

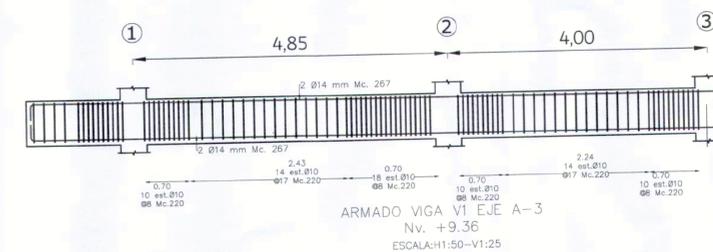
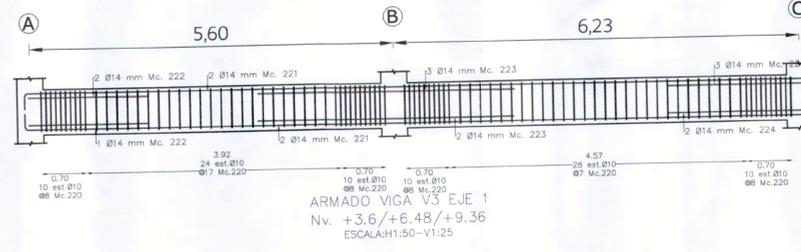
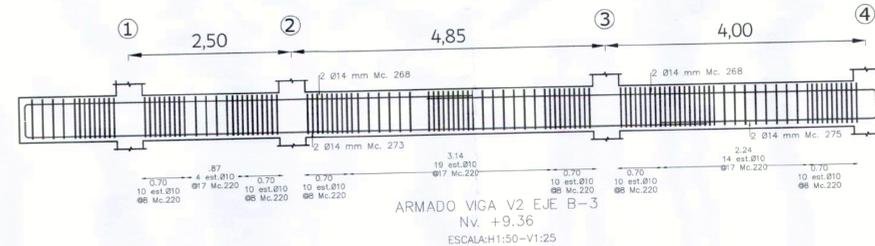
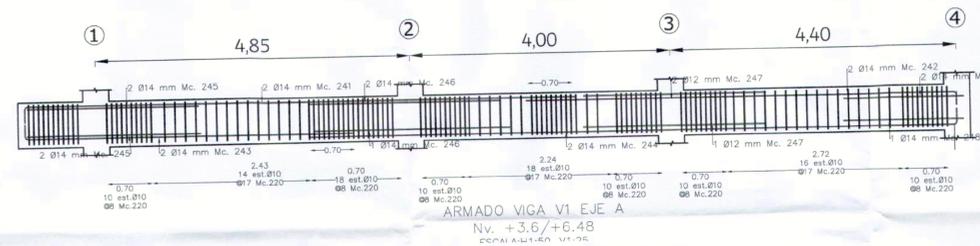
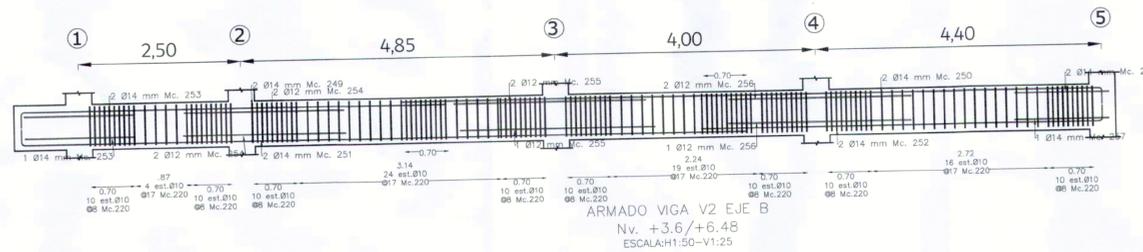
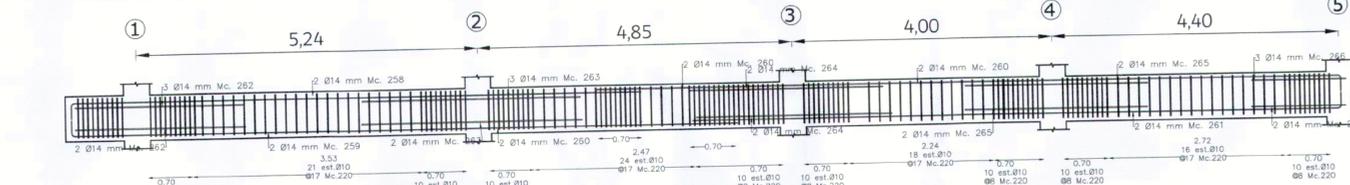
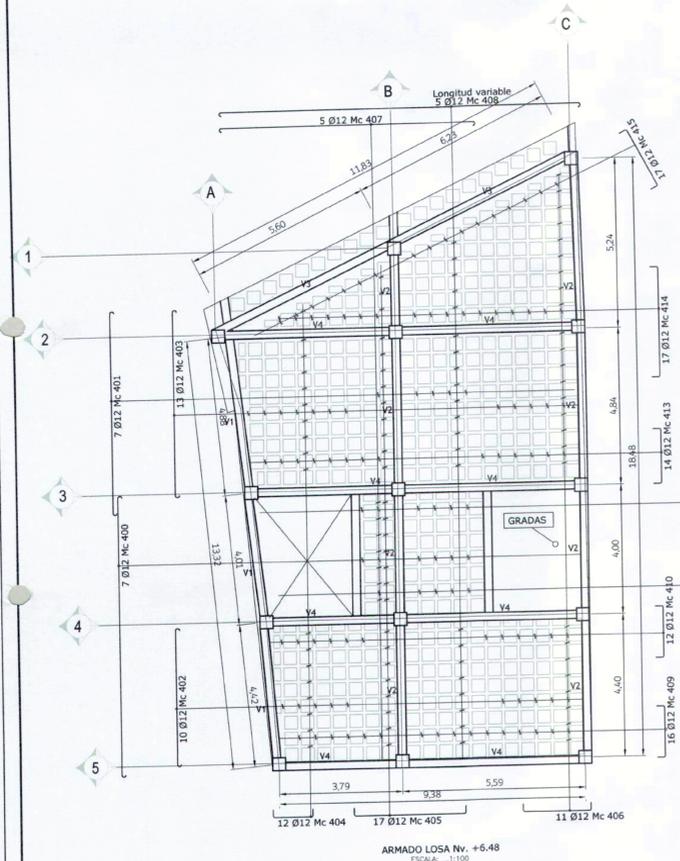
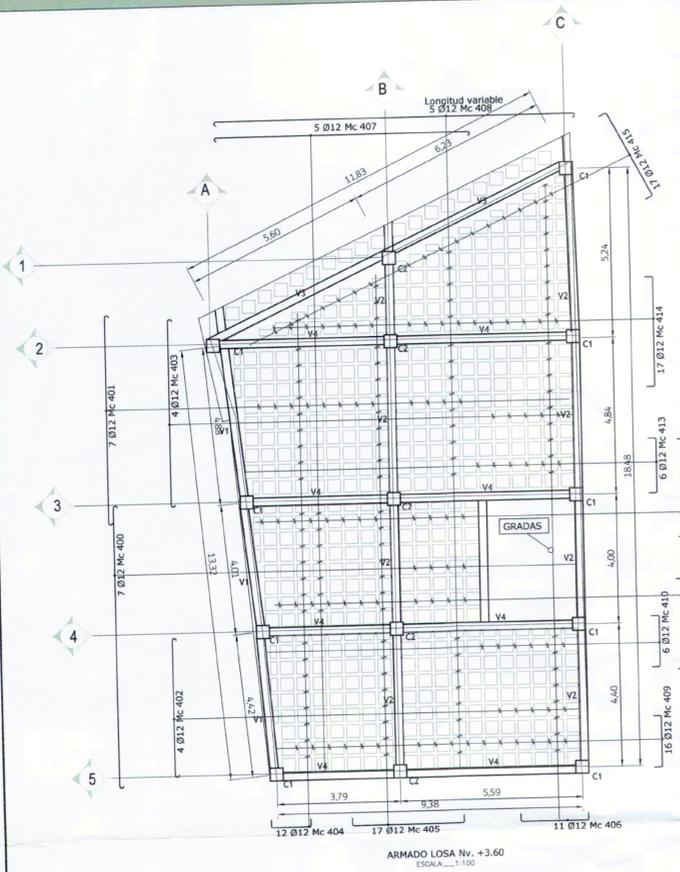


PLANOS ESTRUCTURALES Y MEMORIA TÉCNICA

SR. JOSÉ ANTONIO CABASCANGO MALES Y SRA.

MARZO DEL 2023

E.- PLANO ESTRUCTURAL - PROYECTO SUSTITUTIVO - VIVIENDA / LOCAL COMERCIAL



PLANILLA DE ACEROS												
Marca	TIPO	Ø (mm)	No.	DIMENSIONES (m)					LONG. Desar. (m)	LONG. TOTAL (m)	PESO (Kg)	Observ.
				a	b	c	d	e				
Vigas Nv. +6.48												
Mc 220	D	10	833	0.37	0.37			0.07	1.02	849.66	524.24 Kg	
Mc 221	C	14	4	11.8	0.2				12	48	57.86 Kg	EJE 1
Mc 222	I	14	3	1.85					3.85	5.55	6.70 Kg	EJE 1
Mc 223	I	14	5	3.95					2.05	10.25	12.38 Kg	EJE 1
Mc 224	C	14	4	10.75	0.2				11.15	44.6	53.88 Kg	EJE 2
Mc 225	C	14	3	1.05					1.05	4.96	5.98 Kg	EJE 2
Mc 227	I	14	3	1.5					3.5	10.5	12.68 Kg	EJE 2
Mc 228	I	14	3	1.85					10.75	48	57.94 Kg	EJE 3
Mc 229	C	14	4	10.35	0.2				11.5	45.5	54.64 Kg	EJE 3
Mc 230	I	14	3	1.5					3.4	10.2	12.32 Kg	EJE 3
Mc 231	I	14	3	1.4					1.85	5.55	6.70 Kg	EJE 3
Mc 232	I	14	3	1.85					10.3	41.3	49.77 Kg	EJE 4
Mc 233	C	14	4	9.9	0.2				11.4	2.8	3.38 Kg	EJE 4
Mc 234	I	14	2	1.4					3.25	6.5	7.85 Kg	EJE 4
Mc 235	I	14	2	3.25					1.8	5.4	6.52 Kg	EJE 4
Mc 236	I	14	3	1.8					0.95	9.8	48.08 Kg	EJE 5
Mc 237	C	14	4	9.55	0.2				1.25	3.75	4.53 Kg	EJE 5
Mc 238	I	14	3	1.25					3.15	9.45	11.42 Kg	EJE 5
Mc 239	I	14	3	3.15					8.63	17.26	20.85 Kg	EJE 5
Mc 240	I	14	5	1.8	0.2				6.8	13.6	16.43 Kg	EJE 5
Mc 241	L	14	2	6.6	0.2				5.2	10.4	12.58 Kg	EJE 5
Mc 242	L	14	2	5	0.2				4.7	11.4	13.59 Kg	EJE 5
Mc 243	L	14	2	5	0.2				20.1	20.2	24.40 Kg	EJE 5
Mc 244	L	14	2	3.9	0.2				2.65	10.6	12.80 Kg	EJE 5
Mc 245	I	14	4	1.85					2.95	8.85	7.86 Kg	EJE 5
Mc 246	I	14	3	2.95					2.8	8.4	7.46 Kg	EJE 5
Mc 247	I	12	3	2.8					1.5	4.5	5.44 Kg	EJE 5
Mc 248	I	14	3	1.5					11.3	22.6	27.30 Kg	EJE 5
Mc 249	L	14	2	6.5	0.2				10.95	21.9	26.40 Kg	EJE 5
Mc 250	L	14	2	11.3	0.2				6.3	12.6	15.21 Kg	EJE 5
Mc 251	L	14	2	10.75	0.2				1.55	4.65	5.62 Kg	EJE 5
Mc 252	L	14	2	6.1	0.2				2.45	7.35	6.53 Kg	EJE 5
Mc 253	I	14	3	1.55					3.95	8.85	7.86 Kg	EJE 5
Mc 254	I	12	3	2.45					2.8	8.4	7.46 Kg	EJE 5
Mc 255	I	12	3	2.95					1.45	4.35	5.25 Kg	EJE 5
Mc 256	I	14	3	1.45					10.4	20.8	25.13 Kg	EJE 5
Mc 257	L	14	2	8.7	0.2				11.6	23.2	28.03 Kg	EJE 5
Mc 259	L	14	2	10.2	0.2				10.15	20.3	24.59 Kg	EJE 5
Mc 260	L	14	2	11.4	0.2				2.6	13	15.70 Kg	EJE 5
Mc 261	L	14	2	9.95	0.2				3.35	16.75	20.23 Kg	EJE 5
Mc 262	I	14	5	2.6					2.95	11.8	14.25 Kg	EJE 5
Mc 263	I	14	5	3.35					2.8	11.2	13.53 Kg	EJE 5
Mc 264	I	14	4	2.95					1.45	7.25	8.76 Kg	EJE 5
Mc 265	I	14	5	1.45								
Losa Nv. +6.48												
Mc 400	G	12	7	8.70					0.12	8.84	62.58	55.57 Kg
Mc 401	G	12	7	8.40					0.12	8.64	60.48	53.71 Kg
Mc 402	G	12	7	4.30					0.12	4.54	45.40	40.32 Kg
Mc 403	G	12	13	10.35					0.12	10.59	137.67	122.75 Kg
Mc 404	C	12	12	11.07					0.20	11.47	137.64	122.72 Kg
Mc 405	C	12	17	3.20					0.20	3.60	61.20	54.35 Kg
Mc 406	C	12	11	1.85					0.20	2.25	24.75	21.98 Kg
Mc 407	G	12	5	3.45					0.12	3.69	24.45	16.38 Kg
Mc 408	G	12	16	1.50					0.12	2.34	11.70	10.39 Kg
Mc 409	C	12	16	1.50					0.12	1.74	27.84	24.72 Kg
Mc 410	C	12	13	1.50					0.12	3.06	20.38	18.54 Kg
Mc 411	C	12	13	1.50					0.12	3.04	35.20	31.50 Kg
Mc 412	C	12	5	2.80					0.12	3.19	35.95	31.55 Kg
Mc 413	C	12	14	1.45					0.12	1.69	33.66	21.05 Kg
Mc 414	C	12	17	1.00					0.12	3.24	55.08	48.91 Kg
Mc 415	C	12	17	1.20					0.12	1.44	34.48	21.74 Kg
Resumen de Materiales												
Ø (mm)	8	10	12	14	16	18	20	22	25	28	32	
W (kg/m)	0.395	0.617	0.888	1.208	1.578	2	2.466	2.984	3.853	4.834	6.31	
Long	0	849.66	775.95	697.31	0	0	0	0	0	0	0	
Peso (kg)	0	524.24022	689.05	768.87048	0	0	0	0	0	0	0	
												TOTAL= 1983.16 Kg



KATHERINE BETANCURT
0998095971
INGENIERA CIVIL

PROYECTO: RESIDENCIA DE LOS SRES.
JOSE ANTONIO CABASCANGO MALES
MARÍA REBECA SANTELLAN LEMA

PROPIETARIOS:
SRA. MARIA REBECA SANTELLAN LEMA
C.I. 100143077-4
SR. CABASCANGO MALES JOSE ANTONIO
C.I. 100131799-7

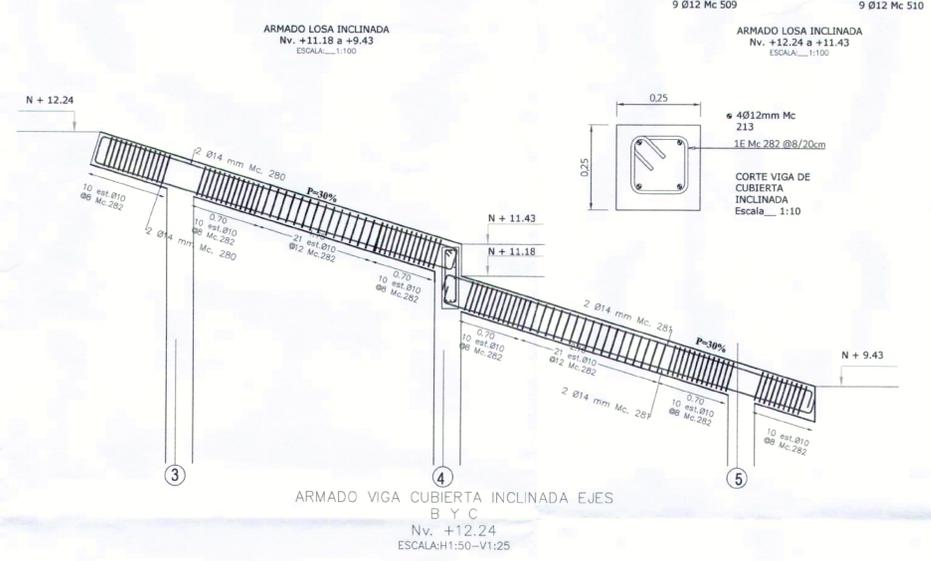
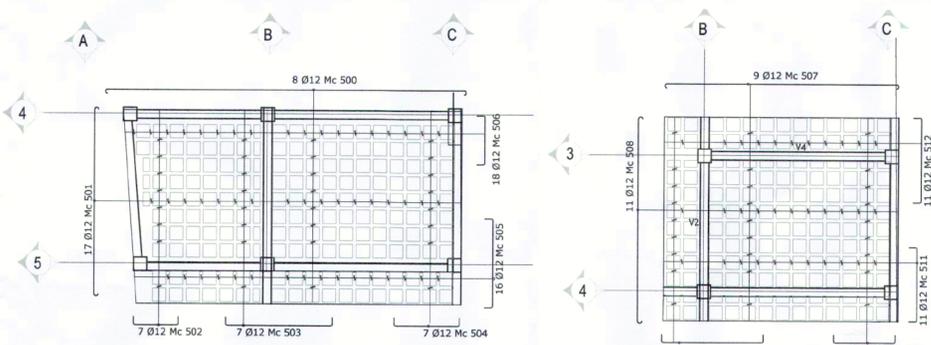
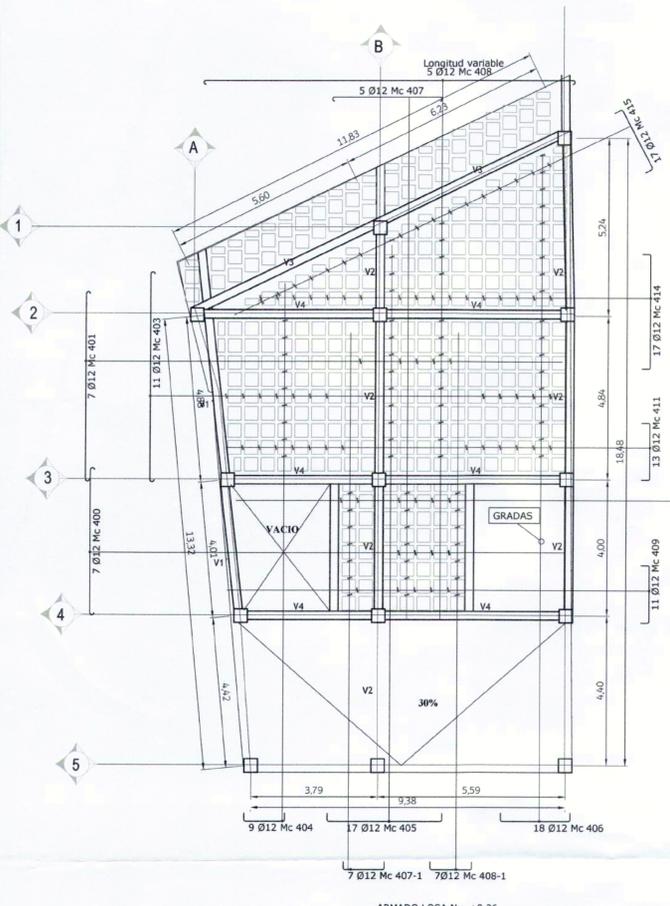
PROYECTISTA:
ING. KATHERINE BETANCURT
REG. 1001-2018-1936447

UBICACIÓN: BARRIO TEJAR - SAN JUAN - CENTRO QUITO
CLAVE CATASTRAL: 401022012
CONTENIDO: PLANTA DE CUBIERTAS, CORTES DE VIGAS
ESCALA: INDICADAS
FECHA: MARZO / 2023
LÁMINA: E2/3

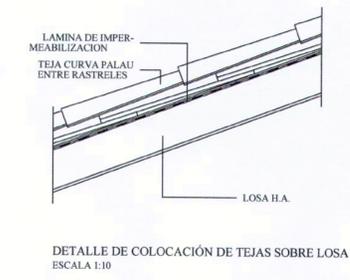
No. de Predio: 28663

SELLOS:

E.- PLANO ESTRUCTURAL - PROYECTO SUSTITUTIVO - VIVIENDA / LOCAL COMERCIAL



PLANILLA DE ACEROS												
DIMENSIONES (m)												
Marca	TIPO	Ø (mm)	No.	a	b	c	d	e	LONG. Desar. (m)	LONG. TOTAL (m)	PESO (Kg)	Observ.
Mc 220	O	10	833	0.27	0.17				1.02	849.66	524.24	EJE 1
Mc 221	C	14	4	11.8	0.2				12	48	57.88	EJE 1
Mc 222	I	14	3	1.85					1.85	5.55	6.70	EJE 1
Mc 223	I	14	5	3.95					3.95	19.75	23.86	EJE 1
Mc 224	I	14	5	2.05					2.05	10.25	12.38	EJE 1
Mc 225	C	14	4	10.75	0.2				11.15	44.6	53.88	EJE 1
Mc 226	I	14	3	1.85					1.85	4.95	5.98	EJE 1
Mc 227	I	14	3	3.5					3.5	10.5	12.68	EJE 1
Mc 228	I	14	3	1.85					1.85	5.55	6.70	EJE 1
Mc 229	C	14	4	10.85	0.2				10.75	49	51.94	EJE 2
Mc 230	I	14	3	1.5					1.5	4.5	5.44	EJE 2
Mc 231	I	14	3	3.4					3.4	10.2	12.32	EJE 2
Mc 232	I	14	3	1.85					1.85	5.55	6.70	EJE 2
Mc 233	C	14	4	9.9	0.2				10.3	41.2	49.77	EJE 2
Mc 234	I	14	2	1.4					1.4	2.8	3.38	EJE 3
Mc 235	I	14	2	3.25					3.25	6.5	7.85	EJE 3
Mc 236	C	14	3	1.8					1.8	5.4	6.52	EJE 3
Mc 237	C	14	4	9.1	0.2				9.5	38	45.50	EJE 3
Mc 238	C	14	4	11.96	0.2				11.96	47.84	57.79	EJE 3
Mc 239	L	14	2	7.8	0.2				8	16	19.33	EJE 3
Mc 240	L	14	2	16.3	0.2				11.5	23	27.78	EJE 3
Mc 271	L	14	2	6.0	0.2				7.1	14.2	17.25	EJE 3
Mc 272	L	14	2	3.45	0.2				3.65	7.3	8.82	EJE 3
Losa Nv. +9.36												
Mc 400	G	12	7	7.00					0.12	7.24	50.68	L VARIABLE
Mc 401	G	12	7	5.30					0.12	5.54	38.78	L VARIABLE
Mc 403	O	12	11	7.30					0.12	7.54	62.94	L VARIABLE
Mc 404	O	12	9	1.50					0.20	1.50	17.80	L VARIABLE
Mc 405	C	12	13	3.20					0.20	3.60	46.80	L VARIABLE
Mc 406	C	12	18	1.85					0.20	2.25	40.50	L VARIABLE
Mc 407	O	12	14	10.60					0.12	10.84	55.76	L VARIABLE
Mc 408	G	12	7	4.25					0.12	4.49	31.43	L VARIABLE
Mc 407-1	C	12	7	1.35					0.12	1.59	11.13	L VARIABLE
Mc 408-1	C	12	7	1.35					0.12	1.59	11.13	L VARIABLE
Mc 409	C	12	5	1.35					0.12	1.59	7.95	L VARIABLE
Mc 411	C	12	13	1.60					0.12	1.84	23.82	L VARIABLE
Mc 412	C	12	5	2.95					0.12	3.19	15.95	L VARIABLE
Mc 414	C	12	17	3.00					0.12	3.24	55.08	L VARIABLE
Mc 415	C	12	17	0.90					0.12	1.14	19.38	L VARIABLE
Losa Nv. +12.24												
Ø (mm)	B	10	12	14	16	18	20	22	25	28	32	
W (mm)	0.395	0.617	0.888	1.208	1.578	2	2.466	2.884	3.553	4.834	6.31	
L (m)	0	849.66	604.53	414.64	0	0	0	0	0	0	0	
PESO (Kg)	0	524.24022	536.82	500.88512	0	0	0	0	0	0	0	
TOTAL: 1561.99 Kg												



PLANILLA DE ACEROS												
DIMENSIONES (m)												
Marca	TIPO	Ø (mm)	No.	a	b	c	d	e	LONG. Desar. (m)	LONG. TOTAL (m)	PESO (Kg)	Observ.
Mc 229	C	14	4	10.35	0.2				10.75	48	51.94	EJE 3
Mc 233	C	14	4	9.9	0.2				10.3	41.2	49.77	EJE 3
Mc 237	C	14	4	9.95	0.2				10.35	39.8	48.08	EJE 3
Mc 280	C	14	4	5.6	0.2				6	24	28.99	EJE 3
Mc 281	C	14	4	5.75	0.2				6.15	24.6	29.72	EJE 3
Mc 282	O	10	2	0.17	0.17				0.07	0.82	1.64	L VARIABLE
Losa Nv. +12.24												
Mc 500	G	12	8	9.90					0.12	10.14	81.12	L VARIABLE
Mc 501	G	12	17	5.55					0.12	5.79	98.43	L VARIABLE
Mc 502	C	12	7	1.35					0.12	1.59	11.13	L VARIABLE
Mc 503	C	12	7	3.20					0.12	3.44	24.08	L VARIABLE
Mc 504	C	12	7	1.95					0.20	2.35	18.45	L VARIABLE
Mc 505	C	12	16	2.63					0.20	3.03	48.48	L VARIABLE
Mc 506	C	12	18	1.45					0.20	1.85	33.30	L VARIABLE
Mc 507	O	12	9	7.00					0.12	7.24	50.16	L VARIABLE
Mc 508	G	12	11	6.10					0.12	6.34	89.74	L VARIABLE
Mc 509	C	12	9	3.05					0.12	3.29	29.61	L VARIABLE
Mc 510	C	12	9	1.85					0.12	2.09	18.81	L VARIABLE
Mc 511	C	12	11	2.20					0.12	2.44	26.84	L VARIABLE
Mc 512	C	12	11	2.50					0.12	2.74	30.14	L VARIABLE
Losa Nv. +12.24												
Ø (mm)	B	10	12	14	16	18	20	22	25	28	32	
W (mm)	0.395	0.617	0.888	1.208	1.578	2	2.466	2.884	3.553	4.834	6.31	
L (m)	0	1.64	553.29	172.6	0	0	0	0	0	0	0	
PESO (Kg)	0	1.01188	491.32	208.5008	0	0	0	0	0	0	0	
TOTAL: 706.83 Kg												



KATHERINE BETANCURT
0998095971
INGENIERA CIVIL

PROYECTO: RESIDENCIA DE LOS SRES.
JOSE ANTONIO CABASCANGO MALES
MARÍA REBECA SANTELLAN LEMA

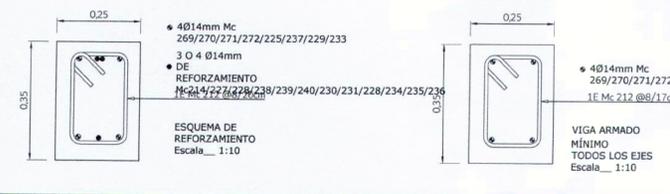
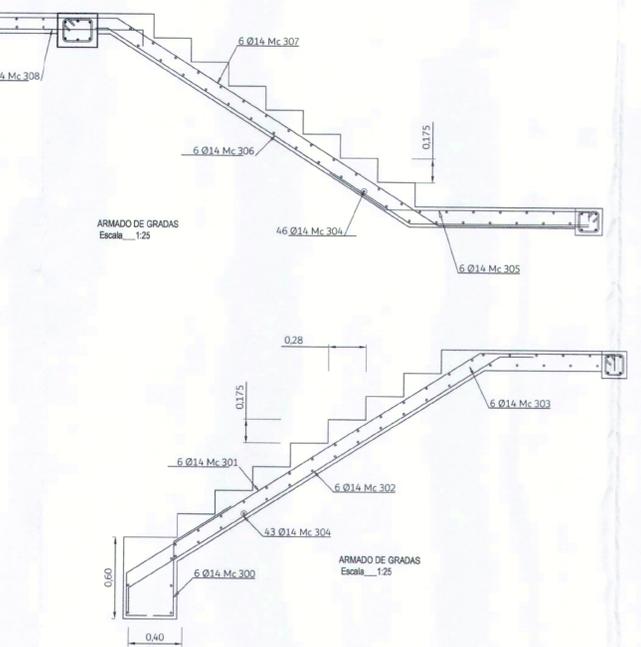
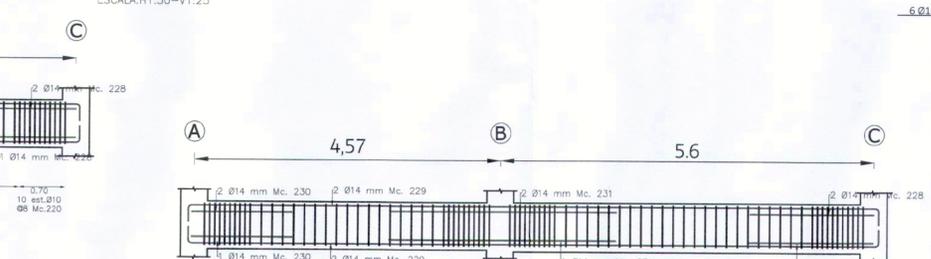
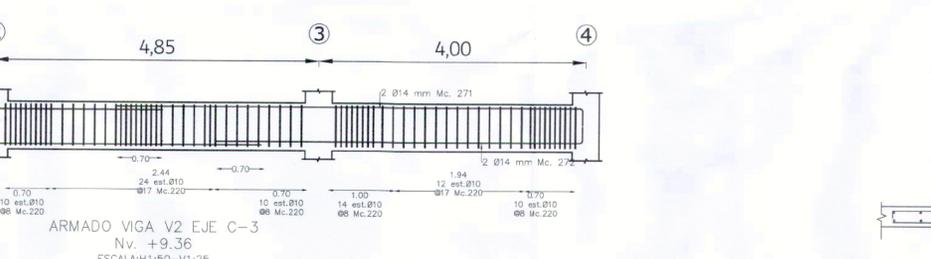
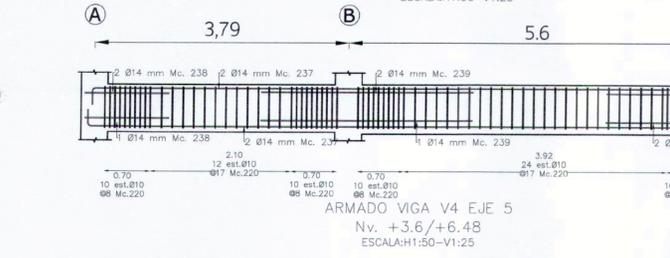
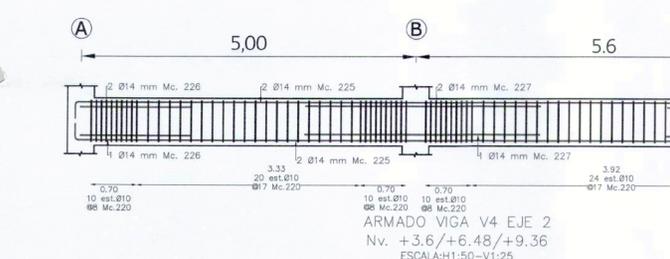
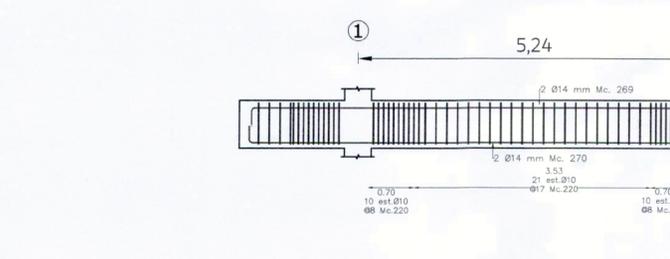
PROPIETARIOS:
SRA. MARÍA REBECA SANTELLAN LEMA
SR. CABASCANGO MALES JOSÉ ANTONIO

PROYECTISTA:
ING. KATHERINE BETANCURT
REG. 1001-2018-1936447

UBICACIÓN: BARRIO TEJAR - SAN JUAN - CENTRO QUITO
CONTENIDO: PLANTA DE TAPAGRADAS, CORTES DE VIGAS

CLAVE CATASTRAL: 4010222012
ESCALA: INDICADAS
LÁMINA: E3/3
FECHA: MARZO / 2023

No. de Predio: 28663



SELOS:

EL PRESENTE PROYECTO ARQUITECTÓNICO ES RESPONSABILIDAD DEL PROPIETARIO Y PROFESIONAL FIRMANTE. pág. 88