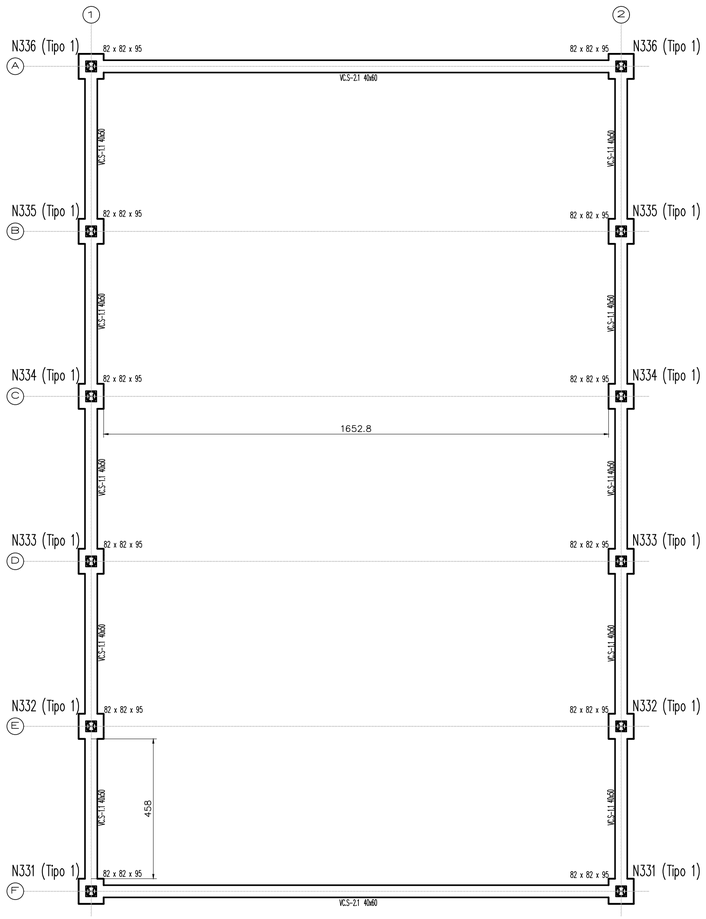
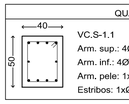
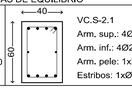


11 LOCAÇÃO DA FUNDAÇÃO

ESCALA 1:100

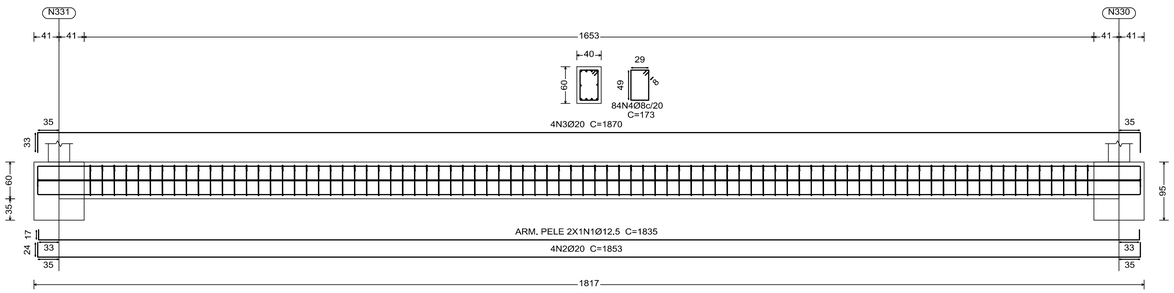
QUADRO DE VIGAS DE EQUILÍBRIO	
	VC.S-1.1 Arm. sup.: 4Ø16 CA-50 Arm. inf.: 4Ø16 CA-50 Arm. pele: 1x2Ø12.5 CA-50 Estribos: 1xØ8 CA-50c/20
	VC.S-2.1 Arm. sup.: 4Ø20 CA-50 Arm. inf.: 4Ø20 CA-50 Arm. pele: 1x2Ø12.5 CA-50 Estribos: 1xØ8 CA-50c/20

Quadro de arranques		
Referências	Pernos de Placas de Ancoragem	Dimensão de Placas de Ancoragem
N336, N335, N334, N333, N332, N331, N330, N329, N328, N327, N326 e N325	4 Parafusos Ø 25.4	Placa base (350x350x12)

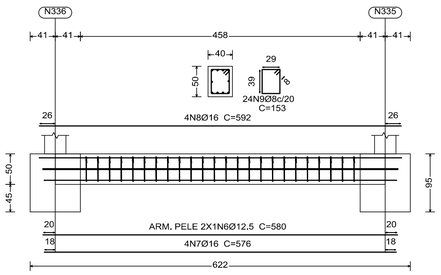
Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
VC.S-2.1 [N336-N336] VC.S-2.1 [N331-N331]	1	Ø12.5	2		1835		1835	3670	35.3	
	2	Ø20	4	24	1805	24	1853	7412	182.8	
	3	Ø20	4	33	1804	33	1870	7480	184.5	
	4	Ø8	84		173		173	14532	57.4	
								Total:	460.0	
								(x2):	920.00	
								Ø8:	71.60	0.0
								Ø12.5:	114.80	0.0
								Ø20:	734.60	0.0
								Total:	920.00	0.0

Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
N336=N335=N334 N333=N332=N331 N330=N329=N328 N327=N326=N325	1	Ø10	2		326		326	652	4.0	
	2	Ø10	2		322		322	644	4.0	
	3	Ø10	5		304		304	1520	9.4	
	4	Ø4.2	1		358		358	358		0.4
	5	Ø4.2	1		357		357	357		0.4
								Total+10%:	19.1	0.9
								(x12):	229.2	10.8
VC.S-1.1 [N336-N335] VC.S-1.1 [N335-N334] VC.S-1.1 [N334-N333] VC.S-1.1 [N332-N333] VC.S-1.1 [N332-N331] VC.S-1.1 [N330-N329] VC.S-1.1 [N329-N328] VC.S-1.1 [N328-N327] VC.S-1.1 [N327-N326] VC.S-1.1 [N326-N325]	6	Ø12.5	2		580		580	1160	11.2	
	7	Ø16	4		576		576	2304	36.4	
	8	Ø16	4		592		592	2368	37.4	
	9	Ø8	24		153		153	3672	14.5	
								Total+10%:	109.5	
								(x10):	1095.0	
								Ø4.2:	0.0	10.8
								Ø8:	160.0	0.0
								Ø10:	229.2	0.0
								Ø12.5:	123.0	0.0
								Ø16:	812.0	0.0
								Total:	1324.2	10.8

VC.S-2.1 [N331-N331] e VC.S-2.1 [N336-N336]



VC.S-1.1 [N336-N335], VC.S-1.1 [N335-N334], VC.S-1.1 [N334-N333], VC.S-1.1 [N332-N333], VC.S-1.1 [N332-N331], VC.S-1.1 [N330-N329], VC.S-1.1 [N329-N328], VC.S-1.1 [N328-N327], VC.S-1.1 [N327-N326] e VC.S-1.1 [N326-N325]



12 DETALHAMENTO DAS VIGAS DE EQUILÍBRIO

ESCALA 1:100

NOTAS	LEGENDA	MAPA–CHAVE	VERIFICAÇÃO	APROVAÇÃO
1 – Medidas em centímetros. 2 – A telha utilizada para fazer a cobertura será a telha metálica galvanizada trapezoidal, tipo simples, esp. 0,50 mm.			VERIF.: CREA: APROV.: CREA:	

CONTRATANTE: PREFEITURA MUNICIPAL DE ENGENHEIRO NAVARRO/MG
CNPJ Nº: 17.697.152/0001-98
Rua José Marques Caldeira, 329
Centro, Engenheiro Navarro/MG,
CEP: 39363-000

CONTRATADA: CARVALHO AMARAL ENGENHARIA
CNPJ Nº: 16.783.066/0001-35
Avenida Mestra Fininha, nº 726,
1º andar, Centro, Montes Claros/MG,
CEP: 39401-074

OBRA: PROJETO ESTRUTURAL
COBERTURA DA QUADRA DA
E. M. EVA ADEILDA DE OLIVEIRA A
DETALHAMENTO DA FUNDAÇÃO

RESPONSÁVEL TÉCNICO: LWAN MATHEUS COSTA SOUZA — CREA: MG 255.542/D

MUNICÍPIO/ÁREA: MUNICÍPIO DE ENGENHEIRO NAVARRO/MG

ENDEREÇO DA OBRA: ESCOLA MUNICIPAL EVA ADEILDA DE OLIVEIRA ALMEIDA

DATA: 24/06/2021 — ESCALA: INDICADA — PRANCHA: 03/05

ARQUIVO: DE–2021.1553–MG.ENV–EST–EXE.001=0