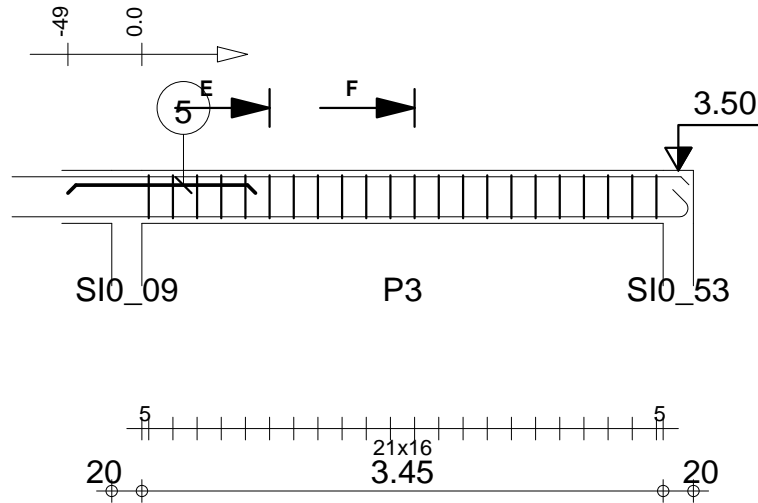


D-D

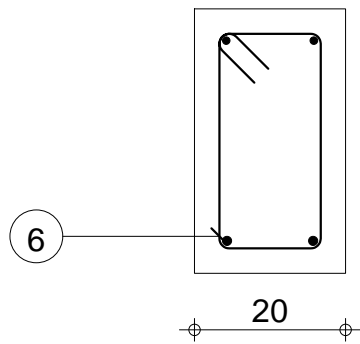


Tél.		Fax		Acier HA 400 = 29.5 kg	
Tenue au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non	
		R : P2 Section 20x35		Béton : BETON20 = 0.255 m ³ Acier RL 235 = 4.76 kg	
				Surface du coffrage = 3.24 m ² Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm	
		Nombre 1		Densité = 134.5 kg/ m ³ Echelle pour la vue 1/50 Diamètre moyen = 9.24mm Echelle pour la section 1/10	
				Page 91/96	

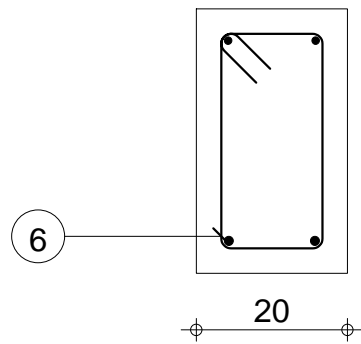
Pos.	Armature	Code	Forme
5	2HA 12 l=1.24	00	1.24
6	22RL 6 l=98	31	




E-E

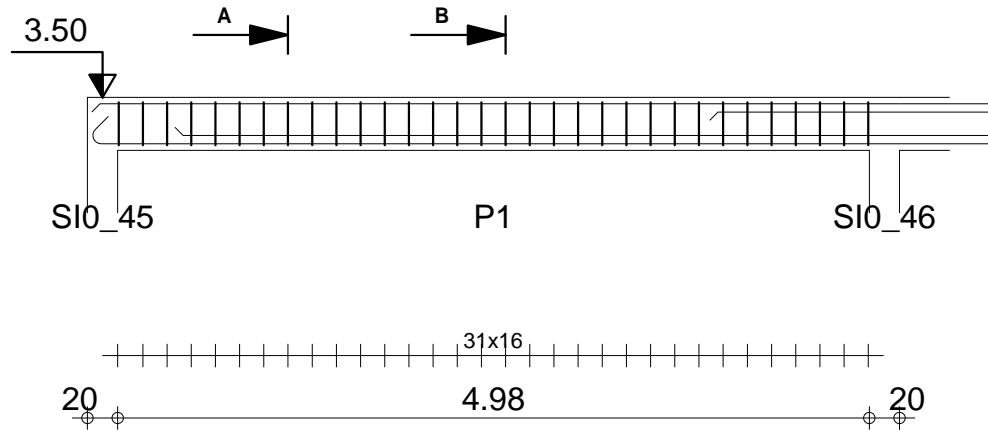


F-F

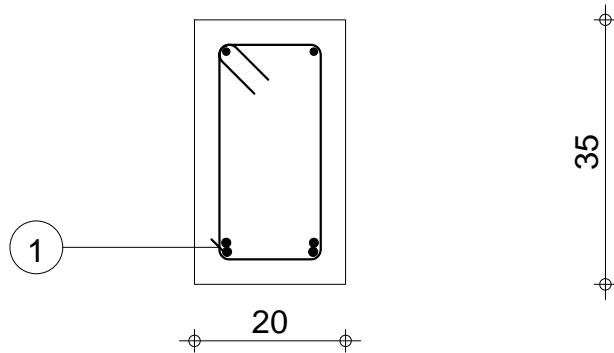


Tenu au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non		Acier HA 400 = 2.21 kg	
Tél.		Fax		Béton : BETON20 = 0.262 m ³		Acier RL 235 = 4.76 kg	
		R : P3		Surface du coffrage = 3.38 m ²		Enrobage inférieur 3 cm Enrobage supérieur 3 cm	
MINHDU Haut-Nyong		Section 20x35		Densité = 26.56 kg/ m ³		Enrobage latéral 3 cm	
		Nombre 1		Diamètre moyen = 6.62mm		Echelle pour la vue 1/50	
						Echelle pour la section 1/10	
						Page 92/96	

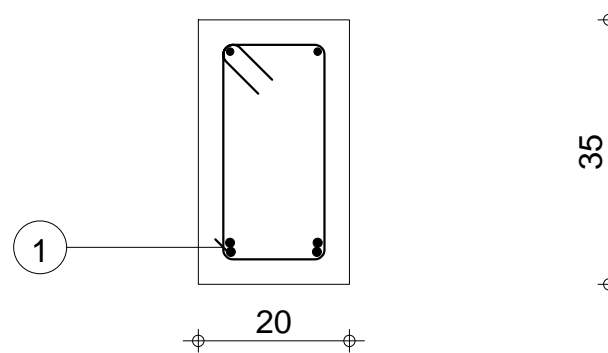
Pos.	Armature	Code	Forme
1	32RL 6	l=98	31 



A-A



B-B



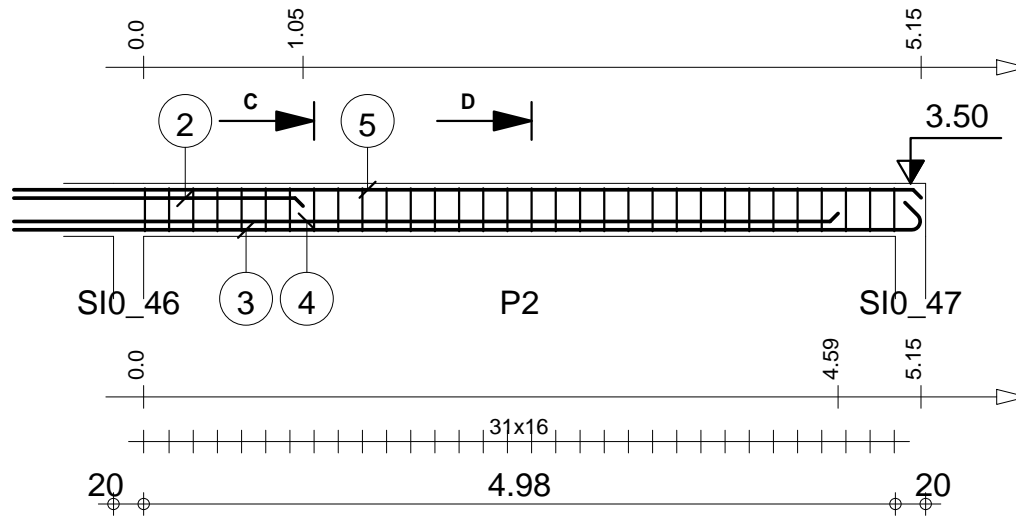
Tél.		Fax		Béton : BETON20 = 0.369 m ³		Acier RL 235 = 6.92 kg	
Tenue au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non		Surface du coffrage = 4.76 m ²	
Enrobage inférieur 3 cm		Enrobage supérieur 3 cm		Enrobage latéral 3 cm		Echelle pour la vue 1/50	
Echelle pour la section 1/10		Page 93/96		Densité = 18.75 kg/ m ³		Diamètre moyen = 6mm	



LONGRINE
MINH DU Haut-Nyong

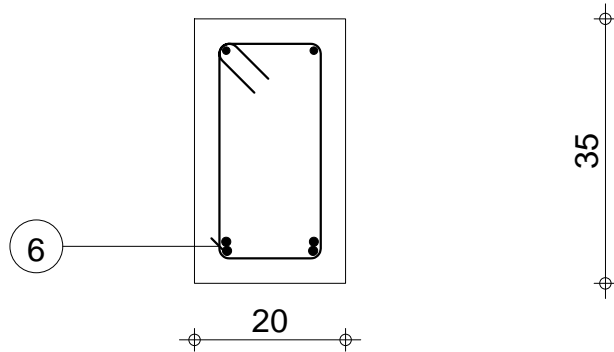
MO : P1
Section 20x35

Nombre 1

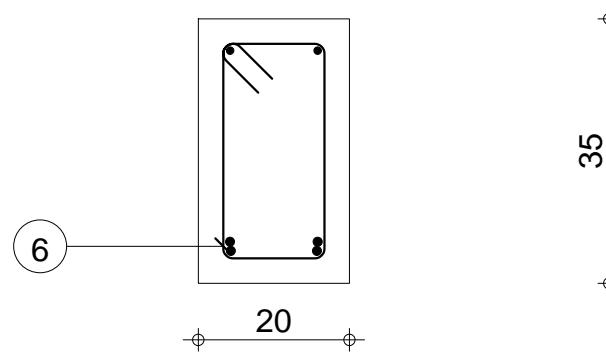


Pos.	Armature	Code	Forme
②	2HA 12 l=2.31	00	2.31
③	2HA 12 l=10.87	00	10.49
④	2HA 12 l=9.39	00	9.39
⑤	2HA 10 l=10.49	00	10.49
⑥	32RL 6 l=98	31	14 8

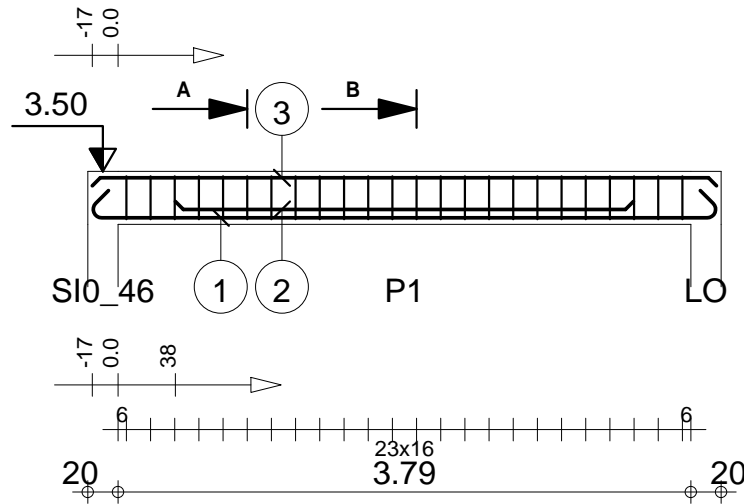
C-C



D-D

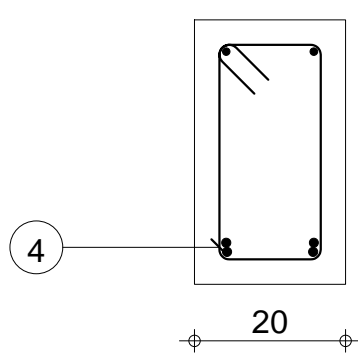


Tél.		Fax		Acier HA 400 = 53 kg	
Tenue au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non	
		MO : P2 Section 20x35		Béton : BETON20 = 0.369 m ³ Acier RL 235 = 6.92 kg	
				Surface du coffrage = 4.76 m ² Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm	
		Nombre 1		Densité = 162.3 kg/ m ³ Echelle pour la vue 1/50 Diamètre moyen = 9.65mm Echelle pour la section 1/10	
				Page 94/96	

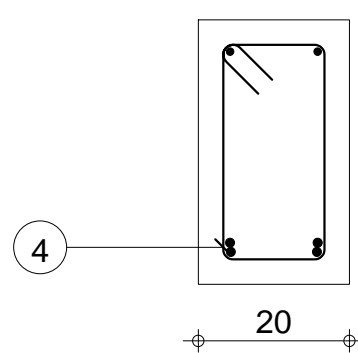


Pos.	Armature	Code	Forme
①	2HA 12 l=4.51	00	
②	2HA 12 l=3.03	00	
③	2HA 10 l=4.13	00	
④	24RL 6 l=98	31	

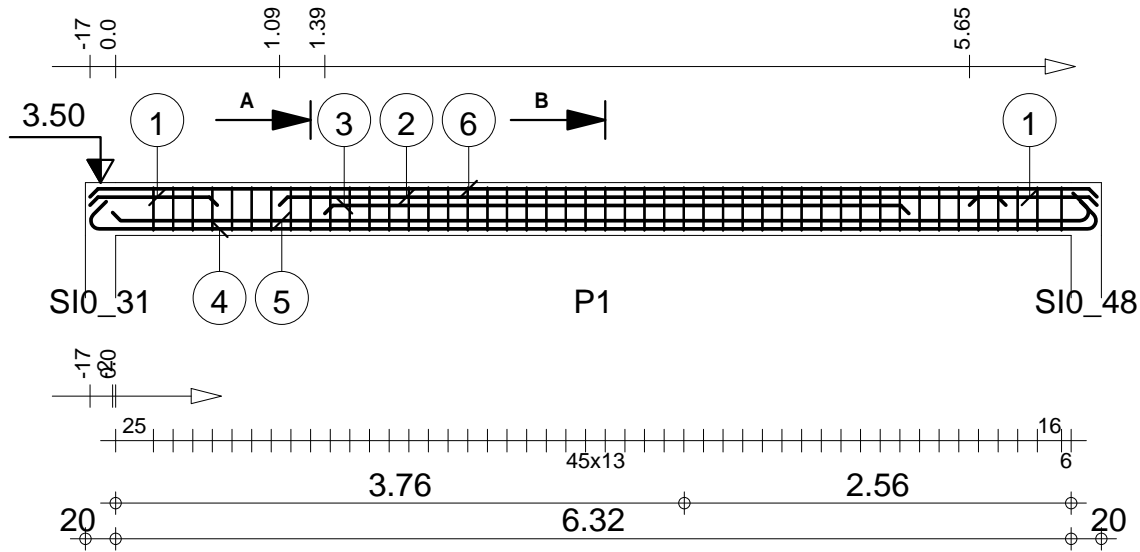
A-A



B-B

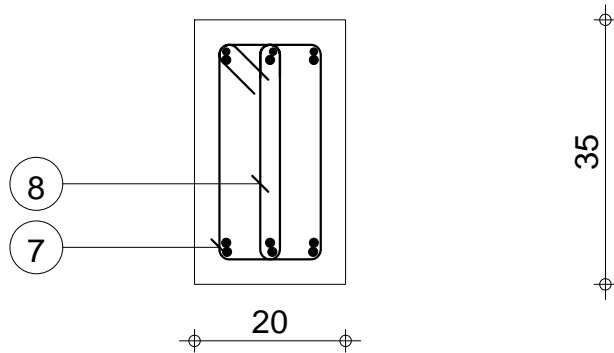


Tél.		Fax		Acier HA 400 = 18.5 kg	
Tenue au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non	
		NP : P1 Section 20x35		Béton : BETON20 = 0.293 m ³ Acier RL 235 = 5.19 kg	
				Surface du coffrage = 3.83 m ² Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm	
		Nombre 1		Densité = 80.89 kg/ m ³ Echelle pour la vue 1/50 Diamètre moyen = 8.64mm Echelle pour la section 1/10	
				Page 95/96	

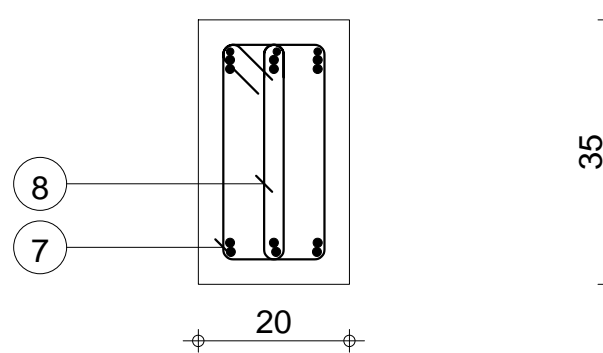


Pos.	Armature	Code	Forme
①	6HA 12 l=84	00	84
②	3HA 12 l=4.81	00	4.81
③	3HA 12 l=3.87	00	3.86
④	3HA 12 l=7.04	00	6.66
⑤	3HA 12 l=6.65	00	6.46
⑥	3HA 10 l=6.66	00	6.66
⑦	47RL 6 l=98	31	
⑧	47RL 6 l=70		

A-A



B-B




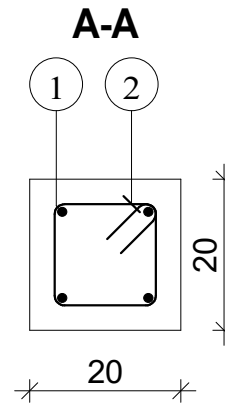
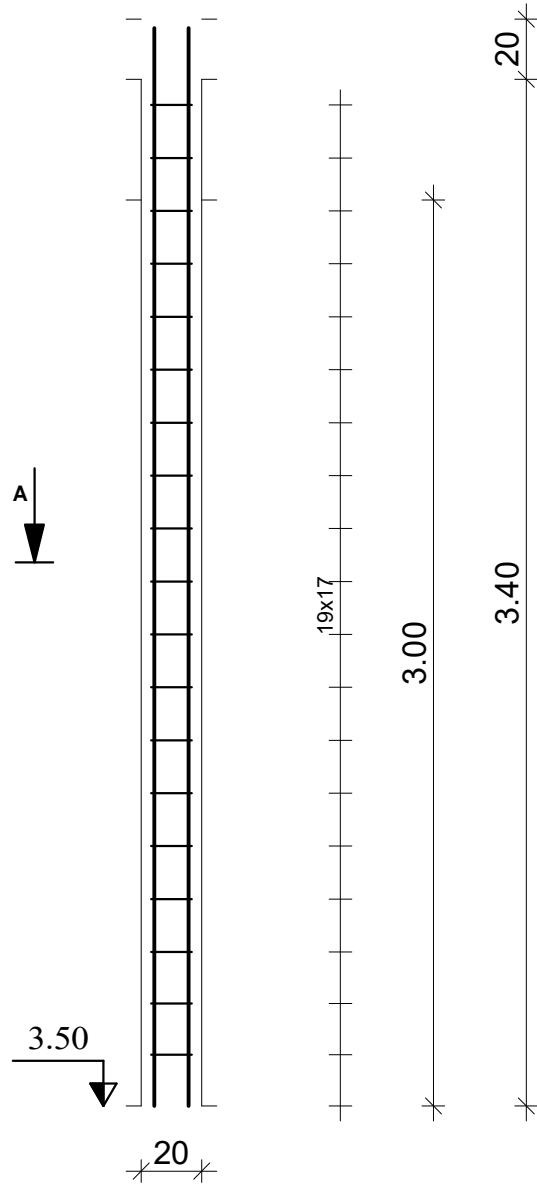
Tél.		Fax		Acier HA 400 = 76.4 kg	
Tenue au feu 0h		Fissuration peu préjudiciable		Reprise de bétonnage : Non	
		LO : P1 Section 20x35		Béton : BETON20 = 0.471 m ³ Acier RL 235 = 17.5 kg	
				Surface du coffrage = 6.11 m ² Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm	
		Nombre 1		Densité = 199.2 kg/ m ³ Echelle pour la vue 1/50 Diamètre moyen = 9mm Echelle pour la section 1/10	
				Page 96/96	

POTEAUX

ETAGE COURANT

MINHDU Haut-Nyong_Poteaux

Pos.	Armature	Code	Forme
①	4HA 12 l=3.57	00	3.57
②	19RL 6 l=68	31	



Tél.

Echelle pour la vue 1:25

P1

Enrobage 3 cm

Béton : BETON20 = 0.12 m3

Fax

Echelle pour la section 1:10

Section 20x20

Page 1/1

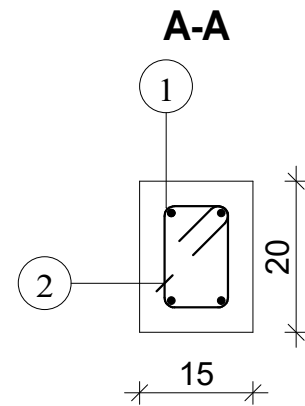
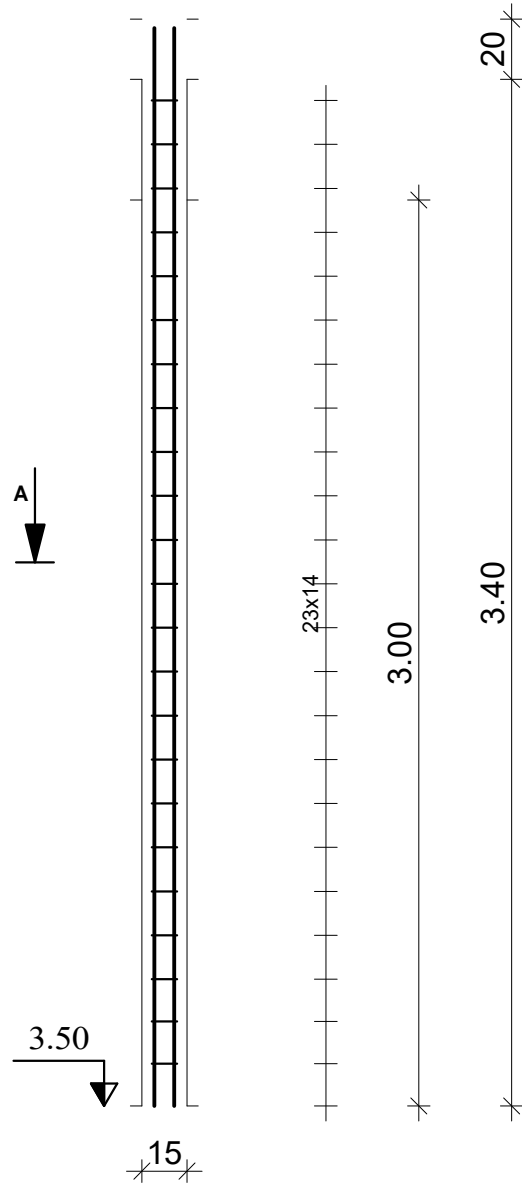
Acier HA 400 = 12.7 kg

Acier RL 235 = 2.84 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poteaux

Pos.	Armature	Code	Forme
①	4HA 10 l=3.57	00	3.57
②	23RL 6 l=58	31	



Tél.

Echelle pour la vue 1:25

P2

Enrobage 3 cm

Béton : BETON20 = 0.09 m3

Fax

Echelle pour la section 1:10

Section 15x20

Page 1/1

Acier HA 400 = 8.8 kg

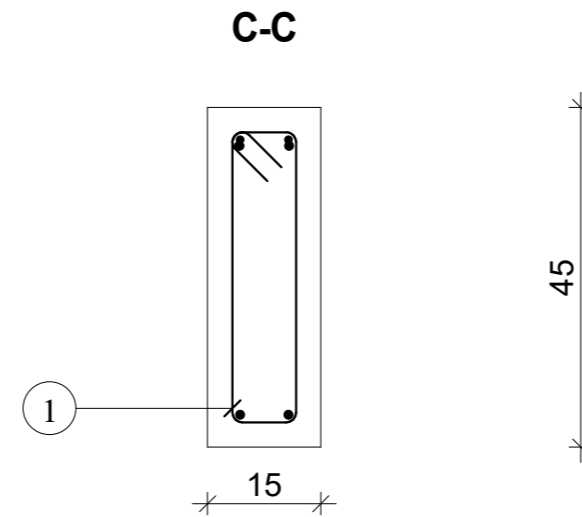
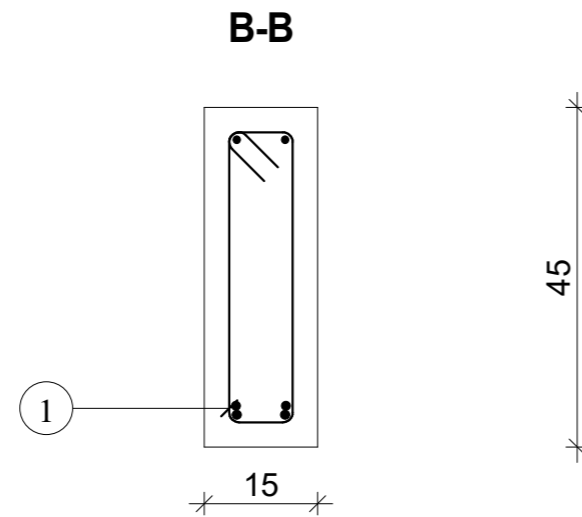
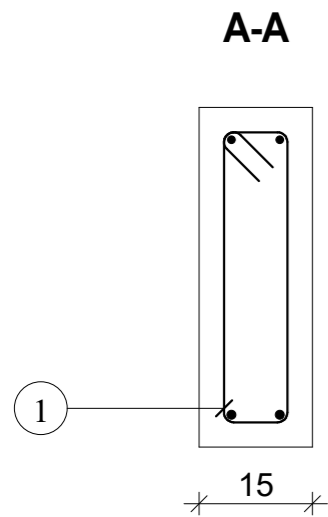
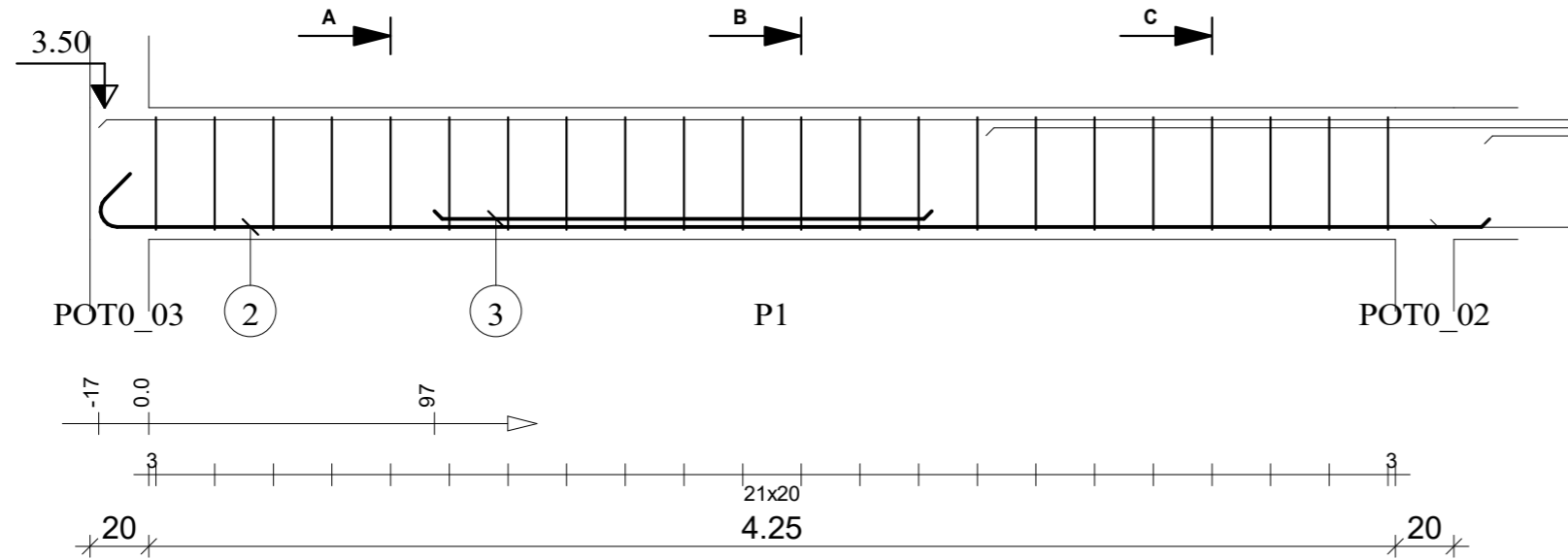
Acier RL 235 = 2.93 kg

POUTRES

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature		Code	Forme
①	22RL 6	l=1.08	31	
②	2HA 12	l=4.93	00	
③	2HA 12	l=1.70	00	



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

Ptr 1(15x45): P1

Section 15x45

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/3


Béton : BETON20 = 0.307 m³

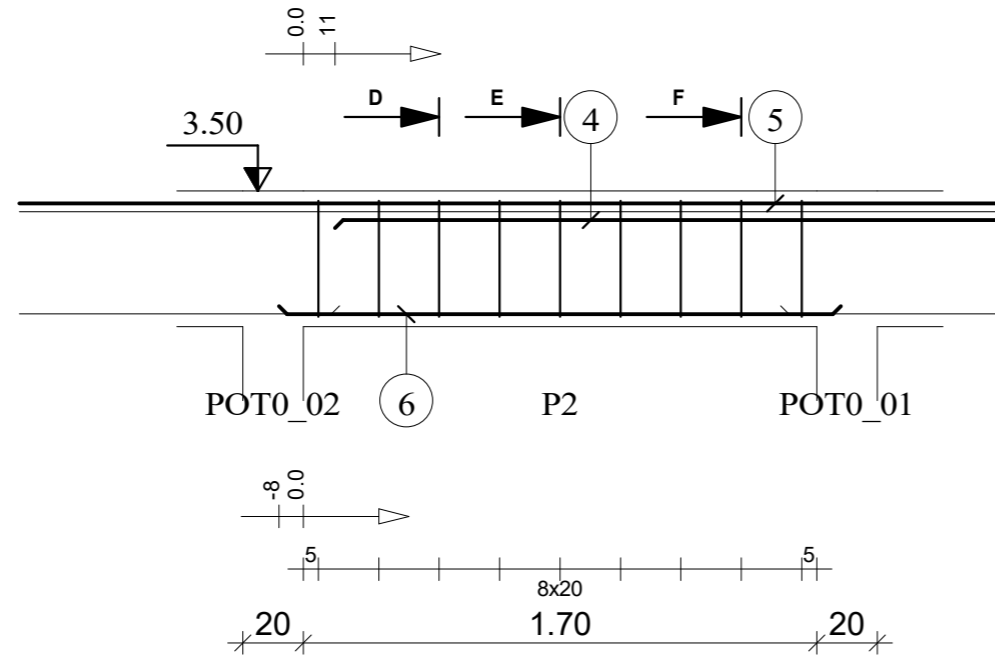
Acier RL 235 = 5.25 kg

Acier HA 400 = 11.8 kg

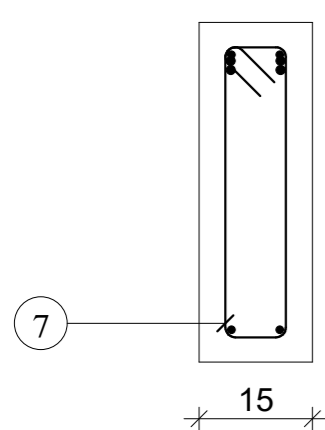
ETAGE COURANT

MINHDU Haut-Nyong_Poutres

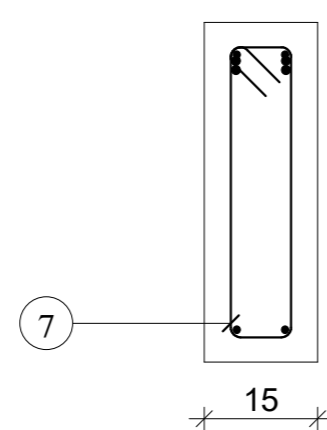
Pos.	Armature	Code	Forme	
④	2HA 12	l=2.79	00	2.79
⑤	2HA 8	l=11.79	00	11.79
⑥	2HA 8	l=1.86	00	1.86
⑦	9RL 6	l=1.07*	31	



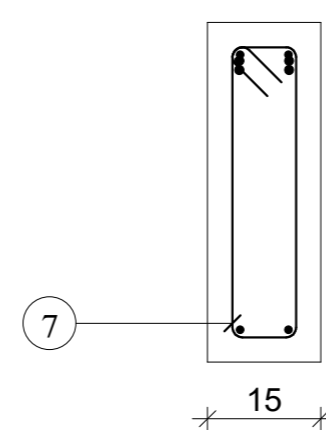
D-D



E-E



F-F



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

Ptr 1(15x45): P2

Section 15x45

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/3

Béton : BETON20 = 0.128 m³

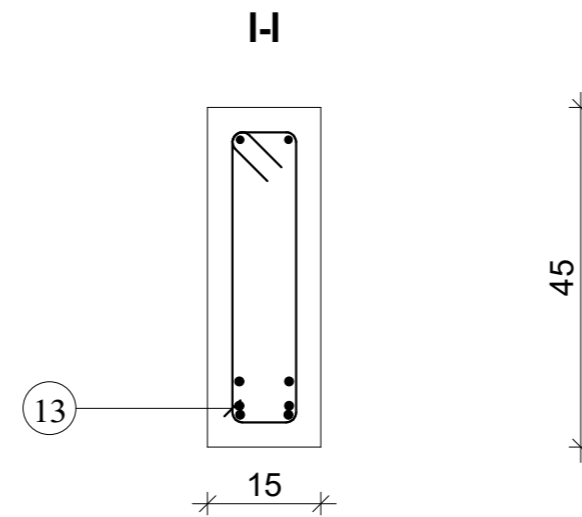
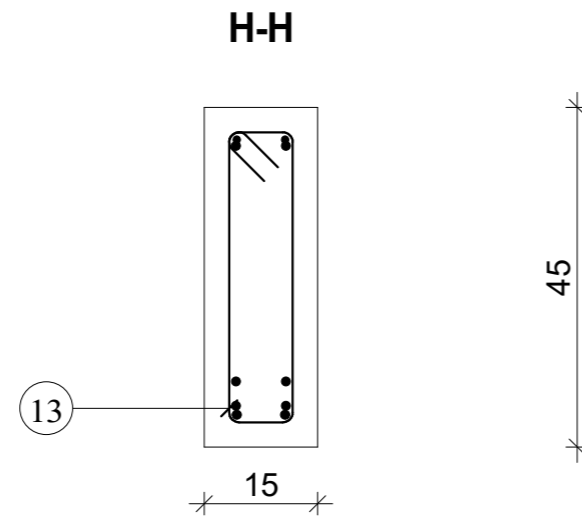
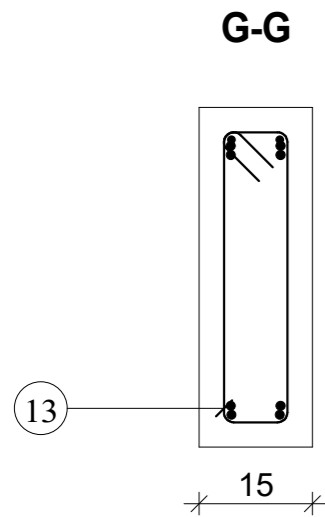
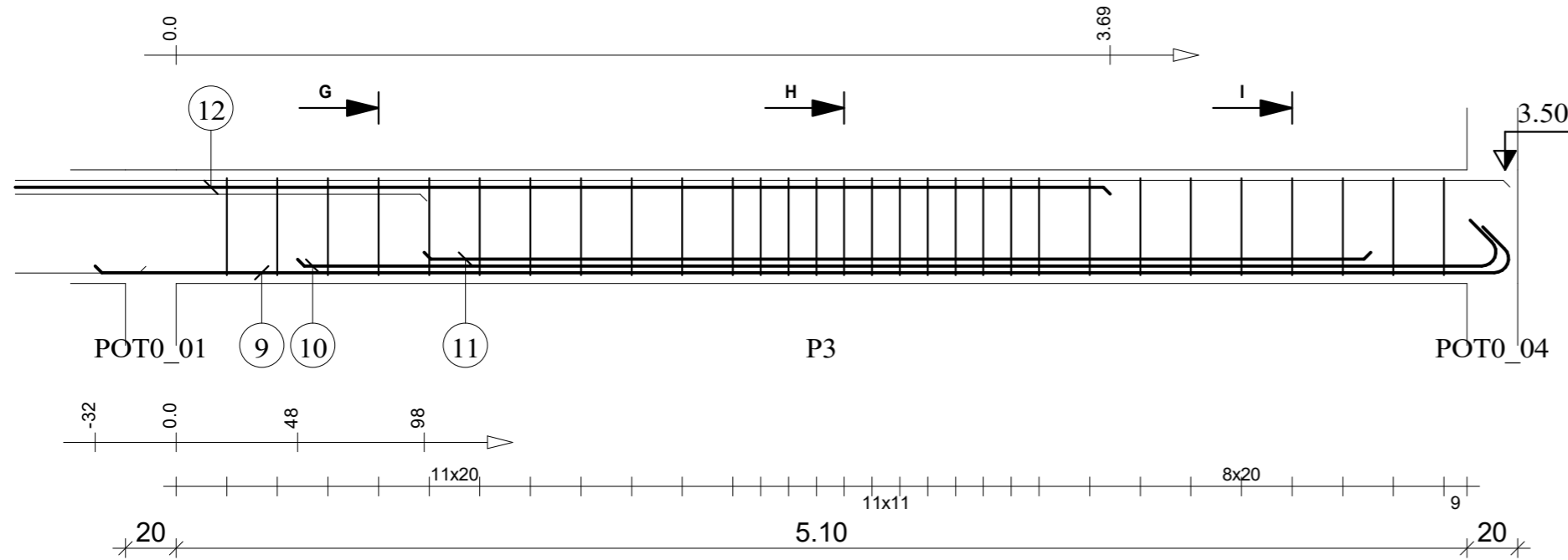
Acier RL 235 = 2.13 kg

Acier HA 400 = 15.7 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature	Code	Forme
9	2HA 12	l=5.78	5.59
10	2HA 12	l=4.93	4.74
11	2HA 12	l=3.74	3.74
12	2HA 12	l=7.19	7.19
13	30RL 6	l=1.08	31



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

Ptr 1(15x45): P3

Section 15x45

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/3

Béton : BETON20 = 0.365 m3

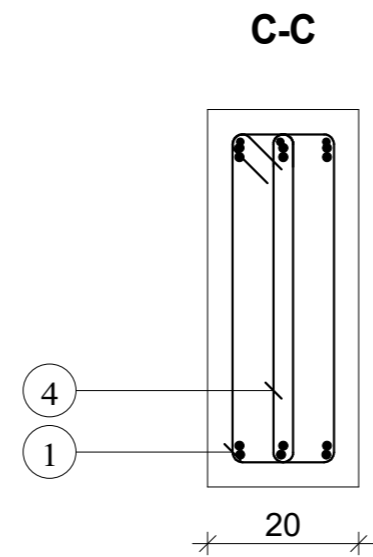
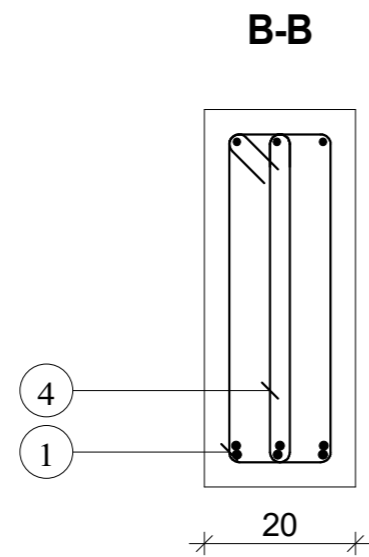
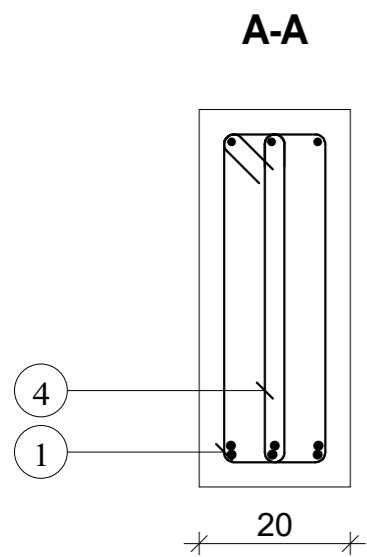
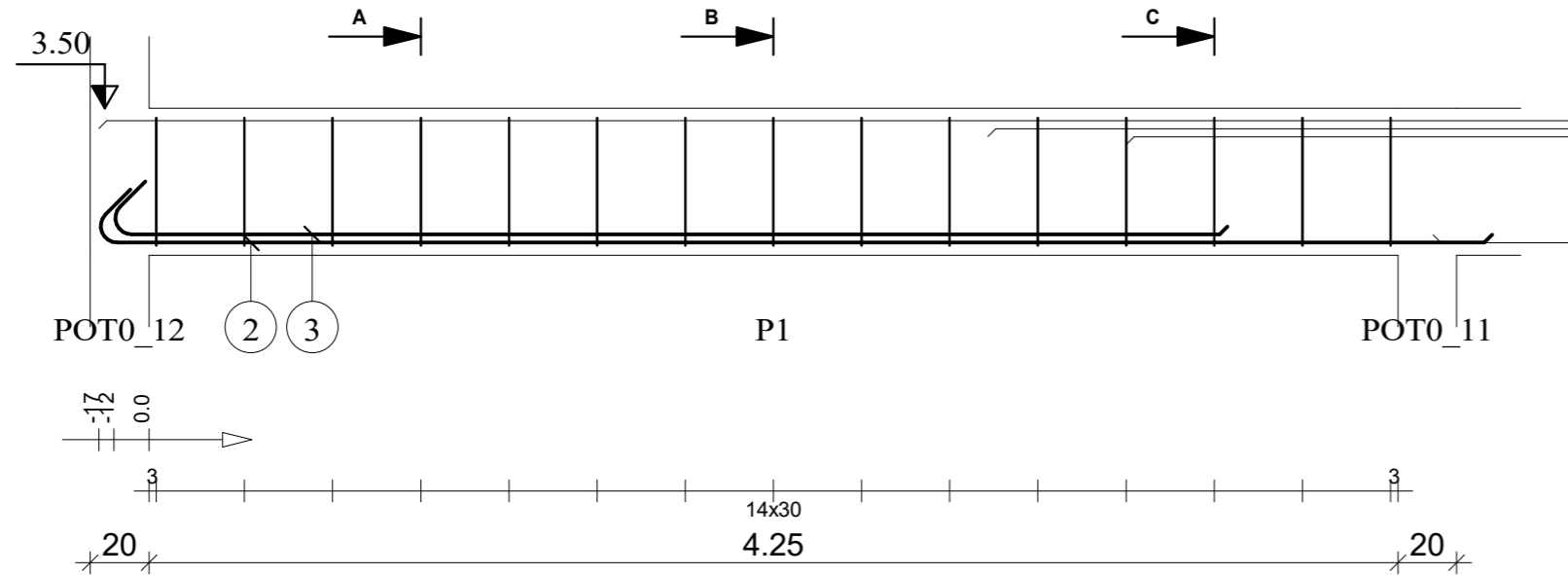
Acier RL 235 = 7.15 kg

Acier HA 400 = 38.4 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature		Code	Forme
①	15RL 6	l=1.28	31	
②	3HA 12	l=4.93	00	
③	3HA 12	l=3.98	00	
④	15RL 6	l=100		



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

Ptr 3(20x50): P1

Section 20x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/3

Béton : BETON20 = 0.455 m³

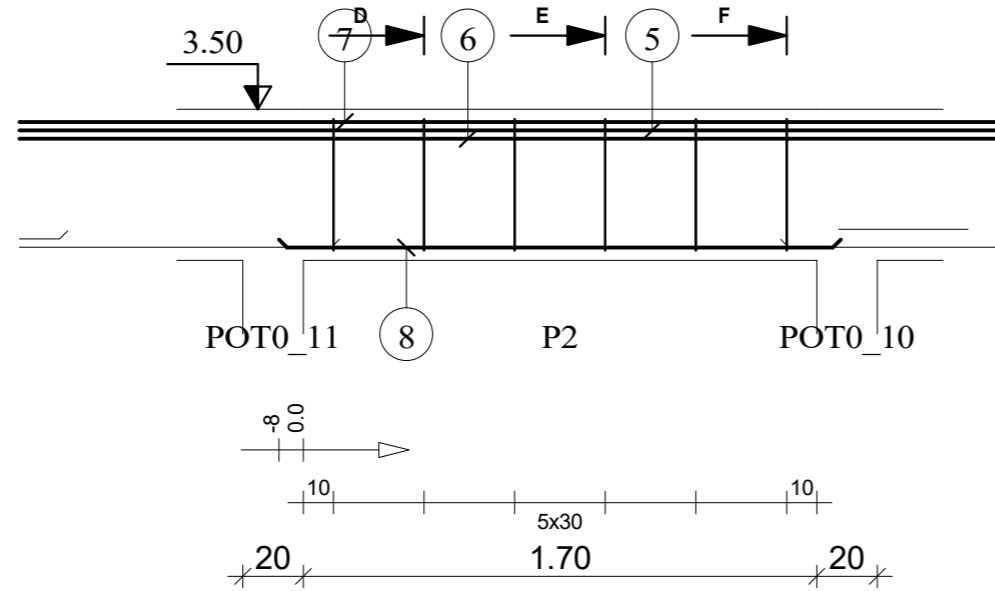
Acier RL 235 = 7.57 kg

Acier HA 400 = 23.7 kg

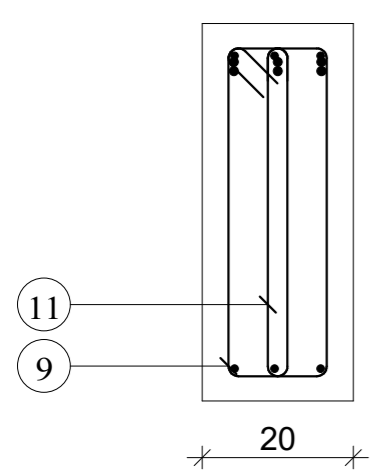
ETAGE COURANT

MINHDU Haut-Nyong_Poutres

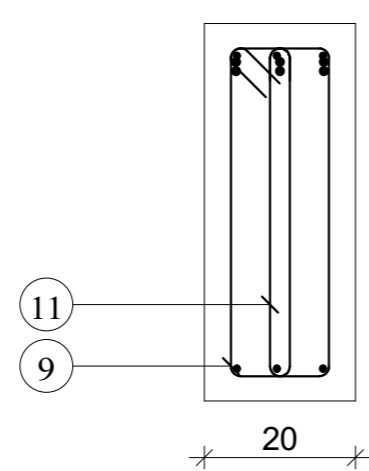
Pos.	Armature	Code	Forme	
5	3HA 12	l=5.15	00	5.15
6	3HA 12	l=3.98	00	3.97
7	3HA 8	l=11.79	00	11.79
8	3HA 8	l=1.86	00	1.86
9	6RL 6	l=1.27*	31	
11	6RL 6	l=100		



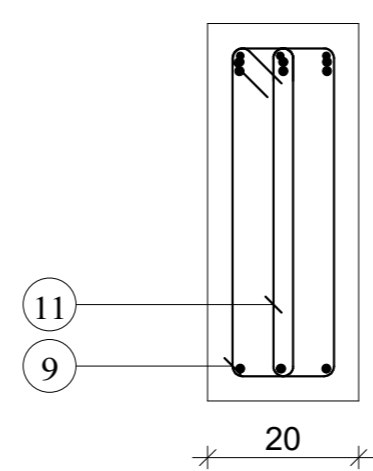
D-D



E-E



F-F



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

Ptr 3(20x50): P2

Section 20x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/3

Béton : BETON20 = 0.19 m3

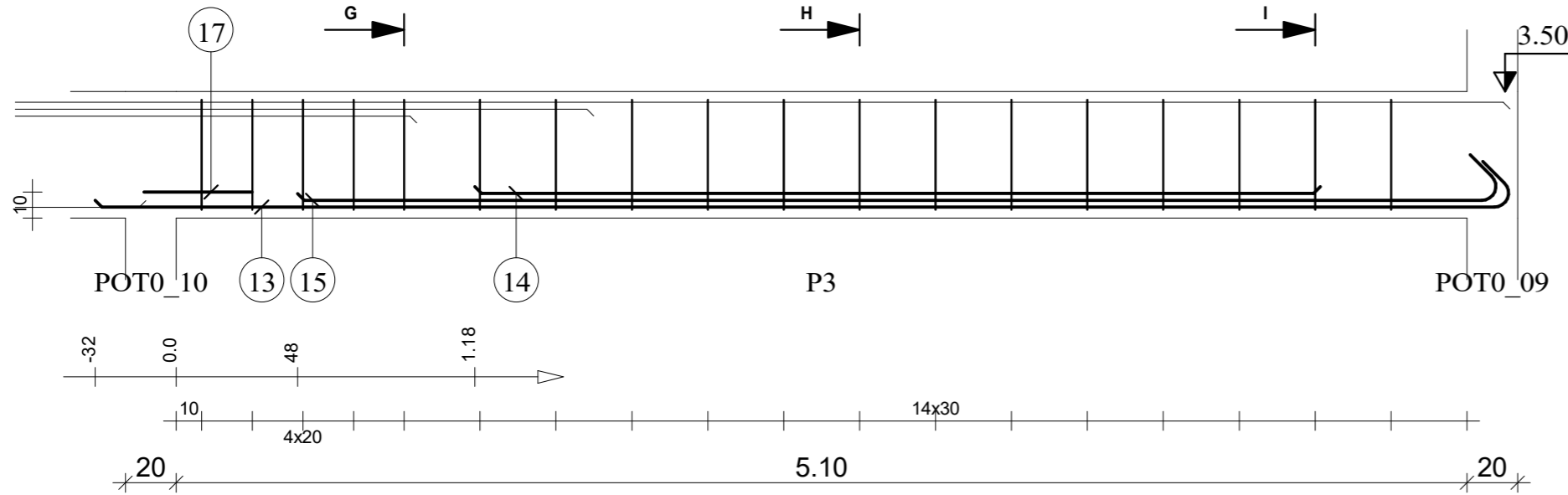
Acier RL 235 = 3.02 kg

Acier HA 400 = 40.5 kg

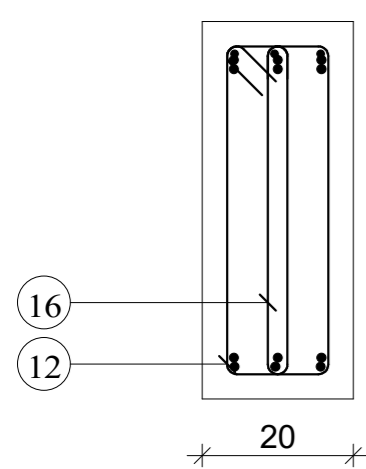
ETAGE COURANT

MINHDU Haut-Nyong_Poutres

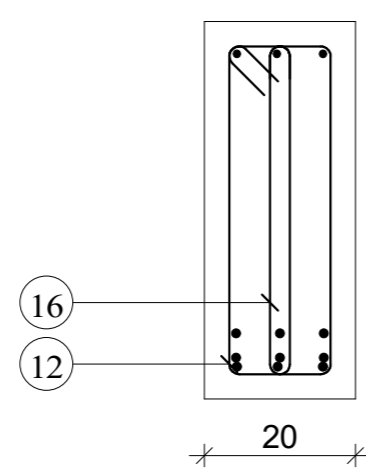
Pos.	Armature		Code	Forme
12	18RL 6	l=1.28	31	
13	3HA 12	l=5.78	00	
14	3HA 12	l=3.34	00	
15	3HA 12	l=4.93	00	
16	18RL 6	l=100		
17	1RL 6	l=97	21	



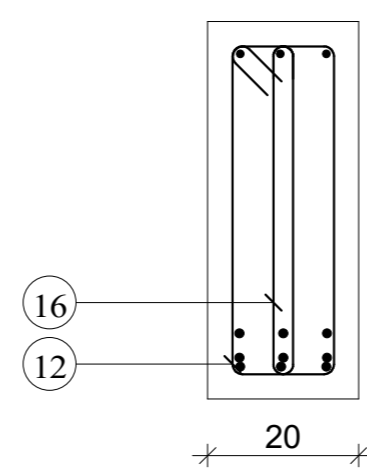
G-G



H-H



I-I



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

Ptr 3(20x50): P3

Section 20x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/3

Béton : BETON20 = 0.54 m3

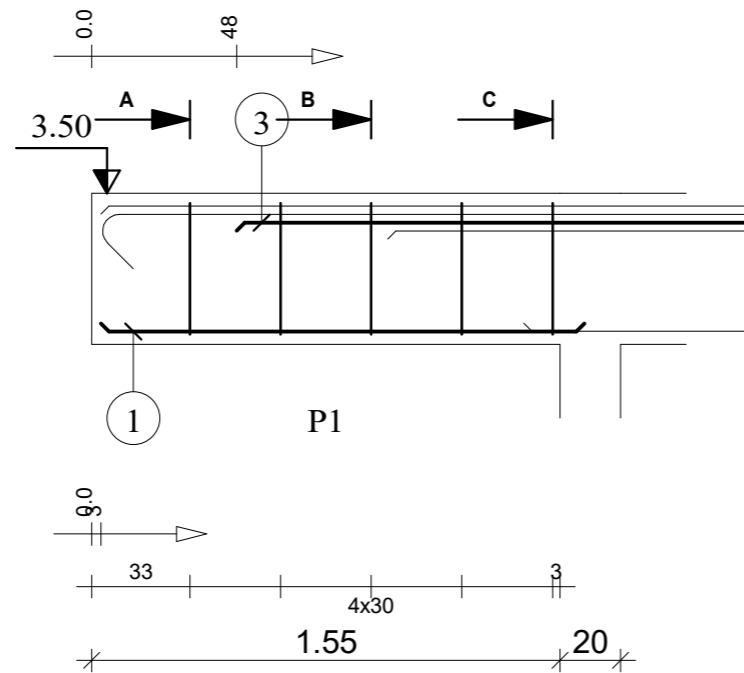
Acier RL 235 = 9.3 kg

Acier HA 400 = 37.4 kg

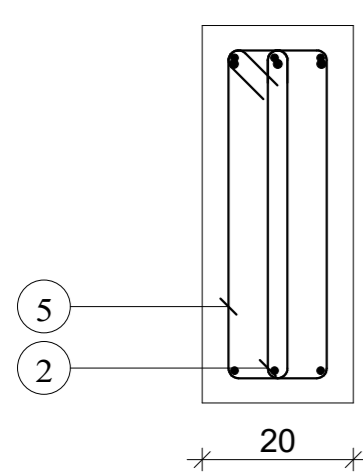
ETAGE COURANT

MINHDU Haut-Nyong_Poutres

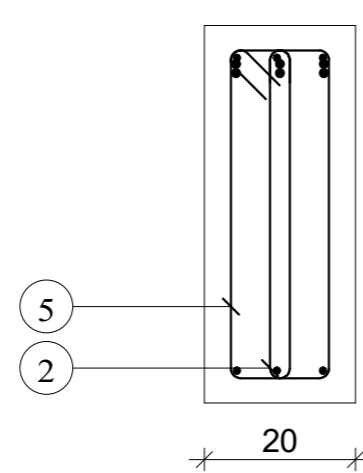
Pos.	Armature	Code	Forme
①	3HA 8	l=1.60	00 1.60
②	5RL 6	l=100	0.0 4 2
③	3HA 12	l=2.32	00 2.32
⑤	5RL 6	l=1.27*	14 8 4



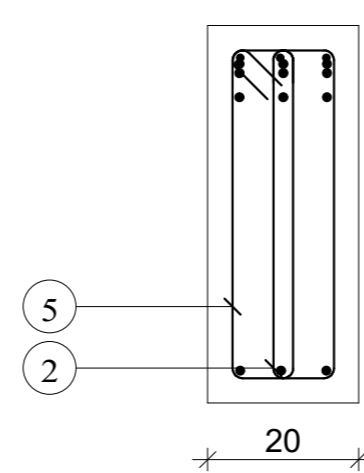
A-A



B-B



C-C



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

Ptr 4(20x50): P1

Section 20x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/5

Béton : BETON20 = 0.165 m³

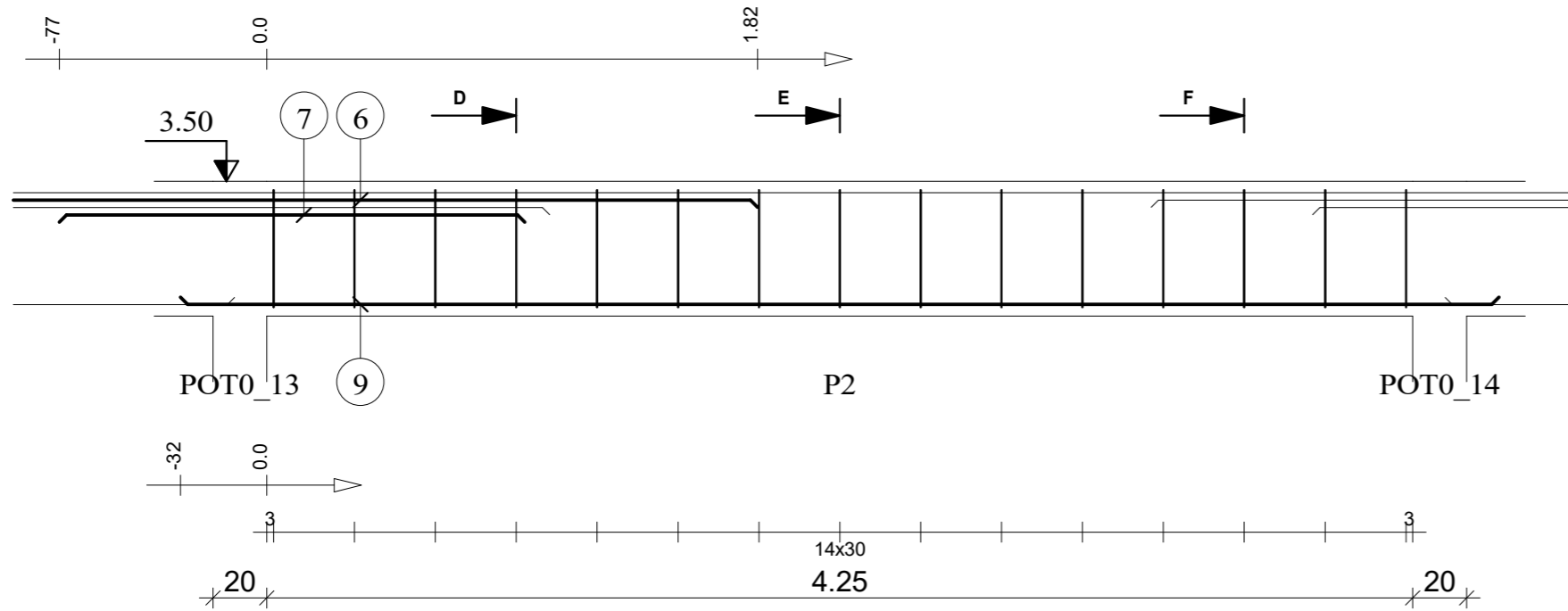
Acier RL 235 = 2.52 kg

Acier HA 400 = 8.07 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

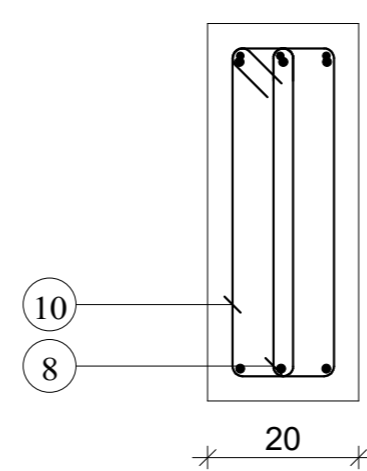
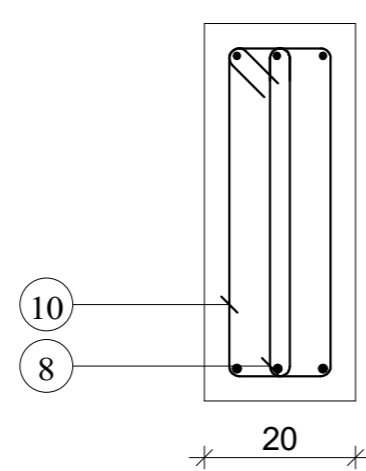
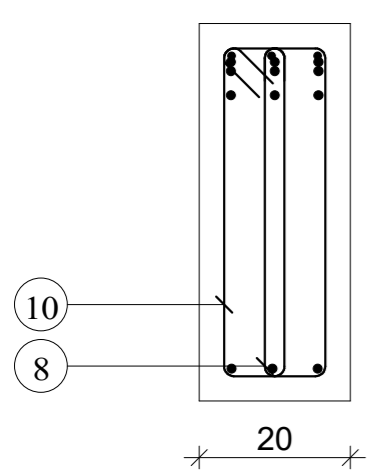
Pos.	Armature	Code	Forme
⑥	3HA 12	l=3.73	00
⑦	3HA 12	l=1.73	00
⑧	15RL 6	l=100	
⑨	3HA 12	l=4.89	00
⑩	15RL 6	l=1.28	31



D-D

E-E

F-F



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

Ptr 4(20x50): P2

Section 20x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/5

Béton : BETON20 = 0.445 m³

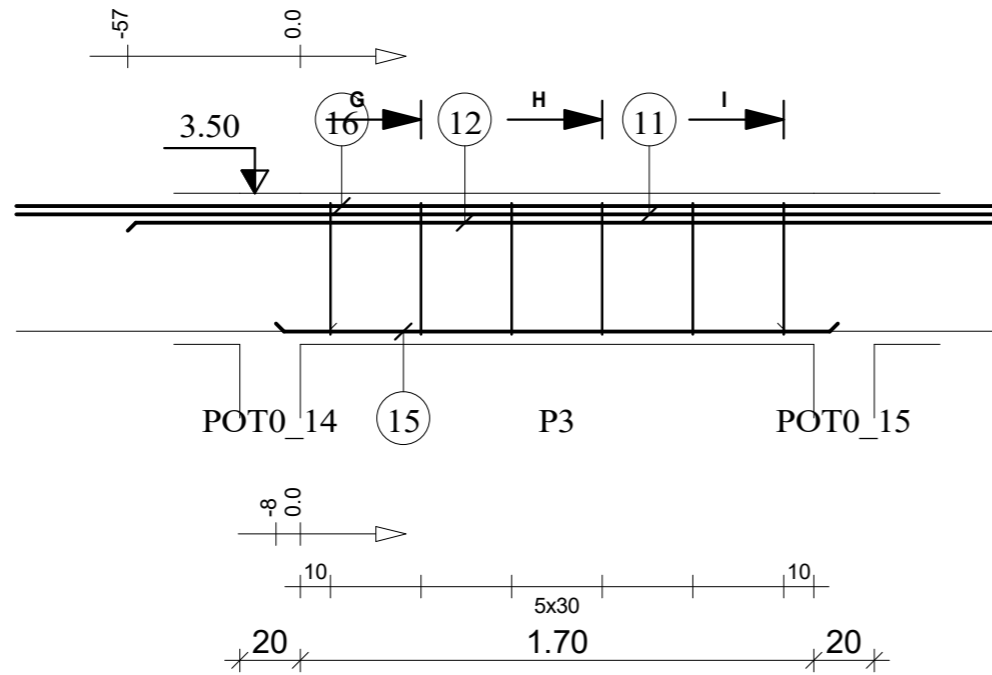
Acier RL 235 = 7.57 kg

Acier HA 400 = 27.6 kg

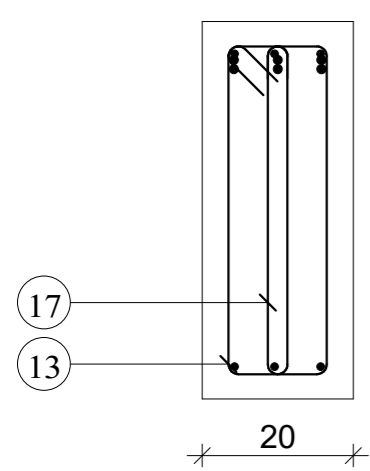
ETAGE COURANT

MINHDU Haut-Nyong_Poutres

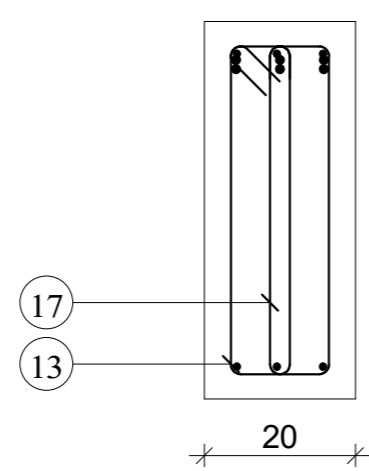
Pos.	Armature		Code	Forme
⑪	3HA 12	l=4.21	00	4.21
⑫	3HA 12	l=3.31	00	3.31
⑬	6RL 6	l=1.27*	31	
⑮	3HA 8	l=1.86	00	1.86
⑯	3HA 8	l=15.42	00	15.42
⑰	6RL 6	l=100		



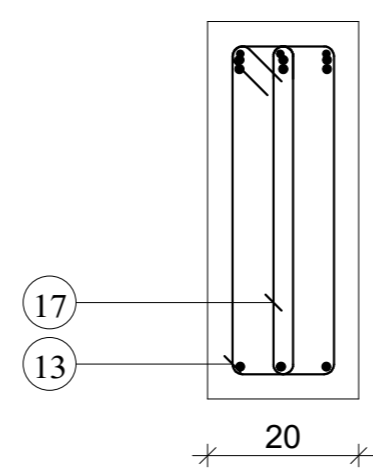
G-G



H-H



I-I



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

Ptr 4(20x50): P3

Section 20x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/5

Béton : BETON20 = 0.19 m3

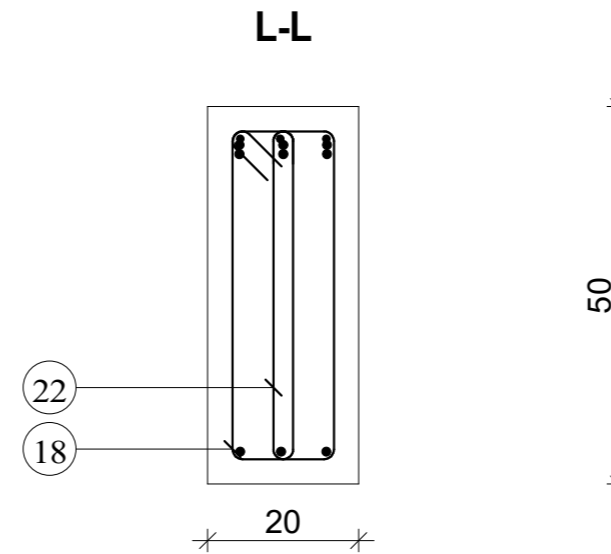
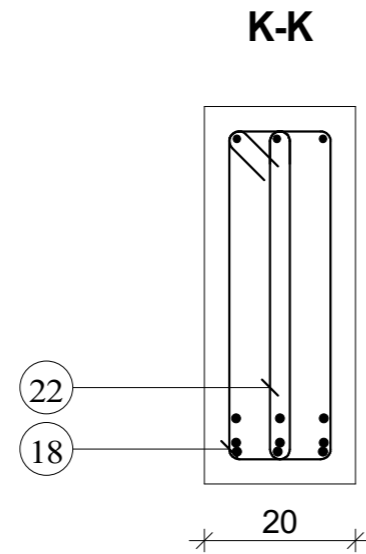
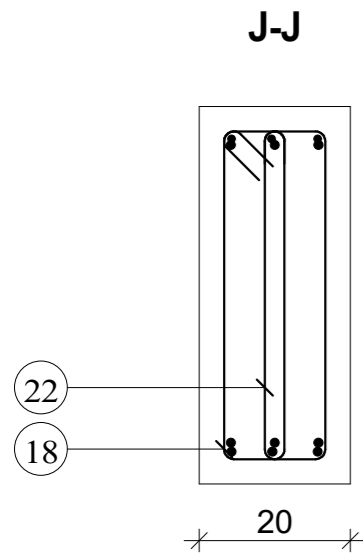
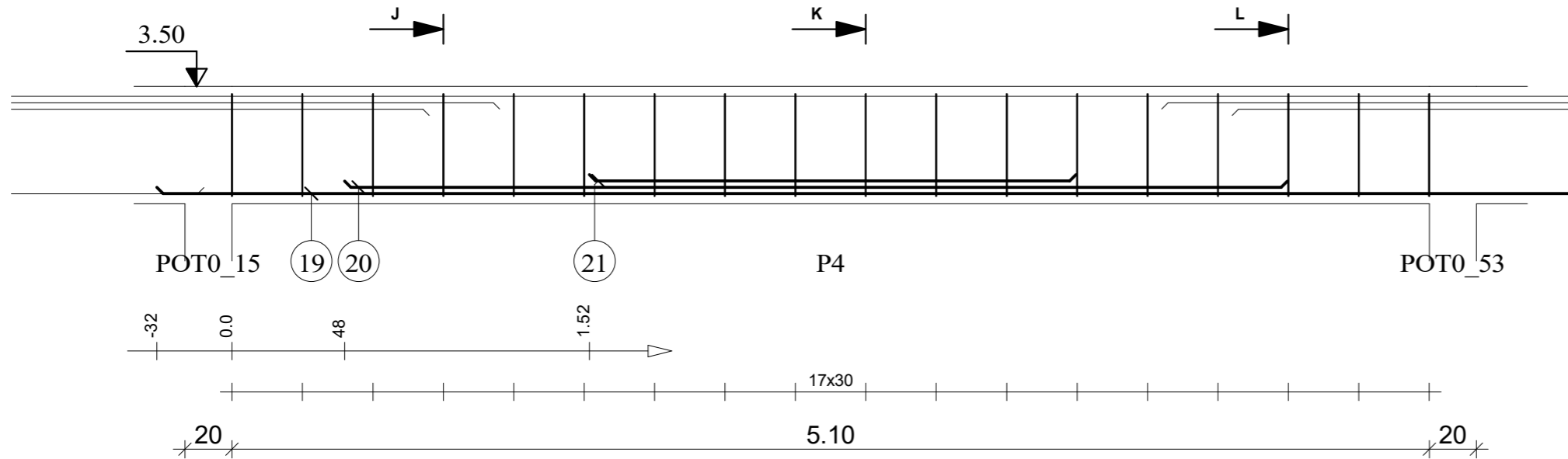
Acier RL 235 = 3.02 kg

Acier HA 400 = 40.5 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature	Code	Forme
18	18RL 6	l=1.28	31
19	3HA 12	l=7.63	00
20	3HA 12	l=4.02	00
21	3HA 12	l=2.07	00
22	18RL 6	l=100	



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

Ptr 4(20x50): P4

Section 20x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 4/5

Béton : BETON20 = 0.53 m3

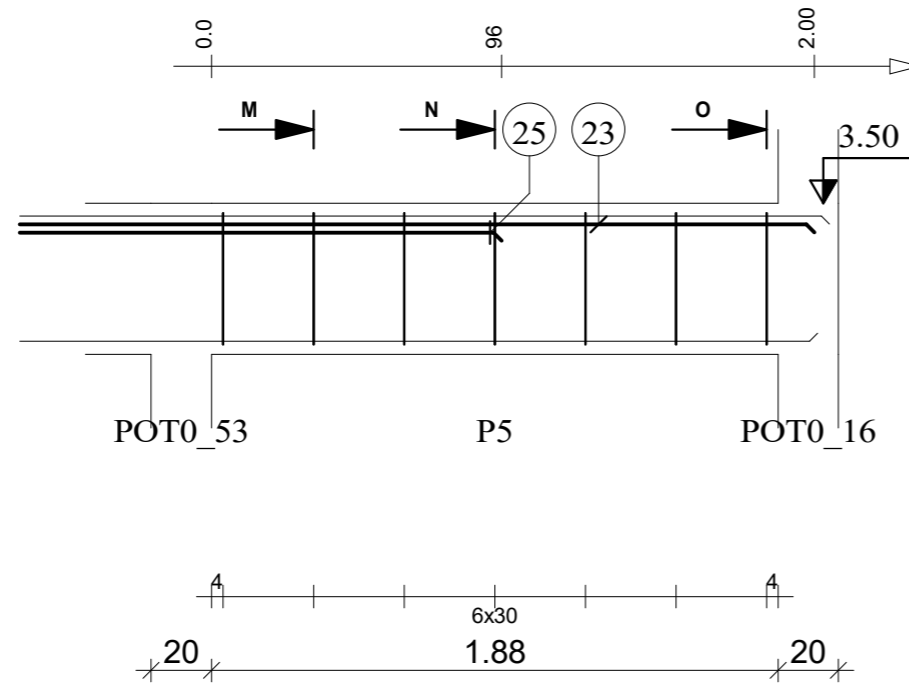
Acier RL 235 = 9.08 kg

Acier HA 400 = 36.5 kg

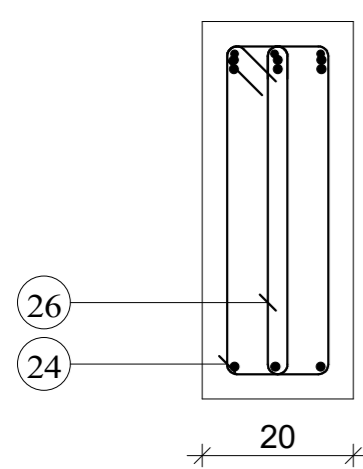
ETAGE COURANT

MINHDU Haut-Nyong_Poutres

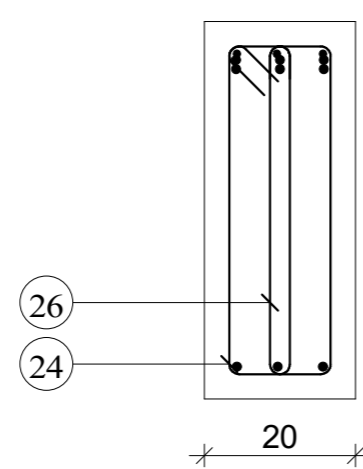
Pos.	Armature		Code	Forme
23	3HA 12	l=3.34	00	
24	7RL 6	l=1.28	31	
25	3HA 12	l=2.00	00	
26	7RL 6	l=100		



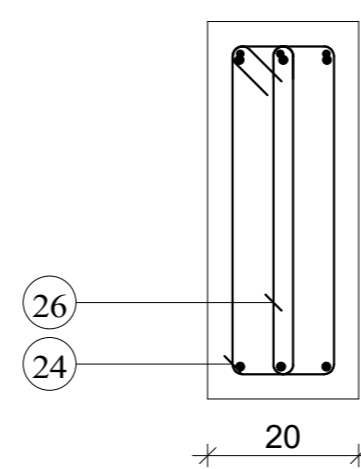
M-M



N-N



O-O



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

Ptr 4(20x50): P5

Section 20x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 5/5

Béton : BETON20 = 0.218 m³

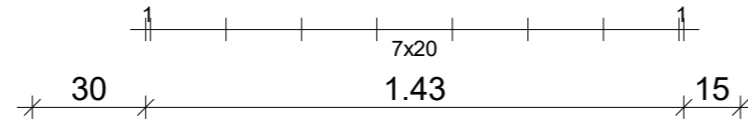
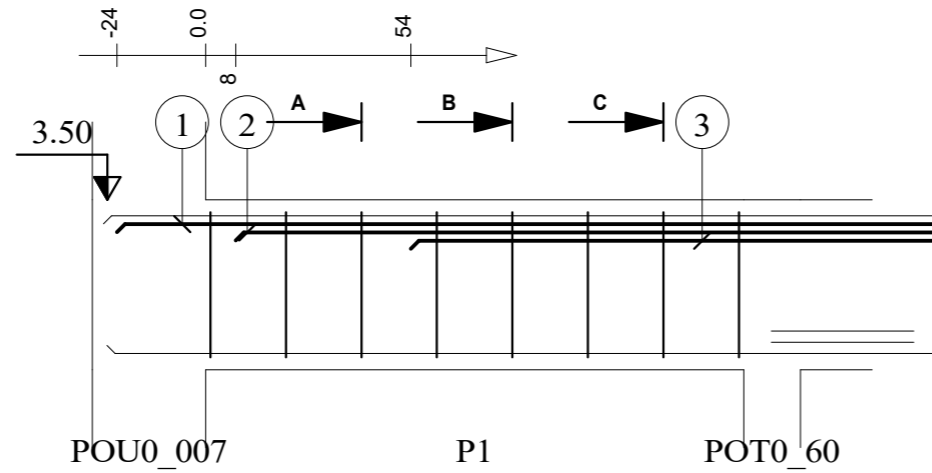
Acier RL 235 = 3.53 kg

Acier HA 400 = 14.2 kg

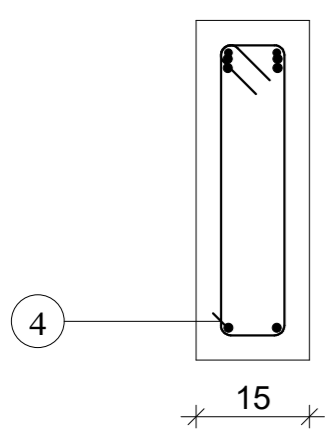
ETAGE COURANT

MINHDU Haut-Nyong_Poutres

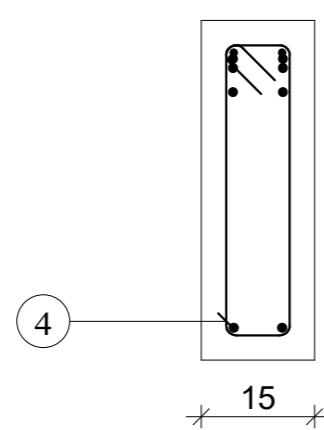
Pos.	Armature		Code	Forme
①	2HA 12	l=3.22	00	3.22
②	2HA 12	l=2.50	00	2.51
③	2HA 12	l=1.74	00	1.74
④	8RL 6	l=1.08	31	



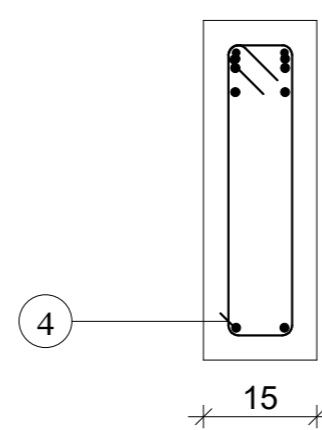
A-A



B-B



C-C



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

Ptr 5(15x45): P1

Section 15x45

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/5

Béton : BETON20 = 0.122 m3

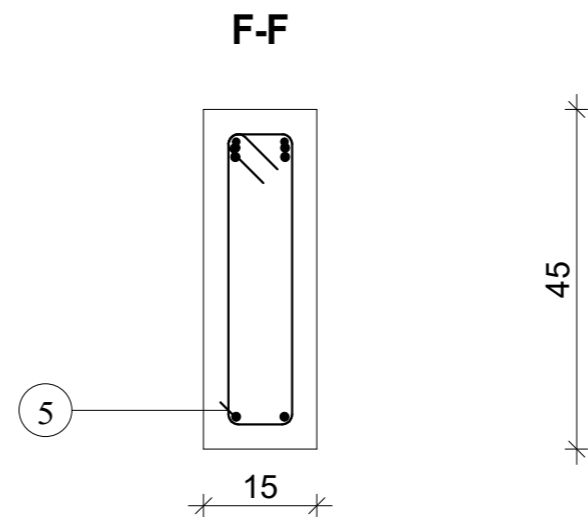
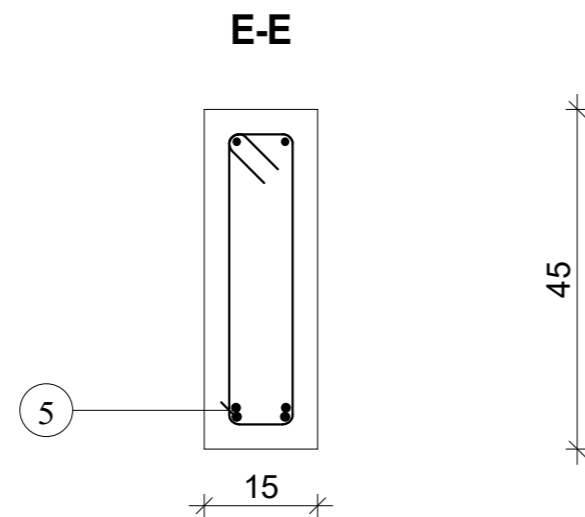
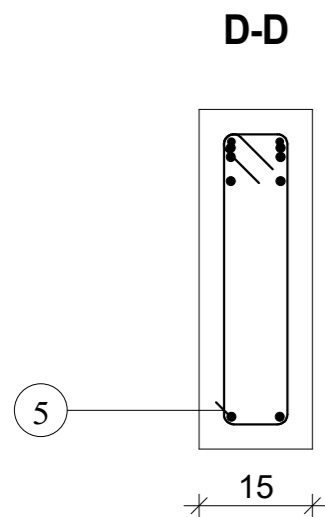
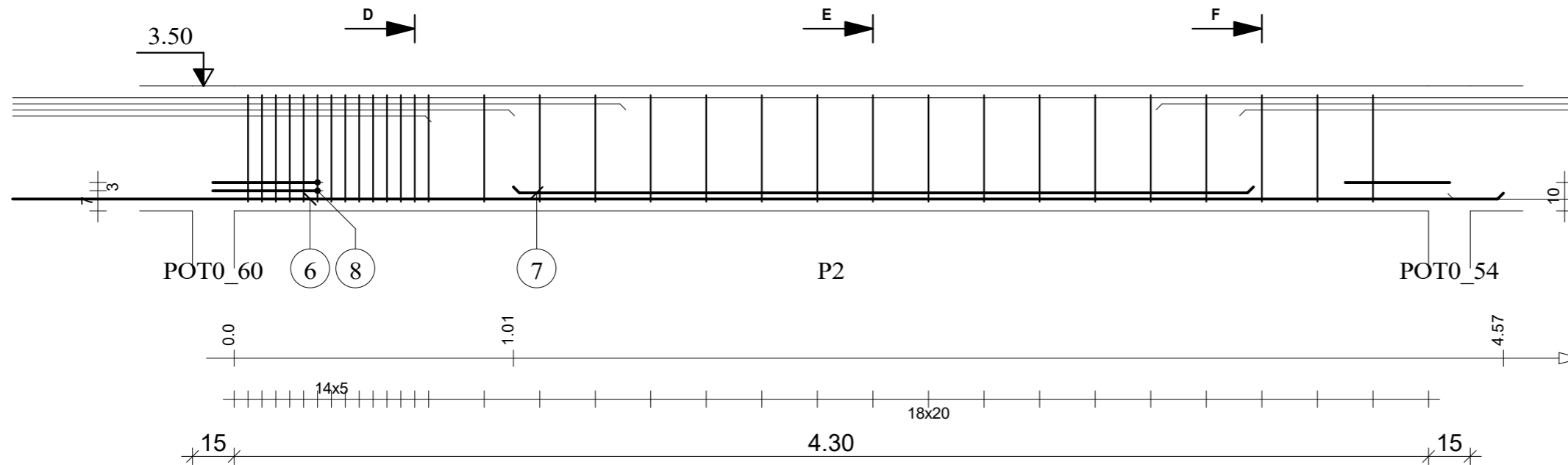
Acier RL 235 = 1.91 kg

Acier HA 400 = 13.3 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature	Code	Forme
5	31RL 6	l=1.08	31
6	2HA 12	l=6.41	00
7	2HA 12	l=2.67	00
8	3RL 6	l=82	21



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

Ptr 5(15x45): P2

Section 15x45

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/5


Béton : BETON20 = 0.3 m3

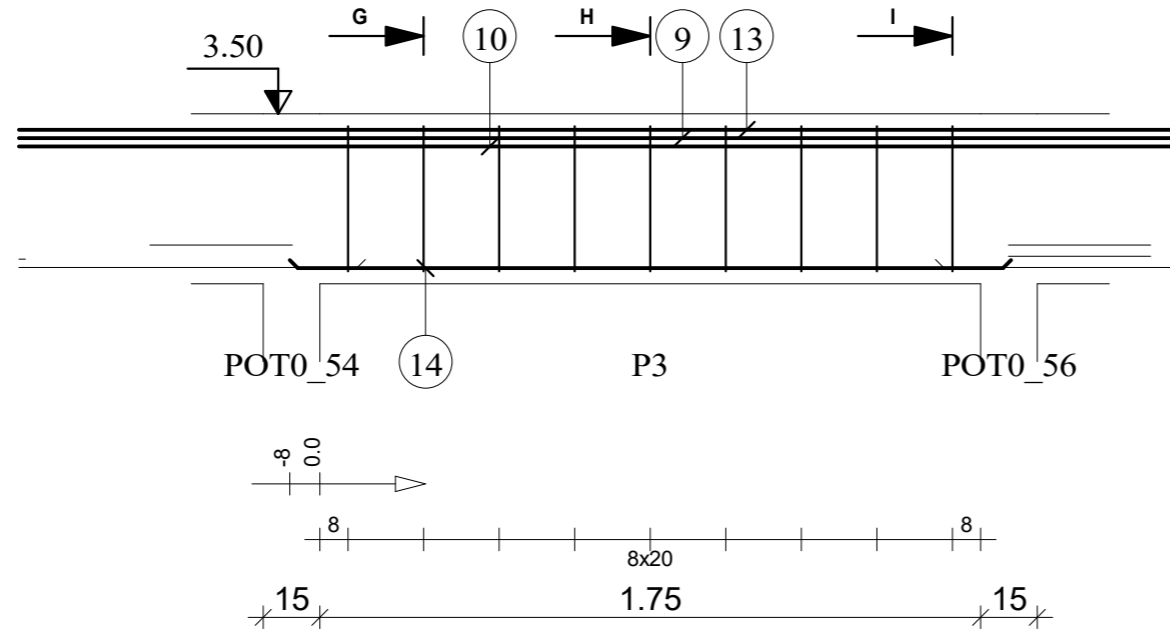
Acier RL 235 = 7.94 kg

Acier HA 400 = 16.1 kg

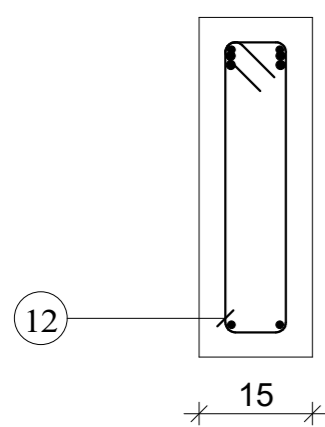
ETAGE COURANT

MINHDU Haut-Nyong_Poutres

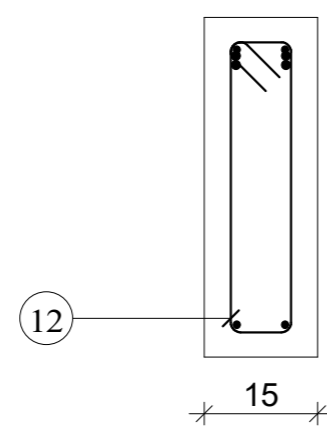
Pos.	Armature		Code	Forme
9	2HA 12	l=4.04	00	4.04
10	2HA 12	l=3.64	00	3.64
12	9RL 6	l=1.07*	31	
13	2HA 8	l=15.57	00	15.57
14	2HA 8	l=1.91	00	1.91



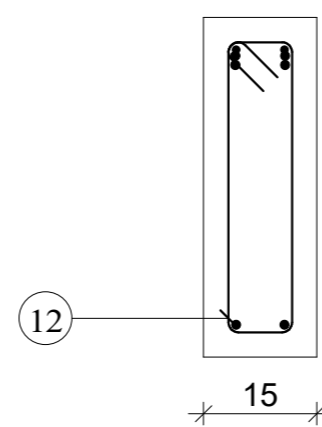
G-G



H-H



I-I



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

Ptr 5(15x45): P3

Section 15x45

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/5

Béton : BETON20 = 0.128 m3

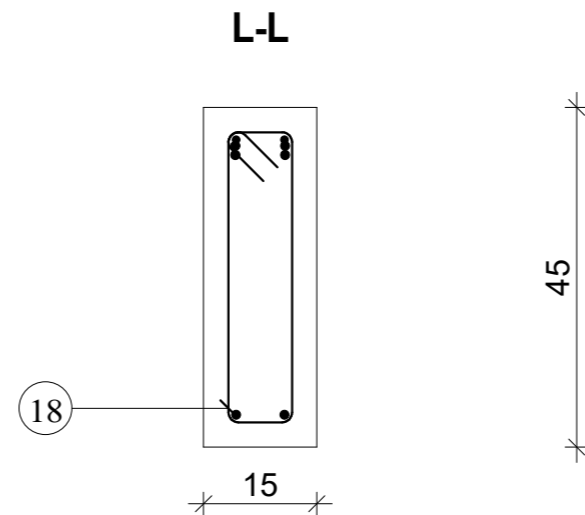
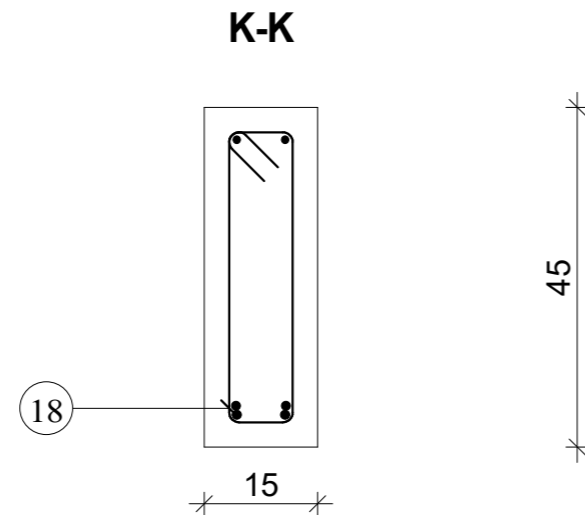
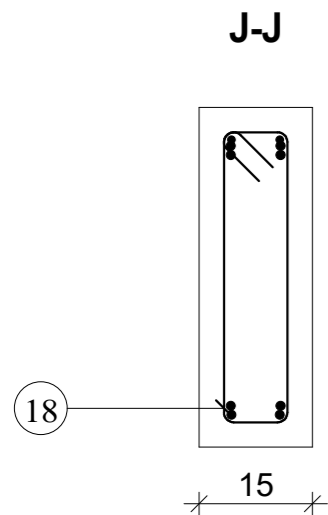
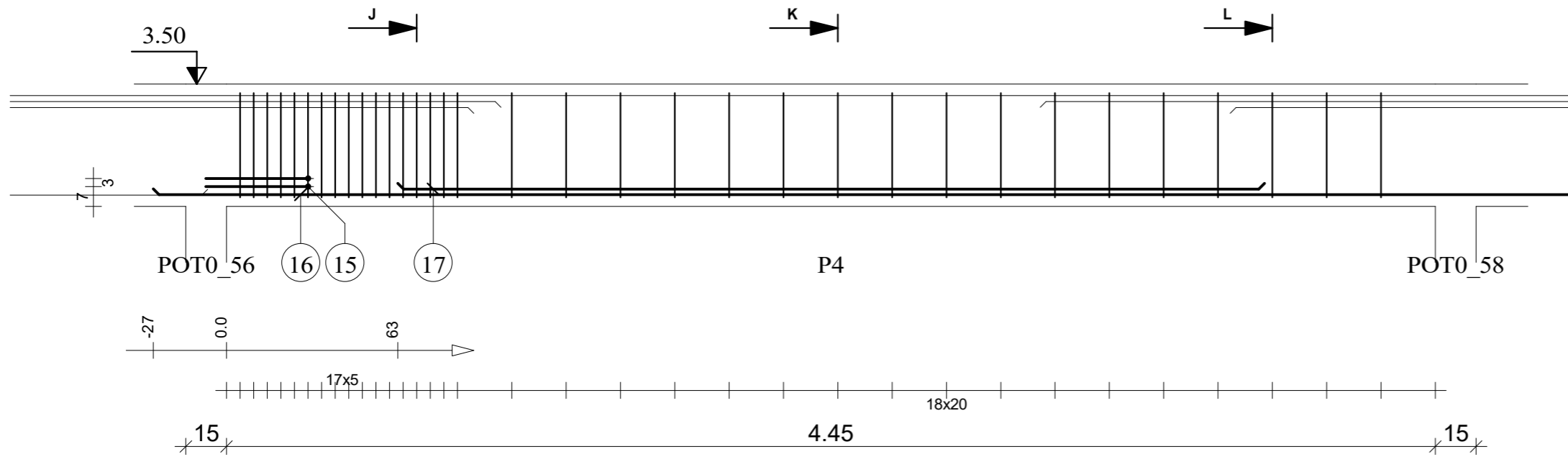
Acier RL 235 = 2.13 kg

Acier HA 400 = 27.4 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature	Code	Forme
15	2RL 6	l=82	21
16	2HA 12	l=7.83	00
17	2HA 12	l=3.19	00
18	34RL 6	l=1.08	31



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

Ptr 5(15x45): P4

Section 15x45

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 4/5

Béton : BETON20 = 0.311 m3

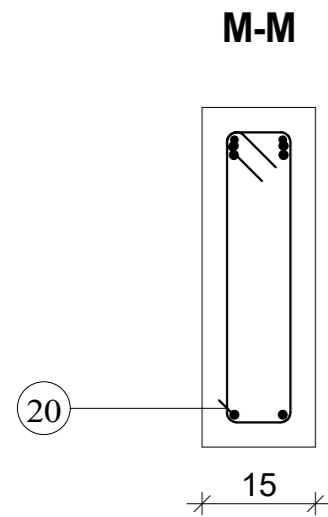
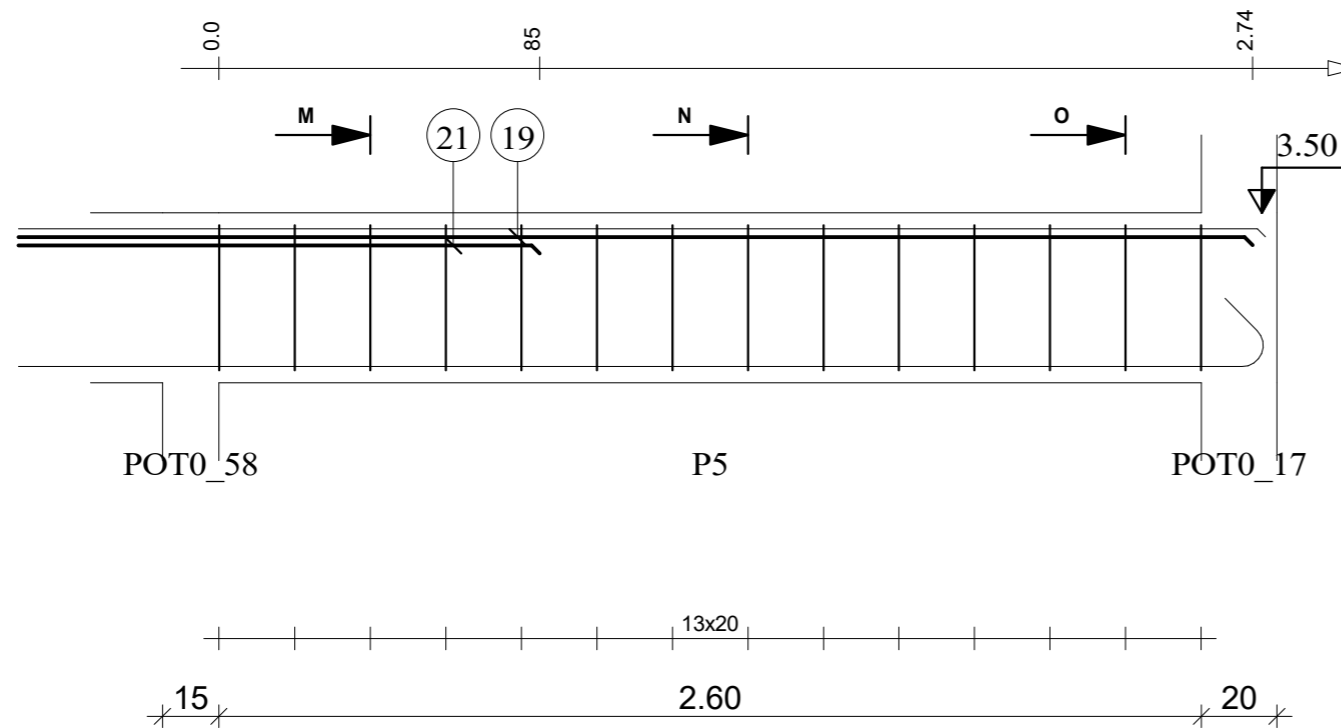
Acier RL 235 = 8.47 kg

Acier HA 400 = 19.6 kg

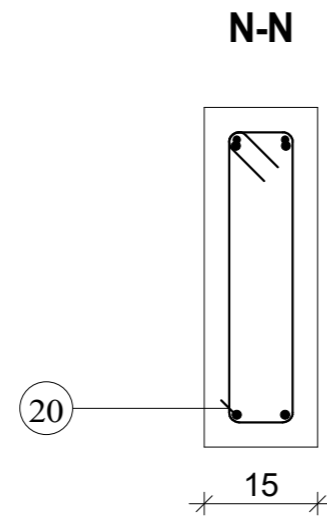
ETAGE COURANT

MINHDU Haut-Nyong_Poutres

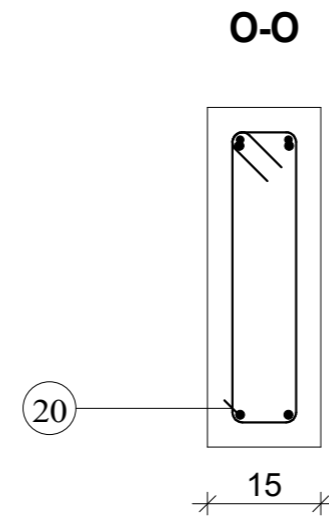
Pos.	Armature		Code	Forme
19	2HA 12	l=4.34	00	4.34
20	14RL 6	l=1.08	31	
21	2HA 12	l=1.75	00	1.75



45



45



45

Tél.
Fax

Echelle pour la vue 1:20
Echelle pour la section 1:10

Ptr 5(15x45): P5
Section 15x45

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

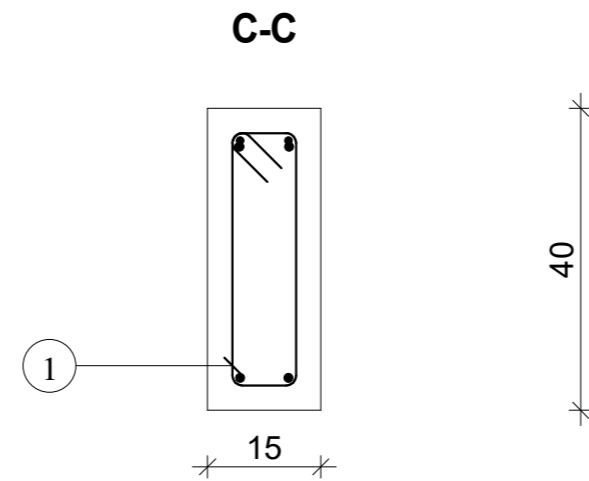
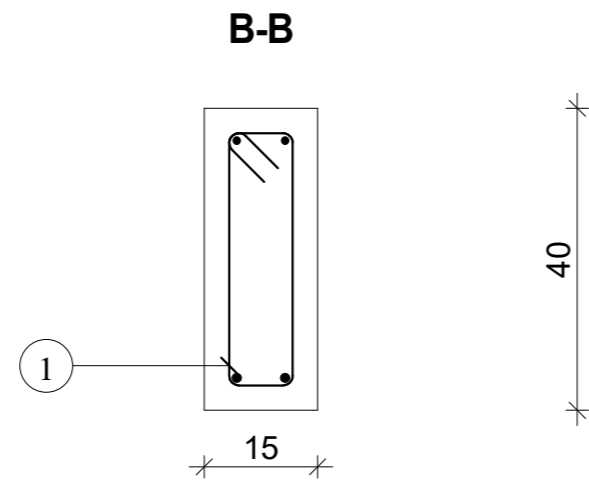
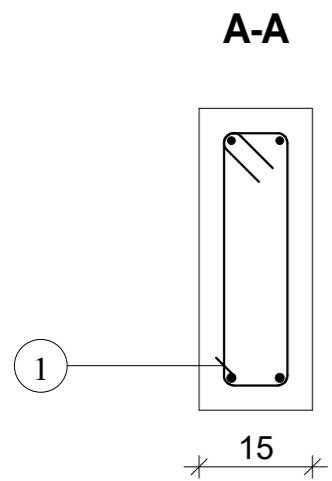
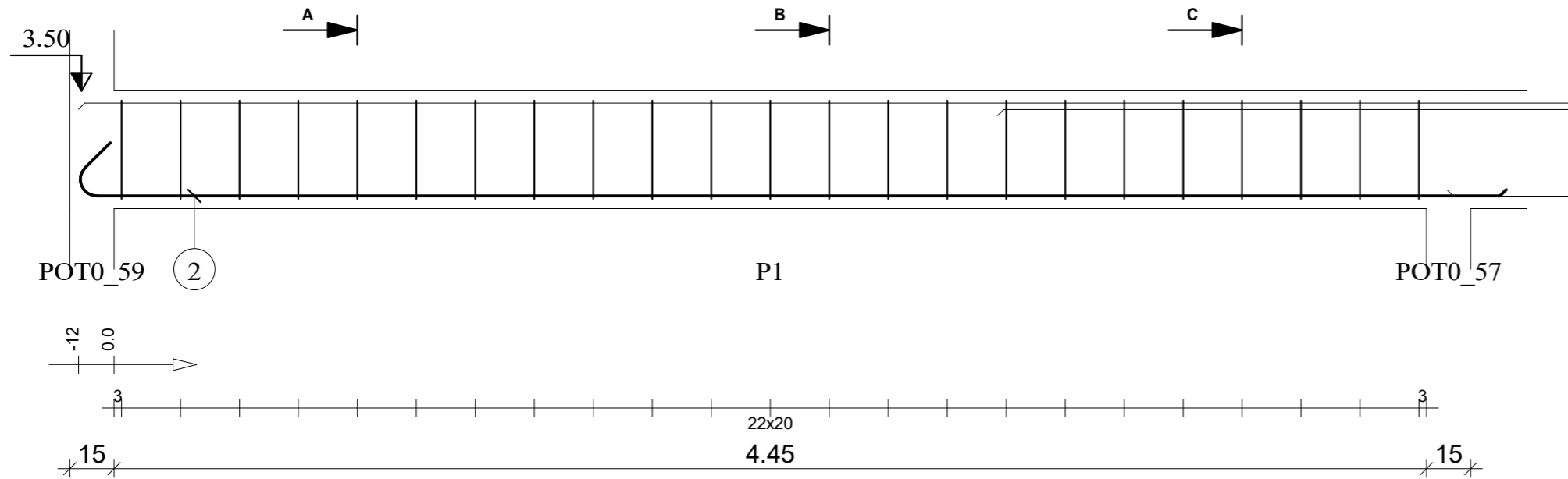
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Béton : BETON20 = 0.194 m³
Acier RL 235 = 3.34 kg
Acier HA 400 = 10.8 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature	Code	Forme
①	23RL 6	l=98	31
②	2HA 12	l=5.03	00



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

Ptr 6(15x40): P1

Section 15x40

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/4

Béton : BETON20 = 0.281 m3

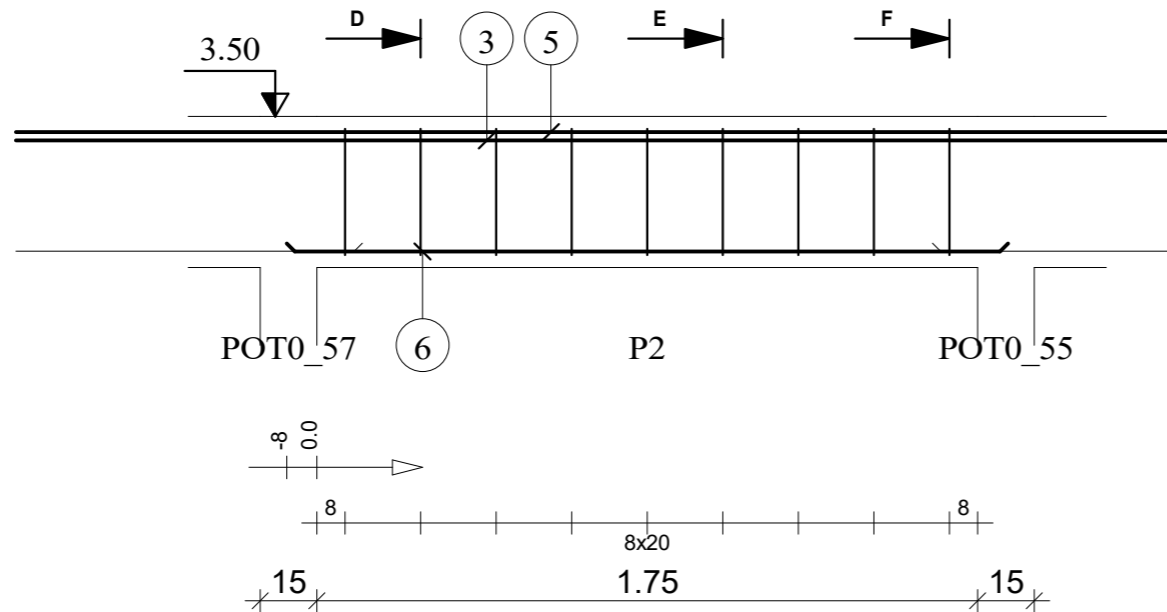
Acier RL 235 = 4.97 kg

Acier HA 400 = 8.93 kg

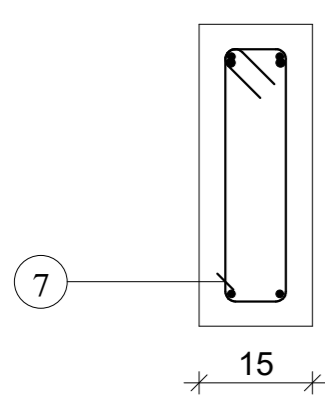
ETAGE COURANT

MINHDU Haut-Nyong_Poutres

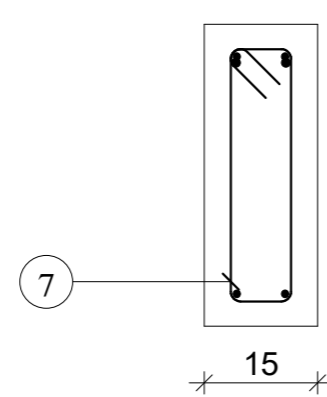
Pos.	Armature	Code	Forme
③	2HA 12 l=4.92	00	4.92
⑤	2HA 8 l=12.77	00	12.77
⑥	2HA 8 l=1.91	00	1.91
⑦	9RL 6 l=97*	31	



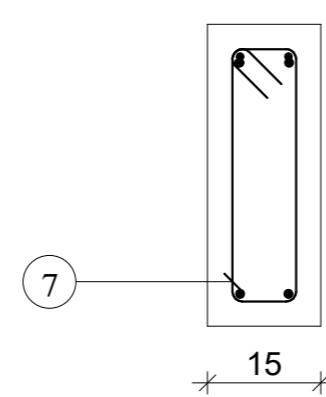
D-D



E-E



F-F



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

Ptr 6(15x40): P2

Section 15x40

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/4


Béton : BETON20 = 0.114 m3

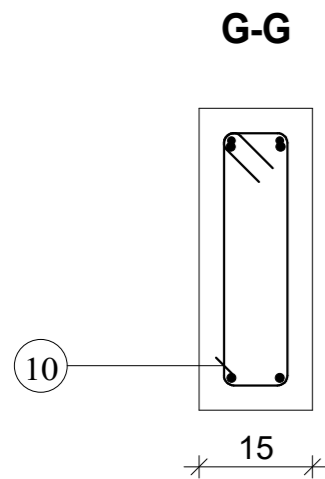
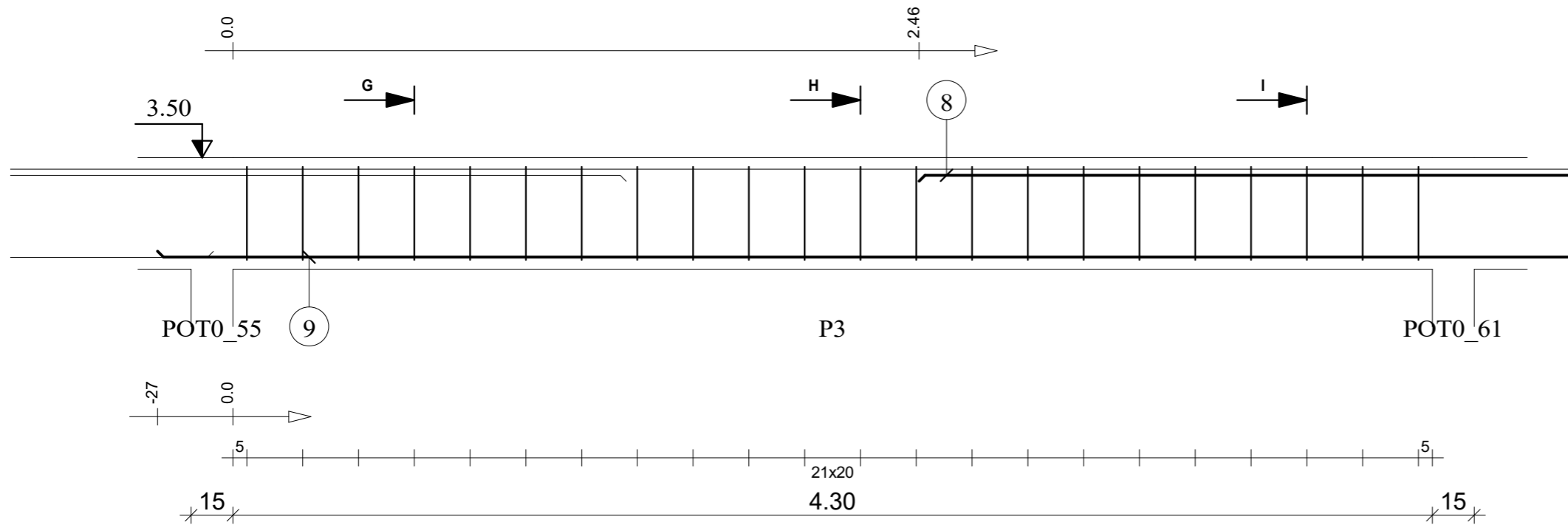
Acier RL 235 = 1.93 kg

Acier HA 400 = 20.3 kg

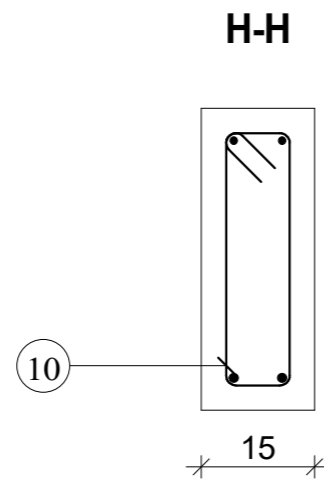
ETAGE COURANT

MINHDU Haut-Nyong_Poutres

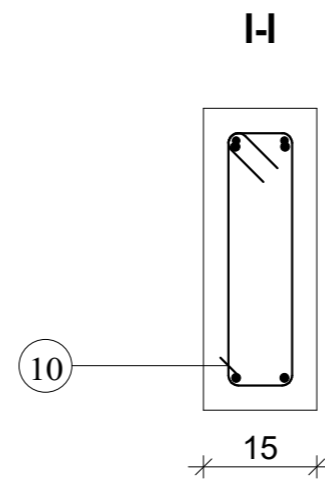
Pos.	Armature		Code	Forme
8	2HA 12	l=3.61	00	3.61
9	2HA 12	l=6.42	00	6.42
10	22RL 6	l=98	31	



40



40



40

Tél.
Fax

Echelle pour la vue 1:20
Echelle pour la section 1:10

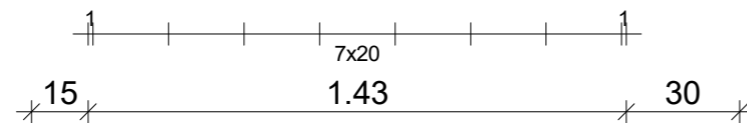
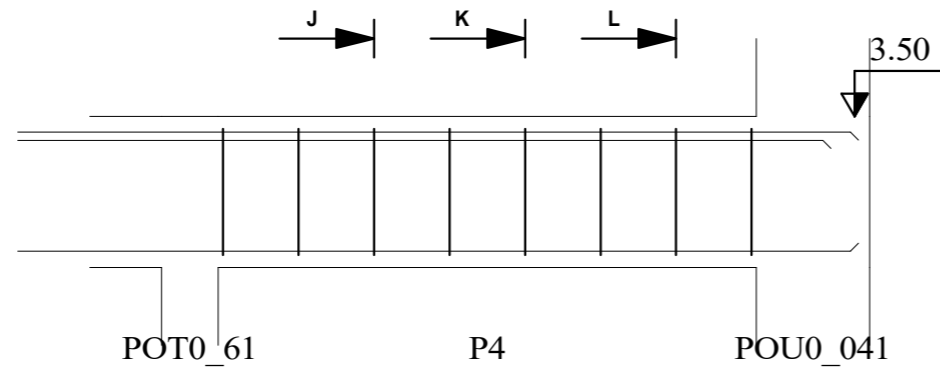
Ptr 6(15x40): P3
Section 15x40

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

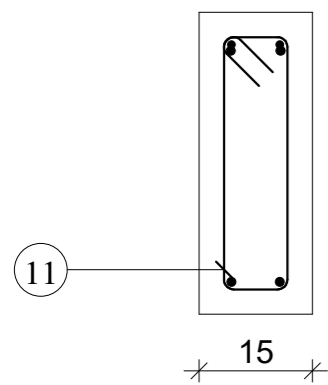
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Béton : BETON20 = 0.267 m³
Acier RL 235 = 4.76 kg
Acier HA 400 = 17.8 kg

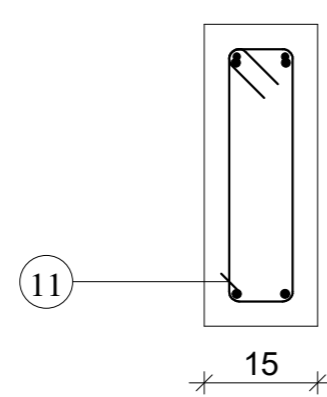
Pos.	Armature	Code	Forme
11	8RL6	I=98	31



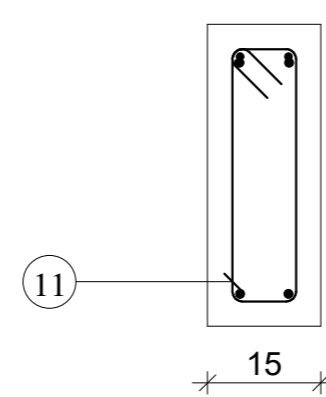
J-J



K-K



L-L



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

Ptr 6(15x40): P4

Section 15x40

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

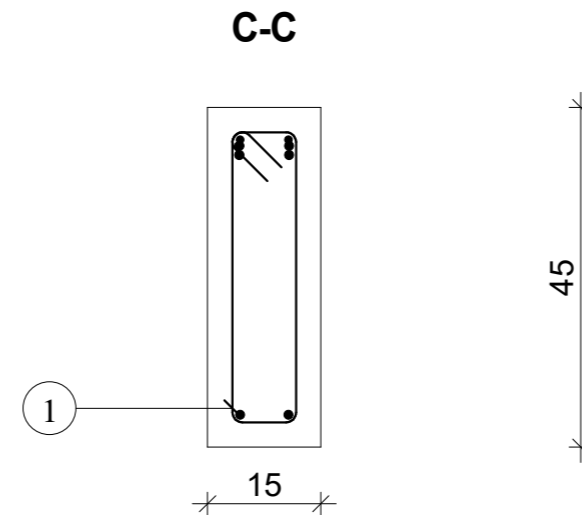
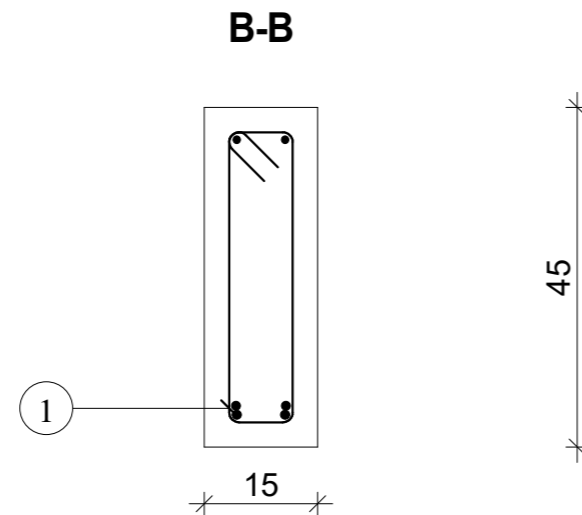
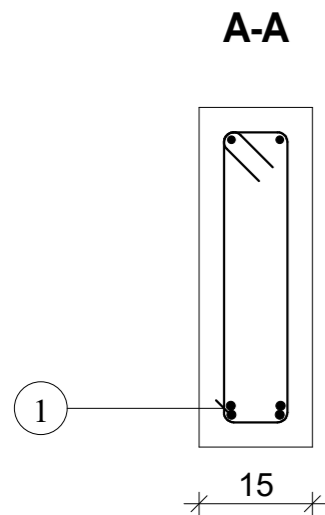
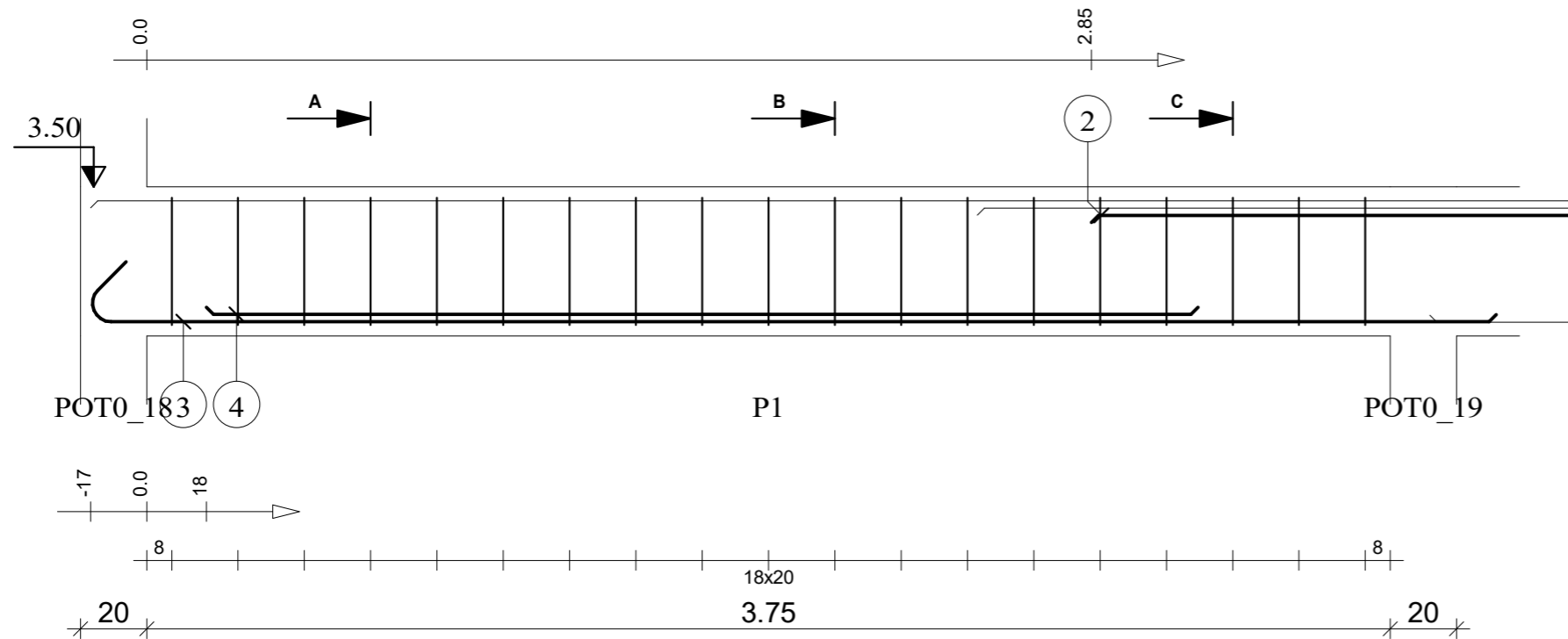
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Béton : BETON20 = 0.108 m³
Acier RL 235 = 1.73 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature		Code	Forme
①	19RL 6	l=1.08	31	
②	2HA 12	l=1.99	00	
③	2HA 12	l=4.43	00	
④	2HA 12	l=2.99	00	



Tél.
Fax

Echelle pour la vue 1:20
Echelle pour la section 1:10

Ptr 7(15x45): P1
Section 15x45

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

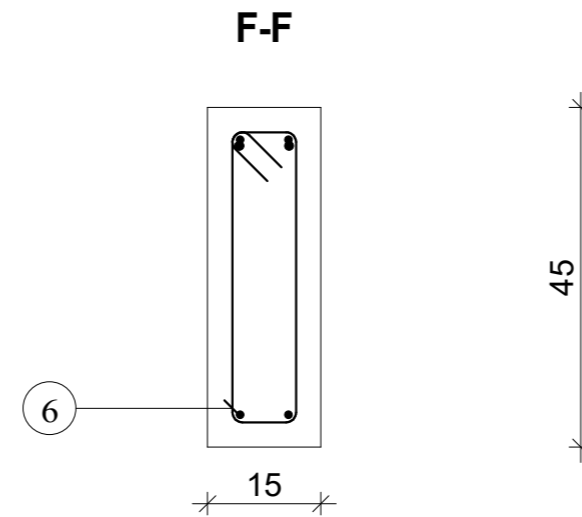
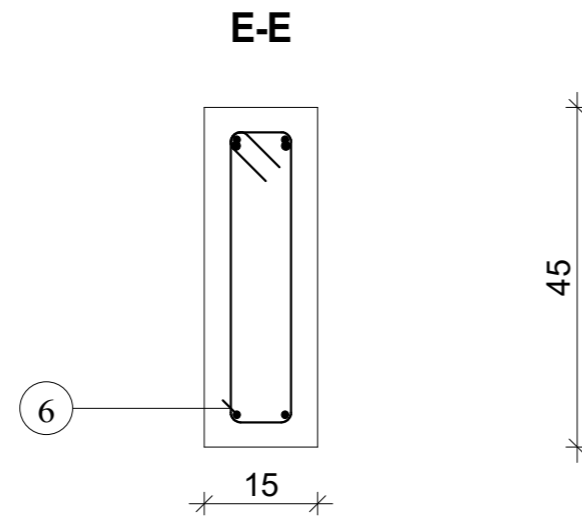
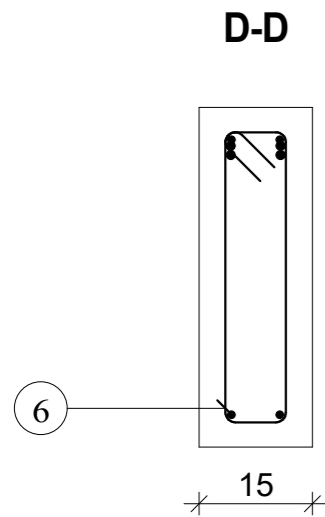
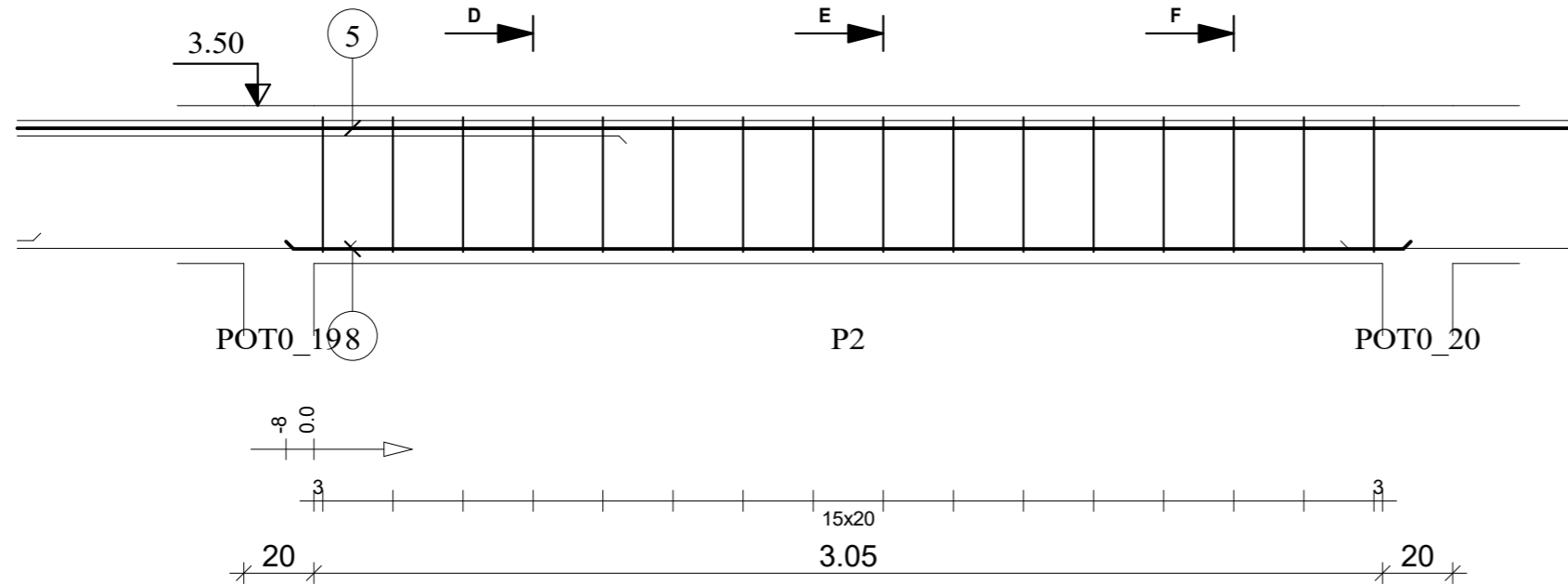
Page 1/6

Béton : BETON20 = 0.273 m3
Acier RL 235 = 4.53 kg
Acier HA 400 = 16.7 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature	Code	Forme
5	2HA 12	l=5.91	5.91
6	16RL 6	l=1.07*	
8	2HA 8	l=3.21	3.21



Tél.
Fax

Echelle pour la vue 1:20
Echelle pour la section 1:10

Ptr 7(15x45): P2
Section 15x45

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

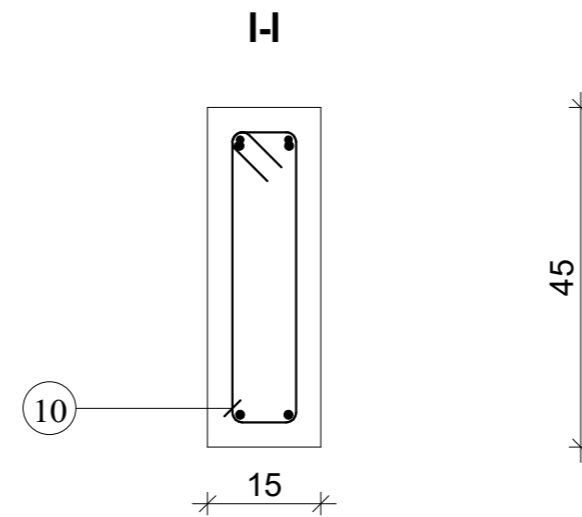
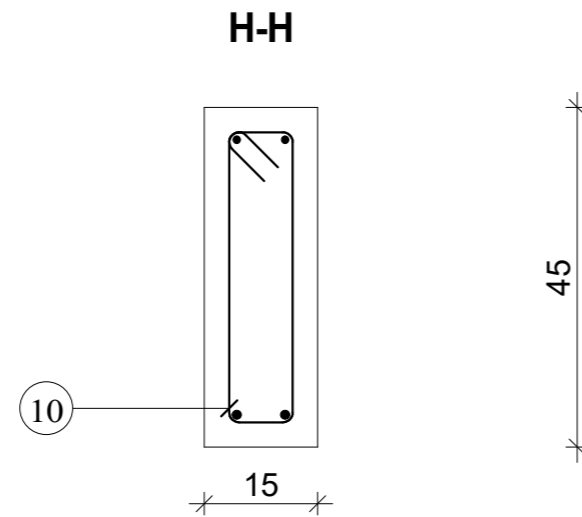
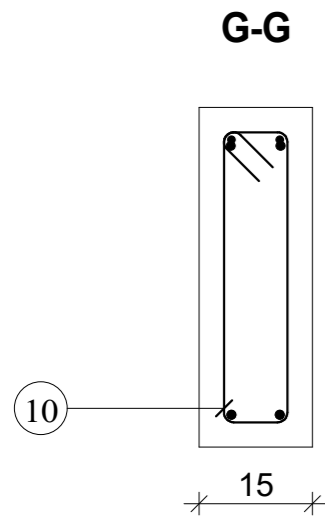
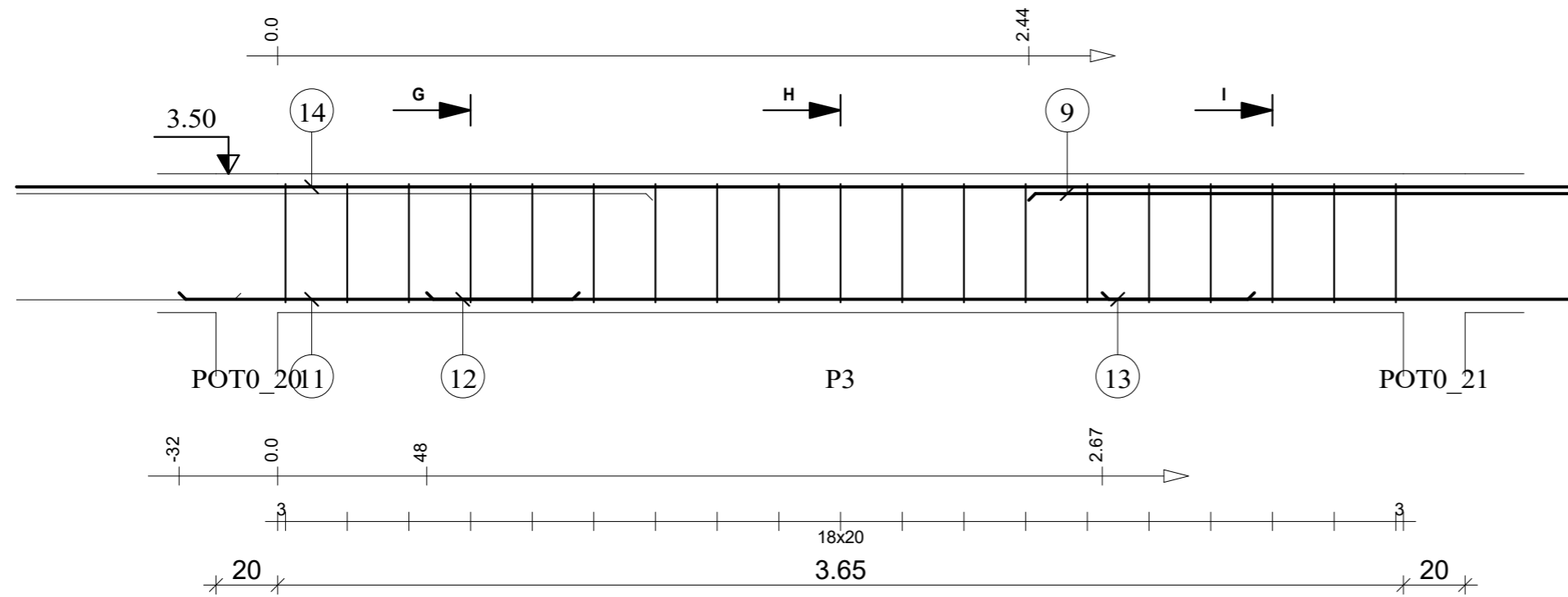
Page 2/6

Béton : BETON20 = 0.219 m3
Acier RL 235 = 3.79 kg
Acier HA 400 = 13 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature		Code	Forme
9	2HA 12	l=2.63	00	2.63
10	19RL 6	l=1.08	31	
11	2HA 12	l=1.30	00	1.30
12	2HA 12	l=2.68	00	2.68
13	2HA 12	l=2.15	00	2.15
14	2HA 8	l=21.94	00	21.94



Tél.
Fax

Echelle pour la vue 1:20
Echelle pour la section 1:10

Ptr 7(15x45): P3
Section 15x45

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

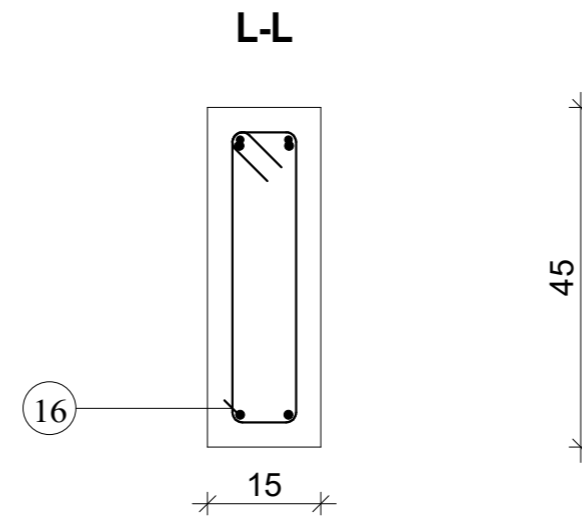
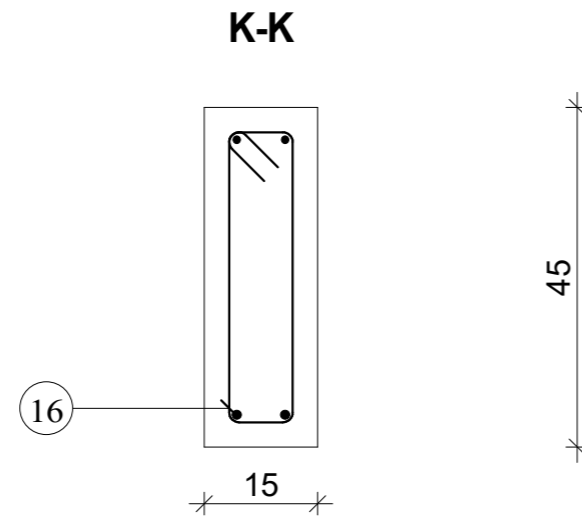
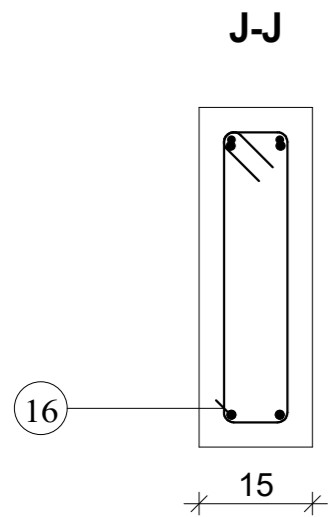
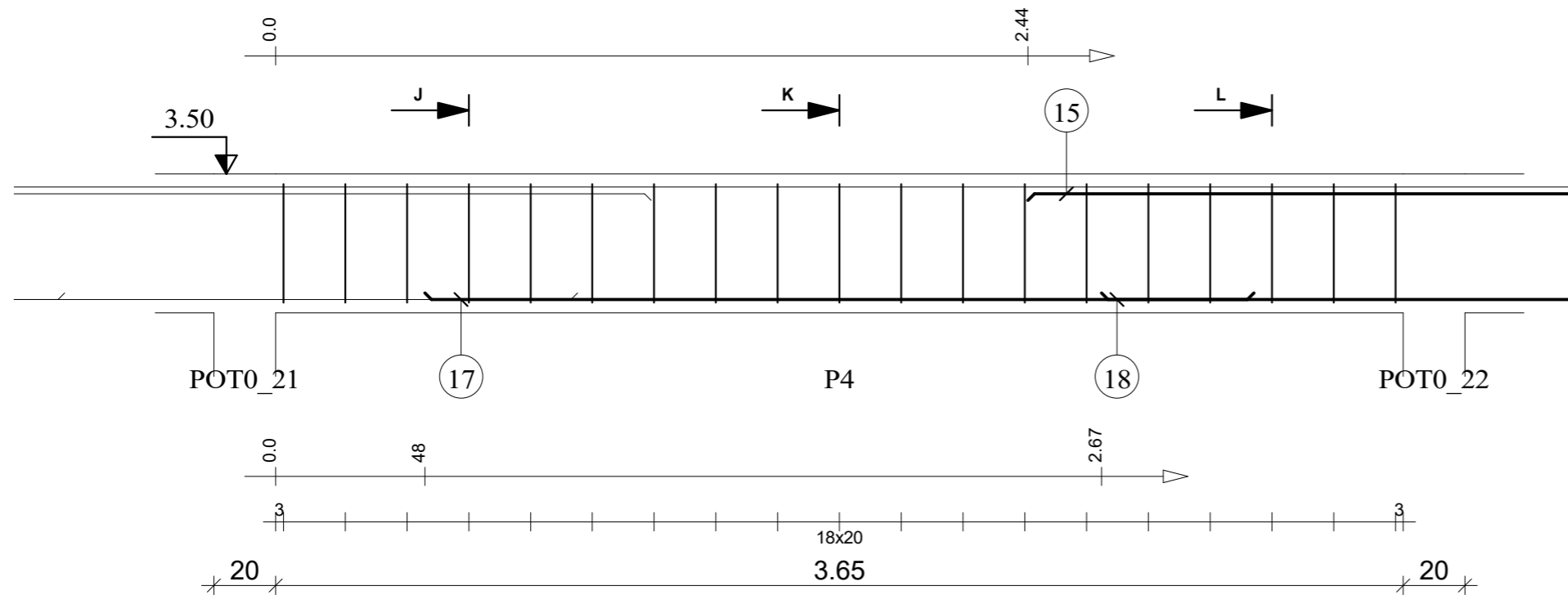
Page 3/6

Béton : BETON20 = 0.26 m3
Acier RL 235 = 4.53 kg
Acier HA 400 = 32.9 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature	Code	Forme
15	2HA 12	l=2.63	00 2.63
16	19RL 6	l=1.08	31 9 8 6
17	2HA 12	l=2.68	00 2.68
18	2HA 12	l=2.15	00 2.15



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

Ptr 7(15x45): P4

Section 15x45

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

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Béton : BETON20 = 0.26 m3

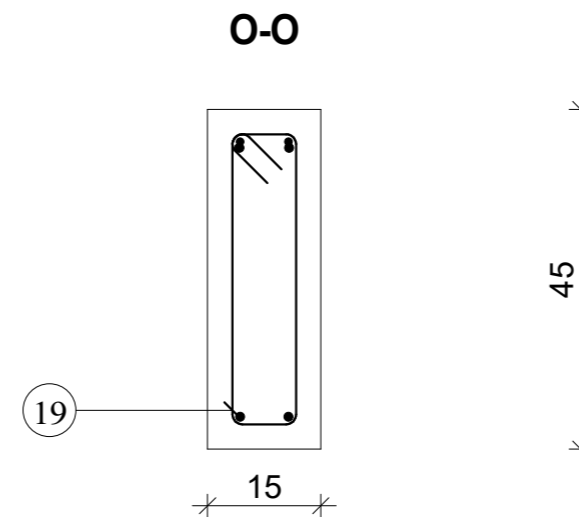
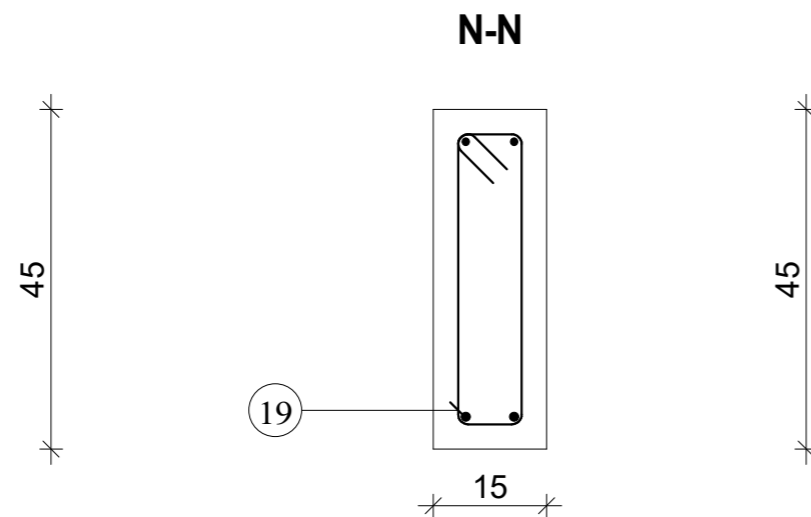
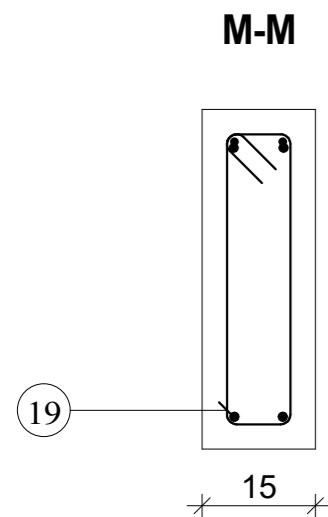
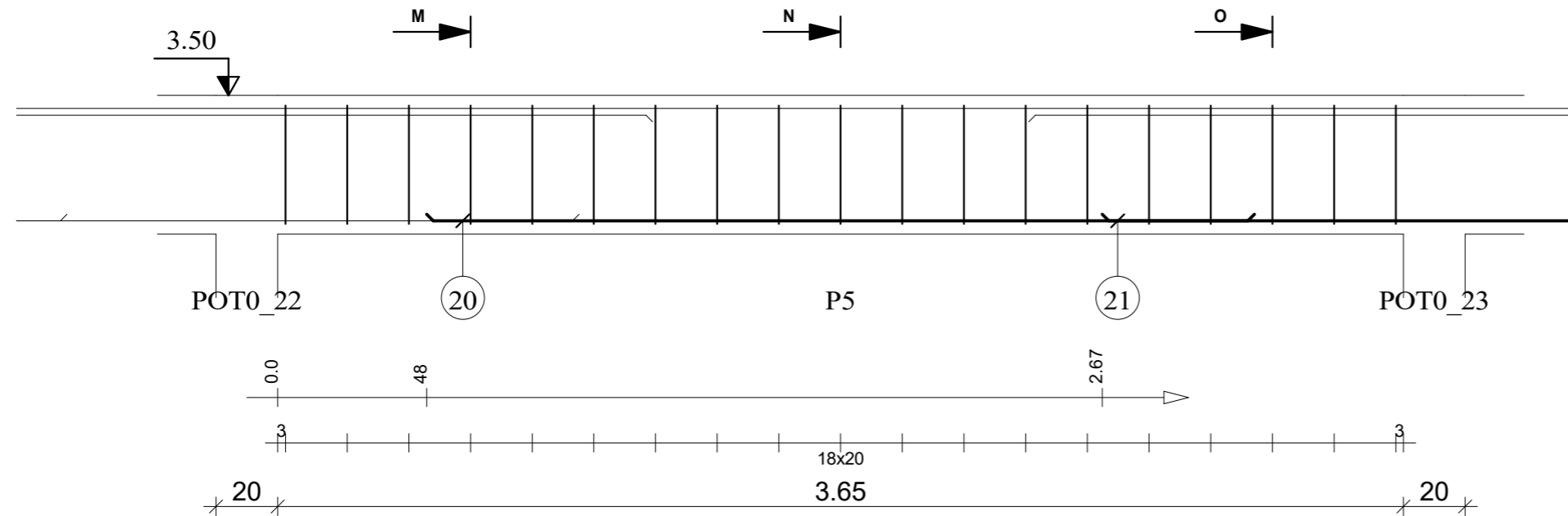
Acier RL 235 = 4.53 kg

Acier HA 400 = 13.3 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature		Code	Forme
①9	19RL 6	l=1.08	31	
②0	2HA 12	l=2.68	00	
②1	2HA 12	l=1.99	00	



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

Ptr 7(15x45): P5

Section 15x45

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 5/6

Béton : BETON20 = 0.26 m³

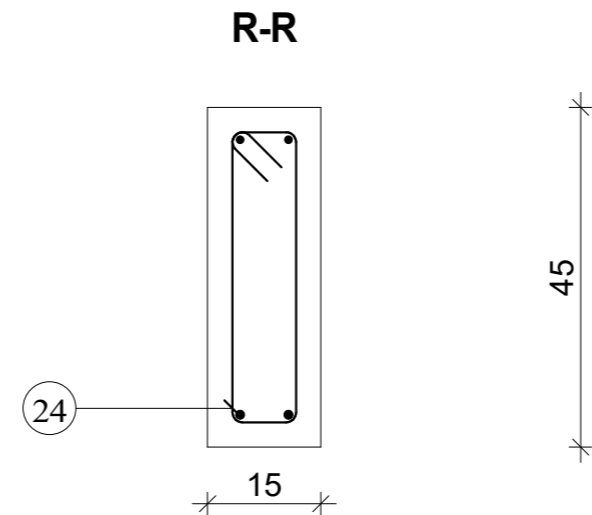
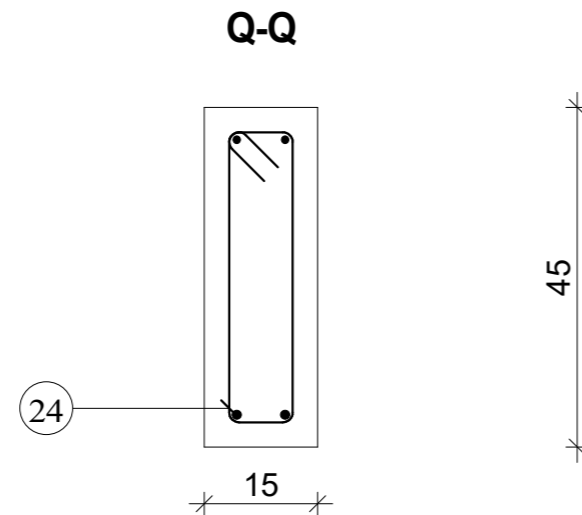
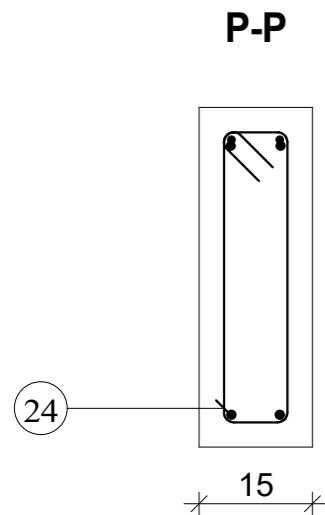
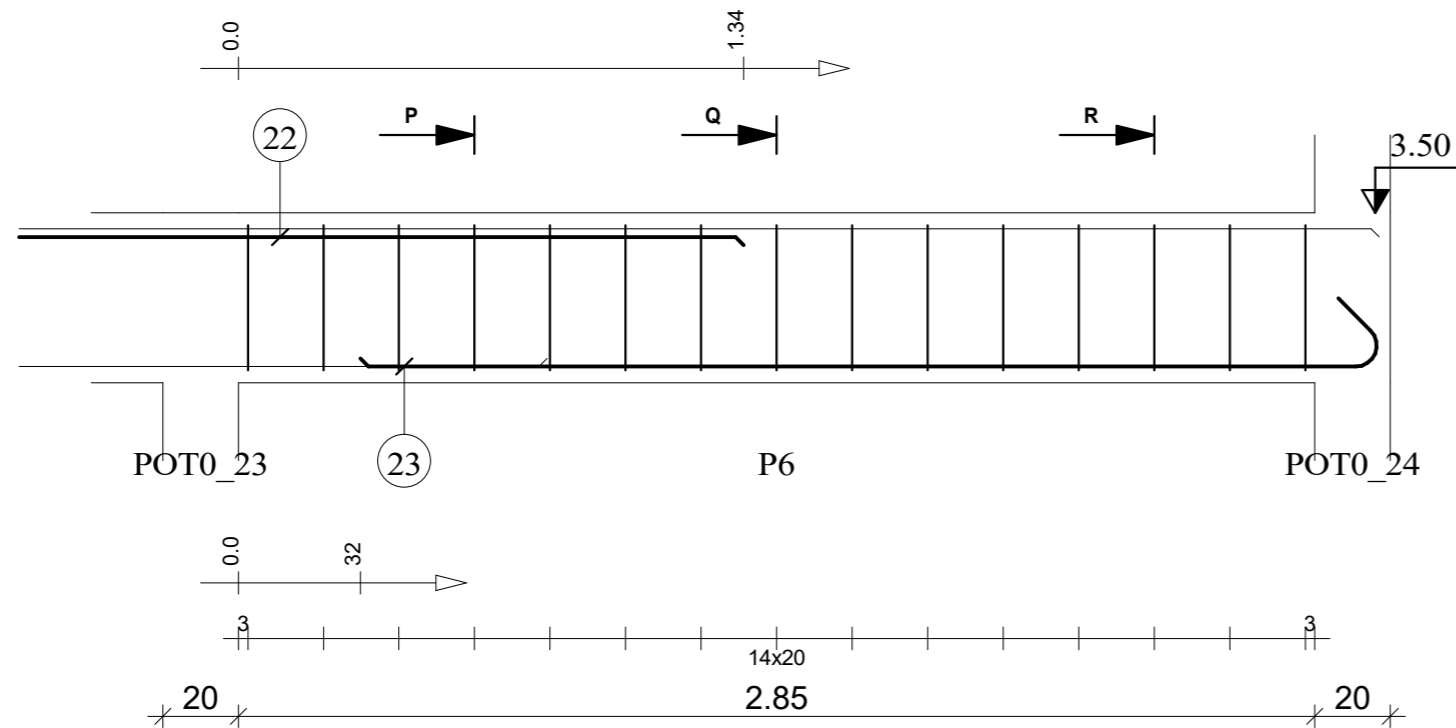
Acier RL 235 = 4.53 kg

Acier HA 400 = 8.31 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature	Code	Forme
22	2HA 12	l=2.75	00
23	2HA 12	l=2.89	00
24	15RL 6	l=1.08	31



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

Ptr 7(15x45): P6

Section 15x45

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

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Béton : BETON20 = 0.213 m³

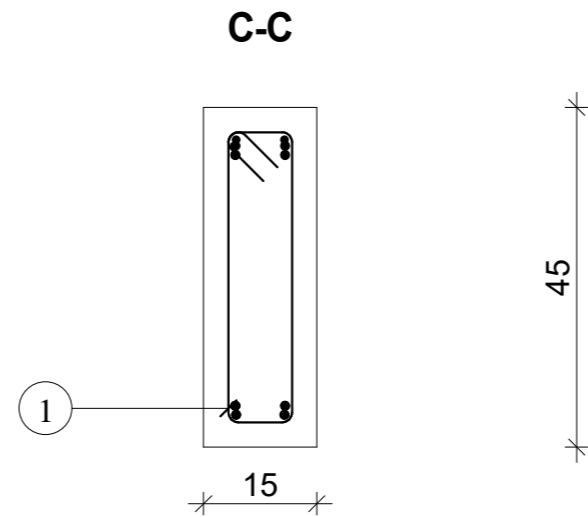
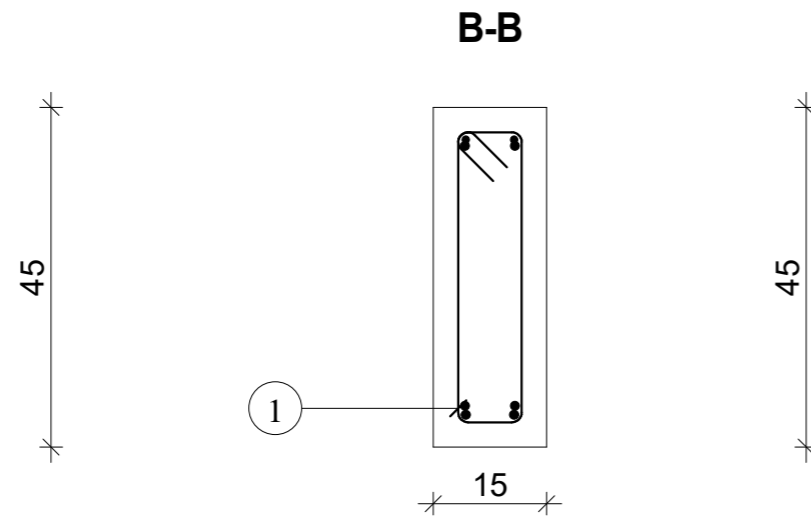
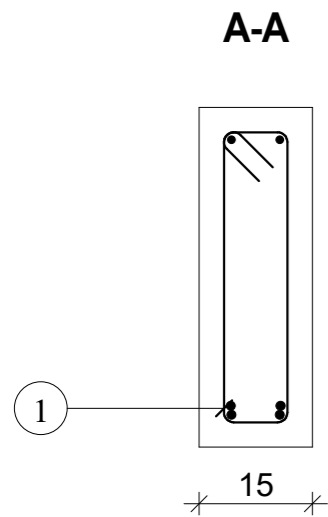
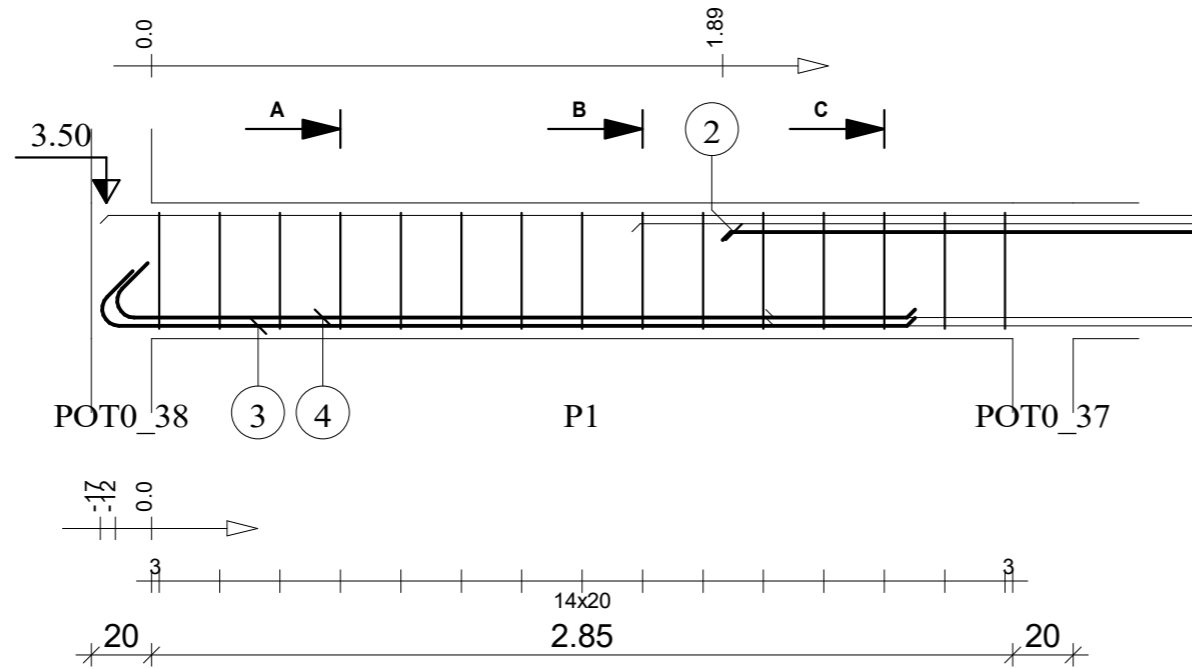
Acier RL 235 = 3.58 kg

Acier HA 400 = 10 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature		Code	Forme
①	15RL 6	l=1.08	31	
②	2HA 12	l=2.04	00	
③	2HA 12	l=2.89	00	
④	2HA 12	l=2.84	00	



Tél.
Fax

Echelle pour la vue 1:25
Echelle pour la section 1:10

Ptr 12(15x45): P1
Section 15x45

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

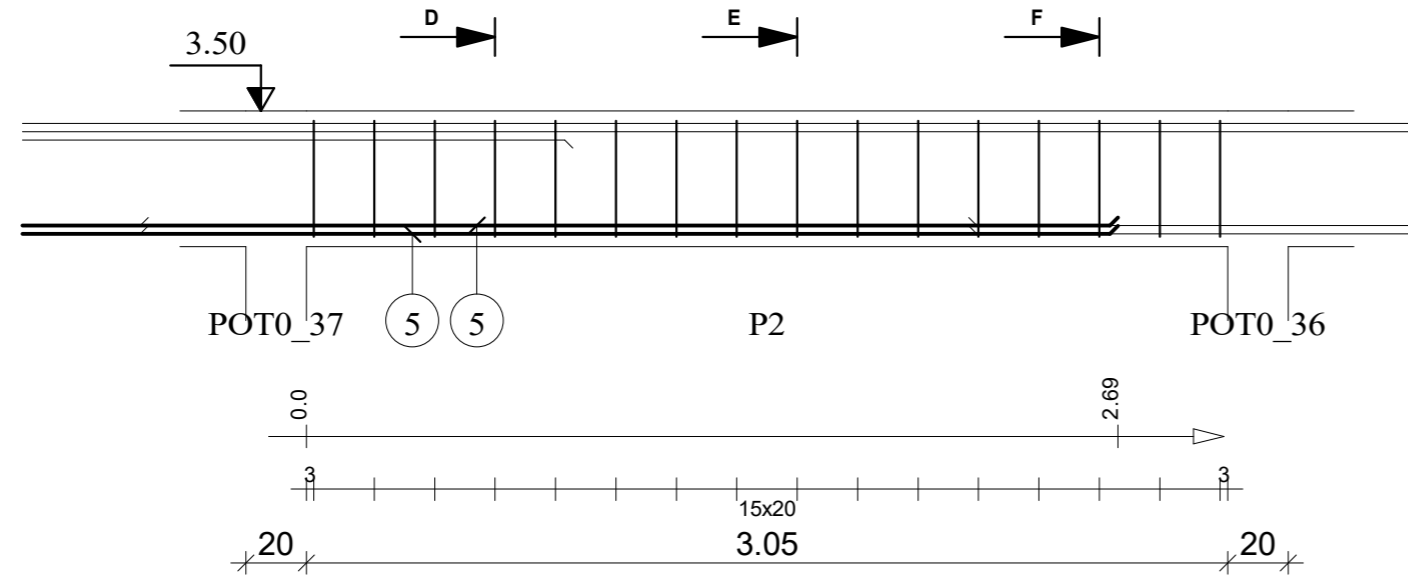
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Béton : BETON20 = 0.213 m³
Acier RL 235 = 3.58 kg
Acier HA 400 = 13.8 kg

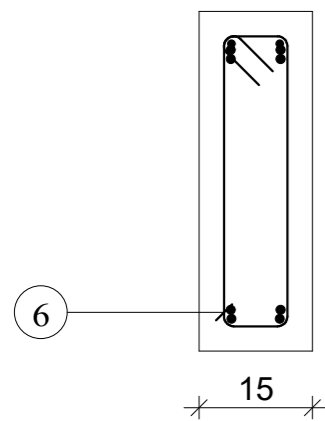
ETAGE COURANT

MINHDU Haut-Nyong_Poutres

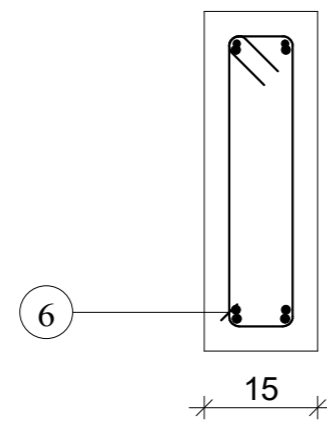
Pos.	Armature	Code	Forme
5	4HA 12	l=3.70	3.70
6	16RL 6	l=1.08	



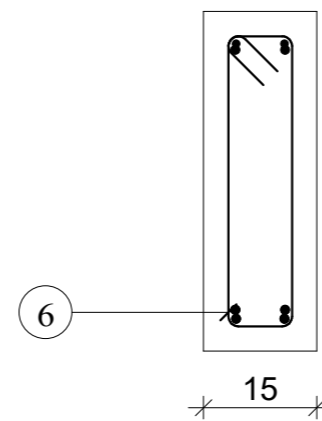
D-D



E-E



F-F



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

Ptr 12(15x45): P2

Section 15x45

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/7

Béton : BETON20 = 0.219 m3

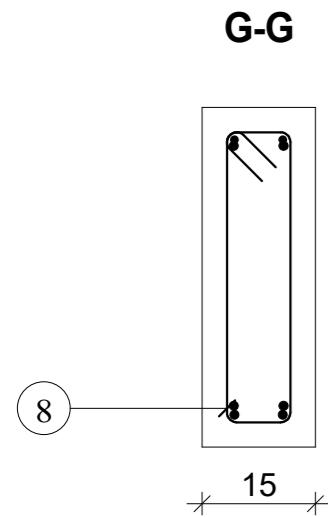
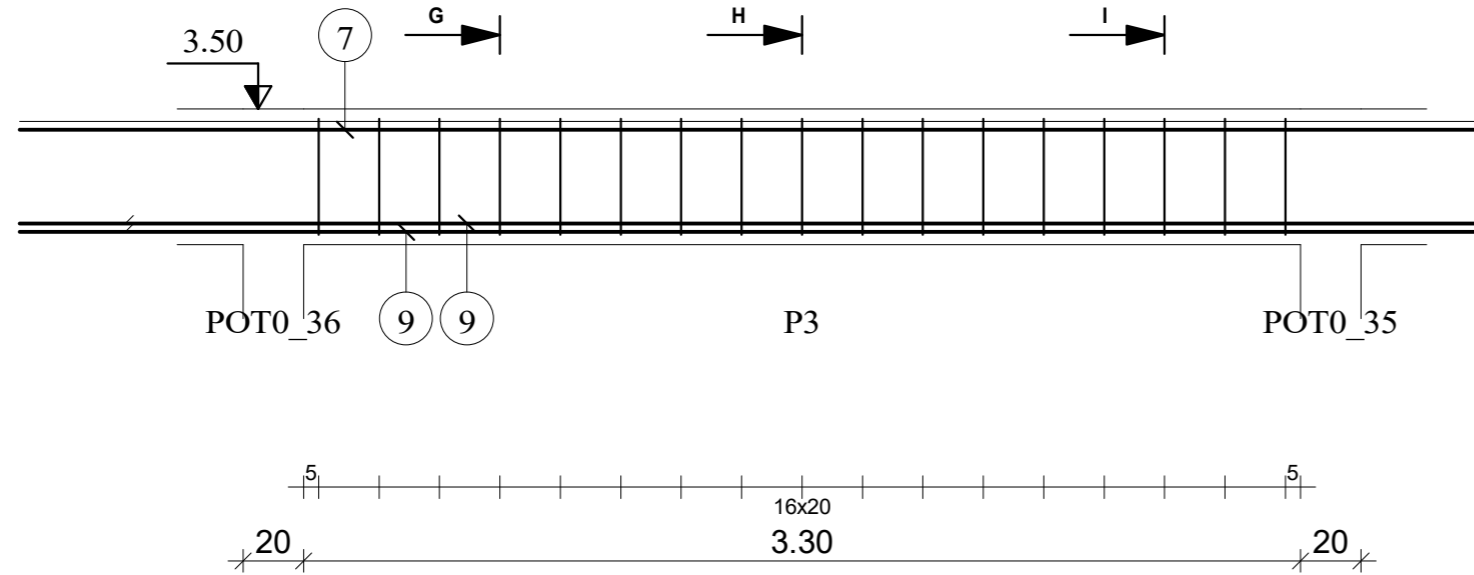
Acier RL 235 = 3.82 kg

Acier HA 400 = 13.2 kg

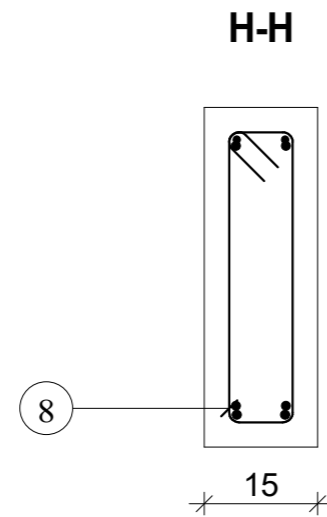
ETAGE COURANT

MINHDU Haut-Nyong_Poutres

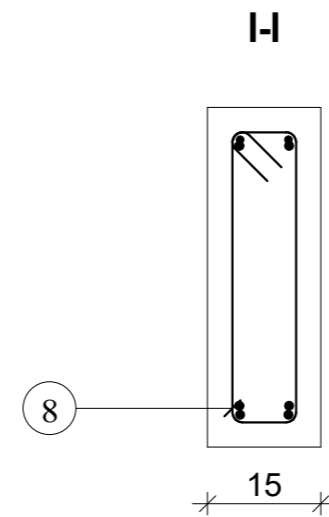
Pos.	Armature		Code	Forme
7	2HA 12	l=10.17	00	10.17
8	17RL 6	l=1.08	31	
9	4HA 12	l=5.72	00	5.72



45



45



45

Tél.
Fax

Echelle pour la vue 1:25
Echelle pour la section 1:10

Ptr 12(15x45): P3
Section 15x45

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

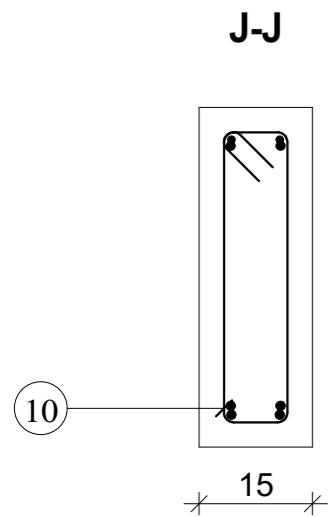
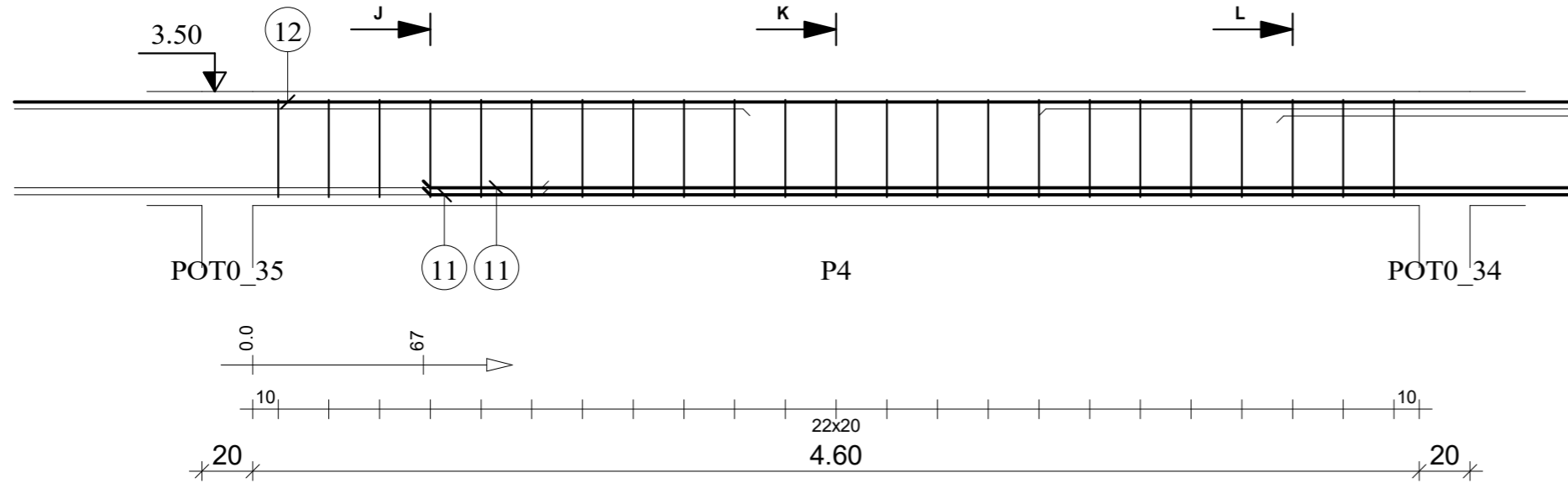
Page 3/7

Béton : BETON20 = 0.236 m3
Acier RL 235 = 4.05 kg
Acier HA 400 = 38.4 kg

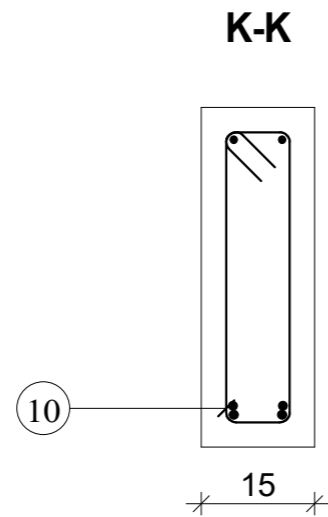
ETAGE COURANT

MINHDU Haut-Nyong_Poutres

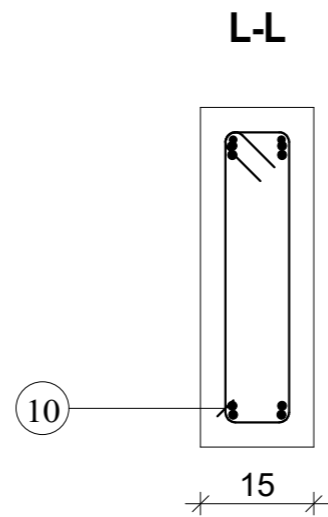
Pos.	Armature	Code	Forme
⑩	23RL 6	l=1.08	31
⑪	4HA 12	l=4.98	00
⑫	2HA 8	l=23.68	00



45



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Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

Ptr 12(15x45): P4

Section 15x45

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 4/7

Béton : BETON20 = 0.324 m³

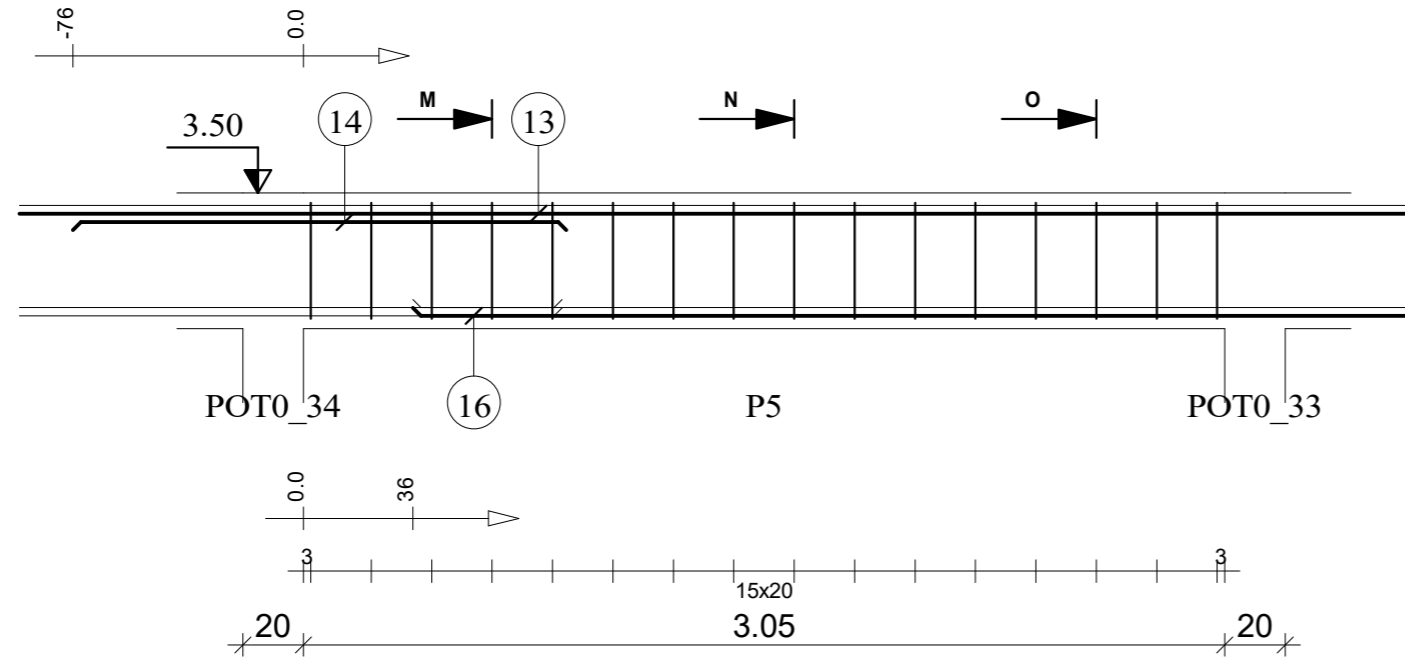
Acier RL 235 = 5.49 kg

Acier HA 400 = 36.4 kg

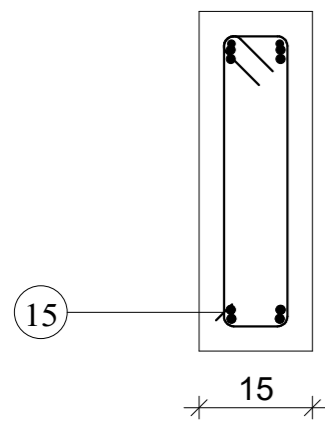
ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature		Code	Forme
13	2HA 12	l=6.20	00	6.20
14	2HA 12	l=1.63	00	1.63
15	16RL 6	l=1.08	31	
16	2HA 12	l=3.88	00	3.88

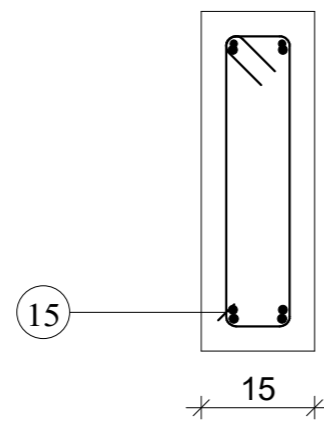


M-M



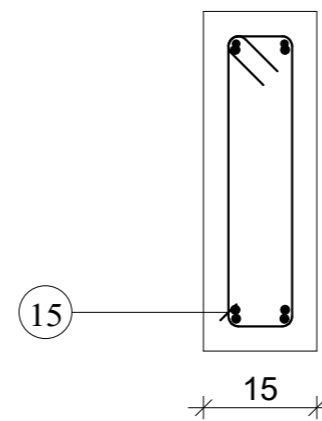
45

N-N



45

O-O



45

Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

Ptr 12(15x45): P5

Section 15x45

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 5/7

Béton : BETON20 = 0.219 m³

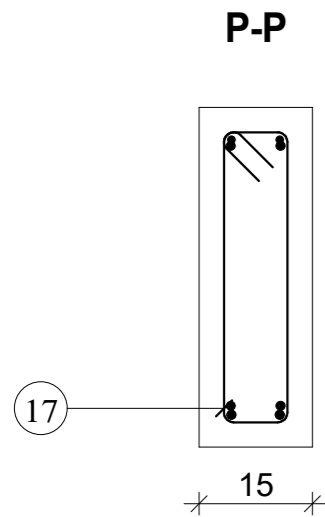
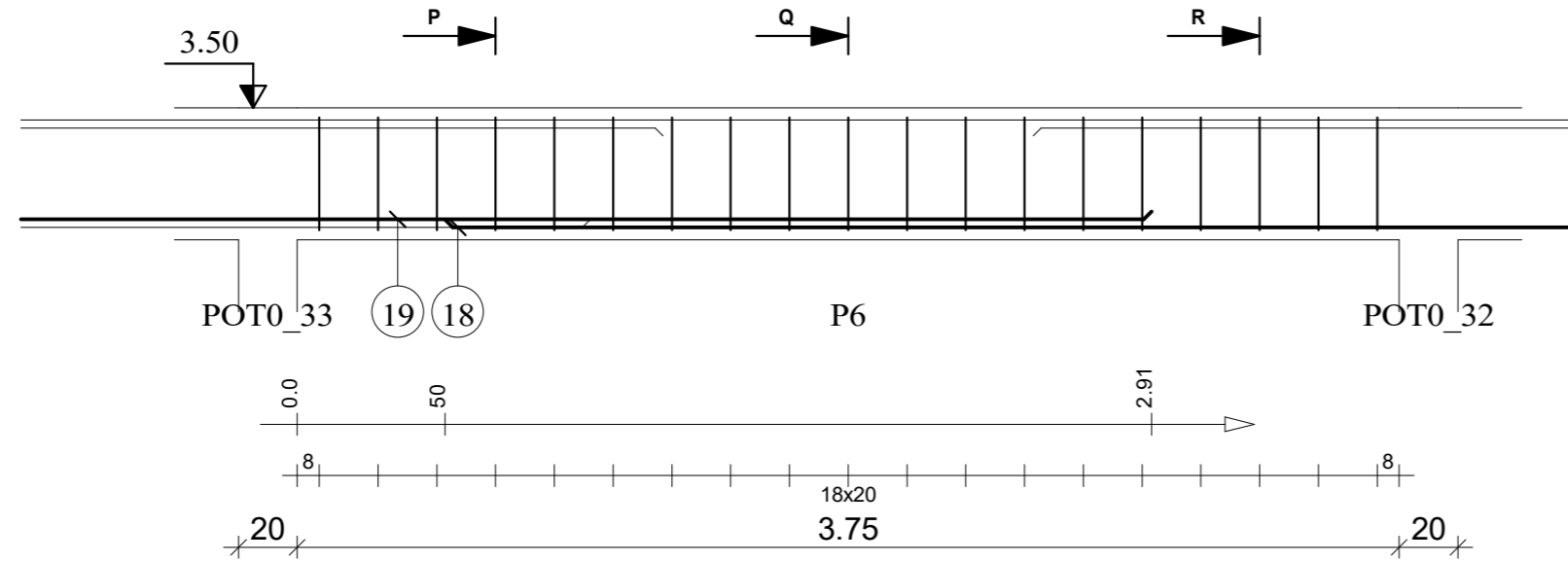
Acier RL 235 = 3.82 kg

Acier HA 400 = 20.8 kg

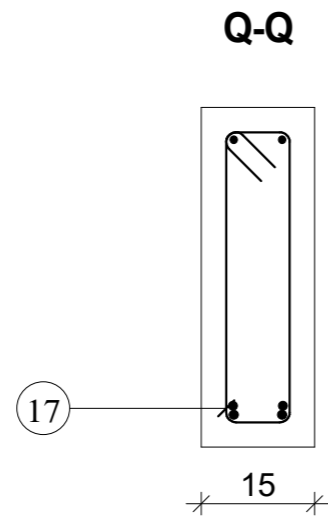
ETAGE COURANT

MINHDU Haut-Nyong_Poutres

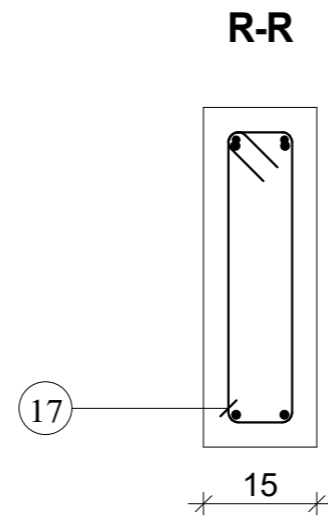
Pos.	Armature		Code	Forme
17	19RL 6	l=1.08	31	
18	2HA 12	l=5.10	00	
19	2HA 12	l=5.79	00	



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Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

Ptr 12(15x45): P6

Section 15x45

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

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
Béton : BETON20 = 0.267 m3

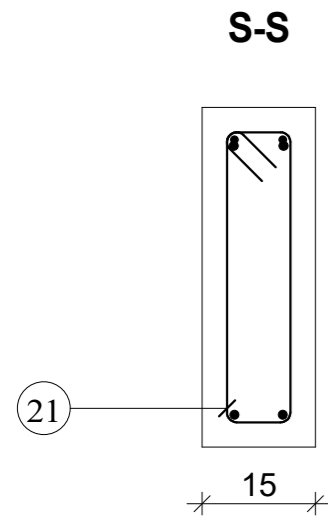
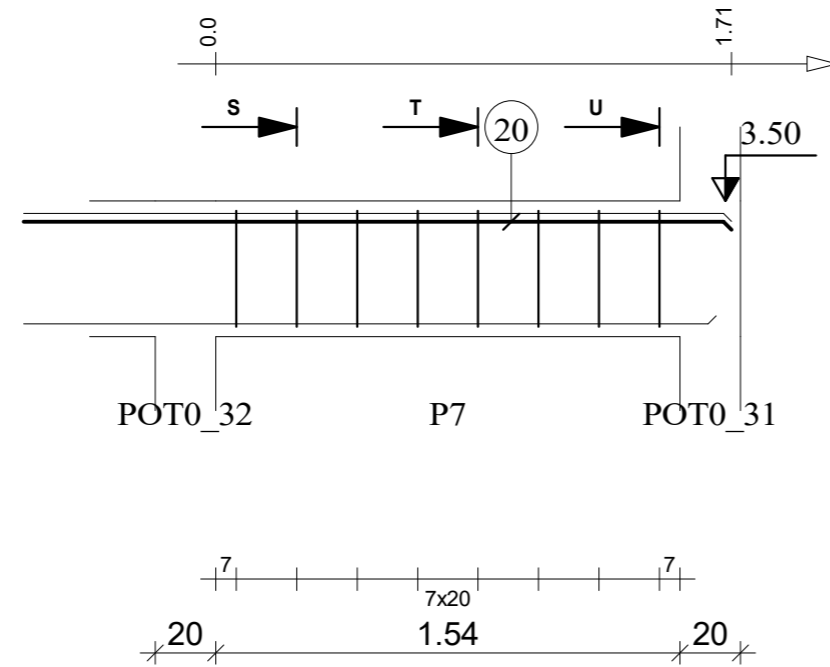
Acier RL 235 = 4.53 kg

Acier HA 400 = 19.4 kg

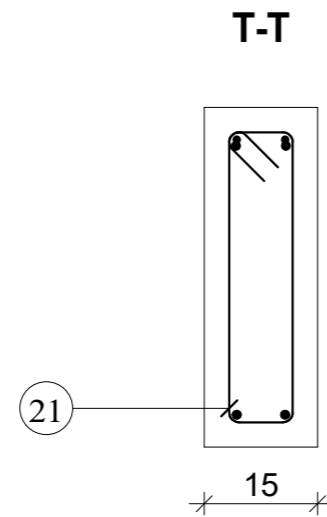
ETAGE COURANT

MINHDU Haut-Nyong_Poutres

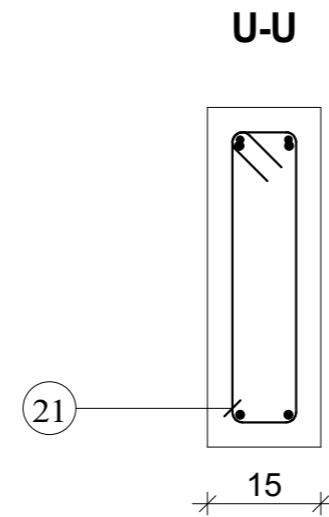
Pos.	Armature	Code	Forme
20	2HA 12	l=3.15	3.15
21	8RL 6	l=1.08	



45



45



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Tél.
Fax

Echelle pour la vue 1:25
Echelle pour la section 1:10

Ptr 12(15x45): P7
Section 15x45

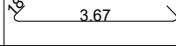
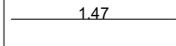
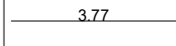

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

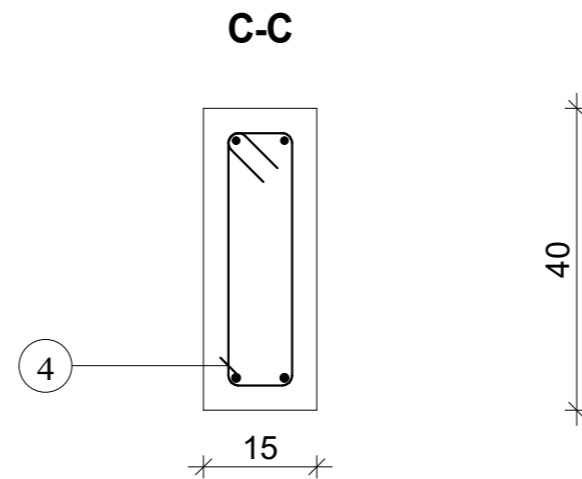
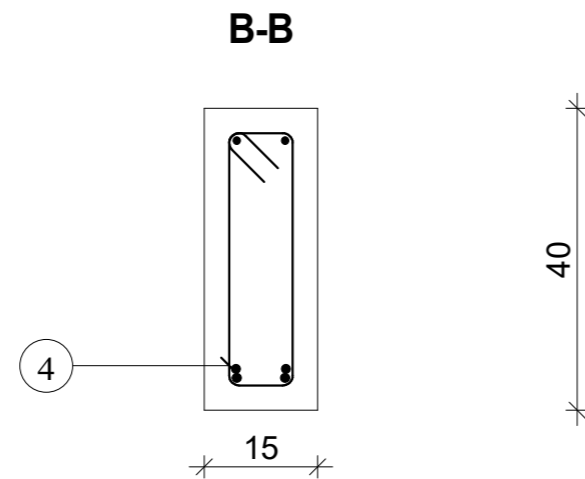
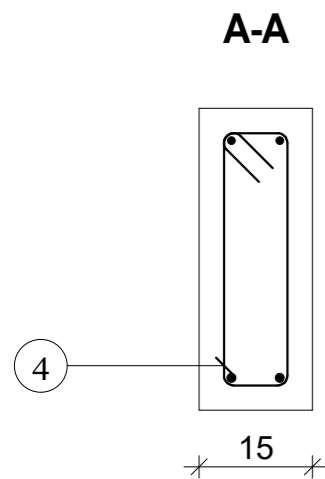
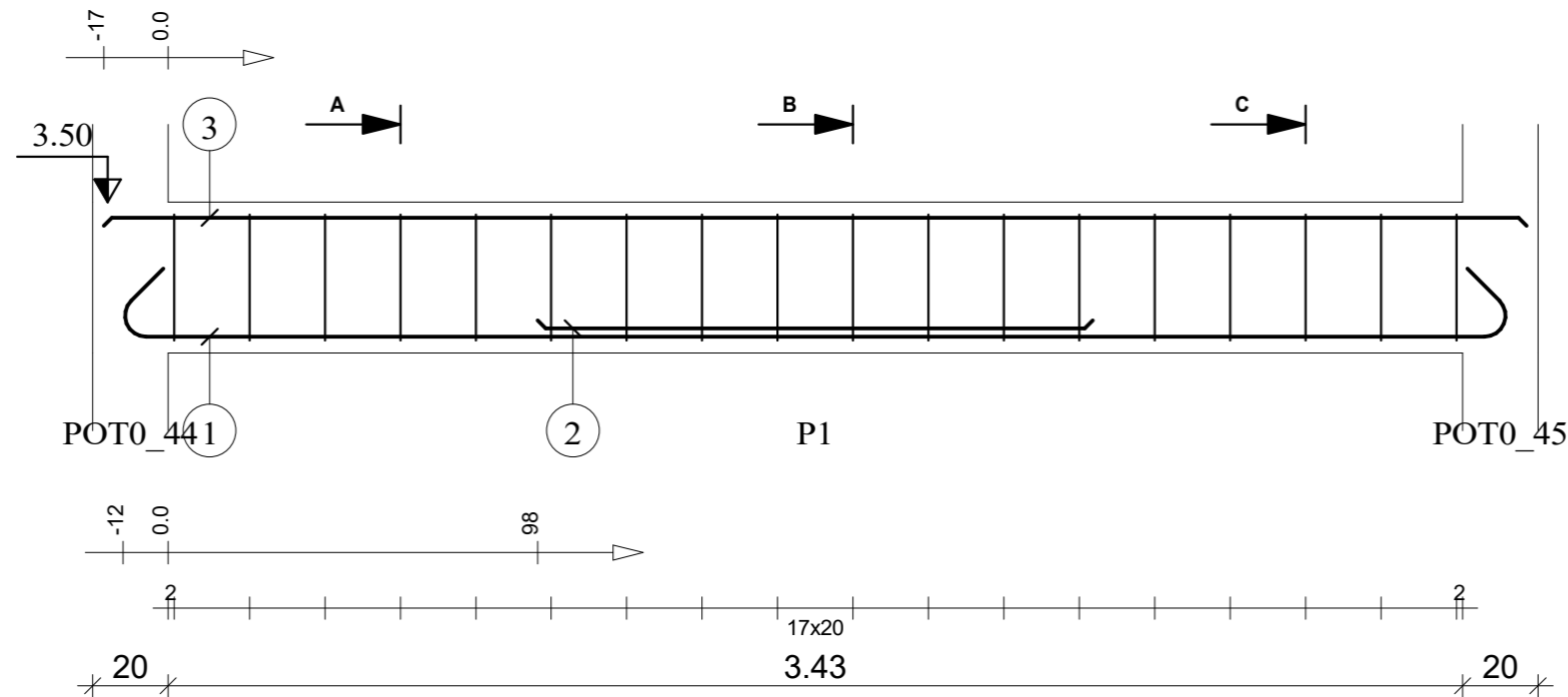
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Béton : BETON20 = 0.124 m³
Acier RL 235 = 1.91 kg
Acier HA 400 = 5.6 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature	Code	Forme
①	2HA 12	l=4.05	00 
②	2HA 12	l=1.47	00 
③	2HA 8	l=3.77	00 
④	18RL 6	l=98	31 



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Echelle pour la vue 1:20

Echelle pour la section 1:10

Ptr 14(15x40): P1

Section 15x40

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/1

Béton : BETON20 = 0.23 m3

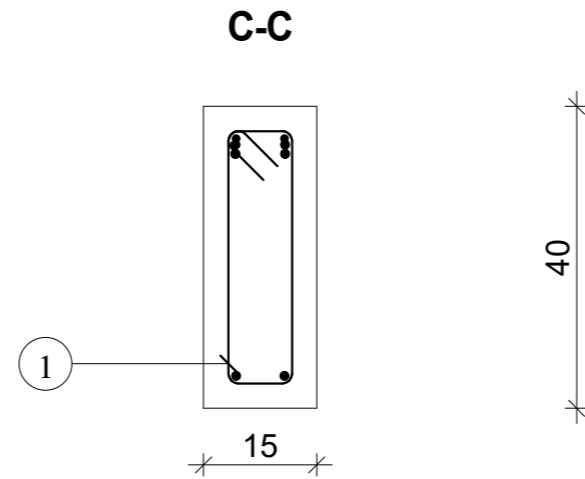
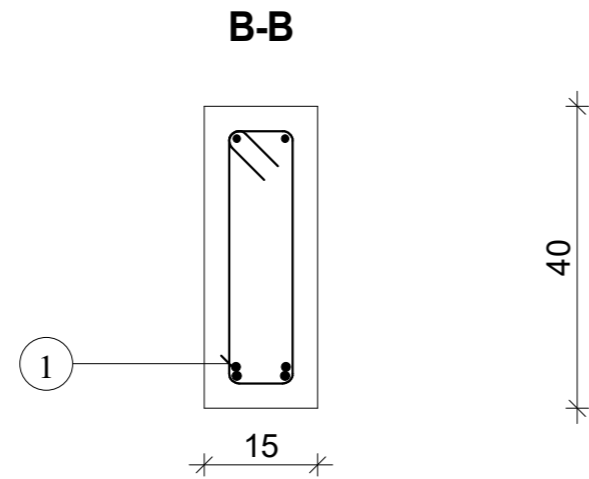
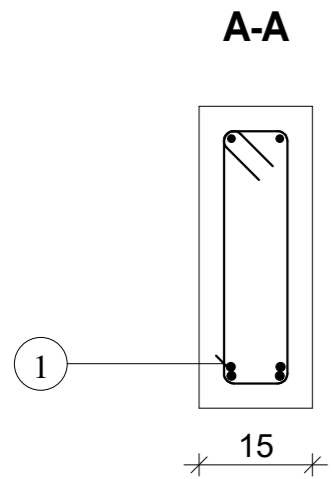
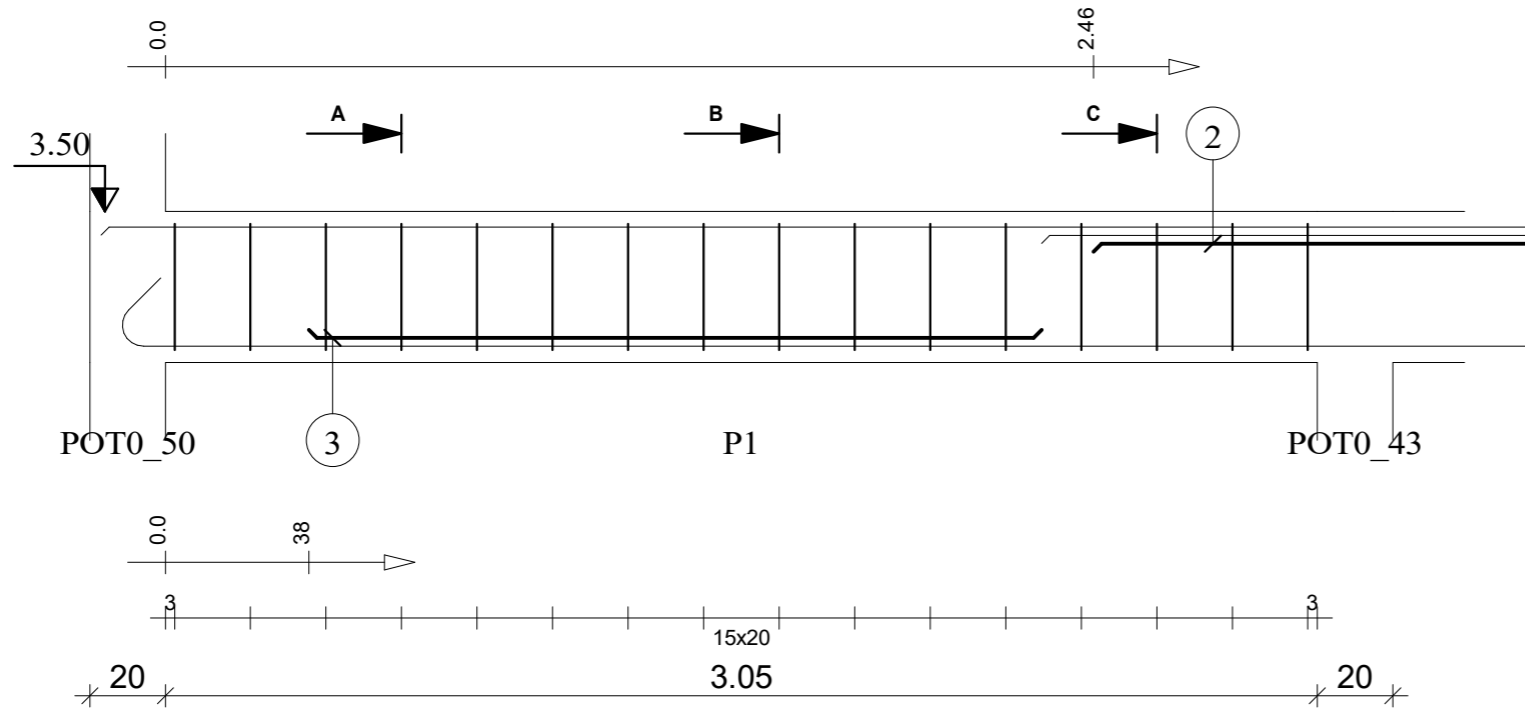
Acier RL 235 = 3.89 kg

Acier HA 400 = 12.8 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature		Code	Forme
①	16RL 6	l=98	31	
②	2HA 12	l=1.37	00	
③	2HA 12	l=1.94	00	



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

Ptr 15(15x40): P1

Section 15x40

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/2

Béton : BETON20 = 0.201 m3

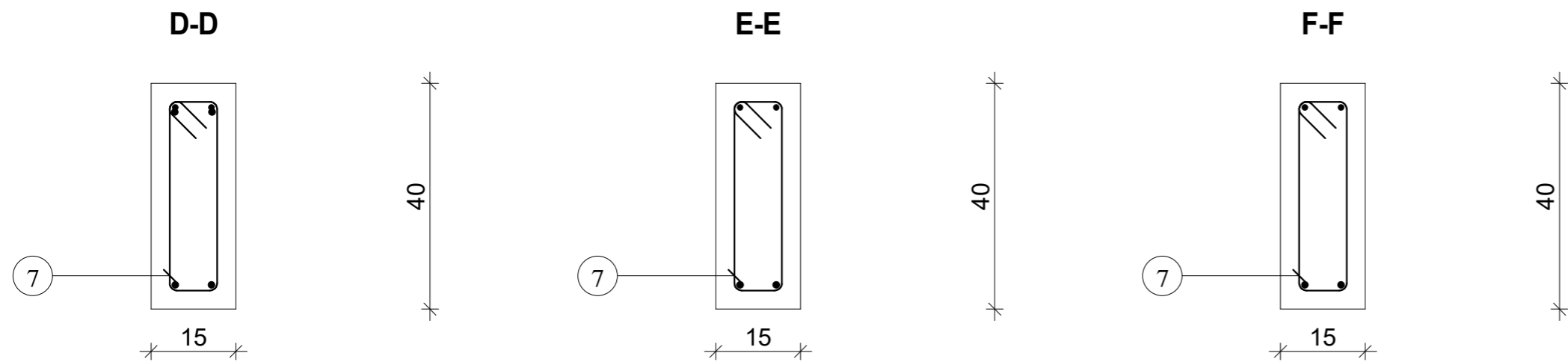
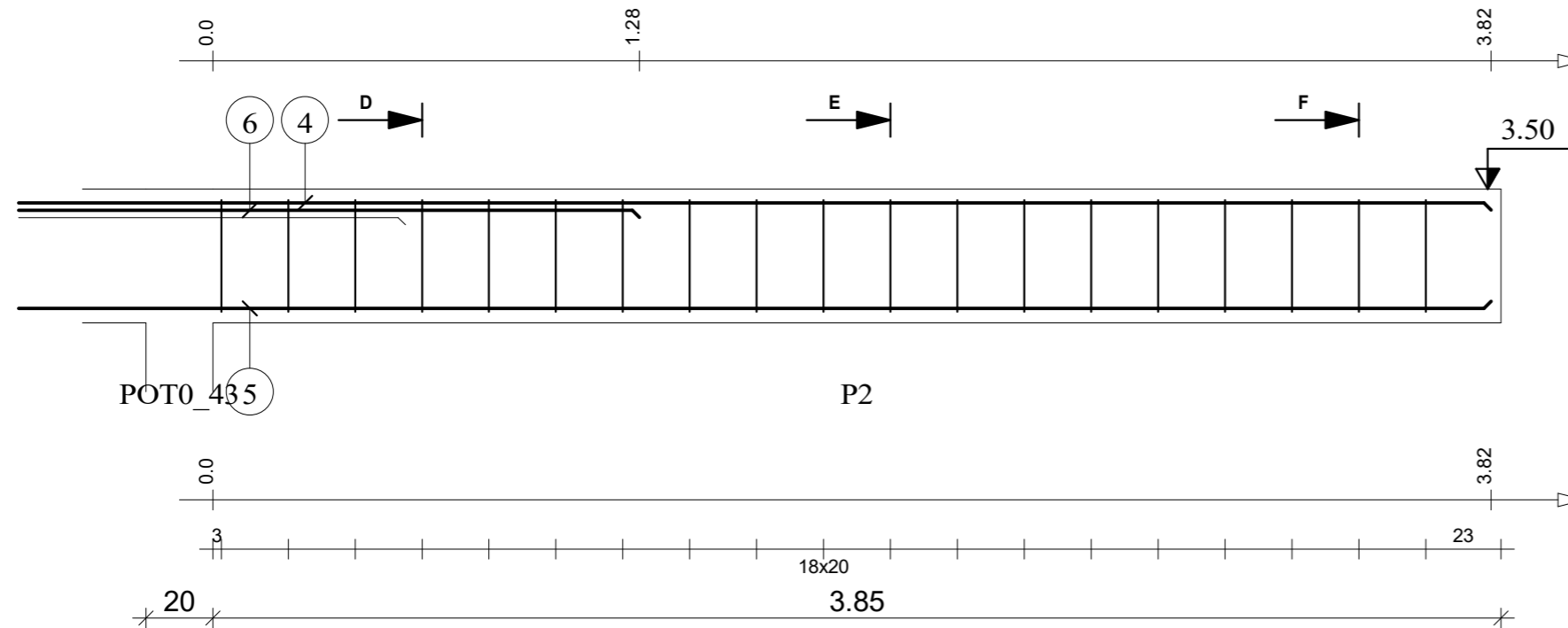
Acier RL 235 = 3.46 kg

Acier HA 400 = 5.87 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature	Code	Forme
④	2HA 8	l=7.24	00
⑤	2HA 12	l=7.38	00
⑥	2HA 12	l=2.21	00
⑦	19RL 6	l=98	31



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

Ptr 15(15x40): P2

Section 15x40

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/2

Béton : BETON20 = 0.237 m³

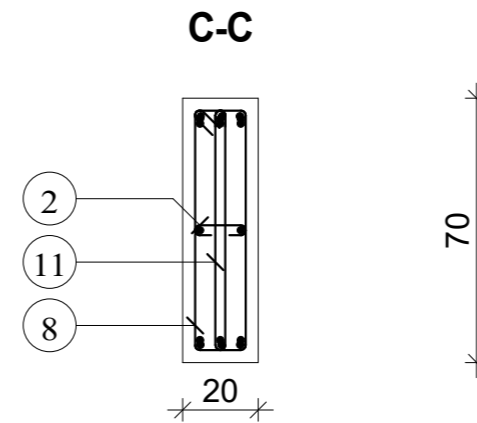
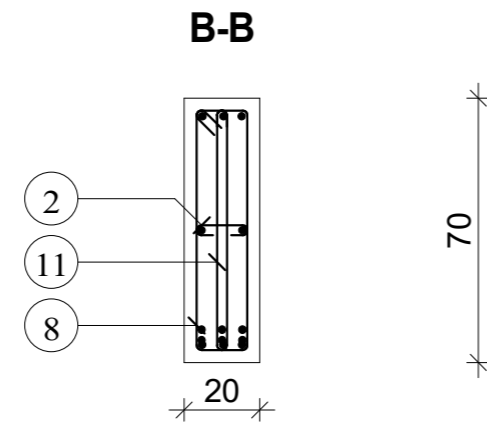
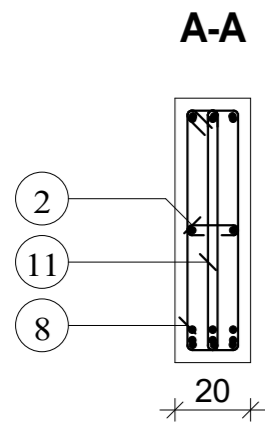
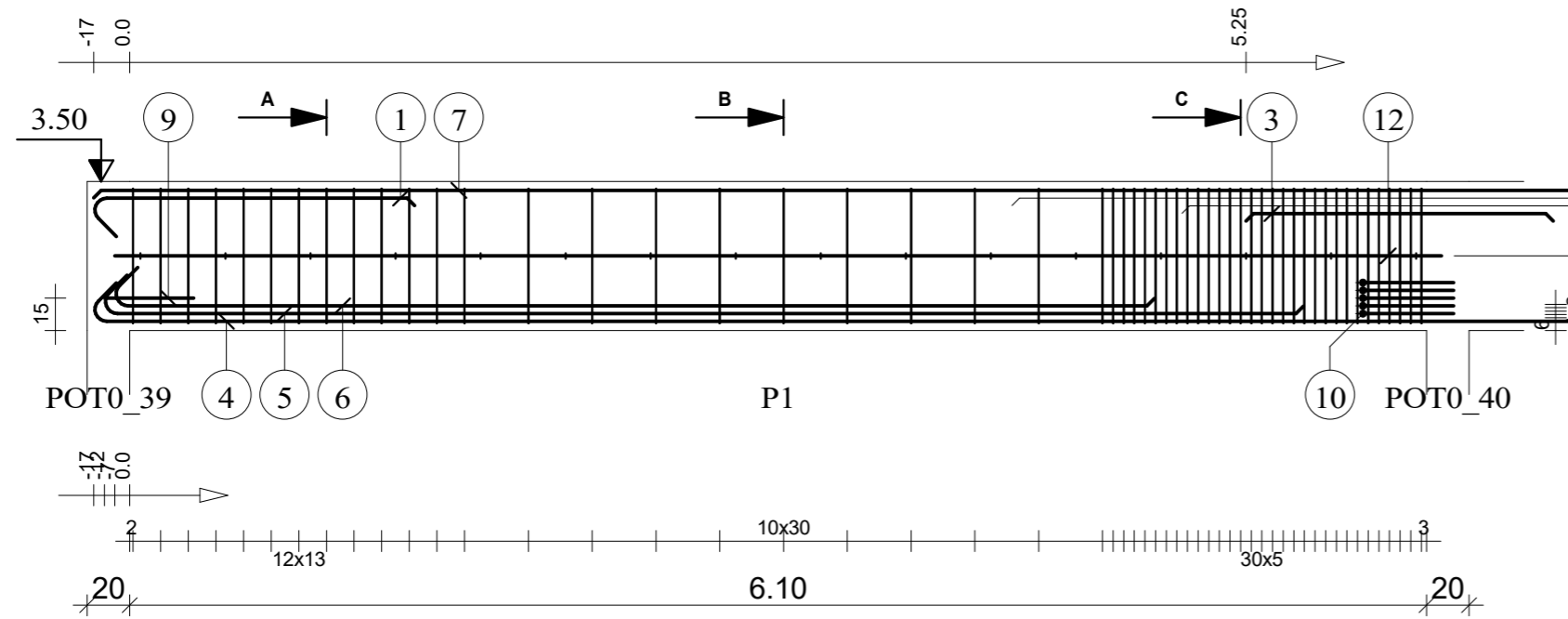
Acier RL 235 = 4.11 kg

Acier HA 400 = 22.7 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature		Code	Forme
①	3HA 12	l=1.70	00	
②	16RL 6	l=25	00	
③	3HA 12	l=1.45	00	
④	3HA 12	l=10.08	00	
⑤	3HA 12	l=5.83	00	
⑥	3HA 12	l=5.08	00	
⑦	3HA 8	l=9.94	00	
⑧	53RL 6	l=1.68	31	
⑨	1RL 6	l=95	21	
⑩	5RL 6	l=97	21	
⑪	53RL 6	l=1.40		
⑫	2RL 10	l=6.24	00	



Tél.

Fax

Echelle pour la vue 1:33

Echelle pour la section 1:20

Ptr 16(20x70): P1

Section 20x70

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/2

Béton : BETON20 = 0.896 m3

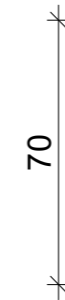
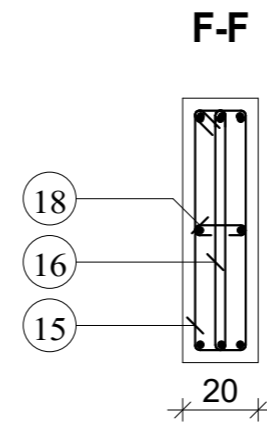
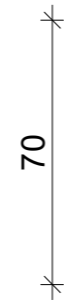
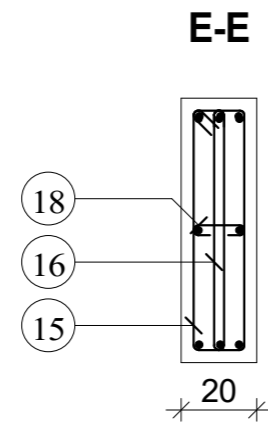
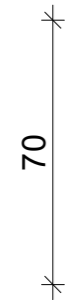
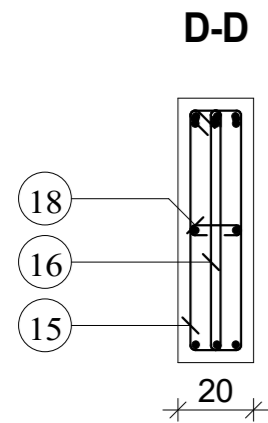
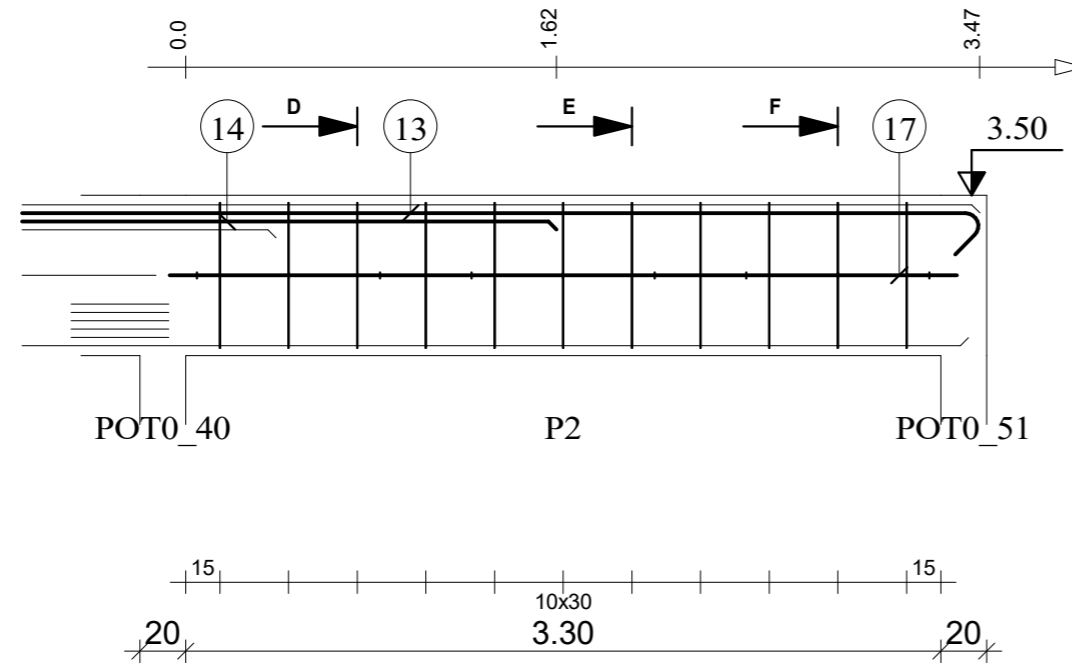
Acier RL 235 = 46 kg

Acier HA 400 = 76 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature	Code	Forme
13	3HA 12	l=5.81	00
14	3HA 12	l=2.97	00
15	11RL 6	l=1.68	31
16	11RL 6	l=1.40	
17	2RL 10	l=3.44	00
18	9RL 6	l=25	00



Tél.
Fax

Echelle pour la vue 1:33
Echelle pour la section 1:20

Ptr 16(20x70): P2
Section 20x70

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

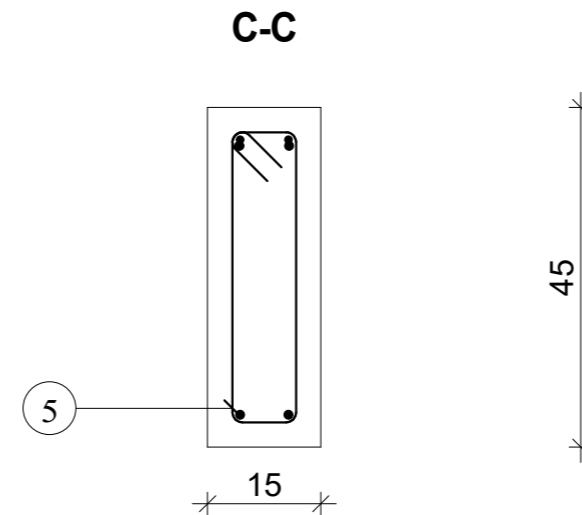
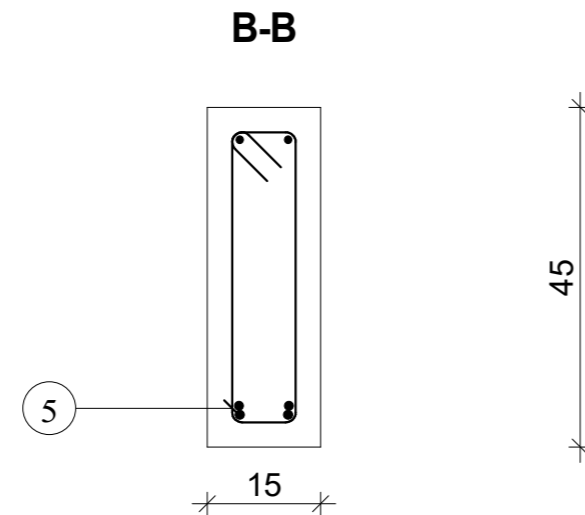
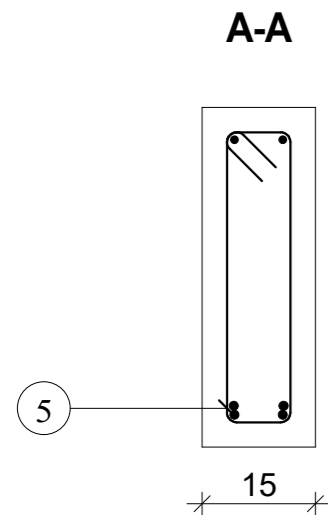
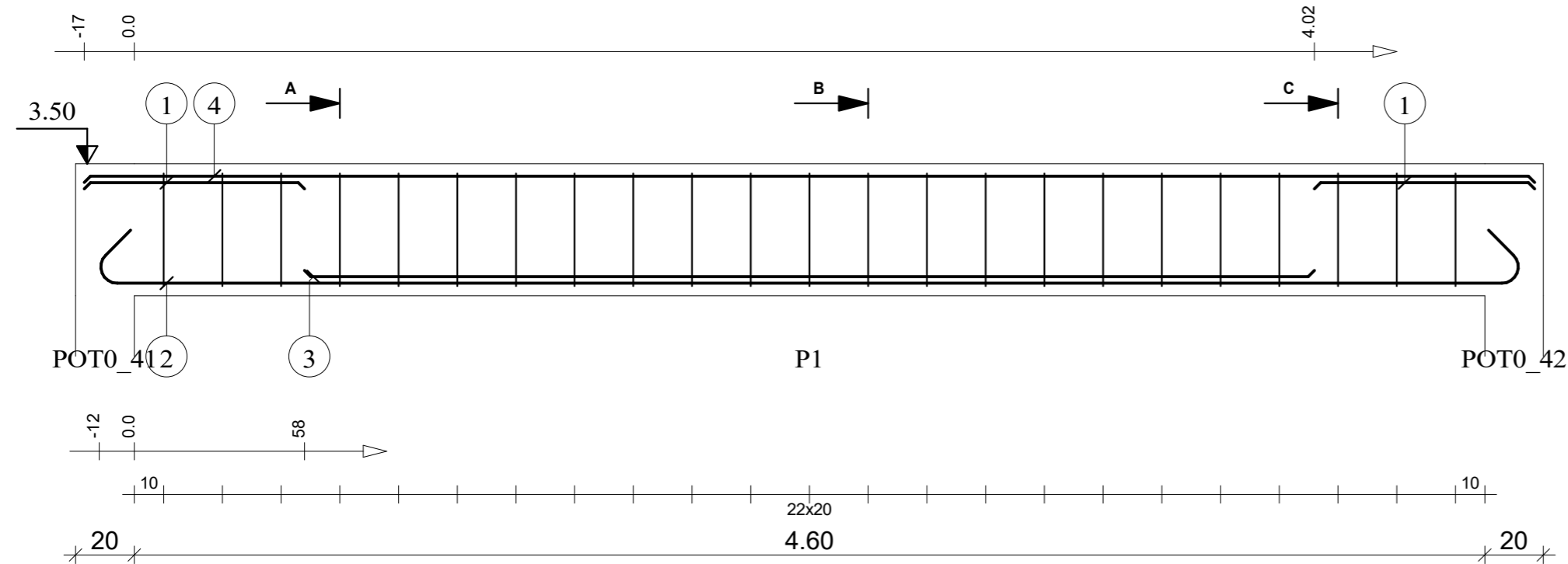
Page 2/2

Béton : BETON20 = 0.504 m3
Acier RL 235 = 12.2 kg
Acier HA 400 = 23.4 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature		Code	Forme
①	4HA 12	l=75	00	75
②	2HA 12	l=5.22	00	4.84
③	2HA 12	l=3.44	00	3.44
④	2HA 8	l=4.94	00	4.94
⑤	23RL 6	l=1.08	31	



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

Ptr 17(15x45): P1

Section 15x45

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/1

Béton : BETON20 = 0.337 m3

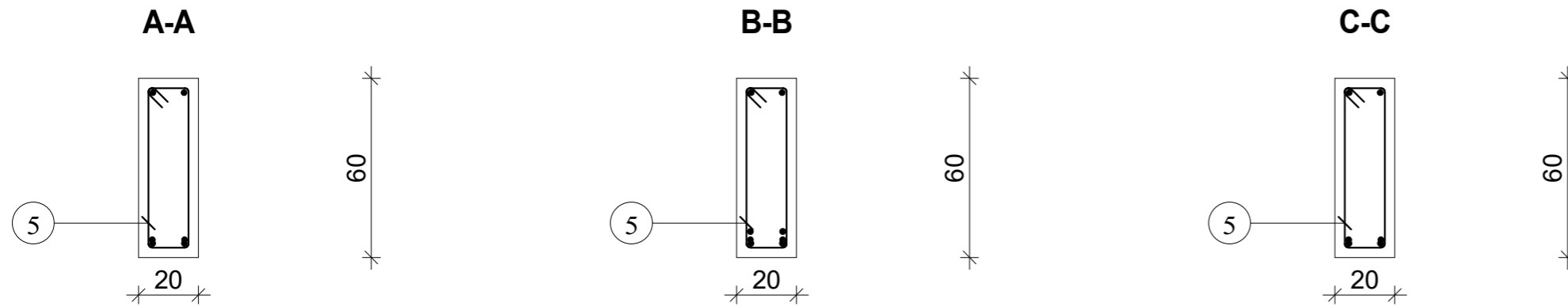
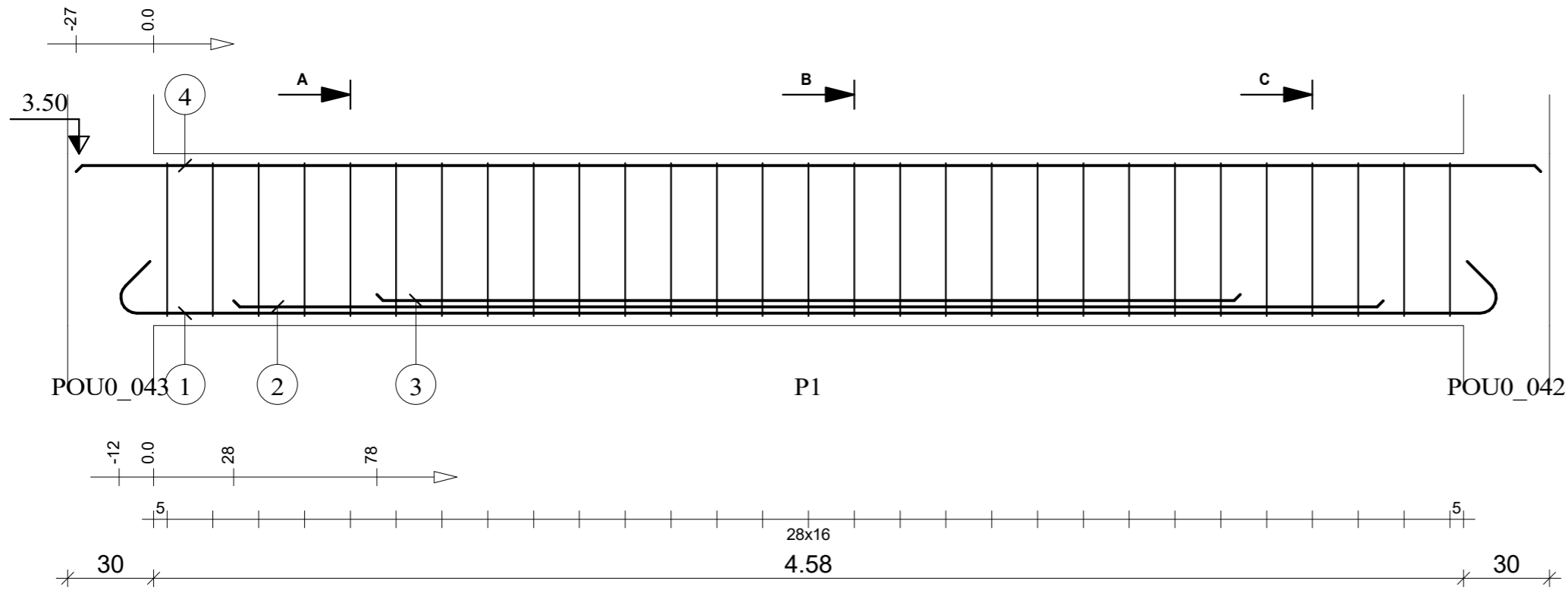
Acier RL 235 = 5.49 kg

Acier HA 400 = 21.9 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature		Code	Forme
①	2HA 12	l=5.20	00	
②	2HA 12	l=4.01	00	
③	2HA 12	l=3.02	00	
④	2HA 8	l=5.12	00	
⑤	2ØRL 6	l=1.48	31	



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:20

Ptr 18(20x60): P1

Section 20x60

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/1

Béton : BETON20 = 0.621 m3

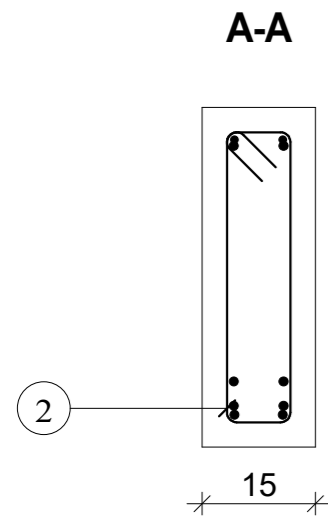
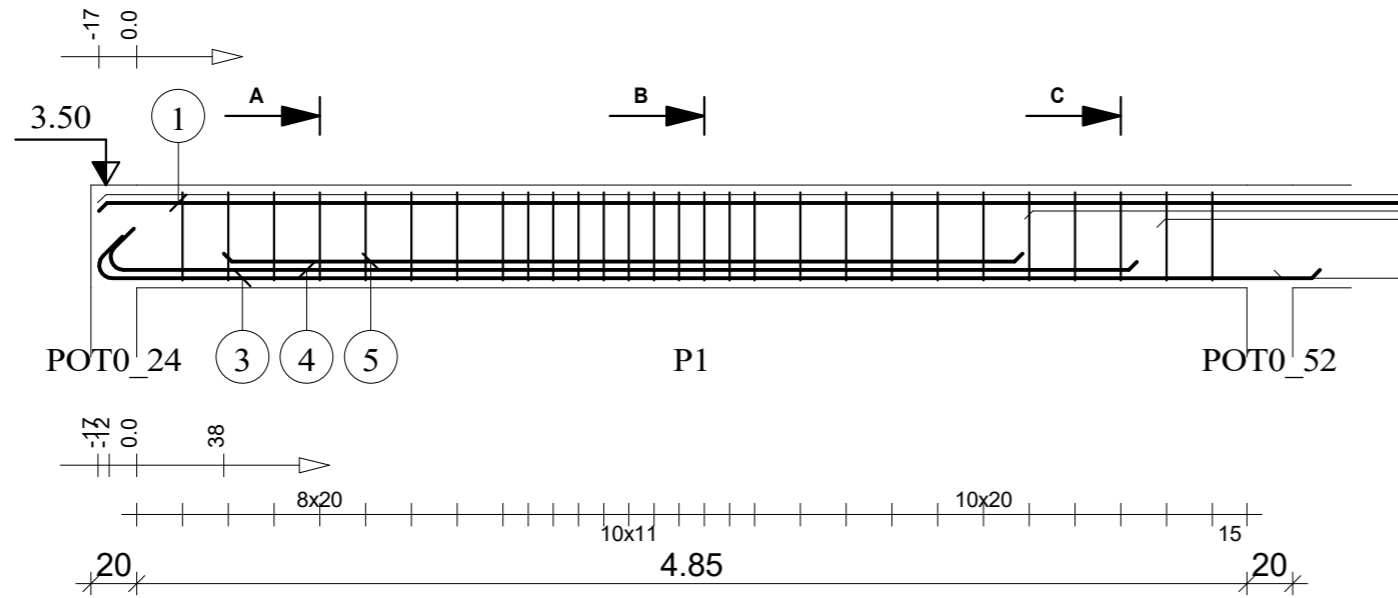
Acier RL 235 = 9.49 kg

Acier HA 400 = 25.7 kg

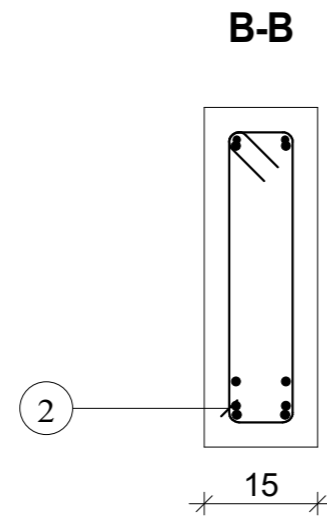
ETAGE COURANT

MINHDU Haut-Nyong_Poutres

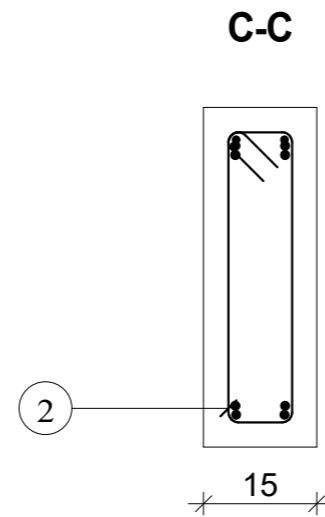
Pos.	Armature	Code	Forme	
①	2HA 12	l=9.02	00	9.02
②	28RL 6	l=1.08	31	
③	2HA 12	l=5.53	00	5.34
④	2HA 12	l=4.68	00	4.49
⑤	2HA 12	l=3.49	00	3.49



45



45



45

Tél.
Fax

Echelle pour la vue 1:33
Echelle pour la section 1:10

Ptr A(15x45): P1
Section 15x45


Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

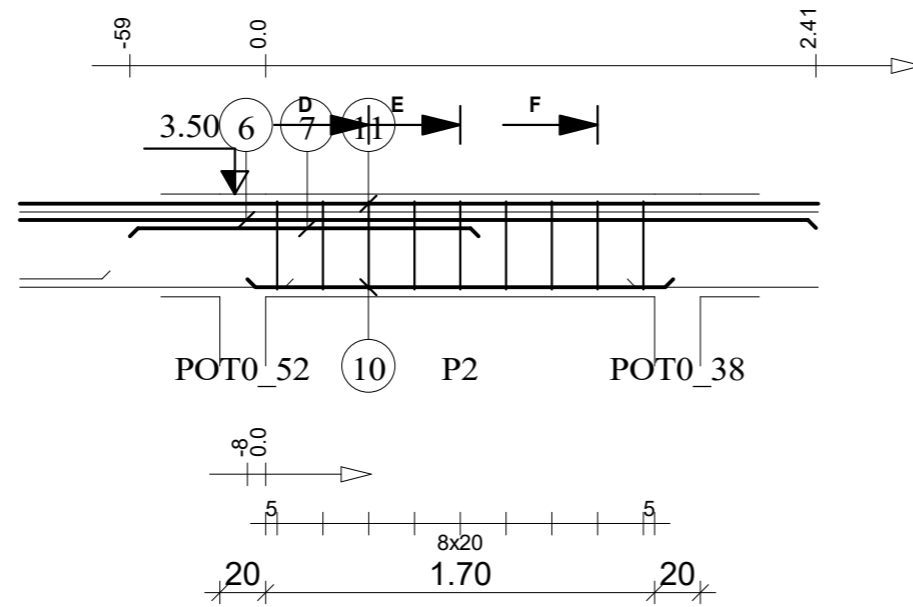
Page 1/4

Béton : BETON20 = 0.348 m3
Acier RL 235 = 6.68 kg
Acier HA 400 = 40.3 kg

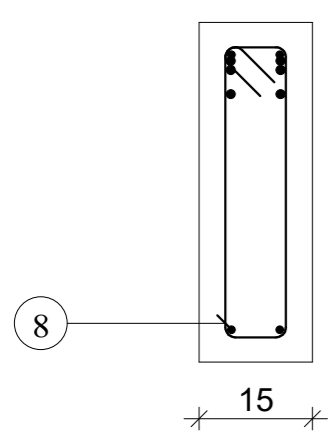
ETAGE COURANT

MINHDU Haut-Nyong_Poutres

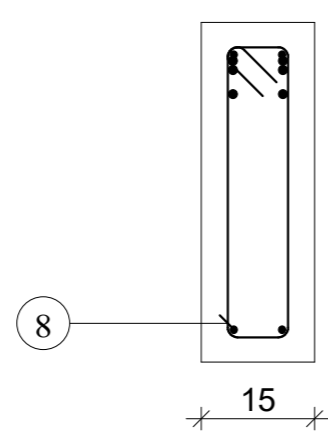
Pos.	Armature	Code	Forme	
⑥	2HA 12	l=3.58	00	3.58
⑦	2HA 12	l=1.52	00	1.52
⑧	9RL 6	l=1.07*	31	
⑩	2HA 8	l=1.86	00	1.86
⑪	2HA 8	l=13.94	00	13.94



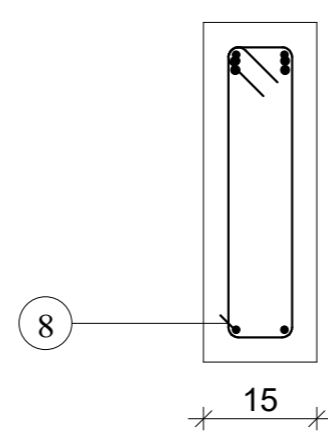
D-D



E-E



F-F



Tél.

Fax

Echelle pour la vue 1:33

Echelle pour la section 1:10

Ptr A(15x45): P2

Section 15x45

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/4

Béton : BETON20 = 0.128 m3

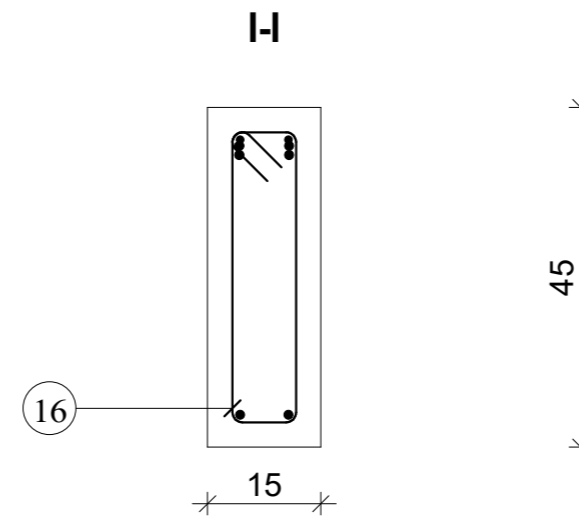
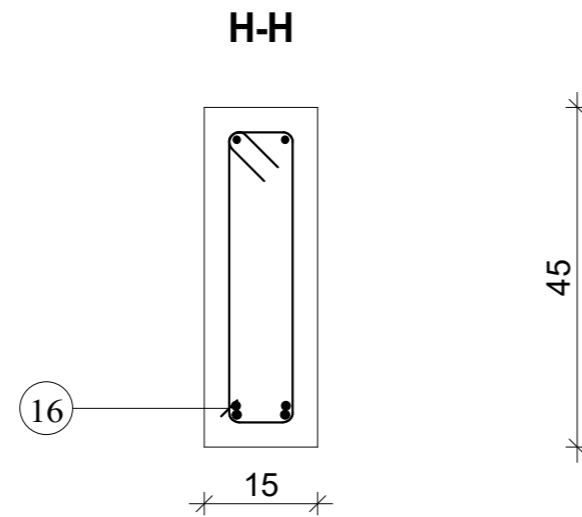
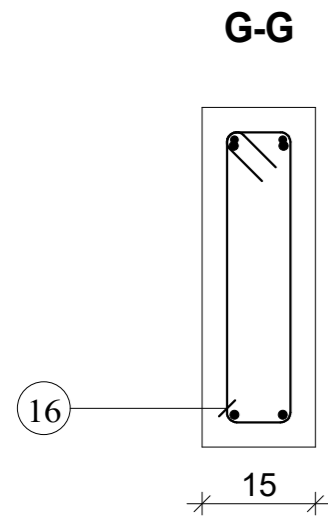
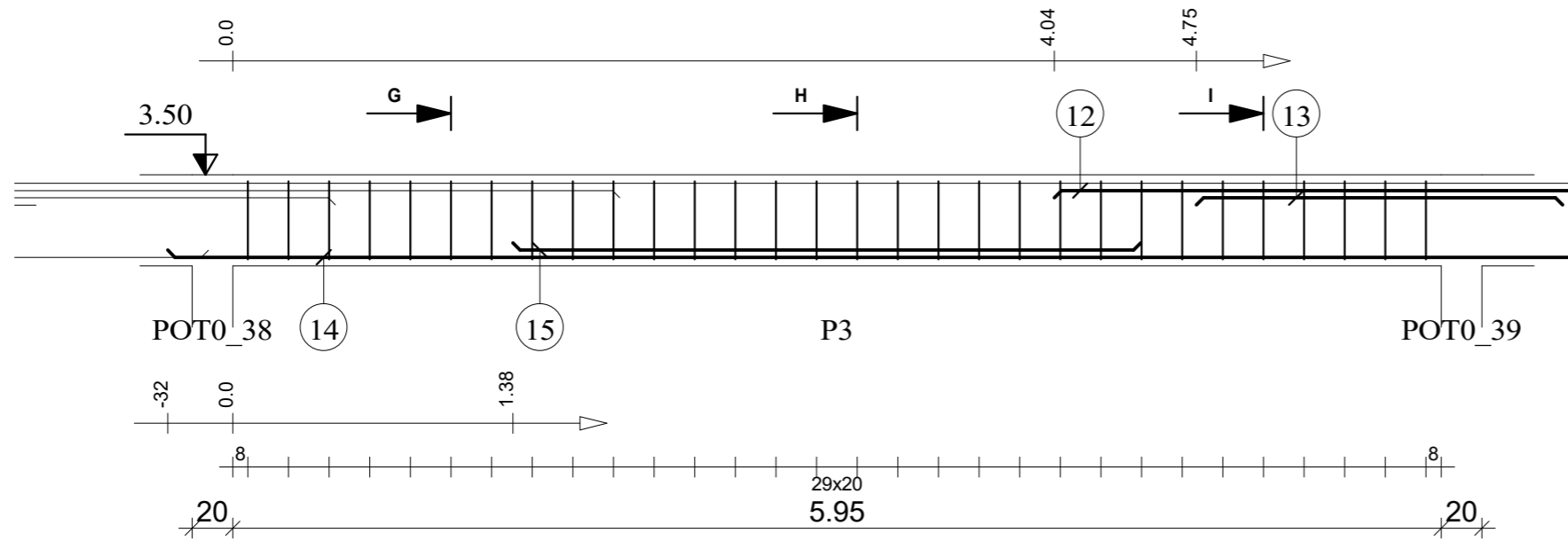
Acier RL 235 = 2.13 kg

Acier HA 400 = 21.5 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature	Code	Forme	
12	2HA 12	l=2.77	00	2.78
13	2HA 12	l=1.80	00	1.80
14	2HA 12	l=7.14	00	7.14
15	2HA 12	l=3.09	00	3.09
16	30RL 6	l=1.08	31	



Tél.

Fax

Echelle pour la vue 1:33

Echelle pour la section 1:10

Ptr A(15x45): P3

Section 15x45

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

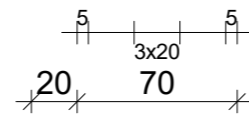
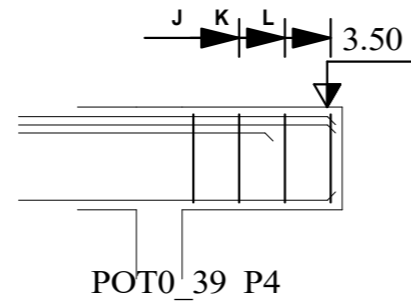
Page 3/4

Béton : BETON20 = 0.415 m3

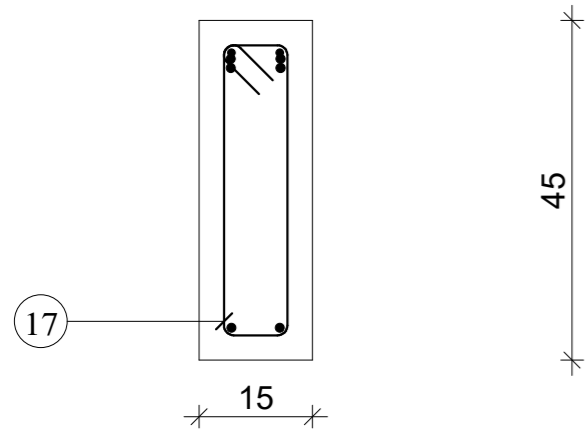
Acier RL 235 = 7.15 kg

Acier HA 400 = 26.3 kg

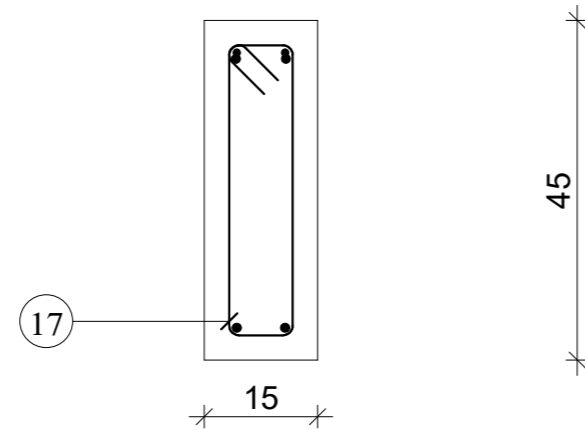
Pos.	Armature	Code	Forme
17	4RL 6	I=1.08	31



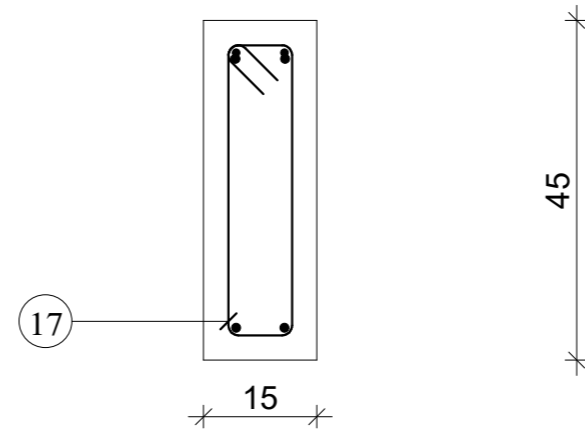
J-J



K-K



L-L



Tél.

Fax

Echelle pour la vue 1:33

Echelle pour la section 1:10

Ptr A(15x45): P4

Section 15x45

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

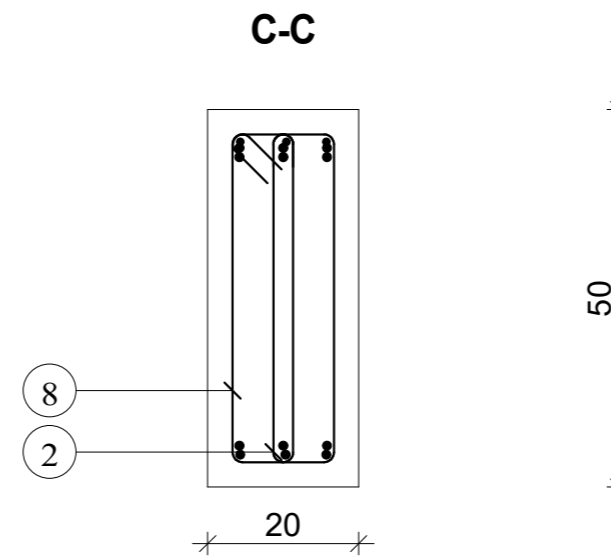
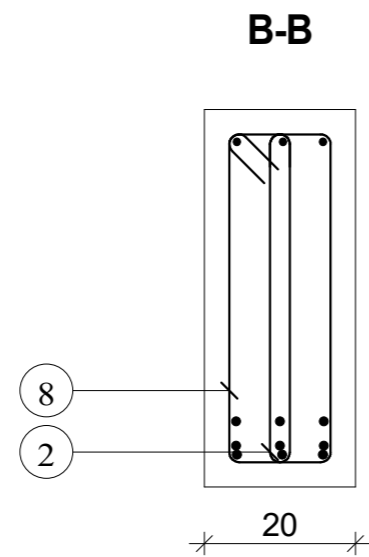
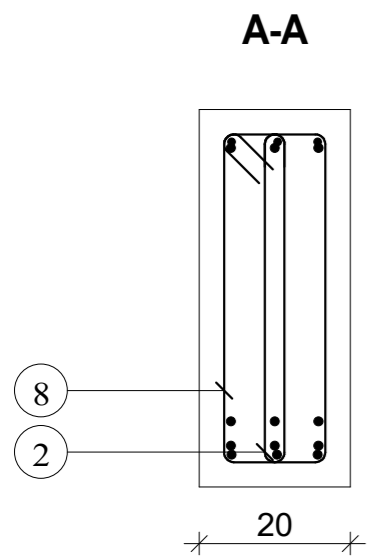
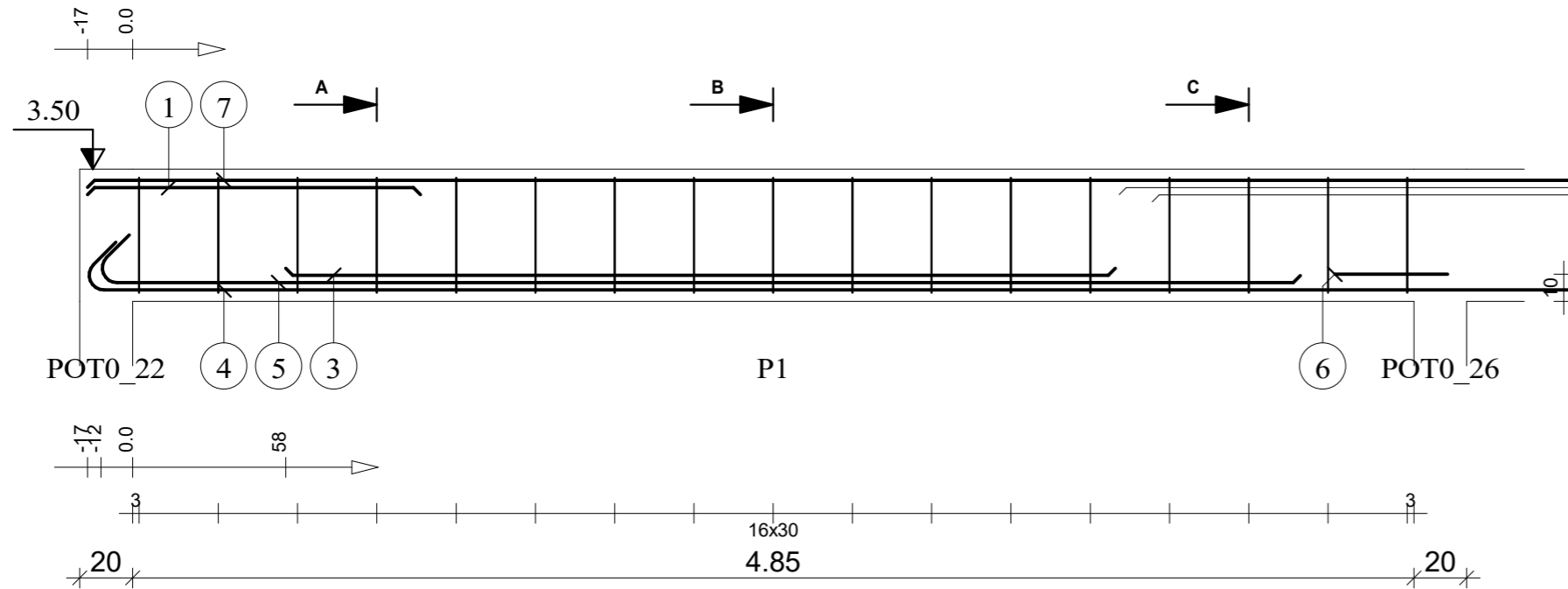
Page 4/4

Béton : BETON20 = 0.054 m³
Acier RL 235 = 0.954 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature		Code	Forme
①	3HA 12	l=1.26	00	1.26
②	17RL 6	l=100		
③	3HA 12	l=3.14	00	3.14
④	3HA 12	l=7.19	00	
⑤	3HA 12	l=4.73	00	
⑥	1RL 6	l=97	21	
⑦	3HA 8	l=7.14	00	7.14
⑧	17RL 6	l=1.28	31	



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

Ptr B(20x50): P1

Section 20x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/2



Béton : BETON20 = 0.515 m³

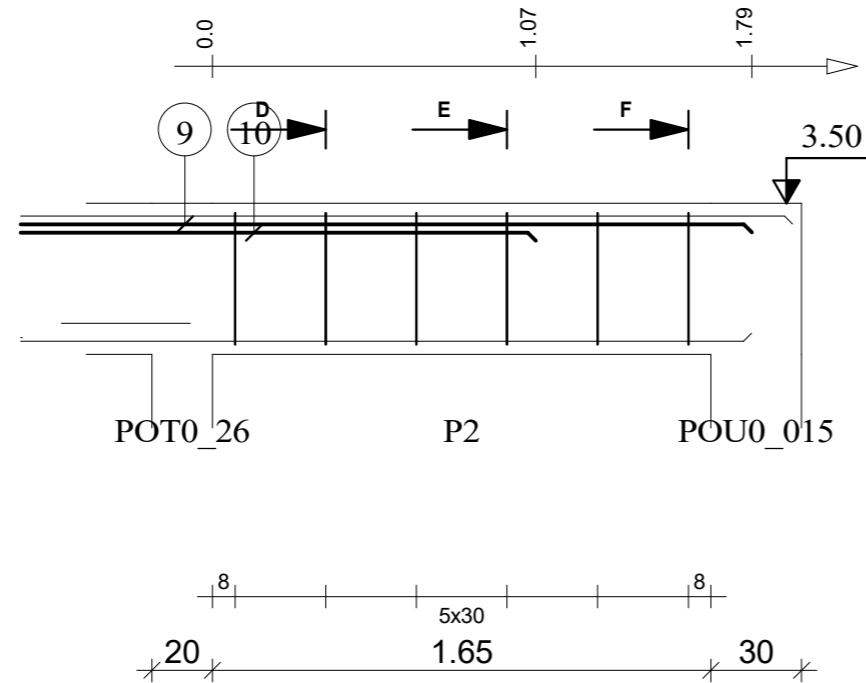
Acier RL 235 = 8.79 kg

Acier HA 400 = 51.9 kg

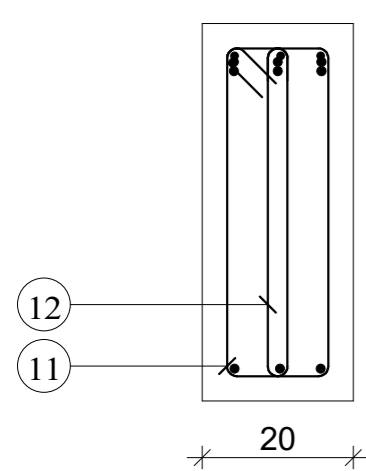
ETAGE COURANT

MINHDU Haut-Nyong_Poutres

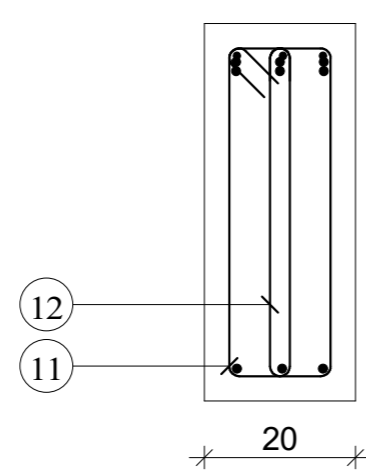
Pos.	Armature	Code	Forme	
9	3HA 12	l=3.10	00	3.10
10	3HA 12	l=2.26	00	2.26
11	6RL 6	l=1.28	31	
12	6RL 6	l=100		



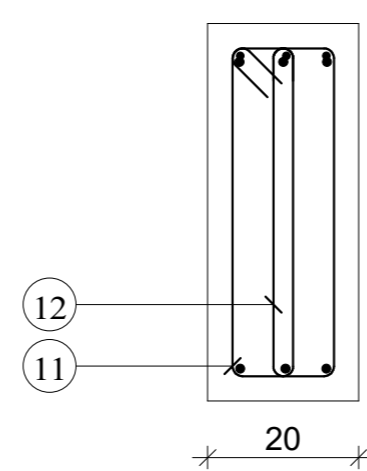
D-D



E-E



F-F



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

Ptr B(20x50): P2

Section 20x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/2

Béton : BETON20 = 0.205 m³

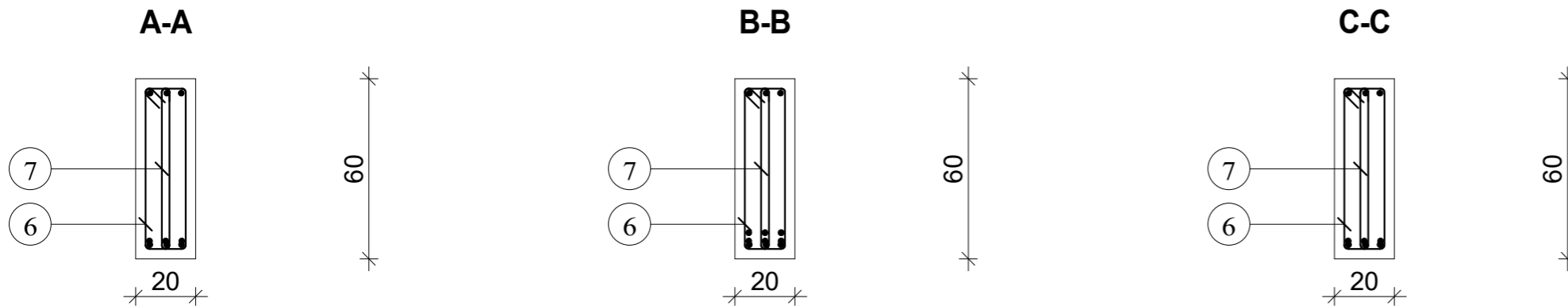
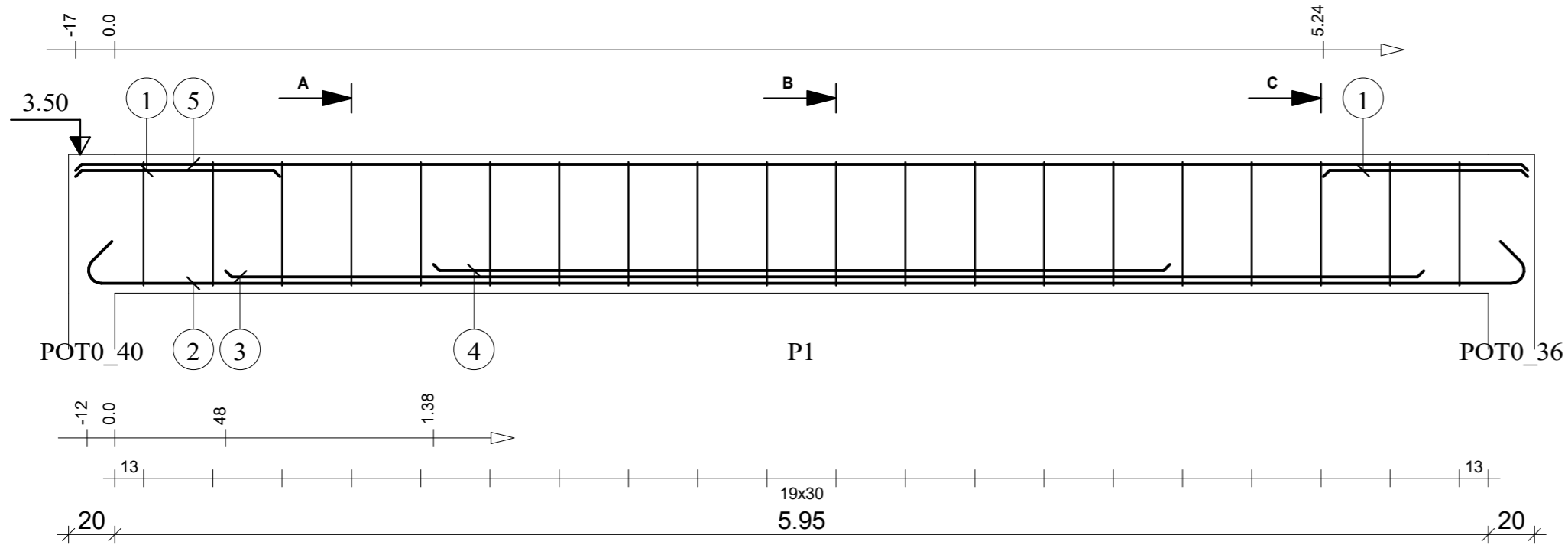
Acier RL 235 = 3.03 kg

Acier HA 400 = 14.3 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature	Code	Forme
①	6HA 12	l=89	89
②	3HA 12	l=6.61	6.23
③	3HA 12	l=5.19	5.19
④	3HA 12	l=3.19	3.19
⑤	3HA 8	l=6.29	6.29
⑥	20RL 6	l=1.48	14 54
⑦	20RL 6	l=1.20	14 54



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:20

Ptr C(20x60): P1

Section 20x60

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/1

Béton : BETON20 = 0.762 m3

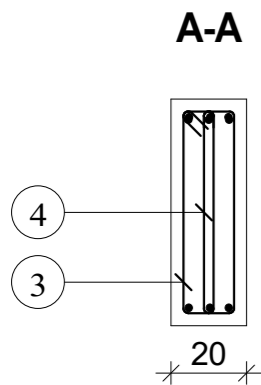
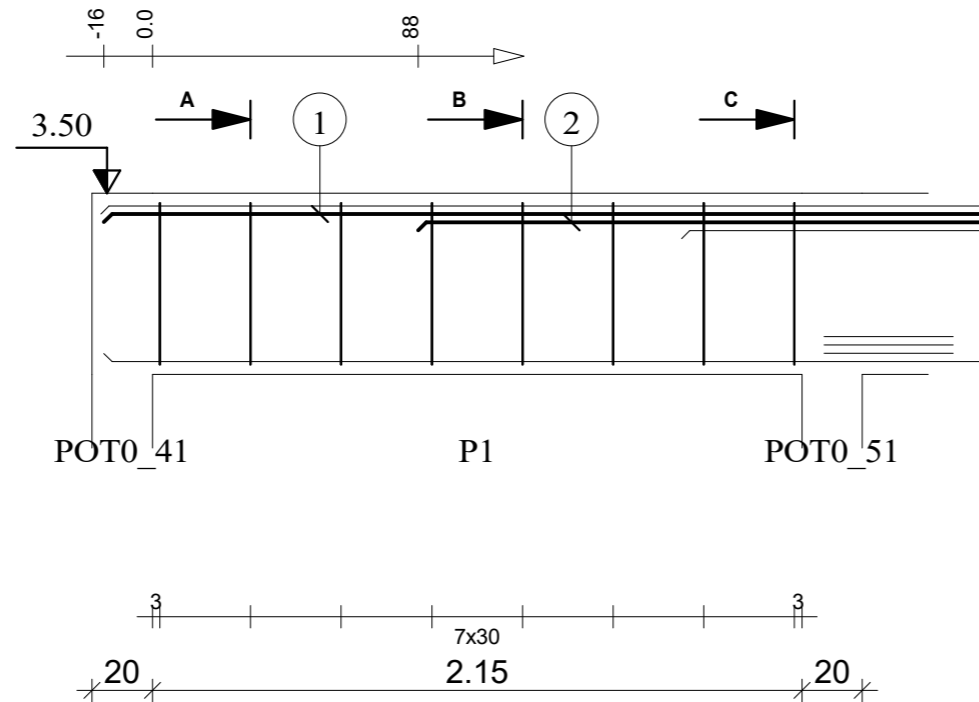
Acier RL 235 = 11.9 kg

Acier HA 400 = 52.1 kg

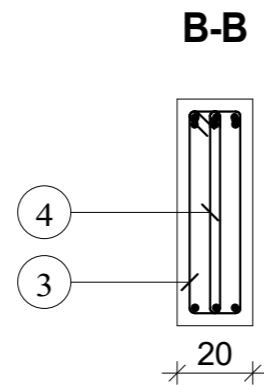
ETAGE COURANT

MINHDU Haut-Nyong_Poutres

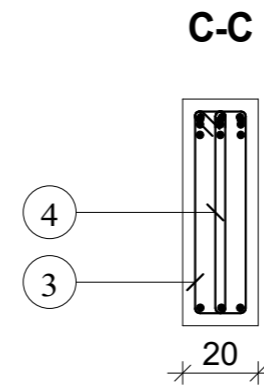
Pos.	Armature	Code	Forme
①	3HA 12	l=4.42	00 4.42
②	3HA 12	l=2.58	00 2.58
③	8RL 6	l=1.48	31 14 8 54
④	8RL 6	l=1.20	31 14 8 54



60



60



60

Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:20

Ptr E(20x60): P1

Section 20x60

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/2

Béton : BETON20 = 0.294 m³

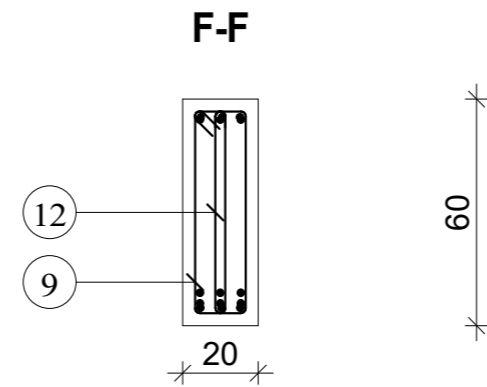
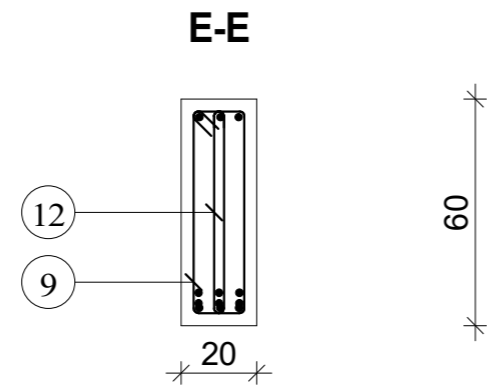
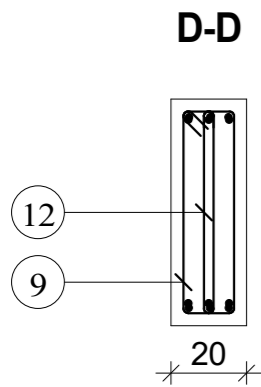
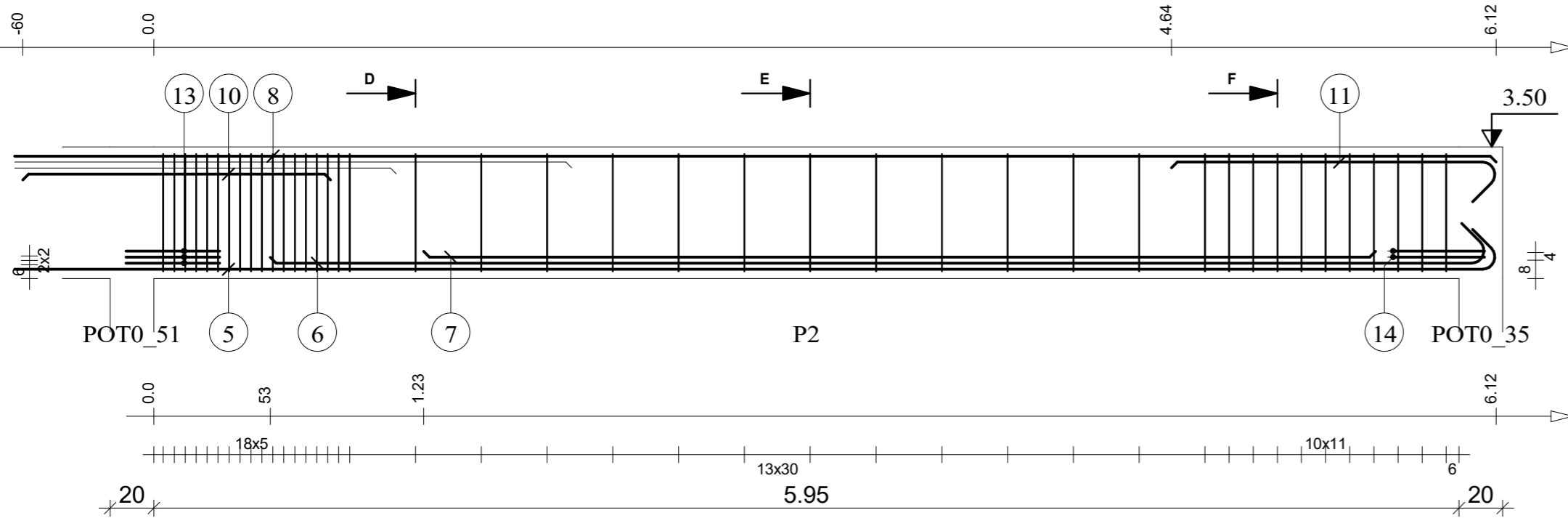
Acier RL 235 = 4.75 kg

Acier HA 400 = 18.6 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature	Code	Forme
5	3HA 12	l=8.82	00
6	3HA 12	l=5.73	00
7	3HA 12	l=4.34	00
8	3HA 8	l=8.64	00
9	41RL 6	l=1.48	31
10	3HA 12	l=1.40	00
11	3HA 12	l=1.67	00
12	41RL 6	l=1.20	
13	3RL 6	l=97	21
14	2RL 6	l=95	21



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:20

Ptr E(20x60): P2

Section 20x60

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/2

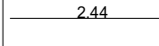
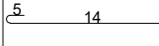

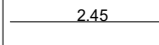

Béton : BETON20 = 0.75 m3

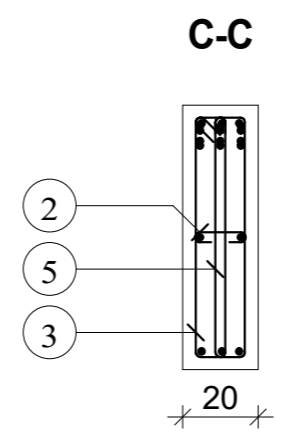
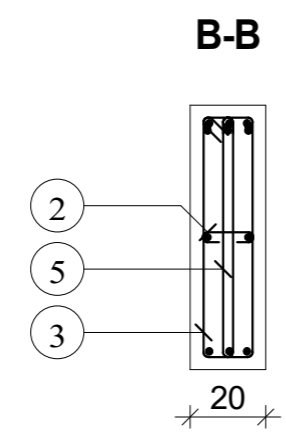
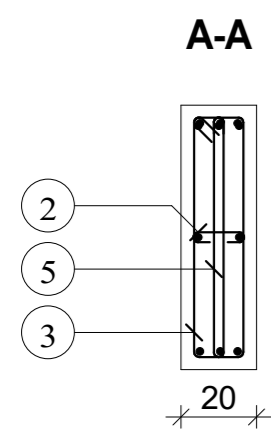
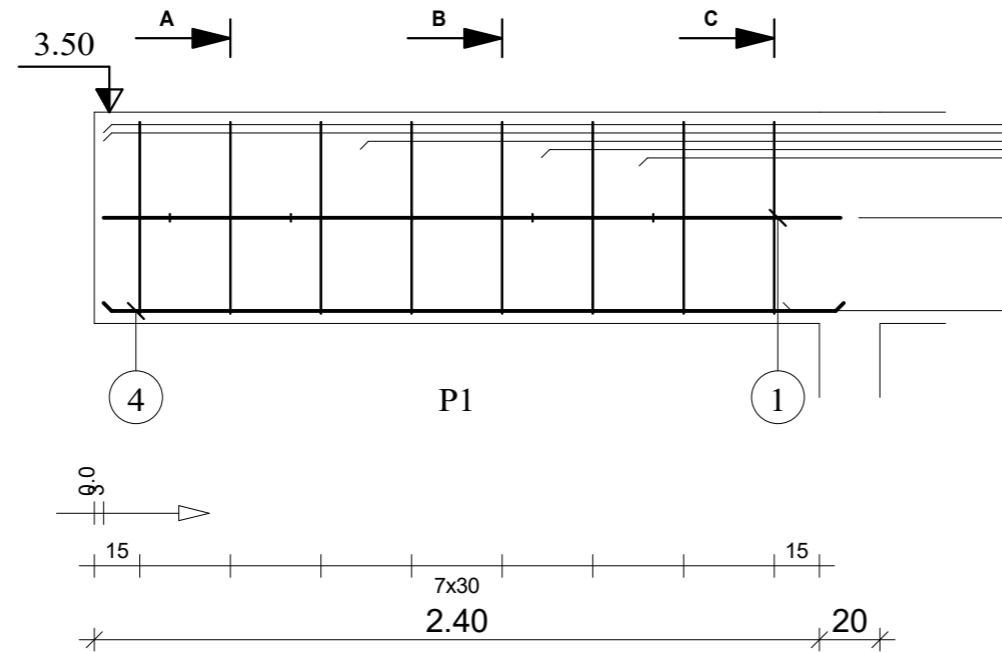
Acier RL 235 = 25.4 kg

Acier HA 400 = 68.7 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature	Code	Forme
①	2RL 10	l=2.44	00 
②	6RL 6	l=25	00 
③	8RL 6	l=1.67	31 
④	3HA 8	l=2.45	00 
⑤	8RL 6	l=1.40	



Tél.
Fax

Echelle pour la vue 1:25
Echelle pour la section 1:20

Ptr G(20x70): P1
Section 20x70

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

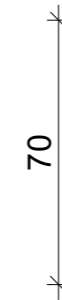
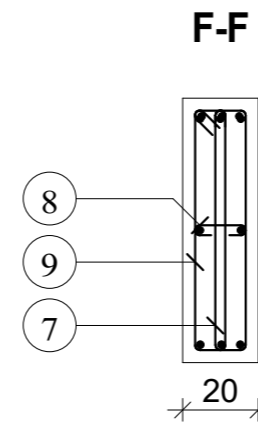
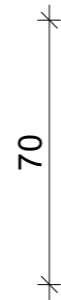
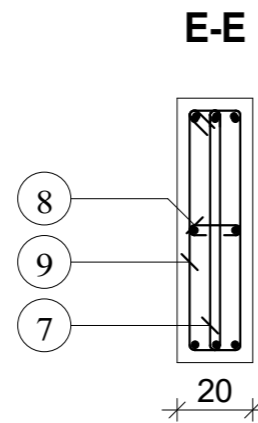
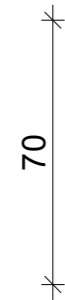
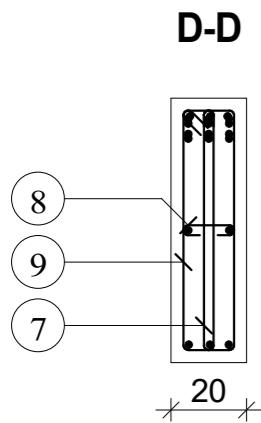
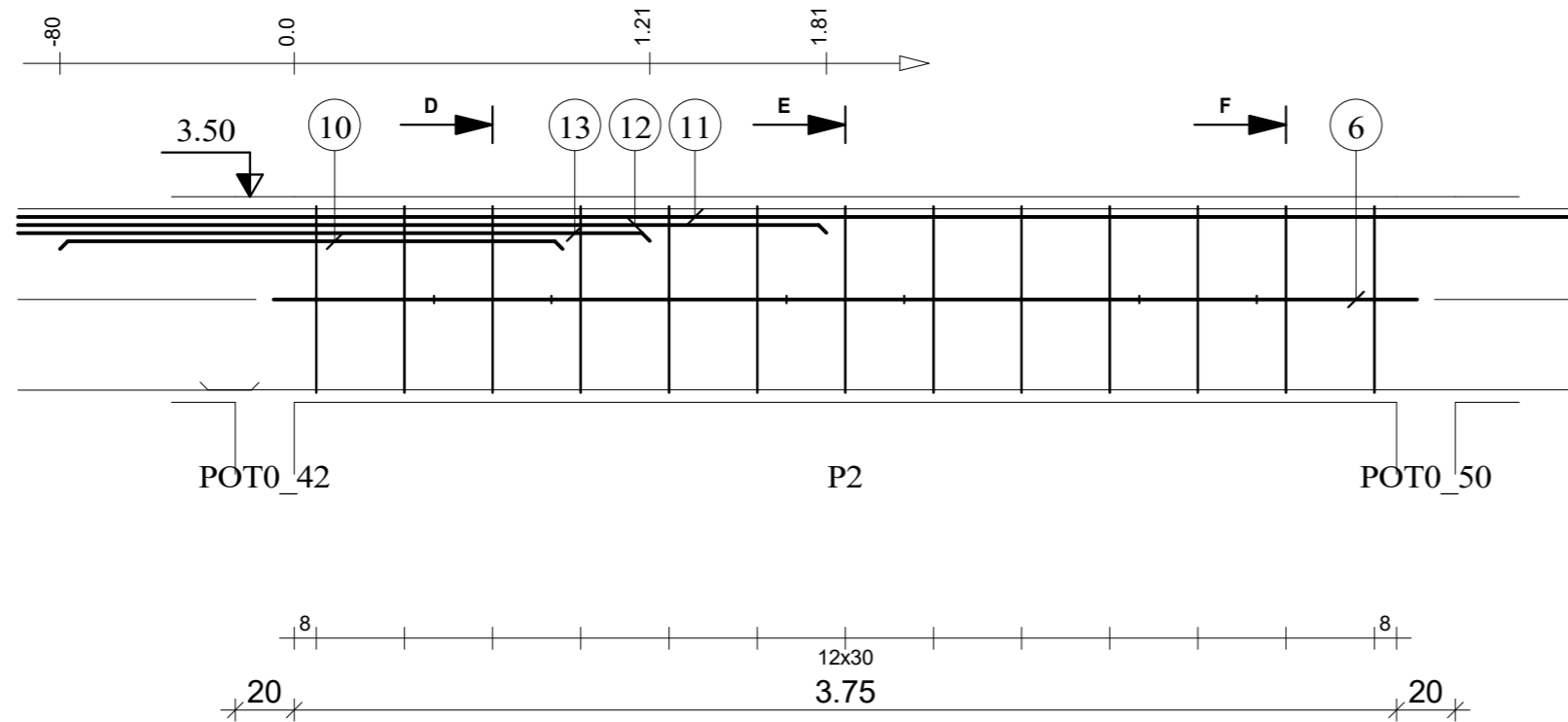
Page 1/5

Béton : BETON20 = 0.35 m3
Acier RL 235 = 8.78 kg
Acier HA 400 = 2.9 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature	Code	Forme
⑥	2RL 10	l=3.89	00
⑦	13RL 6	l=1.40	
⑧	10RL 6	l=25	00
⑨	13RL 6	l=1.68	31
⑩	3HA 12	l=1.71	00
⑪	3HA 12	l=8.38	00
⑫	3HA 12	l=3.53	00
⑬	3HA 12	l=2.33	00



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:20

Ptr G(20x70): P2

Section 20x70

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/5

Béton : BETON20 = 0.553 m3

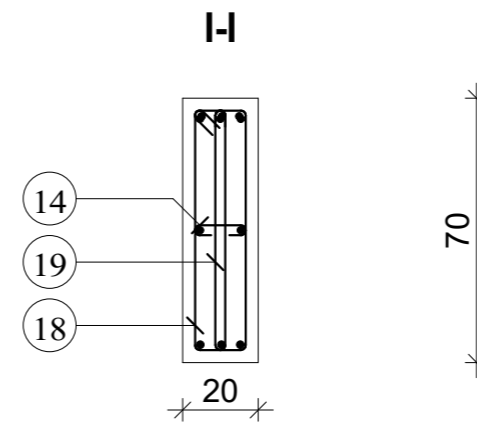
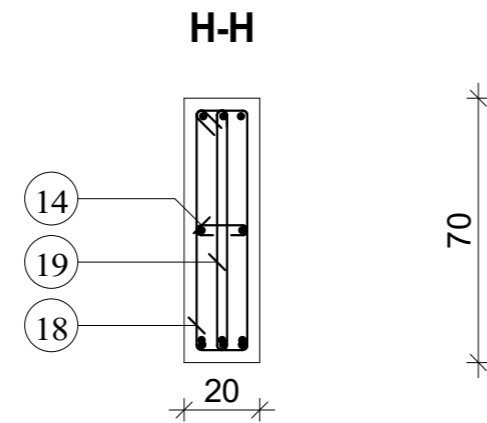
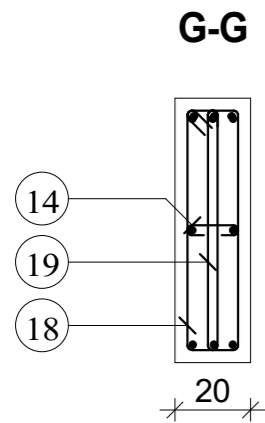
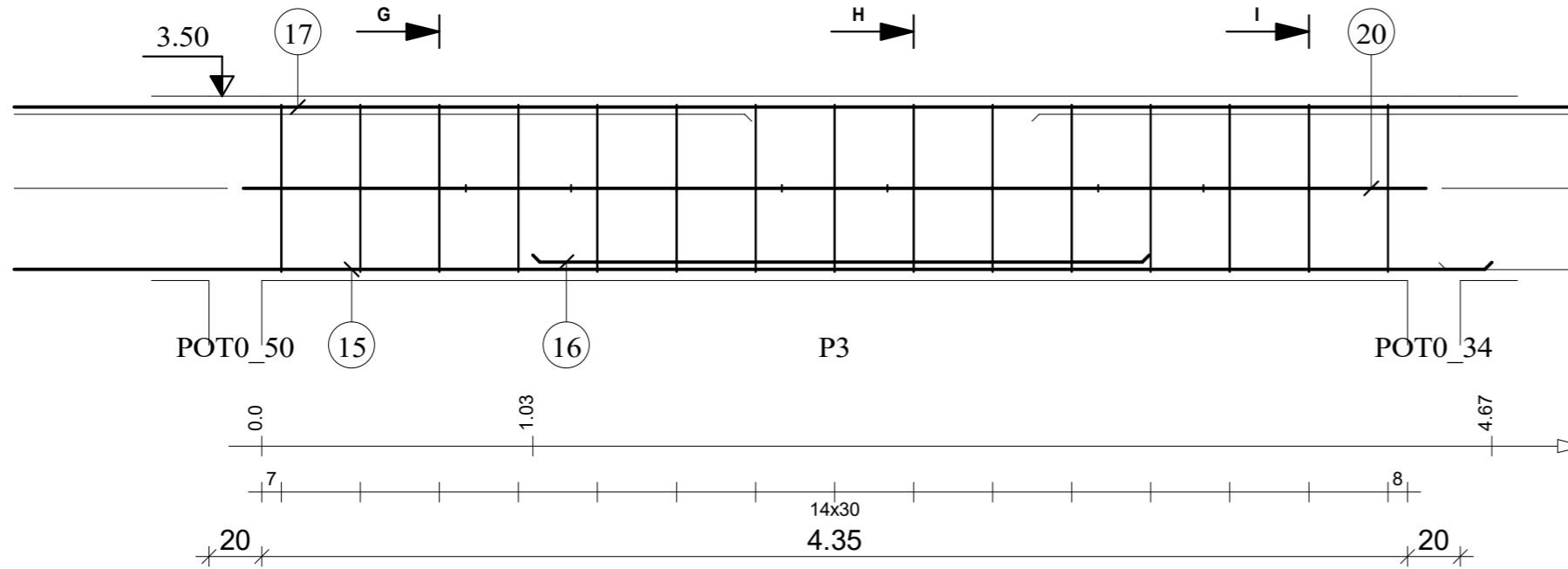
Acier RL 235 = 14.2 kg

Acier HA 400 = 42.5 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature	Code	Forme
14	10RL 6	l=25	00
15	3HA 12	l=8.94	00
16	3HA 12	l=2.34	00
17	3HA 8	l=17.99	00
18	15RL 6	l=1.68	31
19	15RL 6	l=1.40	
20	2RL 10	l=4.49	00



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:20

Ptr G(20x70): P3

Section 20x70

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/5

Béton : BETON20 = 0.637 m3

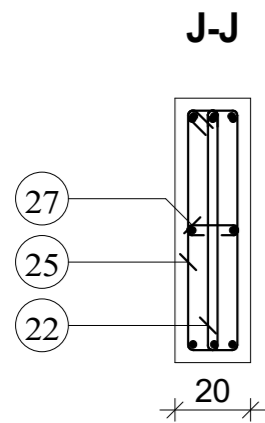
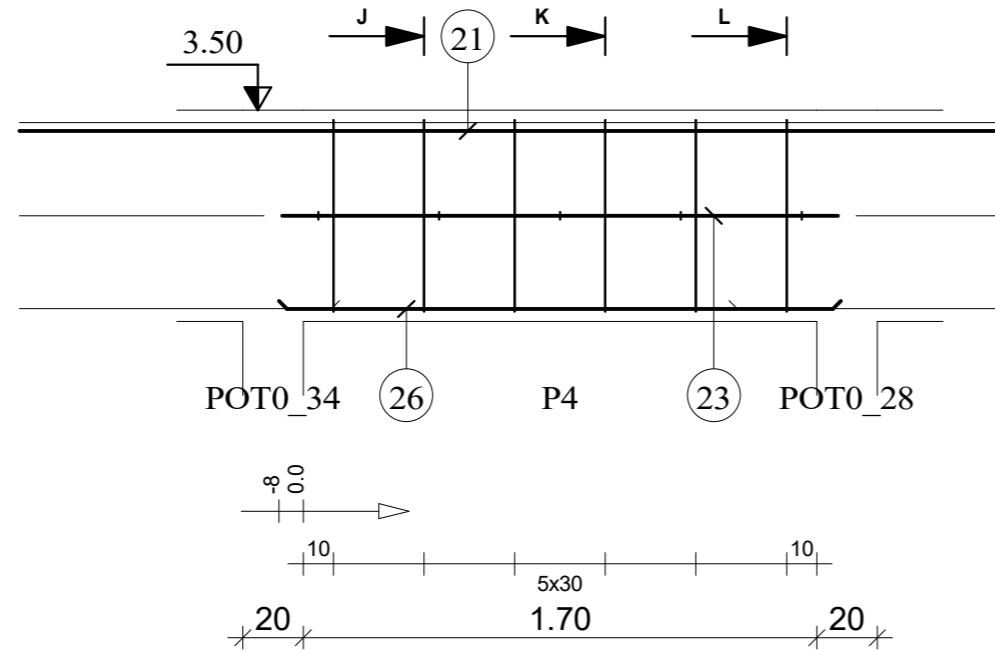
Acier RL 235 = 16.3 kg

Acier HA 400 = 51.3 kg

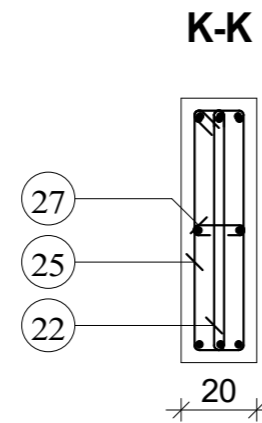
ETAGE COURANT

MINHDU Haut-Nyong_Poutres

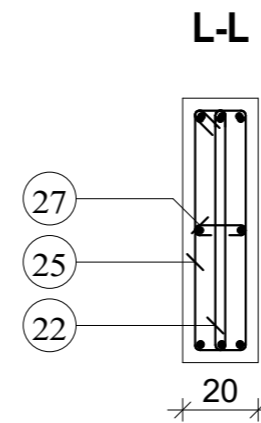
Pos.	Armature		Code	Forme
21	3HA 12	l=5.59	00	5.58
22	6RL 6	l=1.40		0.0
23	2RL 10	l=1.84	00	1.84
25	6RL 6	l=1.67*	31	14
26	3HA 8	l=1.86	00	1.86
27	5RL 6	l=25	00	14



70



70



70

Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:20

Ptr G(20x70): P4

Section 20x70

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 4/5

Béton : BETON20 = 0.266 m3

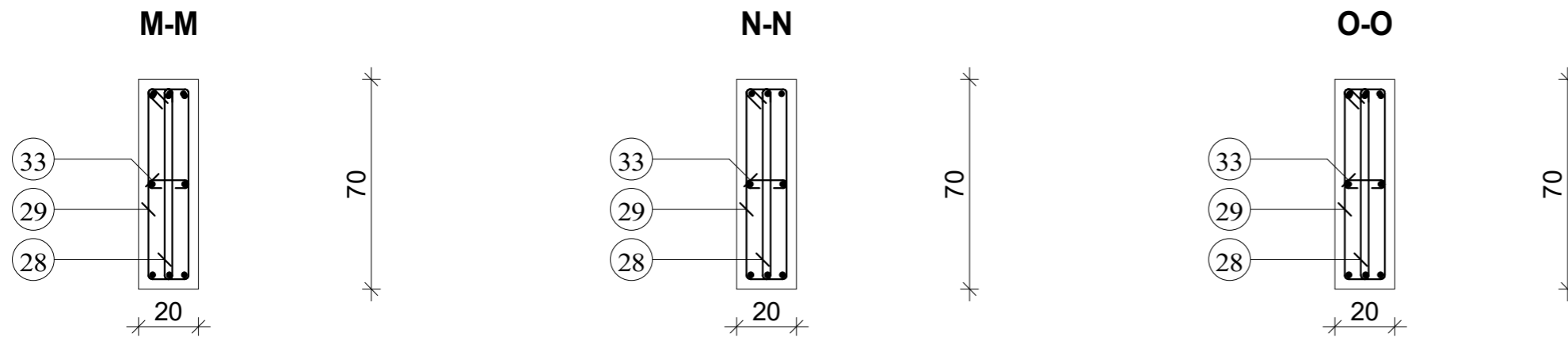
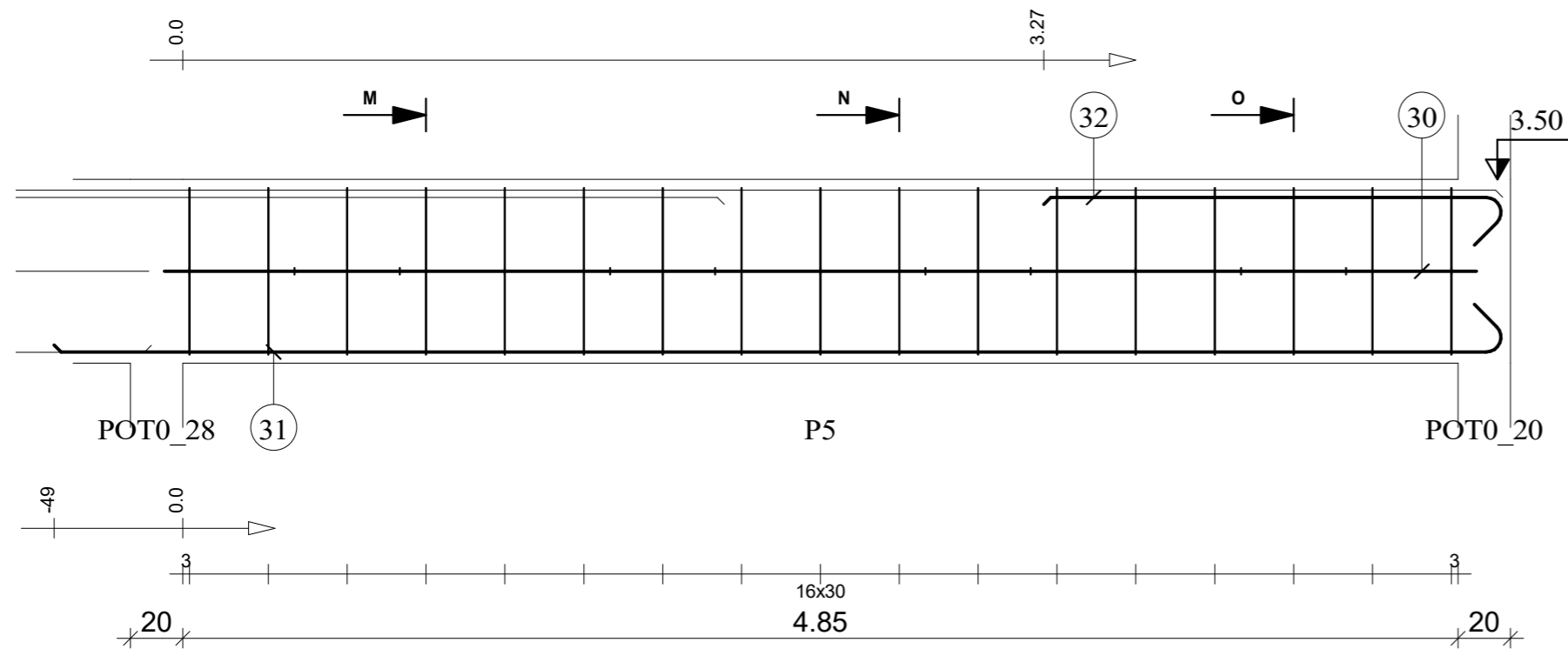
Acier RL 235 = 6.63 kg

Acier HA 400 = 17.1 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature	Code	Forme
28	17RL 6	l=1.40	
29	17RL 6	l=1.68	31
30	2RL 10	l=4.99	00
31	3HA 12	l=5.70	00
32	3HA 12	l=1.94	00
33	13RL 6	l=25	00



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:20

Ptr G(20x70): P5

Section 20x70

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 5/5

Béton : BETON20 = 0.721 m3

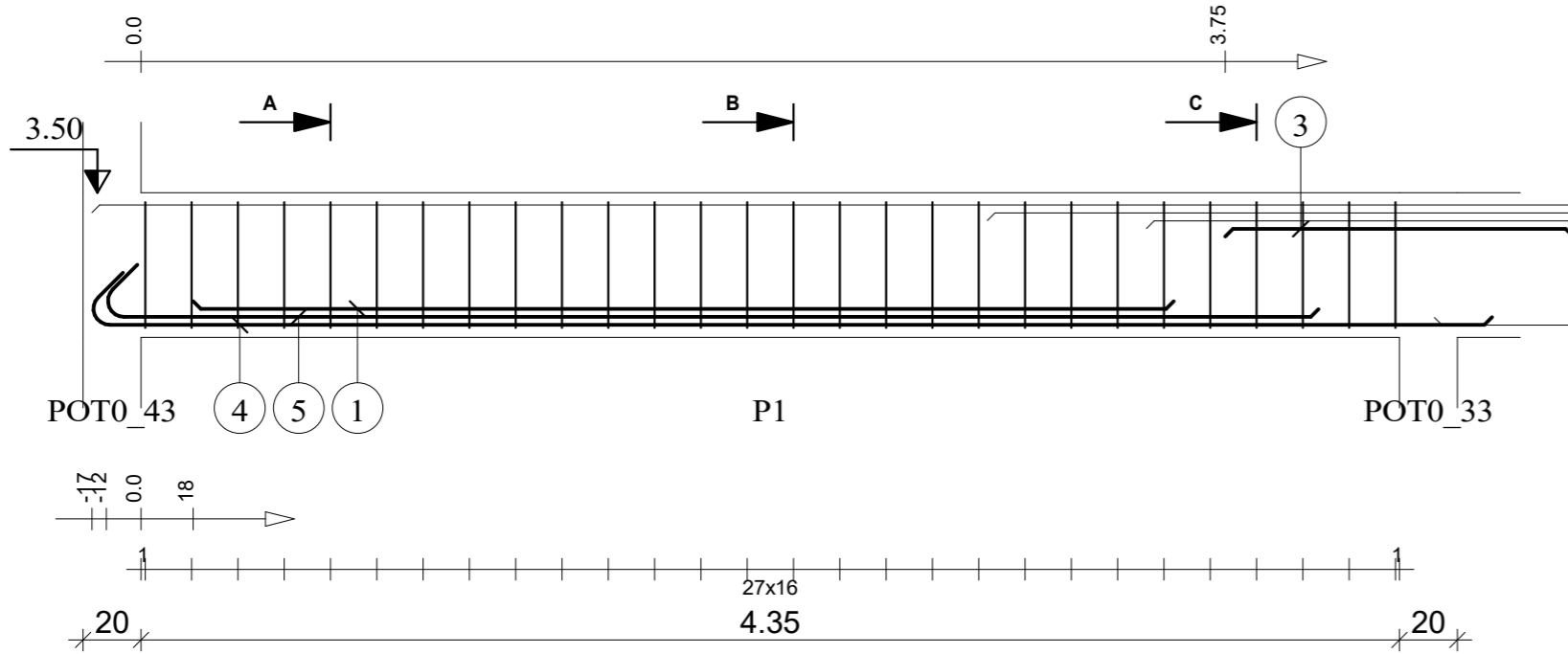
Acier RL 235 = 18.5 kg

Acier HA 400 = 20.3 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

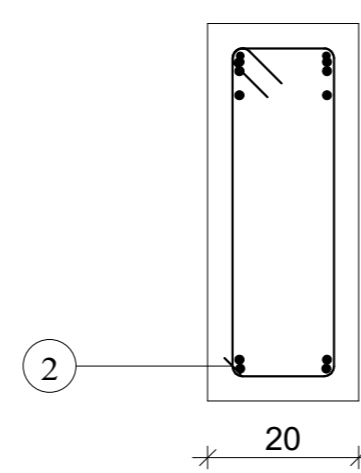
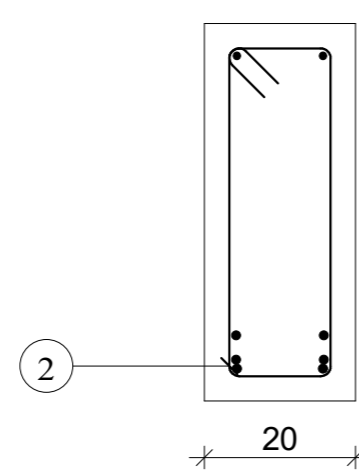
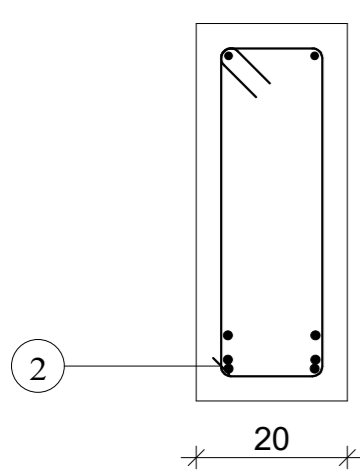
Pos.	Armature		Code	Forme
①	2HA 12	l=3.39	00	3.39
②	28RL 6	l=1.28	31	
③	2HA 12	l=1.20	00	1.20
④	2HA 12	l=5.03	00	
⑤	2HA 12	l=4.38	00	



A-A

B-B

C-C



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

Ptr H(20x50): P1

Section 20x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/3

Béton : BETON20 = 0.465 m³

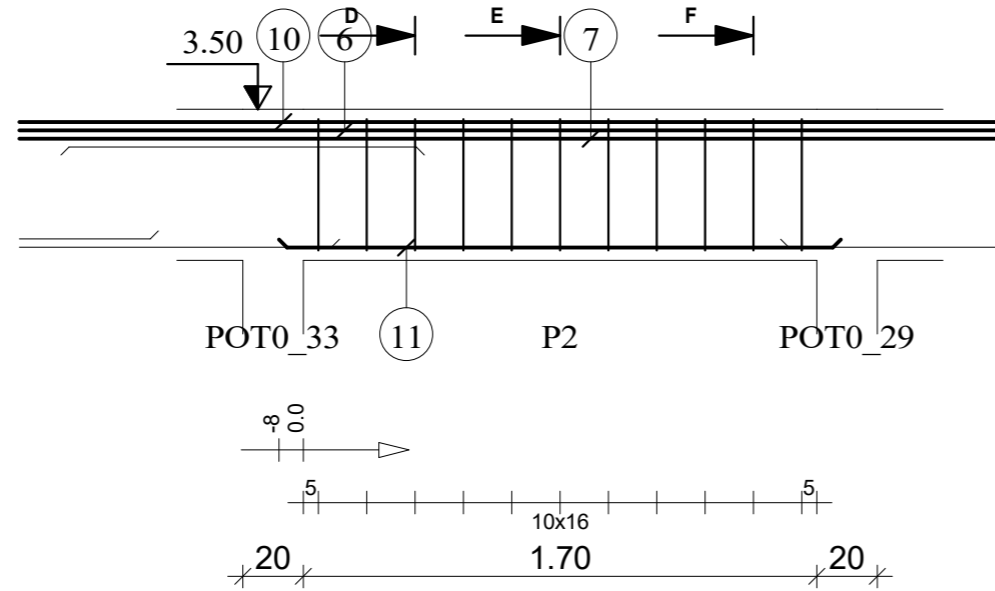
Acier RL 235 = 7.92 kg

Acier HA 400 = 24.9 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

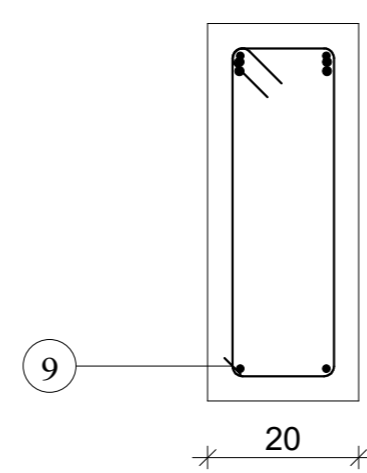
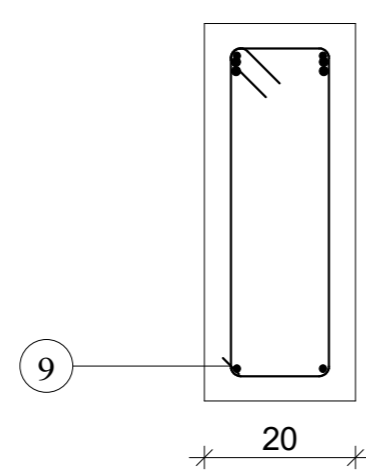
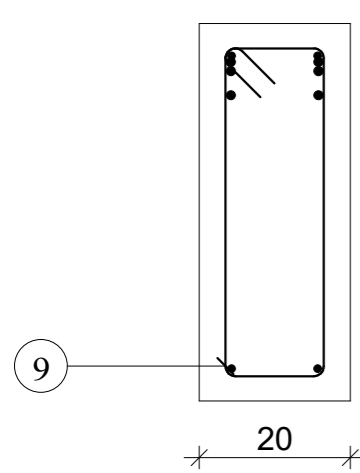
Pos.	Armature		Code	Forme
⑥	2HA 12	l=5.10	00	5.10
⑦	2HA 12	l=3.95	00	3.95
⑨	11RL 6	l=1.27*	31	
⑩	2HA 8	l=11.64	00	11.64
⑪	2HA 8	l=1.86	00	1.86



D-D

E-E

F-F



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

Ptr H(20x50): P2

Section 20x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/3

Béton : BETON20 = 0.19 m3

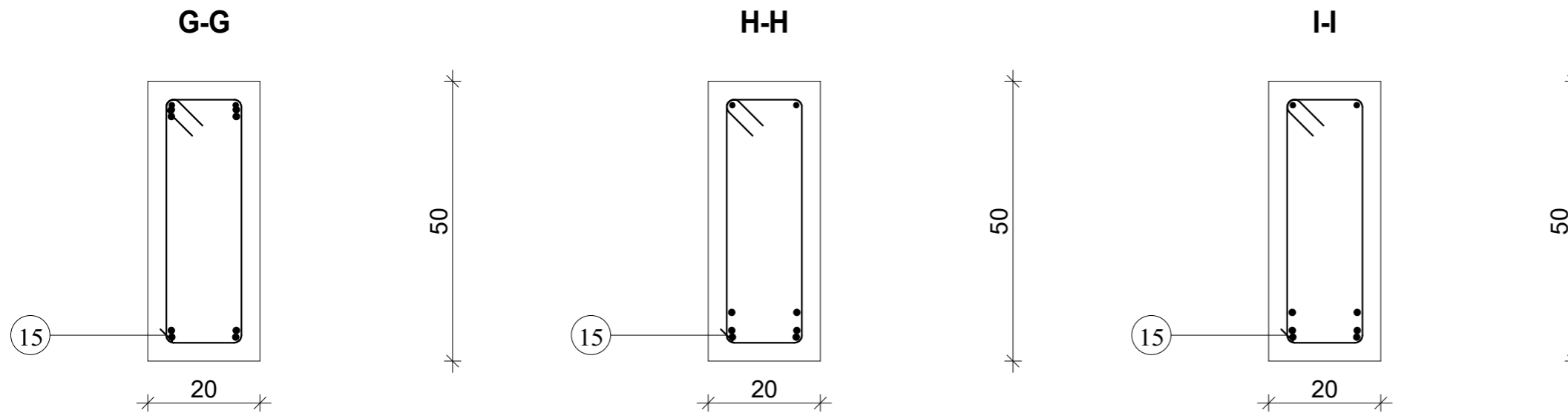
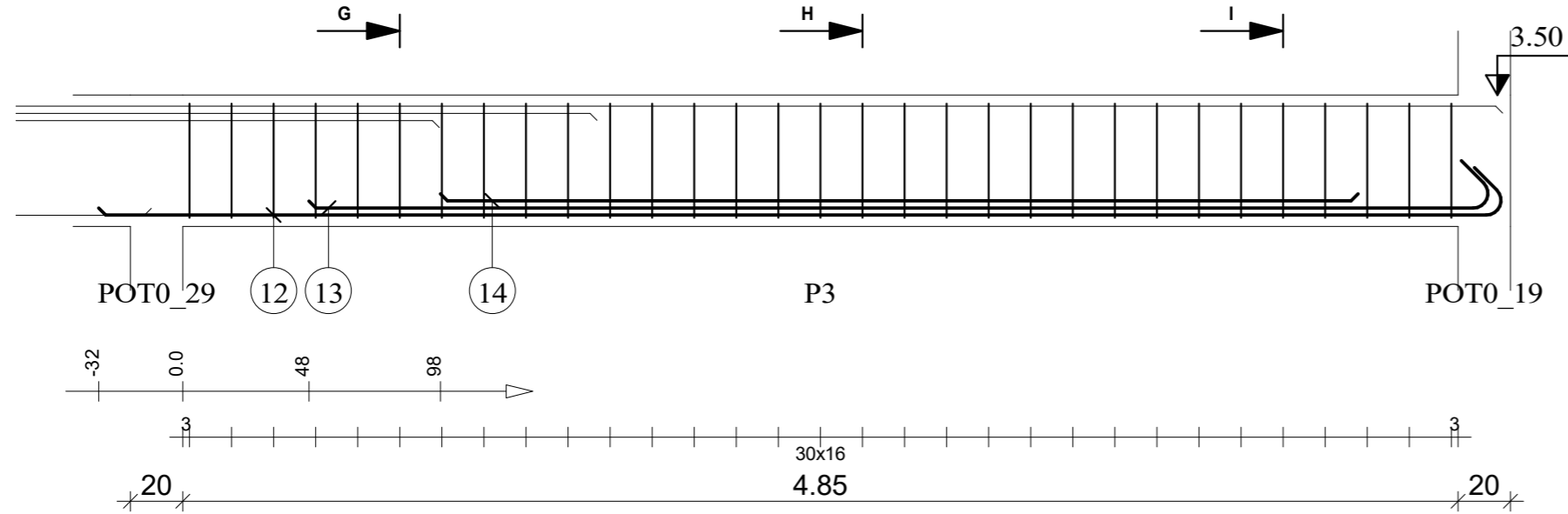
Acier RL 235 = 3.1 kg

Acier HA 400 = 26.7 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature		Code	Forme
⑫	2HA 12	l=5.53	00	5.34
⑬	2HA 12	l=4.68	00	4.49
⑭	2HA 12	l=3.49	00	3.49
⑮	31RL 6	l=1.28	31	14 8



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

Ptr H(20x50): P3

Section 20x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/3

Béton : BETON20 = 0.515 m3

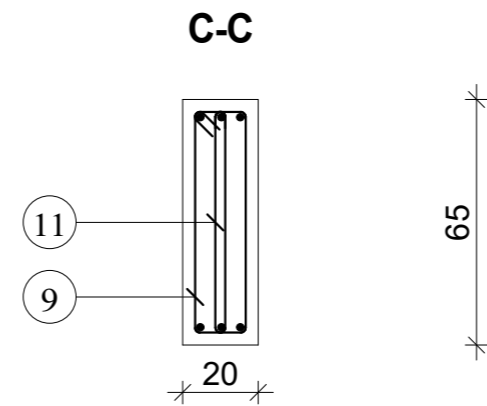
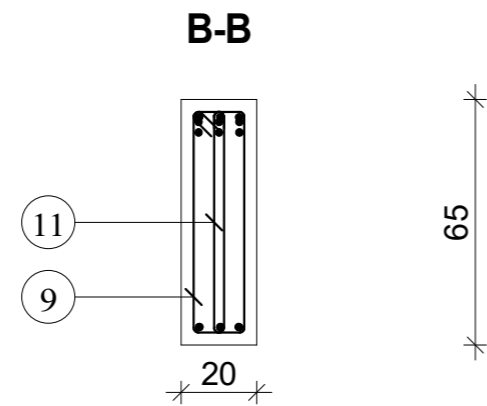
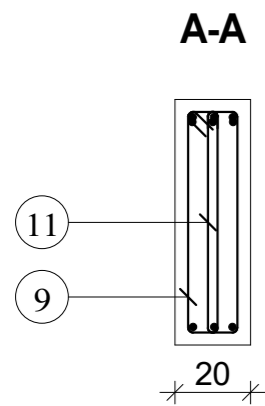
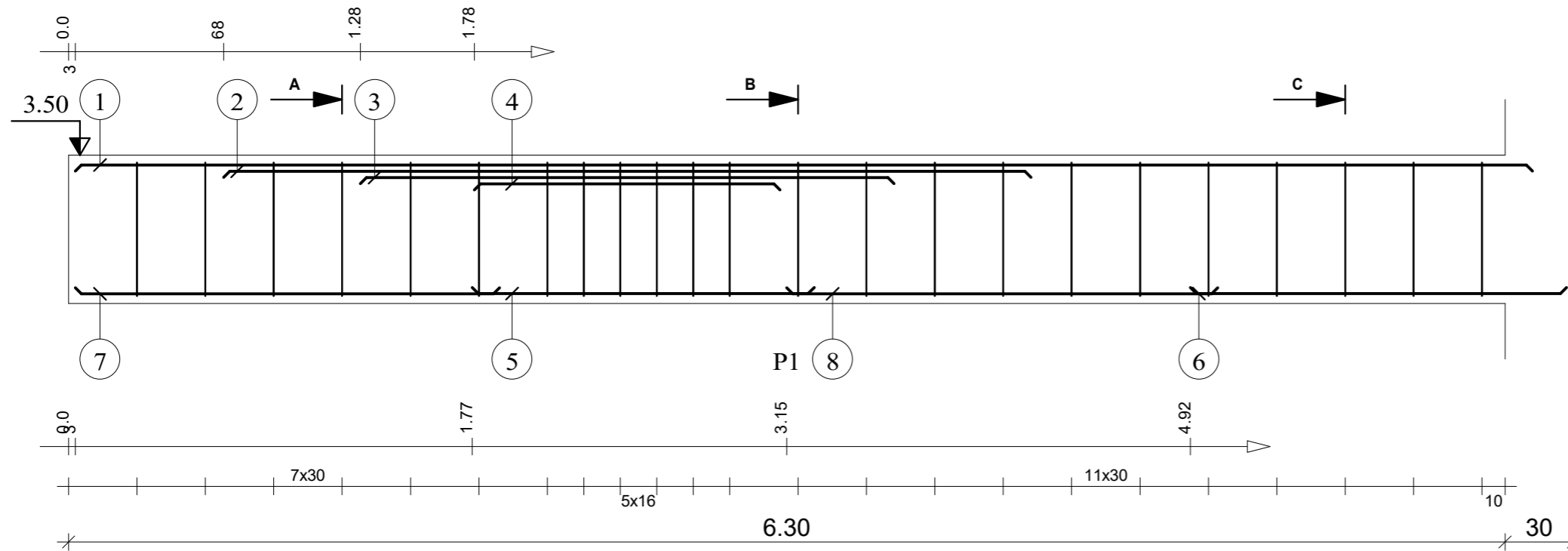
Acier RL 235 = 8.77 kg

Acier HA 400 = 24.3 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature	Code	Forme
①	3HA 12	l=6.39	00
②	3HA 12	l=3.54	00
③	3HA 12	l=2.34	00
④	3HA 12	l=1.34	00
⑤	3HA 12	l=1.50	00
⑥	3HA 12	l=1.65	00
⑦	3HA 8	l=1.86	00
⑧	3HA 8	l=1.89	00
⑨	23RL 6	l=1.57*	31
⑪	23RL 6	l=1.30	



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:20

Ptr I(20x65): P1

Section 20x65

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/1

Béton : BETON20 = 0.858 m3

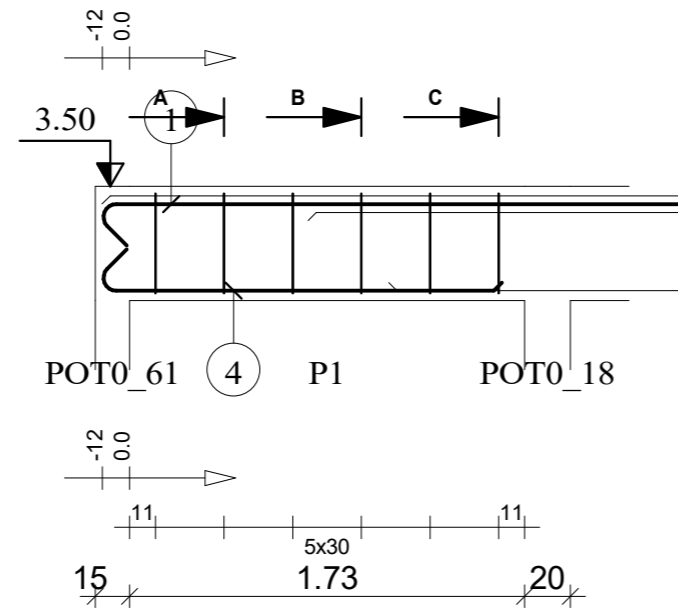
Acier RL 235 = 14.6 kg

Acier HA 400 = 49.1 kg

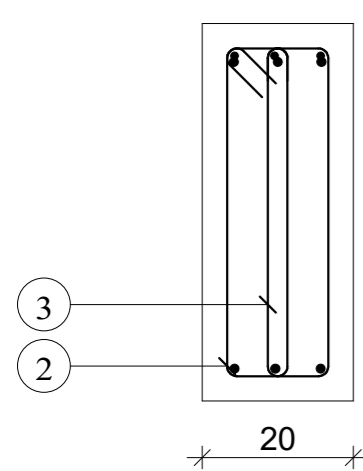
ETAGE COURANT

MINHDU Haut-Nyong_Poutres

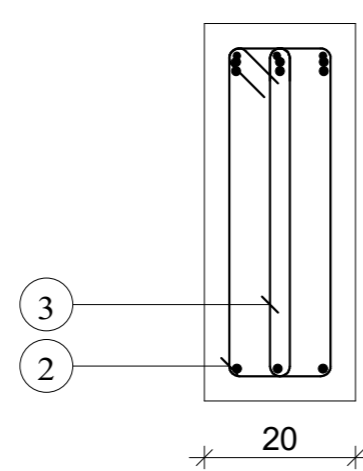
Pos.	Armature		Code	Forme
①	3HA 12	l=3.71	00	
②	6RL 6	l=1.28	31	
③	6RL 6	l=1.00		
④	3HA 12	l=1.94	00	



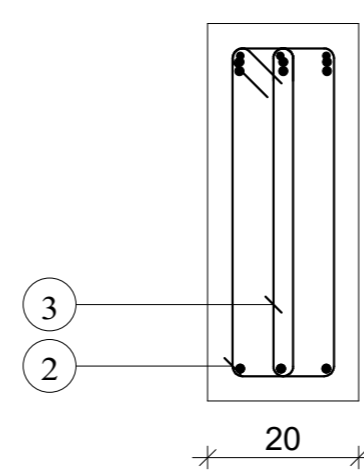
A-A



B-B



C-C



Tél.

Fax

Echelle pour la vue 1:33

Echelle pour la section 1:10

Ptr J1(20x50): P1

Section 20x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/4

Béton : BETON20 = 0.198 m3

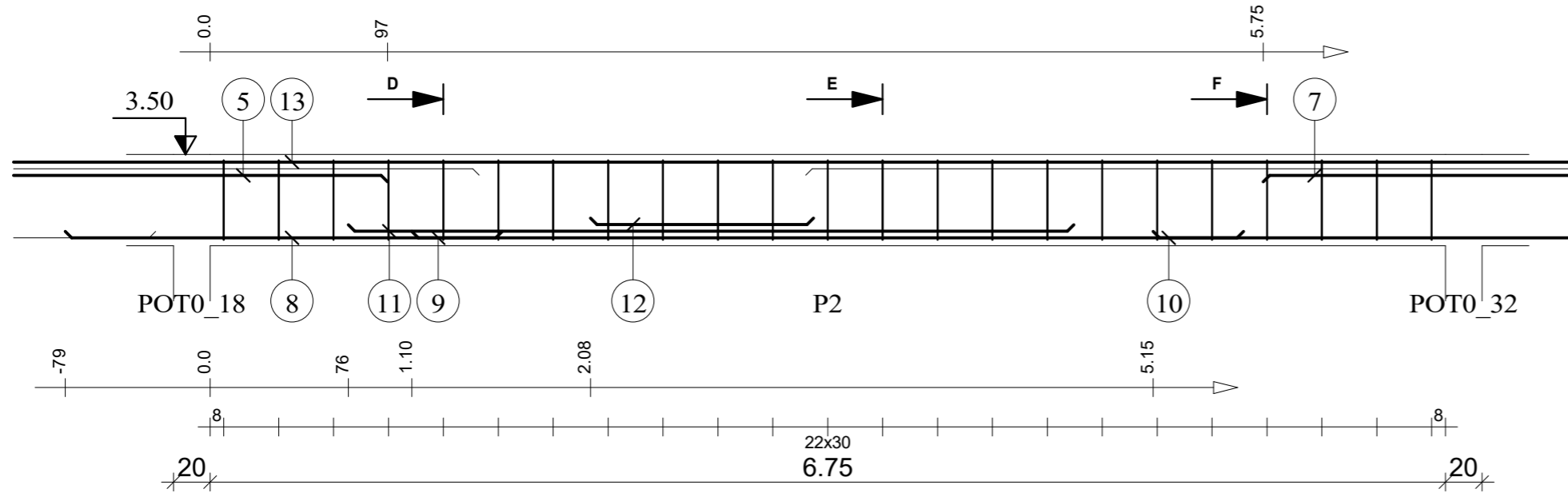
Acier RL 235 = 3.03 kg

Acier HA 400 = 15 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

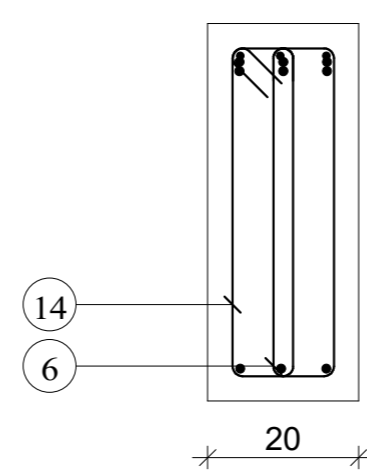
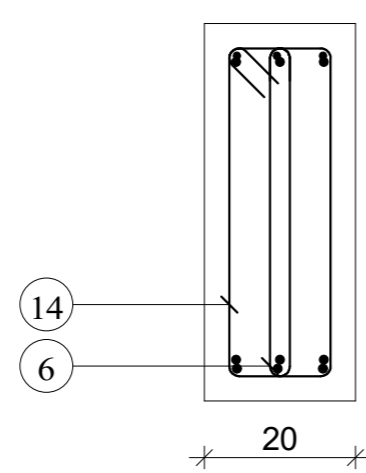
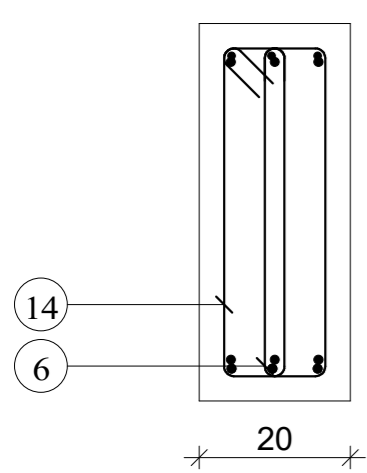
Pos.	Armature		Code	Forme
⑤	3HA 12	l=2.12	00	2.12
⑥	23RL 6	l=100		
⑦	3HA 12	l=2.14	00	2.14
⑧	3HA 12	l=2.39	00	2.39
⑨	3HA 12	l=4.54	00	4.54
⑩	3HA 12	l=2.75	00	2.75
⑪	3HA 12	l=3.96	00	3.96
⑫	3HA 12	l=1.22	00	1.22
⑬	3HA 8	l=13.41	00	13.41
⑭	23RL 6	l=1.28	31	



D-D

E-E

F-F



Tél.

Fax

Echelle pour la vue 1:33

Echelle pour la section 1:10

Ptr J1(20x50): P2

Section 20x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/4

Béton : BETON20 = 0.695 m3

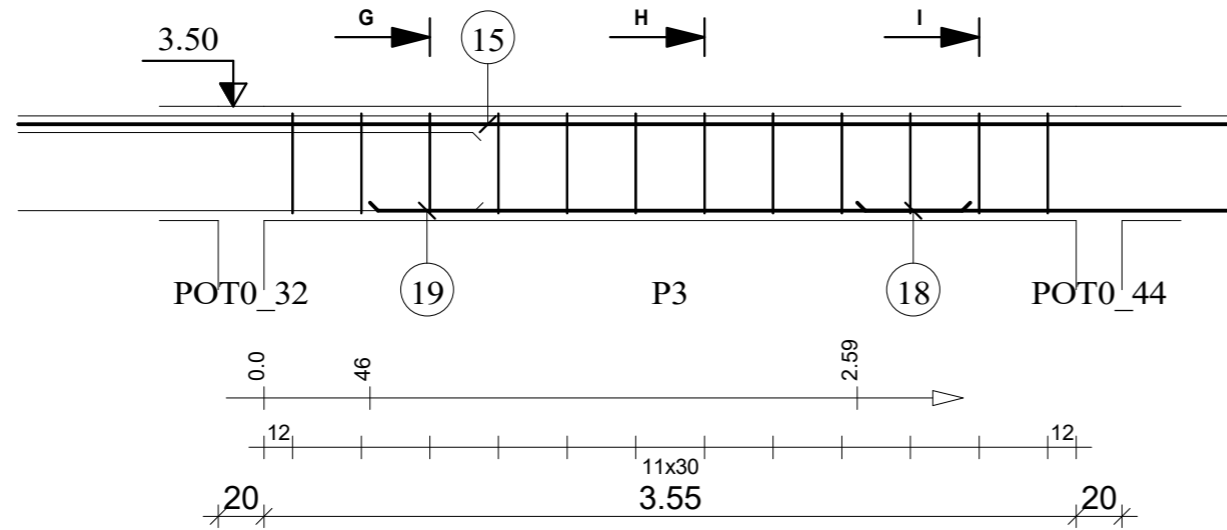
Acier RL 235 = 11.6 kg

Acier HA 400 = 66.8 kg

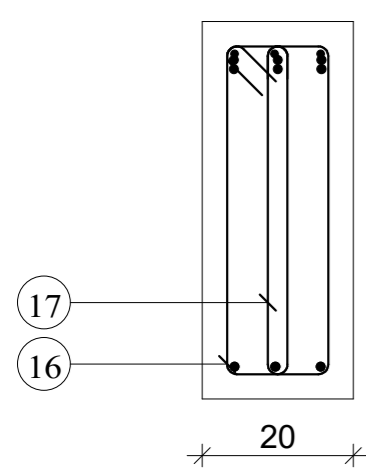
ETAGE COURANT

MINHDU Haut-Nyong_Poutres

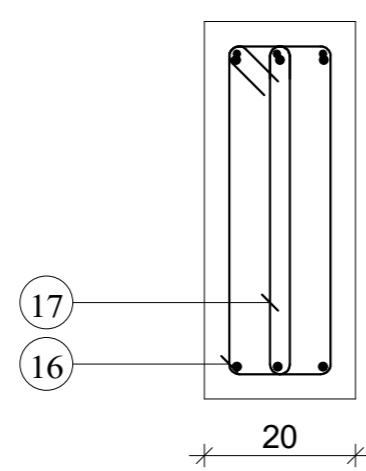
Pos.	Armature		Code	Forme
15	3HA 12	l=8.11	00	8.11
16	12RL 6	l=1.28	31	
17	12RL 6	l=100		
18	3HA 12	l=1.83	00	1.83
19	3HA 12	l=2.62	00	2.62



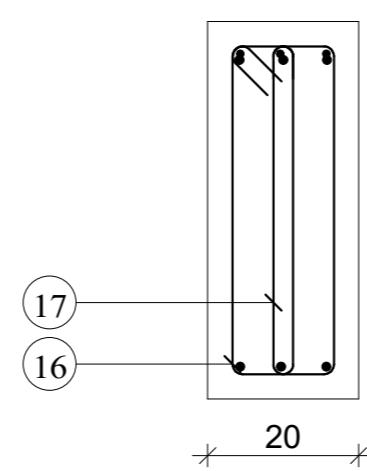
G-G



H-H



I-I



Tél.

Fax

Echelle pour la vue 1:33

Echelle pour la section 1:10

Ptr J1(20x50): P3

Section 20x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/4

Béton : BETON20 = 0.375 m3

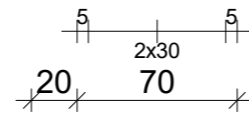
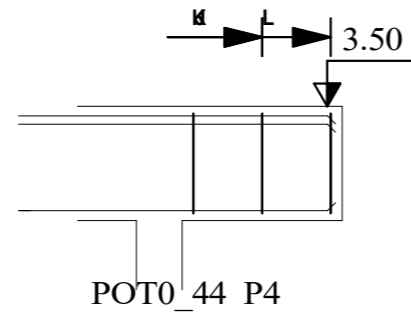
Acier RL 235 = 6.05 kg

Acier HA 400 = 33.5 kg

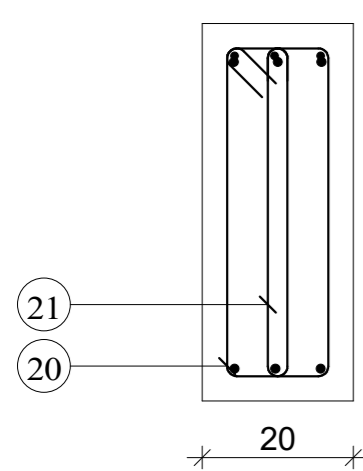
ETAGE COURANT

MINHDU Haut-Nyong_Poutres

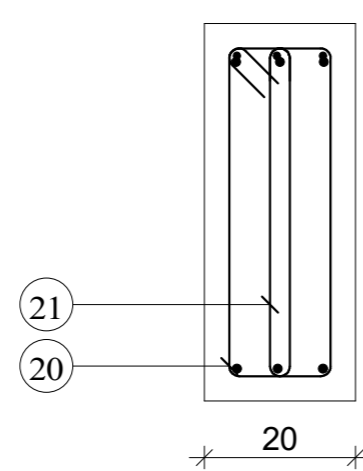
Pos.	Armature	Code	Forme
20	3RL 6	l=1.28	31
21	3RL 6	l=100	



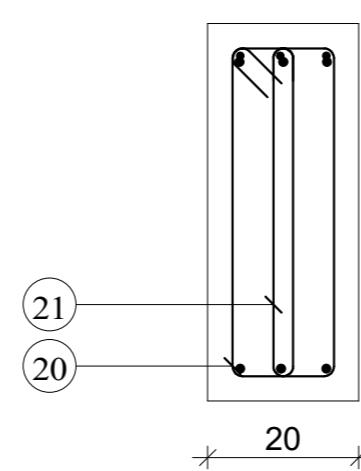
J-J



K-K



L-L



Tél.

Fax

Echelle pour la vue 1:33

Echelle pour la section 1:10

Ptr J1(20x50): P4

Section 20x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

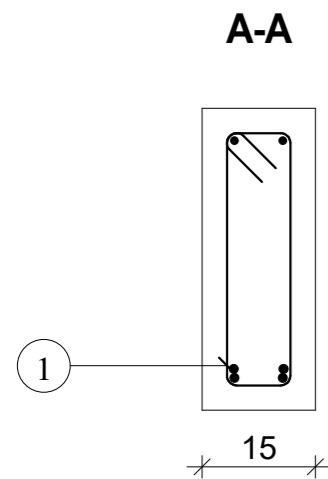
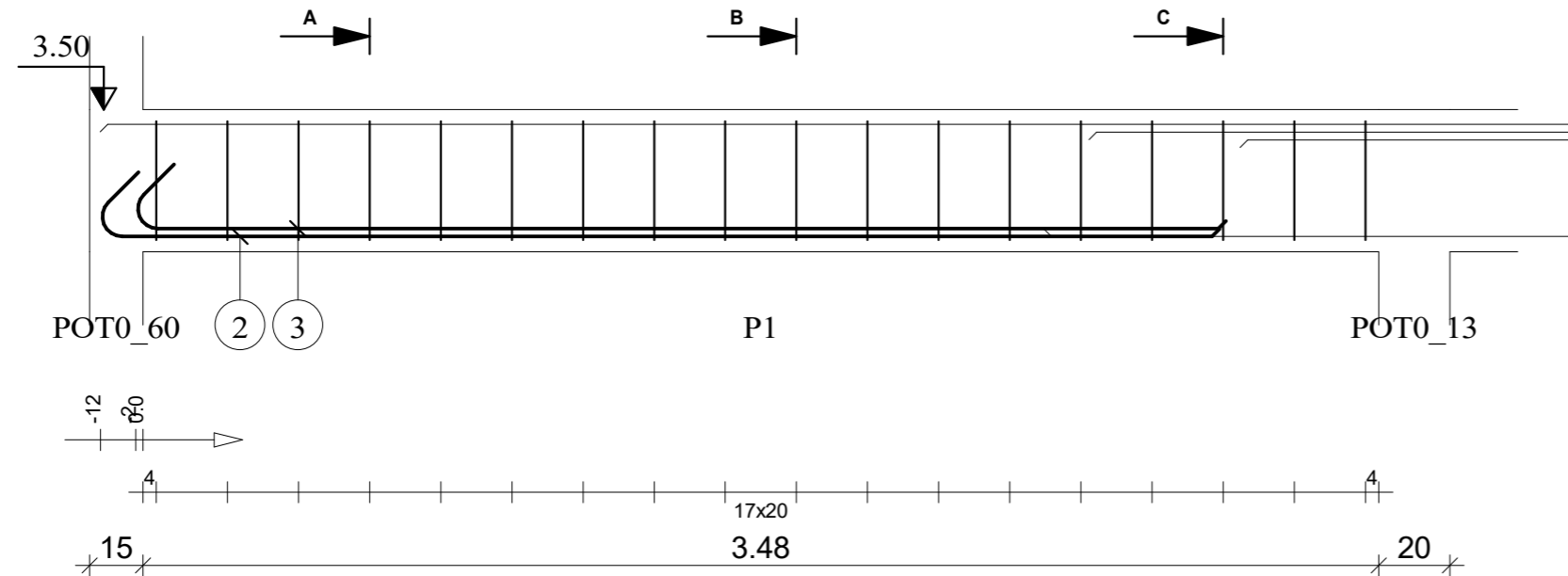
Page 4/4

Béton : BETON20 = 0.08 m3
Acier RL 235 = 1.51 kg

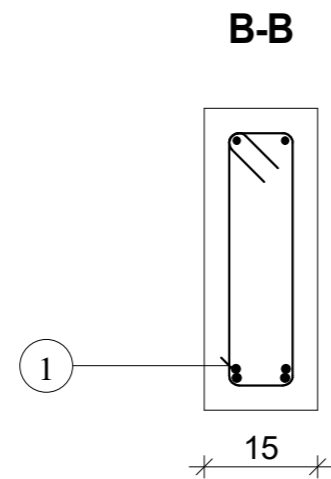
ETAGE COURANT

MINHDU Haut-Nyong_Poutres

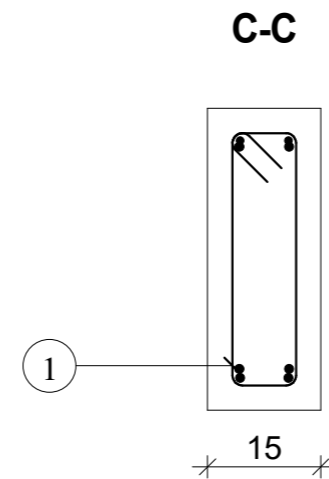
Pos.	Armature		Code	Forme
①	18RL 6	l=98	31	
②	2HA 12	l=3.34	00	
③	2HA 12	l=3.25	00	



40



40



40

Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

Ptr J2(15x40): P1

Section 15x40

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/4


Béton : BETON20 = 0.224 m3

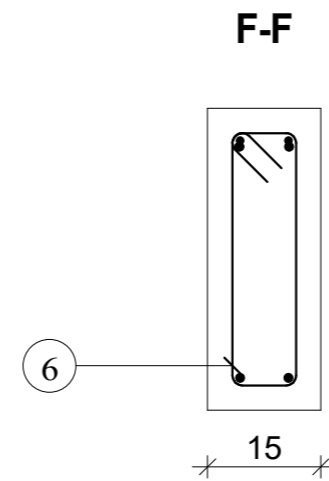
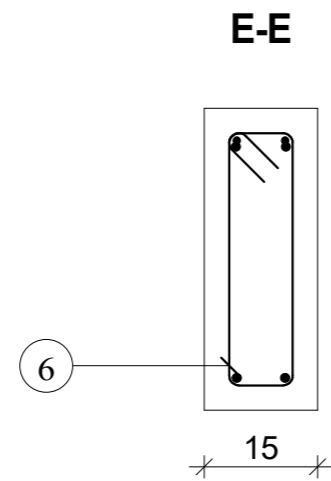
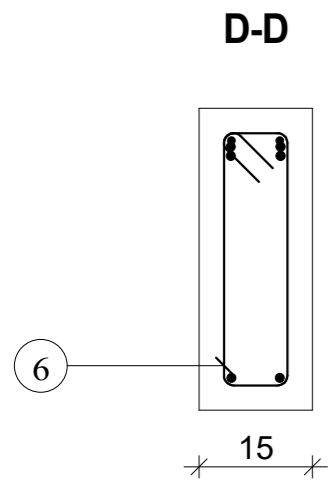
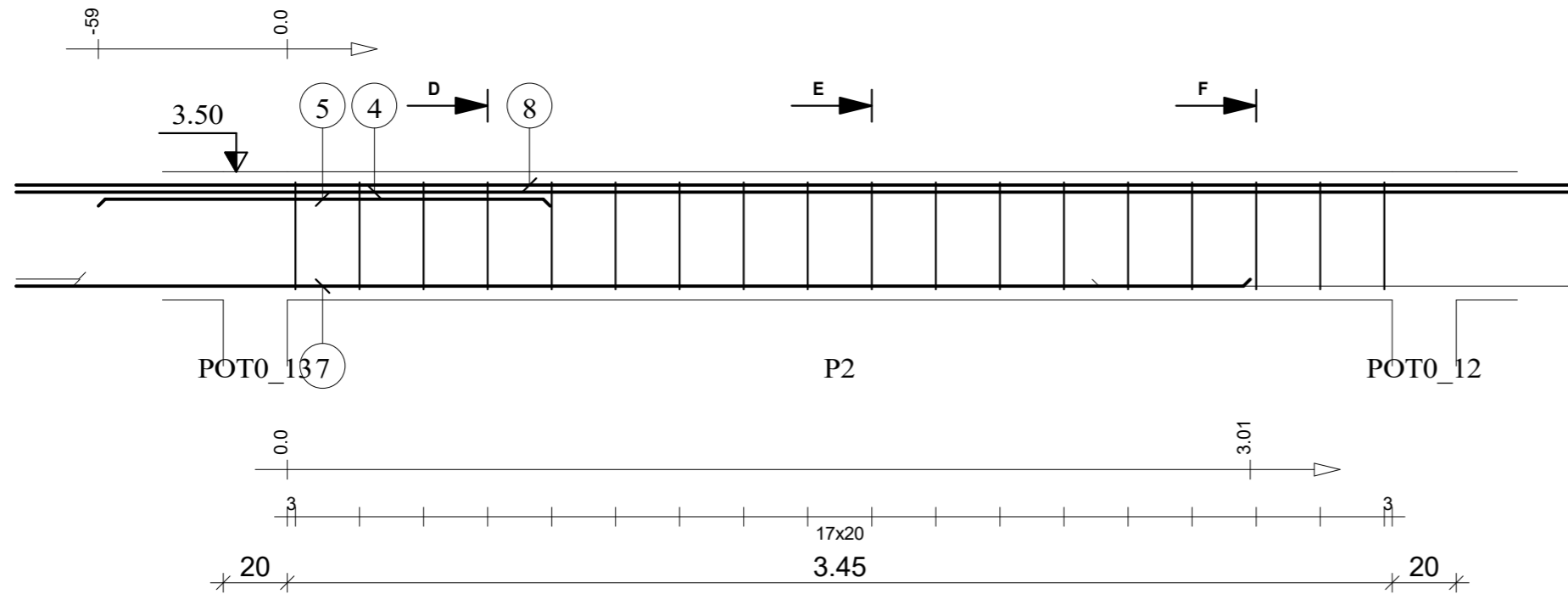
Acier RL 235 = 3.89 kg

Acier HA 400 = 11.7 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature	Code	Forme	
④	2HA 12	l=5.82	00	5.82
⑤	2HA 12	l=1.41	00	1.41
⑥	18RL 6	l=98	31	
⑦	2HA 12	l=4.15	00	4.15
⑧	2HA 8	l=13.32	00	13.32



Tél.
Fax

Echelle pour la vue 1:20
Echelle pour la section 1:10

Ptr J2(15x40): P2
Section 15x40

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

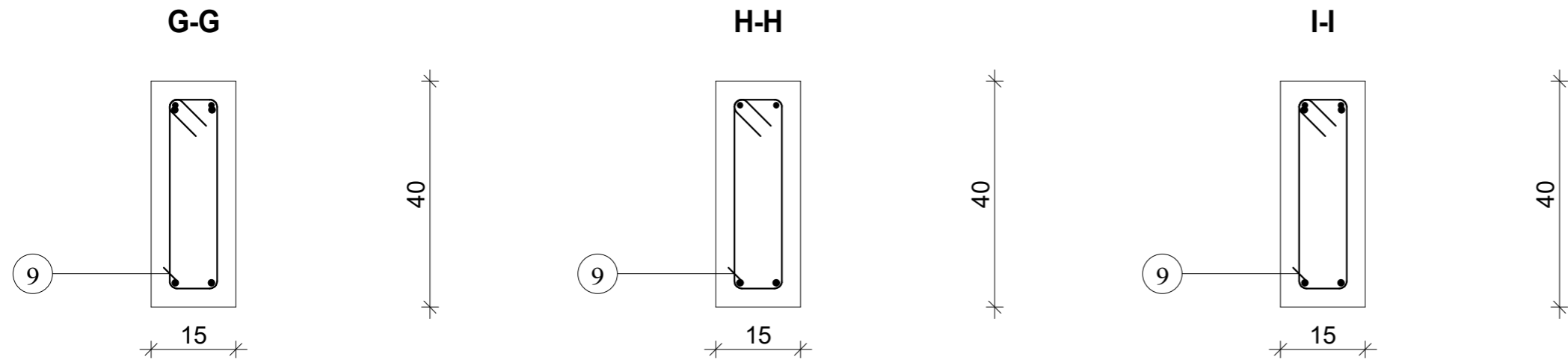
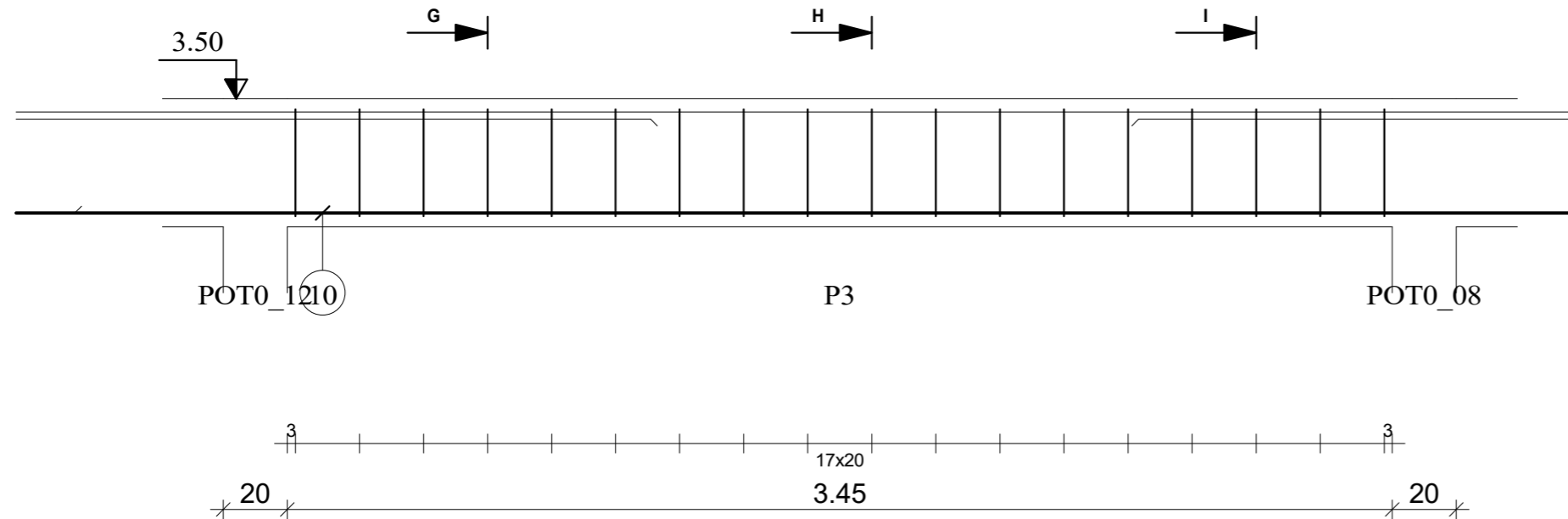
Page 2/4

Béton : BETON20 = 0.219 m3
Acier RL 235 = 3.89 kg
Acier HA 400 = 30.7 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature	Code	Forme
9	18RL 6	I=98	31
10	2HA 12	I=7.15	00



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

Ptr J2(15x40): P3

Section 15x40

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/4

Béton : BETON20 = 0.219 m3

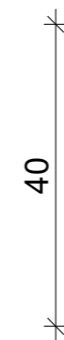
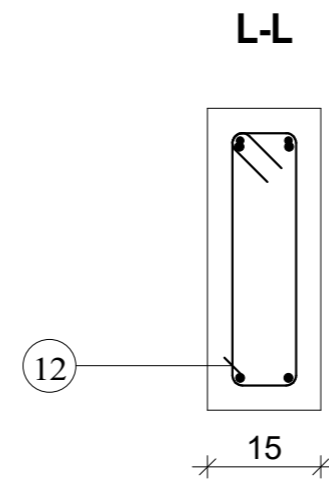
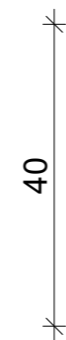
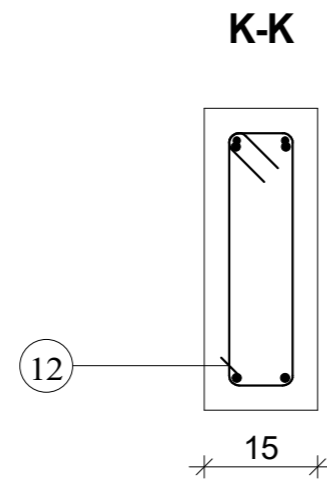
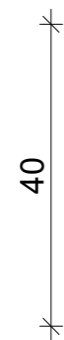
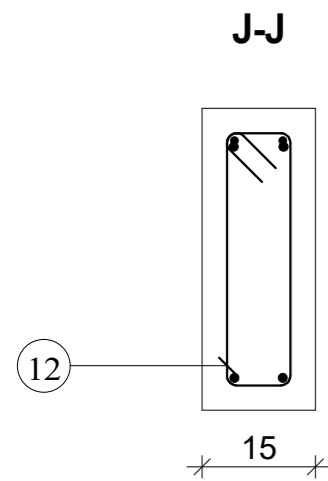
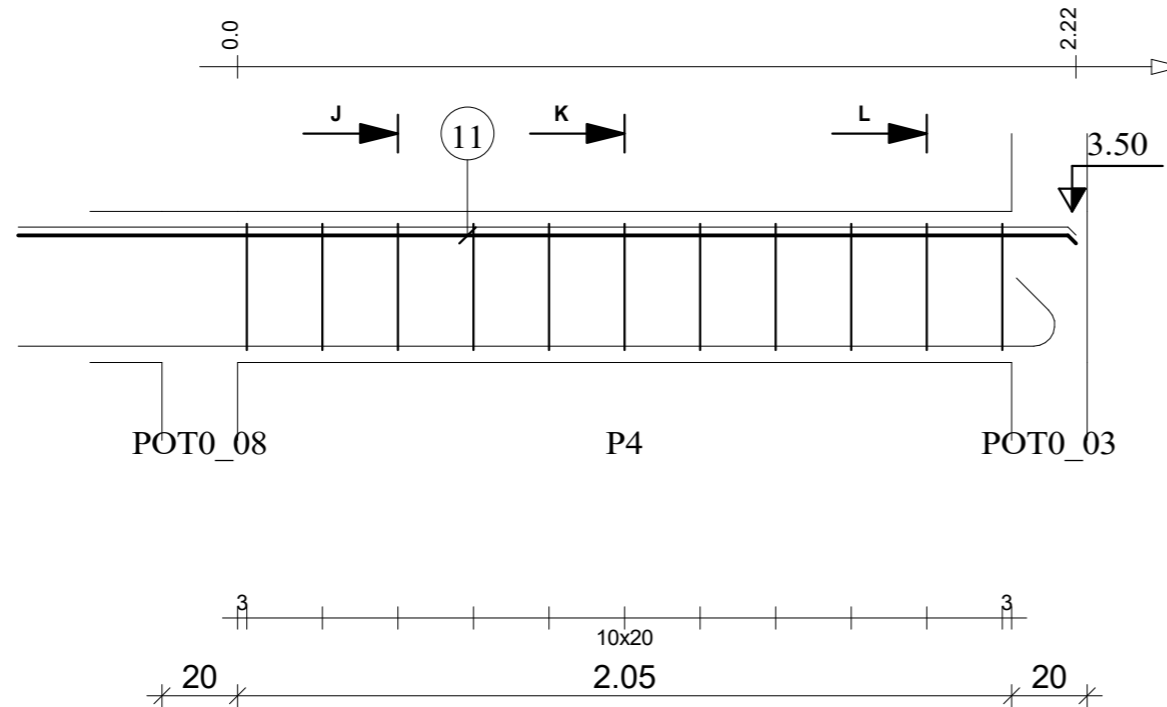
Acier RL 235 = 3.89 kg

Acier HA 400 = 12.7 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature	Code	Forme
11	2HA 12	l=3.23	3.23
12	11RL 6	l=98	98



Tél.
Fax

Echelle pour la vue 1:20
Echelle pour la section 1:10

Ptr J2(15x40): P4
Section 15x40

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

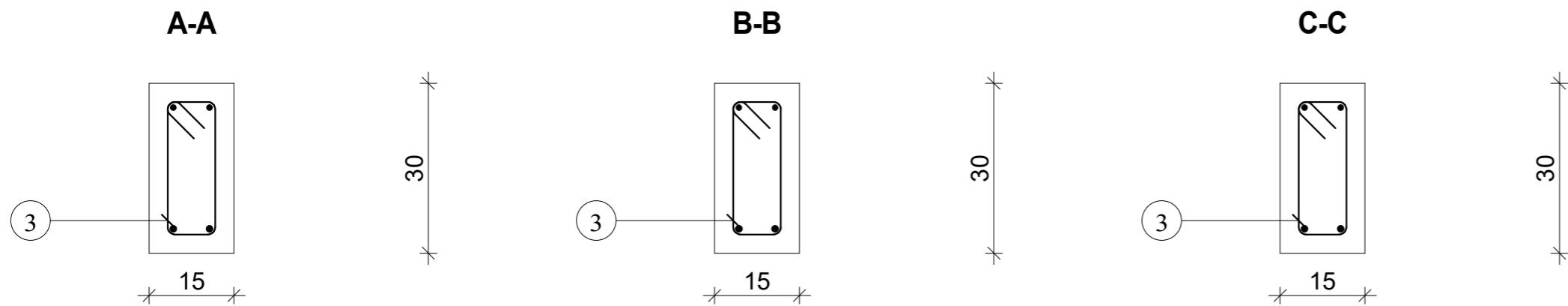
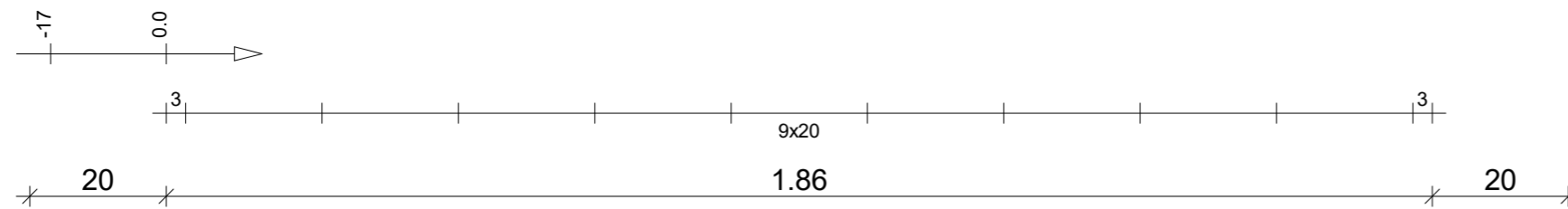
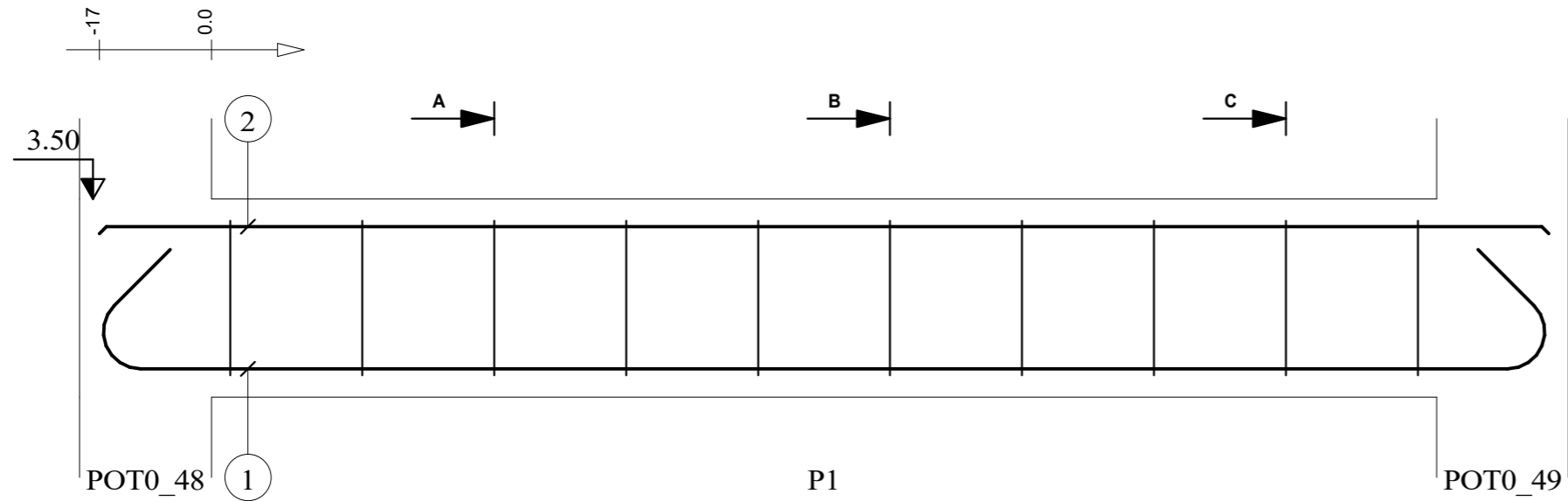
Page 4/4

Béton : BETON20 = 0.141 m³
Acier RL 235 = 2.38 kg
Acier HA 400 = 5.74 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature	Code	Forme
①	2HA 12	l=2.58	
②	2HA 8	l=2.20	
③	10RL 6	l=78	



Tél.

Fax

Echelle pour la vue 1:10

Echelle pour la section 1:10

Ptr KL(15x30): P1

Section 15x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/1

Béton : BETON = 0.102 m³

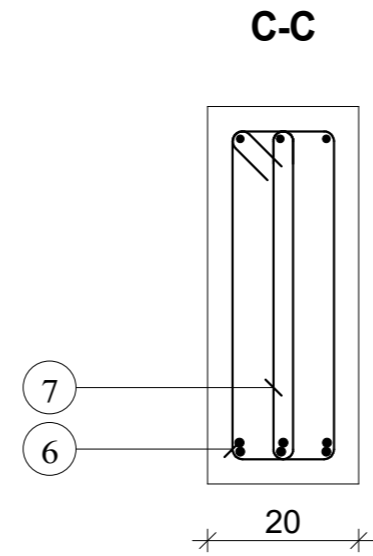
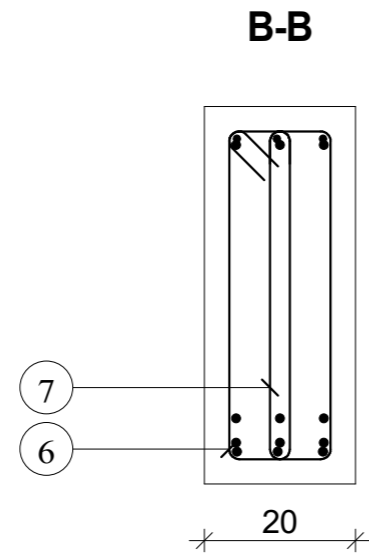
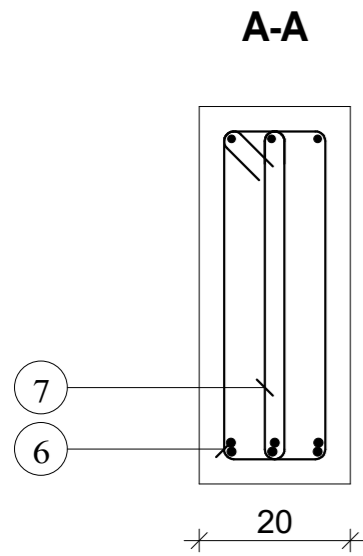
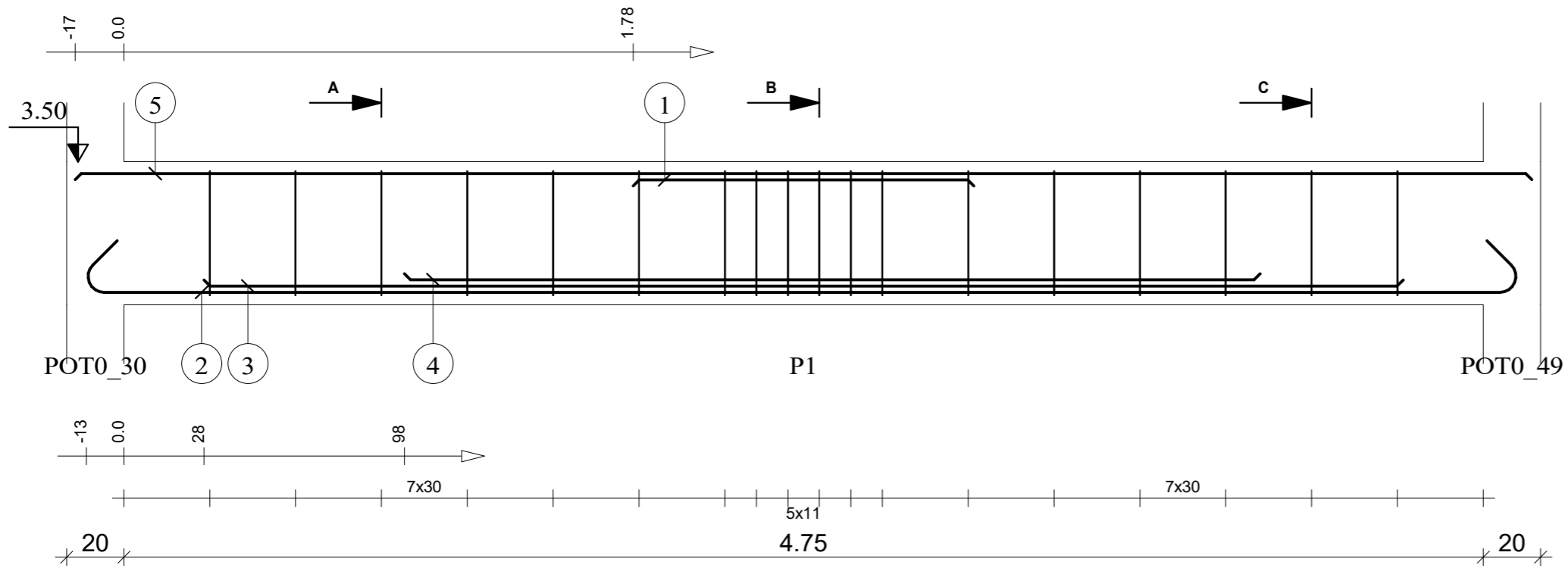
Acier RL 235 = 1.72 kg

Acier HA 400 = 6.31 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature	Code	Forme	
①	3HA 12	l=1.19	00	1.19
②	3HA 12	l=5.38	00	5.00
③	3HA 12	l=4.19	00	4.19
④	3HA 12	l=2.99	00	2.99
⑤	3HA 8	l=5.09	00	5.09
⑥	18RL 6	l=1.28	31	14 8 4.4
⑦	18RL 6	l=100		0.0 4.4 8



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

Ptr KN(20x50): P1

Section 20x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/1

Béton : BETON20 = 0.515 m3

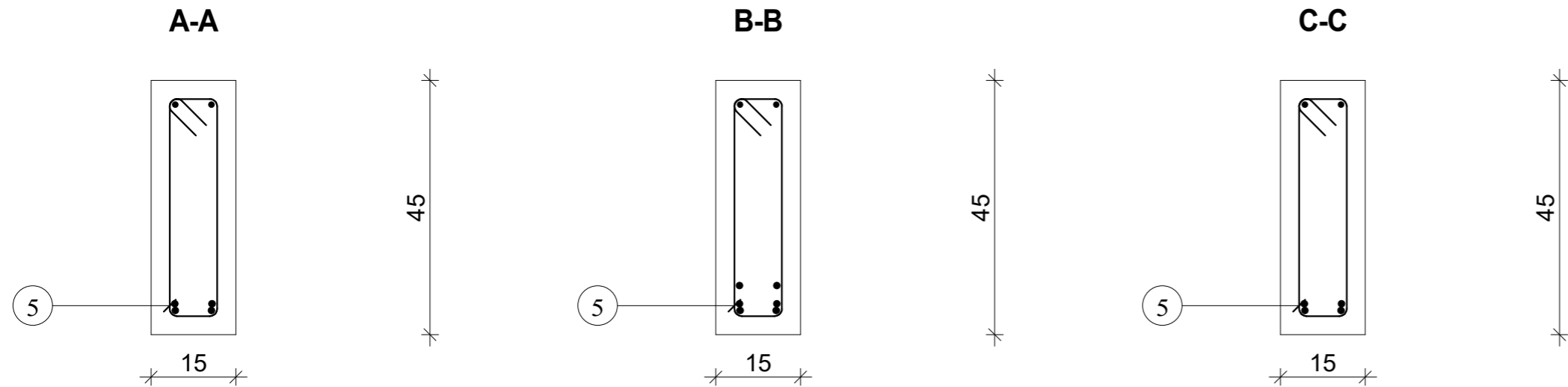
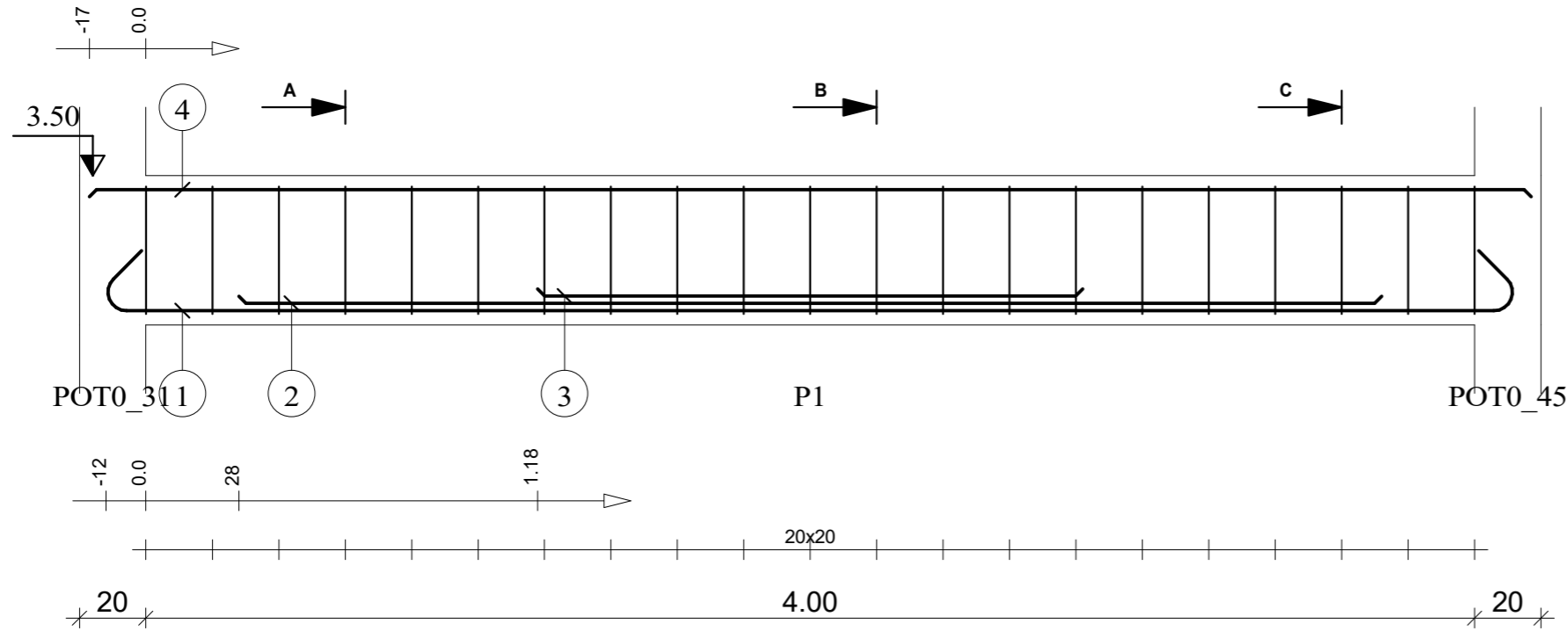
Acier RL 235 = 9.08 kg

Acier HA 400 = 42.6 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature	Code	Forme
①	2HA 12	l=4.62	00
②	2HA 12	l=3.44	00
③	2HA 12	l=1.64	00
④	2HA 8	l=4.34	00
⑤	21RL 6	l=1.08	31



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

Ptr LM(15x45): P1

Section 15x45

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/1

Béton : BETON20 = 0.297 m3

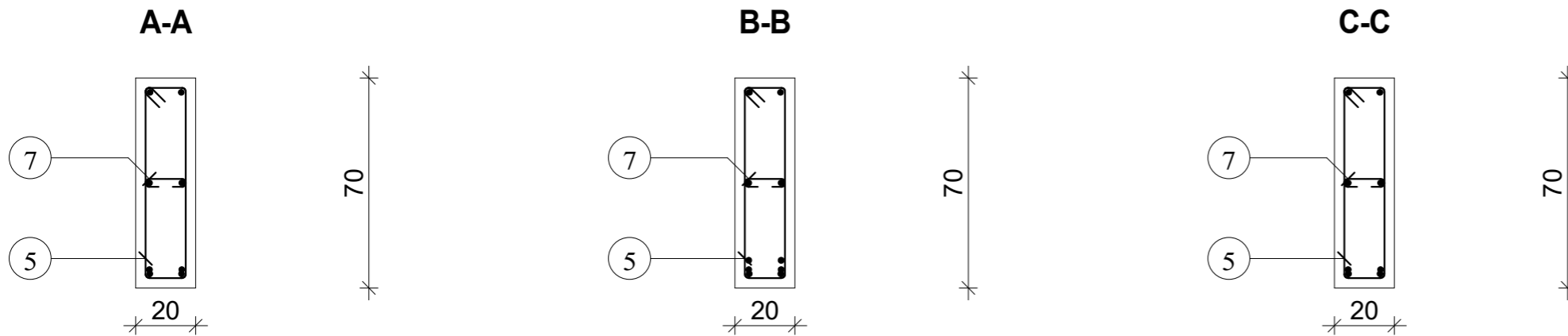
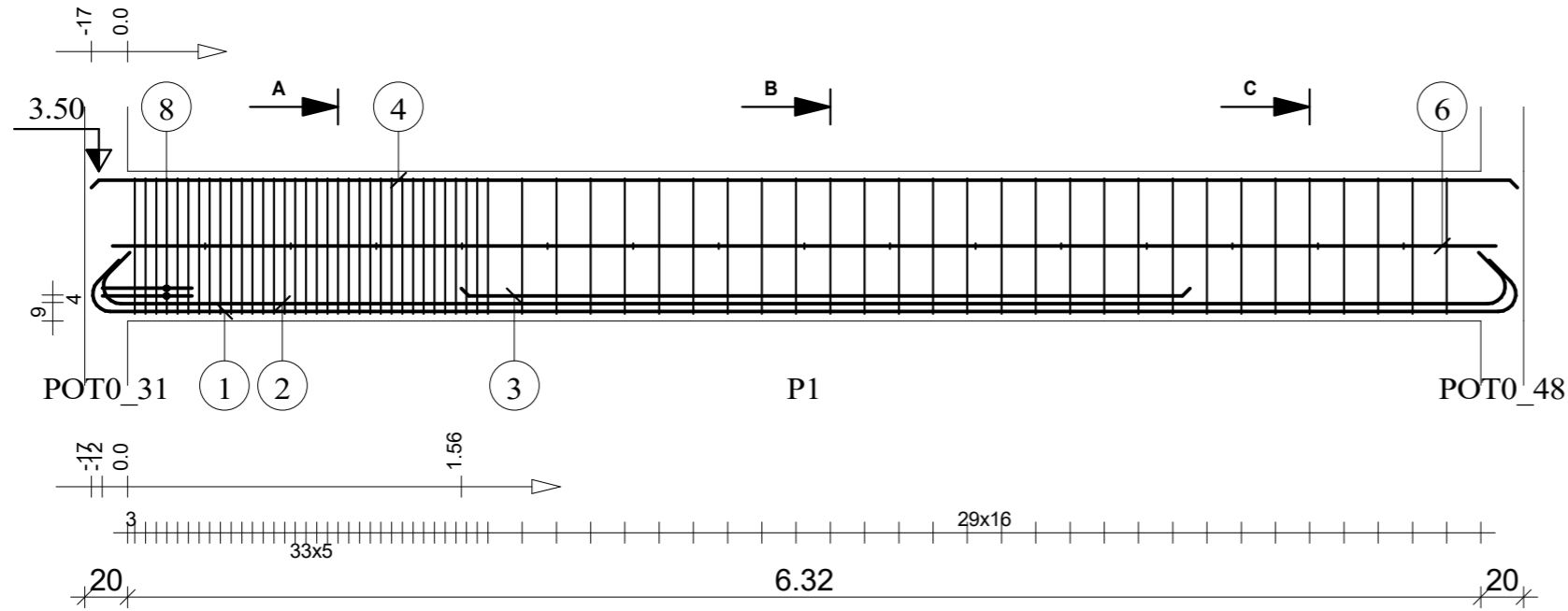
Acier RL 235 = 5.01 kg

Acier HA 400 = 20.7 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature	Code	Forme
①	2HA 14	l=7.15	00
②	2HA 14	l=7.05	00
③	2HA 14	l=3.40	00
④	2HA 8	l=6.66	00
⑤	62RL 6	l=1.68	31
⑥	2RL 10	l=6.46	00
⑦	15RL 6	l=25	
⑧	2RL 6	l=95	21



Tél.

Fax

Echelle pour la vue 1:33

Echelle pour la section 1:20

Ptr LO(20x70): P1

Section 20x70

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/1

Béton : BETON20 = 0.941 m3

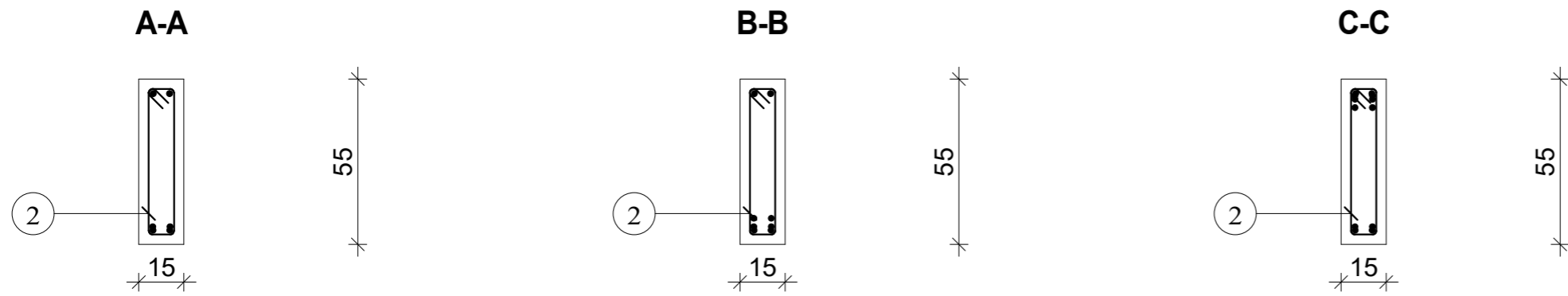
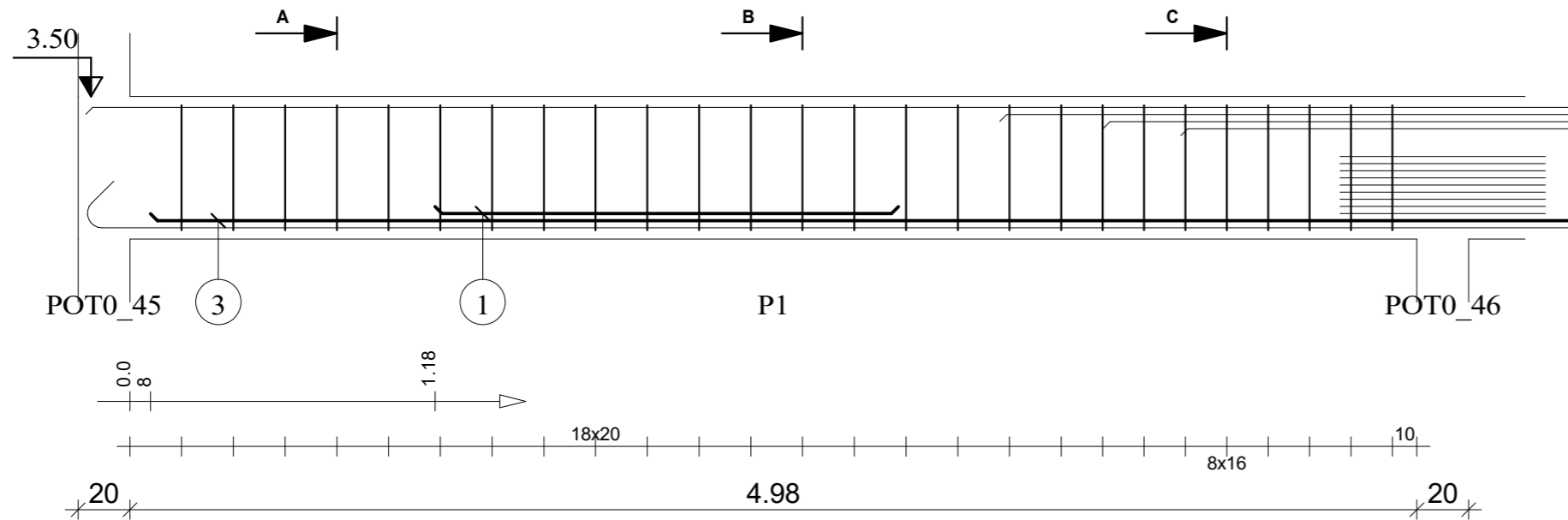
Acier RL 235 = 32.3 kg

Acier HA 400 = 47.8 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature		Code	Forme
①	2HA 12	l=1.79	00	1.79
②	26RL 6	l=1.28	31	
③	2HA 12	l=9.79	00	9.79



Tél.
Fax

Echelle pour la vue 1:25
Echelle pour la section 1:20

Ptr MQ(15x55): P1
Section 15x55

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

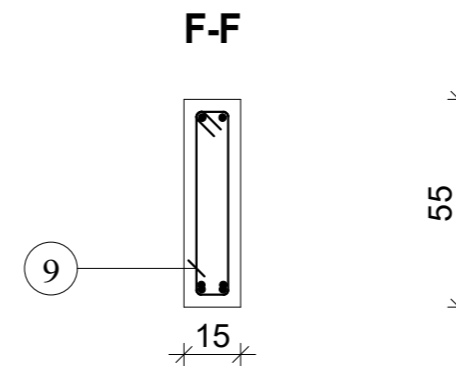
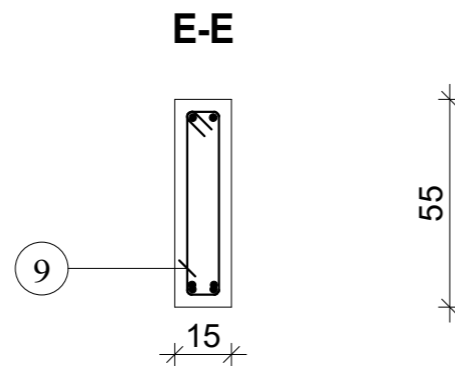
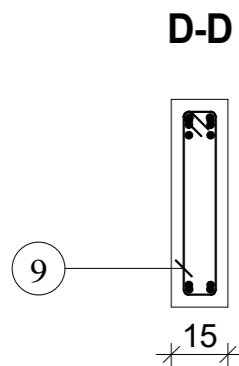
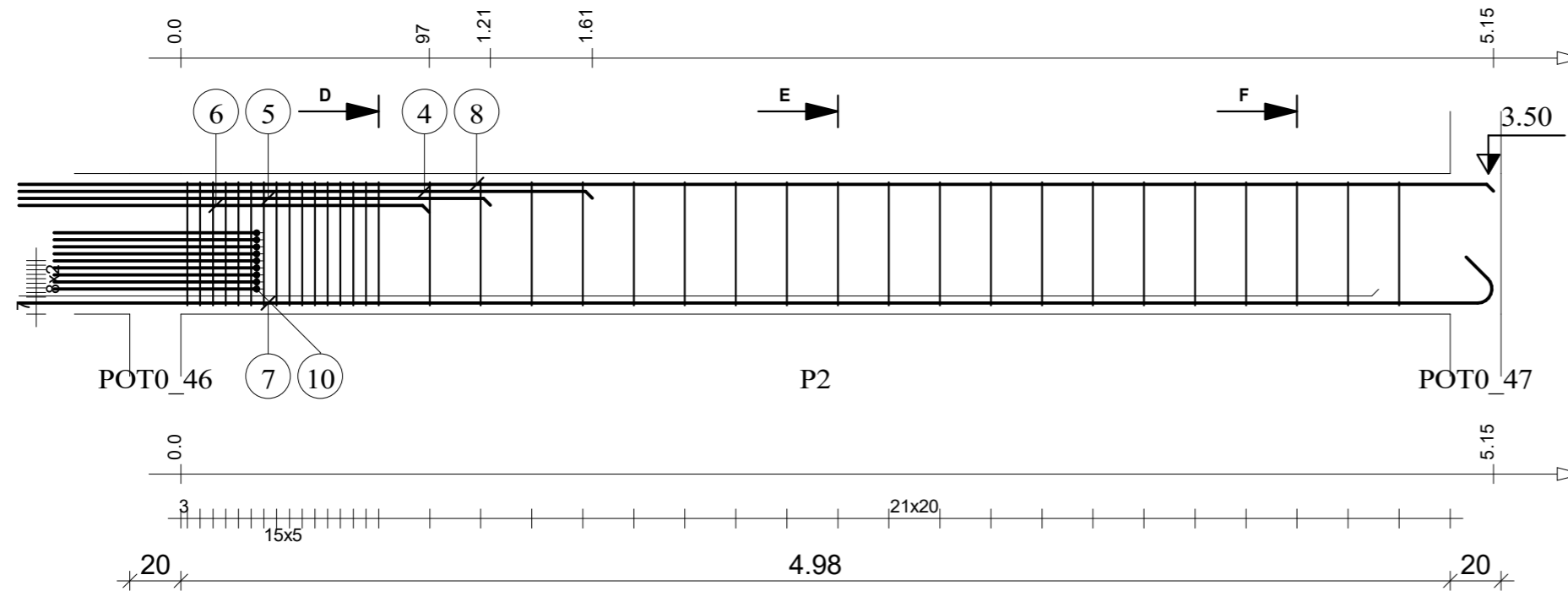
Page 1/2

Béton : BETON20 = 0.435 m3
Acier RL 235 = 7.36 kg
Acier HA 400 = 20.6 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature		Code	Forme
④	2HA 12	l=3.43	00	3.42
⑤	2HA 12	l=2.63	00	2.62
⑥	2HA 12	l=2.09	00	2.09
⑦	2HA 12	l=10.87	00	10.49
⑧	2HA 8	l=10.49	00	10.49
⑨	36RL 6	l=1.28	31	
⑩	18RL 6	l=95	00	80



Tél.
Fax

Echelle pour la vue 1:25
Echelle pour la section 1:20

Ptr MQ(15x55): P2
Section 15x55

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

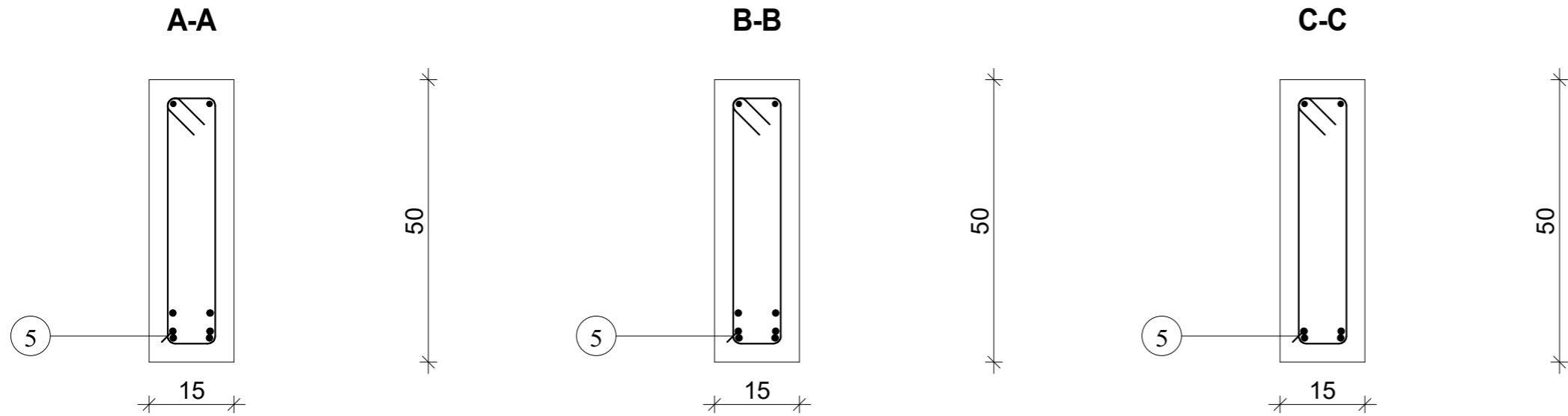
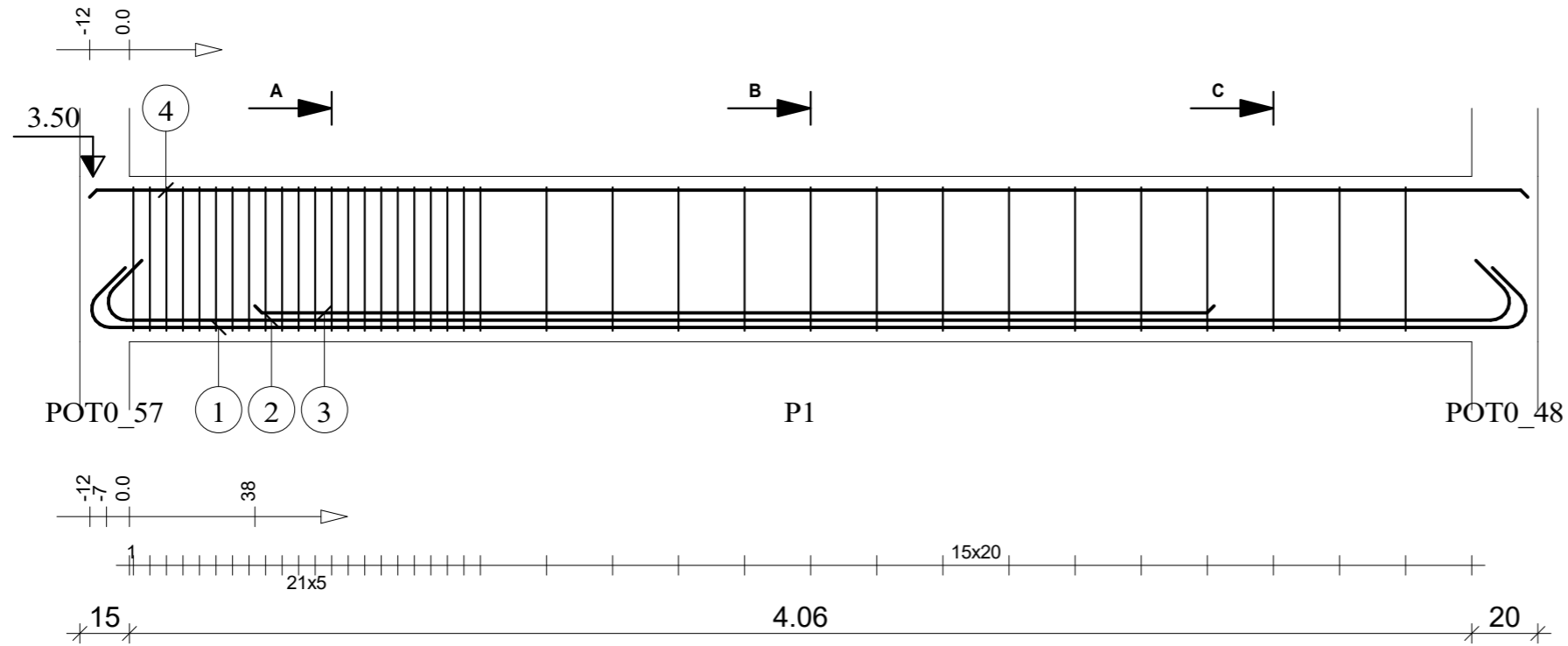
Page 2/2

Béton : BETON20 = 0.435 m3
Acier RL 235 = 14 kg
Acier HA 400 = 42 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature		Code	Forme
①	2HA 12	l=4.73	00	
②	2HA 12	l=4.63	00	
③	2HA 12	l=2.90	00	
④	2HA 8	l=4.35	00	
⑤	36RL 6	l=1.18	31	



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

Ptr O(15x50): P1

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/1

Béton : BETON20 = 0.331 m3

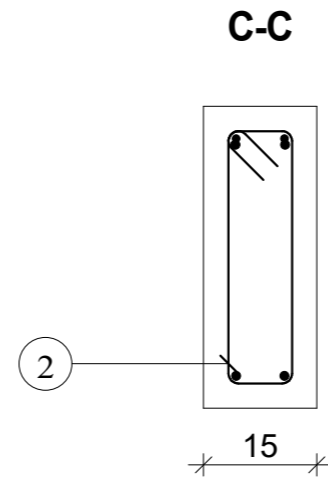
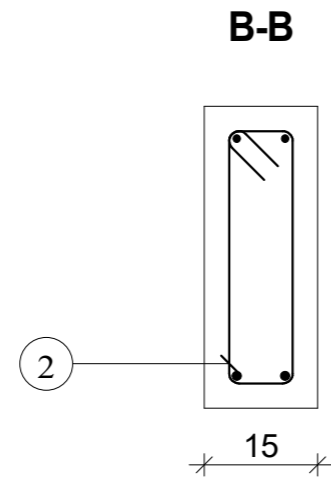
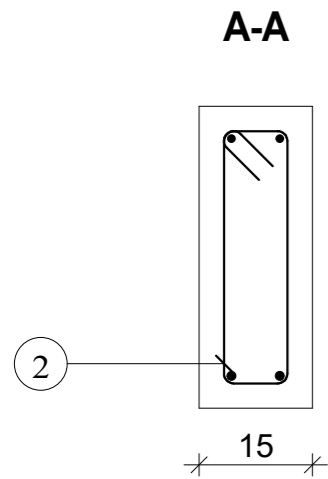
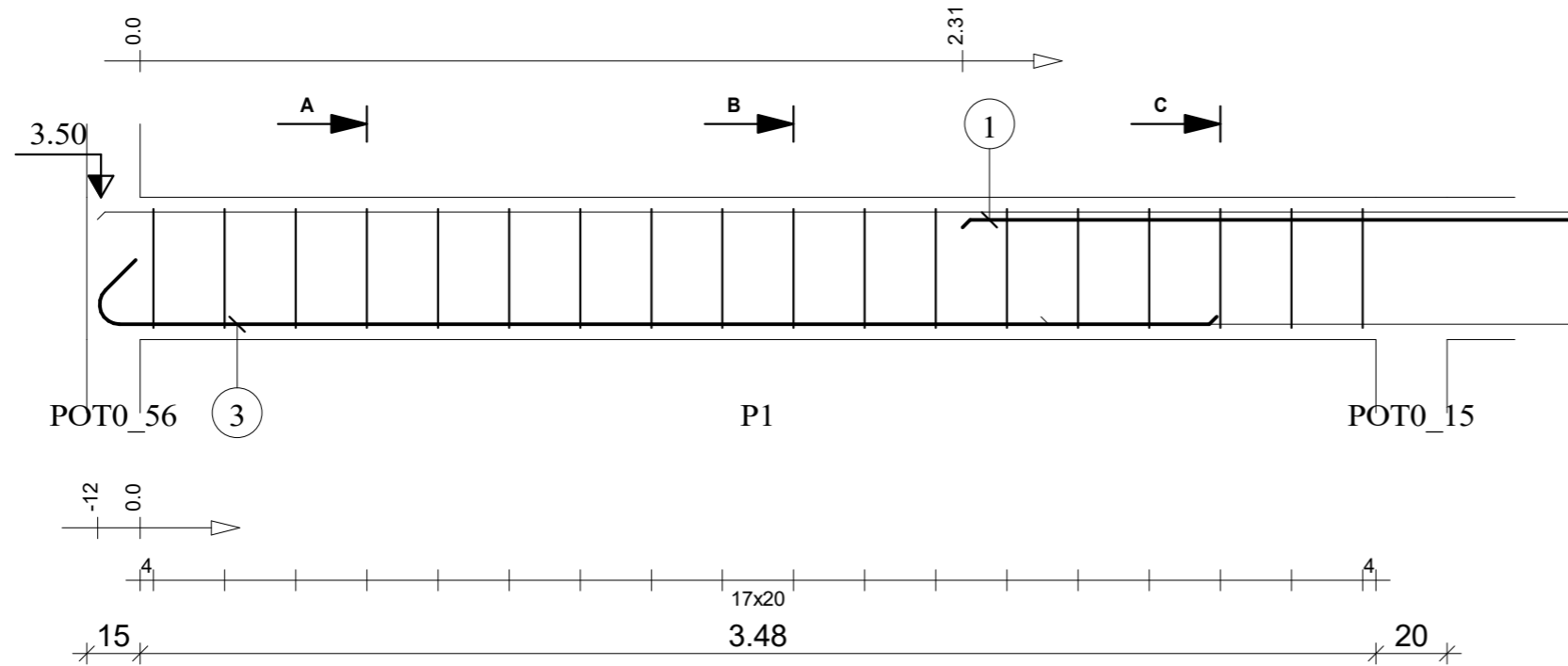
Acier RL 235 = 9.38 kg

Acier HA 400 = 25.2 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature	Code	Forme
①	2HA 12	l=2.52	00
②	18RL 6	l=98	31
③	2HA 12	l=3.34	00



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

Ptr O2(15x40): P1

Section 15x40

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/4


Béton : BETON20 = 0.224 m³

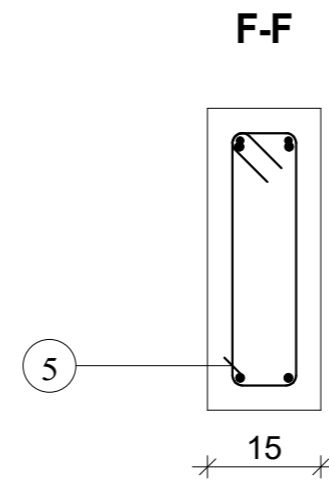
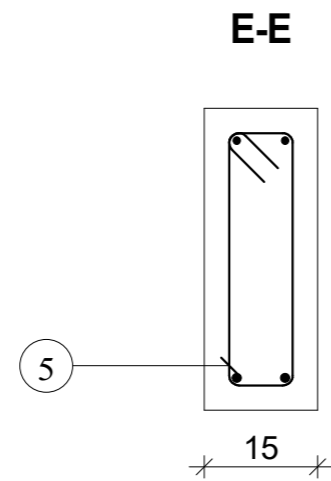
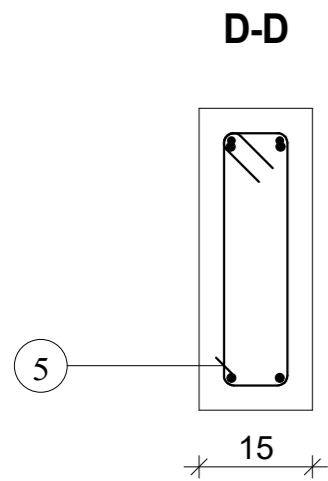
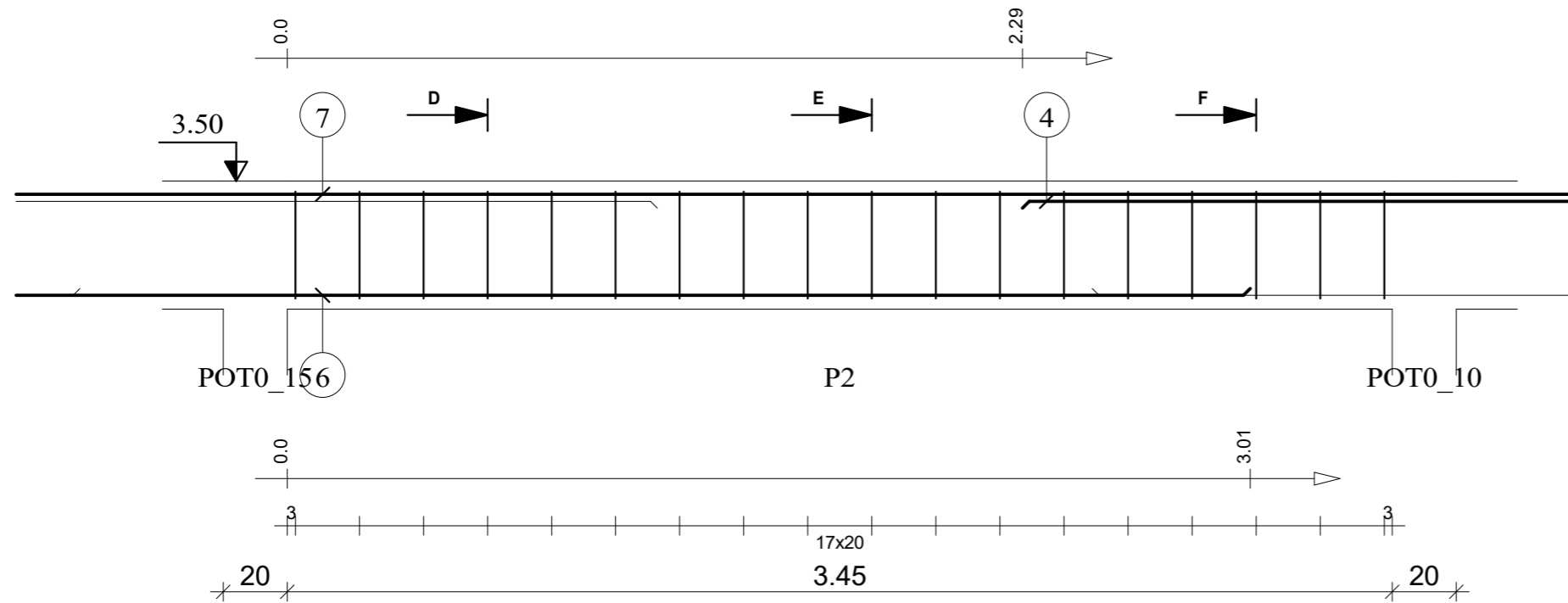
Acier RL 235 = 3.89 kg

Acier HA 400 = 10.4 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature		Code	Forme
④	2HA 12	l=2.51	00	2.51
⑤	18RL 6	l=98	31	
⑥	2HA 12	l=4.15	00	4.15
⑦	2HA 8	l=13.32	00	13.32



Tél.
Fax

Echelle pour la vue 1:20
Echelle pour la section 1:10

Ptr O2(15x40): P2
Section 15x40

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

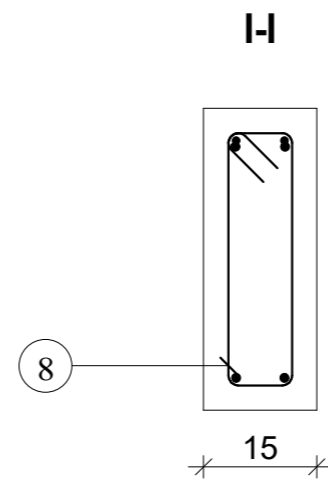
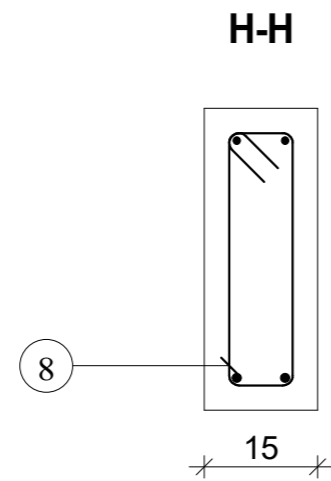
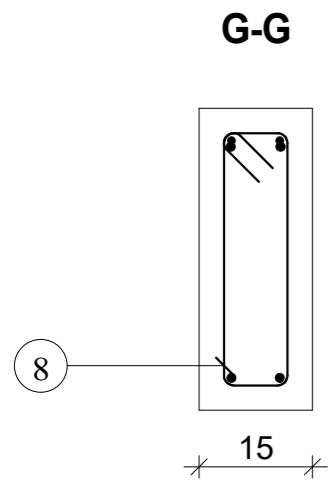
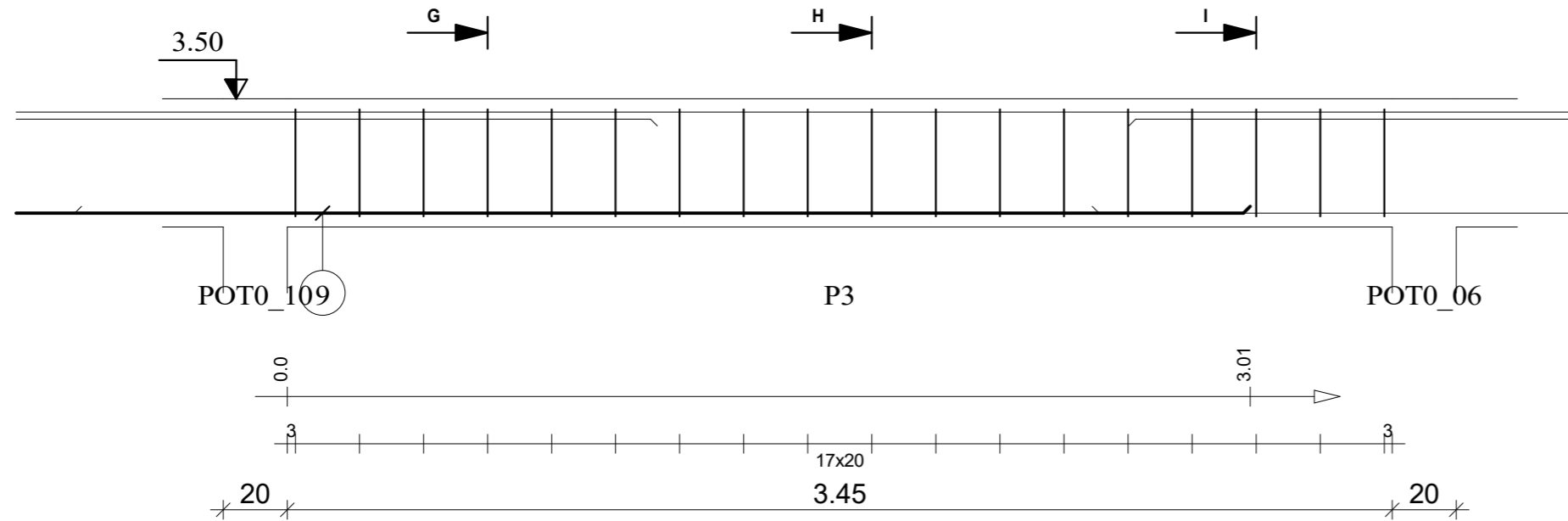
Page 2/4

Béton : BETON20 = 0.219 m3
Acier RL 235 = 3.89 kg
Acier HA 400 = 22.3 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature	Code	Forme
8	18RL 6	I=98	31
9	2HA 12	I=4.14	00



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

Ptr O2(15x40): P3

Section 15x40

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/4

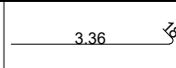
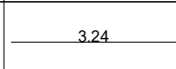
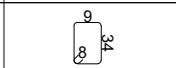
Béton : BETON20 = 0.219 m3

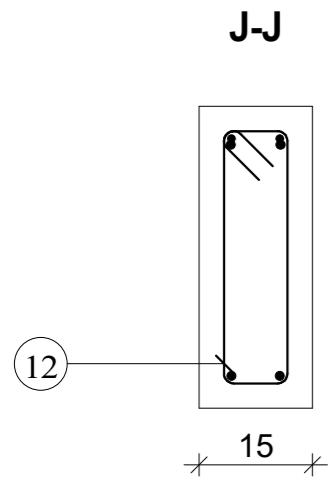
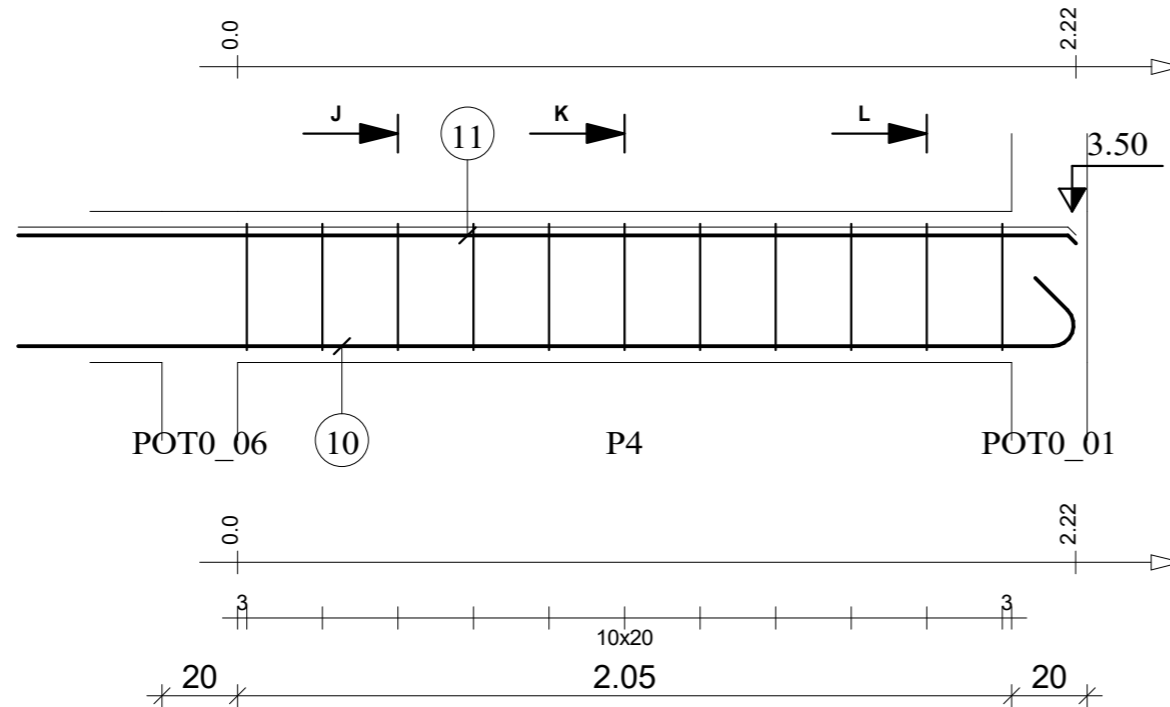
Acier RL 235 = 3.89 kg

Acier HA 400 = 7.36 kg

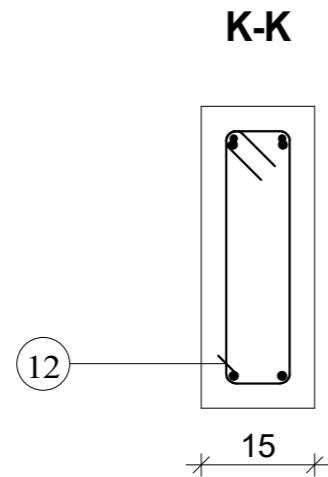
ETAGE COURANT

MINHDU Haut-Nyong_Poutres

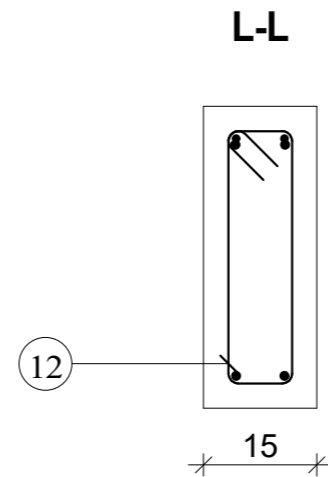
Pos.	Armature		Code	Forme
⑩	2HA 12	l=3.55	00	
⑪	2HA 12	l=3.24	00	
⑫	11RL 6	l=98	31	



40



40



40

Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

Ptr O2(15x40): P4

Section 15x40

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 4/4

Béton : BETON20 = 0.141 m³

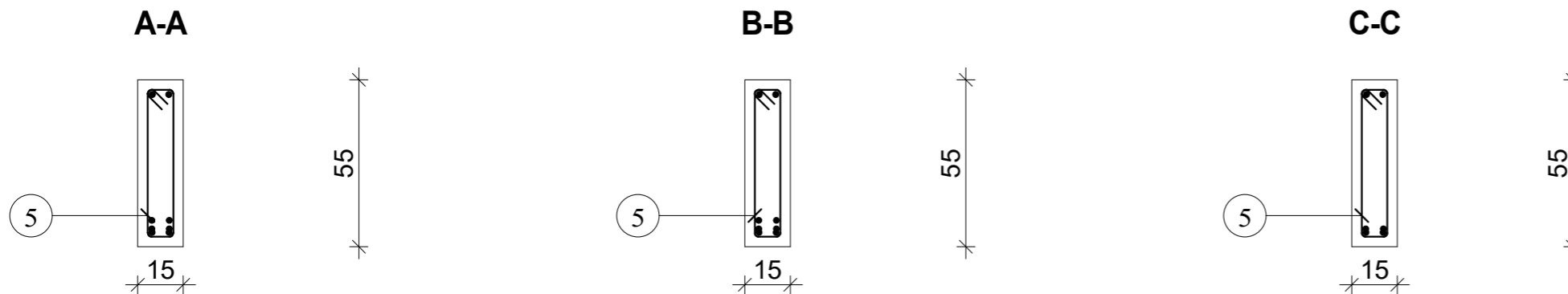
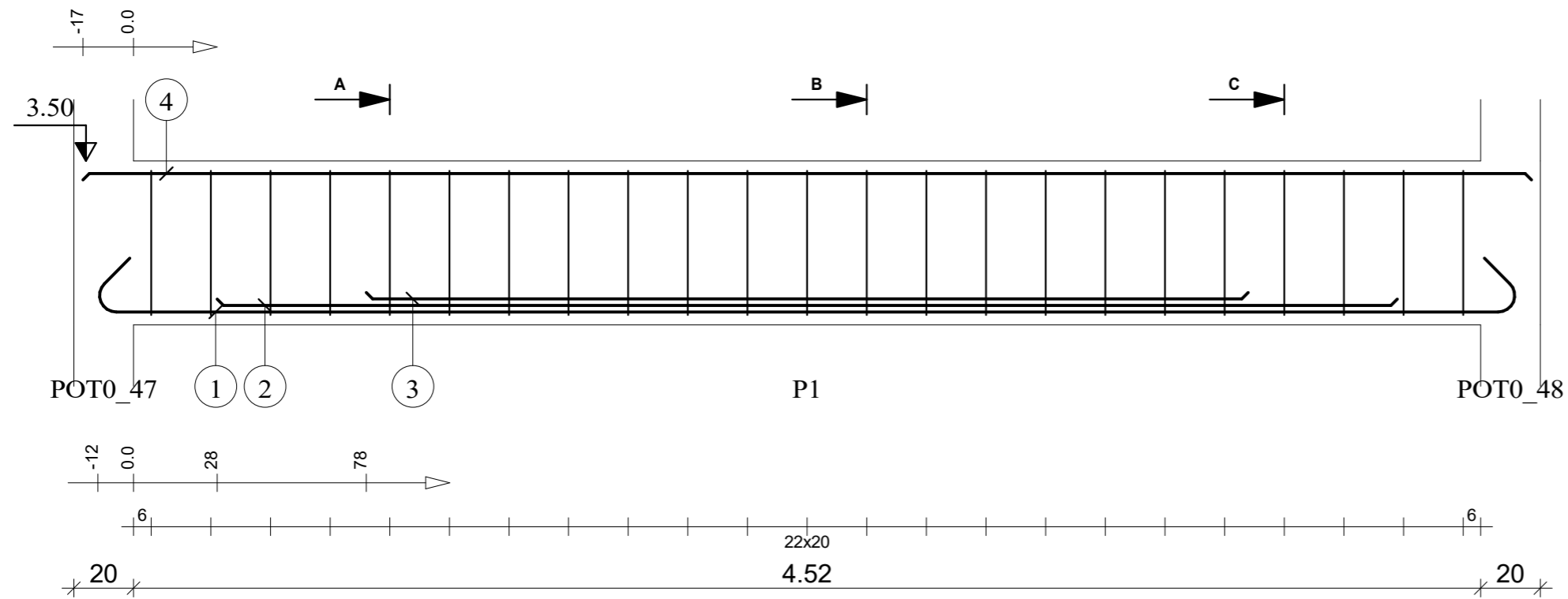
Acier RL 235 = 2.38 kg

Acier HA 400 = 12.1 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature	Code	Forme
①	2HA 12	l=5.14	00
②	2HA 12	l=3.96	00
③	2HA 12	l=2.96	00
④	2HA 8	l=4.86	00
⑤	23RL 6	l=1.28	31



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:20

Ptr OQ(15x55): P1

Section 15x55

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/1

Béton : BETON20 = 0.406 m3

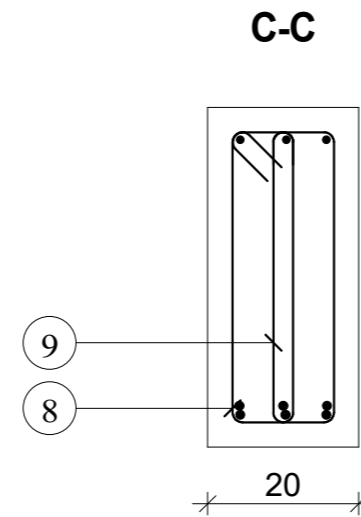
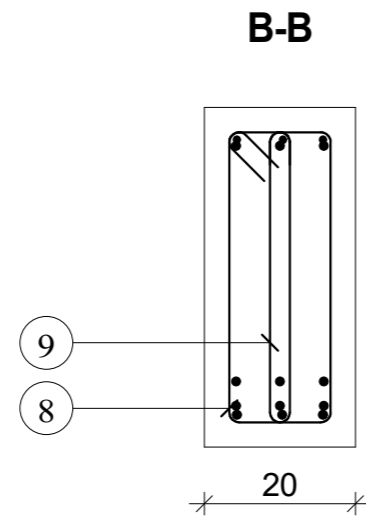
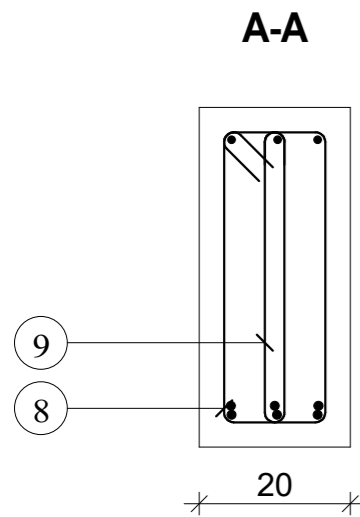
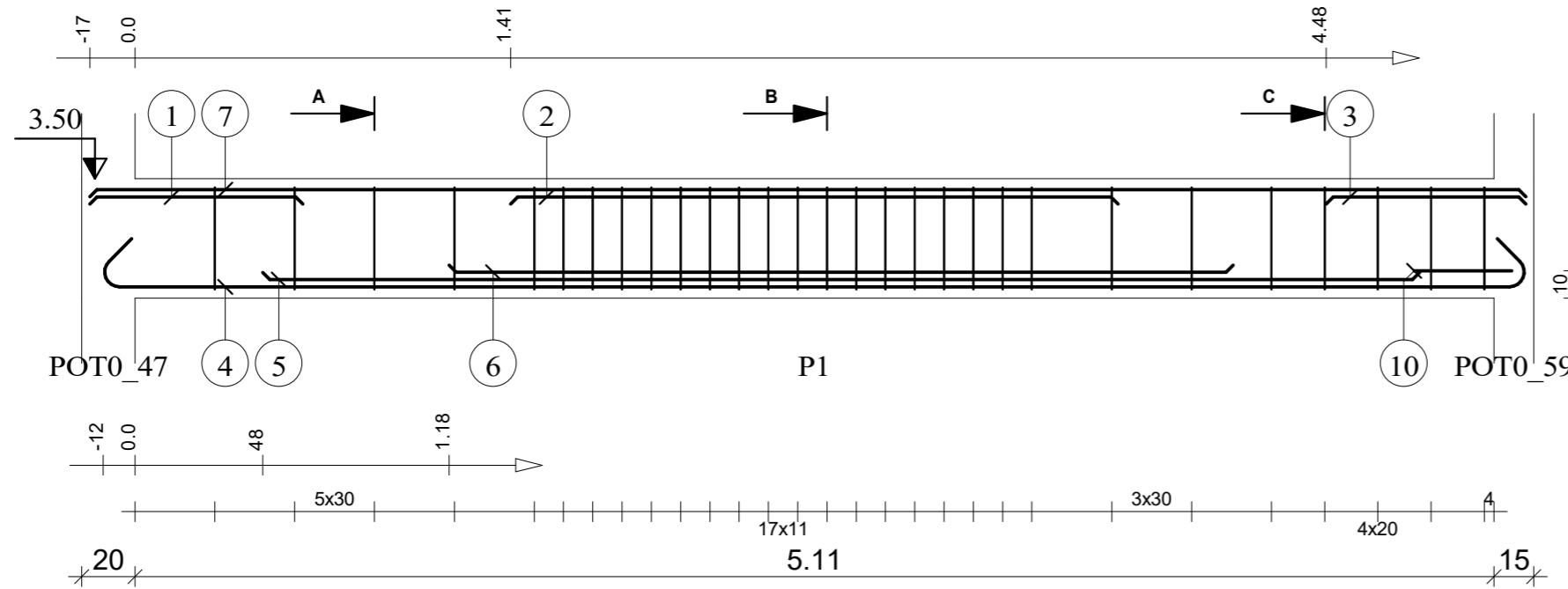
Acier RL 235 = 6.51 kg

Acier HA 400 = 25.2 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature	Code	Forme
①	3HA 12	l=80	00
②	3HA 12	l=2.28	00
③	3HA 12	l=75	00
④	3HA 12	l=5.73	00
⑤	3HA 12	l=4.35	00
⑥	3HA 12	l=2.95	00
⑦	3HA 8	l=5.40	00
⑧	29RL 6	l=1.18	31
⑨	29RL 6	l=90	
⑩	1RL 6	l=85	21



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

Ptr Q(20x45): P1

Section 20x45

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/1

Béton : BETON20 = 0.491 m3

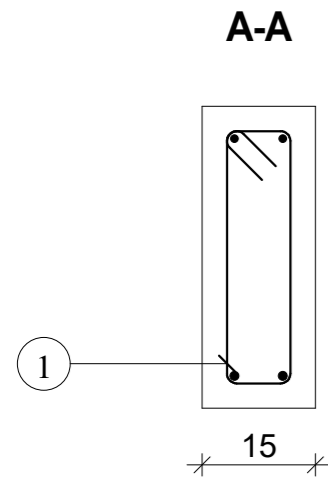
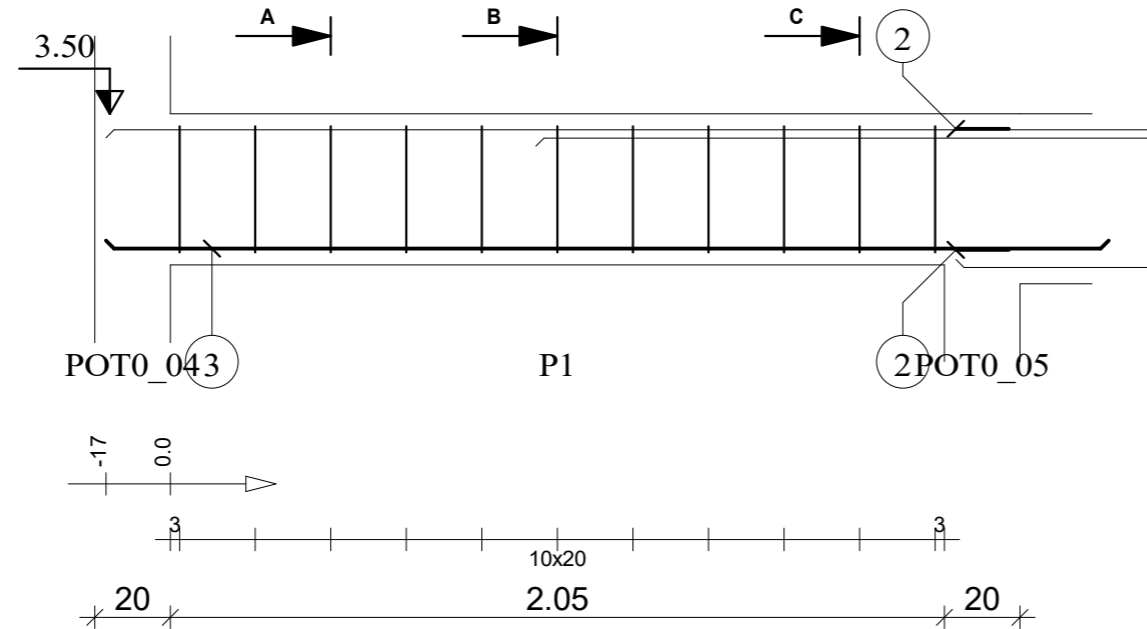
Acier RL 235 = 13.5 kg

Acier HA 400 = 51.3 kg

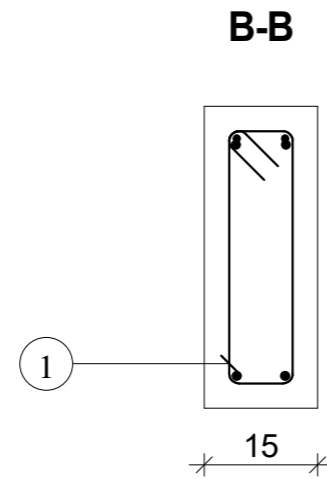
ETAGE COURANT

MINHDU Haut-Nyong_Poutres

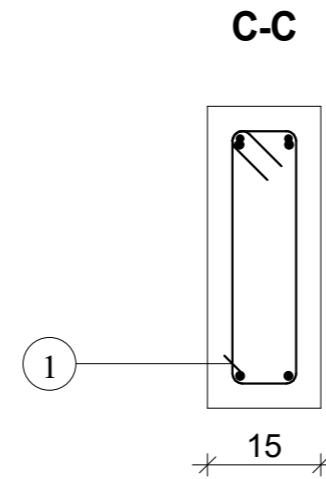
Pos.	Armature		Code	Forme
①	11RL 6	l=98	31	
②	2*2HA 8	l=14	00	
③	2HA 12	l=2.66	00	



40



40



40

Tél.
Fax

Echelle pour la vue 1:20
Echelle pour la section 1:10

Ptr R(15x45): P1
Section 15x40

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

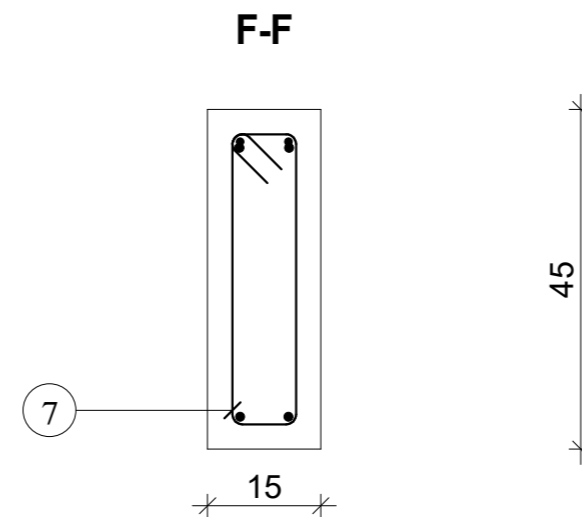
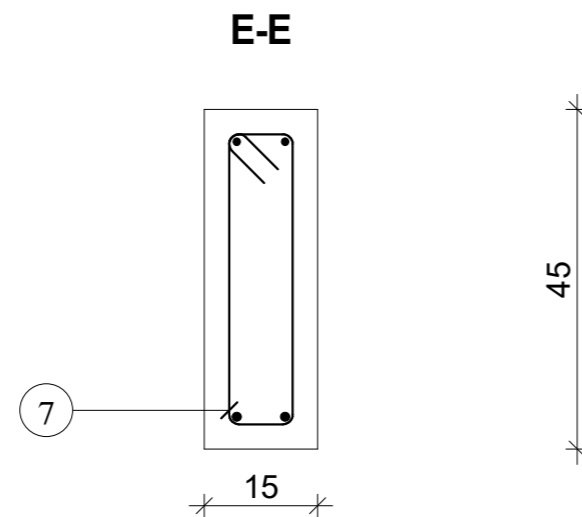
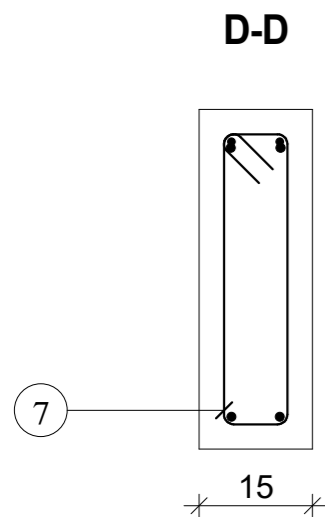
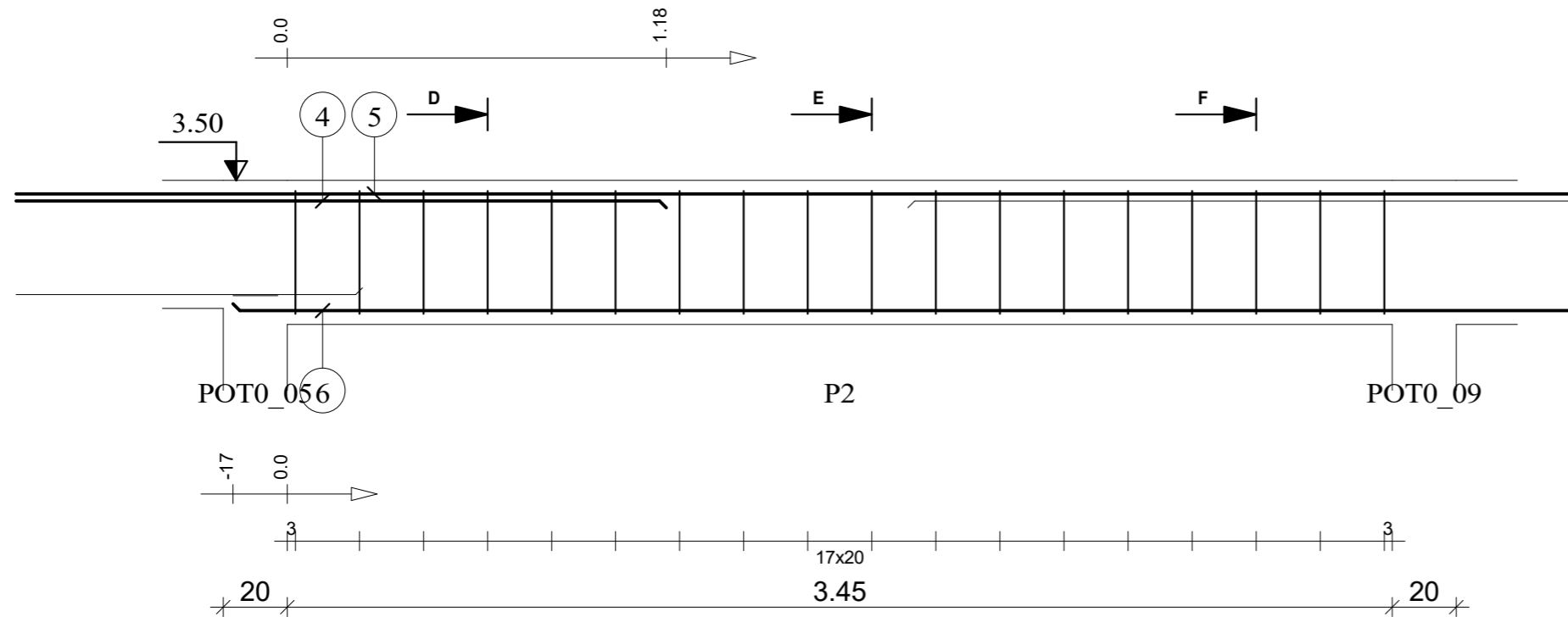
Page 1/3

Béton : BETON20 = 0.142 m³
Acier RL 235 = 2.38 kg
Acier HA 400 = 4.93 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature		Code	Forme
④	2HA 12	l=2.46	00	2.46
⑤	2HA 8	l=9.69	00	9.69
⑥	2HA 12	l=7.63	00	7.44
⑦	18RL 6	l=1.08	31	



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

Ptr R(15x45): P2

Section 15x45

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/3

Béton : BETON20 = 0.247 m³

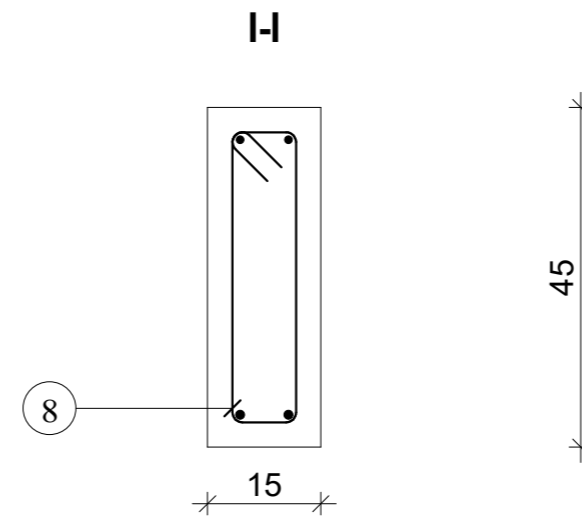
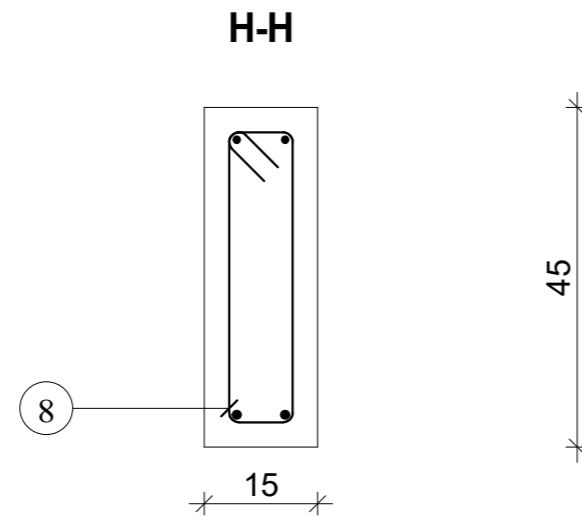
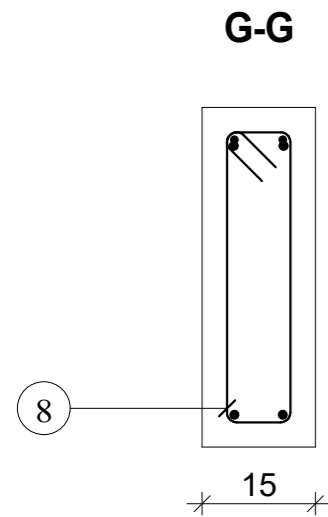
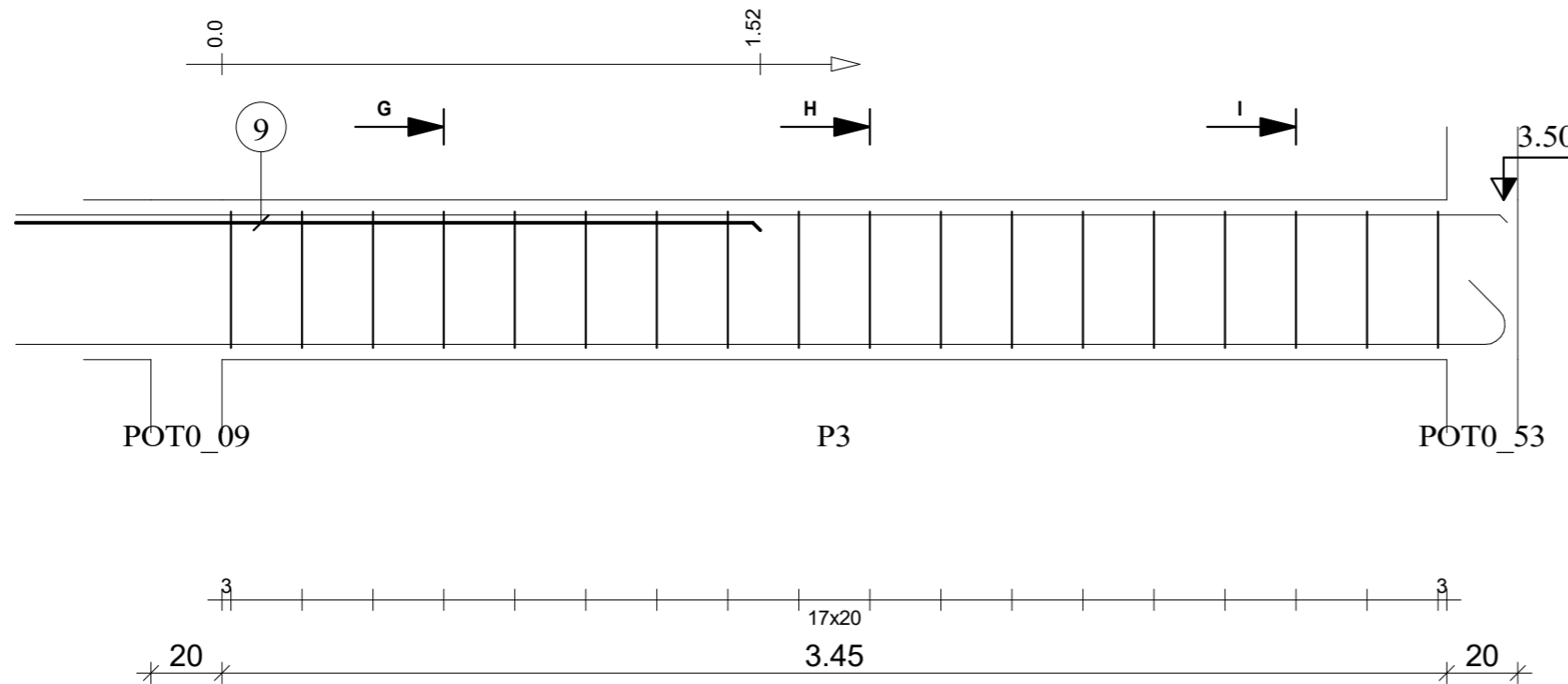
Acier RL 235 = 4.29 kg

Acier HA 400 = 25.6 kg

ETAGE COURANT

MINHDU Haut-Nyong_Poutres

Pos.	Armature	Code	Forme
8	18RL 6	I=1.08	31
9	2HA 12	I=3.23	00



Tél.
Fax

Echelle pour la vue 1:20
Echelle pour la section 1:10

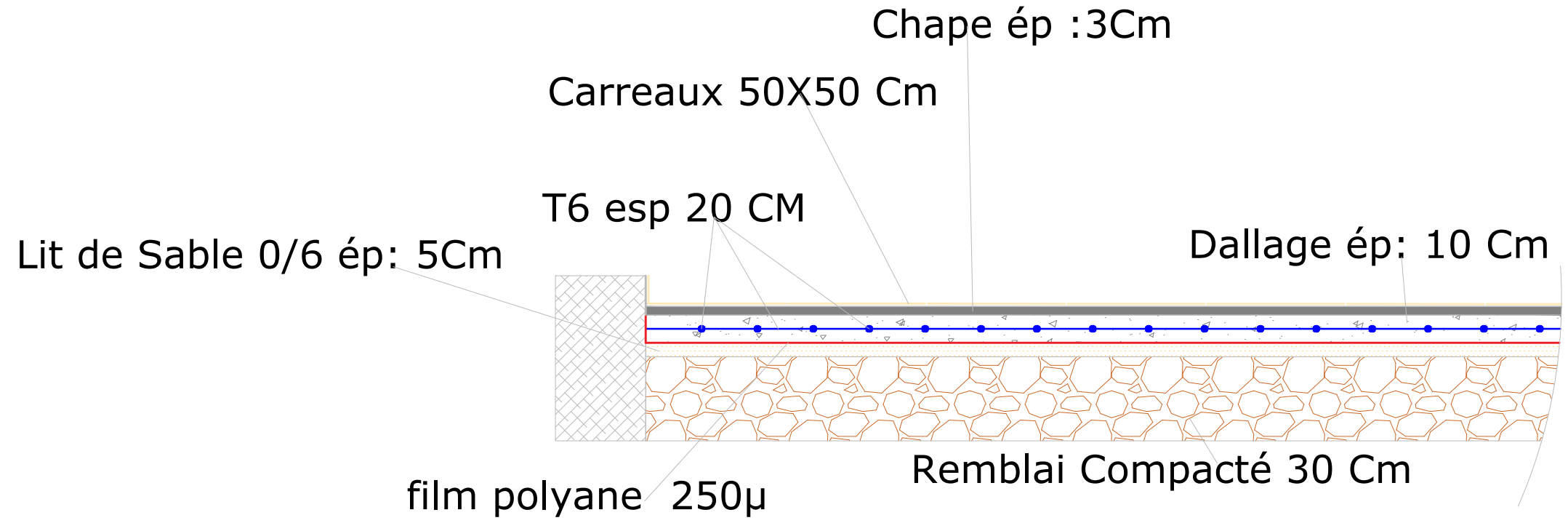
Ptr R(15x45): P3
Section 15x45

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

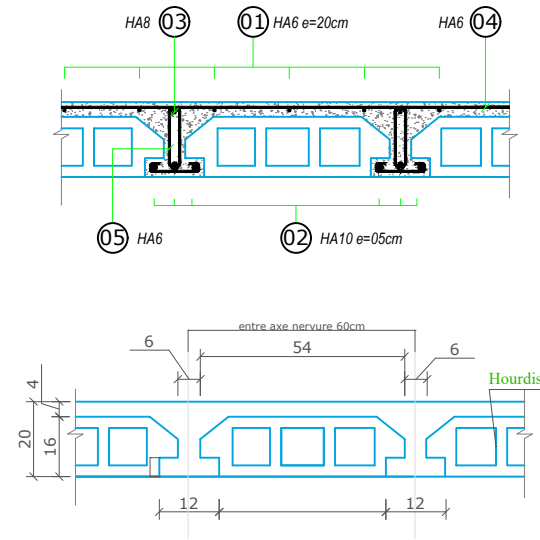
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Béton : BETON20 = 0.253 m3
Acier RL 235 = 4.29 kg
Acier HA 400 = 5.73 kg

DALLE ET DALLAGE



DALLAGE



**COUPE SUR PLANCHER A
CORPS CREUX
Coffrage - ferrailage**

ESCALIERS

DETAIL ESCALIERS

