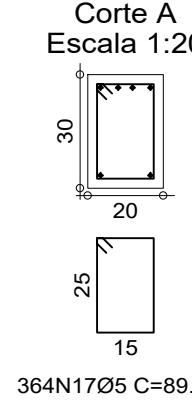
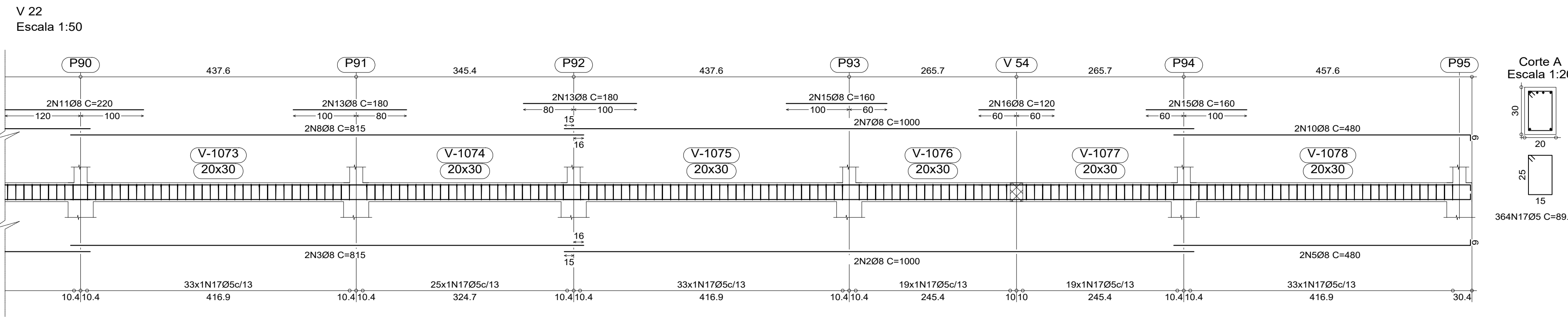
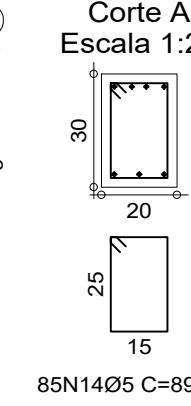
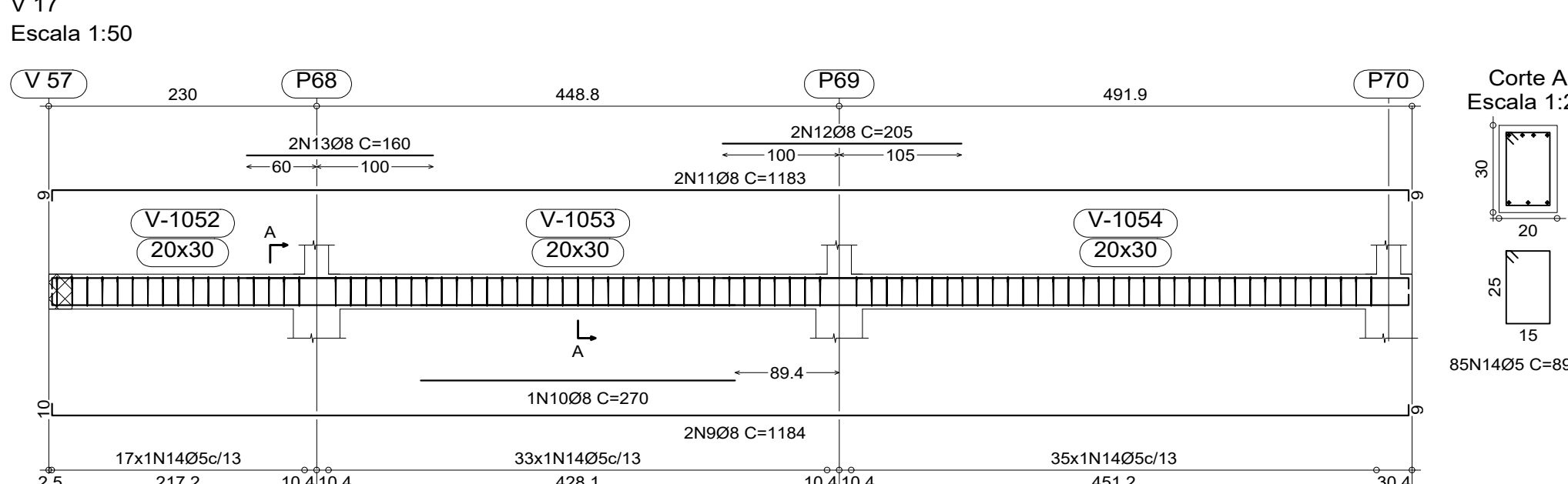
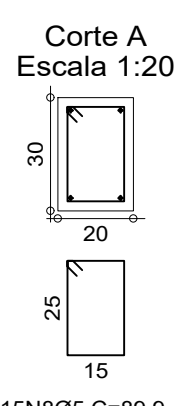
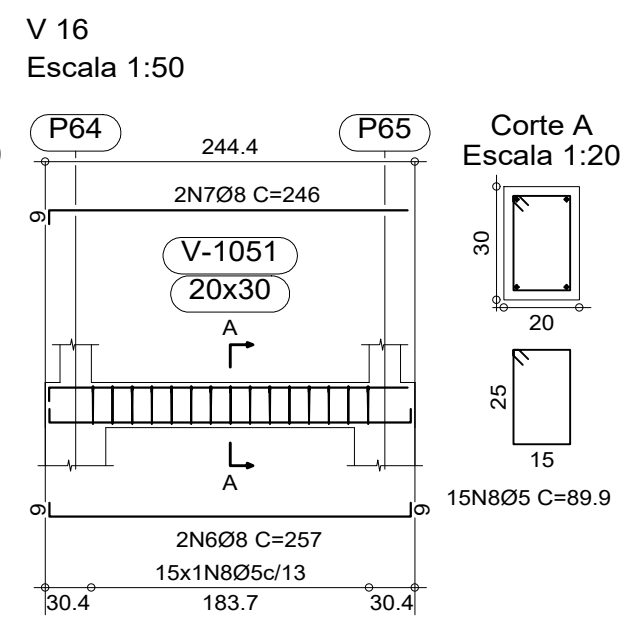
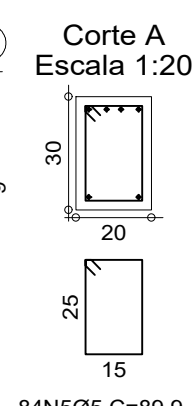
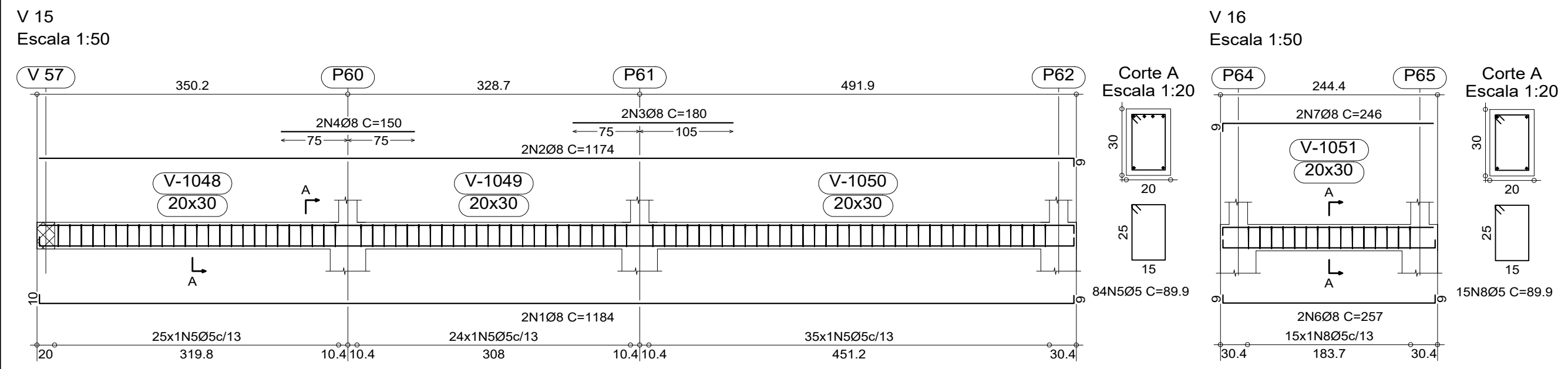
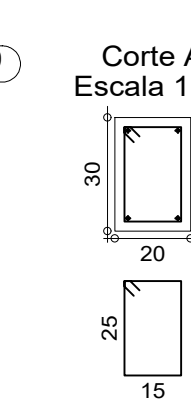
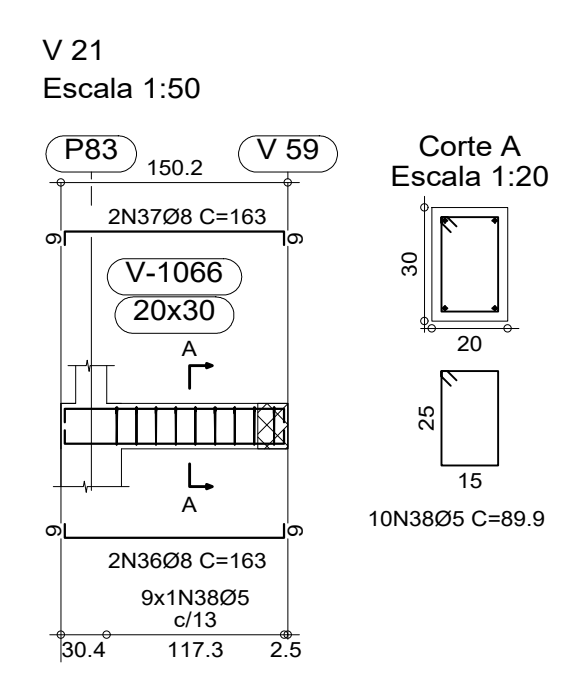
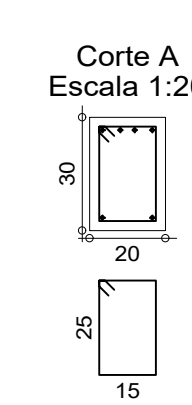
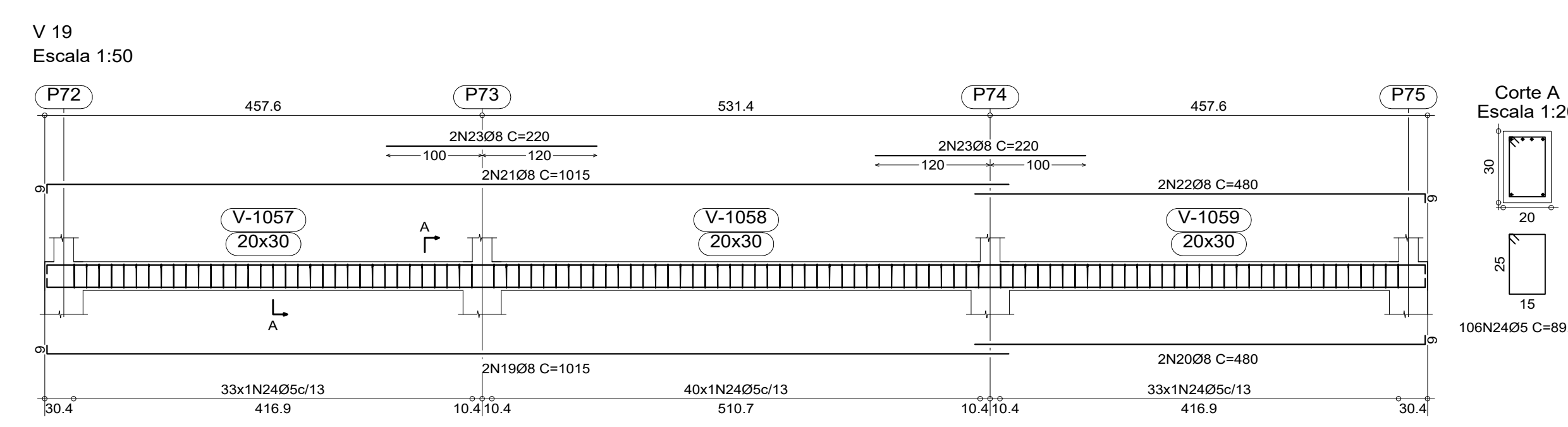
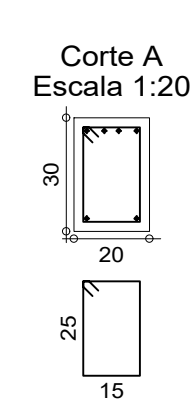
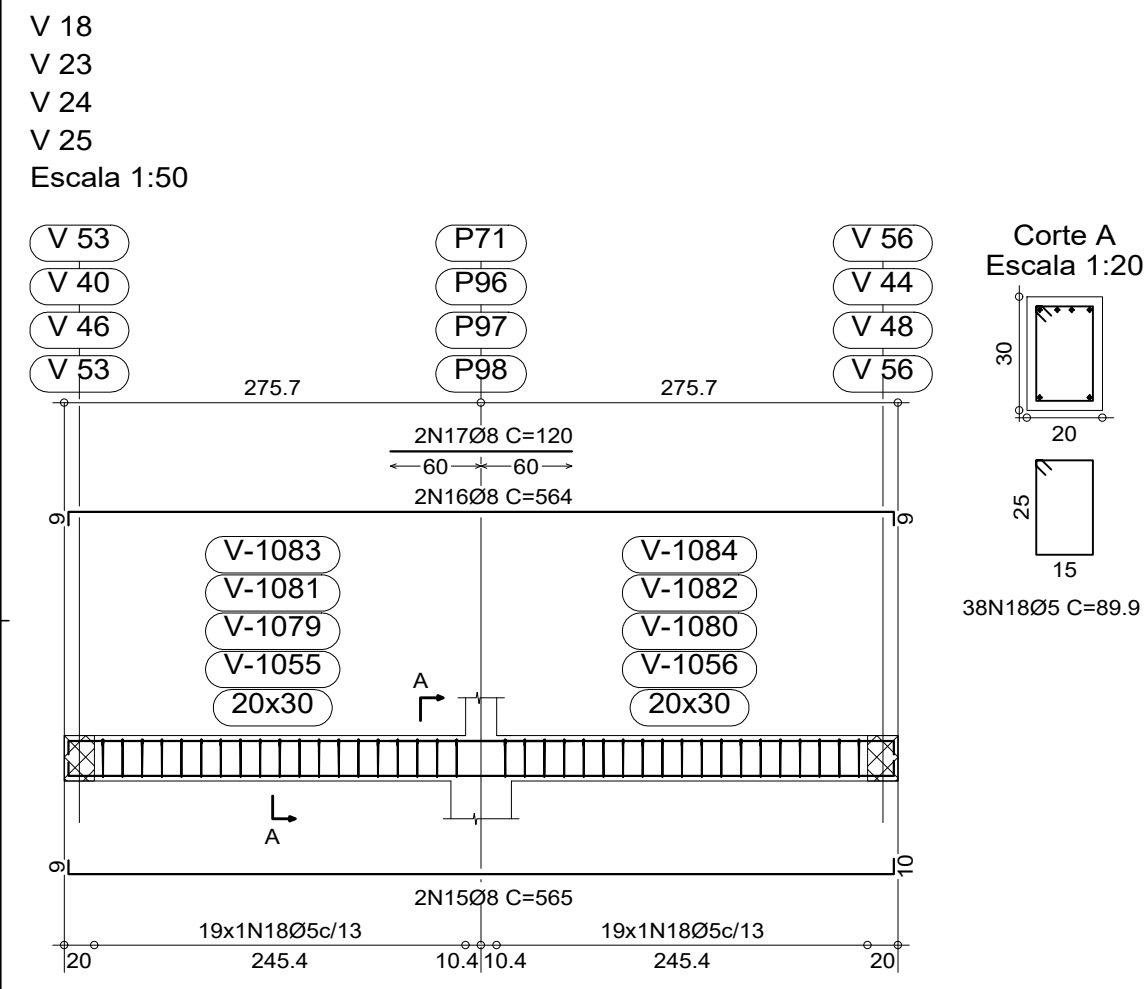
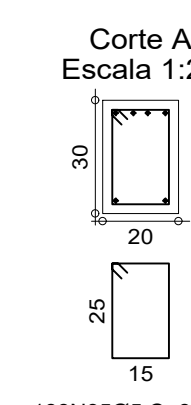
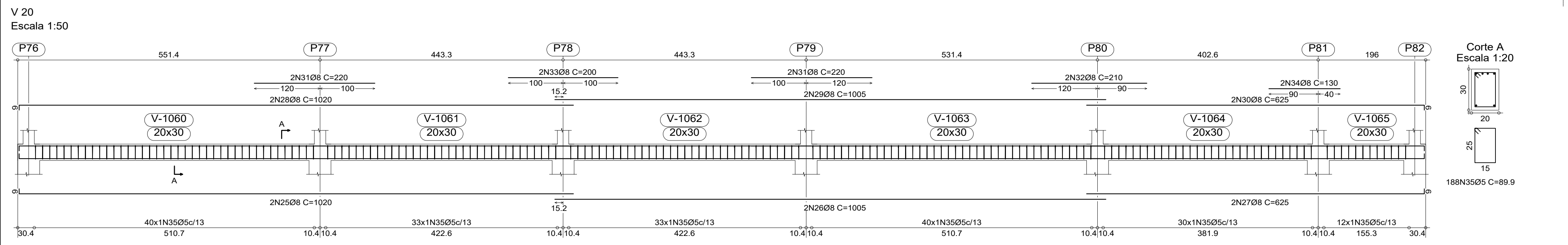
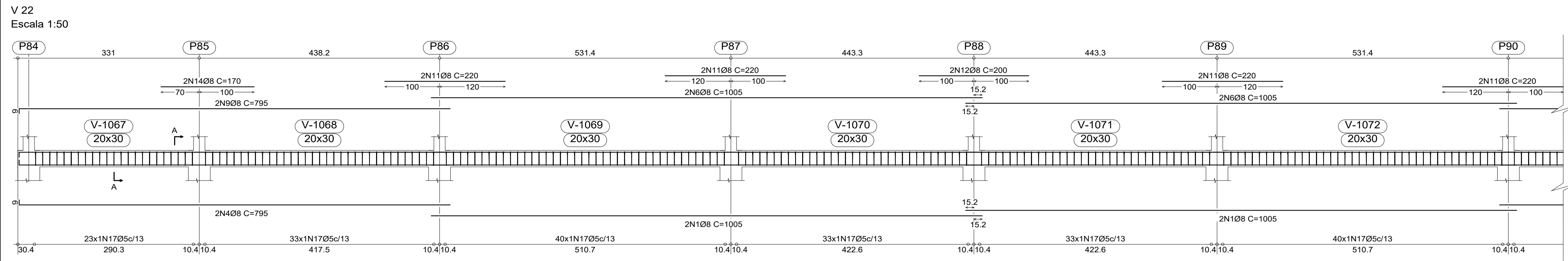


Baldrame - N. INF.
 Desenho de vigas
 Concreto. C25, em geral
 Apoio: CA-50 e CA-60
 Escala vigas: 1:50
 Escala seções: 1:20



Elemento	Pos.	Diam.	Q.	Dob. (cm)	Ret. (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 22	1	Ø8	4	1005	1005	4020	15.9			
	2	Ø8	2	1000	1000	2000	7.9			
	3	Ø8	2	815	815	1630	6.4			
	4	Ø8	2	786	786	1572	6.3			
	5	Ø8	2	471	471	942	3.8			
	6	Ø8	4	1005	1005	4020	15.9			
	7	Ø8	2	1000	1000	2000	7.9			
	8	Ø8	2	815	815	1630	6.4			
	9	Ø8	2	786	786	1572	6.3			
	10	Ø8	2	471	471	942	3.8			
	11	Ø8	8	220	220	1760	6.9			
	12	Ø8	2	200	200	400	1.6			
	13	Ø8	4	180	180	720	2.8			
	14	Ø8	2	170	170	340	1.3			
	15	Ø8	4	160	160	640	2.5			
	16	Ø8	2	120	120	240	0.9			
	17	Ø5	364			90	32760			51.4
Total+10%:									106.3	56.5
Ø5:									0.0	56.5
Ø8:									106.3	0.0
Total:									106.3	56.5

Elemento	Pos.	Diam.	Q.	Dob. (cm)	Ret. (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)	
V 15	1	Ø8	2	10	1165	9	1184	2368	9.4		
	2	Ø8	2	1165	9	1174	2348	9.3			
	3	Ø8	2	180	180	360	1.4				
	4	Ø8	2	150	150	300	1.2				
	5	Ø5	84			90	7560			11.9	
Total+10%:									23.4	13.1	
V 16	6	Ø8	2	9	239	9	257	514	2.0		
	7	Ø8	2	9	237	9	246	492	1.9		
	8	Ø5	15		90	1350				2.1	
Total+10%:									4.3	2.3	
V 17	9	Ø8	2	10	1165	9	1184	2368	9.4		
	10	Ø8	1	270	270	270	1.1				
	11	Ø8	2	9	1165	9	1183	2366	9.3		
	12	Ø8	2	200	200	400	1.6				
	13	Ø8	4	180	180	720	2.8				
	14	Ø8	2	170	170	340	1.3				
	15	Ø8	4	160	160	640	2.5				
	16	Ø8	2	120	120	240	0.9				
	17	Ø5	85			90	7650			12.0	
	Total+10%:									25.0	13.2
	V 18=V 23=V 24	15	Ø8	2	9	546	10	565	1130	4.5	
		16	Ø8	2	9	546	9	564	1128	4.5	
		17	Ø8	2	120	120	240	0.9			
		18	Ø5	38		90	3420				5.4
Total+10%:									10.9	5.9	
V 19	19	Ø8	2	9	1006	1015	2030	8.0			
	20	Ø8	2	9	471	9	480	960	3.8		
	21	Ø8	2	9	1006	1015	2030	8.0			
	22	Ø8	2	471	471	940	3.8				
	23	Ø5	4	220	220	880	3.5				
24	Ø5	106		90	9540				15.0		
Total+10%:									29.8	16.5	
V 20	25	Ø8	2	9	1011	1020	2040	8.1			
	26	Ø8	2	1005	1005	2010	7.9				
	27	Ø8	2	9	616	9	625	1250	4.9		
	28	Ø8	2	9	1011	1020	2040	8.1			
	29	Ø8	2	1005	1005	2010	7.9				
	30	Ø8	2	616	9	625	1250	4.9			
	31	Ø8	4	220	220	880	3.5				
	32	Ø8	2	210	210	420	1.7				
	33	Ø8	2	200	200	400	1.6				
	34	Ø8	2	130	130	260	1.0				
	35	Ø5	188		90	16920				26.6	
	Total+10%:									54.6	29.3
	V 21	36	Ø8	2	9	145	9	163	326	1.3	
		37	Ø8	2	9	145	9	163	326	1.3	
		38	Ø5	9		90	810				1.3
Total+10%:									2.9	1.4	
Ø5:									0.0	96.4	
Ø8:									163.6	0.0	
Total:									163.6	96.4	



DESCRIÇÃO:
 Projeto da estrutura mista (concreto armado e metálica) para construção de uma escola municipal com 25 salas de aula, localizada na Rua Luiz Pedro da Silva - loteamento Colorado, no município de Toritama - PE.

CLEYTON DA SILVA ENGENHARIA - EIRELI
 CNPJ: 27.928.441/0001-04
 CREA 598860 - PE

Cleyton da Silva
 Engenheiro Civil
 CREA 12814477 D/PE

Secretaria de Educação, Ciência e Tecnologia
 C.N.P.J.31.287.647/0001-70

NATUREZA:
 Projeto estrutural (concreto - metálica)

PROPRIETÁRIO:
 Secretaria de Educação, Ciência e Tecnologia
 C.N.P.J. 31.287.647/0001-70

DESENHOS:
 - Pilaretes de concreto armado
 - Planta de forma
 - Armação da ferragem
 - Detalhes construtivos

ÁREAS GERAIS:
 Área do terreno = 9.611,47 m²
 Área de solo natural = 1.389,09m² 14,45%
 Área de solo permeável = 1.389,09m² 14,45%
 Área de solo impermeável = 8.222,38m² 85,55%
 Área construída = 6.791,63m² 70,66%



ESCALA: 1/100, 1/50 e 1/20
 PRANCHA: 06/55
 DATA: Abril de 2024