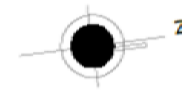
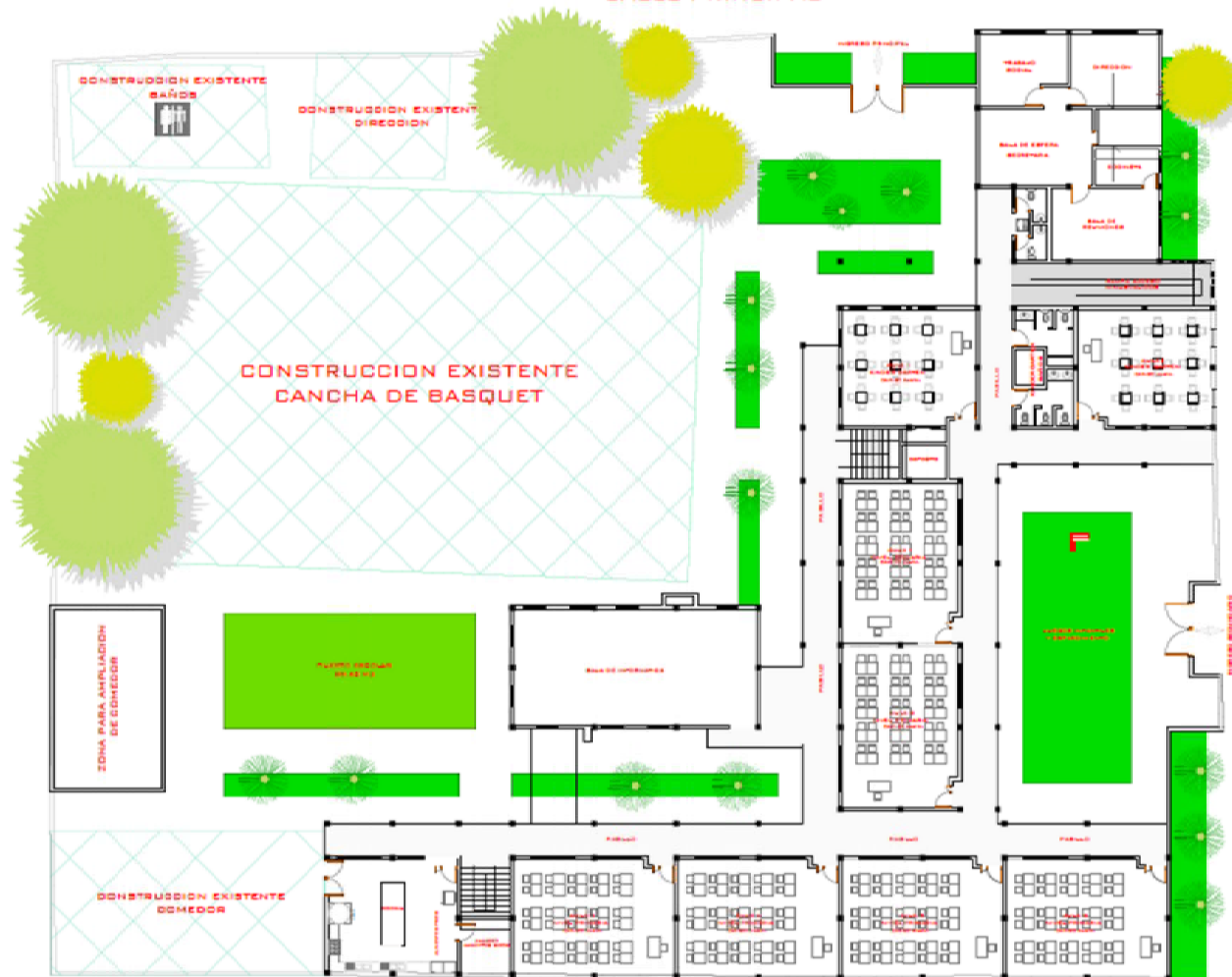


CALLE PRINCIPAL



SUP. 1110.77 M2

CALLE SECUNDARIA



PLANO ARQUITECTONICO

Estudiante:	Jesus Reynaldo Bejarano Bautista
Fecha:	Tja, Octubre 2024

1/2

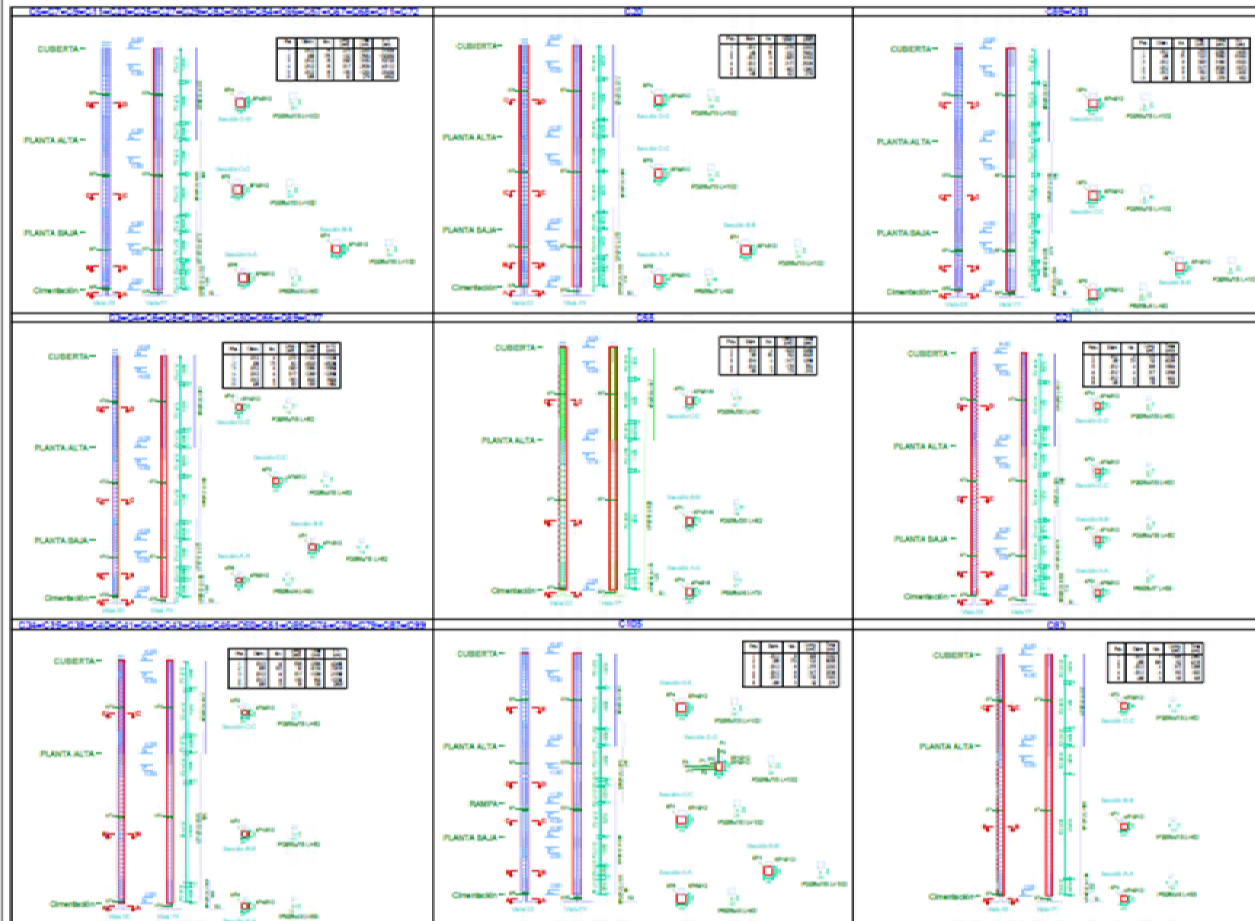
CALLE PRINCIPAL



CALLE SECUNDARIA

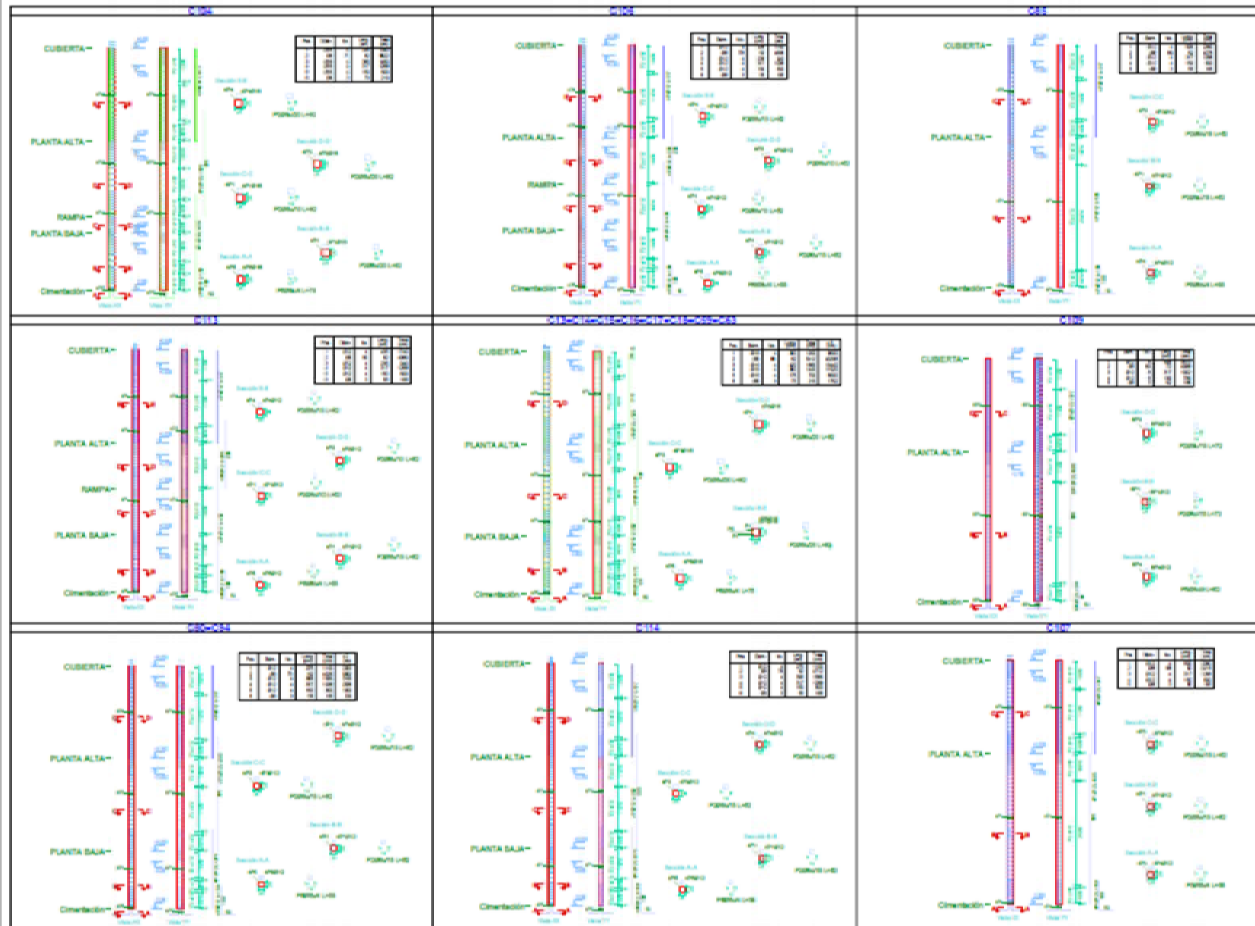
	UNIVERSIDAD AUTÓNOMA JUAN MISAEL SARACHO	
	DEPARTAMENTO DE ESTRUCTURAS	
	MATERIA: CIV-502 Proyecto de grado II	
	PLANO ARQUITECTONICO	
Proyecto: Construcción de la Unidad Educativa de la Unidad Educativa "Pascual Rodríguez"	Estudiante: Jesus Raymundo Delgado Bautista	2/2
Escala: 1:50	Fecha: 1ra. Octubre 2024	

PLANO DE COLUMNAS



Columna	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Columna	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

PLANO DE COLUMNAS



Columna	Alto	Ancho	Longitud	Superficie	Volumen	Peso
100	1.00	1.00	1.00	1.00	1.00	1.00
101	1.00	1.00	1.00	1.00	1.00	1.00
102	1.00	1.00	1.00	1.00	1.00	1.00
103	1.00	1.00	1.00	1.00	1.00	1.00
104	1.00	1.00	1.00	1.00	1.00	1.00
105	1.00	1.00	1.00	1.00	1.00	1.00
106	1.00	1.00	1.00	1.00	1.00	1.00
107	1.00	1.00	1.00	1.00	1.00	1.00
108	1.00	1.00	1.00	1.00	1.00	1.00
109	1.00	1.00	1.00	1.00	1.00	1.00
110	1.00	1.00	1.00	1.00	1.00	1.00
111	1.00	1.00	1.00	1.00	1.00	1.00
112	1.00	1.00	1.00	1.00	1.00	1.00
113	1.00	1.00	1.00	1.00	1.00	1.00
114	1.00	1.00	1.00	1.00	1.00	1.00
115	1.00	1.00	1.00	1.00	1.00	1.00
116	1.00	1.00	1.00	1.00	1.00	1.00
117	1.00	1.00	1.00	1.00	1.00	1.00
118	1.00	1.00	1.00	1.00	1.00	1.00
119	1.00	1.00	1.00	1.00	1.00	1.00
120	1.00	1.00	1.00	1.00	1.00	1.00
121	1.00	1.00	1.00	1.00	1.00	1.00
122	1.00	1.00	1.00	1.00	1.00	1.00
123	1.00	1.00	1.00	1.00	1.00	1.00
124	1.00	1.00	1.00	1.00	1.00	1.00
125	1.00	1.00	1.00	1.00	1.00	1.00
126	1.00	1.00	1.00	1.00	1.00	1.00
127	1.00	1.00	1.00	1.00	1.00	1.00
128	1.00	1.00	1.00	1.00	1.00	1.00
129	1.00	1.00	1.00	1.00	1.00	1.00
130	1.00	1.00	1.00	1.00	1.00	1.00
131	1.00	1.00	1.00	1.00	1.00	1.00
132	1.00	1.00	1.00	1.00	1.00	1.00
133	1.00	1.00	1.00	1.00	1.00	1.00
134	1.00	1.00	1.00	1.00	1.00	1.00
135	1.00	1.00	1.00	1.00	1.00	1.00
136	1.00	1.00	1.00	1.00	1.00	1.00
137	1.00	1.00	1.00	1.00	1.00	1.00
138	1.00	1.00	1.00	1.00	1.00	1.00
139	1.00	1.00	1.00	1.00	1.00	1.00
140	1.00	1.00	1.00	1.00	1.00	1.00
141	1.00	1.00	1.00	1.00	1.00	1.00
142	1.00	1.00	1.00	1.00	1.00	1.00
143	1.00	1.00	1.00	1.00	1.00	1.00
144	1.00	1.00	1.00	1.00	1.00	1.00
145	1.00	1.00	1.00	1.00	1.00	1.00
146	1.00	1.00	1.00	1.00	1.00	1.00
147	1.00	1.00	1.00	1.00	1.00	1.00
148	1.00	1.00	1.00	1.00	1.00	1.00
149	1.00	1.00	1.00	1.00	1.00	1.00
150	1.00	1.00	1.00	1.00	1.00	1.00

Figure 10 displays six diagrams showing the layout of the proposed station for different combinations of platform length (P1, P2, P3) and platform width (W1, W2, W3). The diagrams are arranged in a 3x2 grid, with the left column showing the layout for P1=100m, P2=100m, and P3=100m, and the right column showing the layout for P1=100m, P2=100m, and P3=100m. Each diagram includes a plan view of the station with tracks, platforms, and stairs, and a corresponding table of dimensions.

The diagrams are labeled as follows:

- Top Left: P1=100m, W1=10m, W2=10m, W3=10m
- Top Right: P1=100m, W1=10m, W2=10m, W3=10m
- Middle Left: P1=100m, W1=10m, W2=10m, W3=10m
- Middle Right: P1=100m, W1=10m, W2=10m, W3=10m
- Bottom Left: P1=100m, W1=10m, W2=10m, W3=10m
- Bottom Right: P1=100m, W1=10m, W2=10m, W3=10m

Each diagram includes a plan view of the station with tracks, platforms, and stairs, and a corresponding table of dimensions.

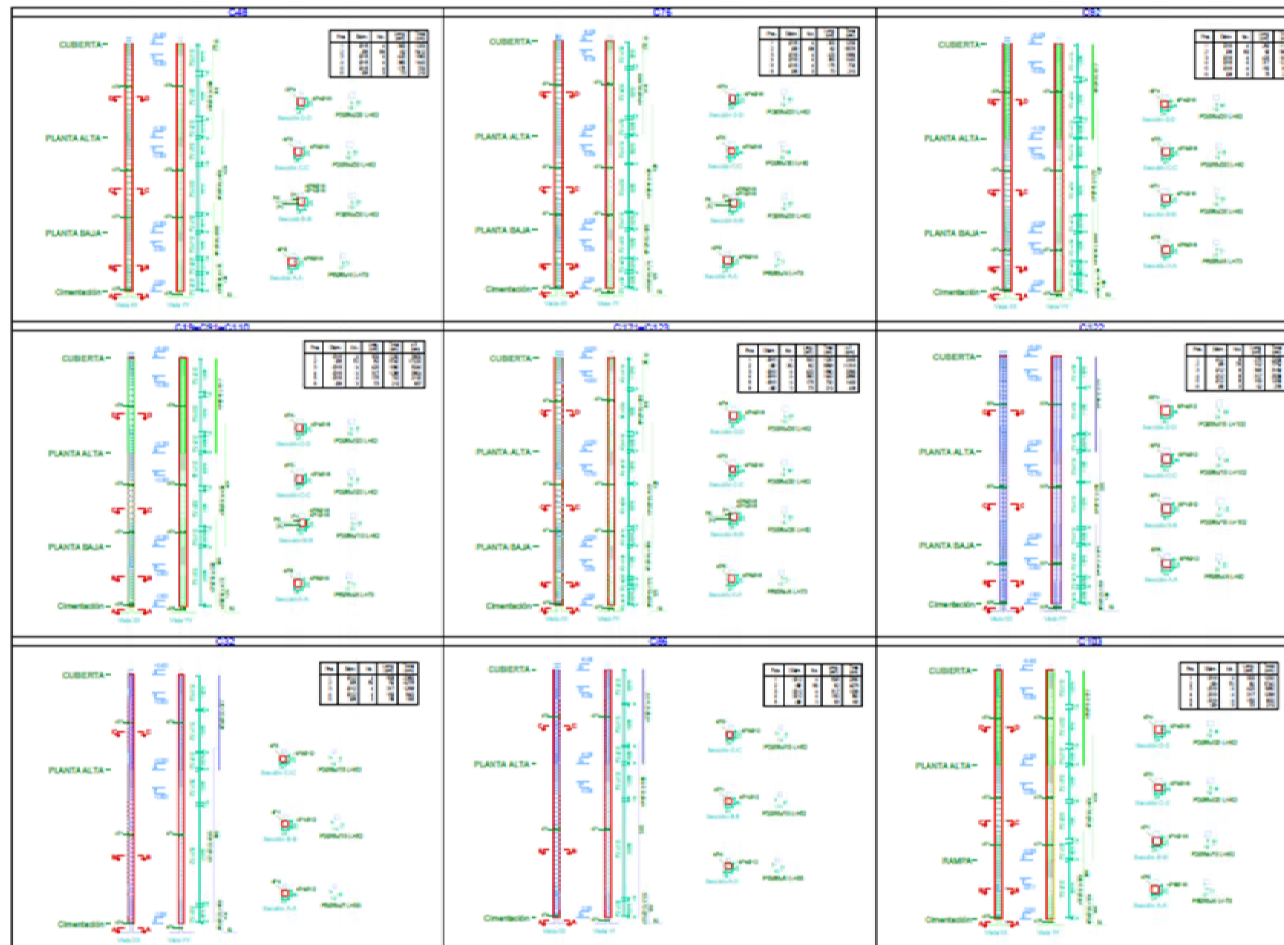
[illegible]

DEPARTAMENTO DE ESTRUCTURAS

PLANO DE COLUMNAS

Proyecto: Diseño Estructural de la Unidad Educativa Luis de Piedras - Pampa Redonda	Elaborante: Jesus Reynaldo Bejarano Bautista
Escala: 1:70	Fecha: 14 de Octubre 2024

PLANO DE COLUMNAS

[illegible]

UNIVERSIDAD AUTÓNOMA JUAN MISAEL SARACHO

DEPARTAMENTO DE ESTRUCTURAS

MATERIA: CIV-502 Proyecto de grado II

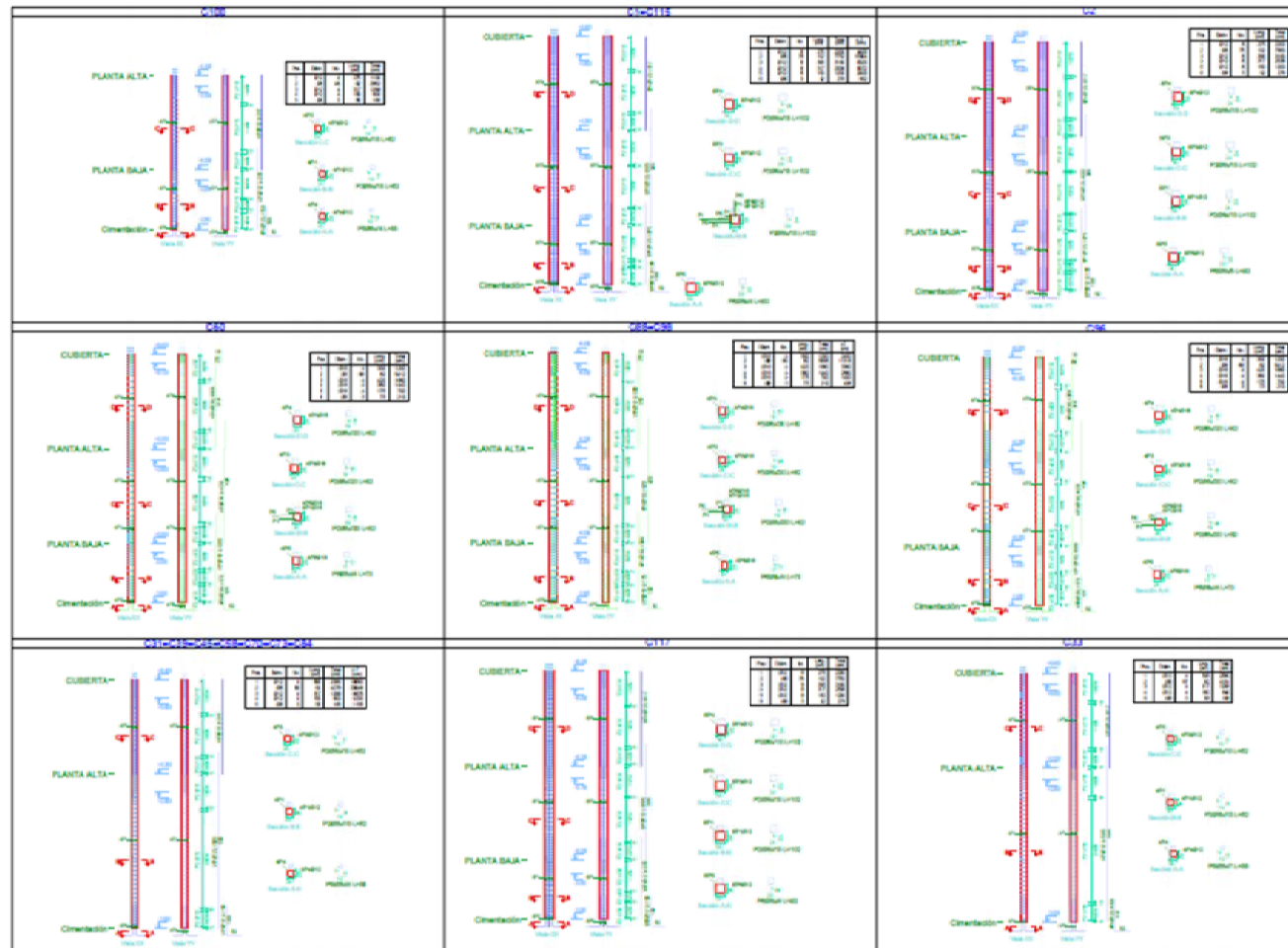
PLANO DE COLUMNAS

Proyecto:
Círculo Cultural de la Unidad Educativa
Luis de Fuentes - Pampa Redonda

Escala: 1:75

Estudiante:	Jesús Reynaldo Bejarano B.
Fecha:	Tja, Octubre 2024

PLANO DE COLUMNAS



Element	PA	Chemical (Å ³)	Excitation (eV)	Energy (eV)	Intensity (a.u.)
C1s	1		285	285.000	100
	2		285	285.000	90
	3		285	285.000	80
	4		285	285.000	70
	5		285	285.000	60
C1s	1		285	285.000	100
	2		285	285.000	90
	3		285	285.000	80
	4		285	285.000	70
	5		285	285.000	60
C1s	1		285	285.000	100
	2		285	285.000	90
	3		285	285.000	80
	4		285	285.000	70
	5		285	285.000	60
C1s	1		285	285.000	100
	2		285	285.000	90
	3		285	285.000	80
	4		285	285.000	70
	5		285	285.000	60
C1s	1		285	285.000	100
	2		285	285.000	90
	3		285	285.000	80
	4		285	285.000	70
	5		285	285.000	60
C1s	1		285	285.000	100
	2		285	285.000	90
	3		285	285.000	80
	4		285	285.000	70
	5		285	285.000	60
C1s	1		285	285.000	100
	2		285	285.000	90
	3		285	285.000	80
	4		285	285.000	70
	5		285	285.000	60
C1s	1		285	285.000	100
	2		285	285.000	90
	3		285	285.000	80
	4		285	285.000	70
	5		285	285.000	60
C1s	1		285	285.000	100
	2		285	285.000	90
	3		285	285.000	80
	4		285	285.000	70
	5		285	285.000	60
C1s	1		285	285.000	100
	2		285	285.000	90
	3		285	285.000	80
	4		285	285.000	70
	5		285	285.000	60
C1s	1		285	285.000	100
	2		285	285.000	90
	3		285	285.000	80
	4		285	285.000	70
	5		285	285.000	60
C1s	1		285	285.000	100
	2		285	285.000	90
	3		285	285.000	80
	4		285	285.000	70
	5		285	285.000	60
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	2		285	285.000	90
	3		285	285.000	80
	4		285	285.000	70
	5		285	285.000	60
C1s	1		285	285.000	100
	2		285	285.000	90
	3		285	285.000	80
	4		285	285.000	70
	5		285	285.000	60
C1s	1		285	285.000	100
	2		285	285.000	90
	3		285	285.000	80
	4		285	285.000	70
	5		285	285.000	60
C1s	1		285	285.000	100
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	3		285	285.000	80
	4		285	285.000	70
	5		285	285.000	60
C1s	1		285	285.000	100
	2		285	285.000	90
	3		285	285.000	80
	4		285	285.000	70
	5		285	285.000	60
C1s	1		285	285.000	100
	2		285	285.000	90
	3		285	285.000	80
	4		285	285.000	70
	5		285	285.000	60
C1s	1		285	285.000	100
	2		285	285.000	90
	3		285	285.000	80
	4		285	285.000	70
	5		285	285.000	60
C1s	1		285	285.000	100
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	3		285	285.000	80
	4		285	285.000	70
	5		285	285.000	60
C1s	1		285	285.000	100
	2		285	285.000	90
	3		285	285.000	80
	4		285	285.000	70
	5		285	285.000	60
C1s	1		285	285.000	100
	2		285	285.000	90
	3		285	285.000	80
	4		285	285.000	70
	5		285	285.000	60
C1s	1		285	285.000	100
	2		285	285.000	90
	3		285	285.000	80
	4		285	285.000	70
	5		285	285.000	60
C1s	1		285	285.000	100
	2		285	285.000	90
	3		285	285.000	80
	4		285	285.000	70
	5		285	285.000	60
C1s	1		285	285.000	100
	2		285	285.000	90
	3		285	285.000	80
	4		285	285.000	70
	5		285	285.000	60
C1s	1		285	285.000	100
	2		285	285.000	90
	3		285	285.000	80
	4		285	285.000	70
	5		285	285.000	60
C1s	1		285	285.000	100
	2		285	285.000	90
	3		285	285.000	80
	4		285	285.000	70
	5		285	285.000	60
C1s	1		285	285.000	100
	2		285	285.000	90
	3		285	285.000	80
	4		285	285.000	70
	5		285	285.000	60
C1s	1		285	285.000	100
	2		285	285.000	90
	3		285	285.000	80
	4		285	285.000	70
	5		285	285.000	60
C1s	1		285	285.000	100
	2		285	285.000	90
	3		285	285.000	80
	4		285	285.000	70
	5		285	285.000	60
C1s	1		285	285.000	100
	2		285	285.000	90
	3		285	285.000	80
	4		285	285.000	70
	5		285	285.000	60
C1s	1		285	285.000	100
	2		285	285.000	90
	3		285	285.000	80
	4		285	285.000	70
	5		285	285.000	60
C1s	1		285	285.000	100
	2		2		



UNIVERSIDAD AUTÓNOMA JUAN MISAEL SARACHO

DEPARTAMENTO DE ESTRUCTURAS

MATERIA: CIV-502 Proyecto de grado II

PLANO DE COLUMNAS

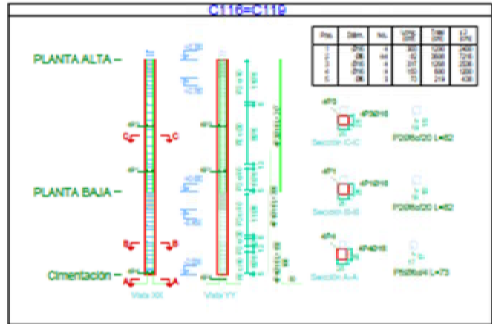
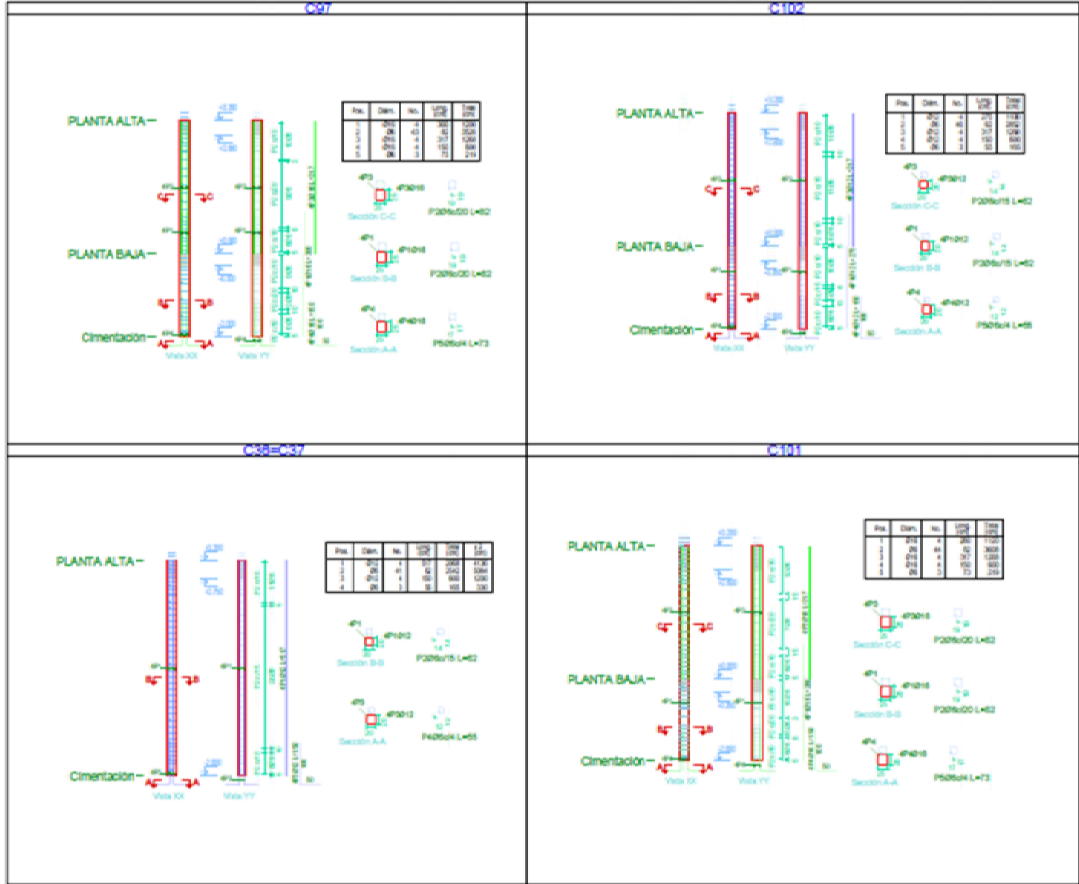
Proyecto:
Diseño Estructural de la Unidad Educativa
Luis de Fuentes - Pampa Redonda

Escala: 1:70

Estudiante:	Jesús Reynaldo Bejarano B
Fecha:	13 de Octubre 2024

5/6

PLANO DE COLUMNAS



Scenario	Pre-Disaster	Pre-Disaster Loss	Post-Disaster Loss	Pre-Disaster Loss (No Prep)
DR	1	250		250
	2	250		250
	3	250		250
	4	250		250
DRB	1	250		250
	2	250		250
	3	250		250
	4	250		250
DRB+BC	1	250		250
	2	250		250
	3	250		250
	4	250		250
DRB+P	1	250		250
	2	250		250
	3	250		250
	4	250		250
DRB+P+BC	1	250		250
	2	250		250
	3	250		250
	4	250		250

ESCALERA DE DOS TRAMOS

[illegible]

Diagrama de um sistema de vigas e pilares. A viga principal (Viga) tem uma altura de 40 cm e uma largura de 225 cm. O pilar tem uma altura de 115 cm e uma largura de 40 cm. O sistema é composto por uma viga principal e um pilar, com uma conexão entre eles. As dimensões e os tipos de aço são indicados no diagrama.

Technical drawing of a rectangular plate. The top view shows a rectangle with a width of 130 and a height of 20. The material is specified as 15P13010c/20 L=145. The side view shows a rectangle with a width of 120 and a height of 20. The material is specified as 16P13010c/20 L=145.

Technical drawing of a rectangular plate with the following specifications:

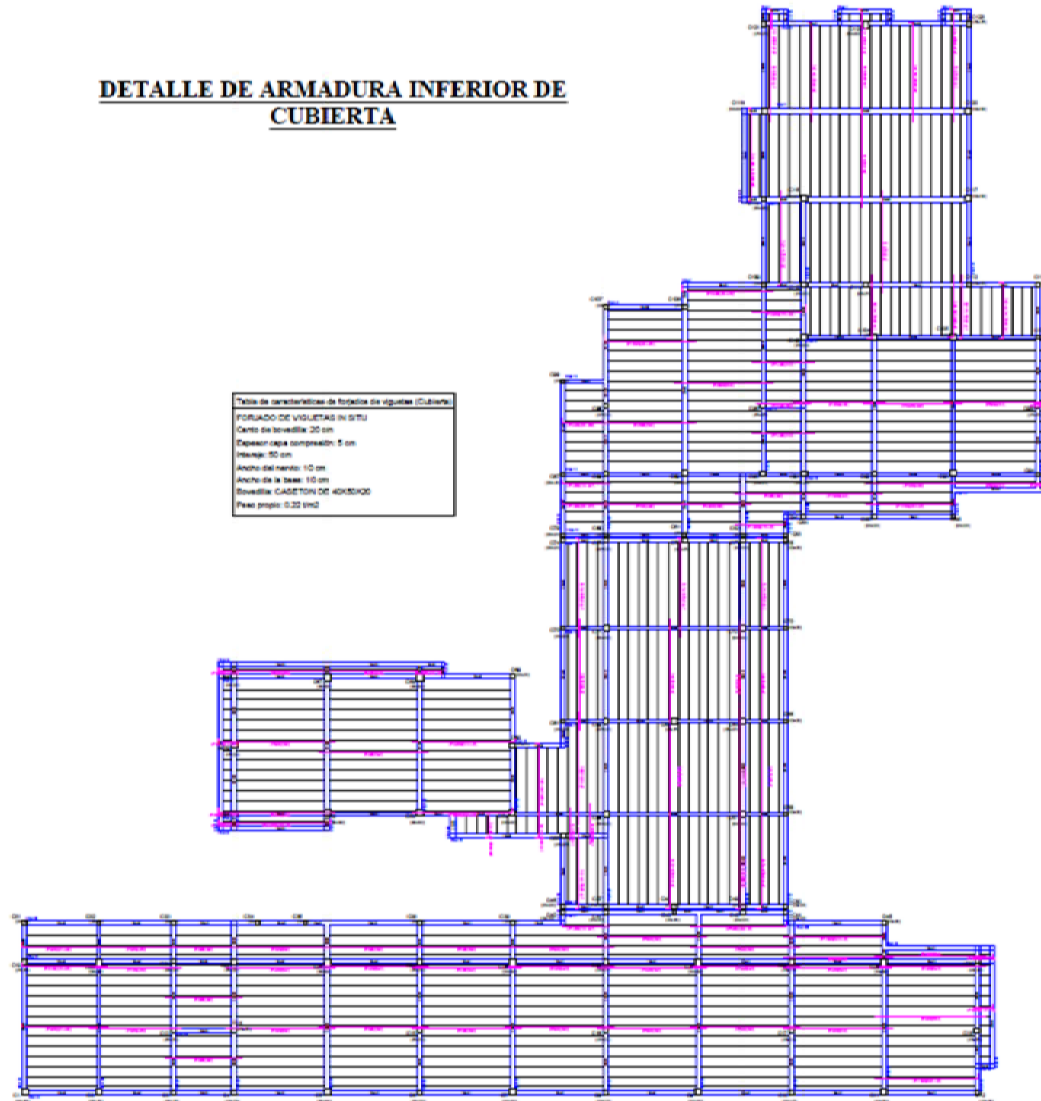
- Overall width: 115
- Overall height: 20
- Top hole: $\varnothing 10 \times 20$
- Bottom hole: $\varnothing 12 \times 20$
- Top hole position: 1P14 $\varnothing 10$ L=134
- Bottom hole position: 1P15 $\varnothing 12$ L=134
- Distance between hole centers: 108

ESCALERA DE DOS TRAMOS		
Geometría	Amplito	1.300 m
	Espesor	0.20 m
	Huella	0.250 m
	Contrahuella	0.160 m
	Desnivel que salva	3.20 m
	Nº de escalones	20
Cargas	Planta final	PLANTA ALTA
	Planta inicial	PLANTA BAJA
	Peso propio	4.91 kN/m ²
	Revestido (Homologado con la obra)	1.65 kN/m ²
	Solado	1.00 kN/m ²
	Barandillas	3.00 kN/m
Materiales	Sobrecarga de uso	4.00 kN/m ²
	Hormigón	H-21
	Acero	AH-420
	Rec. geométrico	3.0 m

	UNIVERSIDAD AUTÓNOMA JUAN MISSEL SARACHO		1/2
	DEPARTAMENTO DE ESTRUCTURAS		
	MATERIA: CIV-502 Proyecto de grado II		
	PLANO DE ESCALERAS		
Proyecto: Diseño Estructural de la Unidad Educativa de la Facultad "Pamela Rosales"	Catedrático: Jesús Reynaldo Benjumea Bautista		1/2
Escala: 1:50	Fecha: 1 ^a Octubre 2024		

DETALLE DE ARMADURA INFERIOR DE CUBIERTA

Todos de características de Rodillos de vigas (Cubierta)
 FORJADO DE VIGUETAS IN SITU
 Centro de la viga: 25 cm
 Espesor capa compacta: 5 cm
 Ancho: 10 cm
 Ancho del nudo: 10 cm
 Ancho de la base: 10 cm
 Rodillos: CANTON DE 40x50x50
 Peso propio: 0.22 m³



Elemento	Pos.	Diám.	No.	Long. (cm)	Totales (cm)	Ar-A-500 (kg)
Armadura inferior	1	Ø8	2	450	900	1.8
	2	Ø8	36	450	16200	32.4
	3	Ø8	40	580	23200	46.4
	4	Ø8	40	540	21600	43.2
	5	Ø8	328	550	180400	3608.0
	6	Ø8	44	510	22440	44.8
	7	Ø8	12	480	5760	11.5
	8	Ø8	80	510	40800	816.0
	9	Ø8	30	480	14400	28.8
	10	Ø8	18	430	7740	15.5
	11	Ø8	8	560	4480	8.9
	12	Ø8	4	280	1120	2.2
	13	Ø8	10	280	2800	5.6
	14	Ø8	24	310	7440	14.9
	15	Ø8	8	440	3520	7.0
	16	Ø8	40	540	21600	43.2
	17	Ø8	6	470	2820	5.6
	18	Ø8	30	540	16200	32.4
	19	Ø8	2	320	640	1.3
	20	Ø8	14	310	4340	8.7
	21	Ø8	5	430	2150	4.3
	22	Ø8	10	280	2800	5.6
	23	Ø8	2	280	560	1.1
	24	Ø8	18	320	5760	11.5
	25	Ø8	18	430	7740	15.5
	26	Ø8	40	550	22000	44.0
	27	Ø8	12	110	1320	2.6
	28	Ø8	2	140	280	0.6
	29	Ø8	30	120	3600	7.2
	30	Ø8	4	430	1720	3.4
	31	Ø8	2	440	880	1.8
	32	Ø8	30	530	15900	31.8
	33	Ø8	4	430	1720	3.4
	34	Ø8	28	440	12320	24.6
	35	Ø8	18	530	9540	19.1
	36	Ø8	28	520	14560	29.1
	37	Ø8	10	150	1500	3.0
	38	Ø8	10	170	1700	3.4
	39	Ø8	2	180	360	0.7
	40	Ø8	8	280	2240	4.5
	41	Ø8	2	530	1060	2.1
	42	Ø8	2	180	360	0.7
	43	Ø8	10	580	5800	11.6
Total: 1074						2204.8
Peso: 2204.8						
Total: 2204.8						