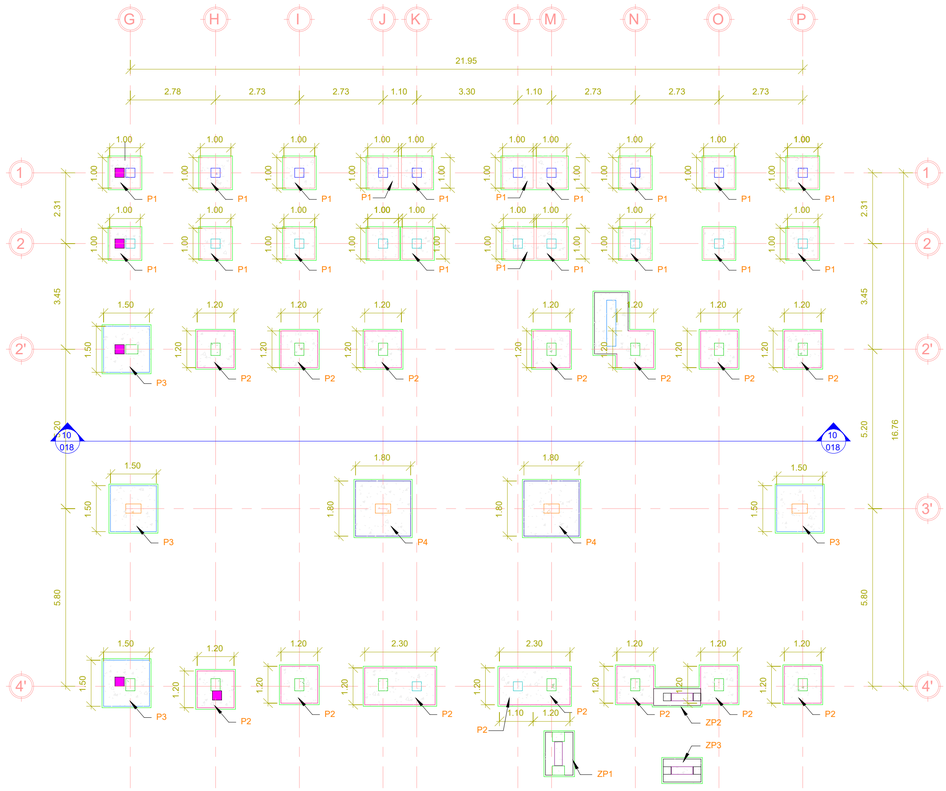

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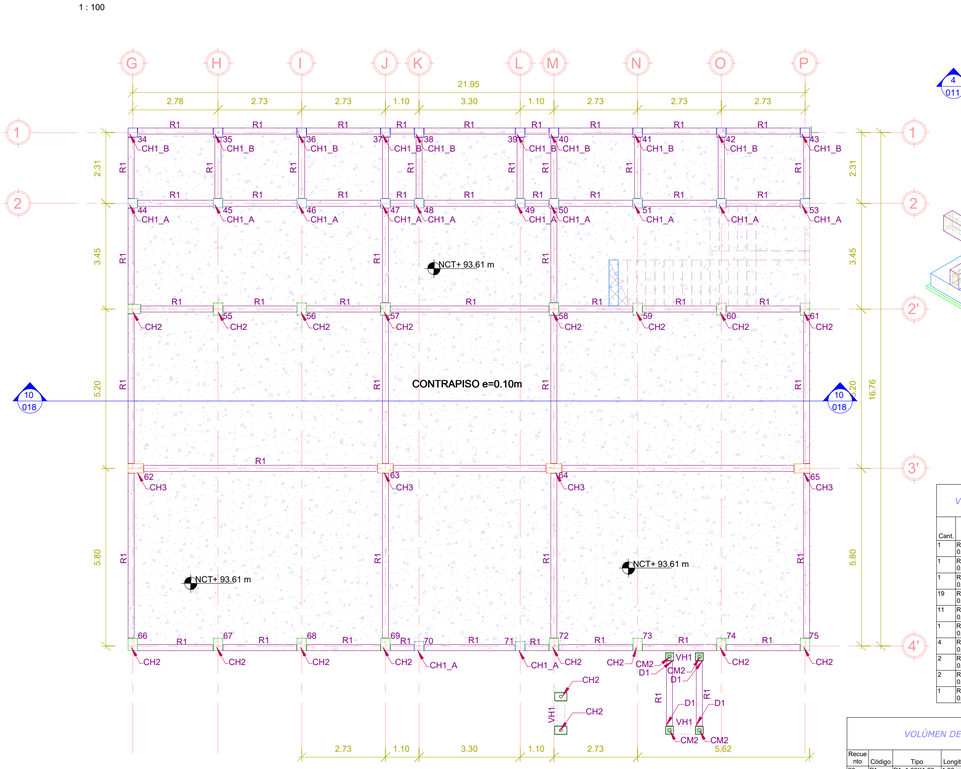

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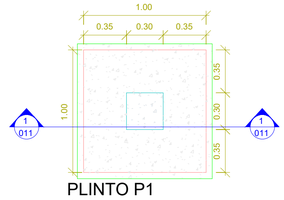

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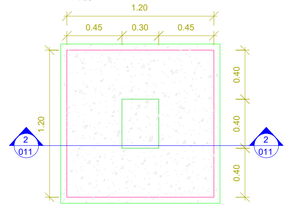

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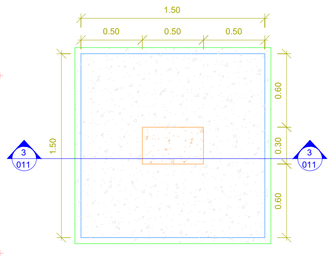

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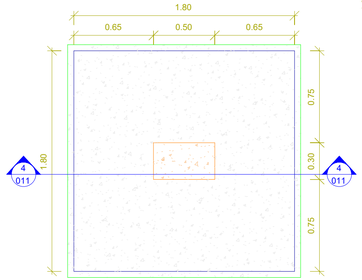

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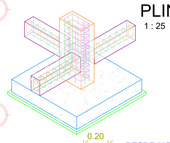
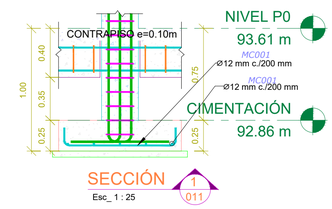
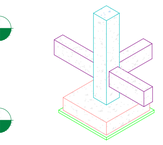


PLINTO P4
1 : 25

RIOSTRA R1
1 : 25





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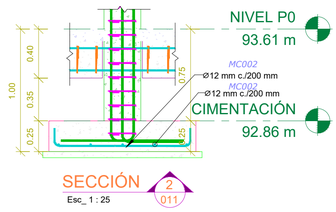

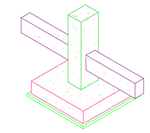

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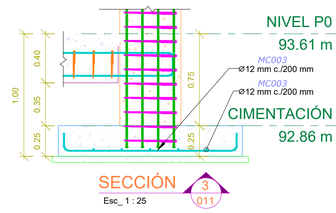

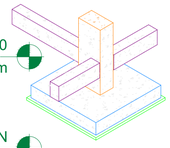

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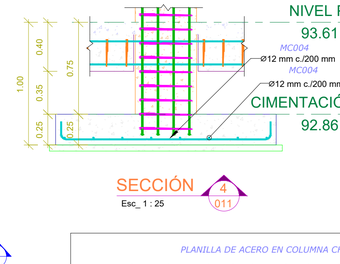
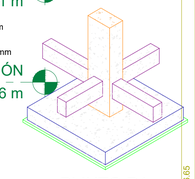
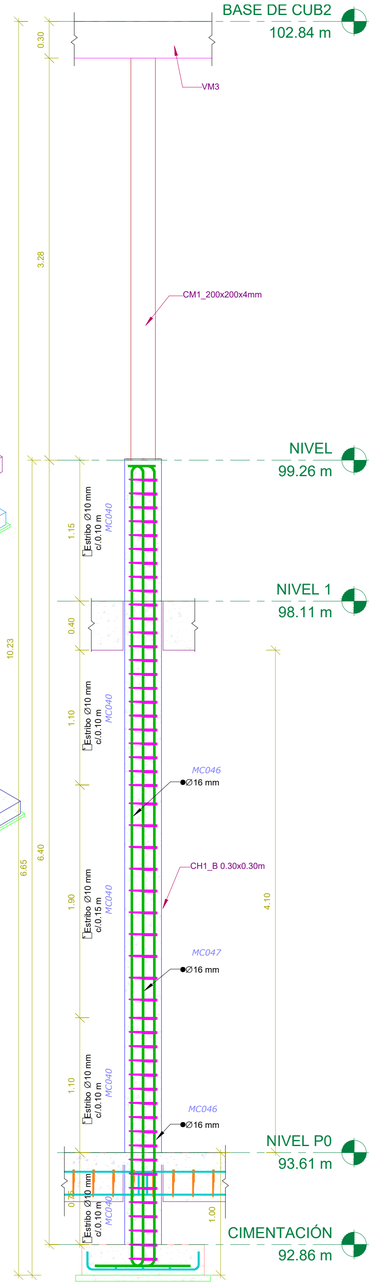




PLINTO P4



ALZADO DE COLUMNA CH1_B
1 : 25

PLANILLA DE ACERO EN COLUMNA CH1_B

Imagen de forma	Ubicación	Tipo	Marca	Cant.	Diámetro de barra (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Longitud de barra (m)	Longitud Total de Barra (m)	Peso Total (kg)
	COLUMNA CH1_B	ESTRIBO	MC040	510	10	220	220		129	129		1.04	529.28	326.43
	COLUMNA CH1_B	ACERO VERTICAL	MC045	3	16	200	6543		400	0		7.06	21.19	33.45
	COLUMNA CH1_B	ACERO VERTICAL	MC046	57	16	200	6543		485	0		7.15	407.41	643.25
	COLUMNA CH1_B	ACERO VERTICAL	MC047	20	16	130	6542		400	0		6.99	139.85	220.81
				590									1097.73	1223.94

PLANILLA DE ACERO EN CIMENTACIÓN

Imagen de forma	Ubicación	Tipo	Marca	Cantidad	Diámetro de barra (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Longitud de barra (m)	Longitud Total de Barra (m)	Peso Total (kg)
	PLINTO P1	ACERO HORIZONTAL	MC001	200	12	150	920	150	0	0	0	1.16	232.00	206.04
	PLINTO P2	ACERO HORIZONTAL	MC002	191	12	150	1120	150	0	0	0	1.36	259.76	230.70
	PLINTO P3	ACERO HORIZONTAL	MC003	56	12	150	1420	150	0	0	0	1.66	92.96	82.56
	PLINTO P4	ACERO HORIZONTAL	MC004	34	12	150	1720	150	0	0	0	1.96	66.64	59.18
	RIOSTRA	ESTRIBO	MC005	1084	8	220	120	100	100			0.78	842.81	332.67
	RIOSTRA	ACERO HORIZONTAL	MC006	10	12	150	4850					4.98	49.84	44.27
	RIOSTRA	ACERO HORIZONTAL	MC007	10	12	600	57	10350	40	600	40	11.66	116.63	103.58
	RIOSTRA	ACERO HORIZONTAL	MC008	10	12	150	6850					6.98	69.85	62.03
	RIOSTRA	ACERO HORIZONTAL	MC009	10	12	10269	46	600	40	150	10892	11.04	110.35	98.01
	RIOSTRA	ACERO HORIZONTAL	MC010	10	12	150	11850					11.98	119.85	106.44
	RIOSTRA	ACERO HORIZONTAL	MC011	24	12	150	2460	150	0	0	0	2.70	64.80	57.55
	RIOSTRA	ACERO HORIZONTAL	MC012	8	12	150	2520	150	0	0	0	2.76	22.08	19.61
	RIOSTRA	ACERO HORIZONTAL	MC013	14	12	150	9790					9.92	138.94	123.40
	RIOSTRA	ACERO HORIZONTAL	MC014	6	12	7088	46	600	40	150	7711	7.85	47.13	41.85
	RIOSTRA	ACERO HORIZONTAL	MC015	8	12	7150	46	600	40	150	7773	7.92	63.33	56.24
	ZAPATA1	ACERO HORIZONTAL	MC016	9	12	200	820	200	0	0	0	1.16	10.44	9.27
	ZAPATA1	ACERO HORIZONTAL	MC017	5	12	200	1320	200	0	0	0	1.66	8.30	7.37
	ZAPATA2	ACERO HORIZONTAL	MC018	9	12	200	470	200	0	0	0	0.81	7.29	6.47
	ZAPATA2	ACERO HORIZONTAL	MC019	3	12	200	1669	200	0	0	0	2.01	6.03	5.35
	ZAPATA3	ACERO HORIZONTAL	MC020	7	12	200	670	200	0	0	0	1.01	7.07	6.28
	ZAPATA3	ACERO HORIZONTAL	MC021	4	12	200	1145	200	0	0	0	1.48	5.94	5.28
	ZAPATA 4	ACERO HORIZONTAL	MC022	8	12	170	1020	170	0	0	0	1.30	10.40	9.24
	ZAPATA 4	ACERO HORIZONTAL	MC023	6	12	170	1920	170	0	0	0	2.20	13.20	11.72
	MURO	ACERO HORIZONTAL	MC024	10	12	218	1420	218	0	0	0	1.80	17.97	15.96
	MURO	ACERO VERTICAL	MC025	9	12	981	599					1.57	14.09	12.51
	MURO	ACERO VERTICAL	MC026	9	12	1106	918	600	950	566	0	2.59	23.35	20.74
	CH2-CIMENT	ESTRIBO	MC027	14	10	320	220	129	129			1.24	17.33	10.69
	CH2-CIMENT	ACERO VERTICAL	MC028	6	16	200	894	600	0	0	0	1.61	9.68	15.29
	CH2-CIMENT	ACERO VERTICAL	MC029	4	16	100	894	600	0	0	0	1.51	6.05	9.56
	CH2-CIMENT	ACERO VERTICAL	MC030	6	16	200	894	200	0	0	0	1.21	7.28	11.50
	VH1-CIMENT	ESTRIBO	MC031	13	10	320	170	129	129			1.14	14.79	9.12
	VH1-CIMENT	ACERO HORIZONTAL	MC032	4	12	200	1288	200	0	0	0	1.63	6.51	5.78
	VH1-CIMENT	GUÍA	MC033	2	10	199	1286	199	0	0	0	1.63	3.27	2.02
	VH1-CIMENT	ACERO HORIZONTAL	MC034	8	12	200	1089	200	0	0	0	1.43	11.43	10.15
	VH1-CIMENT	GUÍA	MC035	4	10	199	1087	199	0	0	0	1.43	5.74	3.54
	DADO 1	ESTRIBO	MC036	28	10	170	170	129	129			0.84	23.46	14.47
	DADO 1	ACERO VERTICAL	MC037	24	16	160	894	300	0	0	0	1.27	30.56	48.26
	DADO 1	ACERO VERTICAL	MC038	9	16	100	894	300	0	0	0	1.21	10.92	17.24
				1876									2568.07	1891.94

VOLÚMEN DE HORMIGÓN - REPLANTILLO

Cant.	Tipo	Longitud	Anchura	Espesor	Volumen	Material estructural
1	REPLANTILLO 0.05m	0.65 m	1.63 m	0.05 m	0.05 m³	Hormigón 140kg/m2
1	REPLANTILLO 0.05m	0.85 m	1.32 m	0.05 m	0.06 m³	Hormigón 140kg/m2
1	REPLANTILLO 0.05m	1.10 m	1.08 m	0.05 m	0.06 m³	Hormigón 140kg/m2
19	REPLANTILLO 0.05m	1.10 m	1.10 m	0.05 m	1.15 m³	Hormigón 140kg/m2
11	REPLANTILLO 0.05m	1.30 m	1.30 m	0.05 m	0.93 m³	Hormigón 140kg/m2
1	REPLANTILLO 0.05m	1.50 m	1.00 m	0.05 m	0.08 m³	Hormigón 140kg/m2
4	REPLANTILLO 0.05m	1.60 m	1.60 m	0.05 m	0.51 m³	Hormigón 140kg/m2
2	REPLANTILLO 0.05m	1.30 m	2.40 m	0.05 m	0.31 m³	Hormigón 140kg/m2
2	REPLANTILLO 0.05m	1.90 m	1.90 m	0.05 m	0.36 m³	Hormigón 140kg/m2
1	REPLANTILLO 0.05m	2.55 m	2.03 m	0.05 m	0.19 m³	Hormigón 140kg/m2
					3.69 m³	

VOLÚMEN DE HORMIGÓN - CIMENTACIÓN

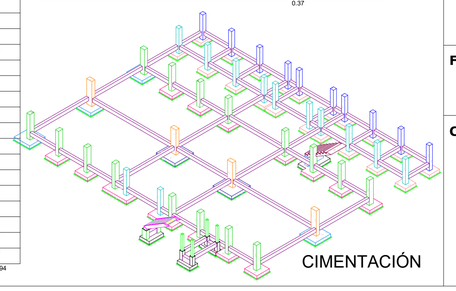
Recuento	Código	Tipo	Longitud	Anchura	Espesor	Volumen	Material estructural
20	P1	P1_1.00X1.00	1.00 m	1.00 m	0.25 m	5.00 m³	Hormigón 280kg/m2
2	P2	P2_1.20x1.20m	1.20 m	1.20 m	0.25 m	0.66 m³	Hormigón 280kg/m2
14	P2	P2_1.20x1.20m	1.20 m	1.20 m	0.25 m	5.04 m³	Hormigón 280kg/m2
4	P3	P3_1.50X1.50	1.50 m	1.50 m	0.25 m	2.25 m³	Hormigón 280kg/m2
2	P4	P4_1.80X1.80	1.80 m	1.80 m	0.25 m	1.62 m³	Hormigón 280kg/m2
1	ZP1	ZAPATA 1	1.40 m	0.90 m	0.25 m	0.32 m³	Concrete, Cast In Situ
1	ZP1	ZAPATA 4	2.00 m	1.10 m	0.25 m	0.48 m³	Hormigón 280kg/m2
1	ZP2	ZAPATA 2	0.55 m	1.53 m	0.25 m	0.21 m³	Concrete, Cast In Situ
1	ZP3	ZAPATA 3	0.75 m	1.22 m	0.25 m	0.23 m³	Concrete, Cast In Situ
						15.81 m³	

VOLÚMEN DE HORMIGÓN - RIOSTRAS & VH1 CIMENT

Código	Tipo	Longitud	Volumen	Material estructural
R1	R1_0.20x0.30m	166.87 m	10.01 m³	Hormigón 280kg/m2
VH1	VH1_0.40x0.25	2.17 m	0.22 m³	Hormigón 280kg/m2
		169.04 m	10.23 m³	

VOLÚMEN DE HORMIGÓN - COLUMNAS CIMENT

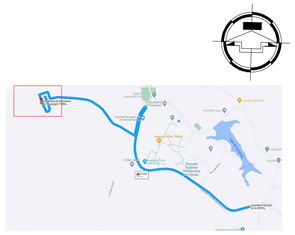
Recuento	Marca	Código	Tipo	Longitud	Volumen	Material estructural
2	CH2_CIMENT	CH2	CH2 0.30x0.40m	0.75	0.18	Hormigón 280kg/m2
4	D1	D1	D1_0.25x0.25m	0.75	0.19	Hormigón 280kg/m2
					0.37	



CIMENTACIÓN

BENEMERITO CUERPO DE BOMBEROS GUAYAQUIL

UBICACIÓN



JAIRO BERNARDO PARRALES PARRALES

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

CIMENTACIÓN

Empresa Consultora:

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

Responsable de Diseño:

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

Fecha:	Escala:
MARZO	Como se indica

Código:	Lámina:
E	012