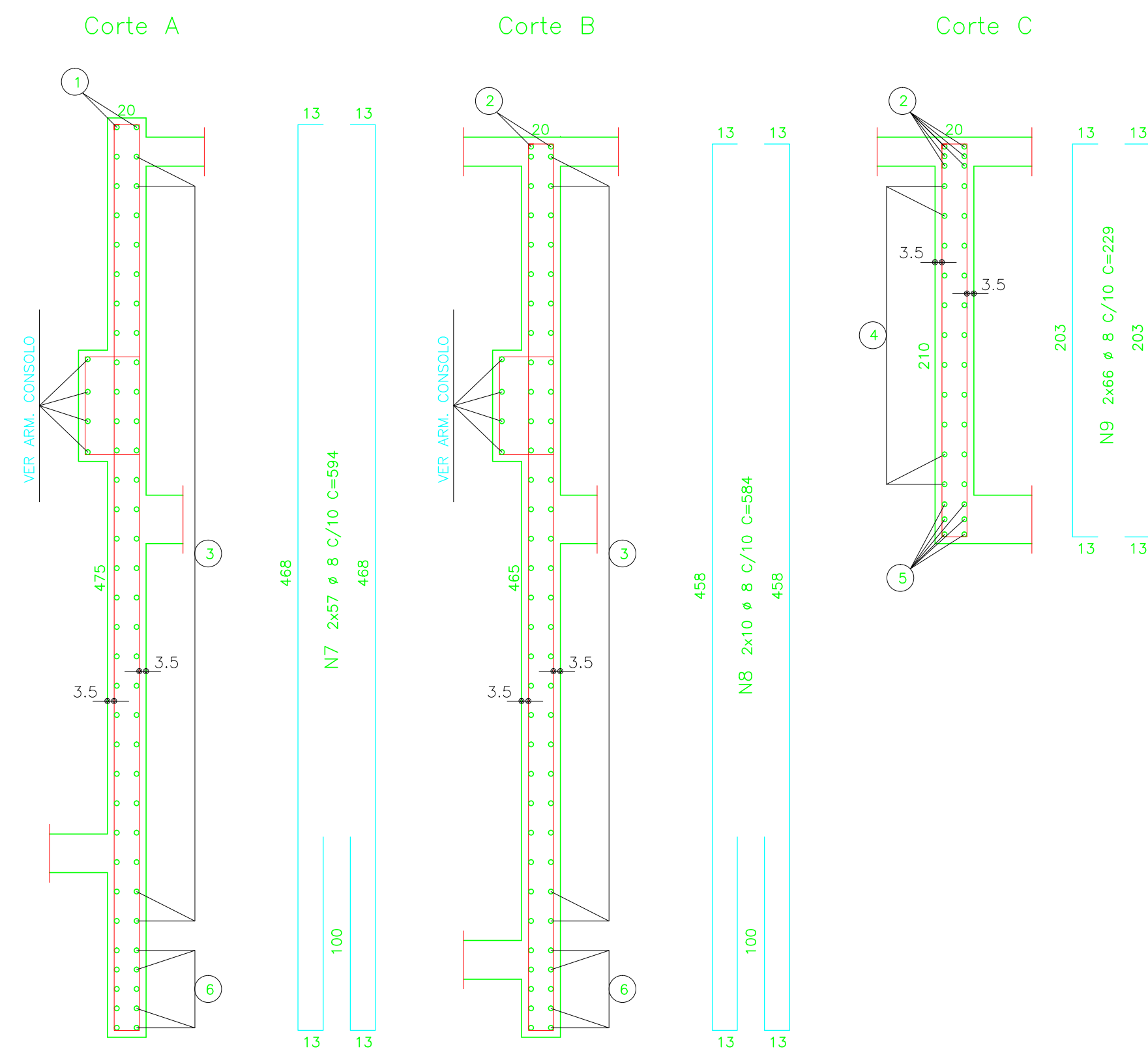
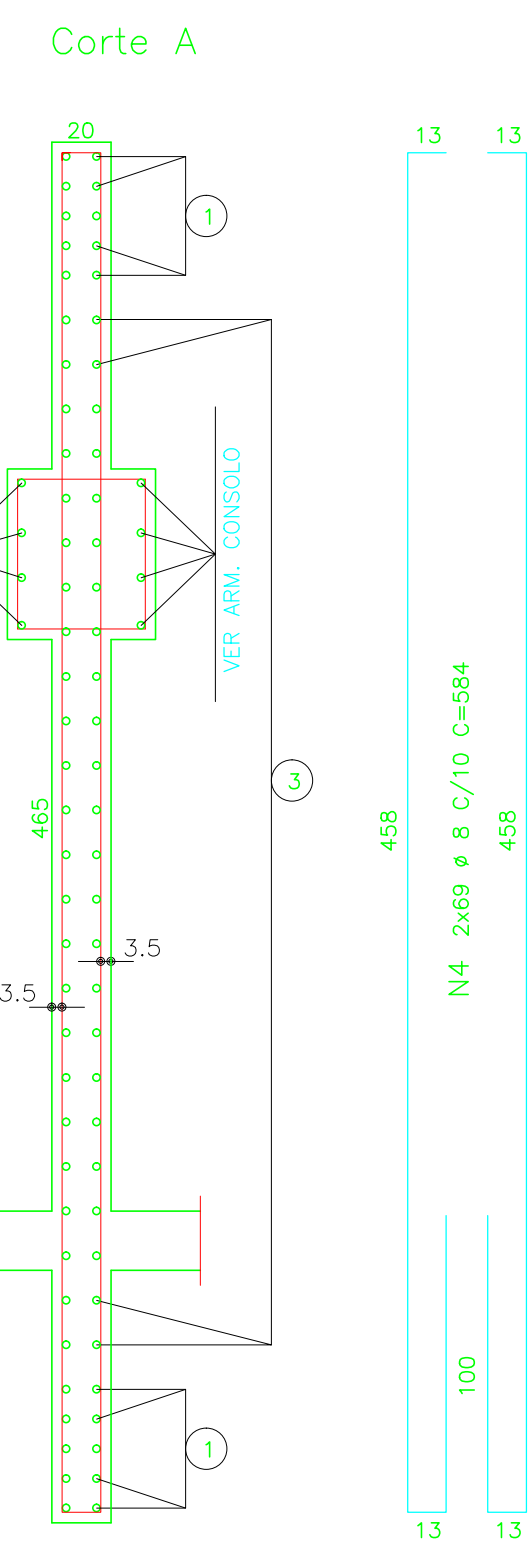


[illegible]

Technical drawing of a rectangular building layout. The overall dimensions are 269 # 6.3 C/10 (880) by 408 # 6.3 C/10 (880). The drawing includes a plan view and a section view.

**Plan View:**

- Overall dimensions: 269 # 6.3 C/10 (880) by 408 # 6.3 C/10 (880).
- Internal dimensions: 263 # 6.3 C/10 (870) by 402 # 6.3 C/10 (870).
- Structural elements: PAR2, PAR1, BL, N1, N2, N3, N4, N5, N6, N7, N8, N9, N10, N11, N12, N13, N14, N15, N16, N17, N18, N19, N20, N21, N22, N23, N24, N25, N26, N27, N28, N29, N30, N31, N32, N33, N34, N35, N36, N37, N38, N39, N40, N41, N42, N43, N44, N45, N46, N47, N48, N49, N50, N51, N52, N53, N54, N55, N56, N57, N58, N59, N60, N61, N62, N63, N64, N65, N66, N67, N68, N69, N70, N71, N72, N73, N74, N75, N76, N77, N78, N79, N80, N81, N82, N83, N84, N85, N86, N87, N88, N89, N90, N91, N92, N93, N94, N95, N96, N97, N98, N99, N100, N101, N102, N103, N104, N105, N106, N107, N108, N109, N110, N111, N112, N113, N114, N115, N116, N117, N118, N119, N120, N121, N122, N123, N124, N125, N126, N127, N128, N129, N130, N131, N132, N133, N134, N135, N136, N137, N138, N139, N140, N141, N142, N143, N144, N145, N146, N147, N148, N149, N150, N151, N152, N153, N154, N155, N156, N157, N158, N159, N160, N161, N162, N163, N164, N165, N166, N167, N168, N169, N170, N171, N172, N173, N174, N175, N176, N177, N178, N179, N180, N181, N182, N183, N184, N185, N186, N187, N188, N189, N190, N191, N192, N193, N194, N195, N196, N197, N198, N199, N200, N201, N202, N203, N204, N205, N206, N207, N208, N209, N210, N211, N212, N213, N214, N215, N216, N217, N218, N219, N220, N221, N222, N223, N224, N225, N226, N227, N228, N229, N230, N231, N232, N233, N234, N235, N236, N237, N238, N239, N240, N241, N242, N243, N244, N245, N246, N247, N248, N249, N250, N251, N252, N253, N254, N255, N256, N257, N258, N259, N260, N261, N262, N263, N264, N265, N266, N267, N268, N269, N270, N271, N272, N273, N274, N275, N276, N277, N278, N279, N280, N281, N282, N283, N284, N285, N286, N287, N288, N289, N290, N291, N292, N293, N294, N295, N296, N297, N298, N299, N300, N301, N302, N303, N304, N305, N306, N307, N308, N309, N310, N311, N312, N313, N314, N315, N316, N317, N318, N319, N320, N321, N322, N323, N324, N325, N326, N327, N328, N329, N330, N331, N332, N333, N334, N335, N336, N337, N338, N339, N340, N341, N342, N343, N344, N345, N346, N347, N348, N349, N350, N351, N352, N353, N354, N355, N356, N357, N358, N359, N360, N361, N362, N363, N364, N365, N366, N367, N368, N369, N370, N371, N372, N373, N374, N375, N376, N377, N378, N379, N380, N381, N382, N383, N384, N385, N386, N387, N388, N389, N390, N391, N392, N393, N394, N395, N396, N397, N398, N399, N400, N401, N402, N403, N404, N405, N406, N407, N408, N409, N410, N411, N412, N413, N414, N415, N416, N417, N418, N419, N420, N421, N422, N423, N424, N425, N426, N427, N428, N429, N430, N431, N432, N433, N434, N435, N436, N437, N438, N439, N440, N441, N442, N443, N444, N445, N446, N447, N448, N449, N450, N451, N452, N453, N454, N455, N456, N457, N458, N459, N460, N461, N462, N463, N464, N465, N466, N467, N468, N469, N470, N471, N472, N473, N474, N475, N476, N477, N478, N479, N480, N481, N482, N483, N484, N485, N486, N487, N488, N489, N490, N491, N492, N493, N494, N495, N496, N497, N498, N499, N500, N501, N502, N503, N504, N505, N506, N507, N508, N509, N510, N511, N512, N513, N514, N515, N516, N517, N518, N519, N520, N521, N522, N523, N524, N525, N526, N527, N528, N529, N530, N531, N532, N533, N534, N535, N536, N537, N538, N539, N540, N541, N542, N543, N544, N545, N546, N547, N548, N549, N550, N551, N552, N553, N554, N555, N556, N557, N558, N559, N560, N561, N562, N563, N564, N565, N566, N567, N568, N569, N570, N571, N572, N573, N574, N575, N576, N577, N578, N579, N580, N581, N582, N583, N584, N585, N586, N587, N588, N589, N590, N591, N592, N593, N594, N595, N596, N597, N598, N599, N600, N601, N602, N603, N604, N605, N606, N607, N608, N609, N610, N611, N612, N613, N614, N615, N616, N617, N618, N619, N620, N621, N622, N623, N624, N625, N626, N627, N628, N629, N630, N631, N632, N633, N634, N635, N636, N637, N638, N639, N640, N641, N642, N643, N644, N645, N646, N647, N648, N649, N650, N651, N652, N653, N654, N655, N656, N657, N658, N659, N660, N661, N662, N663, N664, N665, N666, N667, N668, N669, N670, N671, N672, N673, N674, N675, N676, N677, N678, N679, N680, N681, N682, N683, N684, N685, N686, N687, N688, N689, N690, N691, N692, N693, N694, N695, N696, N697, N698, N699, N700, N701, N702, N703, N704, N705, N706, N707, N708, N709, N710, N711, N712, N713, N714, N715, N716, N717, N718, N719, N720, N721, N722, N723, N724, N725, N726, N727, N728, N729, N730, N731, N732, N733, N734, N735, N736, N737, N738, N739, N740, N741, N742, N743, N744, N745, N746, N747, N748, N749, N750, N751, N752, N753, N754, N755, N756, N757, N758, N759, N760, N761, N762, N763, N764, N765, N766, N767, N768, N769, N770, N771, N772, N773, N774, N775, N776, N777, N778, N779, N780, N781, N782, N783, N784, N785, N786, N787, N788, N789, N790, N791, N792, N793, N794, N795, N796, N797, N798, N799, N800, N8



Technical drawing of a bridge structure, showing a plan view and a cross-section.

**Plan View (Top):**

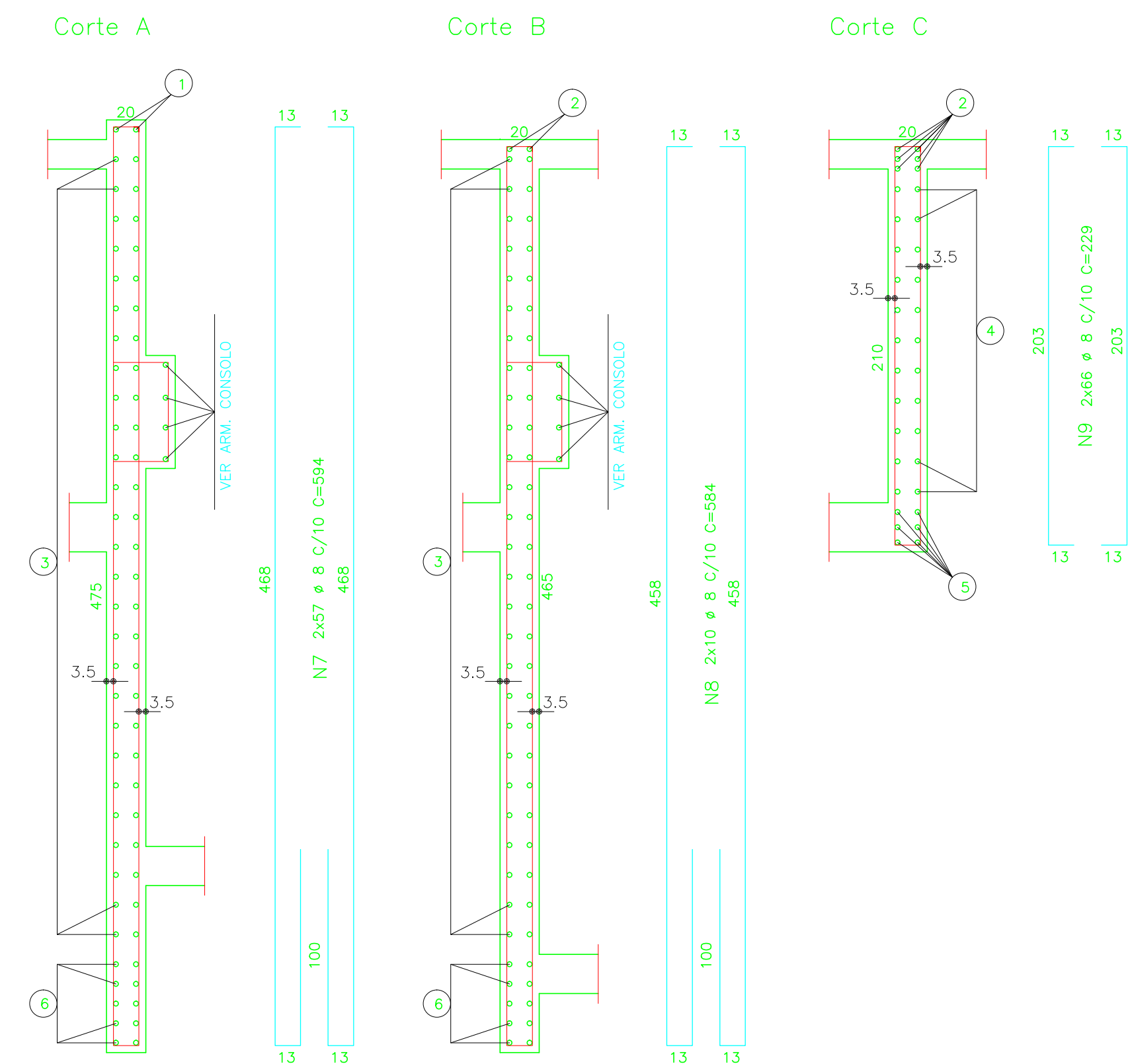
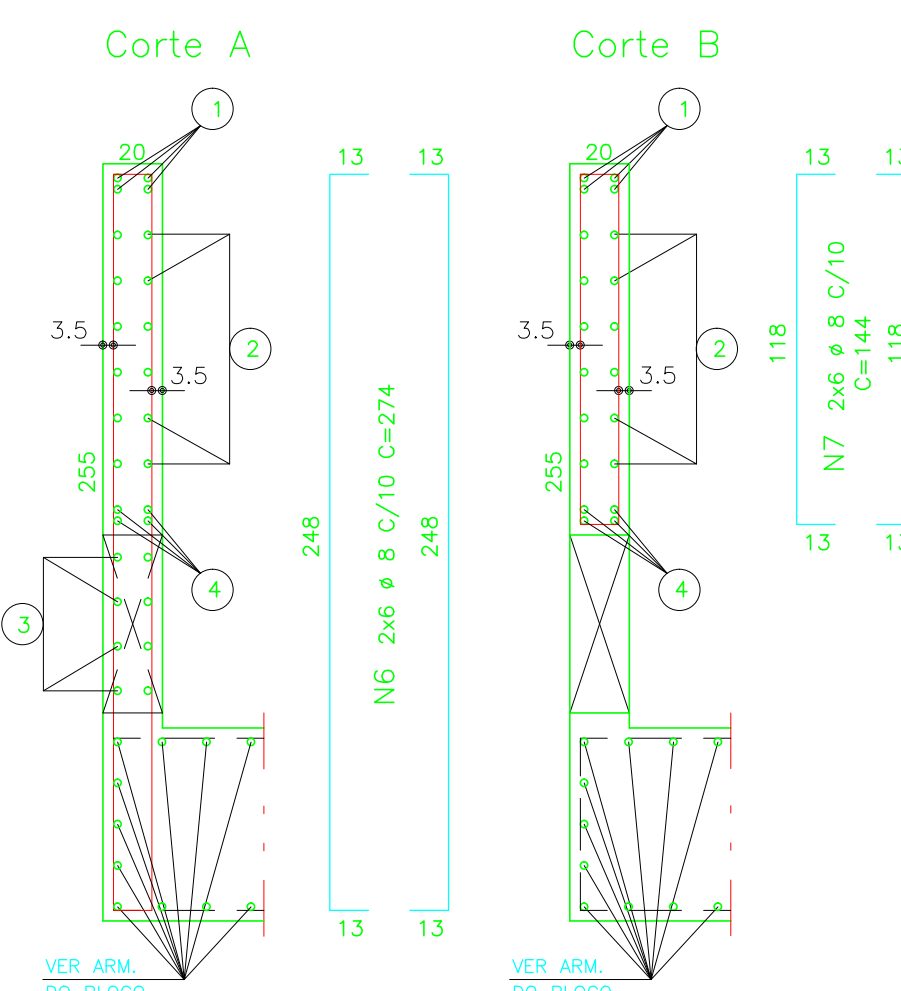
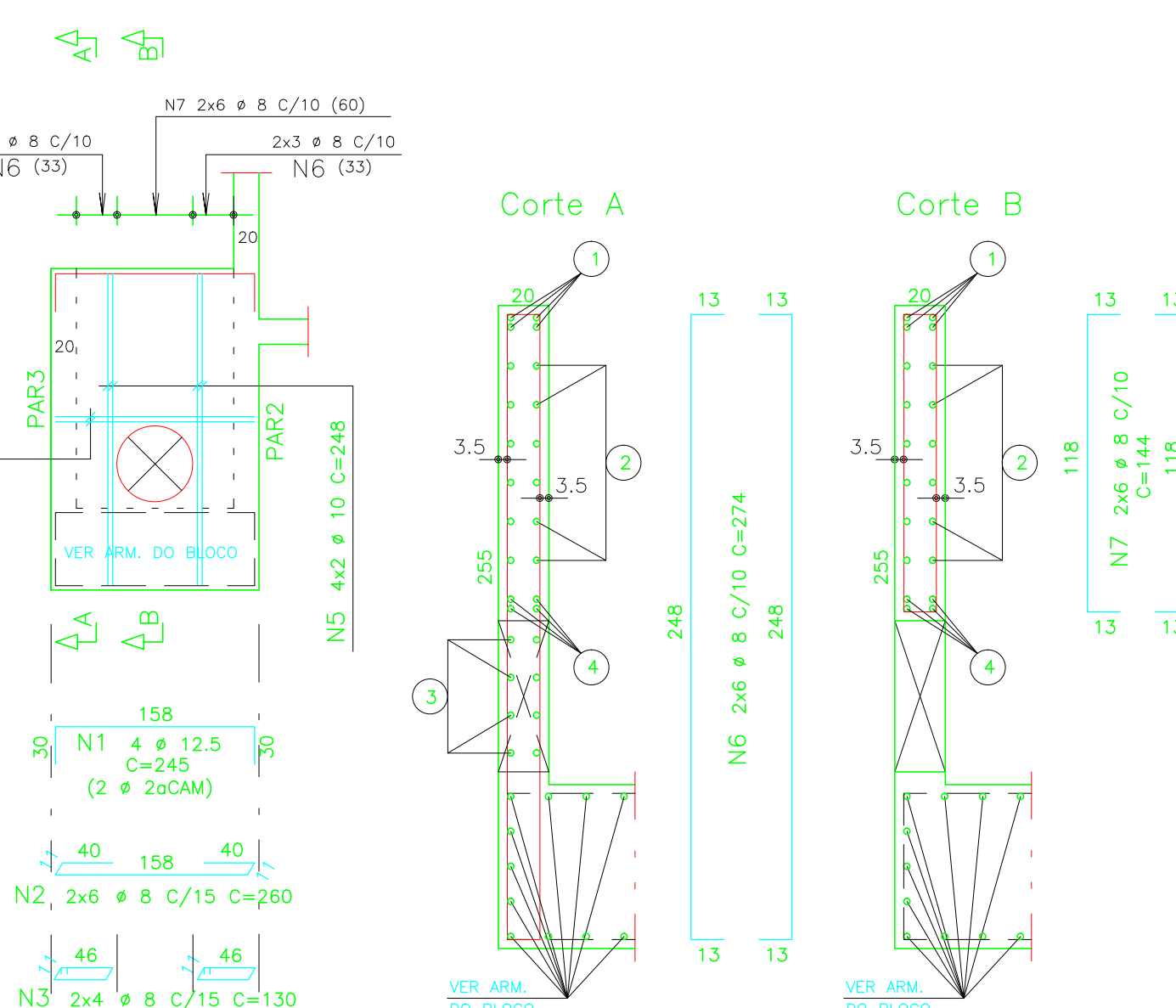
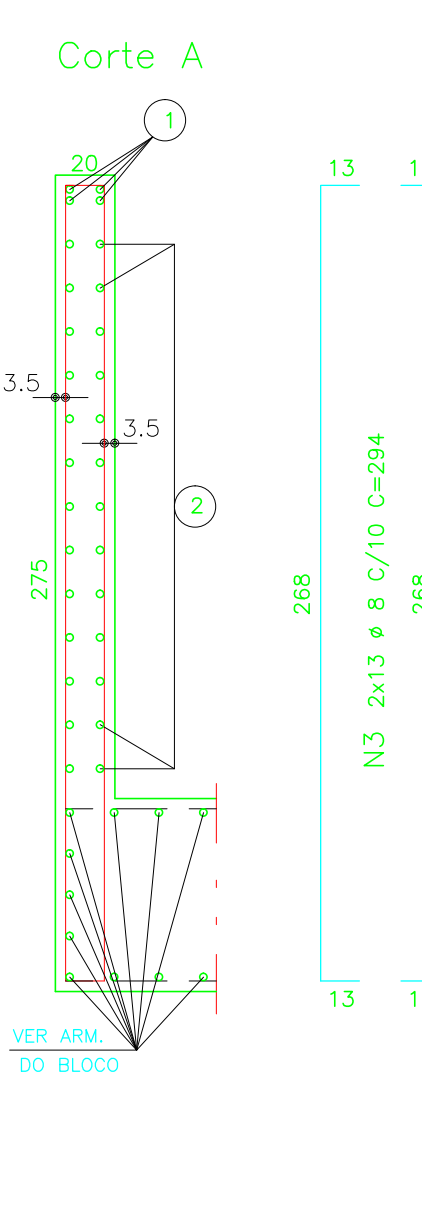
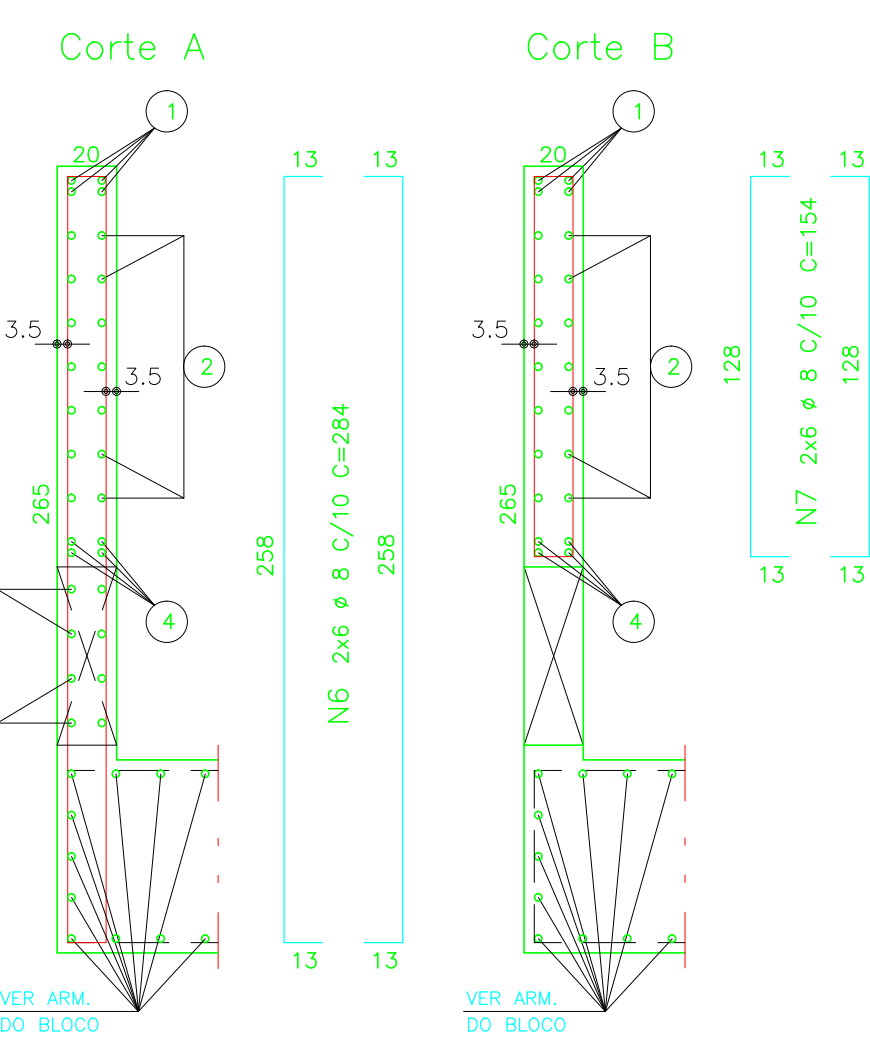
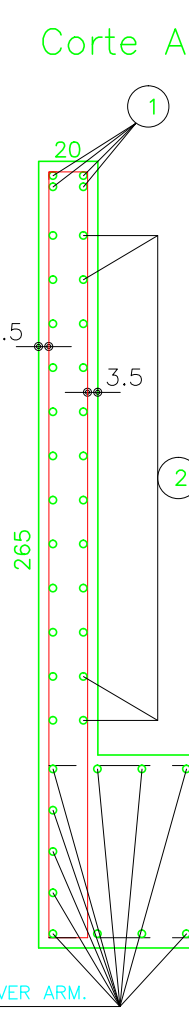
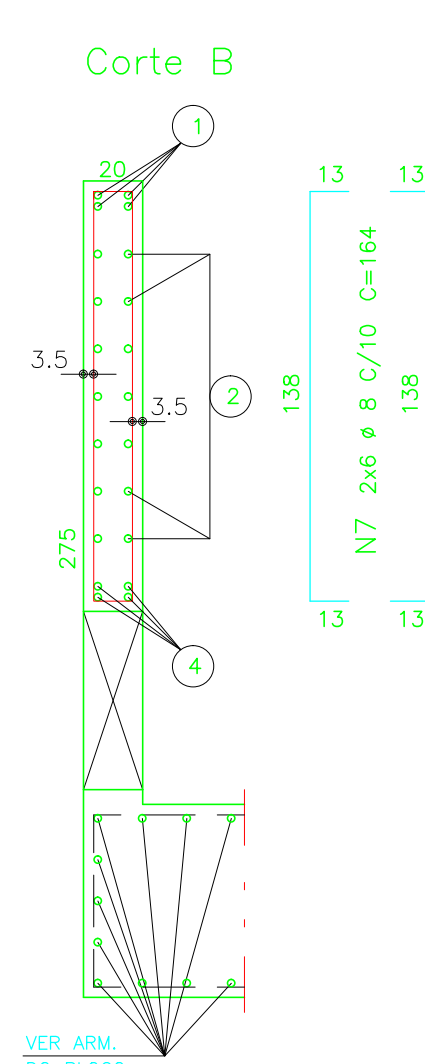
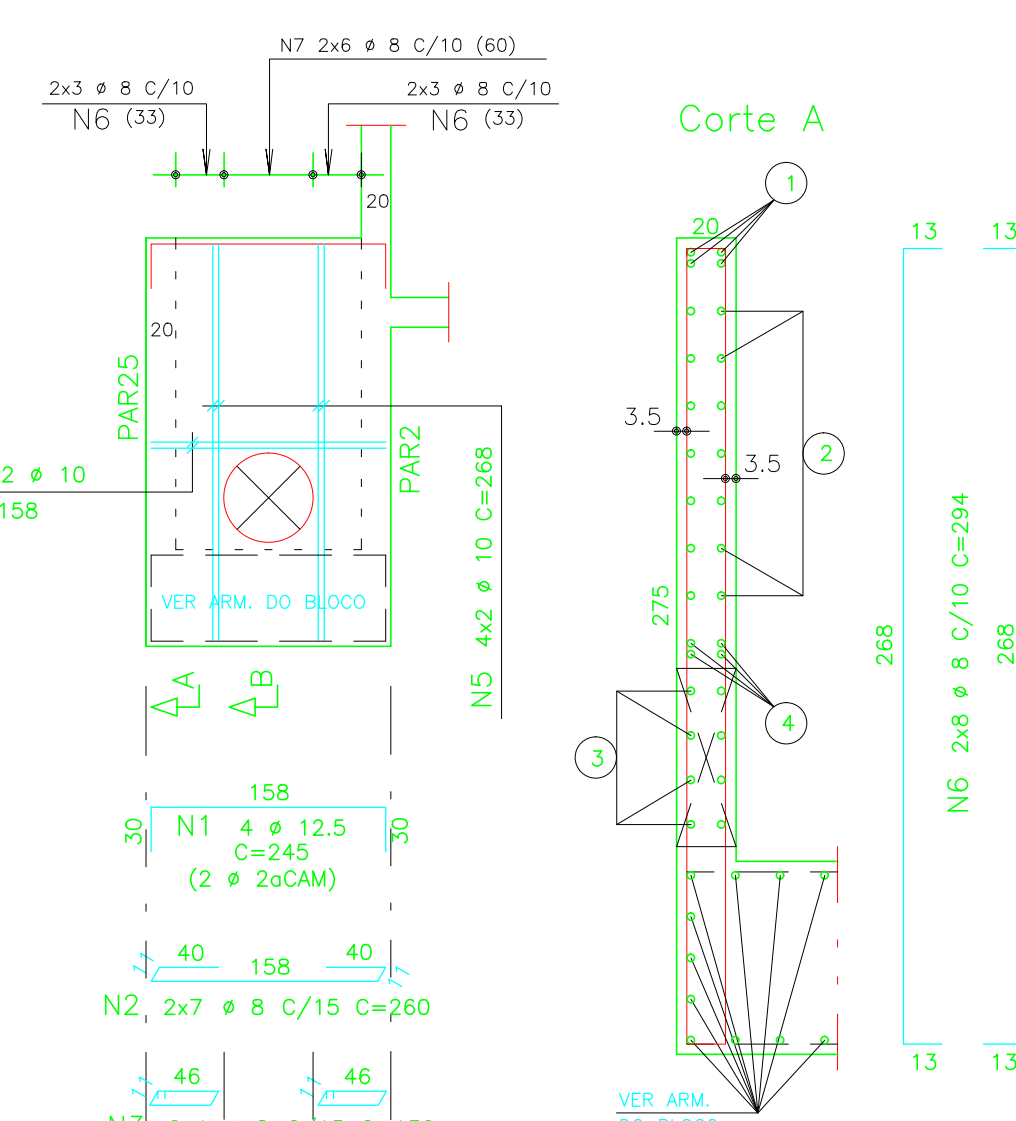
- Overall dimensions: 20m (width) x 20m (length).
- Internal dimensions: 13m (width) x 13m (length).
- Labels: N3, 2-278  $\phi$  8,3 C/10 C=229.

**Cross-section (Bottom):**

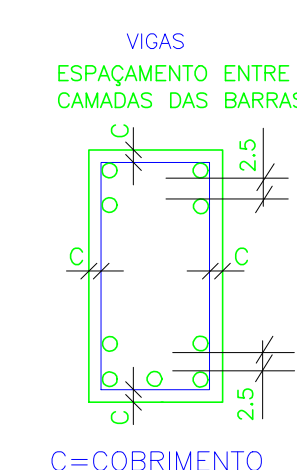
- Overall width: 20m.
- Internal width: 13m.
- Labels: N1, 2  $\phi$  10 C=CDR (TRANSP.=60cm).
- Labels: CORRDO.
- Labels: N2, 2x11  $\phi$  8 C/15 C=CDR (TRANSP.=60cm).
- Labels: CORRDO.
- Labels: N1, 4  $\phi$  10 C=CDR (TRANSP.=60cm).
- Labels: CORRDO.
- Labels: FACE DA PAREDE.
- Dimensions: 80, 80, 20, 20.

	ACO	POS	BIT (mm)	QUANT	COMPROMENTO	
					UNIT (cm)	TOTAL (cm)
PAR5	50A	1	12,5	2	633	1266
	50A	2	16	6	1015	6090
	50A	3	8	54	855	48170
	50A	4	8	84	855	29410
	50A	5	16	6	965	5790
	50A	6	12,5	10	118	133
	50A	7	8	114	59716	1164
	50A	8	8	132	229	30228
	50A	9	8	132	229	30228
	50A	10	10	11	273	300
PAR6=PAR11+PAR14 (3X) (X3)						
50A	1	10	60	855	713	42780
	3	10	33	273	273	12150
	4	8	474	584	584	241776
PAR17	50A	1	12,5	2	633	1266
	50A	2	16	6	1015	6090
	50A	3	8	54	855	48170
	50A	4	8	84	855	29410
	50A	5	16	6	965	5790
	50A	6	12,5	10	118	133
	50A	7	8	114	59716	1164
	50A	8	8	132	229	30228
	50A	9	8	132	229	30228
	50A	10	10	11	273	300
PAR18	50A	1	10	6	-CORR-	18600
	50A	2	8	28	-CORR-	10460
	50A	3	6,3	556	229	127324
PAR19=PAR20 (2X) (X2)						
50A	1	12,5	16	-CORR-	25312	
	2	8	44	-CORR-	25312	
	3	6,3	985	229	110822	
PAR21	50A	1	12,5	4	245	980
	50A	2	8	12	260	3120
	50A	3	10	8	158	632
	50A	4	10	8	158	632
	50A	5	10	8	245	1984
	50A	6	8	24	328	1272
	50A	7	8	12	144	1728
PAR22	50A	1	12,5	4	218	872
	50A	2	8	24	26	6760
	50A	3	8	26	284	7384
PAR23=PAR24 (2X) (X2)						
50A	1	12,5	8	245	1980	
	2	8	28	260	7280	
	3	10	16	158	1320	
	4	10	8	158	1284	
	5	10	8	245	1980	
	6	8	24	284	6816	
	50A	7	8	24	154	3696
PAR25	50A	1	12,5	4	218	872
	50A	2	8	26	26	6760
	50A	3	8	26	294	7644
PAR26=PAR27 (2X) (X2)						
50A	1	12,5	8	245	1960	
	2	8	28	260	7280	
	3	10	16	158	1320	
	4	10	8	158	1284	
	5	10	8	245	1960	
	6	8	32	294	9408	
	50A	7	8	24	164	3912

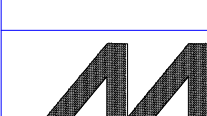
RESUMO AÇO CA 50-60			
AÇO	BIT (mm)	COMPR (m)	PESO (kg)
50A	6,3	2601	650
50A	8	9396	3758
50A	10	900	567
50A	12,5	491	491
50A	16	238	380
Peso Total		50A =	5847 kg

[illegible][illegible][illegible][illegible]

R = RAZO DE DOBRAMENTO					
φ (mm)	10	12.5	16	20	25
R (cm)	2.5	3.5	4	8	10



— AÇO CA-50A,CA-60B

			- AÇO CA-50A,CA-60B	
1	ALTERADO DETALHAMENTO DAS PAREIS e PAR17,PAR19 e PAR20			22/08/2019
	DESEJO INICIAL			22/09/2019
REV.	DESCRIÇÃO DE MODIFICAÇÕES			APROVAÇÃO
CLIENTE	SEMEE SERVIÇO DE ÁGUA E ESGOTO DE PIRACICABA			
SERA	CONSTRUÇÃO DE FILTROS			
DESENHO	ARM. DAS PAREDES: PARS,PARB,PAR11,PAR14, PAR17 à PAR27			ARQUIVO ARQ\FUND.DWG LIGADAS 1:50;1:25  FL.  <b>C-408</b>  PROJETO ESTRUTURAL P11-00
<div><div><div>ENGENHARIA E PROJETOS S/C LTDA. RUA FERNANDES PEREIRA Nº 340 - CENTRO - TELERIA D'AVILA - JARDIM PINHEIRO - PIRACICABA - SP CEP 13400-500 - FONE: (13) 3333-1111 E-MAIL: SAO PAULO</div></div></div>				