

[illegible]

Ver armadura da viga

Laje

Malha

Vigota

Bloco/molde

Colocar vigota, se maciço > 10 cm

Bloco/molde

Colocar vigota, se maciço > 10 cm

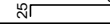


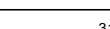
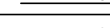
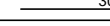



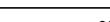
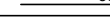
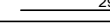

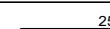
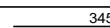
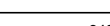
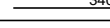
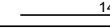



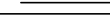
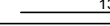
Vigota

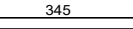
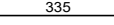
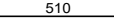
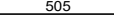
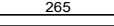















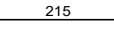








Varrel

Nota:
Se a flexão transversal for importante, reforçar a laje transversalmente com cintas a cada 2 m. (Ver detalhes EHU020)

Diagrama de uma laje de concreto armado sobre vigas, mostrando detalhes de construção e dimensionamento:

- transversal**: Indica a seção transversal da laje.
- Laje**: Indica a laje de concreto armado.
- Malha + arm. negativa**: Indica a malha e a armadura negativa.
- Vigota**: Indica a vigota de concreto armado.
- Bloco/molde**: Indica o bloco ou molde utilizado na construção.
- Maciçado $\geq 10\text{cm}$** : Indica a espessura do maciço de concreto.
- Ver armadura da viga**: Indica a verificação da armadura da viga.
- Varredor**: Indica o varredor utilizado na construção.
- 10/10 corrido**: Indica o espaçamento das barras de armadura.
- 5 cm**: Indica a espessura da camada de concreto.
- $\geq 15\text{cm}$** : Indica a espessura mínima da laje.

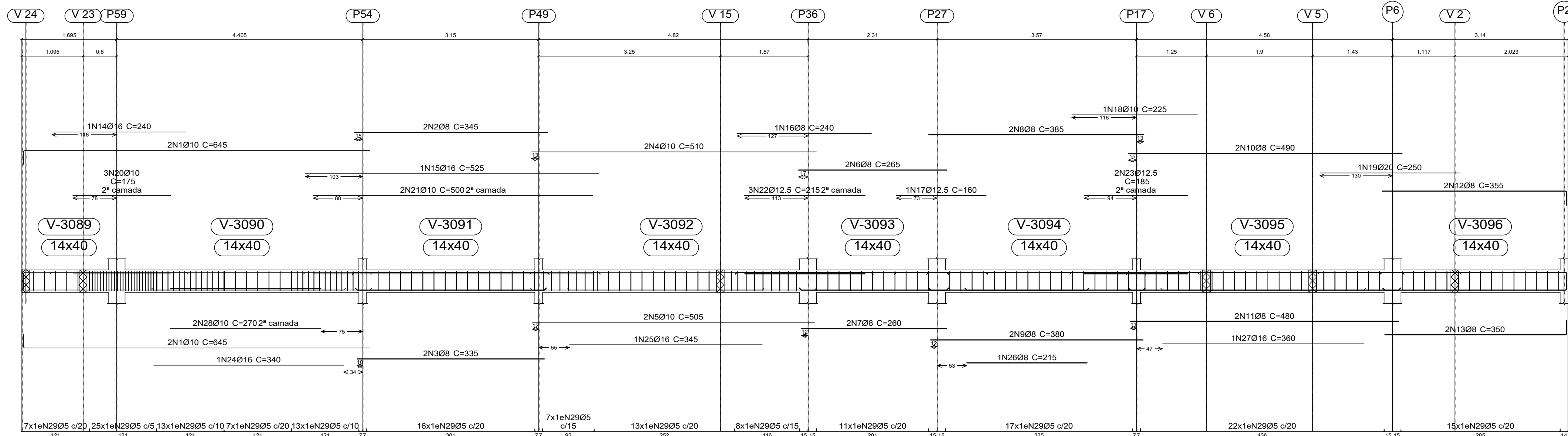
Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 7	1	Ø8	2		325	650	2.6	
	2	Ø8	2		320	640	2.5	
	3	Ø8	4		315	1260	5.0	
	4	Ø8	2		310	620	2.4	
	5	Ø8	2		305	610	2.4	
	6	Ø8	4		245	980	3.9	
	7	Ø8	2		595	1190	4.7	
	8	Ø8	2		585	1170	4.6	
	9	Ø8	2		300	600	2.4	
	10	Ø8	2		295	590	2.3	
	11	Ø8	2		255	510	2.0	
	12	Ø8	2		250	500	2.0	
	13	Ø8	2		370	740	2.9	
	14	Ø8	2		365	730	2.9	
	15	Ø8	1		140	140	0.6	
	16	Ø10	2		140	280	1.7	
	17	Ø10	1		210	210	1.3	
	18	Ø12.5	1		225	225	2.2	
	19	Ø8	2		135	270	1.1	
	20	Ø6.3	2		170	340	0.8	
	21	Ø8	2		120	240	0.9	
	22	Ø8	1		340	340	1.3	
	23	Ø5	112		96	10752		16.9
					Total+10%:		57.8	18.6

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 kg	CA-60 (kg)
V 43	1	Ø10	4		645	2580	15.9	
	2	Ø8	2		345	690	2.7	
	3	Ø8	2		335	670	2.6	
	4	Ø10	2		510	1020	6.3	
	5	Ø10	2		505	1010	6.2	
	6	Ø8	2		265	530	2.1	
	7	Ø8	2		260	520	2.1	
	8	Ø8	2		385	770	3.0	
	9	Ø8	2		380	760	3.0	
	10	Ø8	2		490	980	3.9	
	11	Ø8	2		480	960	3.8	
	12	Ø8	2		355	710	2.8	
	13	Ø8	2		350	700	2.8	
	14	Ø16	1		240	240	3.8	
	15	Ø16	1		525	525	8.3	
	16	Ø8	1		240	240	0.9	
	17	Ø12.5	1		160	160	1.5	
	18	Ø10	1		225	225	1.4	
	19	Ø20	1		250	250	6.2	
	20	Ø10	3		175	525	3.2	
	21	Ø10	2		500	1000	6.2	
	22	Ø12.5	3		215	645	6.2	
	23	Ø12.5	2		185	370	3.6	
	24	Ø16	1		340	340	5.4	
	25	Ø16	1		345	345	5.4	
	26	Ø8	1		215	215	0.8	
	27	Ø16	1		360	360	5.7	
	28	Ø10	2		270	540	3.3	
	29	Ø5	174		96	16704		26.2
Total+10%:							131.0	28.8

Baldrame
Desenho de vigas
Concreto: C25, em geral
Aço das barras: CA-50 e CA-60
Aço dos estribos: CA-50 e CA-60
Escala vigas 1:50
Escala seções 1:20
Escala aberturas 1:20

Ø5:	0.0	47.4
Ø6.3:	0.9	0.0
Ø8:	84.7	0.0
Ø10:	50.1	0.0
Ø12.5:	14.8	0.0
Ø16:	31.5	0.0
Ø20:	6.8	0.0
Total:	188.8	47.4

The diagram shows a T-shaped cross-section. The vertical leg has a height of 40 and a width of 14. The horizontal leg has a width of 5. The vertical leg contains a rectangular hole with a width of 10 and a height of 20, centered horizontally and vertically. The horizontal leg is attached to the right side of the vertical leg, centered vertically.



Escala vigas 1:50
 Escala seções 1:20

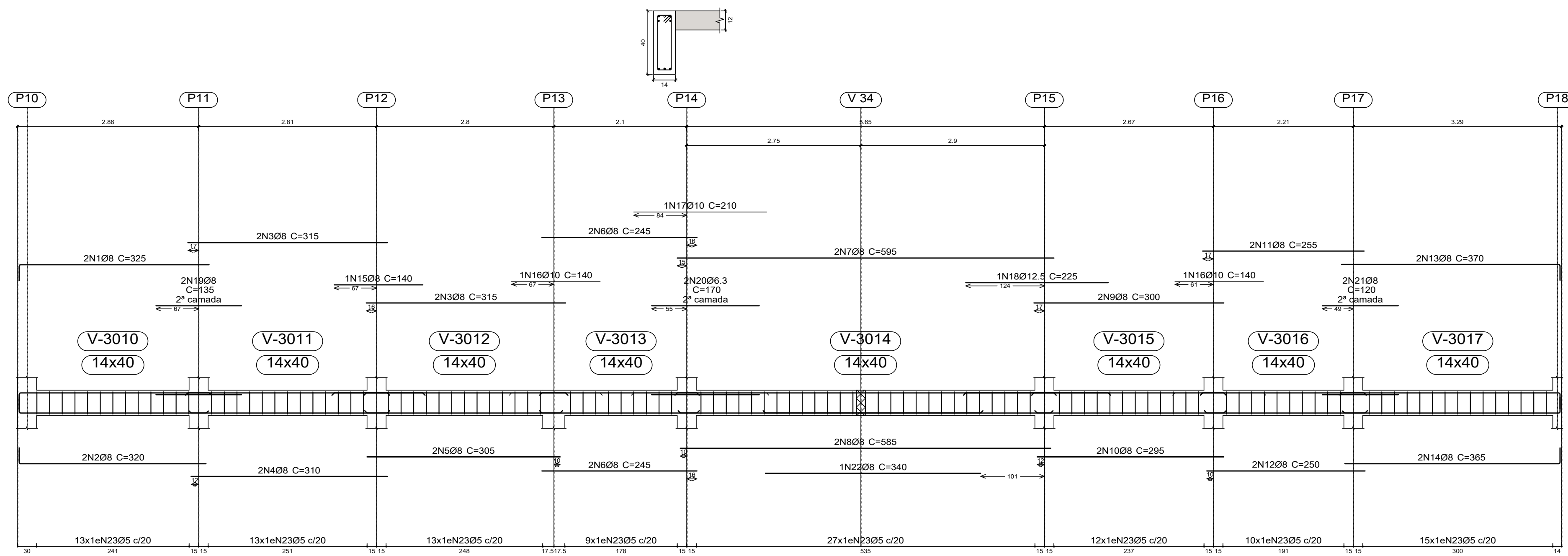


Diagrama de um sistema de drenagem para uma laje de concreto armado. A laje tem uma espessura de 200 mm. O sistema de drenagem é composto por uma rede de drenagem (200 mm de diâmetro) e uma camada de proteção (200 mm de espessura). A rede de drenagem é instalada na base da laje, com uma camada de proteção de 200 mm de espessura. A rede de drenagem é instalada na base da laje, com uma camada de proteção de 200 mm de espessura. A rede de drenagem é instalada na base da laje, com uma camada de proteção de 200 mm de espessura.

FOLHA	ASSUNTO	FOLHA	ASSUNTO
01/14	Vigas de Baldrame Baixo	08/14	Vigas da Cobertura
02/14	Vigas de Baldrame	09/14	Vigas da Cobertura
03/14	Vigas de Baldrame	10/14	Vigas da Cobertura
04/14	Vigas de Baldrame	11/14	Vigas da Cobertura
05/14	Vigas de Baldrame	12/14	Vigas da Cobertura
06/14	Vigas de Baldrame	13/14	Fundo da Caixa
07/14	Vigas de Baldrame	14/14	Tampa da Caixa

OS DESENHOS E MATERIAIS QUE CONSTAM DESTA PLANTA, CONSTITUEM TRABALHOS ORIGINAIS DO ENGENHEIRO/PROJETISTA. ESTES TRABALHOS NÃO PODEM SER DUPLICADOS OU UTILIZADOS SEM O CONSENTIMENTO POR ESCRITO DO PROJETISTA.

		REPÚBLICA FEDERATIVA DO BRASIL ESTADO DE SANTA CATARINA MUNICÍPIO DE PESCARIA BRAVA	
Título			
PROJETO ESTRUTURAL			
Referência	Conteúdo		
PROJETO UBS TIPO II - SERTÃO DA ESTIVA	DETALHE DA VIGAS (BALDRAME), VIGAS: V7 e V43.		
ÁREA DO TERRENO = 1.248,40m²			
ÁREA DO PROJETO= 409,07m²			
Endereço da Obra			
RUA CECÍLIO JOÃO CARDOSO - SERTÃO DA ESTIVA - PESCARIA BRAVA /SC			
Associado	Resp. Projeto		
MUNICÍPIO DE PESCARIA BRAVA CNPJ/MF - 16.780.795/0001-38		MICHEL FRANCONI DA SILVA Engenheiro Civil - CREA/SC nº 0703068	
	Desenho	Data	Escala
	MICHEL FRANCONI DA SILVA Art. Nº Ticket Nº	NOVEMBRO/2022 Nome do Arquivo	INDICADA Folha Nº
	0000000-0	202252618	Est. _UBS Sertão de Estiva