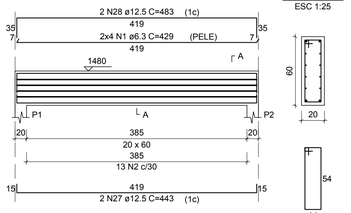
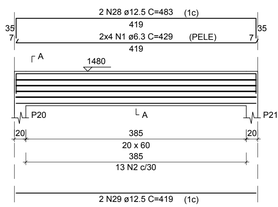
V1,V2
ESC 1:50



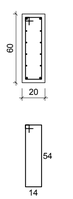
SEÇÃO A-A
ESC 1:25

13 N2 ø6.3 C=148

V3,V6
ESC 1:50

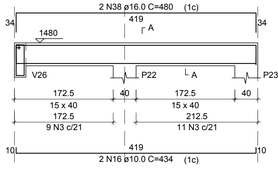


SEÇÃO A-A
ESC 1:25

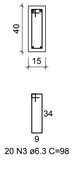


13 N2 ø6.3 C=148

V4,V5
ESC 1:50

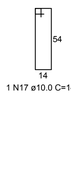


SEÇÃO A-A
ESC 1:25



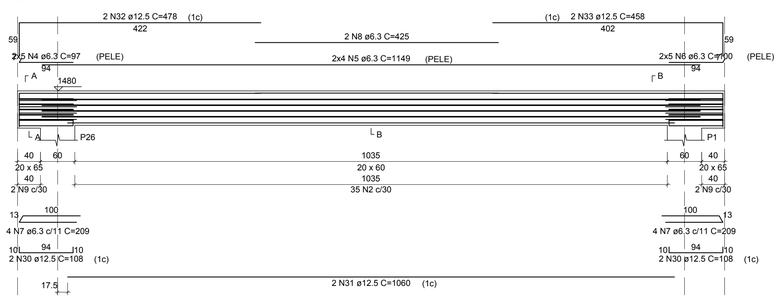
20 N3 ø6.3 C=98

SUSPENSÃO V26
ESC 1:25

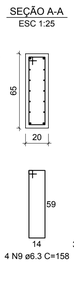


1 N17 ø10.0 C=149

V7
ESC 1:50

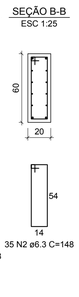


SEÇÃO A-A
ESC 1:25



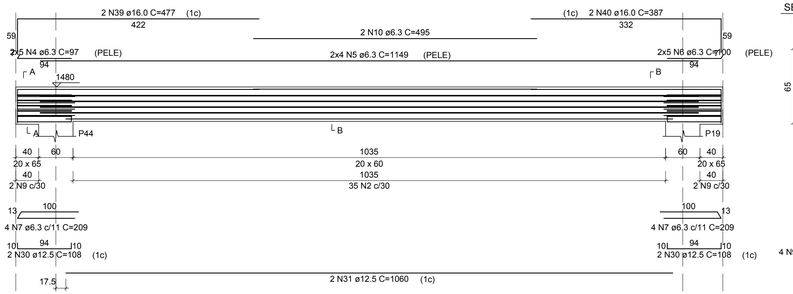
4 N9 ø6.3 C=158

SEÇÃO B-B
ESC 1:25

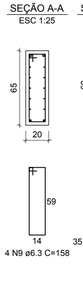


35 N2 ø6.3 C=148

V25
ESC 1:50

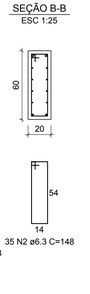


SEÇÃO A-A
ESC 1:25



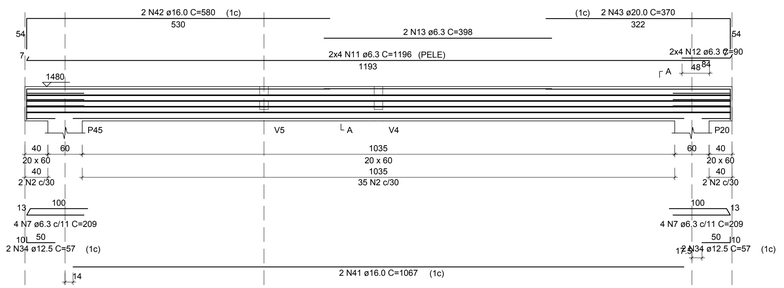
4 N9 ø6.3 C=158

SEÇÃO B-B
ESC 1:25

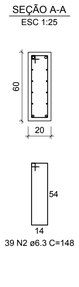


35 N2 ø6.3 C=148

V26
ESC 1:50

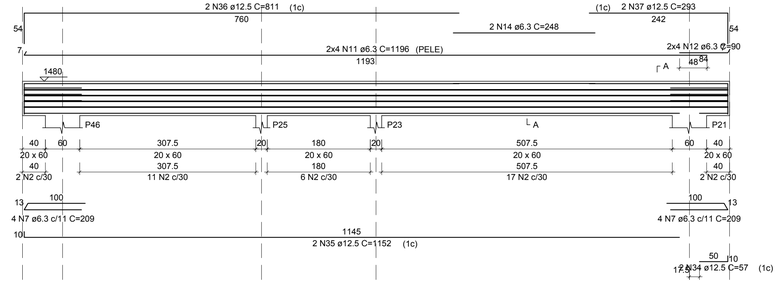


SEÇÃO A-A
ESC 1:25

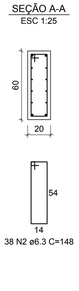


39 N2 ø6.3 C=148

V27
ESC 1:50

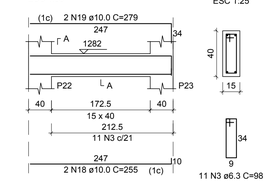


SEÇÃO A-A
ESC 1:25



38 N2 ø6.3 C=148

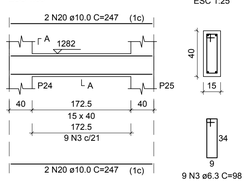
V28
ESC 1:50



SEÇÃO A-A
ESC 1:25

11 N3 ø6.3 C=98

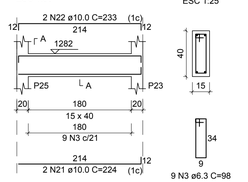
V29
ESC 1:50



SEÇÃO A-A
ESC 1:25

9 N3 ø6.3 C=98

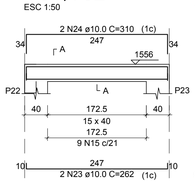
V30
ESC 1:50



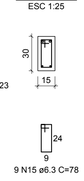
SEÇÃO A-A
ESC 1:25

9 N3 ø6.3 C=98

V31,V32
ESC 1:50

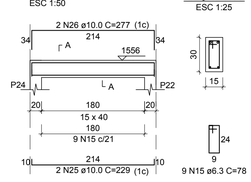


SEÇÃO A-A
ESC 1:25



9 N15 ø6.3 C=78

V33,V34
ESC 1:50



SEÇÃO A-A
ESC 1:25

9 N15 ø6.3 C=78

Relação do aço

2xV1	2xV3	2xV4
V7	V25	V26
V27	V28	V29
V30	2xV31	2xV33

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA50	**1**	**6.3**	**32**	**429**	**13728**
	2	**6.3**	**199**	**148**	**29452**
	3	**6.3**	**69**	**98**	**6762**
	4	**6.3**	**20**	**97**	**1940**
	5	**6.3**	**16**	**1149**	**18384**
	6	**6.3**	**20**	**100**	**2000**
	7	**6.3**	**32**	**209**	**6688**
	8	**6.3**	**2**	**425**	**850**
	9	**6.3**	**8**	**158**	**1264**
	10	**6.3**	**2**	**495**	**990**
	11	**6.3**	**16**	**1196**	**19136**
	12	**6.3**	**16**	**90**	**1440**
	13	**6.3**	**2**	**398**	**796**
	14	**6.3**	**2**	**248**	**496**
	15	**6.3**	**36**	**78**	**2808**
	16	**10.0**	**4**	**434**	**1736**
	17	**10.0**	**2**	**149**	**298**
	18	**10.0**	**2**	**255**	**510**
	19	**10.0**	**2**	**279**	**558**
	20	**10.0**	**4**	**247**	**988**
	21	**10.0**	**2**	**224**	**448**
	22	**10.0**	**2**	**233**	**466**
	23	**10.0**	**4**	**262**	**1048**
	24	**10.0**	**4**	**310**	**1240**
	25	**10.0**	**4**	**229**	**916**
	26	**10.0**	**4**	**277**	**1108**
	27	**12.5**	**4**	**443**	**1772**
	28	**12.5**	**8**	**483**	**3864**
	29	**12.5**	**4**	**419**	**1676**
	30	**12.5**	**8**	**108**	**864**
	31	**12.5**	**4**	**1060**	**4240**
	32	**12.5**	**2**	**478**	**956**
	33	**12.5**	**2**	**458**	**916**
	34	**12.5**	**6**	**57**	**342**
	35	**12.5**	**2**	**1152**	**2304**
	36	**12.5**	**2**	**811**	**1622**
	37	**12.5**	**2**	**293**	**586**
	38	**16.0**	**4**	**480**	**1920**
	39	**16.0**	**2**	**477**	**954**
	40	**16.0**	**2**	**387**	**774**
	41	**16.0**	**2**	**1067**	**2134**
	42	**16.0**	**2**	**580**	**1160**
	43	**20.0**	**2**	**370**	**740**

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	1067.4	287.3
	10.0	93.2	63.2
	12.5	191.5	202.8
	16.0	69.5	120.5
	20.0	7.4	20.1

PESO TOTAL (kg)	
CA50	693.9

Volume de concreto (C-25) = 9.43 m³
Área de forma = 116.16 m²

NOTAS GERAIS

- Concreto a usar: fck = 25,0 MPa.
- Medidas expressas em centímetros. Escalas indicadas no desenho.
- Não tomar medidas do desenho com régua (escala).
- Observar comprimentos mínimos de traspasse (emendas e esperas) exigidos.
- Obedecer cobrimentos das armaduras segundo as normas da ABNT e o projeto.
- Dispor armaduras de pele (costela) quando se indicar no desenho da ferragem.
- Jamais alterar a distribuição das armaduras de pilares nas respectivas seções.
- Projeto de fundações conforme RELATÓRIO DE SONDAGEM N. 145.SO.2009, fornecido por PROSONDA FUNDAÇÕES LTDA, em 24/11/2009.
- No caso de dúvidas, ou na suspeita de engano no desenho, contatar o calculista.

Configuração de Penas
Colocar em TODAS as Penas: - **Espessura = 0.05** - **Color = Black** - **GrayScale = Off**
Com exceção das seguintes:

Pena	Espessura
1	0.10
2	0.20
3	0.30
4	0.40
5	0.50
6	0.60
7	0.15
8	0.05

N°	Comentário	Data	Autor
00	EMISSÃO INICIAL	12/10/2017	Manassés

UNIVERSIDADE FEDERAL DO AMAZONAS

Prefeitura da UFAM

CAMPUS
CAMPUS UNIVERSITÁRIO – SETOR NORTE

OBRA
FLET – FACULDADE DE LETRAS

TÍTULO
PROJETO DE ESTRUTURA EM CONCRETO ARMADO
VIGAS PAVIMENTO COBERTURA

AUTOR DO PROJETO	ART:	DATA	ESCALA	ARQUIVO
Manassés Ibernon Engº Civil – CREA 11116/D-AM	AM21070099848	12/10/2017	INDICADA	01-EC-023.cad

PRANCHA 01.EC.023