



P15	P16	P17	C1			
			Q1	Q2	Q3	Q4
C40	AGE	N	DIAM (mm)	QUANT	CUNIT	COTAL (cm)
	1	5.0	8	129	68	8772
	2	5.0	5	56	58	448
	3	5.0	67	148	19	9916
	4	5.0	134	29	3866	29
	5	5.0	4	136	54	544
	6	5.0	8	26	288	288
	7	10.0	16	60	960	60
	8	10.0	28	300	8400	300
	9	10.0	16	200	3200	200
	10	10.0	16	VAR	VAR	VAR
	11	12.5	4	400	1200	400
12	12.5	4	300	160	300	

Relação do aço

P15	P16	P17																																																																																																	
<table><tr><th>AQO</th><th>N</th><th>DIAM</th><th>QUANT</th><th>CUMT</th></tr><tr><td>CA60</td><td>1</td><td>10.0</td><td>129</td><td>58</td></tr><tr><td></td><td>2</td><td>5.0</td><td>8</td><td>56</td></tr><tr><td></td><td>3</td><td>5.0</td><td>67</td><td>148</td></tr><tr><td></td><td>4</td><td>5.0</td><td>134</td><td>29</td></tr><tr><td></td><td>5</td><td>5.0</td><td>4</td><td>136</td></tr><tr><td></td><td>6</td><td>5.0</td><td>4</td><td>136</td></tr><tr><td>CA50</td><td>7</td><td>10.0</td><td>16</td><td>60</td></tr><tr><td></td><td>8</td><td>10.0</td><td>28</td><td>300</td></tr><tr><td></td><td>9</td><td>10.0</td><td>16</td><td>200</td></tr><tr><td></td><td>10</td><td>10.0</td><td>16</td><td>VAR</td></tr><tr><td></td><td>11</td><td>12.5</td><td>4</td><td>40</td></tr><tr><td></td><td>12</td><td>12.5</td><td>4</td><td>40</td></tr></table>	AQO	N	DIAM	QUANT	CUMT	CA60	1	10.0	129	58		2	5.0	8	56		3	5.0	67	148		4	5.0	134	29		5	5.0	4	136		6	5.0	4	136	CA50	7	10.0	16	60		8	10.0	28	300		9	10.0	16	200		10	10.0	16	VAR		11	12.5	4	40		12	12.5	4	40	<table><tr><th>AQO</th><th>DIAM</th><th>QUANT</th><th>CUMT</th></tr><tr><td>CA60</td><td>10.0</td><td>137</td><td>92.9</td></tr><tr><td>CA50</td><td>10.0</td><td>136</td><td>14.4</td></tr><tr><td>CA40</td><td>5.0</td><td>237.8</td><td>40.3</td></tr></table>	AQO	DIAM	QUANT	CUMT	CA60	10.0	137	92.9	CA50	10.0	136	14.4	CA40	5.0	237.8	40.3	<table><tr><th>AQO</th><th>DIAM</th><th>QUANT</th><th>PESO + 10 %</th></tr><tr><td>CA60</td><td>10.0</td><td>137</td><td>92.9</td></tr><tr><td>CA50</td><td>10.0</td><td>136</td><td>14.4</td></tr><tr><td>CA40</td><td>5.0</td><td>237.8</td><td>40.3</td></tr></table>	AQO	DIAM	QUANT	PESO + 10 %	CA60	10.0	137	92.9	CA50	10.0	136	14.4	CA40	5.0	237.8	40.3
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Resumo do apó																																																																																																			

Volume de concreto (C-30) = 1.64 m³
Área de forma = 26.17 m²

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[illegible]

viaVOZ

CONTRATANTE: PREFEITURA MUNICIPAL DE JOÃO NEIVA

PROGRAMA:
REFORMA E AMPLIAÇÃO DA ANTIGA EMEI HILDA BRITO

MUNICÍPIO/ÁREA:

JOÃO NEIVA / ES

PROJETO ESTRUTURAL

DETAIHE

ARRANQUE PILARES / PILARES P15-P16-P17

DATA:	ESCALA:
DEZEMBRO/2018	INDICADA

4.18