

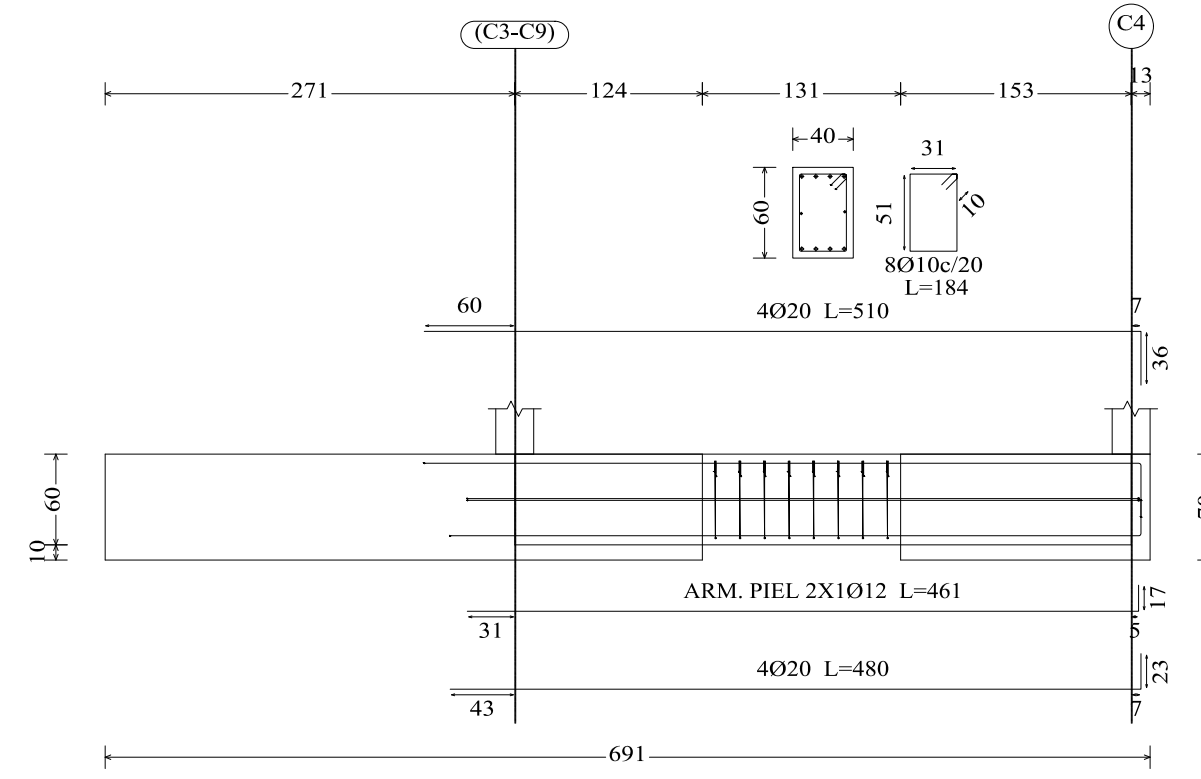
Tabla de elevaciones

Número	Elevación mínima	Elevación máxima	Area	Color
1	1913.55	1913.92	9.82	Red
2	1913.92	1914.10	9.38	Orange
3	1914.10	1914.46	35.53	Yellow
4	1914.46	1914.82	41.02	Light Green
5	1914.82	1914.91	12.01	Green
6	1914.91	1915.52	49.30	Cyan
7	1915.52	1915.86	22.04	Blue
8	1915.86	1916.48	3.80	Purple

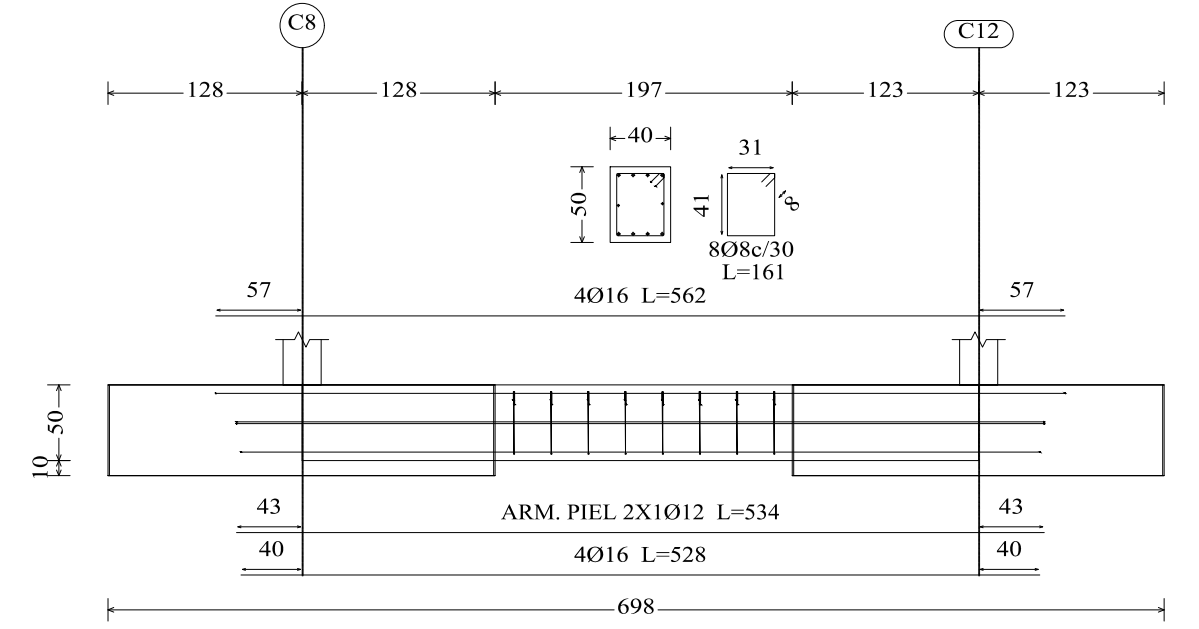


UNIVERSIDAD A. JUAN MISHAEL SARACHO		
UNIVERSITARIO: LUIS HECTOR GUTIERREZ HUMACATA	MATERIA: CIV-502 PROYECTO DE INGENIERIA CIVIL II	
PROYECTO: DISEÑO ESTRUCTURAL DE LA VIVIENDA SARGENTI DE 3 PISOS UBICADO EN EL BARRIO EL MOLINO TARIJA - CERCADO	ESCALA: 1:1000	PLANO N° 1
TITULO DE LAMINA: PLANO TOPOGRAFICO	FECHA: TARIJA DICIEMBRE DE 2022	

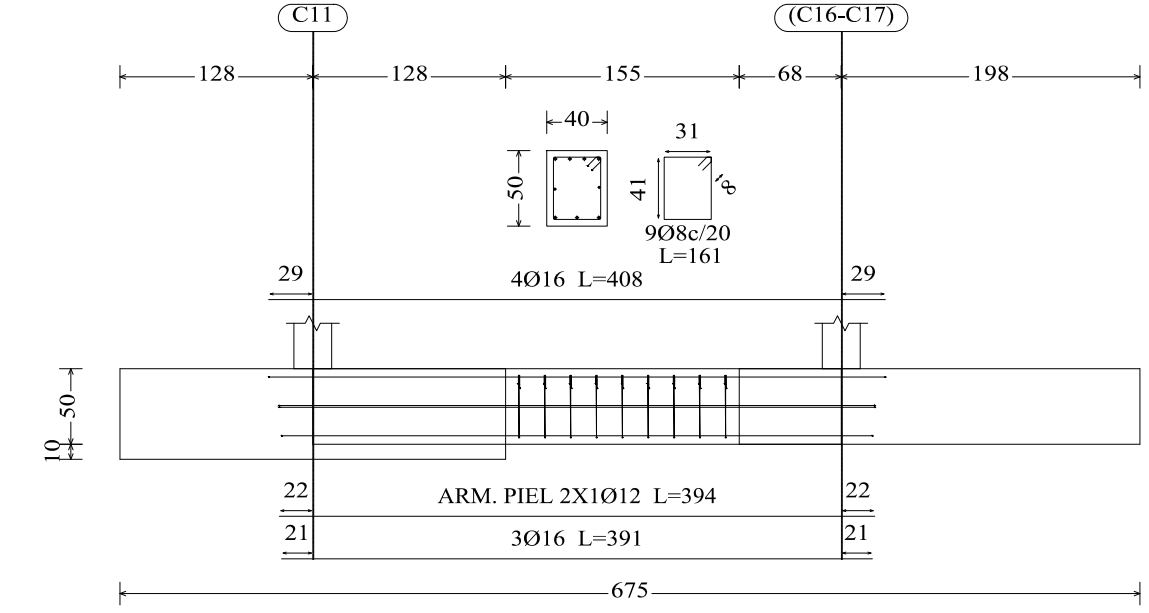
VC.S-2.2 [(C3-C9) - C4]



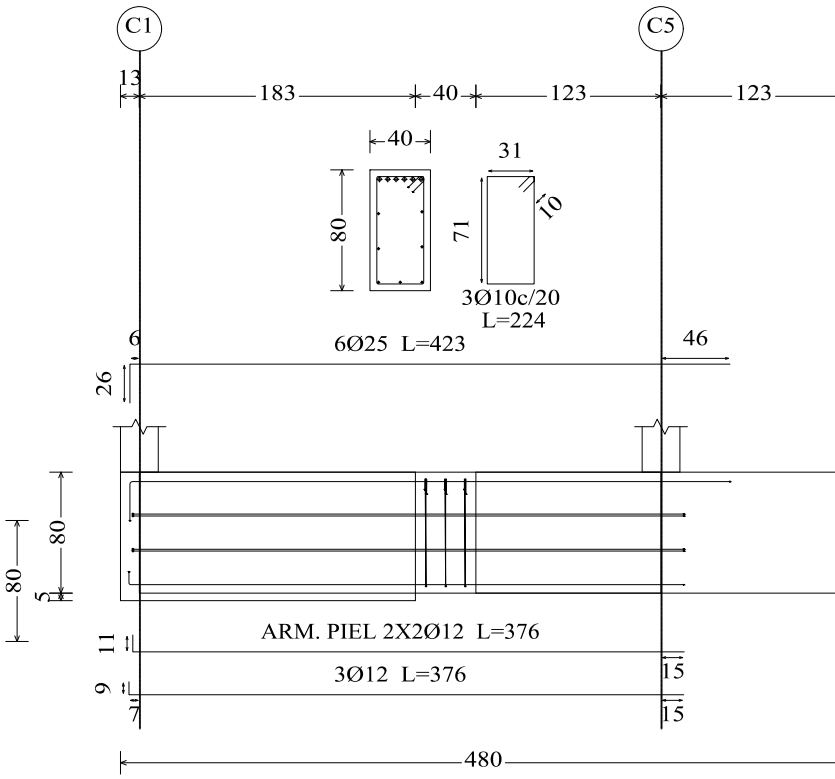
VC.S-1 [C8 - C12]



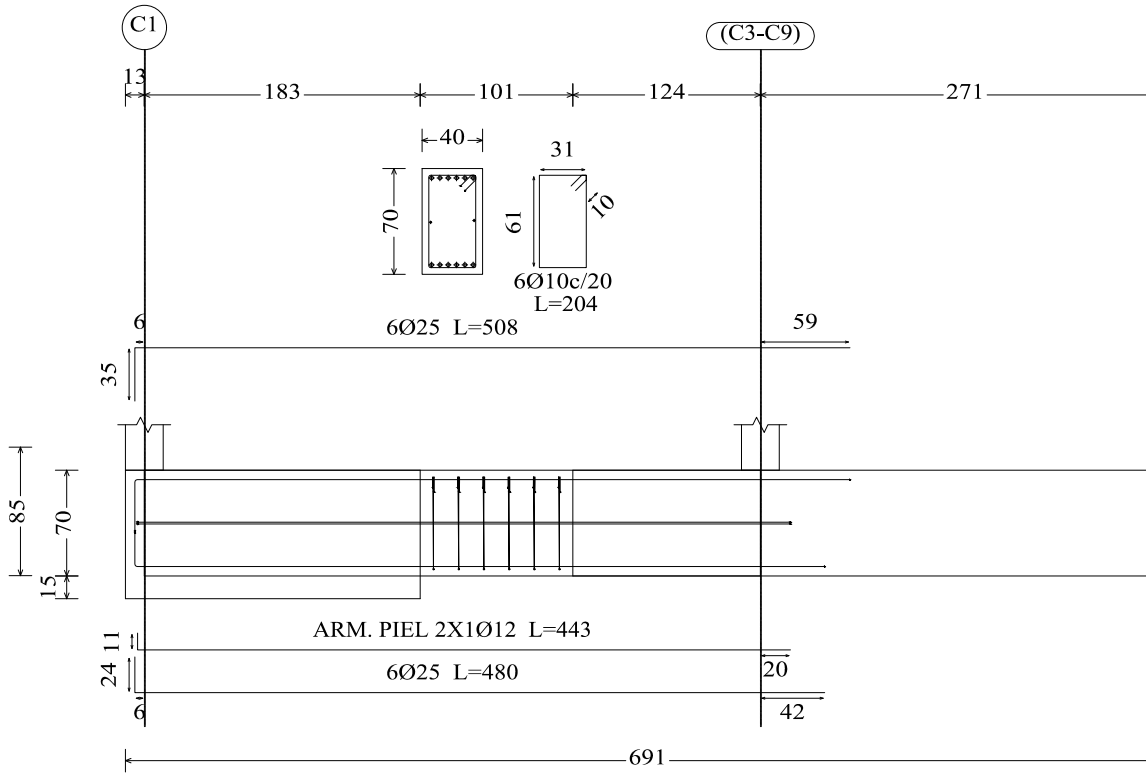
VC.T-1.3 [C11 - (C16-C17)]



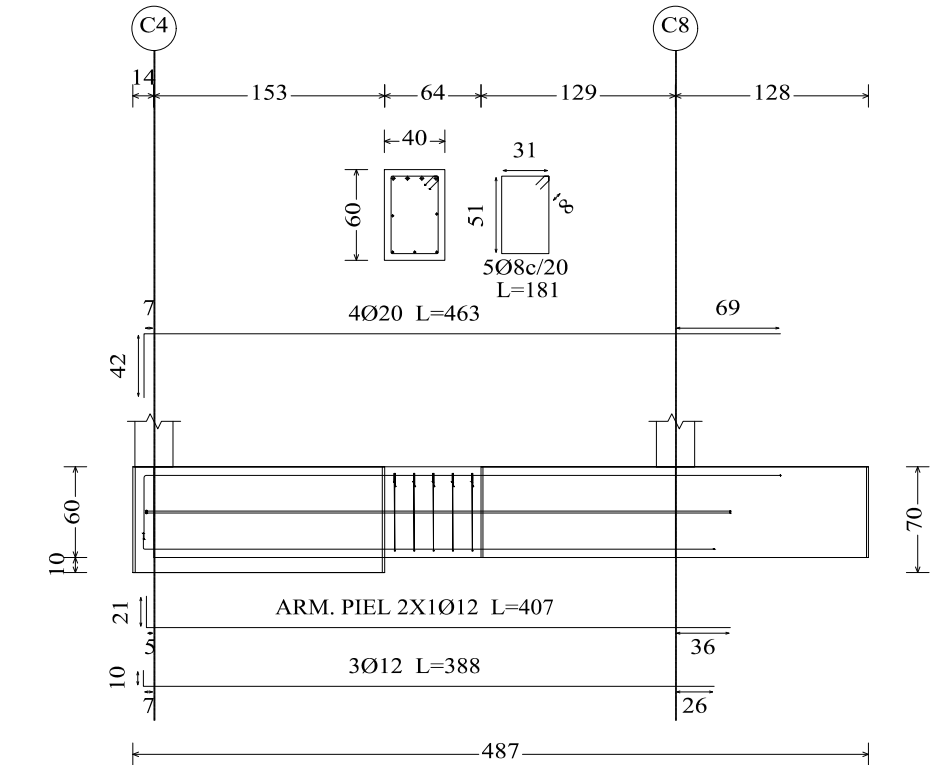
VC.T-5.2 [C1 - C5]



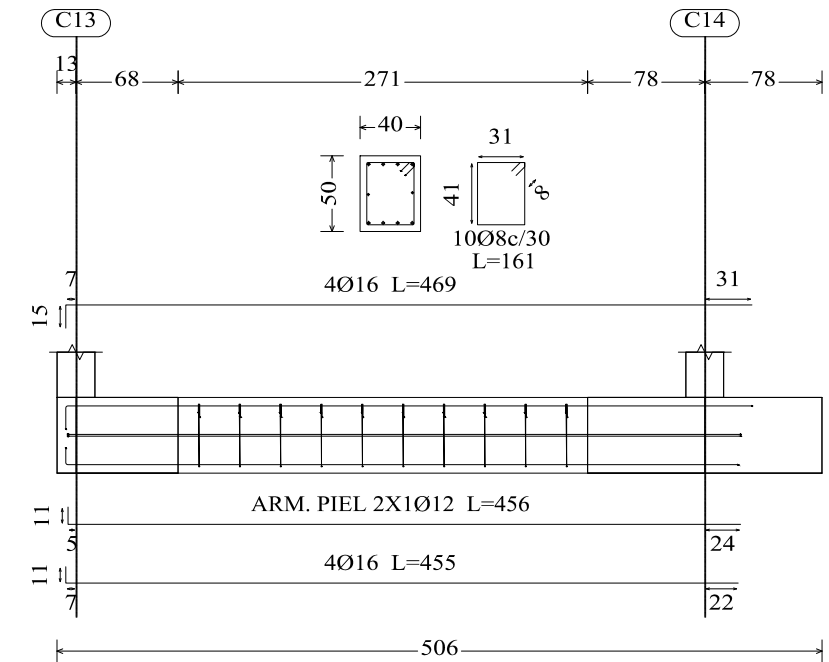
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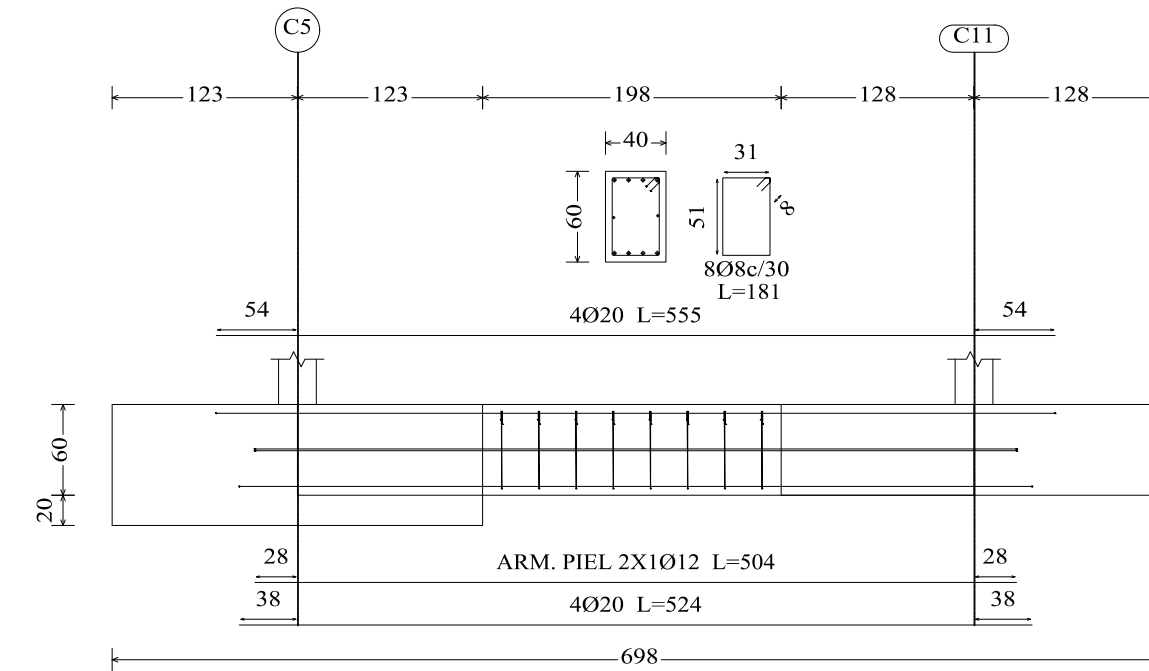
VC.T-2.1 [C4 - C8]



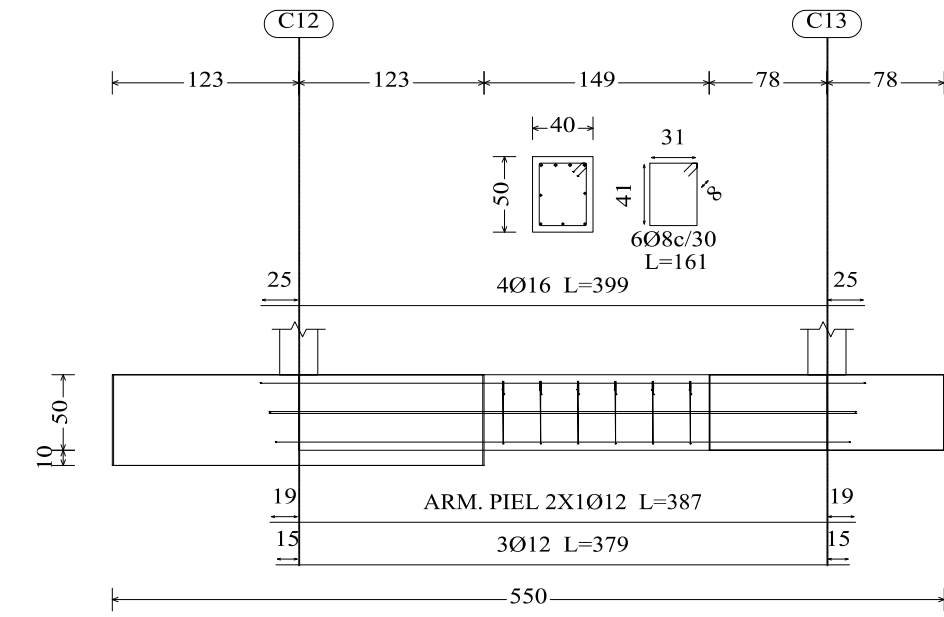
VC.S-1 [C13 - C14]



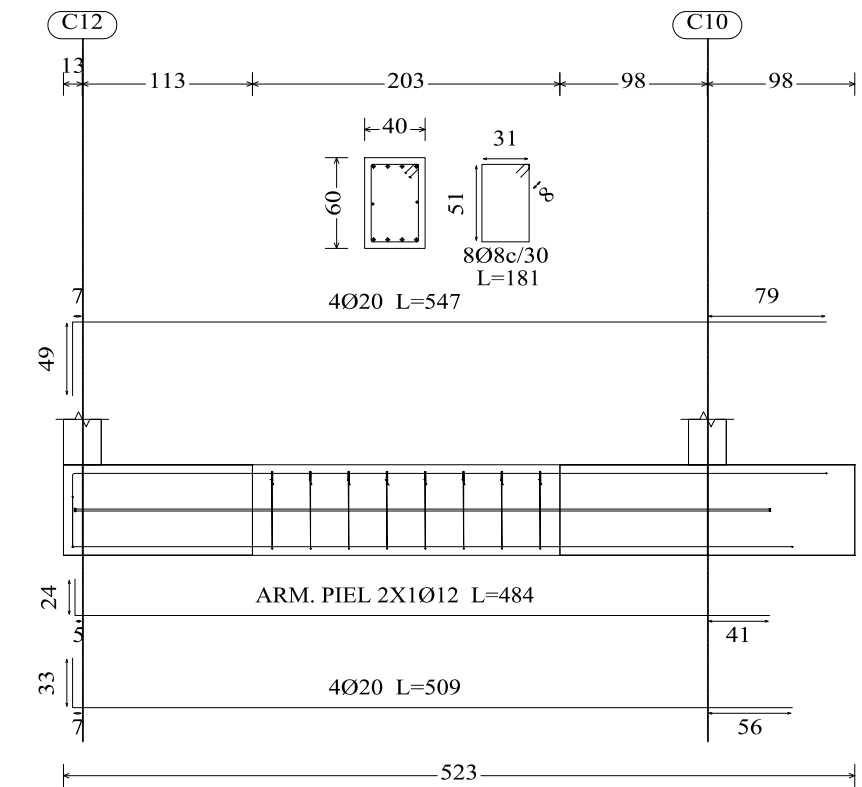
VC.S-2 [C5 - C11]



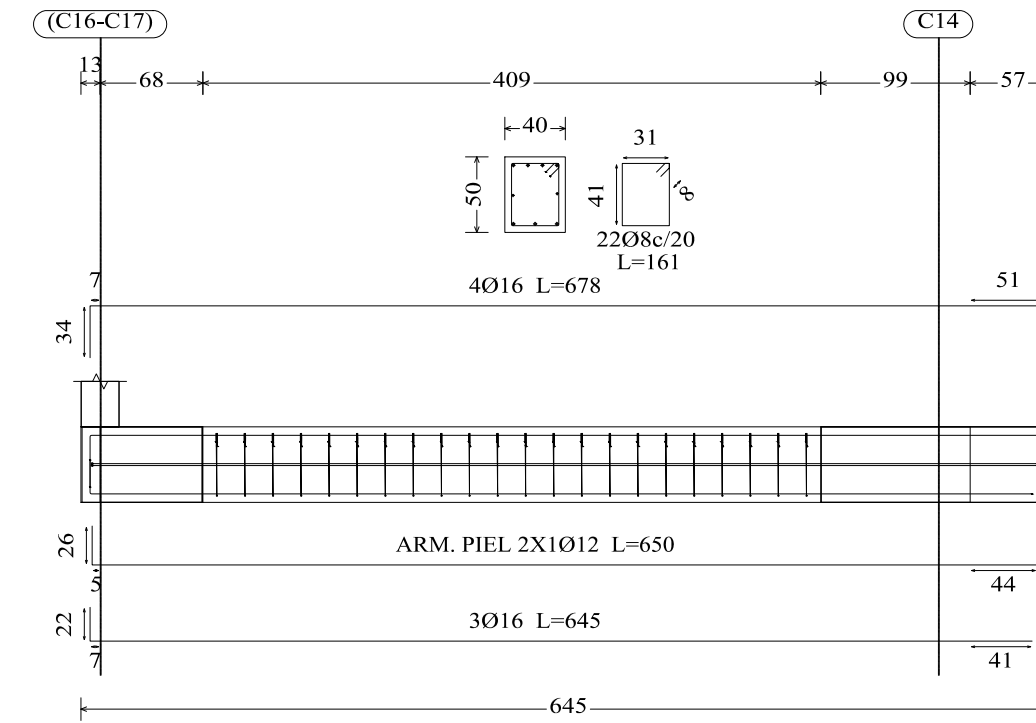
VC.T-1 [C12 - C13]



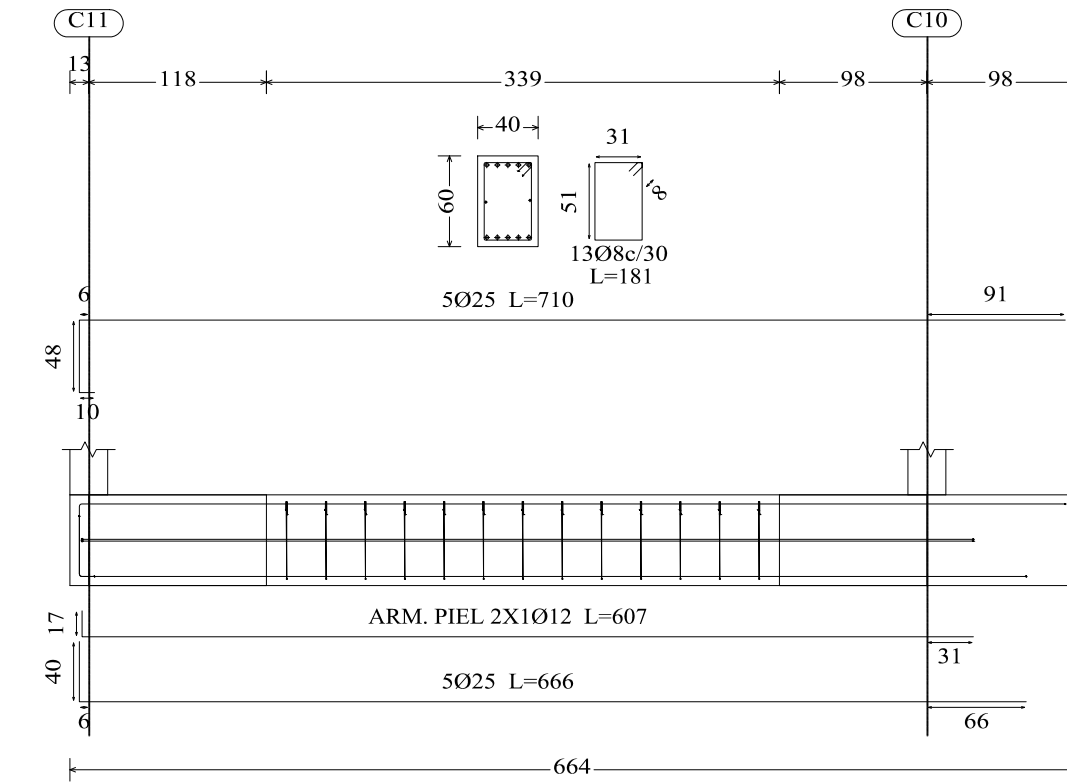
VC.S-2 [C12 - C10]



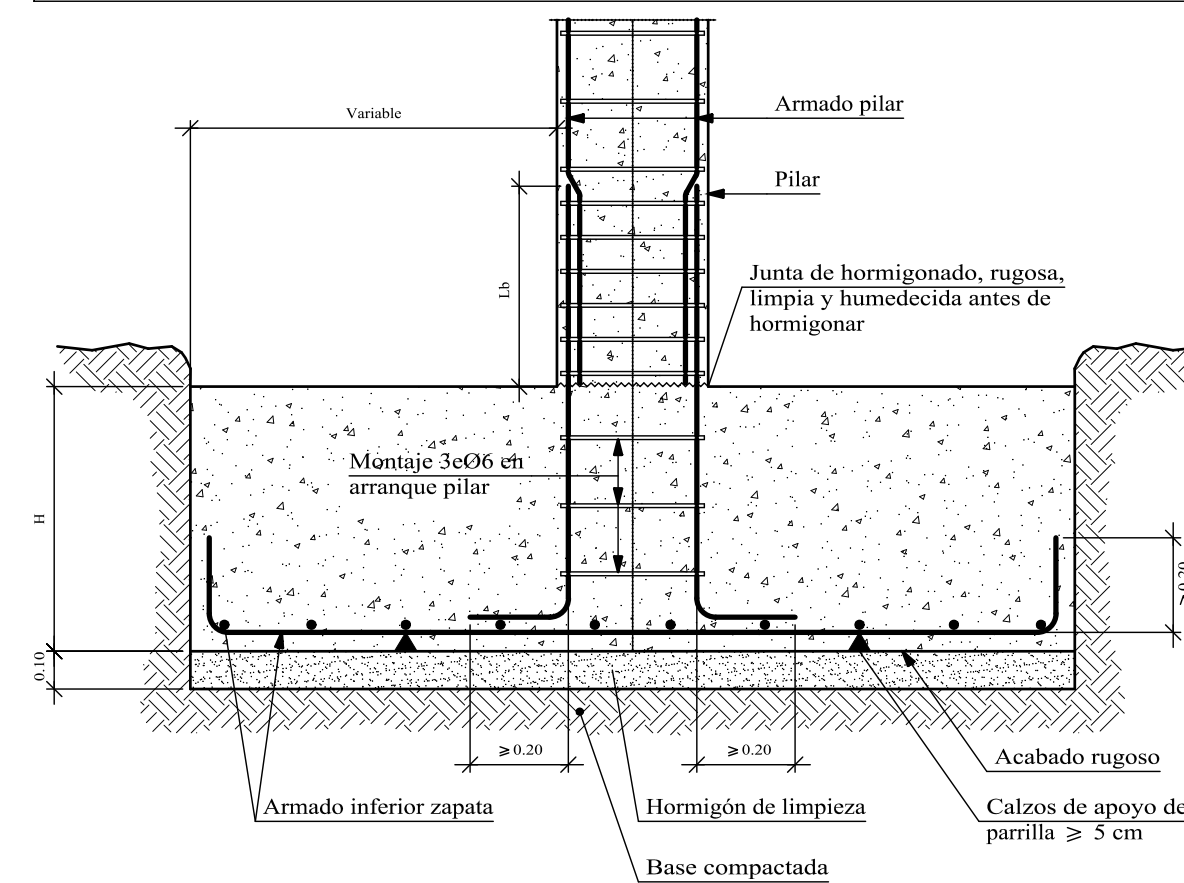
VC.T-1.3 [(C16-C17) - C14]



VC.S-3 [C11 - C10]



Zapata aislada.

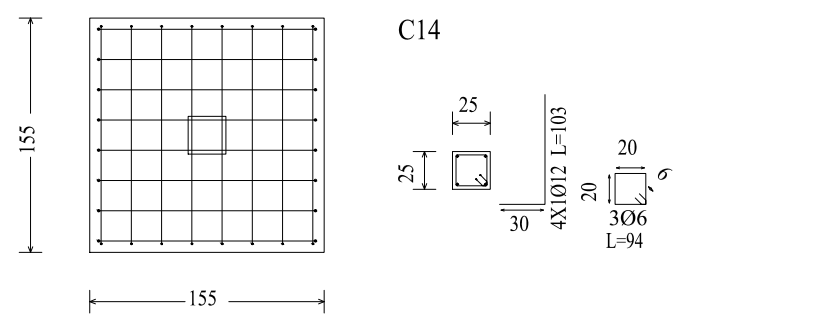
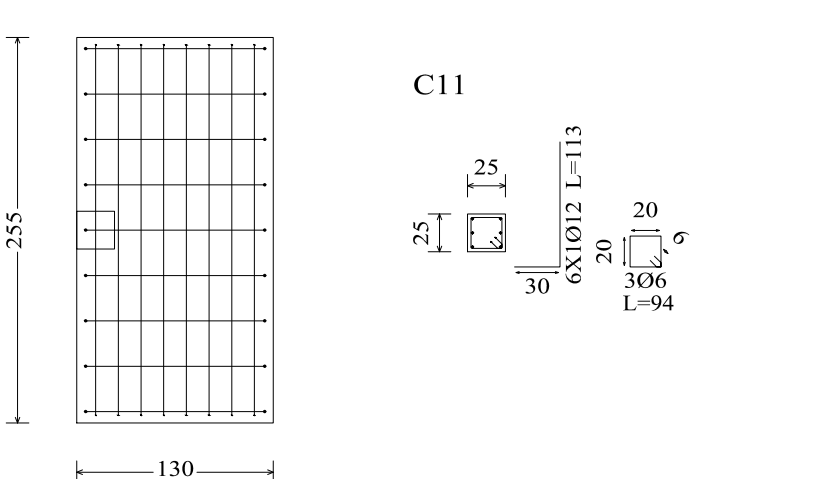
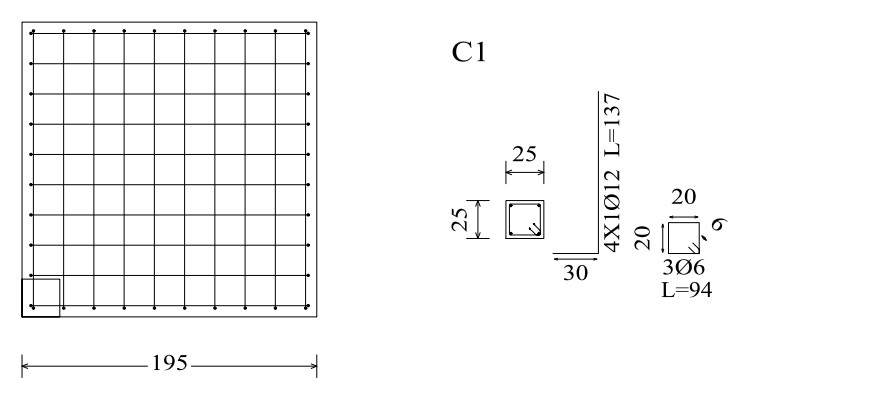
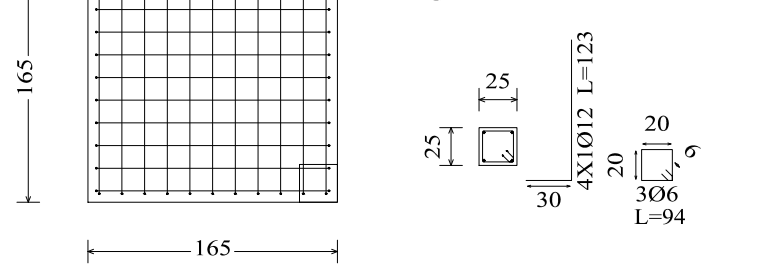
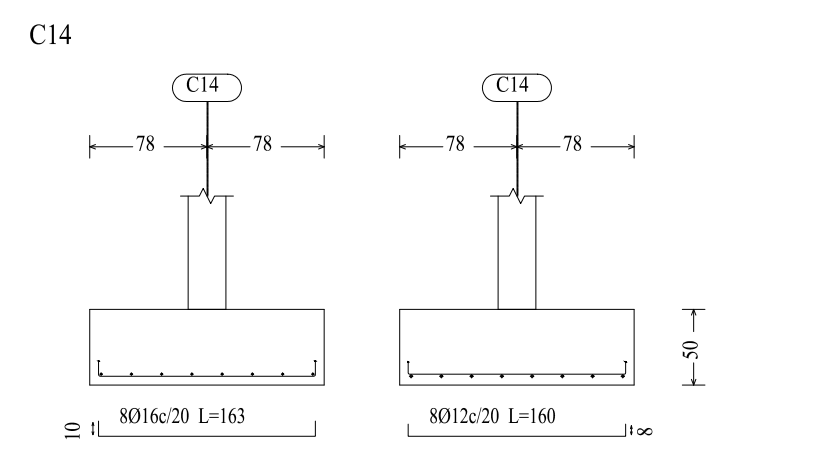
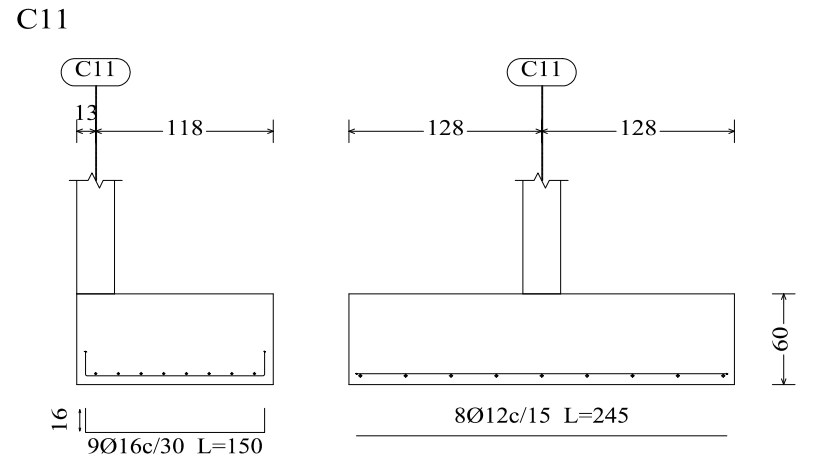
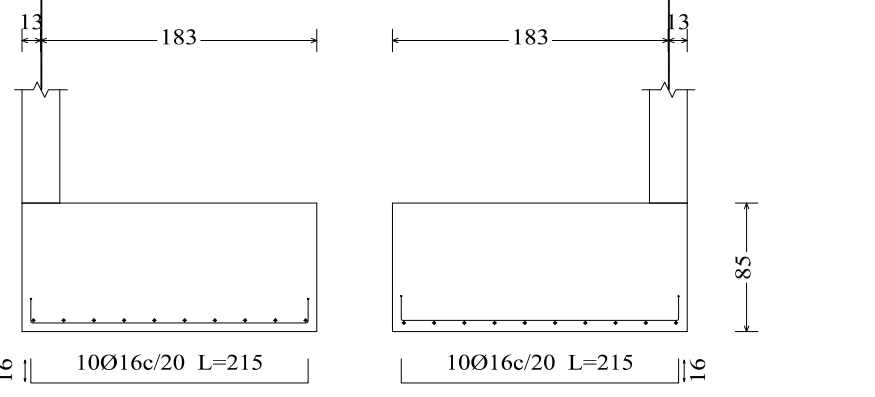
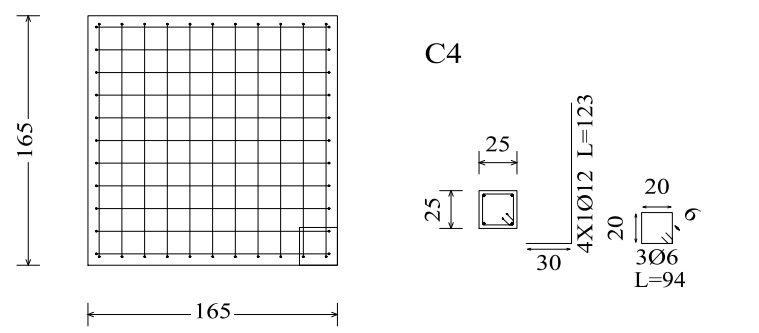
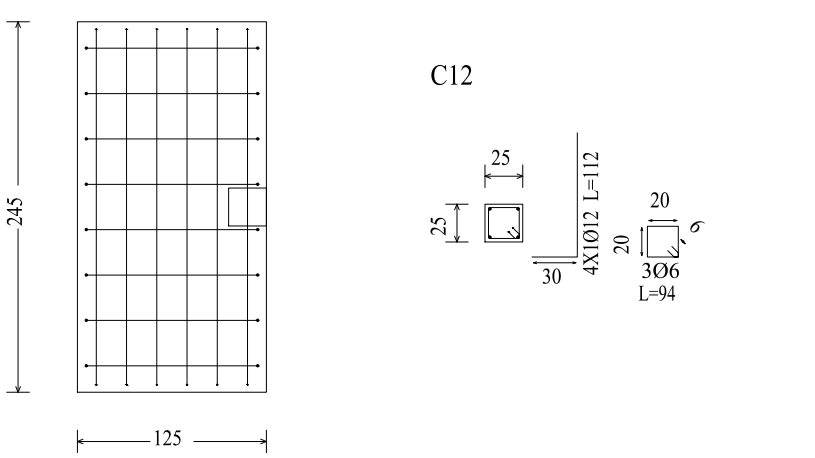
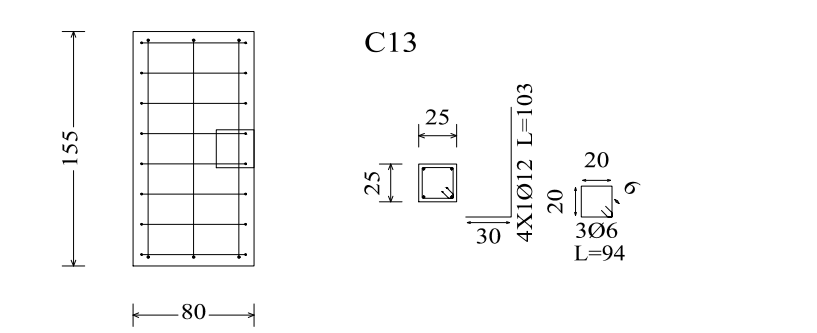
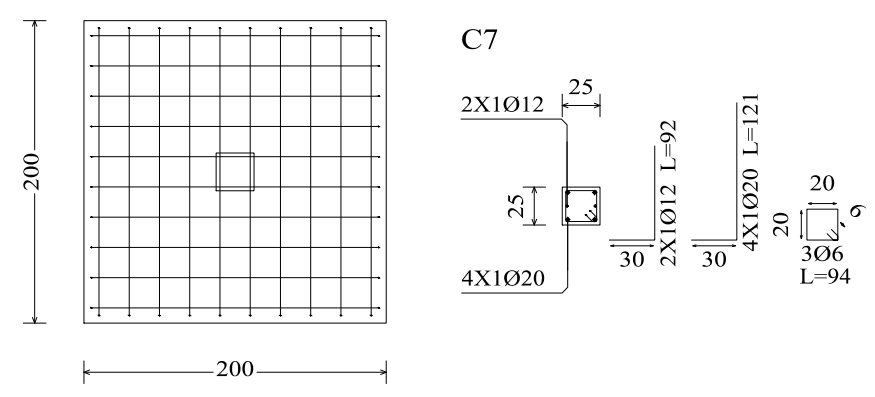
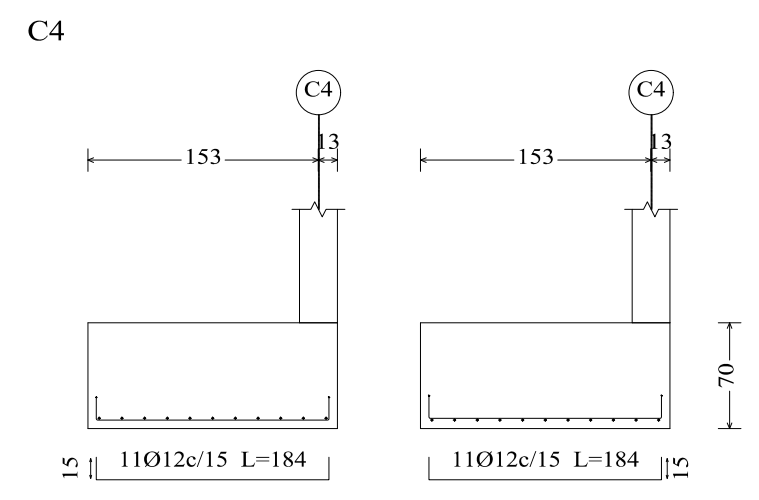
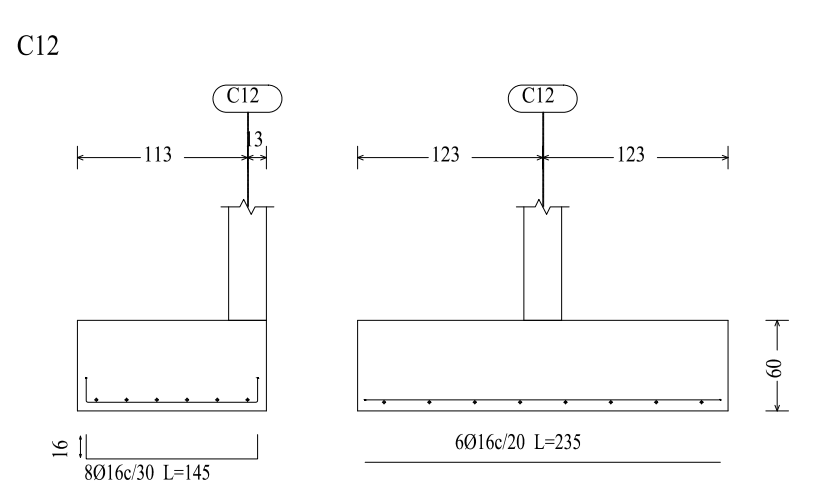
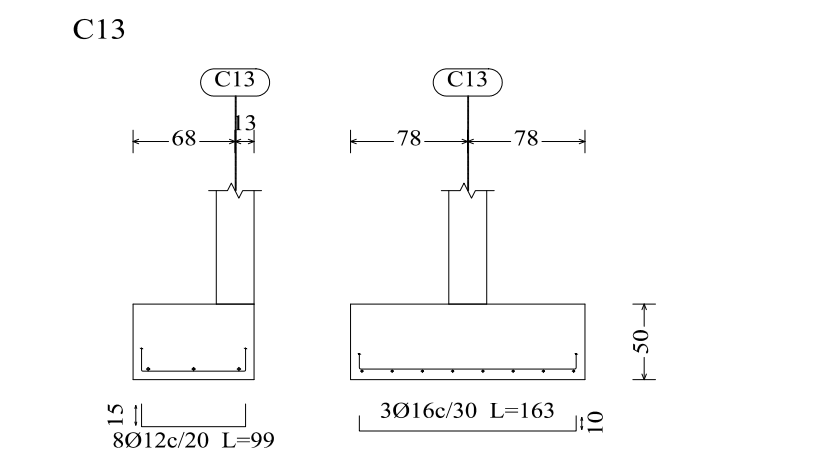
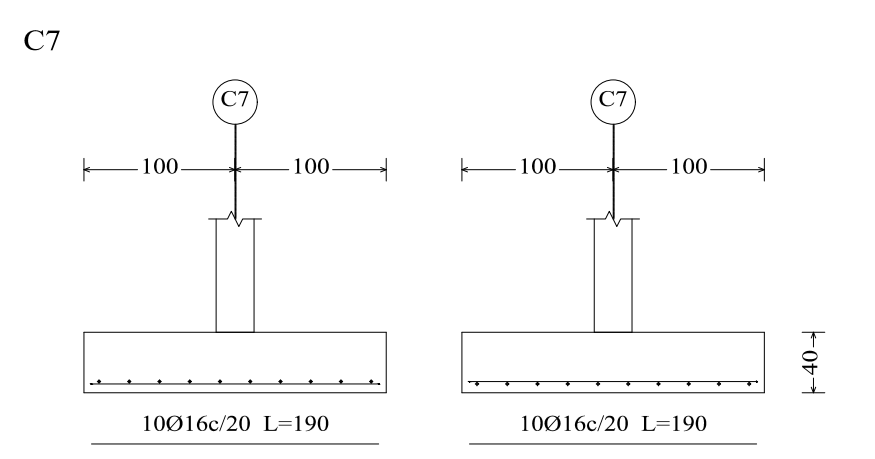
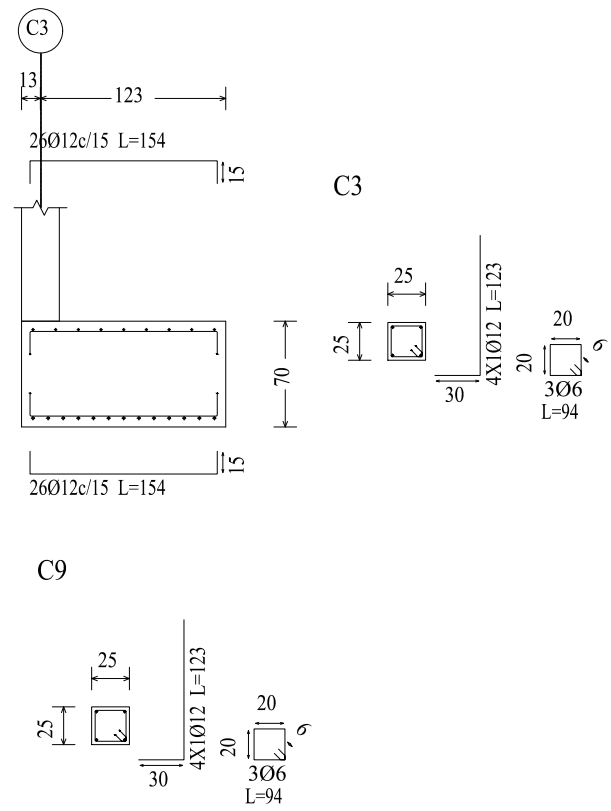
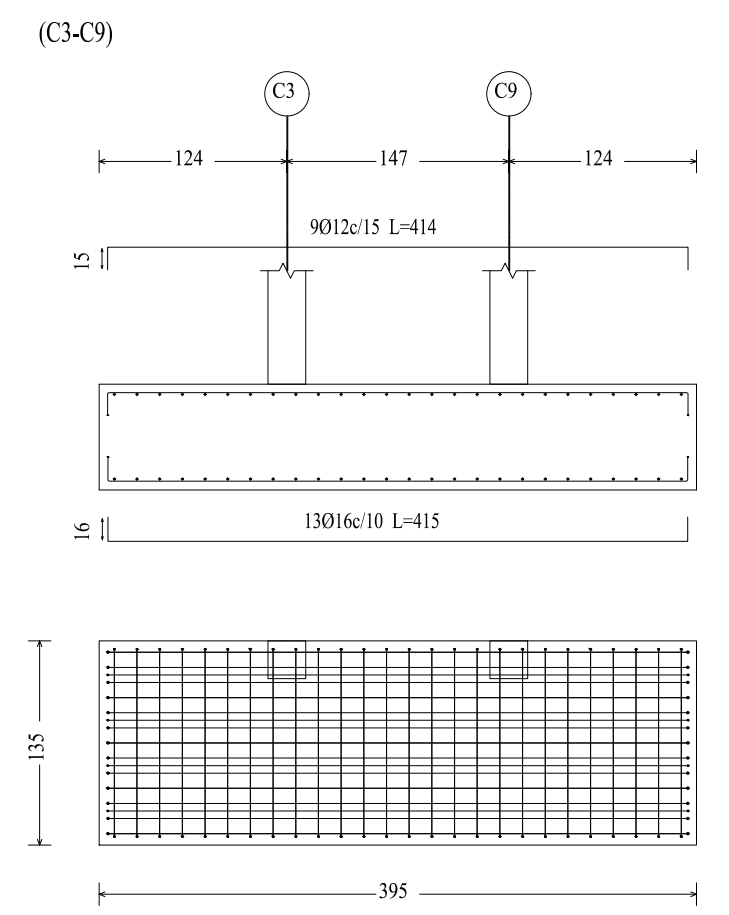
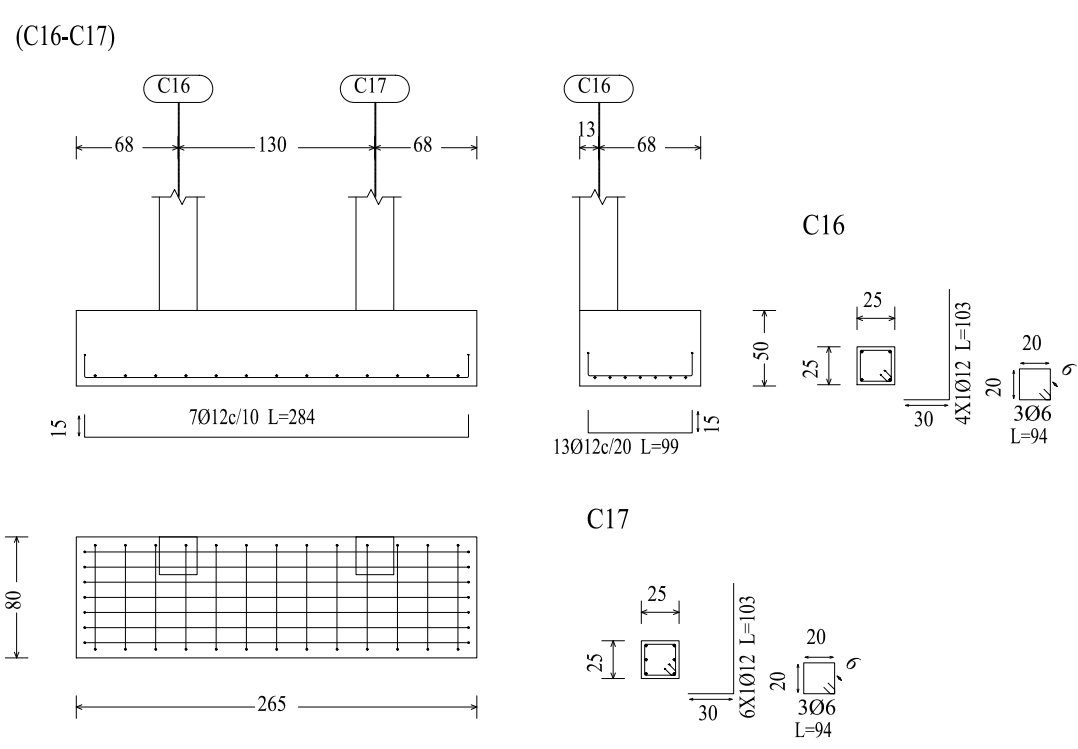
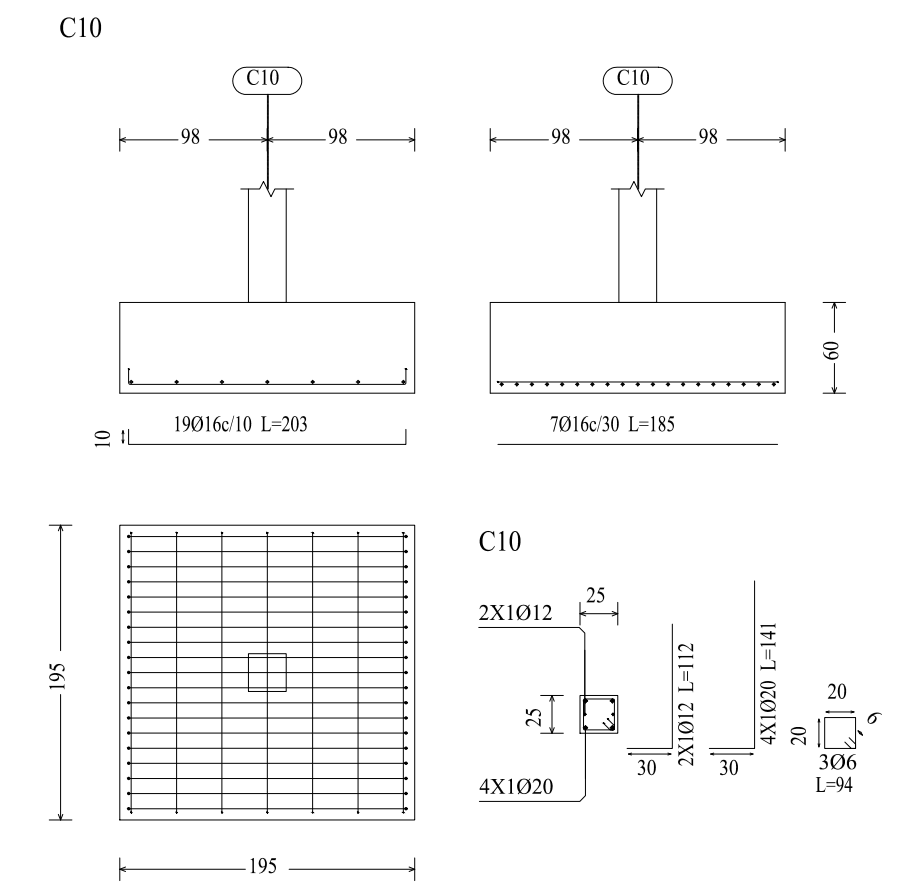
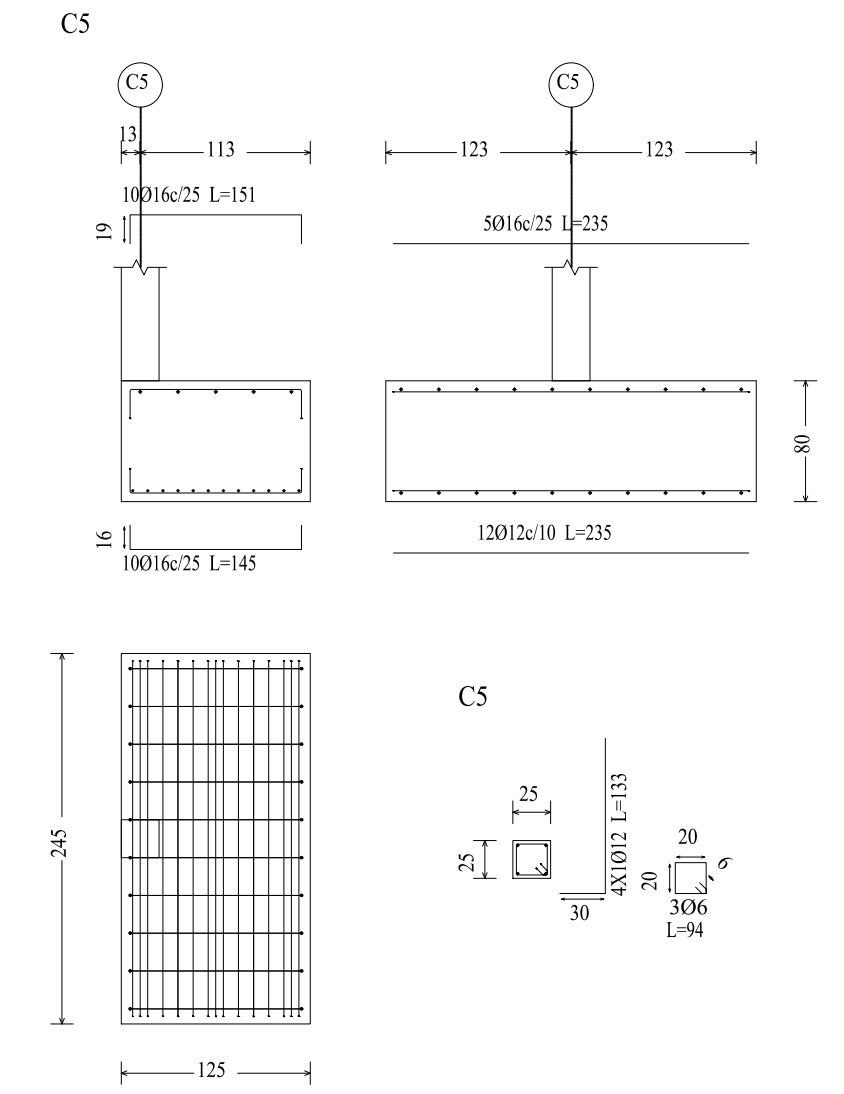
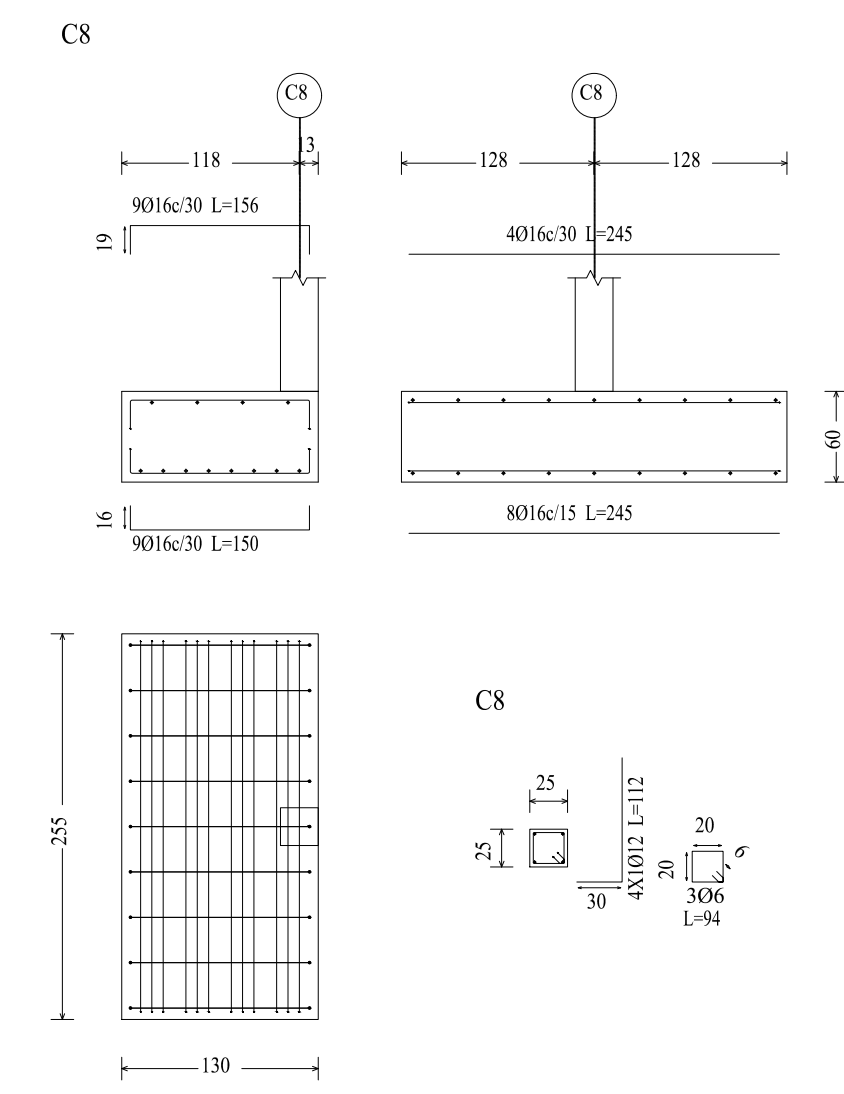
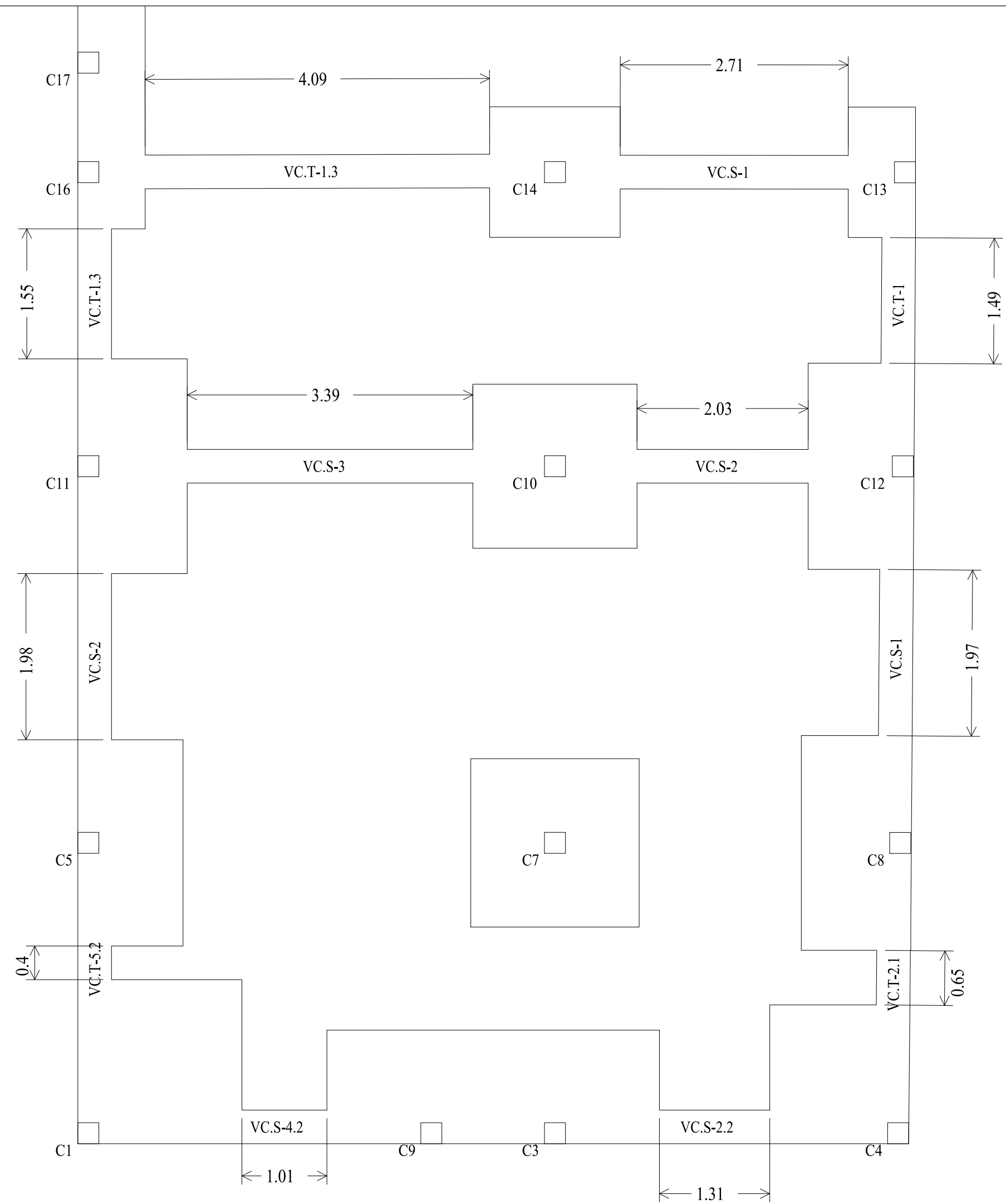


Resumen Acero Cimentación	Despiece cimentación	Long. total (m)	Peso+5% (kg)	Total
AH-500CN	Ø6	39.5	9	
	Ø8	150.1	62	
	Ø10	33.7	22	
	Ø12	478.9	446	
	Ø16	512.9	850	
	Ø20	154.0	399	
	Ø25	153.5	621	2409



UNIVERSIDAD A. JUAN MISAEL SARACHO

UNIVERSITARIO: LUIS HECTOR GUTIERREZ HUMACATA	MATERIA: CIV-502 PROYECTO DE INGENIERIA CIVIL II	PLANO Nº
PROYECTO: DISEÑO ESTRUCTURAL DE LA VIVIENDA SARGENTIL DE 3 PISOS UBICADO EN EL BARRIO EL MOLINO TARIJA - CERCA	ESCALA: INDICADA	4
TÍTULO DE LAMINA: DESPIECE CIMENTACIÓN	FECHA: TARIJA DICIEMBRE DE 2022	



Resumen Acero Cimentación	Long. total (m)	Peso+5% (kg)	Total
AH-500CN	06	39.5	9
	08	150.1	62
	010	33.7	22
	012	478.9	446
	016	512.9	850
	020	154.0	399
	025	153.5	621
			2409

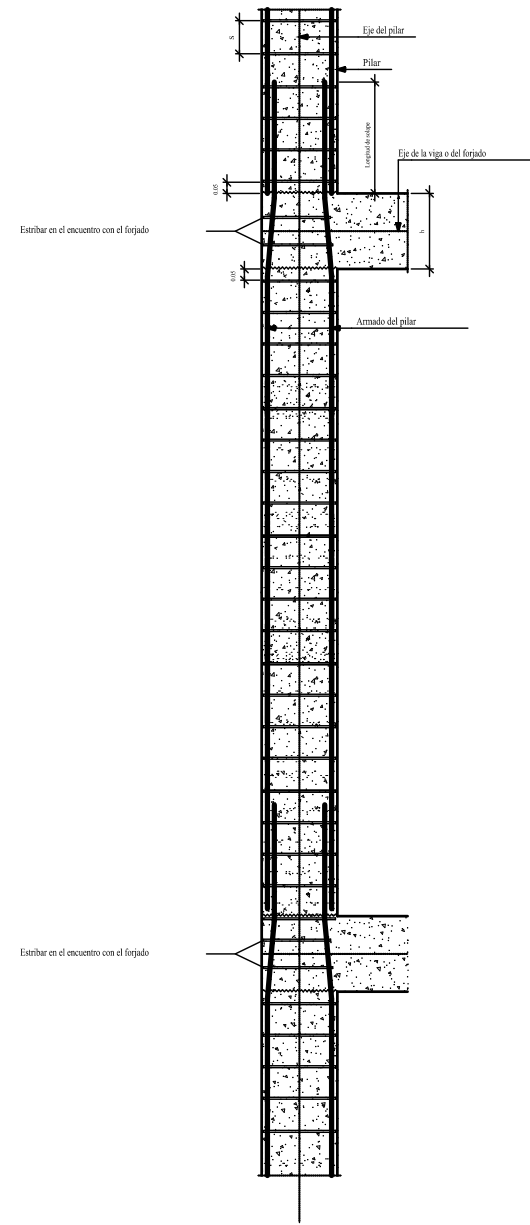
Cimentación
Despiece cimentación
Hormigón: H-25, Control Normal
Escala: 1:50



UNIVERSIDAD A. JUAN MISAEL SARACHO		
UNIVERSITARIO: LUIS HECTOR GUTIERREZ HUMACATA	MATERIA: CIV-502 PROYECTO DE INGENIERIA CIVIL II	
PROYECTO: DISEÑO ESTRUCTURAL DE LA VIVIENDA SARACHO DE 3 PISOS UBICADO EN EL BARRIO EL MOLINO TARIJA - CERCO	ESCALA: INDICADA	PLANO N° 3
TITULO DE LAMINA: DESPIECE CIMENTACIÓN	FECHA: TARIJA DICIEMBRE DE 2022	

C1=C5 C8=C9 C12=C13 C14=C16	C3=C4	C7	C10	C11	C17	
						Cubierta
						Terraza
						2 do piso
						1 er piso
						PB
						Cimentación

Detalle de estribo de pilares

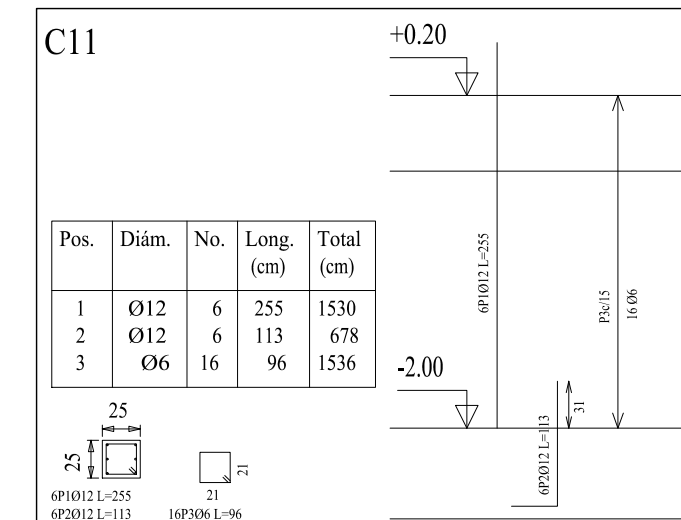
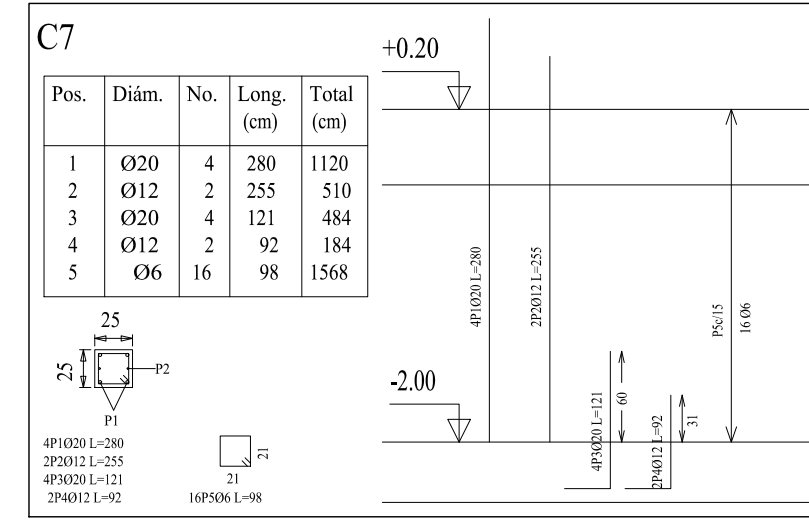
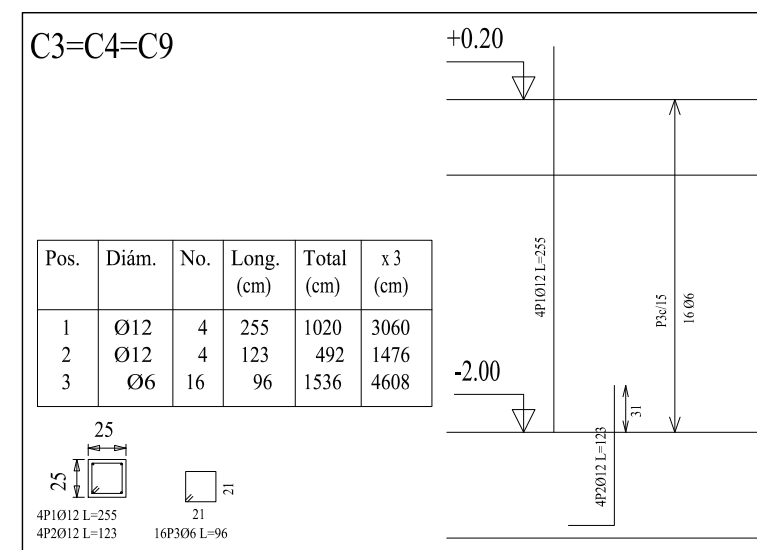
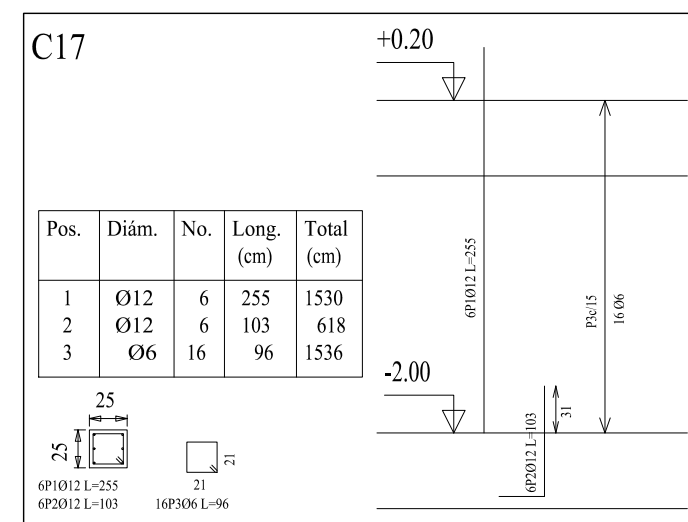
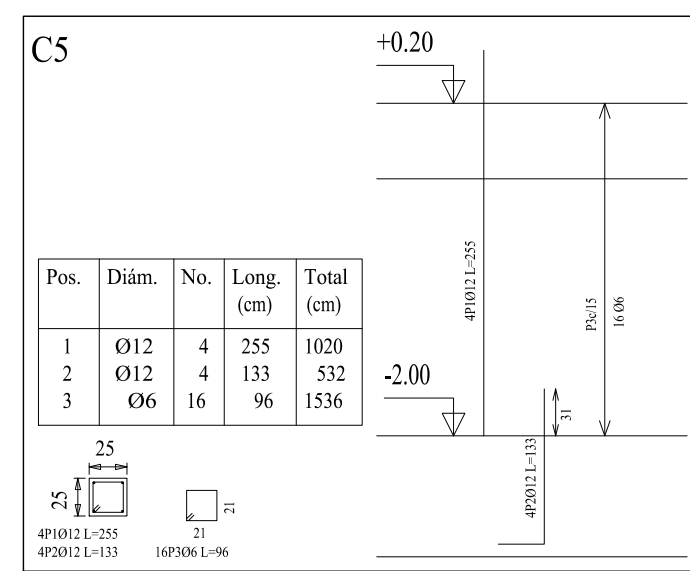


Cuadro de pilares
Hormigón: H-25 , Control Normal
Acero: AH-500 , Control Normal
Escala: 1:50

Resumen Acero Forjados 1 a 5 Pilares		Long. total (m)	Peso+5% (kg)	Total
AH-500CN	Ø6	1417.8	330	
	Ø12	948.9	885	
	Ø16	51.1	85	
	Ø20	48.1	125	1425

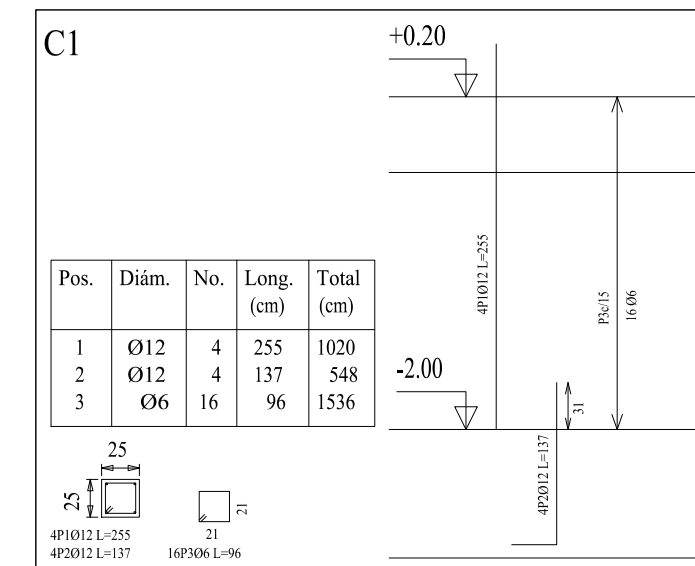
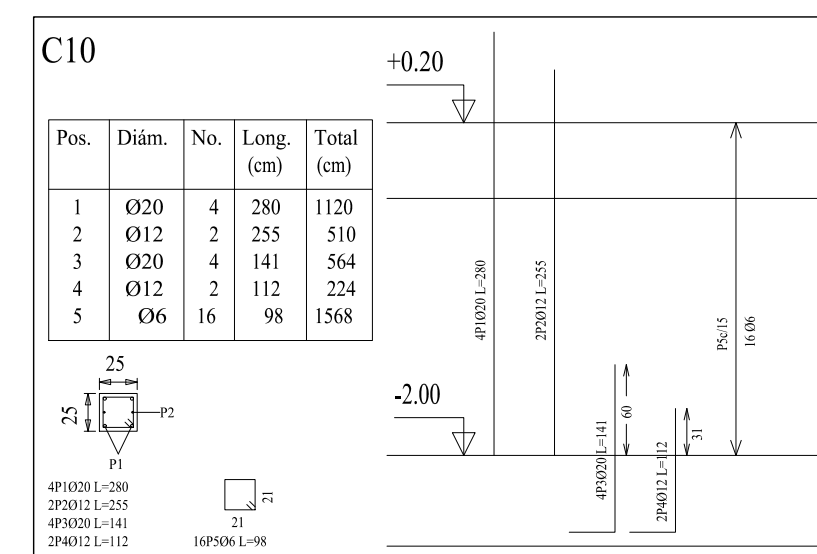
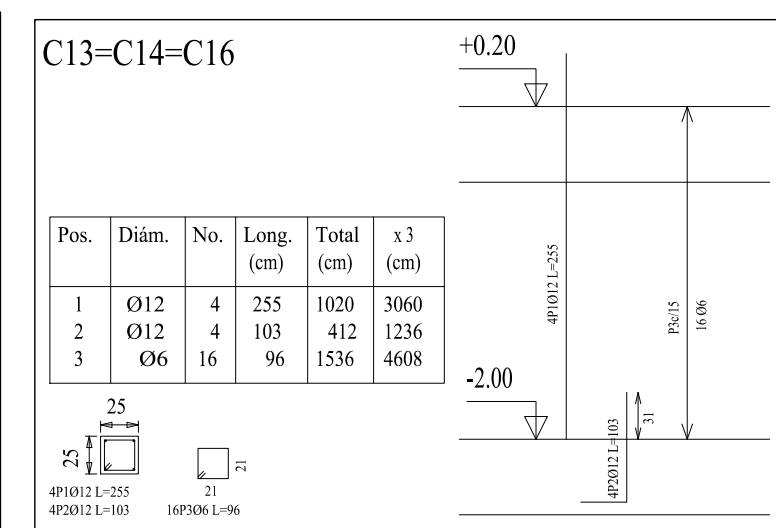
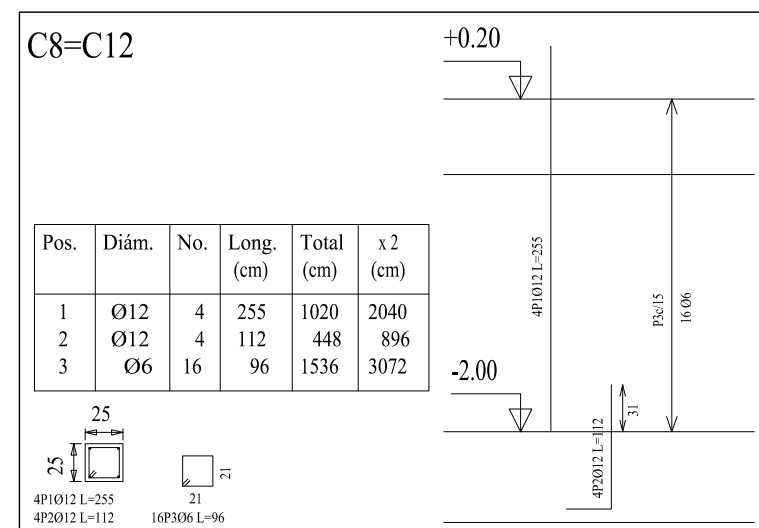


UNIVERSIDAD A. JUAN MISAE SARACHO		
UNIVERSITARIO: LUIS HECTOR GUTIERREZ HUMACATA	MATERIA: CIV-502 PROYECTO DE INGENIERIA CIVIL II	
PROYECTO: DISEÑO ESTRUCTURAL DE LA VIVIENDA SARGENTI DE 3 PISOS UBICADO EN EL BARRIO EL MOLINO TARIJA - CERCADO	ESCALA: INDICADA	PLANO N° 12
TITULO DE LAMINA: CUADRO DE COLUMNAS	FECHA: TARIJA DICIEMBRE DE 2022	



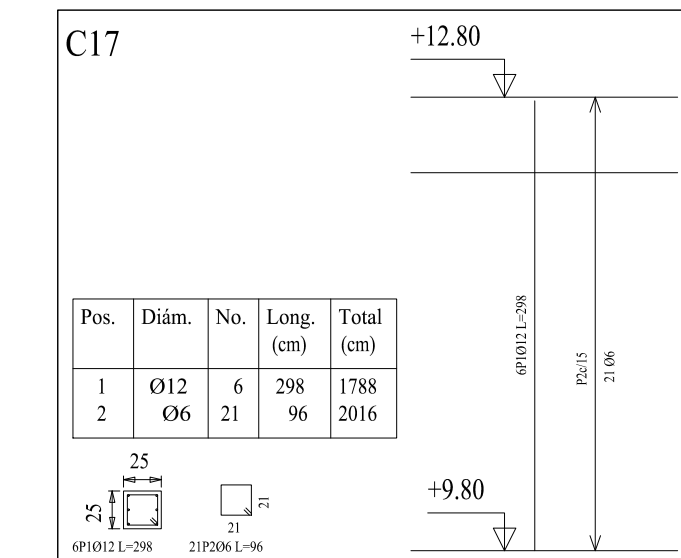
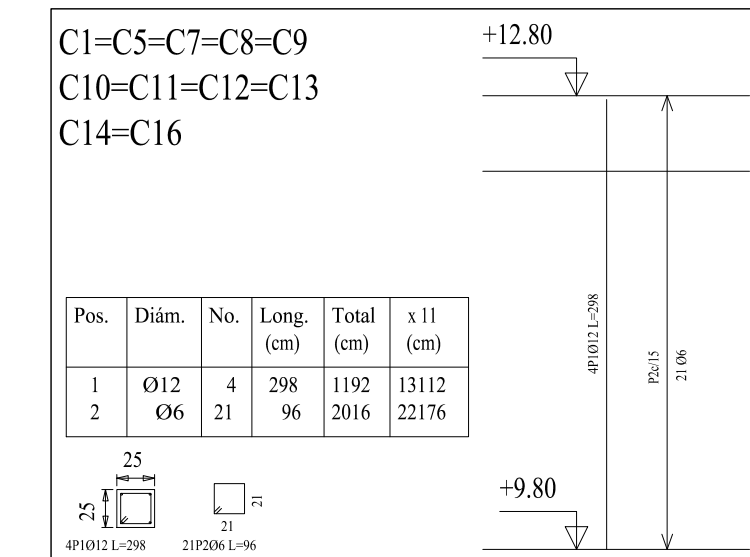
Pilares que terminan en Cubierta
 Hormigón: H-25 , Control Normal
 Acero: AH-500 , Control Normal
 Escala: 1:50

Resumen Acero Cubierta Pilares	Long. total (m)	Peso+5% (kg)	Total
AH-500CN Ø6	241.9	56	
Ø12	149.0	139	195



Pilares que terminan en PB
 Hormigón: H-25 , Control Normal
 Acero: AH-500 , Control Normal
 Escala: 1:50

Resumen Acero PB Pilares	Long. total (m)	Peso+5% (kg)	Total
AH-500CN Ø6	215.7	50	
Ø12	206.7	193	
Ø20	32.9	85	328



Pilares que terminan en Terraza
 Hormigón: H-25 , Control Normal
 Acero: AH-500 , Control Normal
 Escala: 1:50

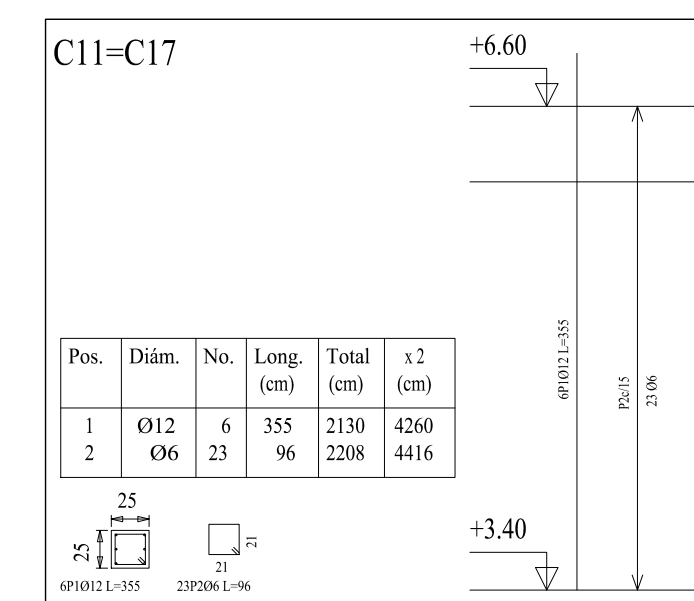
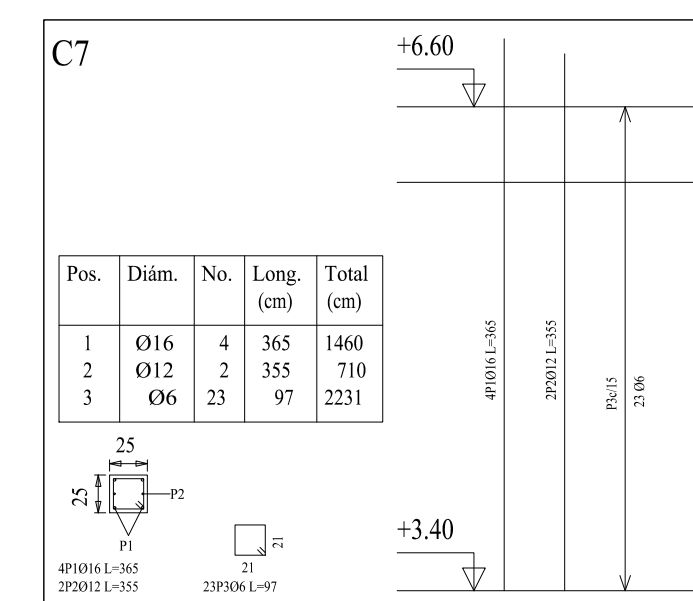
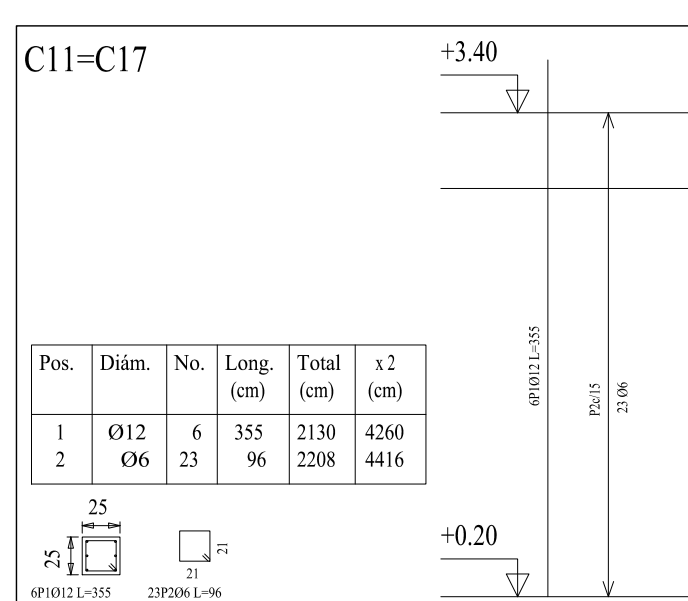
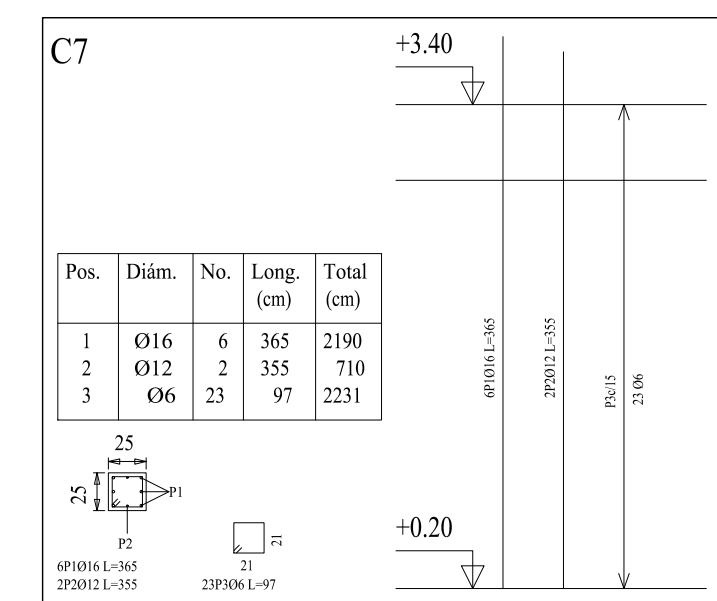
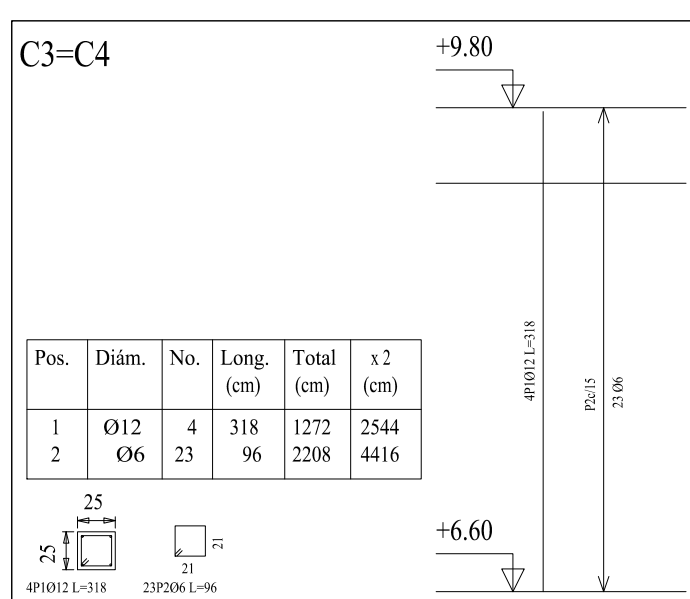
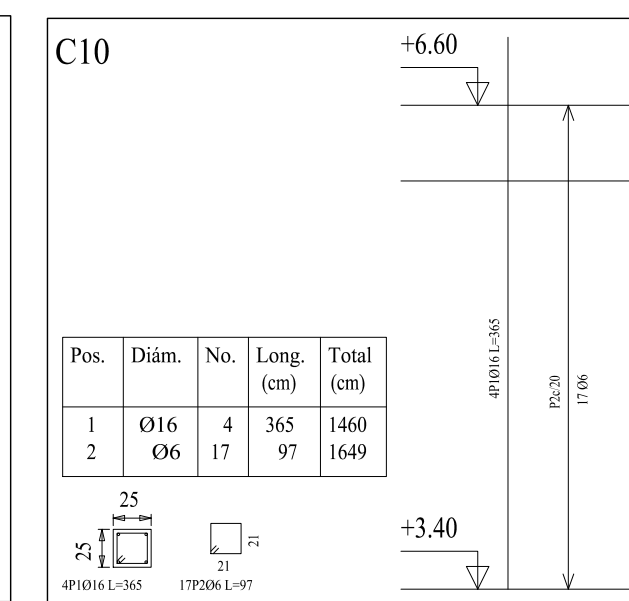
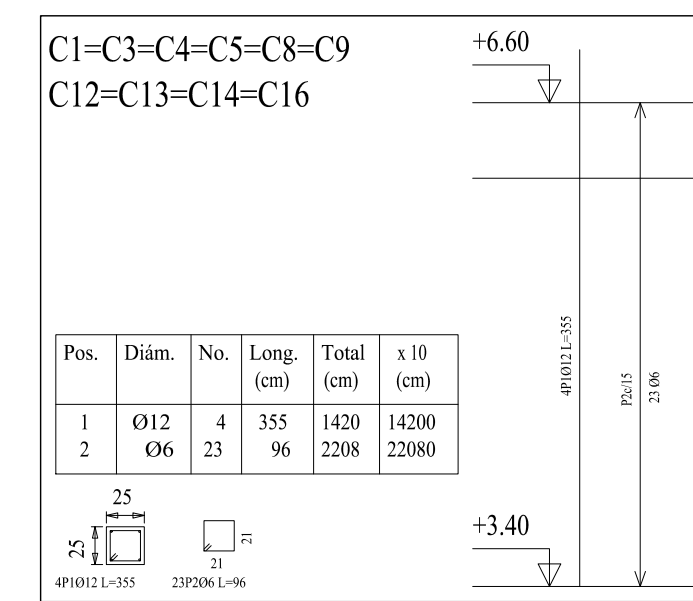
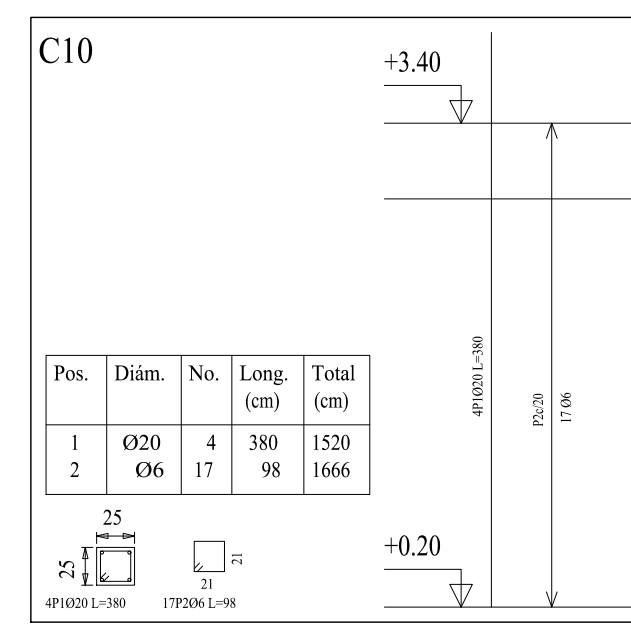
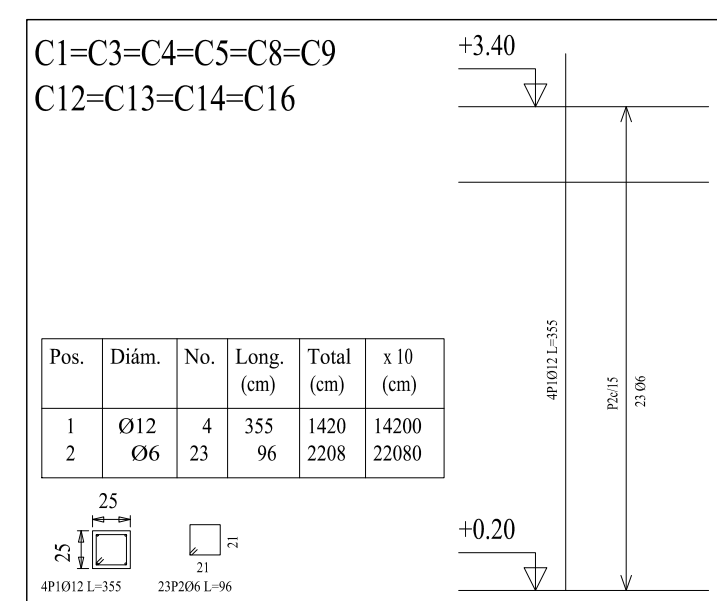
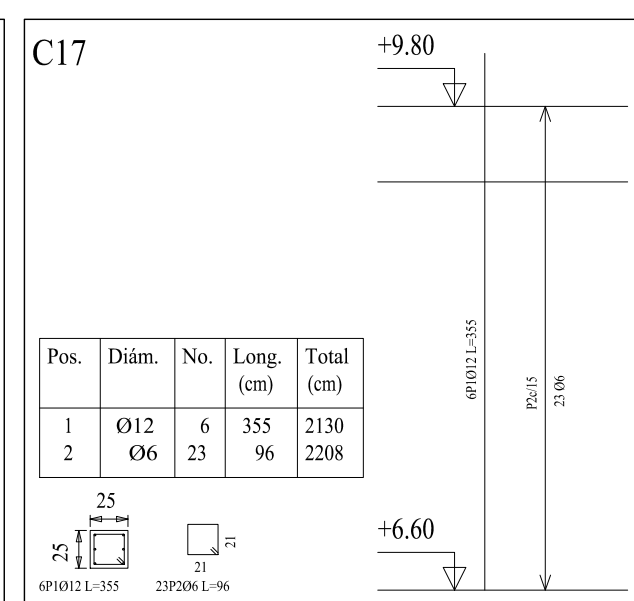
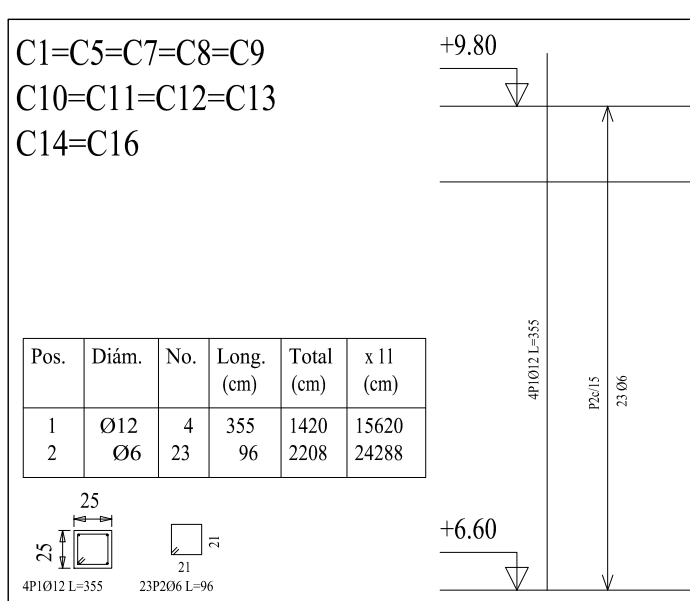
Resumen Acero Terraza Pilares	Long. total (m)	Peso+5% (kg)	Total
AH-500CN Ø6	309.1	72	
Ø12	202.9	189	261

Pilares que terminan en 1 er piso
 Hormigón: H-25 , Control Normal
 Acero: AH-500 , Control Normal
 Escala: 1:50

Resumen Acero 1 er piso Pilares	Long. total (m)	Peso+5% (kg)	Total
AH-500CN Ø6	303.9	71	
Ø12	191.7	179	
Ø16	21.9	36	
Ø20	15.2	39	325

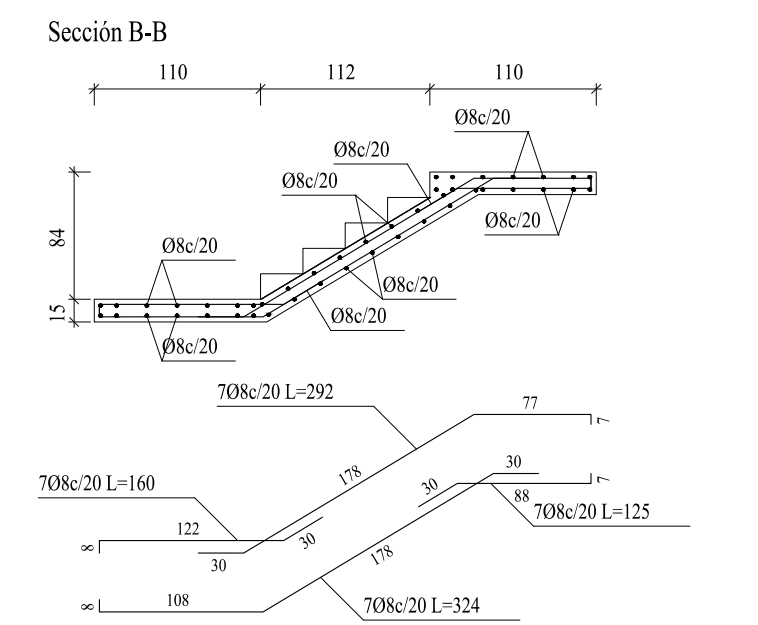
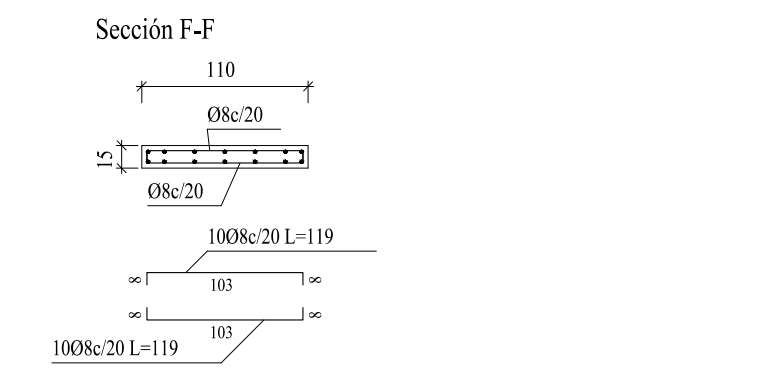
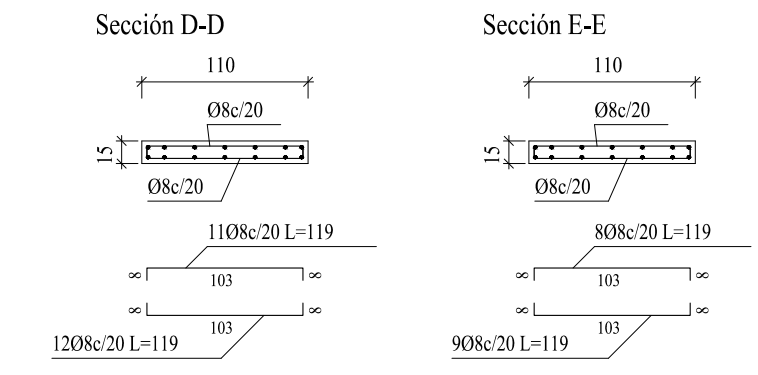
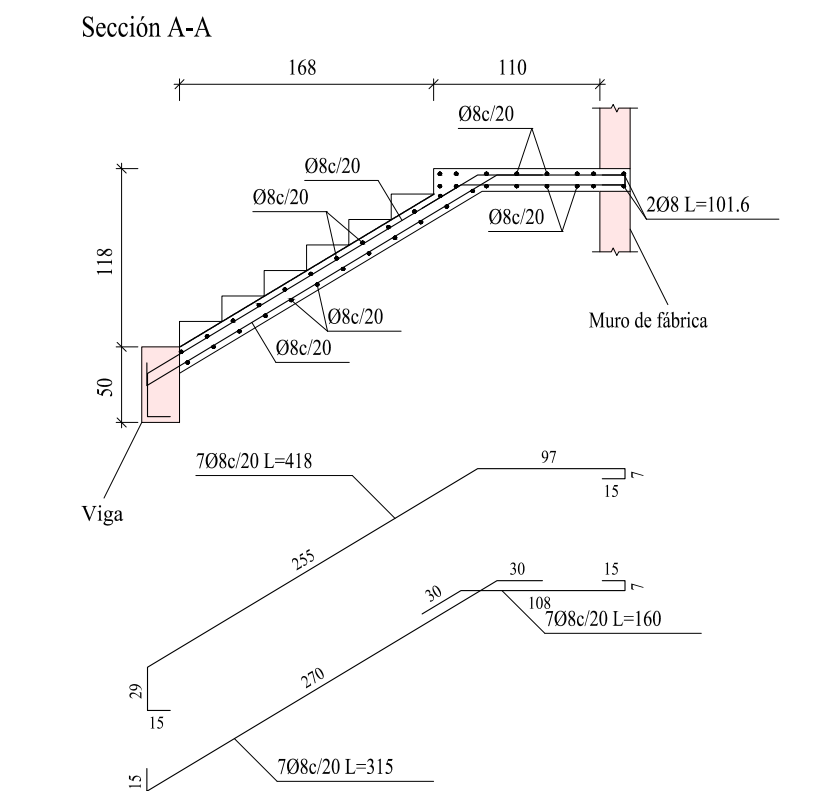
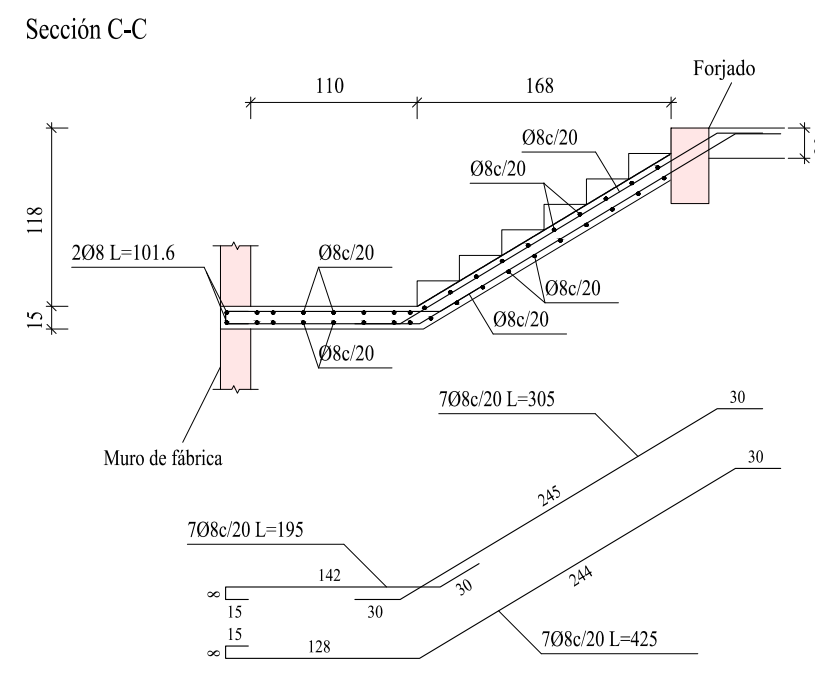
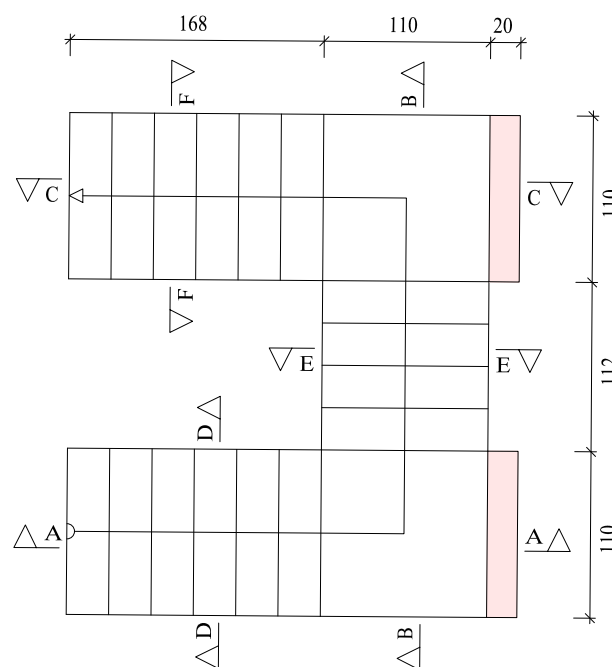
Pilares que terminan en 2 do piso
 Hormigón: H-25 , Control Normal
 Acero: AH-500 , Control Normal
 Escala: 1:50

Resumen Acero 2 do piso Pilares	Long. total (m)	Peso+5% (kg)	Total
AH-500CN Ø6	303.8	71	
Ø12	191.7	179	
Ø16	29.2	48	298



Escalera 1

esc	
Ámbito	1.100 m
Espesor	0.15 m
Huella	0.280 m
Contrahuella	0.168 m
Desnivel que salva	3.20 m
Nº de escalones	19
Planta final	1 er piso
Planta inicial	PB
Peso propio	3.68 kN/m ²
Peldañeado (Hormigonado con la losa)	1.77 kN/m ²
Solado	0.82 kN/m ²
Barandillas	0.30 kN/m
Sobrecarga de uso	3.00 kN/m ²
Hormigón	H-25 , Control Normal
Acero	AH-500 , Control Normal
Rec. geométrico	3.0 cm

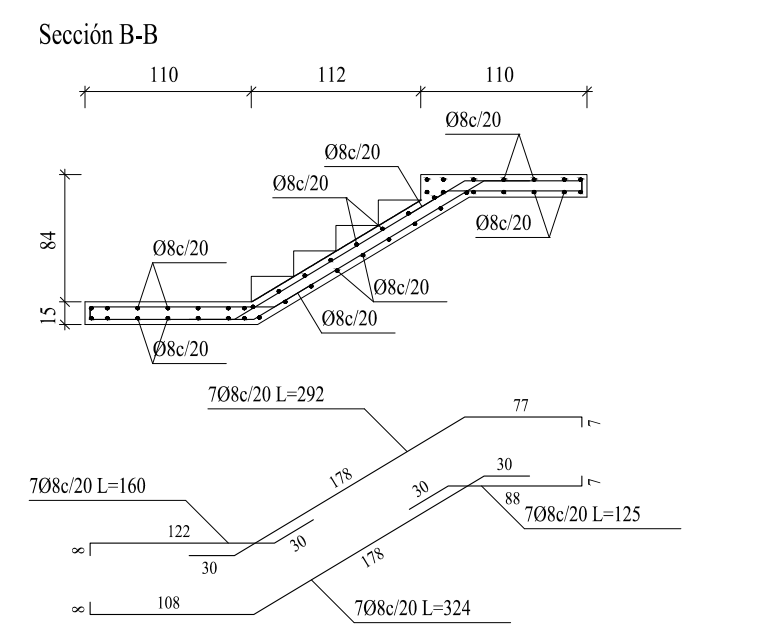
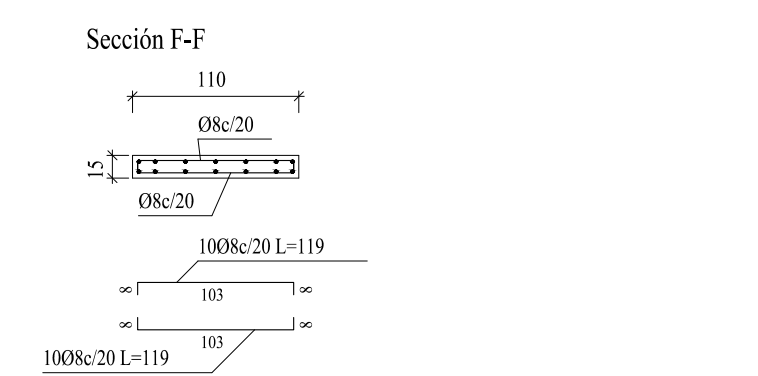
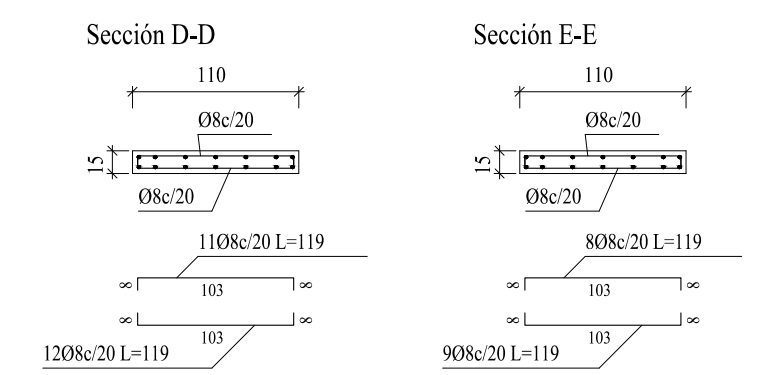
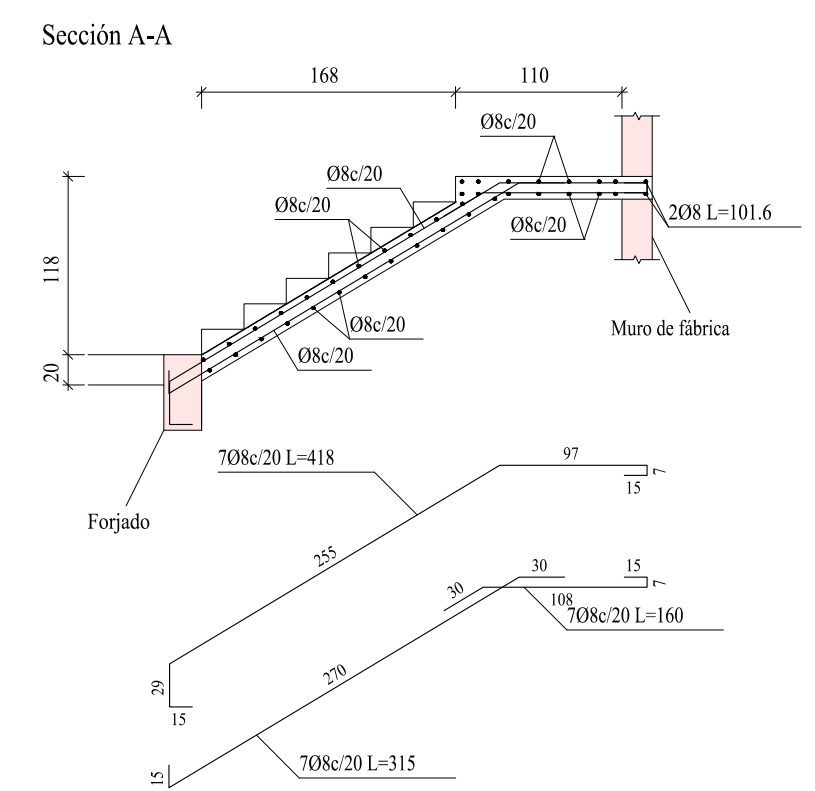
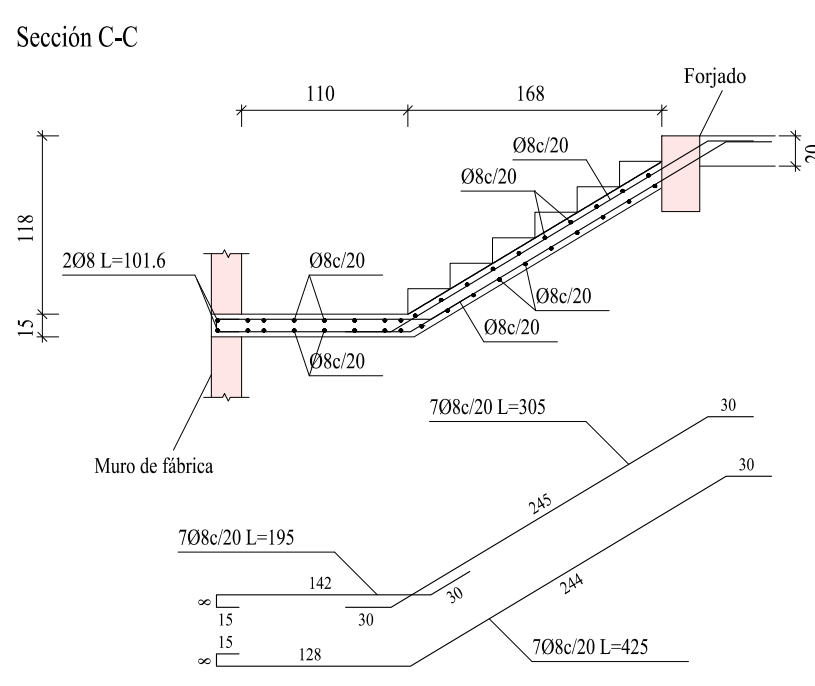
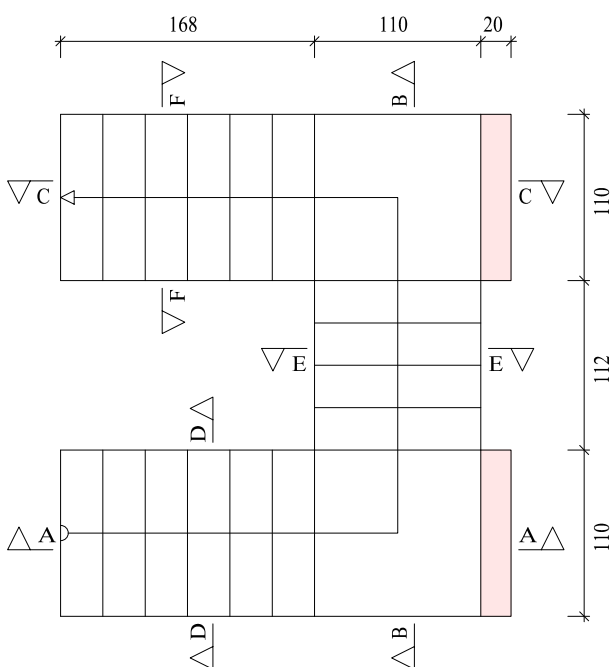


Resumen Acero Escalera 1	Long. total (m)	Peso+5% (kg)
AH-500CN Ø8	265.8	110

Escala 1:50

Escalera 2

esc	
Ámbito	1.100 m
Espesor	0.15 m
Huella	0.280 m
Contrahuella	0.168 m
Desnivel que salva	3.20 m
Nº de escalones	19
Planta final	2 do piso
Planta inicial	1 er piso
Peso propio	3.68 kN/m ²
Peldañeado (Hormigonado con la losa)	1.77 kN/m ²
Solado	0.82 kN/m ²
Barandillas	0.30 kN/m
Sobrecarga de uso	3.00 kN/m ²
Hormigón	H-25 , Control Normal
Acero	AH-500 , Control Normal
Rec. geométrico	3.0 cm

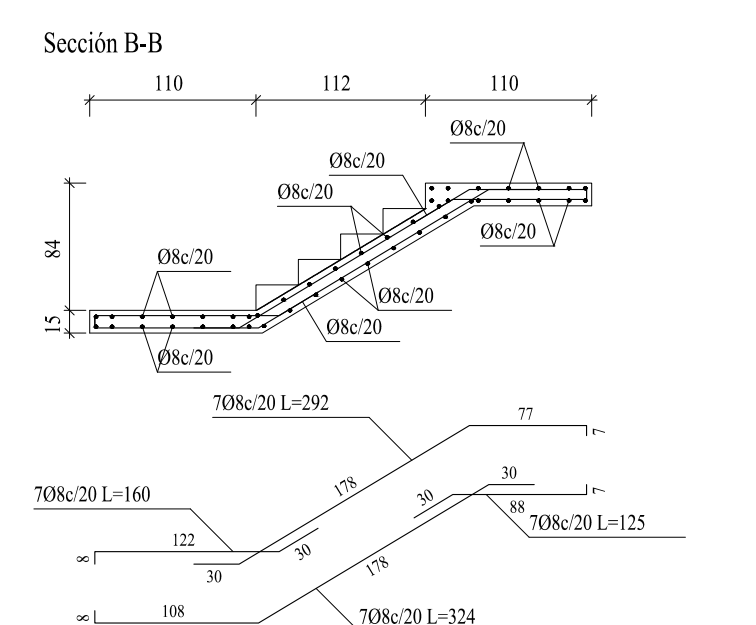
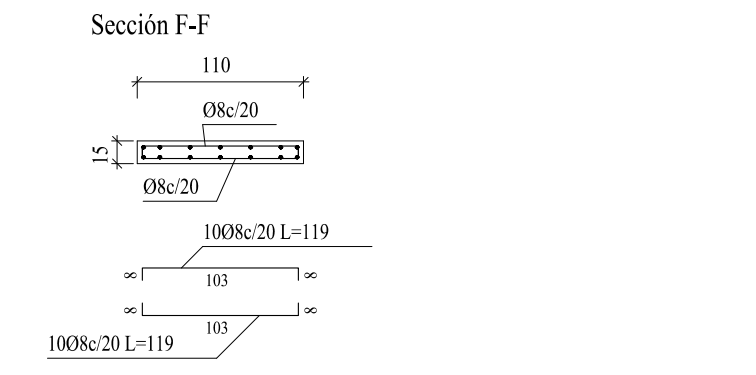
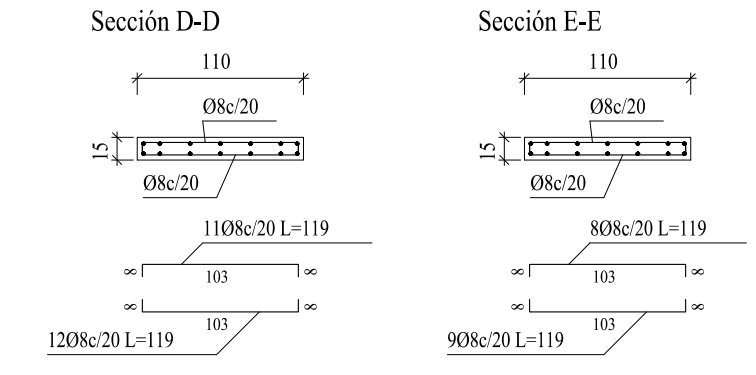
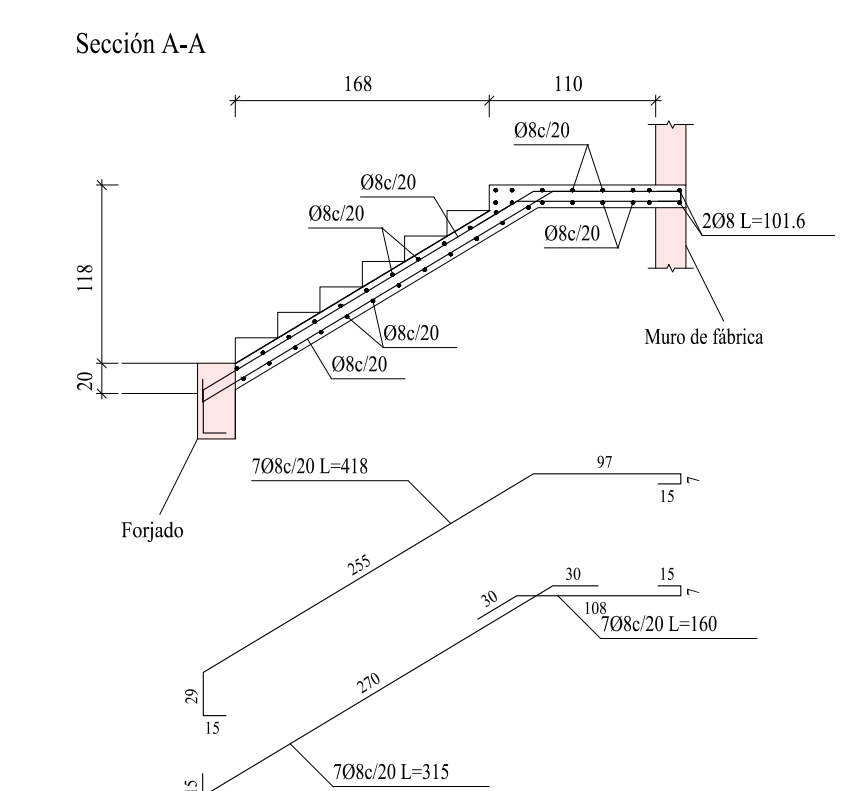
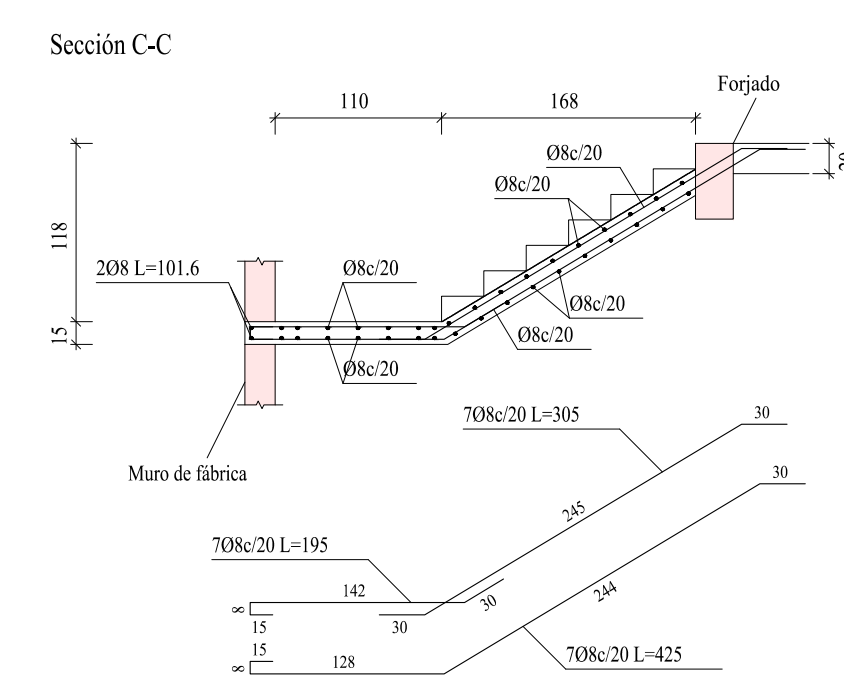
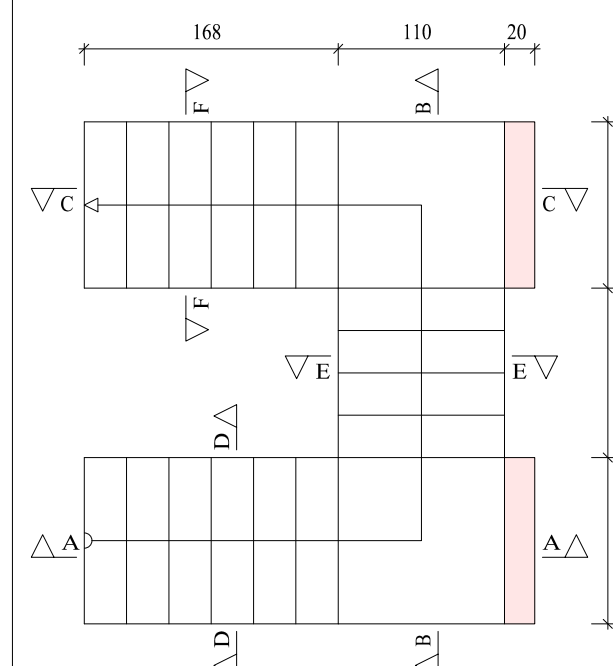


Resumen Acero Escalera 2	Long. total (m)	Peso+5% (kg)
AH-500CN Ø8	265.8	110

Escala 1:50

Escalera 3

esc	
Ámbito	1.100 m
Espesor	0.15 m
Huella	0.280 m
Contrahuella	0.168 m
Desnivel que salva	3.20 m
Nº de escalones	19
Planta final	Terraza
Planta inicial	2 do piso
Peso propio	3.68 kN/m ²
Peldañeado (Hormigonado con la losa)	1.77 kN/m ²
Solado	0.82 kN/m ²
Barandillas	0.30 kN/m
Sobrecarga de uso	3.00 kN/m ²
Hormigón	H-25 , Control Normal
Acero	AH-500 , Control Normal
Rec. geométrico	3.0 cm



Resumen Acero Escalera 3	Long. total (m)	Peso+5% (kg)
AH-500CN Ø8	265.8	110

Escala 1:50



UNIVERSIDAD A. JUAN MISAEL SARACHO

UNIVERSITARIO: LUIS HECTOR GUTIERREZ HUMACATA	MATERIA: CIV-502 PROYECTO DE INGENIERIA CIVIL II	PLANO Nº
PROYECTO: DISEÑO ESTRUCTURAL DE LA VIVIENDA SARAGENTI DE 3 PISOS UBICADO EN EL BARRIO EL MOLINO TARIJA - CERCADO	ESCALA: INDICADA	14
TITULO DE LAMINA: ESCALERAS	FECHA: TARIJA DICIEMBRE DE 2022	