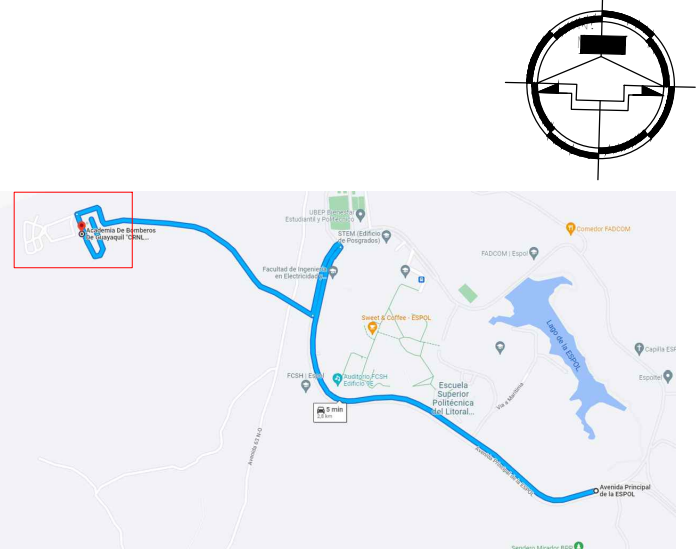




UBICACIÓN



Arq. Jairo Parrales Parrales
Administrador del contrato

CONSULTORÍA: "CONTRATACIÓN
DE ESTUDIOS PREVIOS PARA LA
AMPLIACIÓN DE LA ACADEMIA DE
BOMBEROS GUAYAQUIL CRNL.
GABRIEL GÓMEZ SÁNCHEZ"

Ubicación:
Cantón Guayaquil.

Contiene:
**BLOQUE 4_ AULAS
ALZADO DE COLUMNAS**

Empresa Consultora:

Arq. Jacques Carchi G.
Reg. Prof.: G-5291

Responsable de Diseño:

Ing. Walter James Flores Zambrano
Reg. Prof.: 1021-2017-1845803

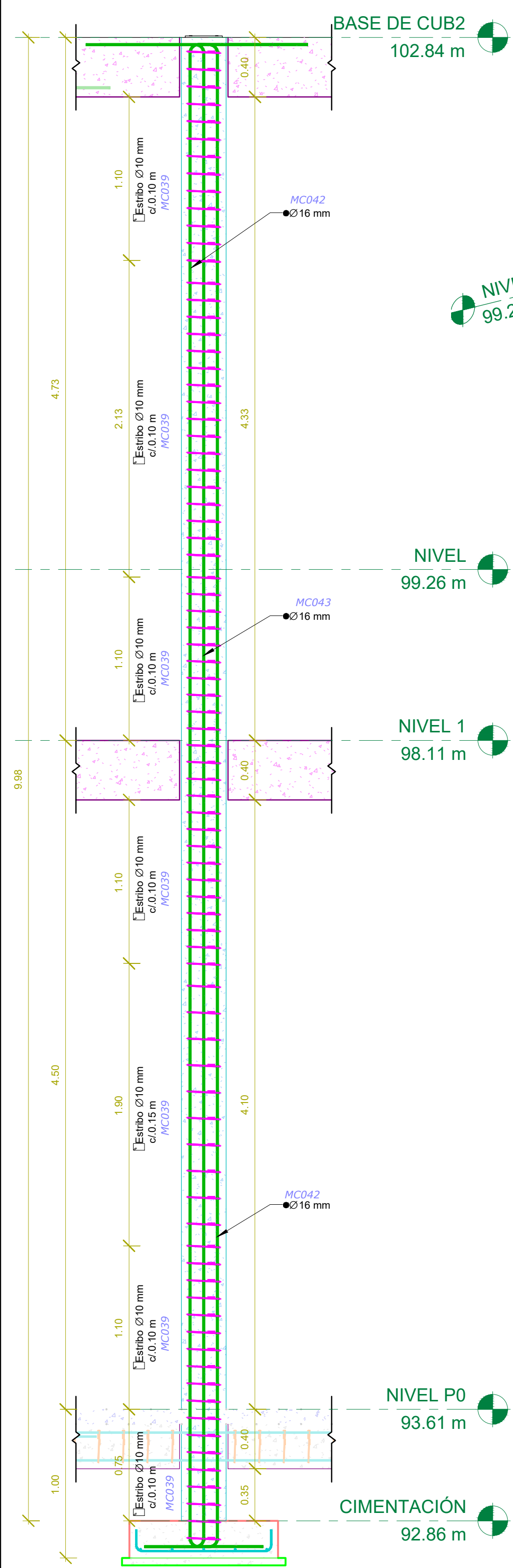
Fecha:
MARZO

Escala:
Como se indica

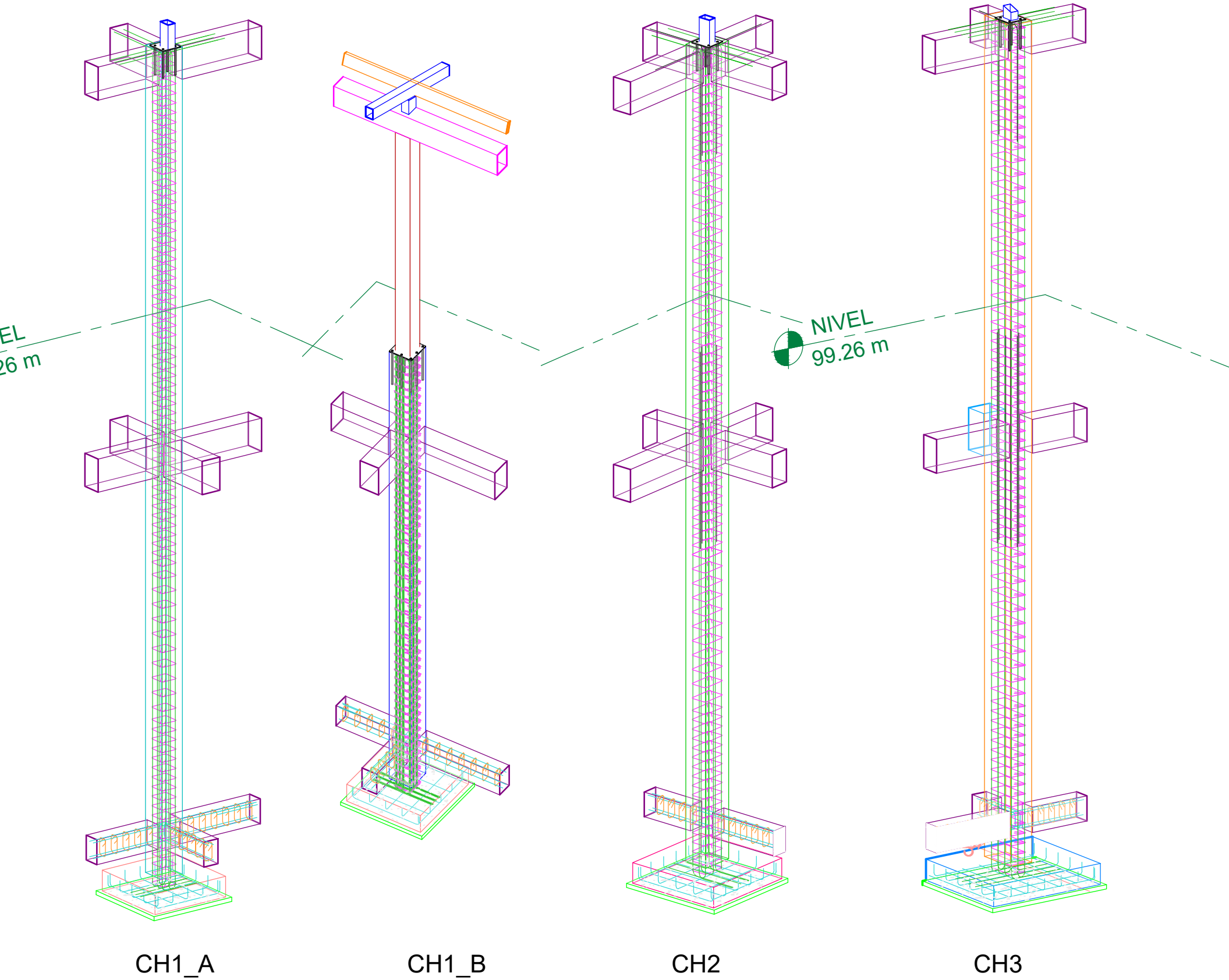
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Lámina:

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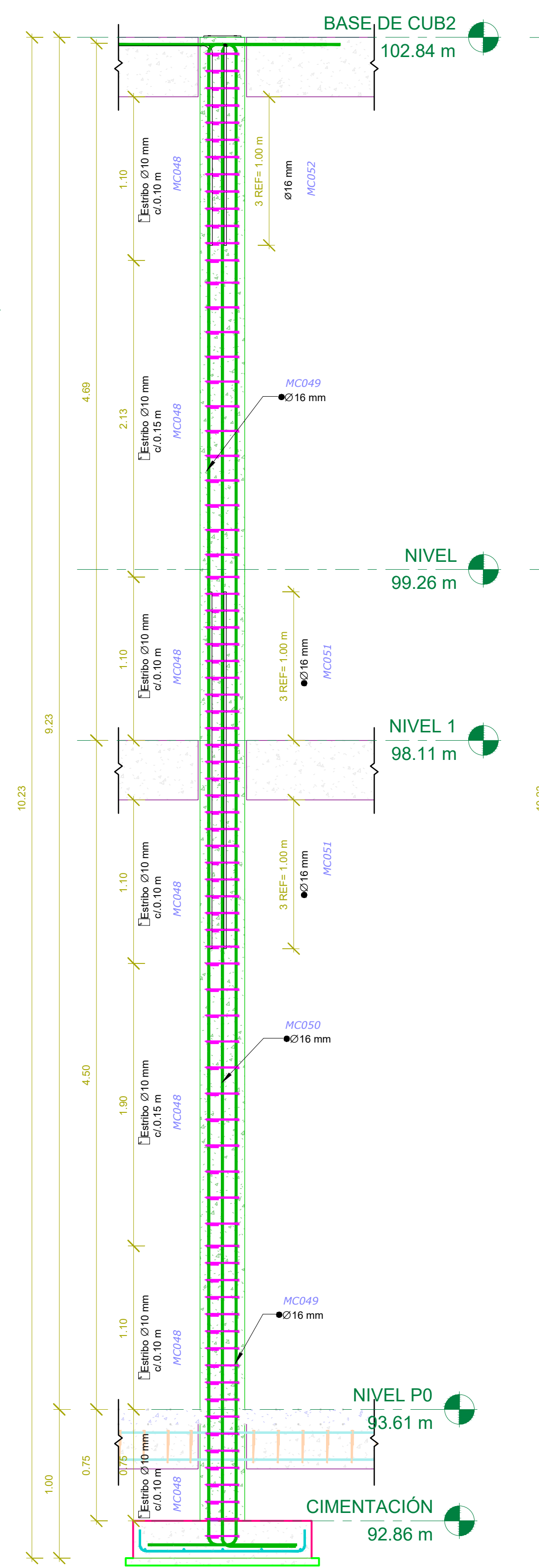


ALZADO DE COLUMNA CH1_A
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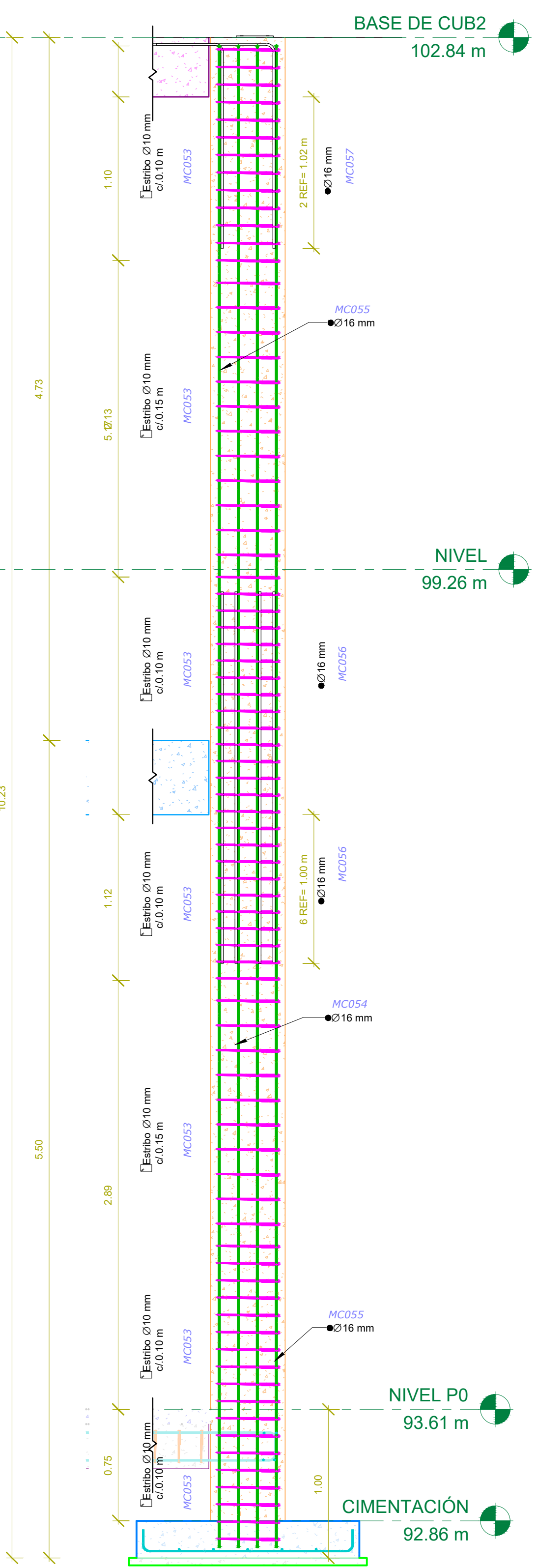


	COLUMNA CH1 A-B-C	COLUMNA CH2	COLUMNA CH3
NIVEL P0	<p>VER ALZADO</p>	<p>VER ALZADO</p>	<p>VER ALZADO</p>
NIVEL LOSA 1	<p>VER ALZADO</p>	<p>VER ALZADO</p>	<p>VER ALZADO</p>
BASE CUB2	<p>VER ALZADO</p>	<p>VER ALZADO</p>	<p>VER ALZADO</p>

VOLUMEN DE HORMIGÓN - COLUMNAS					
Recuento	Código	Tipo	Longitud	Volumen	Materiales
12	CH1_A	CH1_A 0.30x0.30x4.73	9.88	10.78	Hormigón 280kg/m ³
10	CH1_B	CH1_B 0.30x0.30x4.73	9.88	10.78	Hormigón 280kg/m ³
2	CH2	CH2 0.30x0.40x4.73	0.75	0.16	Hormigón 280kg/m ³
16	CH3	CH3 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH4	CH4 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH5	CH5 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH6	CH6 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH7	CH7 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH8	CH8 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH9	CH9 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH10	CH10 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH11	CH11 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH12	CH12 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH13	CH13 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH14	CH14 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH15	CH15 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH16	CH16 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH17	CH17 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH18	CH18 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH19	CH19 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH20	CH20 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH21	CH21 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH22	CH22 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH23	CH23 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH24	CH24 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH25	CH25 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH26	CH26 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH27	CH27 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH28	CH28 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH29	CH29 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH30	CH30 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH31	CH31 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH32	CH32 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH33	CH33 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH34	CH34 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH35	CH35 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH36	CH36 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH37	CH37 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH38	CH38 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH39	CH39 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH40	CH40 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH41	CH41 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH42	CH42 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH43	CH43 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH44	CH44 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH45	CH45 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH46	CH46 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH47	CH47 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH48	CH48 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH49	CH49 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH50	CH50 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH51	CH51 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH52	CH52 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH53	CH53 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH54	CH54 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH55	CH55 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH56	CH56 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH57	CH57 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH58	CH58 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH59	CH59 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH60	CH60 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH61	CH61 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH62	CH62 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH63	CH63 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH64	CH64 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH65	CH65 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH66	CH66 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH67	CH67 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH68	CH68 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH69	CH69 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH70	CH70 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH71	CH71 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH72	CH72 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
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4	CH74	CH74 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
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4	CH77	CH77 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH78	CH78 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH79	CH79 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH80	CH80 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH81	CH81 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH82	CH82 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
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4	CH84	CH84 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH85	CH85 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH86	CH86 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH87	CH87 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH88	CH88 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
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4	CH92	CH92 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
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4	CH95	CH95 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH96	CH96 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH97	CH97 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH98	CH98 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH99	CH99 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³
4	CH100	CH100 0.30x0.40x4.73	9.88	10.78	Hormigón 280kg/m ³









ALZADO DE COLUMNA CH2
1:25



ALZADO DE COLUMNA CH3
1:25

PLANILLA DE ACERO COLUMNAS											
Imagen de forma	Ubicación	Tipo	Marca	Cant.	Díametro de barra (mm)	Longitud de barra (m)	Longitud Total de Barra (m)	Peso Total (kg)	Peso Total (kg)	Peso Total (kg)	Peso Total (kg)
	COLUMNA CH1_A	ESTRIBO	MC039	964	10	220	220	129	129	1.04	1021.20
	COLUMNA CH1_B	ESTRIBO	MC040	510	10	220	220	129	129	1.04	529.28
	COLUMNA CH1_A	ACERO VERTICAL	MC041	2	16	800	10122	300	0	11.14	22.28
	COLUMNA CH1_B	ACERO VERTICAL	MC042	63	16	800	10122	500	0	11.34	714.53
	COLUMNA CH1_A	ACERO VERTICAL	MC043	25	16	800	10122	400	0	11.24	281.04
	COLUMNA CH1_B	ACERO VERTICAL	MC044	6	16	200	10122	500	0	10.74	64.45
	COLUMNA CH1_B	ACERO VERTICAL	MC045	3	16	200	8543	400	0	7.06	21.19
	COLUMNA CH1_B	ACERO VERTICAL	MC046	57	16	200	8543	485	0	7.15	407.41
	COLUMNA CH1_B	ACERO VERTICAL	MC047	20	16	130	8542	400	0	8.99	139.85
	COLUMNA CH2	ESTRIBO	MC048	1248	10	320	220	129	129	1.24	1544.79
	COLUMNA CH2	ACERO VERTICAL	MC049	90	16	800	10109	800	0	11.43	1028.61
	COLUMNA CH2	ACERO VERTICAL	MC049	3	16	800	10109	650	0	11.48	34.44
	COLUMNA CH2	ACERO VERTICAL	MC050	34	16	800	10119	500	0	11.34	385.52
	COLUMNA CH2	ACERO VERTICAL	MC050	2	16	800	10119	550	0	11.39	22.78
	COLUMNA CH2	ACERO VERTICAL	MC051	48	16	2400				2.40	115.20

PLANILLA DE ACERO COLUMNAS												
Imagen de forma	Ubicación	Tipo	Marca	Cant.	Díametro de barra (mm)	L (m)	B (mm)	D (mm)	Longitud de barra (m)	Longitud Total de Barra (m)	Peso Total (kg)	
	COLUMNA CH2	ACERO VERTICAL REF	MC052	47	16	800	1359	2.14	100.50	158.68	276.67	
	COLUMNA CH3	ESTRIBO	MC053	312	10	420	220	129	1.44	448.60	326.43	
	COLUMNA CH3	ACERO VERTICAL REF	MC054	52	16	800	10112	700	0	11.53	369.02	582.84
	COLUMNA CH3	ACERO VERTICAL REF	MC055	8	16	800	10112	600	0	11.53	91.46	144.40
	COLUMNA CH3	ACERO VERTICAL REF	MC056	24	16	2500			2.50	60.00	94.73	
	COLUMNA CH3	ACERO VERTICAL REF	MC057	8	16	800	1380		2.56	17.28	27.28	