LOCALIZACION	PARCIAL	ELEMENTOS			P. PARCIAL	VARIOS	PESO	TOTAL	LOCALIZACION
		LARGO	PESO	CANT.					
0	7	3.45	3.042	8	83.95		83.95	58.77	
FLEJE	3	2.28	0.560	100	127.68		127.68	89.38	
0	3	0.74	0.560	400	165.76		165.76	116.03	
0	-	-	-	-	-		-	-	
A6	5	10.00	3.973	22	874.06		874.06	611.84	
0	5	8.48	3.973	11	370.60		370.60	259.42	
0	5	4.48	3.973	11	195.79		195.79	137.05	
FLEJE	3	2.08	0.560	112	130.69		130.69	91.48	
0	-	-	-	-	-		-	-	
B6	6	10.00	3.973	16	635.68		635.68	444.98	
0	6	8.48	3.973	8	269.53		269.53	188.67	
0	6	4.20	3.973	8	133.49		133.49	93.44	
0	6	3.75	3.973	8	119.19		119.19	83.43	
FLEJE	3	2.28	0.560	100	127.68		127.68	89.38	
0	3	0.74	0.560	400	165.76		165.76	116.03	
0	-	-	-	-	-		-	-	
E6	6	10.00	3.973	16	635.68		635.68	444.98	
0	6	8.48	3.973	8	269.53		269.53	188.67	
0	6	4.20	3.973	8	133.49		133.49	93.44	
0	6	3.75	3.973	12	178.79		178.79	125.15	
FLEJE3	3	2.28	0.560	100	127.68		127.68	89.38	
0	3	0.74	0.560	400	165.76		165.76	116.03	
0	-	-	-	-	-		-	-	
F6	6	13.00	3.973	22	874.06		874.06	611.84	
0	6	8.48	3.973	11	370.60		370.60	259.42	
0	6	4.48	3.973	11	195.79		195.79	137.05	
FLEJE	3	2.08	0.560	112	130.69		130.69	91.48	
0	-	-	-	-	-		-	-	
A7	8	10.00	3.973	22	874.06		874.06	611.84	
0	8	8.48	3.973	11	370.60		370.60	259.42	
0	8	4.20	3.973	11	183.55		183.55	128.49	
FLEJE	3	2.08	0.560	112	130.69		130.69	91.48	
0	-	-	-	-	-		-	-	
B7	7	10.00	3.042	10	304.20		304.20	212.94	
0	7	10.68	3.042	10	324.69		324.69	227.42	
0	7	7.75	3.042	10	235.76		235.76	165.03	
0	7	4.00	3.042	10	121.68		121.68	85.18	
0	7	3.45	3.042	8	83.95		83.95	58.77	
FLEJE	3	2.28	0.560	100	127.68		127.68	89.38	
0	3	0.74	0.560	400	165.76		165.76	116.03	
0	-	-	-	-	-		-	-	
E7	8	10.00	3.973	16	635.68		635.68	444.98	
0	8	8.48	3.973	8	269.53		269.53	188.67	
0	8	4.20	3.973	8	133.49		133.49	93.44	
0	8	3.75	3.973	12	178.79		178.79	125.15	
FLEJE	3	2.28	0.560	100	127.68		127.68	89.38	
0	3	0.74	0.560	400	165.76		165.76	116.03	
0	-	-	-	-	-		-	-	
F7	8	10.00	3.973	22	874.06		874.06	611.84	
0	8	8.48	3.973	11	370.60		370.60	259.42	
0	8	4.20	3.973	11	183.55		183.55	128.49	
0	3	2.08	0.560	112	130.69		130.69	91.48	
0	-	-	-	-	-		-	-	
A6	5	10.00	3.973	22	874.06		874.06	611.84	
0	5	8.48	3.973	11	370.60		370.60	259.42	
0	5	4.20	3.973	11	183.55		183.55	128.49	
FLEJE	3	2.08	0.560	112	130.69		130.69	91.48	
0	-	-	-	-	-		-	-	
B6	7	10.00	3.042	10	304.20		304.20	212.94	
0	7	10.68	3.042	10	324.69		324.69	227.42	
0	7	7.75	3.042	10	235.76		235.76	165.03	
0	7	4.00	3.042	10	121.68		121.68	85.18	
0	7	3.45	3.042	8	83.95		83.95	58.77	
FLEJE	3	2.28	0.560	100	127.68		127.68	89.38	
0	3	0.74	0.560	400	165.76		165.76	116.03	
0	-	-	-	-	-		-	-	
E6	6	10.00	3.973	16	635.68		635.68	444.98	

LOCALIZACION	CANTIDAD	ELEMENTOS			PARCIAL	VANOS		PESO	TOTAL	LOCALIZACION
		LARGO	ANCHO	CANT.		1	2 3 4			
D	6	8.48	3.973	8	269.53			269.53	188.67	
D	6	4.20	3.973	8	133.49			133.49	93.44	
D	6	3.75	3.973	12	178.79			178.79	125.15	
FLEJE	3	2.28	0.560	100	127.68			127.68	89.38	
D	3	0.74	0.560	400	165.76			165.76	116.03	
D	-	-	-	-	-			-	-	
F8	6	10.00	3.973	22	874.06			874.06	611.84	
D	6	8.48	3.973	11	370.60			370.60	259.42	
D	6	4.20	3.973	11	183.55			183.55	128.49	
D	3	2.58	0.560	112	130.69			130.69	91.48	
D	-	-	-	-	-			-	-	
A9	6	10.00	2.235	24	536.40			536.40	375.48	
D	6	7.10	2.235	5	95.21			95.21	66.65	
D	6	4.10	2.235	12	109.96			109.96	76.97	
FLEJE	3	2.28	0.560	100	127.68			127.68	89.38	
D	3	0.74	0.560	400	165.76			165.76	116.03	
D	-	-	-	-	-			-	-	
B9	7	10.00	3.042	8	243.36			243.36	170.35	
D	7	5.70	3.042	8	138.72			138.72	97.10	
D	7	10.50	3.042	8	255.53			255.53	178.87	
D	7	7.75	3.042	8	188.60			188.60	132.02	
D	7	4.20	3.042	8	102.21			102.21	71.55	
D	7	3.45	3.042	4	83.96			83.96	58.77	
FLEJE	3	2.28	0.560	100	127.68			127.68	89.38	
D	3	0.74	0.560	400	165.76			165.76	116.03	
D	-	-	-	-	-			-	-	
E9	7	10.00	3.042	10	304.20			304.20	212.94	
D	7	10.68	3.042	10	324.89			324.89	227.42	
D	7	7.75	3.042	10	235.75			235.75	165.03	
D	7	4.00	3.042	10	121.68			121.68	85.18	
D	7	3.45	3.042	4	83.96			83.96	58.77	
FLEJE	3	2.28	0.560	100	127.68			127.68	89.38	
D	3	0.74	0.560	400	165.76			165.76	116.03	
D	-	-	-	-	-			-	-	
F9	6	10.00	3.973	15	835.66			835.66	444.96	
D	6	8.48	3.973	8	269.53			269.53	188.67	
D	6	4.20	3.973	8	133.49			133.49	93.44	
D	6	3.75	3.973	12	178.79			178.79	125.15	
FLEJE	3	2.28	0.560	100	127.68			127.68	89.38	
D	3	0.74	0.560	400	165.76			165.76	116.03	
D	-	-	-	-	-			-	-	
A10	6	10.00	3.973	12	476.76			476.76	333.73	
D	6	8.18	3.973	6	194.99			194.99	136.50	
D	6	4.00	3.973	6	95.35			95.35	66.75	
FLEJE	3	2.28	0.560	100	127.68			127.68	89.38	
D	3	0.74	0.560	400	165.76			165.76	116.03	
D	-	-	-	-	-			-	-	
C10	6	10.00	2.235	16	357.60			357.60	250.32	
D	6	7.70	2.235	8	137.68			137.68	96.37	
D	6	3.70	2.235	8	66.16			66.16	46.31	
D	6	3.20	2.235	12	85.82			85.82	60.08	
FLEJE	3	2.28	0.560	100	127.68			127.68	89.38	
D	3	0.74	0.560	400	165.76			165.76	116.03	
D	-	-	-	-	-			-	-	
D10	6	10.00	3.973	12	476.76			476.76	333.73	
D	6	5.45	3.973	6	202.15			202.15	141.50	
D	6	4.48	3.973	6	106.79			106.79	74.76	
D	6	3.75	3.973	8	119.19			119.19	83.43	
FLEJE	3	2.28	0.560	100	127.68			127.68	89.38	
D	3	0.74	0.560	400	165.76			165.76	116.03	
D	-	-	-	-	-			-	-	
F10	7	10.00	3.042	8	243.36			243.36	170.35	
D	7	10.77	3.042	8	262.10			262.10	183.47	
D	7	7.85	3.042	8	191.04			191.04	133.73	
D	7	3.85	3.042	8	93.69			93.69	65.58	
D	7	3.45	3.042	8	83.96			83.96	58.77	
FLEJE	3	2.28	0.560	100	127.68			127.68	89.38	

LOCALIZACION	CANTIDAD	ELEMENTOS			# PANOS	VANOS			PESO	TOTAL	LOCALIZACION
		LONG.	PESO	CANT.		L	a	h			
D	3	0.74	0.560	400	165.76				165.76	116.03	
D	-	-	-	-	-				-	-	
A11	5	10.00	3.973	12	476.76				476.76	333.73	
D	9	8.50	3.973	6	202.62				202.62	141.84	
D	8	4.25	3.973	6	101.31				101.31	70.92	
D	5	3.75	3.973	8	119.19				119.19	83.43	
FLEJE	3	2.28	0.560	100	127.68				127.68	89.38	
D	3	0.74	0.560	400	165.76				165.76	116.03	
D	-	-	-	-	-				-	-	
C11	5	10.00	3.973	12	476.76				476.76	333.73	
D	5	8.46	3.973	6	202.15				202.15	141.50	
D	8	4.46	3.973	6	106.79				106.79	74.76	
D	8	3.75	3.973	12	178.79				178.79	125.15	
FLEJE	3	2.28	0.560	100	127.68				127.68	89.38	
D	3	0.74	0.560	400	165.76				165.76	116.03	
D	-	-	-	-	-				-	-	
D11	5	10.00	3.973	12	476.76				476.76	333.73	
D	5	11.00	3.973	6	349.62				349.62	244.74	
D	8	8.46	3.973	8	269.53				269.53	188.67	
D	8	4.46	3.973	6	106.79				106.79	74.76	
D	5	3.75	3.973	8	119.19				119.19	83.43	
FLEJE	3	2.28	0.560	100	127.68				127.68	89.38	
D	3	0.74	0.560	400	165.76				165.76	116.03	
D	-	-	-	-	-				-	-	
F11	5	10.00	3.973	20	794.60				794.60	556.22	
D	5	8.46	3.973	6	202.15				202.15	141.50	
D	8	4.46	3.973	10	177.99				177.99	124.59	
D	5	3.75	3.973	8	119.19				119.19	83.43	
FLEJE	3	2.28	0.560	100	127.68				127.68	89.38	
D	3	0.74	0.560	400	165.76				165.76	116.03	
D	-	-	-	-	-				-	-	
A12	7	10.00	3.042	8	243.36				243.36	170.35	
D	7	10.15	3.042	8	247.01				247.01	172.91	
D	7	8.23	3.042	8	200.29				200.29	140.20	
D	7	4.23	3.042	8	102.94				102.94	72.06	
D	7	3.45	3.042	8	83.96				83.96	58.77	
FLEJES	3	2.28	0.560	100	127.68				127.68	89.38	
D	3	0.74	0.560	400	165.76				165.76	116.03	
D	-	-	-	-	-				-	-	
B12	7	10.00	3.042	24	730.08				730.08	511.06	
D	7	7.65	3.042	6	143.28				143.28	100.29	
D	7	4.04	3.042	12	147.48				147.48	103.23	
D	7	3.45	3.042	8	83.96				83.96	58.77	
FLEJES	3	2.28	0.560	100	127.68				127.68	89.38	
D	3	0.74	0.560	400	165.76				165.76	116.03	
D	-	-	-	-	-				-	-	
D12	5	10.00	3.973	20	794.60				794.60	556.22	
D	5	8.46	3.973	10	336.91				336.91	235.84	
D	8	4.46	3.973	10	177.99				177.99	124.59	
D	5	3.75	3.973	8	119.19				119.19	83.43	
FLEJE	3	2.28	0.560	100	127.68				127.68	89.38	
D	3	0.74	0.560	400	165.76				165.76	116.03	
D	-	-	-	-	-				-	-	
F12	3	10.00	3.973	20	794.60				794.60	556.22	
D	5	8.46	3.973	10	336.91				336.91	235.84	
D	5	4.46	3.973	10	177.99				177.99	124.59	
D	5	3.75	3.973	8	119.19				119.19	83.43	
FLEJE	3	2.28	0.560	100	127.68				127.68	89.38	
D	3	0.74	0.560	400	165.76				165.76	116.03	
D	-	-	-	-	-				-	-	
A13	8	10.00	3.973	22	874.06				874.06	611.84	
D	8	8.46	3.973	11	370.80				370.80	259.42	
D	8	4.46	3.973	11	195.79				195.79	137.05	
D	3	2.08	0.500	112	130.69				130.69	91.48	
D	-	-	-	-	-				-	-	
B13	7	10.00	3.042	12	365.04				365.04	255.53	
D	7	11.15	3.042	12	407.02				407.02	284.91	

LOCALIZACION	EJE/CLA	ELEMENTOS			P. PARCIAL	VARIOS			PESO	TOTAL	LOCALIZACION
		LARGO	ANCHO	CANT.		L	A	P			
0	7	8.23	3.042	6	150.21				150.21	105.16	
0	7	4.23	3.042	12	154.41				154.41	108.09	
0	7	3.45	3.042	8	83.98				83.98	58.77	
FLEJE	3	2.28	0.560	100	127.68				127.68	89.38	
0	3	0.74	0.560	400	165.76				165.76	116.03	
0	-	-	-	-	-				-	-	
E13	8	10.00	3.973	16	635.68				635.68	444.98	
0	8	8.48	3.973	8	269.53				269.53	188.67	
0	8	4.48	3.973	8	142.39				142.39	99.67	
0	8	3.75	3.973	12	178.79				178.79	125.15	
0	3	2.28	0.560	100	127.68				127.68	89.38	
0	3	0.74	0.560	400	165.76				165.76	116.03	
0	-	-	-	-	-				-	-	
F13	8	10.00	3.973	22	874.06				874.06	611.84	
0	8	8.48	3.973	11	370.60				370.60	259.42	
0	8	4.48	3.973	11	195.79				195.79	137.05	
0	3	2.08	0.560	112	130.69				130.69	91.48	
0	-	-	-	-	-				-	-	
A14	8	9.70	3.973	11	423.92				423.92	296.74	
0	8	10.00	3.973	11	437.03				437.03	305.92	
0	8	8.48	3.973	11	370.60				370.60	259.42	
0	8	4.48	3.973	11	195.79				195.79	137.05	
FLEJE	3	2.08	0.560	112	130.69				130.69	91.48	
0	-	-	-	-	-				-	-	
B14	8	10.00	3.973	23	784.80				784.80	556.22	
0	8	8.48	3.973	10	335.91				336.91	235.84	
0	8	4.48	3.973	10	177.99				177.99	124.59	
0	8	3.75	3.973	5	119.19				119.19	83.43	
0	3	2.28	0.560	100	127.68				127.68	89.38	
FLEJE	3	0.74	0.560	400	165.76				165.76	116.03	
0	-	-	-	-	-				-	-	
S14	8	10.00	3.973	16	635.68				635.68	444.98	
0	8	8.48	3.973	8	269.53				269.53	188.67	
0	8	4.48	3.973	8	142.39				142.39	99.67	
0	8	3.75	3.973	12	178.79				178.79	125.15	
FLEJE	3	2.28	0.560	100	127.68				127.68	89.38	
0	3	0.74	0.560	400	165.76				165.76	116.03	
0	-	-	-	-	-				-	-	
F14	8	10.00	3.973	22	874.06				874.06	611.84	
0	8	8.48	3.973	11	370.60				370.60	259.42	
0	8	4.48	3.973	11	195.79				195.79	137.05	
FLEJE	3	2.08	0.560	112	130.69				130.69	91.48	
0	-	-	-	-	-				-	-	
A15	8	10.00	3.973	22	874.06				874.06	611.84	
0	8	8.48	3.973	11	370.60				370.60	259.42	
0	8	4.48	3.973	11	195.79				195.79	137.05	
FLEJE	3	2.08	0.560	112	130.69				130.69	91.48	
0	-	-	-	-	-				-	-	
B15	8	10.00	3.973	24	953.52				953.52	667.46	
0	8	8.48	3.973	6	202.15				202.15	141.50	
0	8	4.48	3.973	12	213.59				213.59	149.51	
0	5	3.10	1.552	8	38.49				38.49	26.94	
FLEJE	3	2.28	0.560	100	127.68				127.68	89.38	
0	3	0.74	0.560	400	165.76				165.76	116.03	
0	-	-	-	-	-				-	-	
E15	8	10.00	3.973	16	635.68				635.68	444.98	
0	8	8.48	3.973	8	269.53				269.53	188.67	
0	8	4.48	3.973	8	142.39				142.39	99.67	
0	8	3.75	3.973	12	178.79				178.79	125.15	
FLEJE	3	2.28	0.560	100	127.68				127.68	89.38	
0	3	0.74	0.560	400	165.76				165.76	116.03	
0	-	-	-	-	-				-	-	
F15	8	10.00	3.973	22	874.06				874.06	611.84	
0	8	8.48	3.973	11	370.60				370.60	259.42	
0	8	4.48	3.973	11	195.79				195.79	137.05	
FLEJE	3	2.08	0.560	112	130.69				130.69	91.48	
0	-	-	-	-	-				-	-	

LOCALIZACION	N° VARILLA	ELEMENTOS			P. PARCIAL	VANOS			PESO	TOTAL	LOCALIZACION
		LARGO	PESO	CANT.		1	2	3			
A18	7	5.70	3.042	8	138.72				138.72	97.10	
0	7	10.90	3.042	20	608.40				608.40	425.88	
0	7	8.23	3.042	10	250.36				250.36	175.25	
0	7	4.23	3.042	10	129.68				129.68	90.07	
0	7	3.45	3.042	8	83.96				83.96	58.77	
FLEJE	3	2.23	0.560	100	127.68				127.68	89.38	
0	3	0.74	0.560	400	165.76				165.76	116.03	
0	-	-	-	-	-				-	-	
B18	8	9.70	3.973	8	308.30				308.30	215.81	
0	8	10.00	3.973	8	317.84				317.84	222.49	
0	8	8.48	3.973	8	269.53				269.53	188.67	
0	8	4.48	3.973	8	142.39				142.39	99.67	
0	8	3.75	3.973	8	119.19				119.19	83.43	
FLEJE	3	2.23	0.560	100	127.68				127.68	89.38	
0	3	0.74	0.560	400	165.76				165.76	116.03	
0	-	-	-	-	-				-	-	
E18	8	10.00	3.973	12	476.76				476.76	333.73	
0	8	10.45	3.973	4	166.07				166.07	116.25	
0	8	6.48	3.973	8	202.15				202.15	141.50	
0	8	8.05	3.973	4	127.93				127.93	89.55	
0	8	4.48	3.973	6	106.79				106.79	74.76	
0	8	3.75	3.973	8	119.19				119.19	83.43	
FLEJE	3	2.28	0.560	100	127.68				127.68	89.38	
0	3	0.74	0.560	400	165.76				165.76	116.03	
0	-	-	-	-	-				-	-	
F18	8	10.00	3.973	16	635.68				635.68	444.98	
0	8	8.48	3.973	8	269.53				269.53	188.67	
0	8	4.48	3.973	8	142.39				142.39	99.67	
0	8	3.75	3.973	8	119.19				119.19	83.43	
FLEJE	3	2.28	0.560	100	127.68				127.68	89.38	
0	3	0.74	0.560	400	165.76				165.76	116.03	
0	-	-	-	-	-				-	-	
A17	5	6.00	1.552	4	55.87				55.87	39.11	
0	6	9.60	2.235	10	214.56				214.56	150.19	
0	6	9.50	2.235	10	212.33				212.33	148.63	
0	5	8.70	1.552	2	33.11				33.11	21.08	
0	6	9.00	2.235	10	201.15				201.15	140.81	
0	6	6.50	2.235	10	145.28				145.28	101.69	
0	5	6.50	1.552	2	20.18				20.18	14.12	
0	5	3.00	1.552	2	9.30				9.30	6.51	
0	6	2.60	2.235	10	58.00				58.00	40.60	
FLEJE	3	2.28	0.560	159	203.01				203.01	142.11	
0	3	0.72	0.560	635	256.44				256.44	179.50	
0	-	-	-	-	-				-	-	
B17	8	10.15	3.973	5	323.40				323.40	226.38	
0	7	9.81	3.042	15	467.64				467.64	327.35	
0	8	9.80	3.973	8	311.48				311.48	218.04	
0	7	8.96	3.042	16	484.53				484.53	339.17	
FLEJE	3	2.28	0.560	224	286.00				286.00	200.20	
0	3	0.72	0.560	896	361.27				361.27	252.89	
0	-	-	-	-	-				-	-	
E17	7	7.00	3.042	32	681.41				681.41	476.99	
0	7	4.50	3.042	48	657.07				657.07	459.95	
0	7	8.00	3.042	16	389.38				389.38	272.56	
0	16	3.50	-	16	56.00				56.00	39.20	
FLEJE	3	2.28	0.560	162	206.84				206.84	144.79	
0	3	1.84	0.560	324	333.85				333.85	233.69	
0	3	0.72	0.560	324	130.64				130.64	91.45	
0	-	-	-	-	-				-	-	
F17	7	9.62	3.042	8	234.11				234.11	163.88	
0	7	10.40	3.042	8	253.09				253.09	177.17	
0	7	8.00	3.042	8	194.69				194.69	136.28	
0	7	3.32	3.042	8	80.80				80.80	56.56	
FLEJE	3	2.28	0.560	108	137.89				137.89	96.53	
0	3	1.84	0.560	216	222.57				222.57	155.80	
0	3	0.72	0.560	216	87.09				87.09	60.96	
0	-	-	-	-	-				-	-	

LOCALIZACION	ANGULO	ELEMENTO			P. PARCIAL	VARIOS			PESO	TOTAL	LOCALIZACION
		LARGO	PESO	CANT.		1	2	N			
A18	7	9.88	3.042	4	120.22				120.22	84.16	
0	8	10.43	3.973	8	331.51				331.51	232.06	
0	7	9.13	3.042	4	111.09				111.09	77.77	
0	8	7.14	3.973	8	226.78				226.78	158.75	
0	7	3.00	3.042	4	36.50				36.50	25.55	
FLEJE	3	2.28	0.560	146	186.41				186.41	130.49	
0	3	1.64	0.560	292	268.17				268.17	187.72	
0	-	-	-	-	-				-	-	
B18	8	10.50	3.973	8	333.73				333.73	233.61	
0	8	11.00	3.973	8	349.62				349.62	244.74	
0	8	10.00	3.973	8	317.84				317.84	222.49	
0	8	6.43	3.973	8	204.37				204.37	143.06	
0	8	2.40	3.973	8	76.23				76.23	53.40	
FLEJE	3	2.23	0.560	145	185.14				185.14	129.60	
0	3	1.54	0.560	290	296.62				296.62	203.17	
0	3	0.72	0.560	290	116.93				116.93	81.85	
0	-	-	-	-	-				-	-	
E18	7	10.00	3.042	4	121.68				121.68	85.18	
0	6	9.56	2.235	12	256.27				256.27	179.39	
0	8	8.71	2.235	12	233.60				233.60	163.52	
0	7	9.62	3.042	4	117.06				117.06	81.94	
0	7	8.00	3.042	4	97.34				97.34	68.14	
0	7	8.08	3.042	12	294.04				294.04	205.83	
0	7	3.50	3.042	10	109.47				109.47	76.63	
0	6	3.50	2.235	12	93.87				93.87	65.71	
FLEJE	3	2.28	0.560	143	182.58				182.58	127.81	
0	3	1.84	0.560	286	294.60				294.86	206.29	
0	3	0.72	0.560	285	115.32				115.32	80.72	
0	-	-	-	-	-				-	-	
F18	7	10.00	3.042	8	243.36				243.36	170.35	
0	7	9.50	3.042	8	231.18				231.18	161.83	
0	7	8.00	3.042	4	97.34				97.34	68.14	
0	8	6.00	3.973	4	127.14				127.14	89.00	
0	7	3.62	3.042	8	88.10				88.10	61.67	
FLEJE	3	2.26	0.560	109	137.89				137.89	96.53	
0	3	1.84	0.560	218	222.57				222.57	155.80	
0	3	0.72	0.560	218	87.09				87.09	60.96	
0	-	-	-	-	-				-	-	
A19	8	10.35	3.973	13	534.57				534.57	374.20	
0	6	10.00	2.235	13	290.55				290.55	203.39	
0	8	9.20	3.973	13	423.52				423.52	296.47	
0	6	3.40	2.235	13	98.79				98.79	69.15	
FLEJE	3	2.71	0.560	237	359.93				359.93	251.95	
0	-	-	-	-	-				-	-	
B19	-	-	-	-	-				-	-	
FLEJE	3	2.28	0.560	37	47.24				47.24	33.07	
FLEJE	3	1.84	0.560	74	76.25				76.25	53.37	
0	3	0.74	0.560	74	30.67				30.67	21.47	
0	-	-	-	-	-				-	-	
E19	7	10.33	3.042	8	251.27				251.27	175.89	
0	7	10.28	3.042	8	250.17				250.17	175.12	
0	7	6.00	3.042	16	292.03				292.03	204.42	
0	7	8.00	3.042	8	194.69				194.69	136.28	
0	7	3.50	3.042	8	85.18				85.18	59.62	
FLEJE	3	1.74	0.560	318	309.86				309.86	216.90	
0	3	2.44	0.560	159	217.28				217.28	152.09	
0	3	3.08	0.560	159	274.24				274.24	191.97	
0	-	-	-	-	-				-	-	
F19	7	10.25	3.042	8	249.44				249.44	174.61	
0	7	10.15	3.042	8	247.01				247.01	172.91	
0	7	8.00	3.042	8	194.69				194.69	136.28	
0	7	3.50	3.042	8	85.18				85.18	59.62	
FLEJE	3	2.06	0.560	141	164.52				164.52	115.17	
0	-	-	-	-	-				-	-	
A20	8	9.00	2.235	13	261.50				261.50	183.05	
0	6	8.00	2.235	13	174.33				174.33	122.03	
0	8	4.00	3.973	24	381.41				381.41	266.99	

LOCALIZACIÓN	CANTIDAD	ELEMENTOS			P. PARCIAL	CAMIOS			PESO	TOTAL	LOCALIZACIÓN
		LARGO	PESO	CANT		X	Y	Z			
0	3	0.32	0.560	36	6.45				6.45	4.52	
0	2	0.29	0.250	144	10.44				10.44	7.31	
MOD-1 EJE 3 N=4.29 A N=8.58	4	6.00	0.994	6	35.78				35.78	25.05	
0	4	5.43	0.994	6	32.21				32.21	22.54	
0	4	5.50	0.994	10	54.67				54.67	38.27	
0	4	5.50	0.994	10	54.67				54.67	38.27	
FLEJE	3	3.77	0.560	36	76.00				76.00	53.20	
0	3	1.30	0.560	36	26.21				26.21	18.35	
0	3	0.32	0.560	36	6.45				6.45	4.52	
0	2	0.29	0.250	144	10.44				10.44	7.31	
MOD-1 EJE 3 N=8.58 A N=12.87	4	4.20	0.994	6	25.05				25.05	17.53	
0	4	6.00	0.994	6	35.78				35.78	25.05	
0	4	5.10	0.994	10	50.69				50.69	35.49	
0	4	5.10	0.994	10	50.69				50.69	35.49	
FLEJE	3	3.77	0.560	36	76.00				76.00	53.20	
0	3	1.30	0.560	36	26.21				26.21	18.35	
0	3	0.32	0.560	36	6.45				6.45	4.52	
0	2	0.29	0.250	144	10.44				10.44	7.31	
MOD-1 EJE 3 N=12.87 A N=19.96	4	6.00	0.994	6	35.78				35.78	25.05	
0	4	5.70	0.994	6	22.07				22.07	15.45	
0	4	4.20	0.994	10	41.75				41.75	29.22	
0	4	2.30	0.994	10	22.88				22.88	15.00	
FLEJE	3	3.77	0.560	78	164.67				164.67	115.27	
0	3	1.30	0.560	78	56.78				56.78	39.75	
0	3	0.32	0.560	78	13.98				13.98	9.79	
0	2	0.29	0.250	312	22.62				22.62	15.83	
0	-	-	-	-	-				-	-	
5C E1-E N=0.0 A N=4.29	2	5.80	0.250	6	8.70				8.70	6.09	
0	2	5.00	0.250	6	7.50				7.50	5.25	
0	2	5.80	0.250	10	14.50				14.50	10.15	
0	2	5.80	0.250	10	14.50				14.50	10.15	
FLEJE	2	2.96	0.250	18	12.87				12.87	9.01	
0	2	0.48	0.250	54	6.48				6.48	4.54	
0	2	0.21	0.250	54	2.84				2.84	1.98	
5C E1-E N=4.29 A N=8.58	2	5.90	0.250	6	7.50				7.50	5.25	
0	2	5.40	0.250	6	8.10				8.10	5.67	
0	2	5.00	0.250	10	12.50				12.50	8.75	
0	2	5.00	0.250	10	12.50				12.50	8.75	
FLEJE	2	2.86	0.250	18	12.87				12.87	9.01	
0	2	0.48	0.250	54	6.48				6.48	4.54	
0	2	0.21	0.250	54	2.84				2.84	1.98	
5C E1-E N=8.58 A N=12.87	2	4.20	0.250	6	6.30				6.30	4.41	
0	2	5.00	0.250	6	7.50				7.50	5.25	
0	2	5.00	0.250	10	12.50				12.50	8.75	
0	2	5.00	0.250	10	12.50				12.50	8.75	
FLEJE	2	2.86	0.250	18	12.87				12.87	9.01	
0	2	0.48	0.250	54	6.48				6.48	4.54	
0	2	0.21	0.250	54	2.84				2.84	1.98	
5C E1-E N=12.87 A N=17.16	2	5.00	0.250	6	7.50				7.50	5.25	
0	2	4.60	0.250	6	5.90				5.90	4.83	
0	2	5.00	0.250	10	12.50				12.50	8.75	
0	2	5.00	0.250	10	12.50				12.50	8.75	
FLEJE	2	2.86	0.250	18	12.87				12.87	9.01	
0	2	0.48	0.250	54	6.48				6.48	4.54	
0	2	0.21	0.250	54	2.84				2.84	1.98	
5C E1-E N=17.15 A N=19.95	2	3.70	0.250	6	5.55				5.55	3.89	
0	2	3.70	0.250	6	5.55				5.55	3.89	
0	2	2.90	0.250	10	7.25				7.25	5.08	
0	2	2.90	0.250	10	7.25				7.25	5.08	
FLEJE	2	2.86	0.250	24	17.16				17.16	12.01	
0	2	0.48	0.250	72	8.64				8.64	6.05	
0	2	0.21	0.250	72	3.78				3.78	2.65	
5A E3 - F N=0.0 A N=4.29	2	5.90	0.250	6	7.50				7.50	5.25	
0	2	5.80	0.250	6	8.70				8.70	6.09	
0	2	5.80	0.250	11	15.95				15.95	11.17	
0	2	5.80	0.250	11	15.95				15.95	11.17	
FLEJE	2	0.43	0.250	28	3.36				3.36	2.35	

LOCALIZACIÓN	PARCIAL	ELEMENTOS			PARCIAL	VANOS			PESO	TOTAL	LOCALIZACIÓN
		LONG	PESO	CANT		L	a	b			
FLEJE	3	2.71	3.860	139	211.10				211.10	147.77	
0	-	-	-	-	-				-	-	
B20	-	-	-	-	-				-	-	
0	3	2.25	0.560	42	53.63				53.63	37.54	
0	3	1.84	0.560	84	77.15				77.15	54.00	
0	-	-	-	-	-				-	-	
E20	7	10.20	3.042	8	248.23				248.23	173.76	
0	7	6.00	3.042	2	36.50				36.50	25.55	
0	7	8.00	3.042	6	146.02				146.02	102.21	
0	7	4.00	3.042	3	73.01				73.01	51.11	
0	7	4.00	3.042	49	584.08				584.08	408.84	
0	3	3.08	0.560	120	206.98				206.98	144.88	
FLEJE	3	2.44	0.560	68	92.92				92.92	65.04	
0	3	1.74	0.560	136	132.52				132.52	92.76	
0	3	2.34	0.560	104	136.28				136.28	95.40	
0	3	1.54	0.560	208	179.38				179.38	125.57	
0	3	0.72	0.560	52	20.97				20.97	14.68	
0	-	-	-	-	-				-	-	
F20	7	10.23	3.042	10	311.20				311.20	217.84	
0	7	8.00	3.042	9	219.02				219.02	153.32	
0	7	3.50	3.042	10	106.47				106.47	74.53	
FLEJE	3	2.08	0.560	115	137.69				137.69	96.38	
0	-	-	-	-	-				-	-	
E4.20A	7	8.00	3.042	6	146.02				146.02	102.21	
0	7	9.85	3.042	8	234.36				234.36	164.05	
0	7	9.23	3.042	8	224.50				224.50	157.15	
0	7	8.00	3.042	4	73.01				73.011	51.11	
0	7	8.00	3.042	4	97.34				97.34	68.14	
0	6	4.00	3.973	6	95.35				95.35	66.75	
0	7	4.00	3.042	3	73.01				73.01	51.11	
FLEJE	3	2.28	0.560	102	130.23				130.23	91.16	
0	3	0.72	0.560	612	246.78				246.78	172.73	
0	-	-	-	-	-				-	-	
A21	7	7.00	3.042	6	127.76				127.76	89.43	
0	7	8.00	3.042	6	146.02				146.02	102.21	
0	7	4.50	3.042	6	82.13				82.13	57.49	
0	7	3.50	3.042	6	63.88				63.88	44.72	
FLEJE	3	2.28	0.560	90	114.91				114.91	80.44	
0	3	1.84	0.560	180	165.31				165.31	115.72	
0	-	-	-	-	-				-	-	
B21	7	10.00	3.042	8	243.36				243.36	170.35	
0	6	5.50	2.235	6	98.34				98.34	68.84	
0	7	3.50	3.042	24	255.53				255.53	178.87	
0	7	3.70	3.042	6	90.04				90.04	63.03	
FLEJE	3	2.80	0.560	83	130.14				130.14	91.10	
0	3	1.84	0.560	166	171.05				171.05	119.73	
0	3	0.72	0.560	166	66.93				66.93	46.85	
0	-	-	-	-	-				-	-	
E21	7	10.00	3.042	4	121.68				121.68	85.18	
0	6	7.95	3.973	8	253.64				253.64	177.55	
0	6	3.74	3.973	4	59.36				59.36	41.55	
0	7	3.50	3.042	4	42.59				42.59	29.81	
FLEJE	3	2.28	0.560	93	116.74				116.74	83.12	
0	3	1.84	0.560	185	170.62				170.62	119.58	
0	-	-	-	-	-				-	-	
F21	7	10.20	3.042	4	124.11				124.11	86.88	
0	6	8.45	3.973	9	269.33				269.33	188.67	
0	7	3.50	3.042	4	42.59				42.59	29.81	
FLEJE	3	2.28	0.560	90	114.91				114.91	80.44	
0	3	1.84	0.560	180	165.31				165.31	115.72	
MUROS-PANTALLAS									-	-	
MOD-1 EJE 3 N+0.0 A N+4.29	4	6.40	0.994	8	38.17				38.17	26.72	
0	4	6.00	0.994	8	35.76				35.76	25.03	
0	4	6.40	0.994	10	63.62				63.62	44.53	
0	4	6.40	0.994	10	63.62				63.62	44.53	
FLEJE	3	3.77	0.560	38	76.00				76.00	53.20	
0	3	1.30	0.560	36	26.21				26.21	18.35	

LOCALIZACIÓN	EMPALME	ELEMENTOS			P. PARCIAL	VANOS			PESO	TOTAL	LOCALIZACIÓN
		CARGO	PESO	CANT.		L	A	h			
0	2	0.21	0.250	154	8.09				8.09	5.66	
0	2	2.49	0.250	28	17.43				17.43	12.20	
5A E3 - F N+4.29 A N+8.58	2	5.00	0.250	6	7.50				7.50	5.25	
0	2	5.40	0.250	6	8.10				8.10	5.67	
0	2	5.00	0.250	11	13.75				13.75	9.63	
0	2	5.00	0.250	11	13.75				13.75	9.63	
FLEJE	2	0.48	0.250	28	3.36				3.36	2.35	
0	2	0.21	0.250	154	8.09				8.09	5.66	
0	2	2.49	0.250	28	17.43				17.43	12.20	
5A E3 - F N+8.58 A N+12.87	2	4.20	0.250	6	6.30				6.30	4.41	
0	2	5.00	0.250	6	7.50				7.50	5.25	
0	2	5.00	0.250	11	13.75				13.75	9.63	
0	2	5.00	0.250	11	13.75				13.75	9.63	
FLEJE	2	0.48	0.250	28	3.36				3.36	2.35	
0	2	0.21	0.250	154	8.09				8.09	5.66	
0	2	2.49	0.250	28	17.43				17.43	12.20	
5A E3 - F N+12.87 A N+17.16	2	5.00	0.250	6	7.50				7.50	5.25	
0	2	4.60	0.250	6	6.90				6.90	4.83	
0	2	5.00	0.250	11	13.75				13.75	9.63	
0	2	5.00	0.250	11	13.75				13.75	9.63	
FLEJE	2	0.48	0.250	28	3.36				3.36	2.35	
0	2	0.21	0.250	154	8.09				8.09	5.66	
0	2	2.49	0.250	28	17.43				17.43	12.20	
5A E3 - F N+17.16 A N+22.55	2	3.80	0.250	6	5.70				5.70	3.99	
0	2	3.80	0.250	6	5.70				5.70	3.99	
0	2	3.00	0.250	11	8.25				8.25	5.78	
0	2	3.00	0.250	11	8.25				8.25	5.78	
FLEJE	2	0.48	0.250	38	4.56				4.56	3.19	
0	2	0.21	0.250	203	10.97				10.97	7.68	
0	2	2.49	0.250	38	23.66				23.66	16.56	
E3 5-5A N+0.00 A N+4.29	2	6.40	0.250	12	19.20				19.20	13.44	
0	-	-	-	-	-				-	-	
0	2	6.40	0.250	10	16.00				16.00	11.20	
0	-	-	-	-	-				-	-	
FLEJE	2	4.06	0.250	14	14.21				14.21	9.95	
0	2	0.24	0.250	42	2.52				2.52	1.76	
0	3	0.58	0.580	28	9.09				9.09	6.37	
E3 5-5A N+4.29 A N+8.58	2	4.60	0.250	12	13.80				13.80	9.66	
0	-	-	-	-	-				-	-	
0	2	4.60	0.250	10	11.50				11.50	8.05	
0	-	-	-	-	-				-	-	
FLEJE	2	4.06	0.250	14	14.21				14.21	9.95	
0	2	0.24	0.250	42	2.52				2.52	1.76	
0	3	0.58	0.580	28	9.09				9.09	6.37	
E3 5-5A N+8.58 A N+12.87	2	4.60	0.250	12	13.80				13.80	9.66	
0	-	-	-	-	-				-	-	
0	2	4.60	0.250	10	11.50				11.50	8.05	
0	-	-	-	-	-				-	-	
FLEJE	2	4.06	0.250	14	14.21				14.21	9.95	
0	2	0.24	0.250	42	2.52				2.52	1.76	
0	3	0.58	0.580	28	9.09				9.09	6.37	
E3 5-5A N+12.87 A N+17.16	2	5.20	0.250	12	15.60				15.60	10.92	
0	-	-	-	-	-				-	-	
0	2	5.20	0.250	10	13.00				13.00	9.10	
0	-	-	-	-	-				-	-	
FLEJE	2	4.06	0.250	14	14.21				14.21	9.95	
0	2	0.24	0.250	42	2.52				2.52	1.76	
0	3	0.58	0.580	28	9.09				9.09	6.37	
E3 5-5A N+17.16 A N+22.55	2	3.00	0.250	12	9.00				9.00	6.30	
0	-	-	-	-	-				-	-	
0	2	3.00	0.250	10	7.50				7.50	5.25	
0	-	-	-	-	-				-	-	
FLEJE	2	4.06	0.250	19	19.29				19.29	13.50	
0	2	0.24	0.250	57	3.42				3.42	2.39	
0	3	0.58	0.580	38	12.34				12.34	8.64	
E1 5-5C N+0.00 A N+4.29	2	5.80	0.250	6	8.70				8.70	6.09	
0	2	5.00	0.250	3	7.50				7.50	5.25	

LOCALIZACIÓN	# PANELA	ELEMENTOS			F. PARCIAL	VARIOS			TOTAL	TOTAL	LOCALIZACIÓN
		LARGO	PESO	CANT.		L	S	P			
0	2	5.80	0.250	7	10.15				10.15	7.11	
0	2	5.80	0.250	7	10.15				10.15	7.11	
FLEJE	-	-	-	-	-				-	-	
0	2	0.48	0.250	25	3.36				3.36	2.35	
0	3	2.13	0.580	25	33.40				33.40	23.38	
E1 S-SC N=4.29 A N=8.58	2	5.00	0.250	5	7.50				7.50	5.25	
0	2	6.40	0.250	6	8.10				8.10	5.67	
0	2	5.00	0.250	7	8.75				8.75	6.13	
0	2	5.00	0.250	7	8.75				8.75	6.13	
FLEJE	-	-	-	-	-				-	-	
0	2	0.48	0.250	25	3.36				3.36	2.35	
0	3	2.13	0.580	25	33.40				33.40	23.38	
E1 S-SC N=8.58 A N=12.87	2	4.20	0.250	6	6.30				6.30	4.41	
0	2	5.00	0.250	6	7.50				7.50	5.25	
0	2	5.00	0.250	7	8.75				8.75	6.13	
0	2	5.00	0.250	7	8.75				8.75	6.13	
FLEJE	-	-	-	-	-				-	-	
0	2	0.48	0.250	28	3.36				3.36	2.35	
0	3	2.13	0.580	28	33.40				33.40	23.38	
E1 S-SC N=12.87 A N=17.16	2	5.00	0.250	6	7.50				7.50	5.25	
0	2	4.60	0.250	6	6.90				6.90	4.83	
0	2	5.00	0.250	7	8.75				8.75	6.13	
0	2	5.00	0.250	7	8.75				8.75	6.13	
FLEJE	-	-	-	-	-				-	-	
0	2	0.48	0.250	28	3.36				3.36	2.35	
0	3	2.13	0.580	28	33.40				33.40	23.38	
E1 S-SC N=17.16 A N=22.55	2	3.80	0.250	6	5.70				5.70	3.99	
0	2	3.80	0.250	6	5.70				5.70	3.99	
0	2	3.00	0.250	7	5.25				5.25	3.68	
0	2	3.00	0.250	7	5.25				5.25	3.68	
FLEJE	-	-	-	-	-				-	-	
0	2	0.48	0.250	38	4.56				4.56	3.19	
0	3	2.13	0.580	38	45.33				45.33	31.73	
F S-SA N=0.00 A N=4.29	2	9.40	0.250	12	19.20				19.20	13.44	
0	-	-	-	-	-				-	-	
0	2	8.40	0.250	18	25.60				25.60	17.92	
FLEJE	2	0.24	0.250	108	6.48				6.48	4.54	
0	2	0.54	0.250	36	4.86				4.86	3.40	
0	2	4.04	0.250	18	18.18				18.18	12.73	
F S-SA N=4.29 A N=8.58	2	4.60	0.250	12	13.80				13.80	9.66	
0	-	-	-	-	-				-	-	
0	2	4.60	0.250	16	18.40				18.40	12.88	
FLEJE	2	0.24	0.250	108	6.48				6.48	4.54	
0	2	0.54	0.250	36	4.86				4.86	3.40	
0	2	4.04	0.250	18	18.18				18.18	12.73	
F S-SA N=8.58 A N=12.87	2	4.60	0.250	12	13.80				13.80	9.66	
0	-	-	-	-	-				-	-	
0	2	4.60	0.250	16	18.40				18.40	12.88	
FLEJE	2	0.24	0.250	108	6.48				6.48	4.54	
0	2	0.54	0.250	36	4.86				4.86	3.40	
0	2	4.04	0.250	18	18.18				18.18	12.73	
F S-SA N=12.87 A N=17.16	2	5.20	0.250	12	15.60				15.60	10.92	
0	-	-	-	-	-				-	-	
0	2	3.00	0.250	16	12.00				12.00	8.40	
FLEJE	2	0.24	0.250	72	4.32				4.32	3.02	
0	2	0.54	0.250	36	4.86				4.86	3.40	
0	2	4.04	0.250	18	18.18				18.18	12.73	
F S-SA N=17.16 A N=22.55	2	3.20	0.250	12	9.60				9.60	6.72	
0	-	-	-	-	-				-	-	
0	2	5.44	0.250	30	40.80				40.80	28.56	
FLEJE	2	0.24	0.250	114	6.84				6.84	4.79	
0	2	0.54	0.250	38	5.13				5.13	3.59	
0	2	4.04	0.250	19	19.19				19.19	13.43	
0	-	-	-	-	-				-	-	
158 F-E3 N=0.00 A N=4.29	2	5.80	0.250	6	8.70				8.70	6.09	
0	2	5.00	0.250	8	7.50				7.50	5.25	
0	2	5.80	0.250	15	26.10				26.10	18.27	

LOCALIZACION	AYUDA	ELEMENTOS			P. PARCIAL	VANOS	PESO	TOTAL	OBSERVACIONES
		LARGO	PESO	CANT.					
0	2	5.80	0.250	18	26.10		26.10	15.27	
0	-	-	-	-	-		-	-	
FLEJE	2	2.69	0.250	38	25.52		25.52	17.86	
0	2	0.48	0.250	38	4.56		4.56	3.19	
15B F-E3 N+4.29 A N+8.58	2	5.00	0.250	6	7.50		7.50	5.25	
0	2	5.40	0.250	6	8.10		8.10	5.67	
0	2	5.00	0.250	18	22.50		22.50	15.75	
0	2	5.00	0.250	18	22.50		22.50	15.75	
0	-	-	-	-	-		-	-	
FLEJE	2	2.69	0.250	38	25.52		25.52	17.86	
0	2	0.48	0.250	38	4.56		4.56	3.19	
15B F-E3 N+8.58 A N+12.87	2	4.20	0.250	6	6.30		6.30	4.41	
0	2	5.00	0.250	6	7.50		7.50	5.25	
0	2	5.00	0.250	18	22.50		22.50	15.75	
0	2	5.00	0.250	18	22.50		22.50	15.75	
0	-	-	-	-	-		-	-	
FLEJE	2	2.69	0.250	38	25.52		25.52	17.86	
0	2	0.48	0.250	38	4.56		4.56	3.19	
15B F-E3 N+12.87 A N+17.16	2	5.00	0.250	6	7.50		7.50	5.25	
0	2	4.60	0.250	6	6.90		6.90	4.83	
0	2	5.00	0.250	18	22.50		22.50	15.75	
0	2	5.00	0.250	18	22.50		22.50	15.75	
0	-	-	-	-	-		-	-	
FLEJE	2	2.69	0.250	38	25.52		25.52	17.86	
0	2	0.48	0.250	38	4.56		4.56	3.19	
15B F-E3 N+17.16 A N+22.45	2	3.70	0.250	6	5.55		5.55	3.89	
0	2	3.70	0.250	6	5.55		5.55	3.89	
0	2	2.90	0.250	18	13.05		13.05	9.14	
0	2	2.90	0.250	18	13.05		13.05	9.14	
0	-	-	-	-	-		-	-	
FLEJE	2	2.69	0.250	50	33.58		33.58	23.50	
0	2	0.48	0.250	250	30.00		30.00	21.00	
12A F-E N+0.00 A N+4.29	2	5.80	0.250	6	8.70		8.70	6.09	
0	2	5.00	0.250	6	7.50		7.50	5.25	
0	2	5.80	0.250	21	30.45		30.45	21.32	
0	2	5.80	0.250	21	30.45		30.45	21.32	
0	-	-	-	-	-		-	-	
FLEJE	2	4.29	0.250	38	40.76		40.76	28.53	
0	2	0.48	0.250	38	4.56		4.56	3.19	
12A F-E N+4.29 A N+8.58	2	5.00	0.250	6	7.50		7.50	5.25	
0	2	5.40	0.250	6	8.10		8.10	5.67	
0	2	5.00	0.250	21	26.25		26.25	18.38	
0	2	5.00	0.250	21	26.25		26.25	18.38	
0	-	-	-	-	-		-	-	
FLEJE	2	4.29	0.250	38	40.76		40.76	28.53	
0	2	0.48	0.250	38	4.56		4.56	3.19	
12A F-E N+8.58 A N+12.87	2	4.20	0.250	6	6.30		6.30	4.41	
0	2	5.00	0.250	6	7.50		7.50	5.25	
0	2	5.00	0.250	21	26.25		26.25	18.38	
0	2	5.00	0.250	21	26.25		26.25	18.38	
0	-	-	-	-	-		-	-	
FLEJE	2	4.29	0.250	38	40.76		40.76	28.53	
0	2	0.48	0.250	38	4.56		4.56	3.19	
12A F-E N+12.87 A N+17.16	2	5.00	0.250	6	7.50		7.50	5.25	
0	2	4.60	0.250	6	6.90		6.90	4.83	
0	2	5.00	0.250	21	26.25		26.25	18.38	
0	2	5.00	0.250	21	26.25		26.25	18.38	
0	-	-	-	-	-		-	-	
FLEJE	2	4.29	0.250	38	40.76		40.76	28.53	
0	2	0.48	0.250	38	4.56		4.56	3.19	
12A F-E N+17.16 A N+22.45	2	3.70	0.250	6	5.55		5.55	3.89	
0	2	3.70	0.250	6	5.55		5.55	3.89	
0	2	2.90	0.250	21	15.23		15.23	10.66	
0	2	2.90	0.250	21	15.23		15.23	10.66	
0	-	-	-	-	-		-	-	
FLEJE	2	4.29	0.250	50	53.63		53.63	37.54	
0	2	0.48	0.250	50	6.00		6.00	4.20	

LOCALIZACION	PUNTOS	HIERRO LARGO	HIERRO PESO	HIERRO CANT.	P. PARCIAL	VARIOS L x h	PESO	TOTAL	LOCALIZACION
E3 15B-16 N+0.00 A N+4.29	2	3.80	0.250	8	8.70		8.70	6.09	
0	2	5.00	0.250	6	7.50		7.50	5.25	
0	2	5.80	0.250	4	5.80		5.80	4.06	
0	2	5.50	0.250	4	5.50		5.83	4.08	
0	-	-	-	-	-		-	-	
FLEJE	2	3.71	0.250	15	13.91		13.91	9.73	
0	2	0.48	0.250	30	3.60		3.60	2.52	
E3 15B-16 N+4.29 A N+8.58	2	5.00	0.250	6	7.50		7.50	5.25	
0	2	5.40	0.250	6	8.10		8.10	5.67	
0	2	5.00	0.250	4	5.00		5.00	3.50	
0	2	5.00	0.250	4	5.00		5.00	3.50	
0	-	-	-	-	-		-	-	
FLEJE	2	3.71	0.250	15	13.91		13.91	9.73	
0	2	0.48	0.250	30	3.60		3.60	2.52	
E3 15B-16 N+8.58 A N+12.87	2	4.20	0.250	6	6.30		6.30	4.41	
0	2	5.00	0.250	6	7.50		7.50	5.25	
0	2	5.00	0.250	4	5.00		5.00	3.50	
0	2	5.00	0.250	4	5.00		5.00	3.50	
0	-	-	-	-	-		-	-	
FLEJE	2	3.71	0.250	15	13.91		13.91	9.73	
0	2	0.48	0.250	30	3.60		3.60	2.52	
E3 15B-16 N+12.87 A N+17.16	2	5.00	0.250	6	7.50		7.50	5.25	
0	2	4.60	0.250	6	6.90		6.90	4.83	
0	2	2.50	0.250	4	2.50		2.50	1.75	
0	2	2.50	0.250	4	2.50		2.50	1.75	
0	-	-	-	-	-		-	-	
FLEJE	2	3.71	0.250	15	13.91		13.91	9.73	
0	2	0.48	0.250	30	3.60		3.60	2.52	
E3 15B-16 N+17.16 A N+22.45	2	3.80	0.250	8	5.70		5.70	3.99	
0	2	3.80	0.250	8	5.70		5.70	3.99	
0	2	5.44	0.250	8	8.16		8.16	5.71	
0	2	5.44	0.250	8	8.16		8.16	5.71	
0	-	-	-	-	-		-	-	
FLEJE	2	3.71	0.250	19	17.81		17.81	12.33	
0	2	0.45	0.250	38	4.56		4.56	3.19	
D 15C-15CA N+0.00 A N+4.29	2	5.80	0.250	8	8.70		8.70	6.09	
0	2	5.00	0.250	6	7.50		7.50	5.25	
0	2	5.80	0.250	4	5.80		5.80	4.06	
0	2	5.80	0.250	4	5.80		5.80	4.06	
0	-	-	-	-	-		-	-	
FLEJE	2	3.71	0.250	15	13.91		13.91	9.73	
0	2	0.48	0.250	30	3.60		3.60	2.52	
D 15C-15CA N+4.29 A N+8.58	2	5.00	0.250	6	7.50		7.50	5.25	
0	2	5.40	0.250	6	8.10		8.10	5.67	
0	2	5.00	0.250	4	5.00		5.00	3.50	
0	2	5.00	0.250	4	5.00		5.00	3.50	
0	-	-	-	-	-		-	-	
FLEJE	2	3.71	0.250	15	13.91		13.91	9.73	
0	2	0.48	0.250	30	3.60		3.60	2.52	
D 15C-15CA N+8.58 A N+12.87	2	4.20	0.250	6	6.30		6.30	4.41	
0	2	5.00	0.250	6	7.50		7.50	5.25	
0	2	5.00	0.250	4	5.00		5.00	3.50	
0	2	5.00	0.250	4	5.00		5.00	3.50	
0	-	-	-	-	-		-	-	
FLEJE	2	3.71	0.250	15	13.91		13.91	9.73	
0	2	0.48	0.250	30	3.60		3.60	2.52	
D 15C-15CA N+12.87 A N+17.16	2	5.00	0.250	6	7.50		7.50	5.25	
0	2	4.60	0.250	6	6.90		6.90	4.83	
0	2	2.50	0.250	4	2.50		2.50	1.75	
0	2	2.50	0.250	4	2.50		2.50	1.75	
0	-	-	-	-	-		-	-	
FLEJE	2	3.71	0.250	15	13.91		13.91	9.73	
0	2	0.48	0.250	30	3.60		3.60	2.52	
D 15C-15CA N+17.16 A N+22.45	2	3.80	0.250	8	5.70		5.70	3.99	
0	2	3.80	0.250	8	5.70		5.70	3.99	
0	2	5.44	0.250	4	5.44		5.44	3.81	
0	2	5.44	0.250	4	5.44		5.44	3.81	

LOCALIZACIÓN	ÁNGULO	ELEMENTOS			A PARCIAL	VIGAS			PESO	TOTAL	LOCALIZACIÓN
		LARGO	PESO	CANT.		h	A	b			
0	-	-	-	-	-				-	-	
FLEJE	2	3.71	0.250	19	17.61				17.61	12.33	
0	2	0.48	0.250	38	4.56				4.56	3.19	
0	-	-	-	-	-				-	-	
E 12-12A N+0.00 A N+4.29	2	5.80	0.250	6	8.70				8.70	6.09	
0	2	5.00	0.250	6	7.50				7.50	5.25	
0	2	5.80	0.250	7	10.15				10.15	7.11	
0	2	5.80	0.250	7	10.15				10.15	7.11	
0	-	-	-	-	-				-	-	
FLEJE	2	3.89	0.250	18	17.50				17.50	12.25	
0	2	0.48	0.250	36	4.32				4.32	3.02	
E 12-12A N+4.29 A N+8.58	2	5.03	0.250	6	7.50				7.50	5.25	
0	2	5.40	0.250	6	8.10				8.10	5.67	
0	2	5.00	0.250	7	8.75				8.75	6.13	
0	2	5.00	0.250	7	8.75				8.75	6.13	
0	-	-	-	-	-				-	-	
FLEJE	2	3.89	0.250	18	17.50				17.50	12.25	
0	2	0.48	0.250	36	4.32				4.32	3.02	
E 12-12A N+8.58 A N+12.87	2	4.20	0.250	6	6.30				6.30	4.41	
0	2	3.00	0.250	6	4.50				4.50	3.15	
0	2	5.00	0.250	7	8.75				8.75	6.13	
0	2	5.00	0.250	7	8.75				8.75	6.13	
0	-	-	-	-	-				-	-	
FLEJE	2	3.89	0.250	18	17.50				17.50	12.25	
0	2	0.48	0.250	36	4.32				4.32	3.02	
E 12-12A N+12.87 A N+17.16	2	5.00	0.250	6	7.50				7.50	5.25	
0	2	4.60	0.250	6	6.90				6.90	4.83	
0	2	2.50	0.250	7	4.38				4.38	3.06	
0	2	2.50	0.250	7	4.38				4.38	3.06	
0	-	-	-	-	-				-	-	
FLEJE	2	3.89	0.250	36	34.99				34.99	24.49	
0	2	0.48	0.250	72	8.64				8.64	6.05	
E 12-12A N+17.16 A N+22.45	2	3.70	0.250	9	5.55				5.55	3.88	
0	2	3.70	0.250	6	5.55				5.55	3.89	
0	2	5.34	0.250	4	5.34				5.34	3.74	
0	2	5.34	0.250	4	5.34				5.34	3.74	
0	-	-	-	-	-				-	-	
FLEJE	2	3.89	0.250	18	15.55				15.55	10.89	
0	2	0.48	0.250	32	3.84				3.84	2.69	
F 15B-16 N+0.00 A N+4.29	2	5.80	0.250	6	8.70				8.70	5.09	
0	2	5.00	0.250	6	7.50				7.50	5.25	
0	2	5.80	0.250	7	10.15				10.15	7.11	
0	2	5.80	0.250	7	10.15				10.15	7.11	
0	-	-	-	-	-				-	-	
FLEJE	2	3.71	0.250	18	16.69				16.69	11.68	
0	2	0.48	0.250	36	4.32				4.32	3.02	
F 15B-16 N+4.29 A N+8.58	2	5.00	0.250	6	7.50				7.50	5.25	
0	2	5.40	0.250	6	8.10				8.10	5.67	
0	2	5.00	0.250	7	8.75				8.75	6.13	
0	2	5.00	0.250	7	8.75				8.75	6.13	
0	-	-	-	-	-				-	-	
FLEJE	2	3.71	0.250	18	16.69				16.69	11.68	
0	2	0.48	0.250	36	4.32				4.32	3.02	
F 15B-16 N+8.58 A N+12.87	2	4.20	0.250	6	6.30				6.30	4.41	
0	2	5.00	0.250	6	7.50				7.50	5.25	
0	2	5.00	0.250	7	8.75				8.75	6.13	
0	2	5.00	0.250	7	8.75				8.75	6.13	
0	-	-	-	-	-				-	-	
FLEJE	2	3.71	0.250	18	16.69				16.69	11.68	
0	2	0.48	0.250	36	4.32				4.32	3.02	
F 15B-16 N+12.87 A N+17.16	2	5.00	0.250	6	7.50				7.50	5.25	
0	2	4.60	0.250	6	6.90				6.90	4.83	
0	2	2.50	0.250	7	4.38				4.38	3.06	
0	2	2.50	0.250	7	4.38				4.38	3.06	
0	-	-	-	-	-				-	-	
FLEJE	2	3.71	0.250	18	16.69				16.69	11.68	
0	2	0.48	0.250	36	4.32				4.32	3.02	

LOCALIZACION	ESCALA	ELEMENTOS			P. UNIT.	VARIOS		PESO	TOTAL	OBSERVACION
		LARGO	PESO	CANT.						
F 150-18 N+17.16 A N+22.45	2	3.70	0.250	8	5.55			5.55	3.89	
0	2	3.70	0.250	8	5.55			5.55	3.89	
0	2	2.90	0.250	6	4.35			4.35	3.05	
0	2	5.34	0.250	28	37.38			37.38	25.17	
0	2	5.00	0.250	6	7.50			7.50	5.25	
0	-	-	-	-	-			-	-	
FLEJE	2	3.71	0.250	24	22.25			22.25	15.67	
0	2	0.48	0.250	48	5.76			5.76	4.03	
F 12-12A N+0.00 A N+4.29	2	5.80	0.250	6	8.70			8.70	6.09	
0	2	5.00	0.250	6	7.50			7.50	5.25	
0	2	5.80	0.250	6	8.70			8.70	6.09	
0	2	5.80	0.250	6	8.70			8.70	6.09	
FLEJE	2	0.21	0.250	96	5.04			5.04	3.53	
0	2	0.48	0.250	48	5.76			5.76	4.03	
0	2	5.10	0.250	24	30.60			30.60	21.42	
F 12-12A N+4.29 A N+8.58	2	5.00	0.250	6	7.50			7.50	5.25	
0	2	5.40	0.250	6	8.10			8.10	5.67	
0	2	5.00	0.250	6	7.50			7.50	5.25	
0	2	5.00	0.250	6	7.50			7.50	5.25	
FLEJE	2	0.21	0.250	96	5.04			5.04	3.53	
0	2	0.48	0.250	48	5.76			5.76	4.03	
0	2	5.10	0.250	24	30.60			30.60	21.42	
F 12-12A N+8.58 A N+12.87	2	4.20	0.250	6	6.30			6.30	4.41	
0	2	5.00	0.250	6	7.50			7.50	5.25	
0	2	5.00	0.250	6	7.50			7.50	5.25	
0	2	5.00	0.250	6	7.50			7.50	5.25	
FLEJE	2	0.21	0.250	96	5.04			5.04	3.53	
0	2	0.48	0.250	48	5.76			5.76	4.03	
0	2	5.10	0.250	24	30.60			30.60	21.42	
F 12-12A N+12.87 A N+17.16	2	5.00	0.250	6	7.50			7.50	5.25	
0	2	4.60	0.250	6	6.90			6.90	4.83	
0	2	5.00	0.250	6	7.50			7.50	5.25	
0	2	5.00	0.250	6	7.50			7.50	5.25	
FLEJE	2	0.21	0.250	96	5.04			5.04	3.53	
0	2	0.48	0.250	48	5.76			5.76	4.03	
0	2	5.10	0.250	24	30.60			30.60	21.42	
F 12-12A N+17.16 A N+22.45	2	3.70	0.250	8	5.55			5.55	3.89	
0	2	3.70	0.250	8	5.55			5.55	3.89	
0	2	2.90	0.250	6	4.35			4.35	3.05	
0	2	2.90	0.250	6	4.35			4.35	3.05	
FLEJE	2	0.21	0.250	128	6.72			6.72	4.70	
0	2	0.48	0.250	64	7.68			7.68	5.38	
0	2	5.10	0.250	32	40.80			40.80	28.56	
E3 12-12A N+0.00 A N+4.29	2	5.80	0.250	6	8.70			8.70	6.09	
0	2	5.00	0.250	6	7.50			7.50	5.25	
0	2	5.80	0.250	6	8.70			8.70	6.09	
0	2	5.80	0.250	6	8.70			8.70	6.09	
0	-	-	-	-	-			-	-	
FLEJE	2	1.82	0.250	28	12.74			12.74	8.92	
0	2	0.48	0.250	28	3.36			3.36	2.35	
E3 12-12A N+4.29 A N+8.58	2	5.00	0.250	6	7.50			7.50	5.25	
0	2	5.40	0.250	6	8.10			8.10	5.67	
0	2	5.00	0.250	6	7.50			7.50	5.25	
0	2	5.00	0.250	6	7.50			7.50	5.25	
0	-	-	-	-	-			-	-	
FLEJE	2	1.82	0.250	28	12.74			12.74	8.92	
0	2	0.48	0.250	28	3.36			3.36	2.35	
E3 12-12A N+8.58 A N+12.87	2	4.20	0.250	6	6.30			6.30	4.41	
0	2	5.00	0.250	6	7.50			7.50	5.25	
0	2	5.00	0.250	6	7.50			7.50	5.25	
0	2	5.00	0.250	6	7.50			7.50	5.25	
0	-	-	-	-	-			-	-	
FLEJE	2	1.82	0.250	28	12.74			12.74	8.92	
0	2	0.48	0.250	28	3.36			3.36	2.35	
E3 12-12A N+12.87 A N+17.16	2	5.00	0.250	6	7.50			7.50	5.25	
0	2	4.60	0.250	6	6.90			6.90	4.83	
0	2	5.00	0.250	6	7.50			7.50	5.25	

LOCALIZACION	#VARILLA	ELEMENTOS			LONGITUD	VANOS		PESO	TOTAL	LOCALIZACION
		LARGO	PESO	CANT						
0	2	5.00	0.250	6	7.50			7.50	5.25	
0	-	-	-	-	-			-	-	
FLEJE	2	1.82	0.250	28	12.74			12.74	8.92	
0	2	0.48	0.250	28	3.36			3.36	2.35	
E3 12-12A N+17.16 A N+22.45	2	3.70	0.250	6	5.55			5.55	3.89	
0	2	3.70	0.250	6	5.55			5.55	3.88	
0	2	2.90	0.250	6	4.35			4.35	3.05	
0	2	2.90	0.250	6	4.35			4.35	3.05	
0	-	-	-	-	-			-	-	
FLEJE	2	1.82	0.250	36	16.38			16.38	11.47	
0	2	0.48	0.250	36	4.32			4.32	3.02	
0	-	-	-	-	-			-	-	
EJE 20A N+0.00 A N+4.29	3	3.70	0.390	2	4.14			4.14	2.90	
0	3	6.20	0.390	2	6.94			6.94	4.86	
0	3	5.20	0.390	7	24.30			24.30	17.01	
0	-	-	-	-	-			-	-	
FLEJE	3	0.57	0.590	28	8.94			8.94	6.26	
0	3	2.24	0.560	14	17.56			17.56	12.29	
0	-	-	-	-	-			-	-	
EJE 20A N+4.29 A N+8.58	3	4.00	0.390	2	4.45			4.45	3.14	
0	3	4.00	0.390	2	4.45			4.45	3.14	
0	3	6.00	0.390	7	19.50			19.50	13.72	
0	-	-	-	-	-			-	-	
FLEJE	3	0.57	0.560	28	8.94			8.94	6.26	
0	3	2.24	0.560	14	17.56			17.56	12.29	
0	-	-	-	-	-			-	-	
EJE 20A N+8.58 A N+12.87	3	4.20	0.560	2	4.70			4.70	3.29	
0	3	6.00	0.560	2	6.72			6.72	4.70	
0	3	5.10	0.560	7	19.99			19.99	13.99	
0	-	-	-	-	-			-	-	
FLEJE	3	0.57	0.560	28	8.94			8.94	6.26	
0	3	2.24	0.560	14	17.56			17.56	12.29	
0	-	-	-	-	-			-	-	
EJE 20A N+12.87 A N+17.06	3	4.00	0.560	2	4.48			4.48	3.14	
0	3	3.10	0.560	2	3.47			3.47	2.43	
0	3	4.10	0.560	2	4.59			4.59	3.21	
0	3	3.10	0.560	7	12.15			12.15	8.51	
0					-				-	
FLEJE	3	0.57	0.560	28	8.94			8.94	6.26	
0	3	2.24	0.560	14	17.56			17.56	12.29	
0					-				-	
EJE E3' N+0.00 A N+4.29	3	3.80	0.560	2	4.26			4.26	2.98	
0	3	6.20	0.560	2	6.94			6.94	4.86	
0	3	6.20	0.560	5	17.36			17.36	12.15	
0					-				-	
FLEJE	3	0.57	0.560	28	8.94			8.94	6.26	
0	3	1.86	0.560	14	14.56			14.56	10.21	
0	-	-	-	-	-			-	-	
EJE E3' N+4.29 A N+8.58	3	4.00	0.560	2	4.48			4.48	3.14	
0	3	4.00	0.560	2	4.48			4.48	3.14	
0	3	5.00	0.560	5	14.00			14.00	9.80	
0					-			-	-	
FLEJE	3	0.57	0.560	28	8.94			8.94	6.26	
0	3	1.86	0.560	14	14.56			14.56	10.21	
0					-			-	-	
EJE E3' N+8.58 A N+12.87	3	4.10	0.560	2	4.59			4.59	3.21	
0	3	6.00	0.560	2	6.72			6.72	4.70	
0	3	5.00	0.560	5	14.00			14.00	9.80	
0					-			-	-	
FLEJE	3	0.57	0.560	28	8.94			8.94	6.26	
0	3	1.86	0.560	14	14.56			14.56	10.21	
0					-			-	-	
EJE E3' N+12.87 A N+17.06	3	4.00	0.560	2	4.48			4.48	3.14	
0	3	3.10	0.560	2	3.47			3.47	2.43	
0	3	4.10	0.560	2	4.59			4.59	3.21	
0	3	3.10	0.560	5	8.68			8.68	6.08	
0					-			-	-	

LOCALIZACION	REPETICION	ELEMENTOS			PARCIAL	VARIOS	PESO	TOTAL	LOCALIZACION
		LARGO	PESO	CANT					
FLEJE	3	0.57	0.580	28	8.94		8.94	8.26	
0	3	1.56	0.580	14	14.58		14.58	10.21	
0					-		-	-	
EJE F N+0.00 A N+4.29	4	0.40	0.994	4	25.45		25.45	17.81	
0	4	3.70	0.994	4	14.71		14.71	10.30	
0	3	6.20	0.580	12	41.66		41.66	29.16	
0	3	6.20	0.580	12	41.66		41.66	29.16	
0	-	-	-	-	-		-	-	
FLEJE	3	5.62	0.580	28	81.83		81.83	57.28	
0	3	0.38	0.580	159	33.20		33.20	23.24	
EJE F N+4.29 A N+8.53	4	4.00	0.994	4	15.90		15.90	11.13	
0	4	4.00	0.994	4	15.90		15.90	11.13	
0	3	5.00	0.580	12	33.60		33.60	23.52	
0	3	5.00	0.580	12	33.60		33.60	23.52	
0					-		-	-	
FLEJE	3	5.62	0.580	28	81.83		81.83	57.28	
0	3	0.38	0.580	159	33.20		33.20	23.24	
EJE F N+8.56 A N+12.67	4	4.00	0.994	4	18.29		18.29	12.80	
0	4	3.20	0.994	4	12.72		12.72	8.91	
0	4	4.30	0.994	4	17.10		17.10	11.97	
0	3	3.20	0.580	12	21.50		21.50	15.05	
0	3	3.20	0.580	12	21.50		21.50	15.05	
FLEJE	3	5.62	0.580	28	81.83		81.83	57.28	
0	3	0.38	0.580	156	33.20		33.20	23.24	
EJE F N+12.67 A N+17.06	5	4.40	1.552	8	54.63		54.63	38.24	
0	5	3.80	1.552	8	47.18		47.18	33.03	
0	3	5.92	0.580	14	54.80		54.80	38.36	
0					-		-	-	
FLEJE	3	1.99	0.580	30	55.44		55.44	38.81	
0	3	0.67	0.580	300	112.58		112.58	78.79	
PLACA CONTRAPISO							-	-	
PARRILLA H.V	4	12.00	0.994	192	2,290.18		2,290.18	1,603.12	
H-V	4	8.00	0.994	16	95.42		95.42	66.80	
0	-	-	-	-	-		-	-	
PARRILLA H.H	4	9.00	0.994	126	1,127.20		1,127.20	789.04	
VIGUNTER	4	6.00	0.994	76	453.26		453.26	317.28	
0	-	-	-	-	-		-	-	
							-	-	
PARRILLA PLACA ASCENSOR M3 EJE 12	3	1.65	0.560	24	22.18		22.18	22.18	
	3	1.65	0.560	24	22.18		22.18	22.18	
	3	0.90	0.560	48	16.13		16.13	16.13	
PARRILLA PLACA ASCENSOR M3 EJE 18	3	1.65	0.560	12	11.09		11.09	11.09	
	3	1.65	0.560	12	11.09		11.09	11.09	
	3	0.60	0.560	24	8.06		8.06	8.06	
PARRILLA PLACA ASCENSOR M4 EJE 20A	3	1.43	0.560	12	9.61		9.61	9.61	
	3	1.65	0.560	10	9.24		9.24	9.24	
	3	0.60	0.560	22	7.39		7.39	7.39	
PARRILLA PLACA ASCENSOR M1 EJE 5	3	1.90	0.560	15	15.96		15.96	15.96	
	3	1.65	0.560	12	11.09		11.09	11.09	
	3	0.60	0.560	27	9.07		9.07	9.07	
VIGAS DE CIMENTACION					-		-	-	
EJE 15:18.17-F	4	2.00	0.994	4	7.95		7.95	7.95	
EJE 19:20-F	6	2.36	2.235	2	10.55		10.55	10.55	
EJE 20:21-D	5	3.30	1.552	1	5.12		5.12	5.12	
EJE 20:21-D	6	2.53	2.235	6	33.93		33.93	33.93	
MURO EJE 15:18-E:F	6	3.63	2.235	6	48.68		48.68	48.68	
EJE 20:21-F:E	3	1.90	0.560	1	1.06		1.06	1.06	
EJE 21-A:F	3	6.00	0.560	8	26.88		26.88	26.88	
MURO EJE 20:21	3	6.00	0.560	12	40.32		40.32	40.32	
EJE 21-E:F	6	5.70	0.560	1	3.19		3.19	3.19	
	6	2.60	0.560	1	1.46		1.46	1.46	
	6	7.00	0.560	5	19.60		19.60	19.60	
EJE 12:13	3	12.00	0.560	2	13.44		13.44	13.44	
EJE F-13:20	3	12.00	0.560	8	53.76		53.76	53.76	
EJE B-15:16	6	2.70	2.235	2	12.07		12.07	12.07	

UBICACIÓN	# VECES IGUAL	ELEMENTOS			# PARCIAL	VARIOS			PESO	TOTAL	ACLARACIÓN
		LARGO	PESO	CANT.		L	B	A			
EJE B-18:19	5	1.40	1.552	2	4.35				4.35	4.35	
EJE B-0:15	3	12.00	0.560	3	20.16				20.16	20.16	
MURO EJE B	3	12.00	0.560	1	6.72				6.72	6.72	
EJE 12-D:F	6	2.85	2.235	6	38.22				38.22	38.22	
EJE D-12:18	5	3.90	1.552	4	24.21				24.21	24.21	
EJE 13-D	4	8.00	0.994	5	29.82				29.82	29.82	
EJE 12-D:F	3	12.00	0.560	2	13.44				13.44	13.44	
EJE A -14:16	3	12.00	0.560	2	13.44				13.44	13.44	
					-				-	-	
					-				-	-	
ZARPA MODULO 1 EJE 3:4	5	1.55	1.552	5	14.43				14.43	14.43	
	3	2.15	0.560	5	9.61				9.61	9.61	
	3	1.55	0.560	18	15.62				15.62	15.62	
	9	2.42	2.235	6	43.27				43.27	43.27	
	5	1.55	1.552	4	9.62				9.62	9.62	
	5	0.65	1.552	10	10.09				10.09	10.09	
	6	3.02	2.235	8	54.00				54.00	54.00	
ZARPA MODULO 3 EJE 11:12					-				-	-	
	5	1.65	1.552	6	17.23				17.23	17.23	
	3	2.15	0.560	9	10.81				10.81	10.81	
	3	1.65	0.560	18	18.65				18.65	18.66	
	6	2.42	2.235	9	48.58				48.58	48.58	
	5	1.65	1.552	4	11.48				11.48	11.48	
	5	0.65	1.552	12	12.11				12.11	12.11	
	6	3.02	2.235	9	60.75				60.75	60.75	
ZARPA MODULO 4 EJE 17.18					-				-	-	
	5	1.55	1.552	6	14.43				14.43	14.43	
	3	2.15	0.560	8	9.61				9.61	9.61	
	3	1.55	0.560	18	15.62				15.62	15.62	
	6	2.42	2.235	6	43.27				43.27	43.27	
	5	1.55	1.552	4	9.62				9.62	9.62	
	5	0.65	1.552	10	10.09				10.09	10.09	
	6	3.02	2.235	8	54.00				54.00	54.00	
ZARPA MODULO 4 EJE 20A21					-				-	-	
	5	1.35	1.552	6	12.57				12.57	12.57	
	3	2.15	0.560	7	8.41				8.41	8.41	
	3	1.35	0.560	18	13.61				13.61	13.61	
	6	2.42	2.235	7	37.86				37.86	37.86	
	5	1.35	1.552	4	8.38				8.38	8.38	
	5	0.65	1.552	9	9.08				9.08	9.08	
	6	3.02	2.235	7	47.25				47.25	47.25	
					-				-	-	
ACERO PLACA ENTRE PISO	4	9.00	0.994	5.000	44,730.00				44,730.00	44,730.00	
	3	9.00	0.560	1.360	6,853.60				6,853.60	6,853.60	
					-				-	-	
					-				-	-	
					-				-	-	
SUB TOTAL										132,421.36	Observaciones:
RESUMEN											LOS ACEROS DE LAS COLUMNAS SE PASAN A UN 70% DEBIDO A LO EJECUTADO Y PUESTO EN OBRA EN SU TOTALIDAD
TOTAL											

MEMORIAS CANTIDADES DE OBRA

CONTRATISTA
ING JORGE OLIVOS AREVALO
RESIDENTE DE OBRA

CONTRATISTA
ING JOHN JAIRO BONILLA ARIAS
DIRECTOR DE OBRA

INTERVENTORIA
ARQ LUIS FRANCISCO ÁVILA LOPEZ
DIRECTOR DE INTERVENTORIA

INTERVENTORÍA
ING DIEGO PARRA TORRES
RESIDENTE ESTRUCTURAL

17/09

"CONSTRUCCION Y DOTACION DE LA PRIMERA FASE DEL COMANDO METROPOLITANA DE POLICIA VALLEDUPAR, A PRECIOS UNITARIOS FIJOS SIN FORMULA DE REAJUSTE"	MEMORIA CANTIDADES DE OBRA	
PROYECTO:		

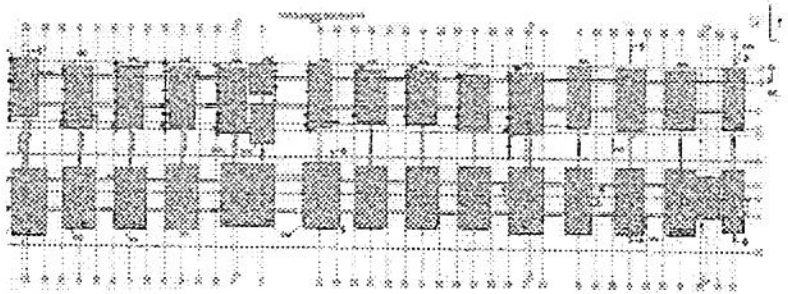
CONTRATISTA	CONSORCIO OBRAS POLICIA 2020	FECHA	DIA 23	MES 4	AÑO 2021
INTERVENTORÍA	CONSORCIO ARQ MARTINEZ	CONTRATO OBRA No.	08-6-10142-20		
		CONTRATO INTERV. No.	08-3-10144-20		

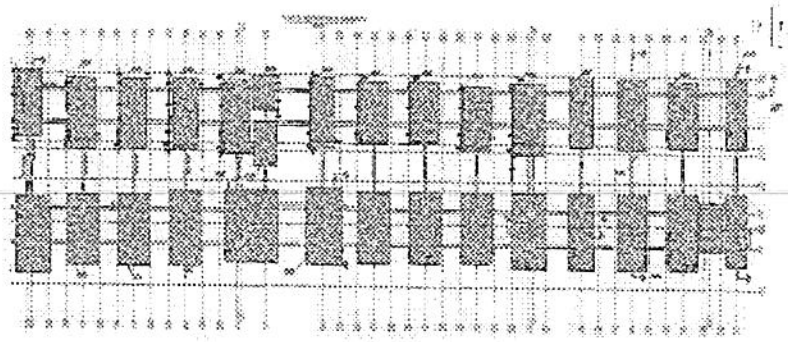
CAPITULO:	OBRAS EN CONCRETO Y ACEROS DE REFUERZO	HOJA	5

ITEM:	ACERO DE REFUERZO PDR-60; fy=420 Mpa PARA CIMENTACIÓN Y ESTRUCTURAS DE CONCRETO. INCLUYE SUMINISTRO, TRANSPORTE, FIGURADO E INSTALACIÓN	UNID:	KG	REF	5.12

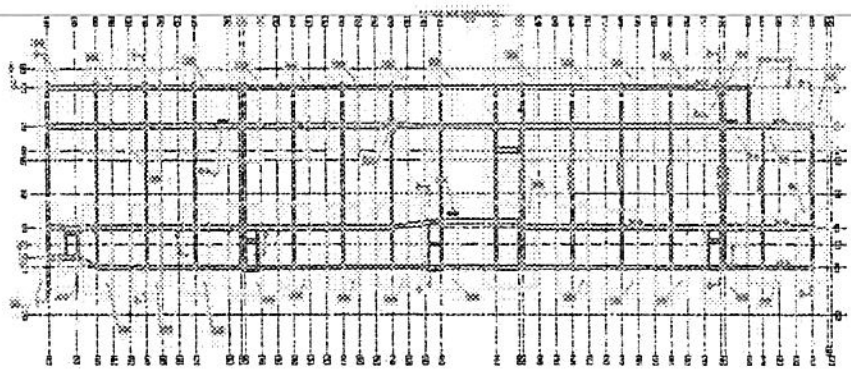
LOCALIZACION	EVENTOS	ELEMENTOS			PARCIAL	VARIOS			PESO	TOTAL
		CANTID	PESO	CANT						
ZAPATAS									-	-
ZAP T6									-	-
	6	5.90	2.235	5	65.93				65.93	65.93
									-	-
ZAP T8 EJE 8									-	-
	6	3.00	2.235	9	60.35				60.35	60.35
									-	-
ZAP T8 EJE 7									-	-
	6	3.00	2.235	9	60.35				60.35	60.35
									-	-
ZAP T10									-	-
	6	4.40	2.235	6	59.00				59.00	59.00
	6	3.00	2.235	6	40.23				40.23	40.23
									-	-
ZAP T17									-	-
	6	5.40	2.235	5	60.35				60.35	60.35
									-	-
ZAP T18									-	-
	6	5.40	2.235	6	72.41				72.41	72.41
									-	-
ZAP T19									-	-
	6	5.90	2.235	4	52.75				52.75	52.75
									-	-
ZAP T20									-	-
	5	4.50	2.235	6	60.35				60.35	60.35
									-	-
ZAP T24									-	-
	6	4.40	2.235	6	59.00				59.00	59.00
									-	-
ZAP T25									-	-
	6	4.50	2.235	5	50.29				50.29	50.29
									-	-
ZAP T26									-	-
	5	4.50	2.235	6	60.35				60.35	60.35
	6	3.00	2.235	3	20.12				20.12	20.12
									-	-
ZAP T27									-	-
	5	3.00	2.235	6	53.64				53.64	53.64
									-	-
ZAP T28									-	-
	6	4.50	2.235	7	70.40				70.40	70.40
	6	3.00	2.235	3	20.12				20.12	20.12
									-	-
ZAP T29									-	-
	6	5.90	2.235	6	79.12				79.12	79.12
									-	-
ZAP T30									-	-
	6	3.00	2.235	6	53.64				53.64	53.64
									-	-

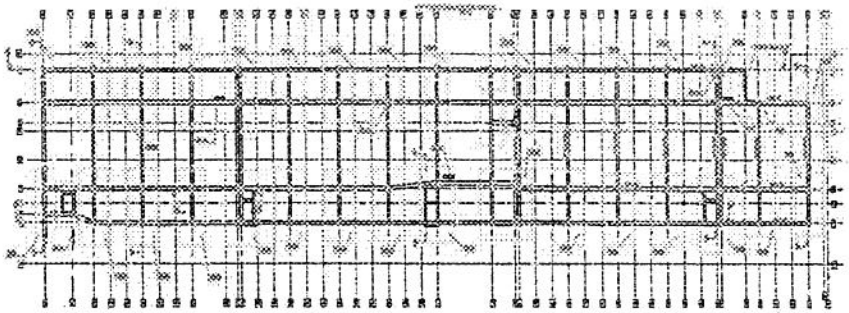
LOCALIZACIÓN



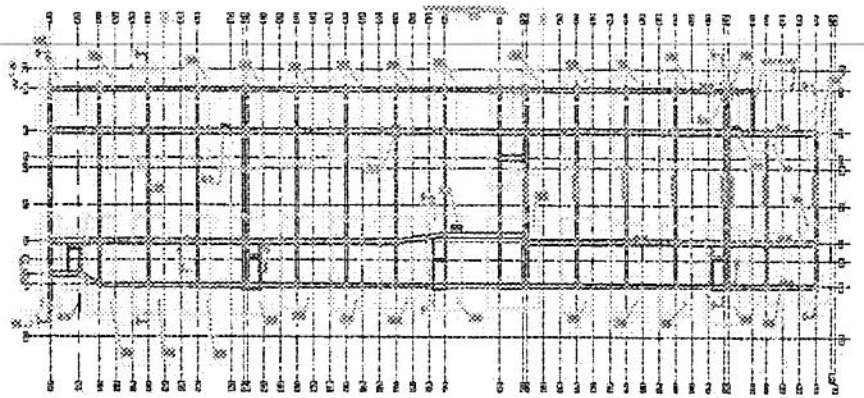


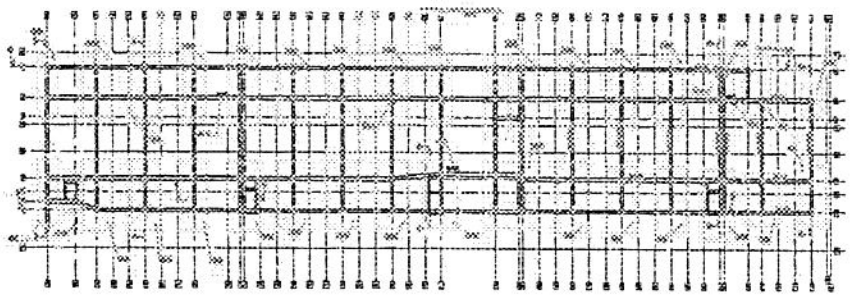
ZAP T31							-	-
	6	3.00	2.235	8	53.64		53.64	53.64
							-	-
ARRANQUE DE COLUMNAS							-	-
P B1	7	5.40	3.042	2	32.85		32.85	32.85
	7	9.70	3.042	2	59.01		59.01	59.01
	6	5.15	2.235	10	115.10		115.10	115.10
	6	9.45	2.235	10	211.21		211.21	211.21
FLEJE	3	2.28	0.560	17	21.71		21.71	21.71
	3	0.74	0.560	69	28.18		28.18	28.18
							-	-
P E1	7	5.40	3.042	8	131.41		131.41	131.41
	7	9.70	3.042	38	1 082.27		1 082.27	1 082.27
FLEJE	3	2.08	0.560	17	25.51		25.51	25.51
	3	0.74	0.560	85	35.22		35.22	35.22
	3	0.84	0.560	68	35.80		35.80	35.80
							-	-
P F1	7	5.40	3.042	12	197.12		197.12	197.12
	7	9.70	3.042	12	354.09		354.09	354.09
FLEJE	3	2.28	0.560	17	21.71		21.71	21.71
	3	0.74	0.560	68	28.18		28.18	28.18
							-	-
P B2	6.00	8.00	3.973	12	286.06		286.06	286.06
	6.00	13.00	3.973	12	476.76		476.76	476.76
FLEJE	3.00	2.28	0.560	17	21.71		21.71	21.71
	3.00	0.74	0.560	68	28.18		28.18	28.18
							-	-
P E2	7	5.40	3.042	14	229.98		229.98	229.98
	7	9.70	3.042	13	383.60		383.60	383.60
	6	5.15	2.235	6	69.06		69.06	69.06
	5	9.45	2.235	6	126.72		126.72	126.72
FLEJE	3	2.28	0.560	17	21.71		21.71	21.71
	3	0.74	0.560	136	56.36		56.36	56.36
							-	-
P F2	6	5.70	3.973	12	271.75		271.75	271.75
	6	9.90	3.973	12	471.99		471.99	471.99
FLEJE	3	2.28	0.560	17	21.71		21.71	21.71
	3	0.74	0.560	68	28.18		28.18	28.18
					-		-	-
P A4	6	5.70	3.973	5	113.23		113.23	113.23
	6	10.00	3.973	5	198.65		198.65	198.65
FLEJE	3	0.54	0.560	34	10.28		10.28	10.28
	3	0.74	0.560	17	7.04		7.04	7.04
	3	1.88	0.56	17	17.90		17.90	17.90
					-		-	-
P B4	7	5.40	3.042	4	65.71		65.71	65.71
	6	5.15	2.235	12	138.12		138.12	138.12
FLEJE	3	0.74	0.560	68	28.18		28.18	28.18
	3	2.28	0.560	17	21.71		21.71	21.71
					-		-	-
P E4	7	5.40	3.042	10	164.27		164.27	164.27
	7	9.70	3.042	10	295.07		295.07	295.07
FLEJE	3	0.74	0.560	68	28.18		28.18	28.18
	3	2.28	0.560	17	21.71		21.71	21.71
					-		-	-
P F4	7	5.40	3.042	2	32.85		32.85	32.85
	7	9.70	3.042	2	59.01		59.01	59.01
	6	5.15	2.235	4	46.04		46.04	46.04
	6	9.45	2.235	4	84.48		84.48	84.48
FLEJE	3	0.74	0.560	68	28.18		28.18	28.18
	3	2.28	0.560	17	21.71		21.71	21.71
					-		-	-
P A5	7	5.40	3.042	8	131.41		131.41	131.41
	7	9.00	3.042	8	219.02		219.02	219.02
FLEJE	3	0.74	0.560	68	28.18		28.18	28.18
	3	2.28	0.560	17	21.71		21.71	21.71
					-		-	-



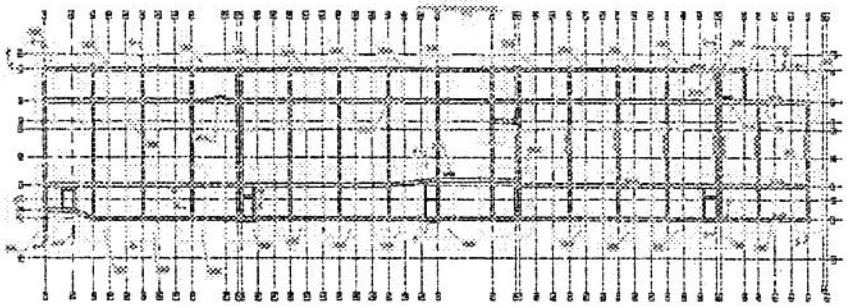


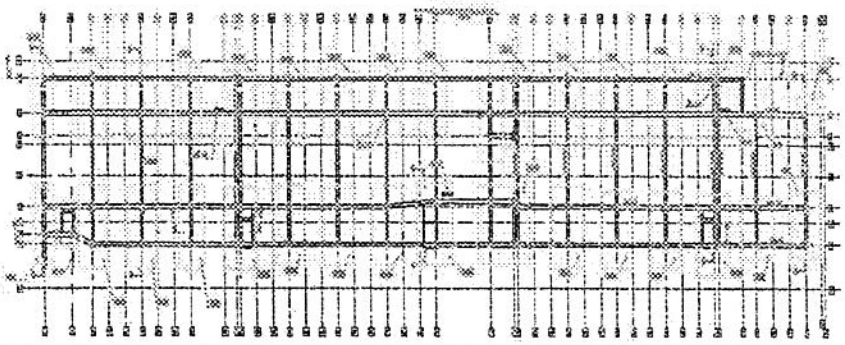
P B5	7	5.40	3.042	10	164.27		164.27	164.27
	7	8.99	3.042	10	273.48		273.48	273.48
FLEJE	3	0.74	0.560	68	28.18		28.18	28.18
	3	2.28	0.560	17	21.71		21.71	21.71
					-		-	-
P E5	7	5.40	3.042	8	131.41		131.41	131.41
	7	9.00	3.042	8	219.02		219.02	219.02
FLEJE	3	0.74	0.560	68	28.18		28.18	28.18
	3	2.28	0.560	17	21.71		21.71	21.71
					-		-	-
P F5	7	5.40	3.042	10	164.27		164.27	164.27
	7	8.99	3.042	10	273.48		273.48	273.48
FLEJE	3	0.74	0.560	68	28.18		28.18	28.18
	3	2.29	0.560	17	21.71		21.71	21.71
					-		-	-
P A6	6	5.70	3.973	11	249.11		249.11	249.11
	8	10.00	3.973	11	437.03		437.03	437.03
FLEJE	3	2.08	0.560	17	19.84		19.84	19.84
					-		-	-
P B6	8	5.70	3.973	8	181.17		181.17	181.17
	8	10.00	3.973	8	317.84		317.84	317.84
FLEJE	3	0.74	0.560	68	28.18		28.18	28.18
	3	2.28	0.560	17	21.71		21.71	21.71
					-		-	-
P E6	8	5.70	3.973	8	181.17		181.17	181.17
	8	10.00	3.973	8	317.84		317.84	317.84
FLEJE	3	0.74	0.560	68	28.18		28.18	28.18
	3	2.28	0.560	17	21.71		21.71	21.71
					-		-	-
P F6	8	5.70	3.973	11	249.11		249.11	249.11
	8	10.00	3.973	11	437.03		437.03	437.03
FLEJE	3	2.08	0.560	17	19.84		19.84	19.84
					-		-	-
P A7	8	5.70	3.973	11	249.11		249.11	249.11
	8	10.00	3.973	11	437.03		437.03	437.03
FLEJE	3	2.08	0.560	17	19.84		19.84	19.84
					-		-	-
P B7	7	5.40	3.042	10	164.27		164.27	164.27
	7	8.99	3.042	10	273.48		273.48	273.48
FLEJE	3	0.74	0.560	68	28.18		28.18	28.18
	3	2.28	0.560	17	21.71		21.71	21.71
					-		-	-
P E7	8	5.70	3.973	8	181.17		181.17	181.17
	8	10.00	3.973	8	317.84		317.84	317.84
FLEJE	3	0.74	0.560	68	28.18		28.18	28.18
	3	2.28	0.560	17	21.71		21.71	21.71
					-		-	-
P F7	8	5.70	3.973	11	249.11		249.11	249.11
	8	10.00	3.973	11	437.03		437.03	437.03
FLEJE	3	2.08	0.560	17	19.84		19.84	19.84
					-		-	-
P A8	8	5.70	3.973	11	249.11		249.11	249.11
	8	10.00	3.973	11	437.03		437.03	437.03
FLEJE	3	2.08	0.560	17	19.84		19.84	19.84
					-		-	-
P B8	7	5.40	3.042	10	164.27		164.27	164.27
	7	8.99	3.042	10	273.48		273.48	273.48
FLEJE	3	0.74	0.560	68	28.18		28.18	28.18
	3	2.28	0.560	17	21.71		21.71	21.71
					-		-	-
P E8	8	5.70	3.97	8	181.17		181.17	181.17
	8	10.00	3.97	8	317.84		317.84	317.84
FLEJE	3	0.74	0.56	68	28.18		28.18	28.18
	3	2.28	0.56	17	21.71		21.71	21.71
					-		-	-
P F8	8	5.70	3.973	11	249.11		249.11	249.11
	8	10.00	3.973	11	437.03		437.03	437.03



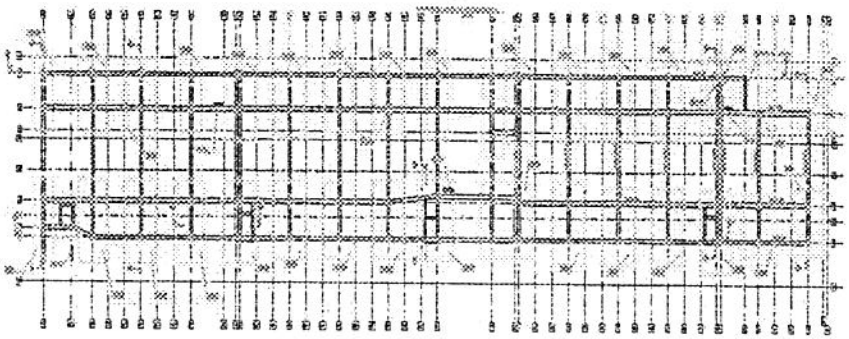


FLEJE	3	2.08	0.560	17	19.84		19.84	19.84
					-		-	-
P A9	6	5.15	2.235	12	138.12		138.12	138.12
	6	8.94	2.235	12	239.77		239.77	239.77
FLEJE	3	0.74	0.560	68	28.18		28.18	28.18
	3	2.28	0.560	17	21.71		21.71	21.71
					-		-	-
P B9	7	5.40	3.042	8	131.41		131.41	131.41
	7	9.00	3.042	8	219.02		219.02	219.02
FLEJE	3	0.74	0.560	68	28.18		28.18	28.18
	3	2.28	0.560	17	21.71		21.71	21.71
					-		-	-
P E9	7	5.40	3.042	10	164.27		164.27	164.27
	7	8.99	3.042	10	273.48		273.48	273.48
FLEJE	3	0.74	0.560	68	28.18		28.18	28.18
	3	2.28	0.560	17	21.71		21.71	21.71
					-		-	-
P F9	8	5.70	3.973	8	181.17		181.17	181.17
	8	10.00	3.973	8	317.84		317.84	317.84
FLEJE	3	0.74	0.560	68	28.18		28.18	28.18
	3	2.28	0.560	17	21.71		21.71	21.71
					-		-	-
P A10	8	5.00	3.973	6	143.03		143.03	143.03
	8	10.00	3.973	6	238.38		238.38	238.38
FLEJE	3	0.74	0.560	68	28.18		28.18	28.18
	3	2.28	0.560	17	21.71		21.71	21.71
					-		-	-
P C10	7	10.00	3.042	8.00	243.36		243.36	243.36
	6	8.00	2.235	8.00	107.28		107.28	107.28
FLEJE	3	0.74	0.560	68.00	28.18		28.18	28.18
	3	2.28	0.560	17.00	21.71		21.71	21.71
					-		-	-
P D10	8	5.70	3.97	8	135.88		135.88	135.88
	8	10.00	3.97	8	238.38		238.38	238.38
FLEJE	3	0.74	0.56	68	28.18		28.18	28.18
	3	2.28	0.56	17	21.71		21.71	21.71
					-		-	-
P F10	7	5.40	3.042	8	131.41		131.41	131.41
	7	9.00	3.042	8	219.02		219.02	219.02
FLEJE	3	0.74	0.560	68	28.18		28.18	28.18
	3	2.28	0.560	17	21.71		21.71	21.71
					-		-	-
P A11	8	5.70	3.973	6	135.88		135.88	135.88
	8	10.00	3.973	6	238.38		238.38	238.38
FLEJE	3	0.74	0.560	68	28.18		28.18	28.18
	3	2.28	0.560	17	21.71		21.71	21.71
					-		-	-
P C11	8	5.70	3.973	6	135.88		135.88	135.88
	8	10.00	3.973	6	238.38		238.38	238.38
FLEJE	3	0.74	0.560	68	28.18		28.18	28.18
	3	2.28	0.560	17	21.71		21.71	21.71
					-		-	-
P D11	8	5.70	3.973	12	271.75		271.75	271.75
	8	9.00	3.973	8	286.06		286.06	286.06
FLEJE	3	0.74	0.560	68	28.18		28.18	28.18
	3	2.28	0.560	17	21.71		21.71	21.71
					-		-	-
P F11	8	5.70	3.973	14	317.05		317.05	317.05
	8	10.00	3.973	6	238.38		238.38	238.38
FLEJE	3	0.74	0.560	68	28.18		28.18	28.18
	3	2.28	0.560	17	21.71		21.71	21.71
					-		-	-
P A12	7	5.40	3.042	8	131.41		131.41	131.41
	7	10.00	3.042	8	243.36		243.36	243.36
FLEJE	3	0.74	0.560	68	28.18		28.18	28.18
	3	2.28	0.560	17	21.71		21.71	21.71
					-		-	-

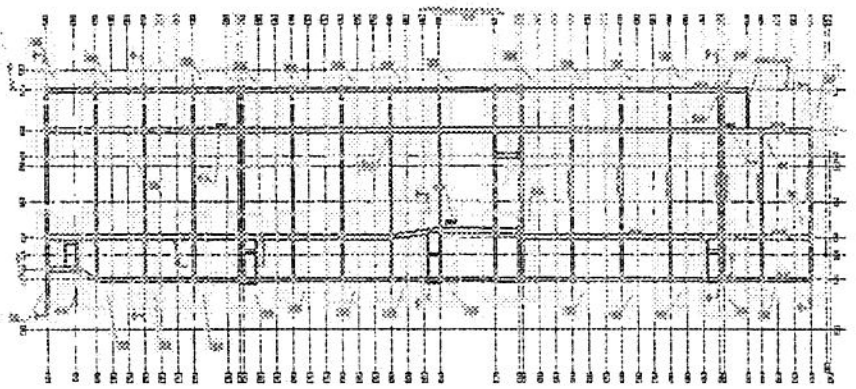


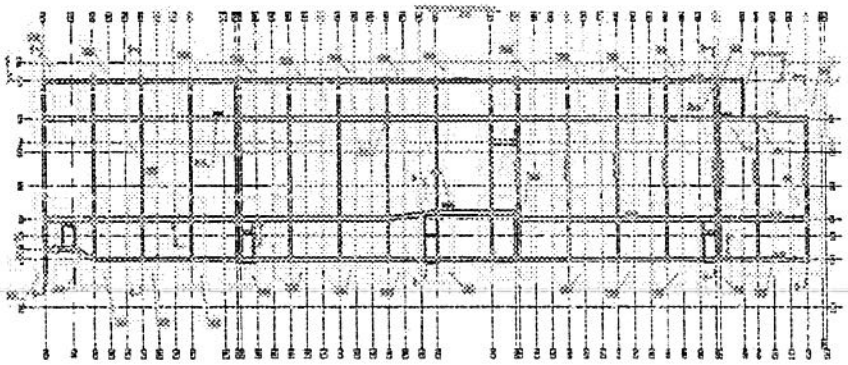


P B12	7	5.40	3.042	12	197.12		197.12	197.12
	7	10.00	3.042	12	365.04		365.04	365.04
FLEJE	3	0.74	0.560	68	28.18		28.18	28.18
	3	2.28	0.560	17	21.71		21.71	21.71
					-		-	-
P D12	6	5.70	3.973	10	226.46		226.46	226.46
	6	9.00	3.973	10	357.57		357.57	357.57
FLEJE	3	0.74	0.560	68	28.18		28.18	28.18
	3	2.28	0.560	17	21.71		21.71	21.71
					-		-	-
P F12	6	5.70	3.973	10	226.46		226.46	226.46
	6	10.00	3.973	10	397.30		397.30	397.30
FLEJE	3	0.74	0.560	68	28.18		28.18	28.18
	3	2.28	0.560	17	21.71		21.71	21.71
					-		-	-
P A13	6	5.70	3.973	11	249.11		249.11	249.11
	6	10.00	3.973	11	437.03		437.03	437.03
FLEJE	3	2.08	0.560	17	19.84		19.84	19.84
					-		-	-
P B13	7	5.40	3.042	12	197.12		197.12	197.12
	7	9.00	3.042	12	328.54		328.54	328.54
FLEJE	3	0.74	0.560	68	28.18		28.18	28.18
	3	2.28	0.560	17	21.71		21.71	21.71
					-		-	-
P E13	6	5.70	3.973	8	181.17		181.17	181.17
	6	10.00	3.973	8	317.84		317.84	317.84
FLEJE	3	0.74	0.560	68	28.18		28.18	28.18
	3	2.28	0.560	17	21.71		21.71	21.71
					-		-	-
P F13	6	5.70	3.973	11	249.11		249.11	249.11
	6	10.00	3.973	11	437.03		437.03	437.03
FLEJE	3	2.08	0.560	17	19.84		19.84	19.84
					-		-	-
P A14	6	6.00	3.973	11	262.22		262.22	262.22
	6	10.00	3.973	11	437.03		437.03	437.03
FLEJE	3	2.08	0.560	17	19.84		19.84	19.84
					-		-	-
P B14	6	5.70	3.973	10	226.46		226.46	226.46
	6	10.00	3.973	10	397.30		397.30	397.30
FLEJE	3	0.74	0.560	68	28.18		28.18	28.18
	3	2.28	0.560	17	21.71		21.71	21.71
					-		-	-
P E14	6	5.70	3.973	8	181.17		181.17	181.17
	6	10.00	3.973	8	317.84		317.84	317.84
FLEJE	3	0.74	0.560	68	28.18		28.18	28.18
	3	2.28	0.560	17	21.71		21.71	21.71
					-		-	-
P F14	6	5.70	3.973	11	249.11		249.11	249.11
	6	10.00	3.973	11	437.03		437.03	437.03
FLEJE	3	2.08	0.560	17	19.84		19.84	19.84
					-		-	-
P A15	6	5.70	3.973	11	249.11		249.11	249.11
	6	10.00	3.973	11	437.03		437.03	437.03
FLEJE	3	2.08	0.560	17	19.84		19.84	19.84
					-		-	-
P B15	6	5.70	3.973	12	271.75		271.75	271.75
	6	10.00	3.973	12	476.76		476.76	476.76
FLEJE	3	0.74	0.560	68	28.18		28.18	28.18
	3	2.28	0.560	17	21.71		21.71	21.71
					-		-	-
P E15	6	5.70	3.973	8	181.17		181.17	181.17
	6	10.00	3.973	8	317.84		317.84	317.84
FLEJE	3	0.74	0.560	68	28.18		28.18	28.18
	3	2.28	0.560	17	21.71		21.71	21.71
					-		-	-
P F15	6	5.70	3.973	11	249.11		249.11	249.11
	6	10.00	3.973	11	437.03		437.03	437.03

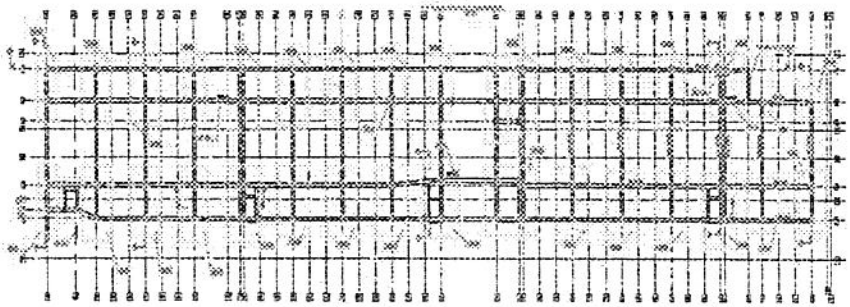


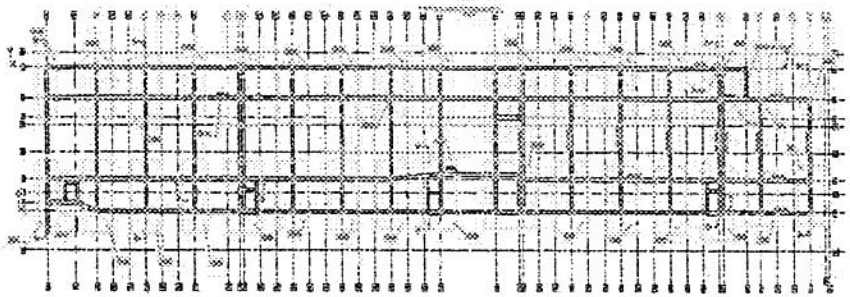
FLEJE	3	2.08	0.560	17	19.84		19.84	19.84
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P A16	7	5.40	3.042	10	164.27		164.27	164.27
	7	10.00	3.042	10	304.20		304.20	304.20
FLEJE	3	0.74	0.560	68	28.18		28.18	28.18
	3	2.28	0.560	17	21.71		21.71	21.71
					-		-	-
P B16	8	6.00	3.973	8	190.70		190.70	190.70
	8	10.00	3.973	8	317.84		317.84	317.84
FLEJE	3	0.74	0.560	68	28.18		28.18	28.18
	3	2.28	0.560	17	21.71		21.71	21.71
					-		-	-
P E16	8	5.70	3.973	2	45.29		45.29	45.29
	8	5.70	3.973	8	181.17		181.17	181.17
	6	9.00	3.973	8	286.06		286.06	286.06
	8	10.00	3.973	2	79.46		79.46	79.46
FLEJE	3	0.74	0.560	68	28.18		28.18	28.18
	3	2.28	0.560	17	21.71		21.71	21.71
					-		-	-
P F16	8	5.70	3.973	8	181.17		181.17	181.17
	8	10.00	3.973	8	317.84		317.84	317.84
FLEJE	3	0.74	0.560	68	28.18		28.18	28.18
	3	2.28	0.560	17	21.71		21.71	21.71
					-		-	-
P A17	5	5.00	1.552	2	15.52		15.52	15.52
	6	5.00	2.235	10	111.75		111.75	111.75
	8	9.50	2.235	10	212.33		212.33	212.33
	5	9.00	1.552	2	27.94		27.94	27.94
FLEJE	3	1.74	0.560	42	40.92		40.92	40.92
	3	2.28	0.560	21	26.81		26.81	26.81
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P B17	8	7.70	3.973	8	244.59		244.59	244.59
	7	6.50	3.042	16	316.37		316.37	316.37
FLEJE	3	1.64	0.560	42	38.57		38.57	38.57
	3	2.28	0.560	21	26.81		26.81	26.81
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P E17	7	5.50	3.042	16	267.70		267.70	267.70
	7	6.50	3.042	16	316.37		316.37	316.37
FLEJE	3	1.64	0.560	36	37.09		37.09	37.09
	3	0.72	0.560	36	14.52		14.52	14.52
	3	2.28	0.560	19	22.98		22.98	22.98
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P F17	7	5.50	3.042	8	133.85		133.85	133.85
	7	9.40	3.042	8	228.76		228.76	228.76
FLEJE	3	1.64	0.560	42	43.28		43.28	43.28
	3	0.72	0.560	42	16.93		16.93	16.93
	3	2.28	0.560	21	26.81		26.81	26.81
					-		-	-
P A18	7	5.50	3.042	4	66.92		66.92	66.92
	8	10.00	3.973	8	317.84		317.84	317.84
FLEJE	3	1.64	0.560	42	38.57		38.57	38.57
	3	2.28	0.560	21	26.81		26.81	26.81
					-		-	-
P B18	8	5.55	3.973	8	176.24		176.24	176.24
	6	9.00	3.973	8	286.06		286.06	286.06
FLEJE	3	1.64	0.560	42	43.28		43.28	43.28
	3	0.74	0.560	42	17.40		17.40	17.40
	3	2.28	0.560	21	26.81		26.81	26.81
					-		-	-
P E18	7	5.50	3.042	4	66.92		66.92	66.92
	6	5.00	2.235	12	134.10		134.10	134.10
	6	10.00	2.235	12	268.20		268.20	268.20
	7	10.00	3.042	4	121.68		121.68	121.68
FLEJE	3	1.64	0.560	42	43.28		43.28	43.28
	3	0.74	0.560	42	17.40		17.40	17.40
	3	2.28	0.560	21	26.81		26.81	26.81
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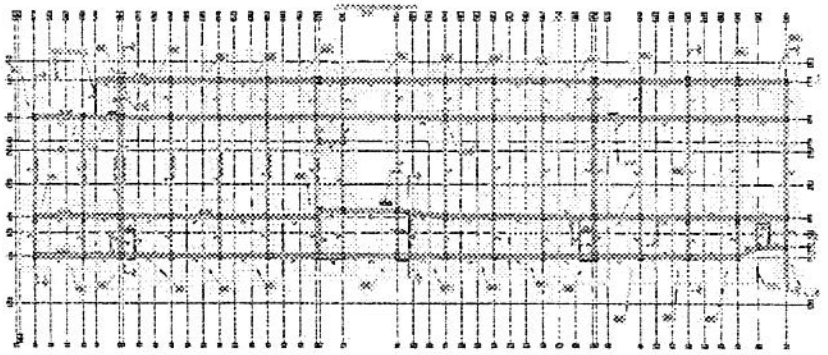


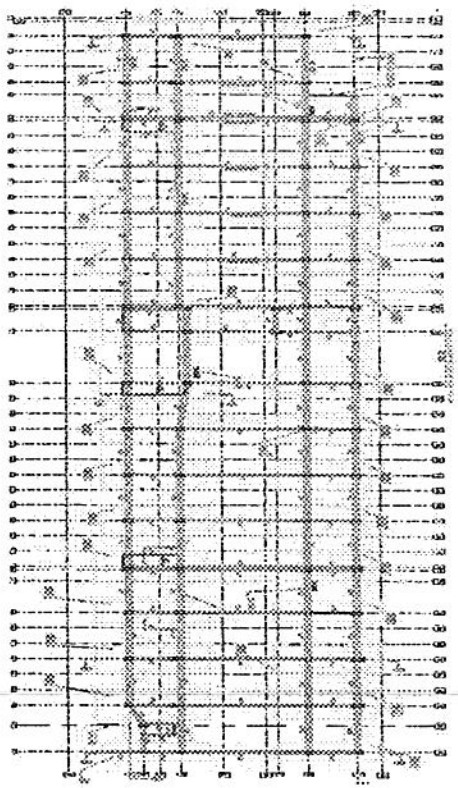
P F18	7	5.50	3.042	8	133.85		133.85	133.85
	7	10.00	3.042	8	243.36		243.36	243.36
FLEJE	3	1.84	0.560	42	43.28		43.28	43.28
	3	0.74	0.560	42	17.40		17.40	17.40
	3	2.28	0.560	21	26.81		26.81	26.81
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P A19	6	5.50	2.235	13	159.80		159.80	159.80
	6	9.00	2.235	13	261.50		261.50	261.50
FLEJE ASPIRAL	4	9.11	0.994	6	57.32		57.32	57.32
					-		-	-
P B19	6	7.35	2.235	8	131.42		131.42	131.42
	7	7.45	3.042	24	543.91		543.91	543.91
FLEJE	3	1.84	0.560	42	43.28		43.28	43.28
	3	0.74	0.560	42	17.40		17.40	17.40
	3	2.28	0.560	21	26.81		26.81	26.81
					-		-	-
P E19	7	5.50	3.042	8	133.85		133.85	133.85
	7	10.00	3.042	8	243.36		243.36	243.36
FLEJE	3	1.74	0.560	242	235.80		235.80	235.80
	3	2.44	0.560	21	28.69		28.69	28.69
	3	3.08	0.560	21	36.22		36.22	36.22
					-		-	-
P F19	7	5.50	3.042	8.00	133.85		133.85	133.85
	7	9.89	3.042	8.00	240.68		240.68	240.68
FLEJE ASPIRAL	3	9.15	0.560	4.00	20.50		20.50	20.50
					-		-	-
P A20	6	5.65	2.235	13	164.18		164.18	164.18
	6	9.00	2.235	13	261.50		261.50	261.50
FLEJE ASPIRAL	4	9.11	0.994	6	57.32		57.32	57.32
					-		-	-
P B20	7	7.45	3.042	24	543.91		543.91	543.91
FLEJE	3	1.84	0.560	42	38.57		38.57	38.57
	3	2.28	0.560	21	26.81		26.81	26.81
					-		-	-
P E20	7	5.50	3.042	8	133.85		133.85	133.85
	7	9.76	3.042	8	235.01		235.01	235.01
FLEJE	3	2.44	0.560	21	28.69		28.69	28.69
	3	1.74	0.560	42	40.92		40.92	40.92
	3	3.08	0.560	21	36.22		36.22	36.22
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P F20	7	5.50	3.042	10	167.31		167.31	167.31
	7	9.63	3.042	9	283.65		283.65	283.65
FLEJE ASPIRAL	3	9.15	0.560	4	20.50		20.50	20.50
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E420A	7	6.00	3.042	8	146.02		146.02	146.02
	7	9.63	3.042	8	234.36		234.36	234.36
FLEJE	3	2.28	0.560	21	26.81		26.81	26.81
	3	0.72	0.560	126	50.60		50.60	50.60
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P A21	7	5.50	3.042	8	100.39		100.39	100.39
	7	9.50	3.042	8	173.39		173.39	173.39
FLEJE	3	1.84	0.560	42	38.57		38.57	38.57
	3	2.28	0.560	21	26.81		26.81	26.81
					-		-	-
P B21	7	5.15	3.042	8	125.21		125.21	125.21
	6	5.33	2.235	8	166.73		166.73	166.73
FLEJE	3	1.84	0.560	42	43.28		43.28	43.28
	3	2.28	0.560	21	26.81		26.81	26.81
	3	0.74	0.560	42	17.40		17.40	17.40
					-		-	-
P E21	7	5.15	3.042	4	62.60		62.60	62.60
	6	10.00	3.973	8	317.84		317.84	317.84
FLEJE	3	1.84	0.560	42	38.57		38.57	38.57
	3	2.28	0.560	21	26.81		26.81	26.81
					-		-	-
P F21	7	5.50	3.042	4	66.92		66.92	66.92
	8	9.50	3.973	8	301.95		301.95	301.95



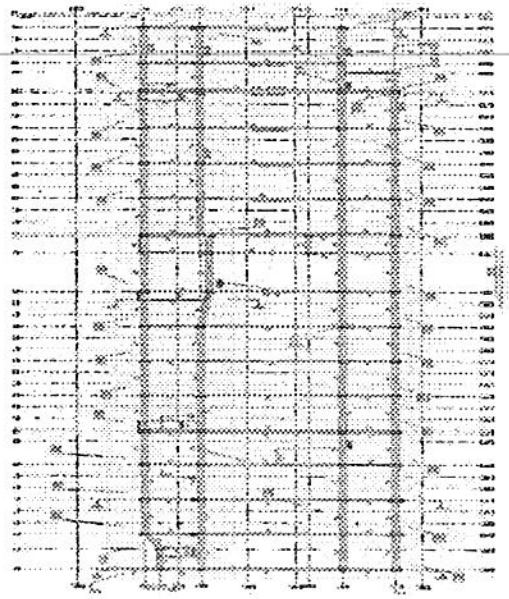


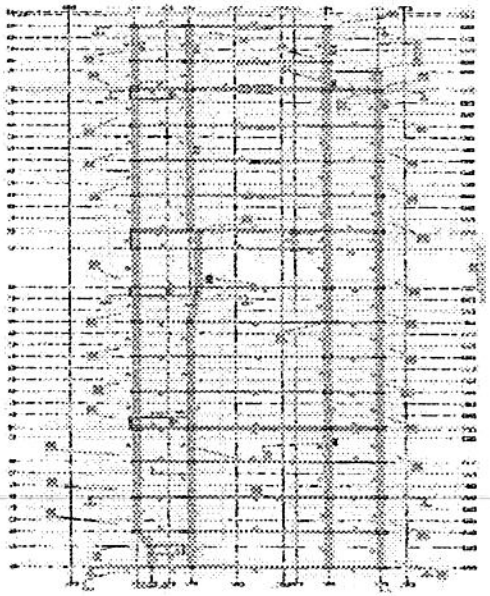
FLEJE	3	1.64	0.560	42	38.57		38.57	38.57
	3	2.28	0.560	21	26.81		26.81	26.81
ARRANQUE MUROS PANTALLAS					-		-	-
MOD-1 EJE B. A-3	4	3.60	0.994	6	21.47		21.47	21.47
	4	3.60	0.994	6	21.47		21.47	21.47
	4	3.40	0.994	10	33.80		33.80	33.80
	4	3.40	0.994	10	33.80		33.80	33.80
FLEJE	3	1.30	0.560	28	20.38		20.38	20.38
	3	0.32	0.560	28	5.02		5.02	5.02
	2	0.29	0.250	84	6.09		6.09	6.09
	3	3.06	0.560	28	48.29		48.29	48.29
	3	2.39	0.560	28	37.48		37.48	37.48
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MOD 2 5C E1-E	2	3.00	0.250	6	4.50		4.50	4.50
	2	3.00	0.250	6	4.50		4.50	4.50
	2	3.00	0.250	10	7.50		7.50	7.50
	2	3.00	0.250	10	7.50		7.50	7.50
FLEJE	2	0.45	0.250	28	3.36		3.36	3.36
	2	0.21	0.250	42	2.21		2.21	2.21
	2	2.86	0.250	14	10.01		10.01	10.01
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MOD 2 5A E3-F	2	3.00	0.250	6	4.50		4.50	4.50
	2	3.00	0.250	6	4.50		4.50	4.50
	2	3.00	0.250	10	7.50		7.50	7.50
	2	3.00	0.250	10	7.50		7.50	7.50
FLEJE	2	0.48	0.250	22	2.64		2.64	2.64
	2	0.21	0.250	110	5.78		5.78	5.78
	2	2.49	0.250	22	13.70		13.70	13.70
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MOD 2 E3 5-5A	2	3.00	0.250	12.00	9.00		9.00	9.00
	2	3.00	0.250	8.00	6.00		6.00	6.00
FLEJE	2	4.06	0.250	11	11.17		11.17	11.17
	2	0.24	0.250	33	1.98		1.98	1.98
	3	0.58	0.560	22	7.15		7.15	7.15
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MOD 2 E1 5-5C	2	3.00	0.250	6	4.50		4.50	4.50
	2	3.00	0.250	6	4.50		4.50	4.50
	2	3.00	0.250	7	5.25		5.25	5.25
	2	3.00	0.250	7	5.25		5.25	5.25
FLEJE	2	0.48	0.250	22	2.64		2.64	2.64
	3	2.13	0.250	22	11.72		11.72	11.72
					-		-	-
MOD 2 F 5-5A	2	3.00	0.250	12	9.00		9.00	9.00
	2	3.00	0.250	16	12.00		12.00	12.00
FLEJE	2	0.24	0.250	84	5.04		5.04	5.04
	2	0.54	0.250	28	3.78		3.78	3.78
	2	4.04	0.250	14	14.14		14.14	14.14
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MOD 3 15B F-E3	2	3.00	0.250	6	4.50		4.50	4.50
	2	3.00	0.250	6	4.50		4.50	4.50
	2	3.00	0.250	18	13.50		13.50	13.50
	2	3.00	0.250	18	13.50		13.50	13.50
FLEJE	2	2.69	0.250	28	18.80		18.80	18.80
	2	0.48	0.250	28	3.36		3.36	3.36
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MOD 3 12A F-E	2	3.00	0.250	6	4.50		4.50	4.50
	2	3.00	0.250	6	4.50		4.50	4.50
	2	3.00	0.250	21	15.75		15.75	15.75
	2	3.00	0.250	21	15.75		15.75	15.75
FLEJE	2	4.29	0.250	28.00	30.03		30.03	30.03
	2	0.48	0.250	28.00	3.36		3.36	3.36
					-		-	-
MOD 3 E3 15B-16	2	3.00	0.250	6	4.50		4.50	4.50
	2	3.00	0.250	6	4.50		4.50	4.50
	2	3.00	0.250	4	3.00		3.00	3.00
	2	3.00	0.250	4	3.00		3.00	3.00
FLEJE	2	3.71	0.250	11	10.20		10.20	10.20



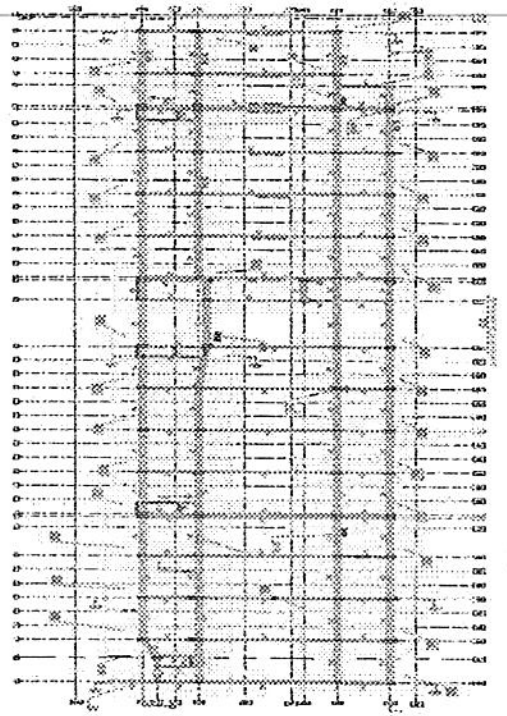


	2	0.46	0.250	22	2.64		2.64	2.64
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MOD 3 D 15C-15CA	2	3.00	0.250	6	4.50		4.50	4.50
	2	3.00	0.250	6	4.50		4.50	4.50
	2	3.00	0.250	4	3.00		3.00	3.00
	2	3.00	0.250	4	3.00		3.00	3.00
FLEJE	2	3.71	0.250	14	12.98		12.98	12.98
	2	0.48	0.250	28	3.36		3.36	3.36
					-		-	-
MOD 3 E 12-12A	2	3.00	0.250	6	4.50		4.50	4.50
	2	3.00	0.250	6	4.50		4.50	4.50
	2	3.00	0.250	7	5.25		5.25	5.25
	2	3.00	0.250	7	5.25		5.25	5.25
FLEJE	2	3.69	0.250	14	13.81		13.81	13.81
	2	0.48	0.250	28	3.36		3.36	3.36
					-		-	-
MOD 3 F 15B-15	2	3.00	0.250	6	4.50		4.50	4.50
	2	3.00	0.250	6	4.50		4.50	4.50
	2	3.00	0.250	7	5.25		5.25	5.25
	2	3.00	0.250	7	5.25		5.25	5.25
FLEJE	2	3.71	0.250	14	12.98		12.98	12.98
	2	0.48	0.250	28	3.36		3.36	3.36
					-		-	-
MOD 3 F 12-12A	2	3.00	0.250	6	4.50		4.50	4.50
	2	3.00	0.250	6	4.50		4.50	4.50
	2	3.00	0.250	6	4.50		4.50	4.50
	2	3.00	0.250	6	4.50		4.50	4.50
FLEJE	2	0.21	0.250	72	3.78		3.78	3.78
	2	0.46	0.250	36	4.32		4.32	4.32
	2	5.10	0.250	18	22.95		22.95	22.95
					-		-	-
MOD 3 E3 12-12A	2	3.00	0.250	6	4.50		4.50	4.50
	2	3.00	0.250	6	4.50		4.50	4.50
	2	3.00	0.250	6	4.50		4.50	4.50
	2	3.00	0.250	6	4.50		4.50	4.50
FLEJE	2	1.62	0.250	22	10.01		10.01	10.01
	2	0.48	0.250	22	2.64		2.64	2.64
					-		-	-
MOD 4 EJE 20A	3	3.50	0.560	2.00	3.92		3.92	3.92
	3	3.50	0.560	2.00	3.92		3.92	3.92
	3	3.20	0.560	7.00	12.54		12.54	12.54
FLEJE	3	0.67	0.560	22.00	7.02		7.02	7.02
	3	2.24	0.560	11.00	13.80		13.80	13.80
					-		-	-
MOD 4 EJE E3	6	3.50	1.552	4	21.73		21.73	21.73
	6	3.50	1.552	4	21.73		21.73	21.73
	3	3.20	0.560	14	25.09		25.09	25.09
FLEJE	3	0.67	0.560	22	7.02		7.02	7.02
	3	1.85	0.560	11	11.46		11.46	11.46
					-		-	-
MOD 4 EJE F	4	3.60	0.994	4	14.31		14.31	14.31
	4	3.60	0.994	4	14.31		14.31	14.31
	3	3.20	0.560	12	21.50		21.50	21.50
	3	3.20	0.560	12	21.50		21.50	21.50
FLEJE	3	5.62	0.560	20	62.94		62.94	62.94
	3	0.38	0.560	120	25.54		25.54	25.54
					-		-	-
VIGAS DE CIMENTACION					-		-	-
EJE E	5	8.00	1.552	2	24.83		24.83	24.83
	6	8.00	1.552	2	24.83		24.83	24.83
	5	10.50	1.552	2	32.59		32.59	32.59
	5	9.00	1.552	2	27.94		27.94	27.94
	5	11.75	1.552	2	36.47		36.47	36.47
	5	11.25	1.552	2	34.92		34.92	34.92
	5	10.50	1.552	2	32.59		32.59	32.59
	5	8.00	1.552	2	24.83		24.83	24.83
	5	9.00	1.552	2	27.94		27.94	27.94

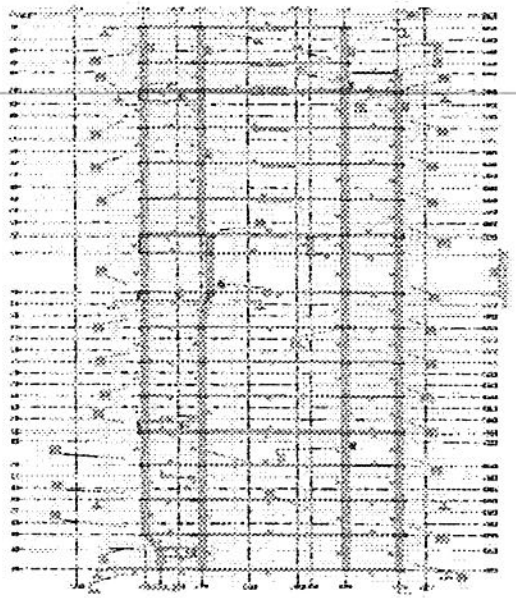


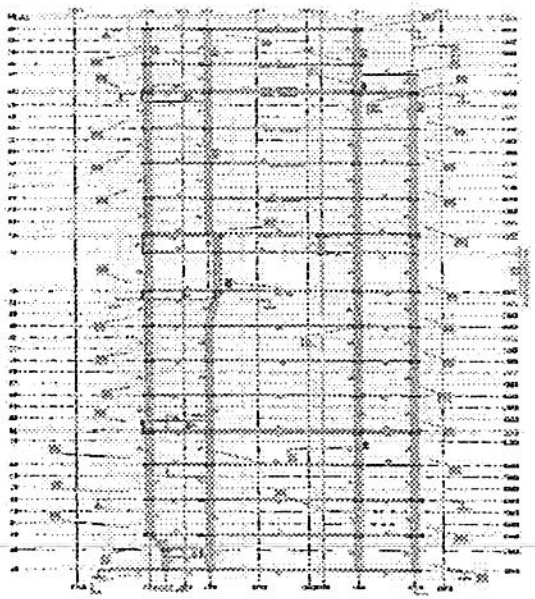


	5	10.50	1.552	2	32.59		32.59	32.59
	5	8.00	1.552	2	24.83		24.83	24.83
	6	4.75	2.235	5	53.08		53.08	53.08
	5	1.75	1.552	1	2.72		2.72	2.72
	6	4.75	2.235	5	53.08		53.08	53.08
	6	4.75	2.235	5	53.08		53.08	53.08
	5	5.00	1.552	1	7.76		7.76	7.76
	6	4.00	2.235	4	35.76		35.76	35.76
	8	5.60	3.973	2	66.34		66.34	66.34
	8	3.60	3.973	2	28.61		28.61	28.61
	6	5.60	2.235	2	25.03		25.03	25.03
	8	4.00	3.973	2	31.78		31.78	31.78
	5	4.20	1.552	1	6.52		6.52	6.52
	6	2.40	2.235	2	10.73		10.73	10.73
	5	3.40	1.552	1	5.28		5.28	5.28
	8	2.20	3.973	1	8.74		8.74	8.74
	6	4.40	2.235	2	19.67		19.67	19.67
	7	4.80	3.042	2	29.20		29.20	29.20
	5	4.80	1.552	2	14.90		14.90	14.90
	8	6.00	3.973	2	47.68		47.68	47.68
	6	5.60	2.235	2	25.03		25.03	25.03
	7	4.50	3.042	1	13.69		13.69	13.69
	5	5.60	1.552	1	8.69		8.69	8.69
	8	4.00	3.973	4	63.57		63.57	63.57
	8	3.20	3.973	5	63.57		63.57	63.57
	5	5.60	1.552	1	8.69		8.69	8.69
	7	4.80	3.042	3	43.80		43.80	43.80
	6	8.80	2.235	2	39.34		39.34	39.34
	7	2.80	3.042	2	17.04		17.04	17.04
	5	4.20	1.552	1	6.52		6.52	6.52
	8	6.00	3.973	3	71.51		71.51	71.51
	6	4.80	2.235	2	21.46		21.46	21.46
	7	6.00	3.042	1	18.25		18.25	18.25
	5	6.00	1.552	1	9.31		9.31	9.31
	8	5.20	3.973	2	41.32		41.32	41.32
	8	6.00	2.235	2	26.82		26.82	26.82
FLEJE	3	1.60	0.560	250	224.00		224.00	224.00
	3	0.65	0.560	250	91.00		91.00	91.00
					-		-	-
EJE F	6	8.25	2.235	2	36.88		36.88	36.88
	8	8.00	2.235	2	35.76		35.76	35.76
	6	10.50	2.235	2	46.94		46.94	46.94
	6	9.50	2.235	2	42.47		42.47	42.47
	6	10.00	2.235	2	44.70		44.70	44.70
	6	10.50	2.235	2	46.94		46.94	46.94
	6	6.00	2.235	2	26.82		26.82	26.82
	6	10.25	2.235	2	45.82		45.82	45.82
	6	10.75	2.235	2	48.05		48.05	48.05
	6	9.50	2.235	2	42.47		42.47	42.47
	6	10.25	2.235	2	45.82		45.82	45.82
	8	8.00	2.235	2	35.76		35.76	35.76
	6	11.75	2.235	2	52.52		52.52	52.52
	6	9.75	2.235	2	43.58		43.58	43.58
	6	10.00	2.235	2	44.70		44.70	44.70
	6	12.00	2.235	2	53.64		53.64	53.64
	6	11.25	2.235	1	25.14		25.14	25.14
	5	10.75	2.235	1	24.03		24.03	24.03
	6	8.00	2.235	1	17.88		17.88	17.88
	6	10.00	2.235	1	22.35		22.35	22.35
	6	10.75	2.235	1	24.03		24.03	24.03
	6	9.50	2.235	1	21.23		21.23	21.23
	6	6.75	2.235	1	15.09		15.09	15.09
	6	11.75	2.235	1	26.26		26.26	26.26
	6	8.00	2.235	1	17.88		17.88	17.88
	6	10.25	2.235	1	22.91		22.91	22.91
	6	9.50	2.235	1	21.23		21.23	21.23
	6	11.00	2.235	1	24.59		24.59	24.59

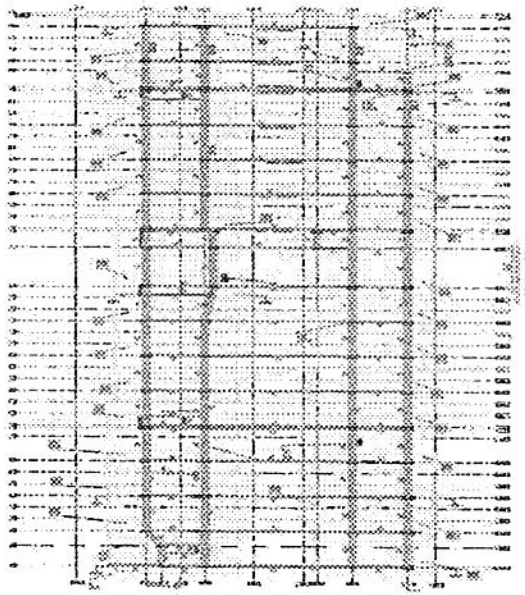


	6	9.00	2.235	1	20.12		20.12	20.12
	6	10.25	2.235	1	22.91		22.91	22.91
	6	10.00	2.235	1	22.35		22.35	22.35
	6	8.00	2.235	1	17.88		17.88	17.88
	7	4.50	3.042	4	54.76		54.76	54.76
	5	1.50	1.552	1	2.33		2.33	2.33
	7	4.50	3.042	3	41.07		41.07	41.07
	7	4.50	3.042	4	54.76		54.76	54.76
	6	4.50	2.235	4	40.23		40.23	40.23
	7	5.00	3.042	4	60.84		60.84	60.84
	6	4.50	2.235	4	40.23		40.23	40.23
	7	4.50	3.042	3	41.07		41.07	41.07
	6	3.75	2.235	3	25.14		25.14	25.14
	7	4.00	3.042	3	36.50		36.50	36.50
	7	3.45	3.042	1	10.49		10.49	10.49
	8	3.50	3.973	3	41.72		41.72	41.72
	6	4.50	2.235	2	20.12		20.12	20.12
	6	4.50	2.235	1	10.06		10.06	10.06
	8	4.00	3.973	4	63.57		63.57	63.57
	8	4.00	3.973	4	63.57		63.57	63.57
	6	3.45	2.235	1	7.71		7.71	7.71
	6	10.00	2.235	3	67.05		67.05	67.05
	8	10.00	3.973	3	119.19		119.19	119.19
	6	10.00	2.235	3	67.05		67.05	67.05
	6	10.00	2.235	3	67.05		67.05	67.05
	6	10.00	2.235	3	67.05		67.05	67.05
	6	10.00	2.235	3	67.05		67.05	67.05
	6	10.58	2.235	3	70.94		70.94	70.94
	6	10.00	2.235	3	67.05		67.05	67.05
	6	9.00	2.235	3	60.35		60.35	60.35
	6	6.00	2.235	3	40.23		40.23	40.23
	6	6.00	2.235	3	40.23		40.23	40.23
	6	9.00	2.235	3	60.35		60.35	60.35
	6	9.00	2.235	3	60.35		60.35	60.35
	6	10.00	2.235	3	67.05		67.05	67.05
	6	10.00	2.235	3	67.05		67.05	67.05
	6	10.00	2.235	3	67.05		67.05	67.05
	6	8.32	2.235	3	55.79		55.79	55.79
	8	4.40	3.973	3	52.44		52.44	52.44
	8	4.50	3.973	3	53.64		53.64	53.64
	7	4.00	3.042	1	12.17		12.17	12.17
	8	4.00	3.973	4	63.57		63.57	63.57
	7	4.00	3.042	1	12.17		12.17	12.17
	7	4.00	3.042	1	12.17		12.17	12.17
	6	3.00	2.235	1	6.71		6.71	6.71
	6	4.00	2.235	1	8.94		8.94	8.94
	7	4.50	3.042	1	13.69		13.69	13.69
	8	3.10	3.973	4	49.27		49.27	49.27
	7	3.50	3.042	1	10.65		10.65	10.65
	7	5.00	3.042	4	60.84		60.84	60.84
	8	4.00	3.973	4	63.57		63.57	63.57
	6	4.50	2.235	1	10.06		10.06	10.06
	6	4.50	2.235	1	10.06		10.06	10.06
	8	10.50	3.973	2	83.43		83.43	83.43
	8	4.00	3.973	1	15.89		15.89	15.89
	7	4.00	3.042	4	48.67		48.67	48.67
	7	4.00	3.042	1	12.17		12.17	12.17
	7	4.00	3.042	4	48.67		48.67	48.67
	6	10.50	2.235	1	23.47		23.47	23.47
	7	4.00	3.042	3	36.50		36.50	36.50
	8	4.50	3.973	4	71.51		71.51	71.51
	7	4.50	3.042	3	41.07		41.07	41.07
	7	3.00	3.042	2	18.25		18.25	18.25
FLEJE	3	1.60	0.600	703	629.89		629.89	629.89
	3	0.65	0.550	703	255.89		255.89	255.89
	4	1.70	0.69	1.00	1.69		1.69	1.69
					-		-	-

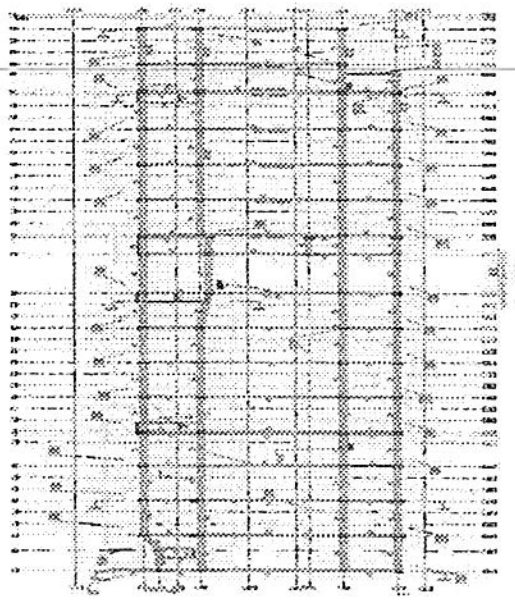


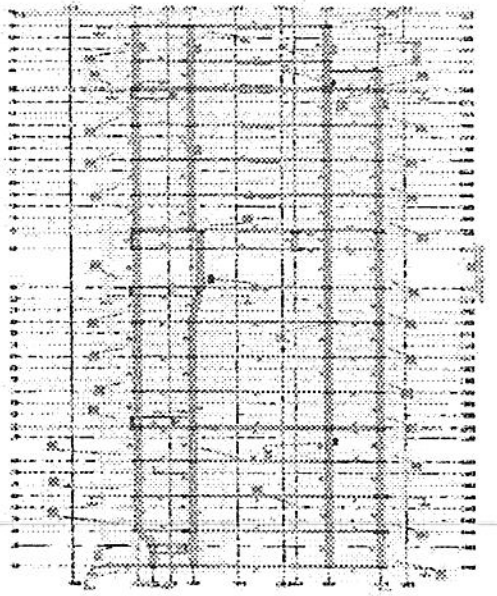


EJE 6	7	4.00	3.042	1	12.17		12.17	12.17
	7	11.50	3.042	1	34.98		34.98	34.98
	7	7.00	3.042	1	21.29		21.29	21.29
	7	10.50	3.042	1	31.94		31.94	31.94
	7	10.50	3.042	1	31.94		31.94	31.94
	7	10.50	3.042	1	31.94		31.94	31.94
	7	11.75	3.042	1	35.74		35.74	35.74
	7	9.25	3.042	1	28.14		28.14	28.14
	7	6.75	3.042	1	20.53		20.53	20.53
	7	11.25	3.042	1	34.22		34.22	34.22
	7	10.50	3.042	1	31.94		31.94	31.94
	7	10.50	3.042	1	31.94		31.94	31.94
	7	10.50	3.042	1	31.94		31.94	31.94
	7	10.50	3.042	1	31.94		31.94	31.94
	7	9.50	3.042	1	28.90		28.90	28.90
	7	10.50	3.042	1	31.94		31.94	31.94
	7	10.50	3.042	1	31.94		31.94	31.94
	7	8.75	3.042	1	26.62		26.62	26.62
	7	8.75	3.042	1	26.62		26.62	26.62
	7	8.75	3.042	1	26.62		26.62	26.62
	7	11.00	3.042	1	33.46		33.46	33.46
	7	10.50	3.042	1	31.94		31.94	31.94
	7	10.50	3.042	1	31.94		31.94	31.94
	7	10.50	3.042	1	31.94		31.94	31.94
	7	7.00	3.042	1	21.29		21.29	21.29
	7	10.75	3.042	1	32.70		32.70	32.70
	7	10.75	3.042	1	32.70		32.70	32.70
	7	10.50	3.042	1	31.94		31.94	31.94
	7	10.50	3.042	1	31.94		31.94	31.94
	7	10.50	3.042	1	31.94		31.94	31.94
	7	10.25	3.042	1	31.18		31.18	31.18
	7	10.75	3.042	1	32.70		32.70	32.70
	7	10.50	3.042	1	31.94		31.94	31.94
	7	12.00	3.042	1	36.50		36.50	36.50
	6	4.50	3.973	2	35.76		35.76	35.76
	6	4.50	2.235	4	40.23		40.23	40.23
	7	4.50	3.042	3	41.07		41.07	41.07
	8	4.50	3.973	2	35.76		35.76	35.76
	6	4.00	2.235	3	26.82		26.82	26.82
	6	2.00	2.235	2	8.94		8.94	8.94
	6	3.00	2.235	1	6.71		6.71	6.71
	6	4.00	2.235	3	26.82		26.82	26.82
	6	4.50	2.235	4	40.23		40.23	40.23
	6	4.50	2.235	4	40.23		40.23	40.23
	7	4.50	3.042	3	41.07		41.07	41.07
	6	3.00	2.235	1	6.71		6.71	6.71
	6	2.00	2.235	1	4.47		4.47	4.47
	6	3.00	2.235	1	6.71		6.71	6.71
	6	3.40	2.235	1	7.60		7.60	7.60
	6	3.50	2.235	3	23.47		23.47	23.47
	6	4.50	2.235	1	10.06		10.06	10.06
	6	4.50	2.235	1	10.06		10.06	10.06
	7	4.00	3.042	4	48.67		48.67	48.67
	7	4.00	3.042	4	48.67		48.67	48.67
	6	3.45	2.235	1	7.71		7.71	7.71
	6	10.00	2.235	3	67.05		67.05	67.05
	6	10.00	2.235	3	67.05		67.05	67.05
	6	10.00	2.235	3	67.05		67.05	67.05
	6	10.00	2.235	3	67.05		67.05	67.05
	6	10.00	2.235	3	67.05		67.05	67.05
	6	10.00	2.235	3	67.05		67.05	67.05
	6	10.58	2.235	3	70.94		70.94	70.94
	6	10.00	2.235	3	67.05		67.05	67.05
	6	9.00	2.235	3	60.35		60.35	60.35
	6	6.00	2.235	3	40.23		40.23	40.23
	6	6.00	2.235	3	40.23		40.23	40.23
	6	9.00	2.235	3	60.35		60.35	60.35

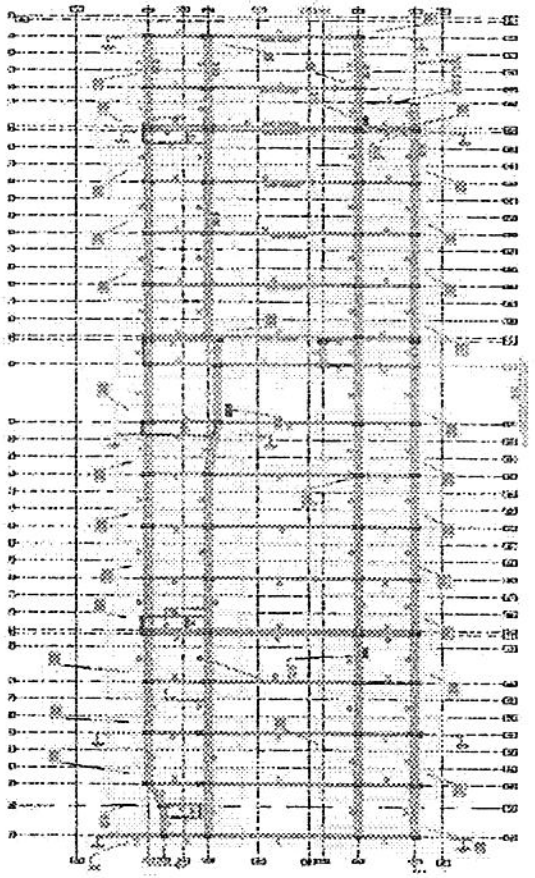


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	6	10.00	2.235	3	67.05	67.05	67.05
	6	10.00	2.235	3	67.05	67.05	67.05
	6	10.00	2.235	3	67.05	67.05	67.05
	6	8.32	2.235	3	55.79	55.79	55.79
	7	4.40	3.042	3	40.15	40.15	40.15
	7	4.50	3.042	1	13.69	13.69	13.69
	7	4.00	3.042	1	12.17	12.17	12.17
	7	4.00	3.042	4	48.67	48.67	48.67
	7	4.00	3.042	1	12.17	12.17	12.17
	6	7.00	2.235	1	15.65	15.65	15.65
	6	3.00	2.235	1	6.71	6.71	6.71
	6	3.10	3.973	4	49.27	49.27	49.27
	6	3.50	2.235	1	7.82	7.82	7.82
	7	5.00	3.042	4	60.84	60.84	60.84
	7	5.00	3.042	4	60.84	60.84	60.84
	6	4.50	2.235	1	10.06	10.06	10.06
	6	4.50	2.235	1	10.06	10.06	10.06
	7	10.50	3.042	2	63.88	63.88	63.88
	7	6.00	3.042	3	54.76	54.76	54.76
	7	4.00	3.042	4	48.67	48.67	48.67
	7	4.00	3.042	1	12.17	12.17	12.17
	7	4.00	3.042	4	48.67	48.67	48.67
	7	4.00	3.042	4	48.67	48.67	48.67
	7	4.00	3.042	3	36.50	36.50	36.50
	6	4.00	2.235	1	8.94	8.94	8.94
	7	4.50	3.042	1	13.69	13.69	13.69
	7	3.00	3.042	2	18.25	18.25	18.25
FLEJE	3	1.60	0.560	657	588.67	588.67	588.67
	3	0.85	0.560	657	239.15	239.15	239.15
					-	-	-
EJE D	6	4.75	3.973	1	18.87	18.87	18.87
	6	10.75	3.973	1	42.71	42.71	42.71
	6	11.75	3.973	1	46.68	46.68	46.68
	6	10.50	3.973	1	41.72	41.72	41.72
	6	11.00	3.973	1	43.70	43.70	43.70
	6	9.00	3.973	1	35.76	35.76	35.76
	6	12.00	3.973	1	47.68	47.68	47.68
	6	11.75	3.973	1	46.68	46.68	46.68
	6	11.25	3.973	1	44.70	44.70	44.70
	6	12.00	3.973	1	47.68	47.68	47.68
	6	10.25	3.973	1	40.72	40.72	40.72
	6	11.50	3.973	1	45.69	45.69	45.69
	6	9.00	3.973	1	35.76	35.76	35.76
	6	9.00	3.973	1	35.76	35.76	35.76
	6	11.00	3.973	1	43.70	43.70	43.70
	6	10.50	3.973	1	41.72	41.72	41.72
	6	11.75	3.973	1	46.68	46.68	46.68
	6	10.50	3.973	1	41.72	41.72	41.72
	6	11.00	3.973	1	43.70	43.70	43.70
	6	7.25	3.973	1	28.80	28.80	28.80
	6	12.00	3.973	1	47.68	47.68	47.68
	6	4.50	1.552	2	13.97	13.97	13.97
	6	4.00	3.973	2	31.78	31.78	31.78
	6	4.00	3.973	2	31.78	31.78	31.78
	6	4.00	3.973	2	31.78	31.78	31.78
	7	3.50	3.042	2	21.29	21.29	21.29
	7	3.50	3.042	2	21.29	21.29	21.29
	6	2.25	3.973	1	8.94	8.94	8.94
	7	2.00	3.042	2	12.17	12.17	12.17
	6	1.75	3.973	3	20.86	20.86	20.86
	5	5.00	1.552	1	7.76	7.76	7.76
	6	2.80	3.973	2	22.25	22.25	22.25
	5	4.60	1.552	1	7.14	7.14	7.14
	6	8.00	3.973	2	63.57	63.57	63.57
	6	4.40	2.235	2	19.67	19.67	19.67
	6	4.60	3.973	2	36.55	36.55	36.55

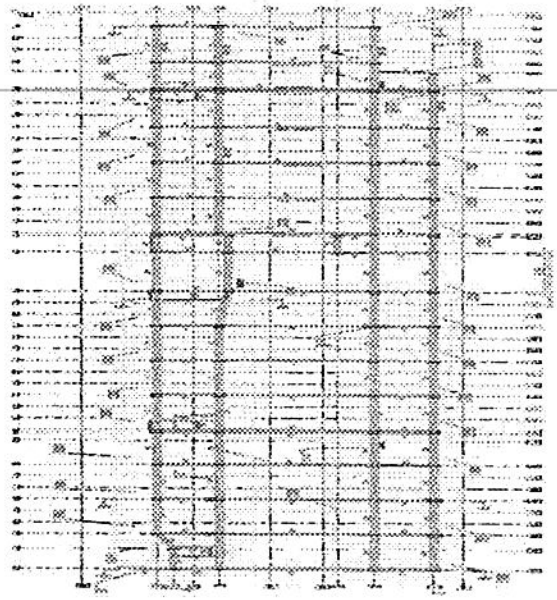


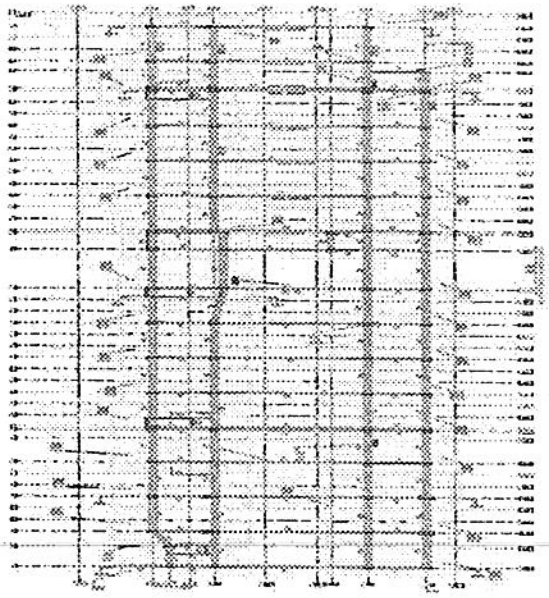


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	7	5.20	3.042	2	37.72	37.72	37.72
	5	5.69	1.552	1	8.69	8.69	8.69
	7	4.80	3.042	3	43.80	43.80	43.80
	8	9.83	2.235	2	43.81	43.81	43.81
	6	2.20	2.235	1	4.92	4.92	4.92
	5	4.40	1.552	1	6.83	6.83	6.83
	8	4.20	3.973	2	33.37	33.37	33.37
	5	4.60	1.552	1	7.14	7.14	7.14
	5	2.40	3.973	1	9.54	9.54	9.54
	6	4.80	2.235	2	21.46	21.46	21.46
	8	4.00	3.973	3	47.68	47.68	47.68
	6	5.60	2.235	2	25.03	25.03	25.03
	8	2.80	3.973	2	22.25	22.25	22.25
	6	4.60	2.235	2	20.56	20.56	20.56
	8	3.20	3.973	5	63.57	63.57	63.57
	6	2.20	2.235	2	9.83	9.83	9.83
	8	1.60	3.973	1	6.36	6.36	6.36
	6	5.00	2.235	2	22.35	22.35	22.35
	7	3.60	3.042	3	32.85	32.85	32.85
	6	4.60	2.235	2	20.56	20.56	20.56
	7	5.00	3.042	2	34.07	34.07	34.07
	8	2.80	3.973	1	11.12	11.12	11.12
	5	4.20	1.552	1	6.52	6.52	6.52
	8	3.00	3.973	2	23.84	23.84	23.84
	6	4.80	2.235	2	21.46	21.46	21.46
	8	4.00	3.973	3	47.68	47.68	47.68
	6	5.60	2.235	2	25.03	25.03	25.03
	8	2.40	3.973	2	19.07	19.07	19.07
	5	4.20	1.552	1	6.52	6.52	6.52
	7	4.53	3.042	1	13.69	13.69	13.69
	6	4.60	2.235	2	20.56	20.56	20.56
	7	3.20	3.042	3	29.20	29.20	29.20
	5	4.60	1.552	1	7.45	7.45	7.45
	7	6.00	3.042	2	36.50	36.50	36.50
	5	5.60	1.552	1	8.69	8.69	8.69
	8	4.60	3.973	2	36.55	36.55	36.55
	5	4.60	1.552	1	7.14	7.14	7.14
	5	2.00	1.552	1	3.10	3.10	3.10
FLEJE	3	1.80	0.560	491	439.94	439.94	439.94
	3	0.65	0.560	491	178.72	178.72	178.72
					-	-	-
EJE C	6	5.27	2.235	4	47.11	47.11	47.11
	6	2.00	2.235	4	17.88	17.88	17.88
	8	5.47	3.973	4	86.93	86.93	86.93
FLEJE	3	1.80	0.560	19	17.02	17.02	17.02
	3	0.65	0.560	19	6.92	6.92	6.92
					-	-	-
EJE D1	7	1.30	3.042	2	7.91	7.91	7.91
	5	1.10	1.552	1	1.71	1.71	1.71
	6	1.20	2.235	2	5.36	5.36	5.36
					-	-	-
EJE 7	7	3.05	3.042	2	18.56	18.56	18.56
	5	2.85	1.552	1	4.42	4.42	4.42
	6	2.95	2.235	2	13.19	13.19	13.19
FLEJE	3	1.60	0.560	8	7.17	7.17	7.17
	3	0.65	0.560	8	2.91	2.91	2.91
					-	-	-
EJE 17	6	12.00	2.235	3	80.46	80.46	80.46
	6	7.50	2.235	3	50.29	50.29	50.29
	5	6.00	1.552	1	9.31	9.31	9.31
	6	2.40	2.235	1	5.36	5.36	5.36
	8	4.00	3.973	4	63.57	63.57	63.57
	7	3.00	3.042	3	27.38	27.38	27.38
	6	9.00	2.235	3	60.35	60.35	60.35
	5	11.00	2.235	3	73.75	73.75	73.75
FLEJE	3	1.60	0.560	94	84.22	84.22	84.22

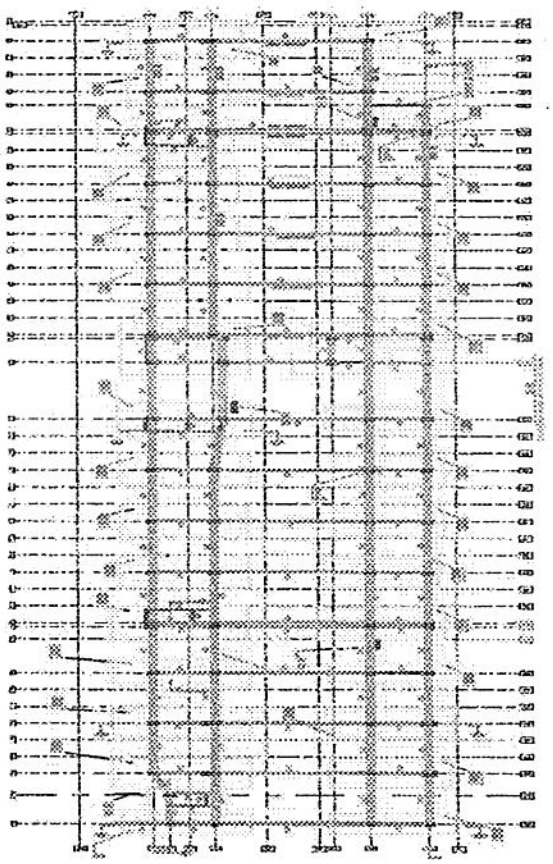


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EJE 1	6	3.50	2.235	3	23.47		23.47	23.47
	6	12.00	2.235	3	80.48		80.48	80.48
	7	5.00	3.042	3	45.63		45.63	45.63
	6	3.75	2.235	1	8.38		8.38	8.38
	6	3.00	2.235	3	20.12		20.12	20.12
	6	3.00	3.973	4	47.68		47.68	47.68
	6	2.60	3.973	3	30.99		30.99	30.99
	7	9.00	3.042	4	109.51		109.51	109.51
	6	7.05	3.973	3	84.03		84.03	84.03
PLEJE	3	1.60	0.560	72	64.51		64.51	64.51
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EJE 2	6	3.50	2.235	3	23.47		23.47	23.47
	6	12.00	2.235	3	80.48		80.48	80.48
	7	5.00	3.042	3	45.63		45.63	45.63
	6	3.75	2.235	1	8.38		8.38	8.38
	6	3.00	2.235	2	13.41		13.41	13.41
	6	3.00	3.973	4	47.68		47.68	47.68
	6	2.60	3.973	3	30.99		30.99	30.99
	7	9.00	3.042	4	109.51		109.51	109.51
	7	7.00	3.042	3	63.88		63.88	63.88
PLEJE	3	1.60	0.560	72	64.51		64.51	64.51
					-		-	-
EJE A	5	4.25	1.552	2	13.19		13.19	13.19
	5	9.50	1.552	2	29.49		29.49	29.49
	5	10.50	1.552	2	32.59		32.59	32.59
	5	9.00	1.552	2	27.94		27.94	27.94
	5	10.25	1.552	2	31.82		31.82	31.82
	5	6.00	1.552	2	18.62		18.62	18.62
	5	10.00	1.552	2	31.04		31.04	31.04
	5	10.75	1.552	2	33.37		33.37	33.37
	5	9.00	1.552	2	27.94		27.94	27.94
	5	10.50	1.552	2	32.59		32.59	32.59
	5	9.00	1.552	2	27.94		27.94	27.94
	5	10.00	1.552	2	31.04		31.04	31.04
	5	10.50	1.552	2	32.59		32.59	32.59
	5	9.00	1.552	2	27.94		27.94	27.94
	5	11.75	1.552	2	36.47		36.47	36.47
	5	8.00	1.552	2	24.83		24.83	24.83
	5	9.00	1.552	2	27.94		27.94	27.94
	5	10.50	1.552	2	32.59		32.59	32.59
	5	9.75	1.552	2	30.28		30.28	30.28
	5	9.75	1.552	2	30.28		30.28	30.28
	5	6.00	1.552	2	18.62		18.62	18.62
	5	10.50	1.552	2	32.59		32.59	32.59
	5	9.00	1.552	2	27.94		27.94	27.94
	5	10.50	1.552	2	32.59		32.59	32.59
	5	9.00	1.552	2	27.94		27.94	27.94
	5	11.00	1.552	2	34.14		34.14	34.14
	5	9.00	1.552	2	27.94		27.94	27.94
	5	10.00	1.552	2	31.04		31.04	31.04
	5	9.00	1.552	2	27.94		27.94	27.94
	5	8.75	1.552	2	27.16		27.16	27.16
	6	4.50	2.235	4	40.23		40.23	40.23
	6	4.50	2.235	4	40.23		40.23	40.23
	6	4.50	2.235	4	40.23		40.23	40.23
	6	4.50	2.235	3	30.17		30.17	30.17
	6	2.00	2.235	5	22.35		22.35	22.35
	6	4.50	2.235	3	30.17		30.17	30.17
	5	4.00	1.552	4	24.83		24.83	24.83
	6	4.50	2.235	4	40.23		40.23	40.23
	6	4.50	2.235	4	40.23		40.23	40.23
	6	4.50	2.235	4	40.23		40.23	40.23
	5	3.50	1.552	2	10.86		10.86	10.86
	5	3.00	1.552	1	4.66		4.66	4.66
	5	3.00	1.552	1	4.66		4.66	4.66
	7	4.00	3.042	3	36.50		36.50	36.50

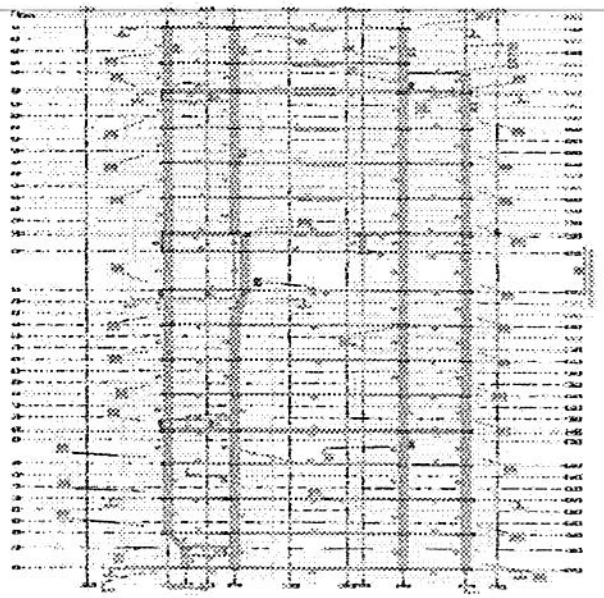


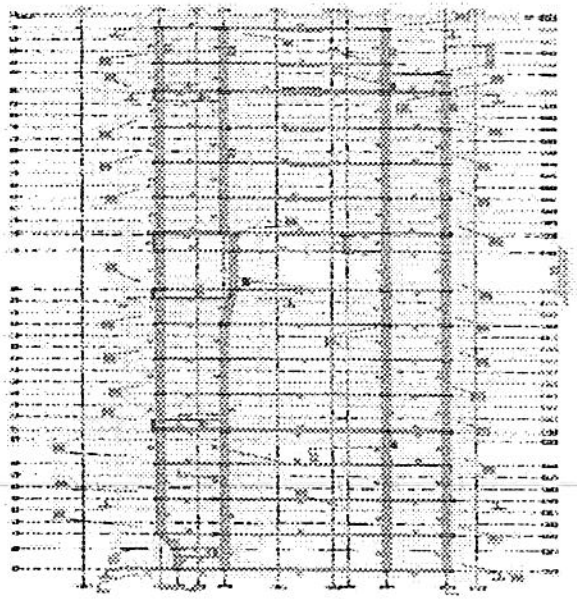


	5	4.00	2.235	1	8.94		8.94	8.94
	5	4.00	2.235	1	8.94		8.94	8.94
	5	4.00	2.235	1	8.94		8.94	8.94
	8	4.00	3.973	3	47.68		47.68	47.68
	8	4.50	3.973	4	71.51		71.51	71.51
	5	4.00	2.235	1	8.94		8.94	8.94
	5	4.00	2.235	1	8.94		8.94	8.94
	5	4.00	2.235	1	8.94		8.94	8.94
	5	4.00	2.235	1	8.94		8.94	8.94
	7	5.00	3.042	4	60.84		60.84	60.84
	7	4.00	3.042	2	24.34		24.34	24.34
	5	2.40	1.552	3	11.17		11.17	11.17
	5	5.00	3.973	1	19.87		19.87	19.87
	7	4.50	3.042	4	54.76		54.76	54.76
	7	4.50	3.042	4	54.76		54.76	54.76
	6	6.00	2.235	1	13.41		13.41	13.41
	8	4.50	3.973	4	71.51		71.51	71.51
	8	4.50	3.973	4	71.51		71.51	71.51
	7	4.50	3.042	4	54.76		54.76	54.76
	7	4.50	3.042	4	54.76		54.76	54.76
	6	6.00	2.235	1	13.41		13.41	13.41
	5	4.00	2.235	1	8.94		8.94	8.94
	5	4.00	2.235	1	8.94		8.94	8.94
	5	4.00	2.235	1	8.94		8.94	8.94
	5	4.00	2.235	1	8.94		8.94	8.94
	5	11.00	2.235	3	73.76		73.76	73.76
	5	11.00	2.235	3	73.76		73.76	73.76
	6	9.00	2.235	3	60.35		60.35	60.35
	6	9.00	2.235	3	60.35		60.35	60.35
	6	9.00	2.235	3	60.35		60.35	60.35
	6	9.00	2.235	3	60.35		60.35	60.35
	6	9.00	2.235	3	60.35		60.35	60.35
	6	11.00	2.235	3	73.76		73.76	73.76
	6	10.50	2.235	3	70.40		70.40	70.40
	6	10.50	2.235	3	70.40		70.40	70.40
	6	10.00	2.235	3	67.05		67.05	67.05
	6	10.00	2.235	3	67.05		67.05	67.05
	6	10.00	2.235	3	67.05		67.05	67.05
	6	10.00	2.235	3	67.05		67.05	67.05
	6	8.42	2.235	3	56.46		56.46	56.46
	5	6.00	2.235	3	40.23		40.23	40.23
FLEJE	3	1.80	0.560	600	537.60		537.60	537.60
	3	0.85	0.560	630	218.40		219.40	218.40
					-		-	-
EJE 20D	7	3.20	3.042	2	19.47		19.47	19.47
	5	3.00	1.552	1	4.66		4.66	4.66
	9	3.10	2.235	2	13.86		13.86	13.86
FLEJE	3	1.80	0.560	9	8.06		8.06	8.06
	3	0.85	0.560	9	3.28		3.28	3.28
					-		-	-
EJE 18	6	12.00	2.235	3	80.46		80.46	80.46
	6	7.50	2.235	3	50.29		50.29	50.29
	5	6.00	1.552	1	9.31		9.31	9.31
	6	2.40	2.235	1	5.36		5.36	5.36
	8	4.00	3.973	3	47.68		47.68	47.68
	7	3.00	3.042	2	18.25		18.25	18.25
	6	9.00	2.235	3	60.35		60.35	60.35
	6	11.00	2.235	3	73.76		73.76	73.76
FLEJE	3	1.80	0.560	94	84.22		84.22	84.22
					-		-	-
EJE 19	6	12.00	2.235	3	80.46		80.46	80.46
	6	7.50	2.235	3	50.29		50.29	50.29
	5	6.00	1.552	1	9.31		9.31	9.31
	7	3.00	3.042	2	18.25		18.25	18.25
	8	4.00	3.973	3	47.68		47.68	47.68
	6	9.00	2.235	3	60.35		60.35	60.35
	6	11.00	2.235	3	73.76		73.76	73.76

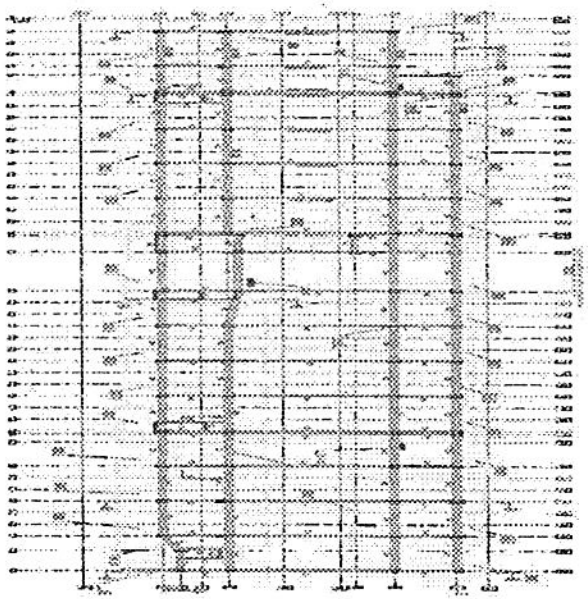


FLEJE	3	1.60	0.560	80	71.68		71.68	71.68
	3	0.65	0.560	80	29.12		29.12	29.12
					-		-	-
EJE 5-9	7	1.94	3.042	2	11.80		11.80	11.80
	5	1.74	1.552	1	2.70		2.70	2.70
	6	1.84	2.235	2	8.22		8.22	8.22
FLEJE	3	1.60	0.560	3	2.69		2.69	2.69
	3	0.65	0.560	3	1.09		1.09	1.09
					-		-	-
EJE 20	6	12.00	2.235	3	80.46		80.46	80.46
	6	7.50	2.235	3	50.29		50.29	50.29
	5	6.00	1.552	1	9.31		9.31	9.31
	5	2.40	2.235	1	5.36		5.36	5.36
	6	4.00	3.973	4	63.57		63.57	63.57
	5	3.00	2.235	1	6.71		6.71	6.71
	6	9.00	2.235	3	60.35		60.35	60.35
	6	11.00	2.235	3	73.76		73.76	73.76
FLEJE	3	1.60	0.560	80	71.68		71.68	71.68
	3	0.65	0.560	80	29.12		29.12	29.12
					-		-	-
EJE 21	6	12.00	2.235	3	80.46		80.46	80.46
	6	7.50	2.235	3	50.29		50.29	50.29
	5	6.00	1.552	1	9.31		9.31	9.31
	6	3.50	3.973	3	41.72		41.72	41.72
	6	3.00	2.235	2	13.41		13.41	13.41
	6	9.00	2.235	3	60.35		60.35	60.35
	6	11.00	2.235	3	73.76		73.76	73.76
FLEJE	3	1.60	0.560	80	71.68		71.68	71.68
	3	0.65	0.560	80	29.12		29.12	29.12
					-		-	-
EJE 3	7	4.66	3.042	2	28.35		28.35	28.35
	5	4.48	1.552	1	6.92		6.92	6.92
	6	4.55	2.235	2	20.38		20.38	20.38
FLEJE	3	1.60	0.560	18	16.13		16.13	16.13
	3	0.65	0.560	13	6.55		6.55	6.55
					-		-	-
EJE 4	6	12.00	2.235	3	80.46		80.46	80.46
	6	7.50	2.235	3	50.29		50.29	50.29
	7	8.00	3.042	4	73.01		73.01	73.01
	7	2.80	3.042	2	17.04		17.04	17.04
	8	4.00	3.973	4	63.57		63.57	63.57
	6	4.20	2.235	3	28.16		28.16	28.16
	6	9.00	2.235	3	60.35		60.35	60.35
	6	11.00	2.235	3	73.76		73.76	73.76
FLEJE	3	1.60	0.560	94	84.22		84.22	84.22
					-		-	-
EJE 5C	7	4.89	3.042	2	29.75		29.75	29.75
	5	4.69	1.552	1	7.28		7.28	7.28
	6	4.79	2.235	2	21.41		21.41	21.41
FLEJE	3	1.60	0.560	41	36.74		36.74	36.74
	3	0.65	0.560	41	14.92		14.92	14.92
			-		-		-	-
EJE 6	6	12.00	2.235	3	80.46		80.46	80.46
	6	7.50	2.235	3	50.29		50.29	50.29
	7	8.00	3.042	4	73.01		73.01	73.01
	7	2.80	3.042	2	17.04		17.04	17.04
	7	2.60	3.042	3	23.73		23.73	23.73
	8	4.00	3.973	4	63.57		63.57	63.57
	6	4.20	2.235	3	28.16		28.16	28.16
	6	9.00	2.235	3	60.35		60.35	60.35
	6	11.00	2.235	3	73.76		73.76	73.76
FLEJE	3	1.60	0.560	94	84.22		84.22	84.22
					-		-	-
EJE 7	8	12.00	2.235	2	53.64		53.64	53.64
	6	7.50	2.235	2	33.53		33.53	33.53
	7	8.00	3.042	4	73.01		73.01	73.01
	7	2.80	3.042	2	17.04		17.04	17.04

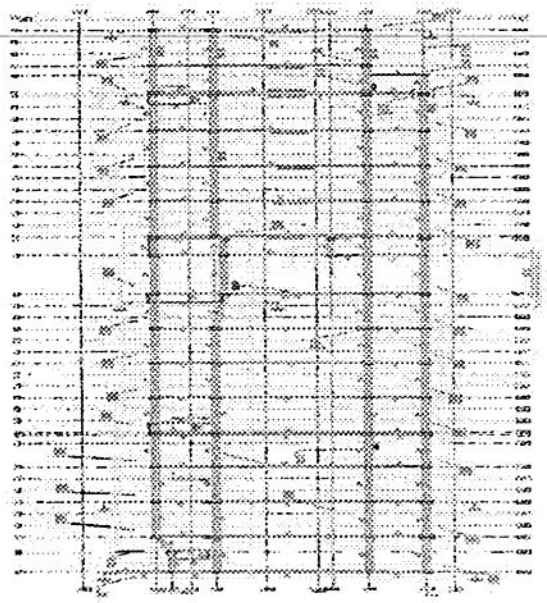


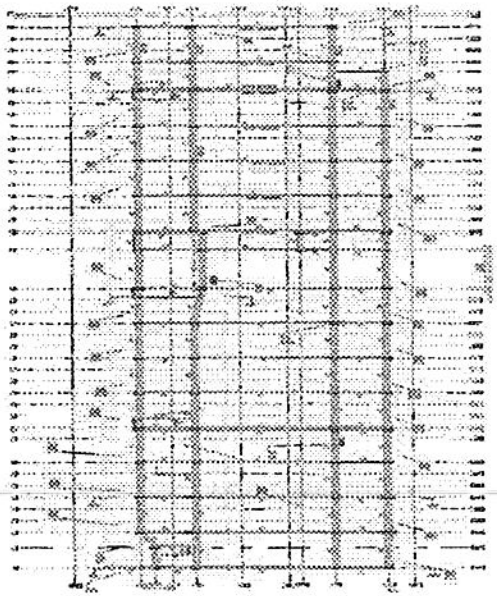


	7	2.80	3.042	3	23.73	23.73	23.73
	8	4.00	3.973	4	63.57	63.57	63.57
	6	4.20	2.235	3	28.16	28.16	28.16
	6	9.00	2.235	3	60.35	60.35	60.36
	6	11.00	2.235	3	73.76	73.76	73.76
FLEJE	3	1.60	0.560	80	71.68	71.68	71.68
	3	0.65	0.560	80	29.12	29.12	29.12
			-		-	-	-
EJE 8	6	12.00	2.235	2	53.64	53.64	53.64
	6	7.50	2.235	2	33.53	33.53	33.53
	7	6.00	3.042	4	73.01	73.01	73.01
	7	2.80	3.042	2	17.04	17.04	17.04
	7	2.60	3.042	3	23.73	23.73	23.73
	8	4.00	3.973	4	63.57	63.57	63.57
	6	4.20	2.235	3	28.16	28.16	28.16
	6	9.00	2.235	3	60.35	60.35	60.36
	6	11.00	2.235	3	73.76	73.76	73.76
FLEJE	3	1.60	0.560	80	71.68	71.68	71.68
	3	0.65	0.560	80	29.12	29.12	29.12
			-		-	-	-
EJE 20C	7	3.20	3.042	2	19.47	19.47	19.47
	5	3.00	1.552	1	4.66	4.66	4.66
	6	3.10	2.235	2	13.86	13.86	13.86
FLEJE	3	1.60	0.560	9	8.06	8.06	8.06
	3	0.65	0.560	9	3.28	3.28	3.28
			-		-	-	-
EJE 9	6	12.00	2.235	2	53.64	53.64	53.64
	6	7.50	2.235	2	33.53	33.53	33.53
	7	6.00	3.042	4	73.01	73.01	73.01
	7	2.80	3.042	2	17.04	17.04	17.04
	7	2.60	3.042	3	23.73	23.73	23.73
	8	4.00	3.973	4	63.57	63.57	63.57
	6	4.20	2.235	3	28.16	28.16	28.16
	6	9.00	2.235	3	60.35	60.35	60.35
	6	11.00	2.235	3	73.76	73.76	73.76
FLEJE	3	1.60	0.560	80	71.68	71.68	71.68
	3	0.65	0.560	80	29.12	29.12	29.12
			-		-	-	-
EJE 11	6	4.50	2.235	3	30.17	30.17	30.17
	6	6.00	2.236	3	40.23	40.23	40.23
	7	3.00	3.042	3	27.38	27.38	27.38
	6	9.00	2.235	3	60.35	60.35	60.35
	6	11.00	2.235	3	73.76	73.76	73.76
FLEJE	3	1.60	0.560	90	80.64	80.64	80.64
			-		-	-	-
EJE 15C	7	4.90	3.042	2	29.81	29.81	29.81
	5	4.70	1.552	1	7.29	7.29	7.29
	6	4.80	2.235	2	21.46	21.46	21.46
FLEJE	3	1.60	0.560	17	15.23	15.23	15.23
	3	0.65	0.560	17	6.19	6.19	6.19
			-		-	-	-
EJE 12	6	12.00	2.235	3	80.46	80.46	80.46
	6	7.50	2.235	3	50.29	50.29	50.29
	7	6.00	3.042	3	54.76	54.76	54.76
	7	2.80	3.042	2	17.04	17.04	17.04
	8	3.50	3.973	4	55.62	55.62	55.62
	6	3.00	2.235	3	20.12	20.12	20.12
	6	9.00	2.235	3	60.35	60.35	60.35
	6	11.00	2.235	3	73.76	73.76	73.76
FLEJE	3	1.60	0.560	20	17.92	17.92	17.92
	3	0.65	0.560	20	7.28	7.28	7.28
			-		-	-	-
EJE 12C	7	5.34	3.042	2	32.49	32.49	32.49
	5	5.14	1.552	1	7.98	7.98	7.98
	6	5.24	2.235	2	23.42	23.42	23.42
FLEJE	3	1.60	0.560	46	41.22	41.22	41.22
	3	0.65	0.560	46	16.74	16.74	16.74

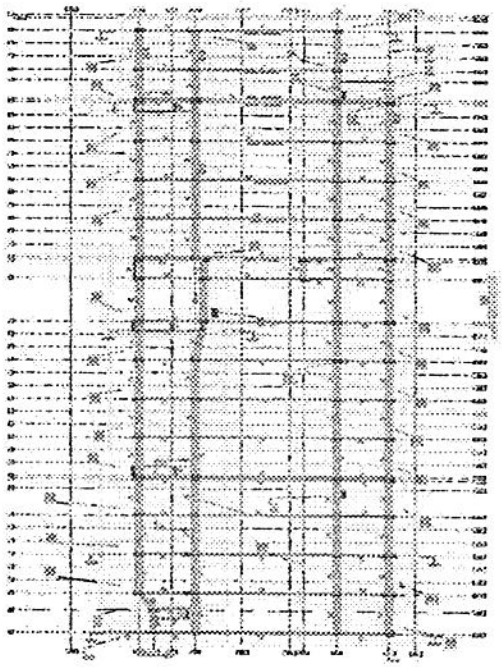


			-		-		-	-
EJE 15	8	12.00	2.235	3	80.46		80.46	80.46
	8	7.50	2.235	3	50.29		50.29	50.29
	7	8.00	3.042	4	73.01		73.01	73.01
	7	2.40	3.042	2	14.60		14.60	14.60
	6	3.00	2.235	2	13.41		13.41	13.41
	8	4.00	3.973	4	63.57		63.57	63.57
	7	3.00	3.042	3	27.38		27.38	27.38
	6	9.00	2.235	3	60.35		60.35	60.35
	6	11.00	2.235	3	73.76		73.76	73.76
FLEJE	3	1.60	0.560	80	71.68		71.68	71.68
	3	0.65	0.560	80	29.12		29.12	29.12
			-		-		-	-
EJE 13	6	12.00	2.235	3	80.46		80.46	80.46
	6	7.50	2.235	3	50.29		50.29	50.29
	7	8.00	3.042	4	73.01		73.01	73.01
	7	2.40	3.042	2	14.60		14.60	14.60
	6	3.00	2.235	2	13.41		13.41	13.41
	8	4.00	3.973	4	63.57		63.57	63.57
	7	3.00	3.042	3	27.38		27.38	27.38
	6	9.00	2.235	3	60.35		60.35	60.35
	6	11.00	2.235	3	73.76		73.76	73.76
FLEJE	3	1.60	0.560	84	84.22		84.22	84.22
			-		-		-	-
EJE 15	6	12.00	2.235	3	80.46		80.46	80.46
	6	7.50	2.235	3	50.29		50.29	50.29
	7	8.00	3.042	4	73.01		73.01	73.01
	7	2.40	3.042	2	14.60		14.60	14.60
	6	3.00	2.235	2	13.41		13.41	13.41
	8	4.00	3.973	4	63.57		63.57	63.57
	7	3.00	3.042	3	27.38		27.38	27.38
	6	9.00	2.235	3	60.35		60.35	60.35
	6	11.00	2.235	3	73.76		73.76	73.76
FLEJE	3	1.60	0.560	80	71.68		71.68	71.68
	3	0.65	0.560	80	29.12		29.12	29.12
			-		-		-	-
EJES OTROS	6	12.00	2.235	5	134.10		134.10	134.10
	6	12.00	2.235	4	107.28		107.28	107.28
	6	12.00	2.235	4	107.28		107.28	107.28
	6	12.00	2.235	4	107.28		107.28	107.28
FLEJE	3	1.60	0.560	80	71.68		71.68	71.68
	3	0.65	0.560	80	29.12		29.12	29.12
			-		-		-	-
EJE 17	6	12.00	2.235	3	80.46		80.46	80.46
	6	7.50	2.235	3	50.29		50.29	50.29
	5	6.00	1.552	1	9.31		9.31	9.31
	6	2.40	2.235	1	5.36		5.36	5.36
	8	4.00	3.973	4	63.57		63.57	63.57
	7	3.00	3.042	3	27.38		27.38	27.38
	6	9.00	2.235	3	60.35		60.35	60.35
	6	11.00	2.235	3	73.76		73.76	73.76
FLEJE	3	1.60	0.560	84	84.22		84.22	84.22
			-		-		-	-
EJE E3. 5-5A	6	3.00	2.235	3	20.12		20.12	20.12
	5	3.00	1.552	1	4.66		4.66	4.66
	6	3.00	2.235	2	13.41		13.41	13.41
FLEJE	3	1.60	0.560	20	17.92		17.92	17.92
			-		-		-	-
MURO ESCALERA	4	6.40	0.994	2	12.72		12.72	12.72
	3	1.14	0.560	31	19.79		19.79	19.79
			-		-		-	-
MURO ASCENSOR M2	4	2.90	0.994	6	17.30		17.30	17.30
	3	1.60	0.560	10	8.96		8.96	8.95
	4	4.57	0.994	6	27.26		27.26	27.26
	3	1.60	0.560	17	15.23		15.23	15.23
			-		-		-	-
MURO ASCENSOR M3S	4	2.90	0.994	10	28.83		28.83	28.83





	3	1.60	0.560	9	8.06		8.06	8.06
	4	5.00	0.994	10	49.70		49.70	49.70
	3	1.60	0.560	19	17.02		17.02	17.02
			-				-	-
MURO ASCENSOR M3N	4	3.00	0.994	8	17.89		17.89	17.89
	3	1.60	0.560	9	8.06		8.06	8.06
	4	2.40	0.994	2	4.77		4.77	4.77
	3	1.14	0.560	10	6.38		6.38	6.38
	4	4.65	0.994	10	46.22		46.22	46.22
	3	1.60	0.560	19	17.02		17.02	17.02
			-				-	-
MURO ASCENSOR M4	4	2.90	0.994	8	23.06		23.06	23.06
	3	1.60	0.560	9	8.06		8.06	8.06
	3	3.50	0.560	8	15.68		15.68	15.68
	3	1.60	0.560	12	10.75		10.75	10.75
ACERO POR CONSTRUCCION VIGAS CIMENTACION			-				-	-
EJE 5	2	2.10	0.250	4	2.10		2.10	2.10
	2	2.80	0.250	2	1.40		1.40	1.40
EJE A - 3- 7	3	3.60	0.560	1	2.02		2.02	2.02
	3	2.10	0.560	2	2.35		2.35	2.35
FUEJES	3	0.30	0.560	40	6.72		6.72	6.72
EJE E-D	3	12.00	0.560	16	107.52		107.52	107.52
					-		-	-
EJE F 5:4	4	8.90	0.994	4.00	35.39		35.39	35.39
	3.00	1.80	0.560	43.00	43.34		43.34	43.34
EJE F 12:13	4	8.90	0.994	4.00	35.39		35.39	35.39
	3.00	1.80	0.560	43.00	43.34		43.34	43.34
EJE F 15:16	4	8.90	0.994	4.00	35.39		35.39	35.39
	3.00	1.80	0.560	43.00	43.34		43.34	43.34
					-		-	-
EJE 10 E F	6	6.40	2.235	5	60.35		60.35	60.35
	6	5.40	2.235	4	48.28		48.28	48.28
	3	1.60	0.560	20	17.92		17.92	17.92
					-		-	-
EJE 10-B:C	6	6.40	2.235	5	60.35		60.35	60.35
	6	5.40	2.235	4	48.28		48.28	48.28
	3	1.60	0.560	10	8.96		8.96	8.96
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					-		-	-



Observaciones

VER PLANO ANEXO

MEMORIAS CANTIDADES DE OBRA

CONTRATISTA
ING JORGE OLMOS AREVALO
RESIDENTE DE OBRA

CONTRATISTA
ING JHON JAIRO BONILLA
DIRECTOR DE OBRA

INTERVENTORIA
ARQ LUIS FRANCISCO ÁVILA LOPEZ
DIRECTOR DE INTERVENTORIA

INTERVENTORÍA
ING DIEGO PARRA TORRES
RESIDENTE ESTRUCTURAL

"CONSTRUCCION Y DOTACION DE LA PRIMERA FASE DEL COMANDO METROPOLITANA DE POLICIA VALLEDUPAR, A PRECIOS UNITARIOS FIJOS SIN FORMULA DE REAJUSTE"	MEMORIA CANTIDADES DE OBRA	
PROYECTO:		

CONTRATISTA: CONSORCIO OBRAS POLICIA 2020
INTERVENTORÍA: CONSORCIO ARQ MARTINEZ

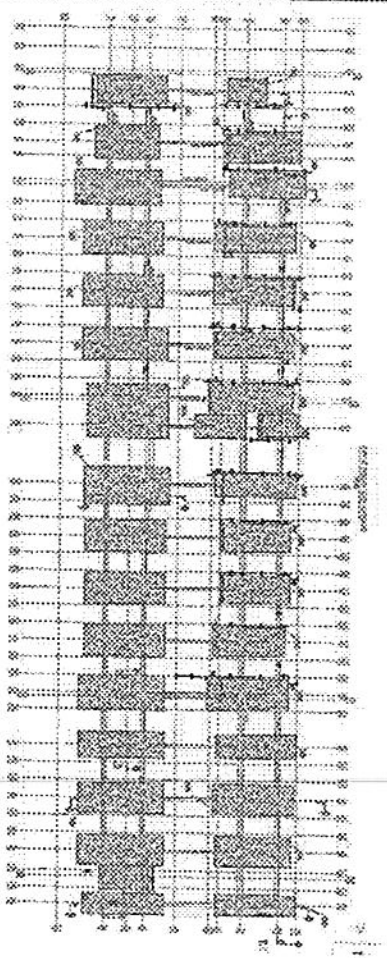
FECHA — DIA 23 MES 4 AÑO 2021
CONTRATO OBRA No. 06-6-10142-20
CONTRATO INTERV. No. 06-3-10144-20

CAPITULO: OBRAS EN CONCRETO Y ACEROS DE REFUERZO — REF. 5

ITEM: ACERO DE REFUERZO PDR-60; Fy=420 Mpa PARA CIMENTACIÓN Y ESTRUCTURAS DE CONCRETO. INCLUYE SUMINISTRO, TRANSPORTE, FIGURADO E INSTALACIÓN — UND. KG — REF. 5.12

LOCALIZACIÓN	# VARILLA	ELEMENTOS LARGO	ELEMENTOS PESO	ELEMENTOS CANT.	# PARCIAL	VANOS L	VANOS a	VANOS h	PESO	TOTAL
ZAP T1	6	3.00	2.235	11	73.76				73.76	73.76
	6	6.04	2.235	48	647.97				647.97	647.97
	6	5.40	2.235	34	410.35				410.35	410.35
	6	7.40	2.235	25	413.48				413.48	413.48
	6	4.00	2.235	24	214.56				214.56	214.56
	6	4.50	2.235	6	60.35				60.35	60.35
	4	0.95	0.994	33	31.16				31.16	31.16
									-	-
ZAP T2	5	4.10	1.552	24	152.72				152.72	152.72
	5	4.10	1.552	24	152.72				152.72	152.72
									-	-
ZAP T3	6	7.04	2.235	25	393.36				393.36	393.36
	6	4.04	2.235	24	216.71				216.71	216.71
	6	5.40	2.235	34	410.35				410.35	410.35
	5	5.30	1.552	23	189.19				189.19	189.19
	6	7.40	2.235	25	413.48				413.48	413.48
	6	1.35	2.235	25	75.43				75.43	75.43
	4	0.95	0.994	33	31.16				31.16	31.16
									-	-
ZAP T4	8	4.50	3.973	25	446.96				446.96	446.96
	6	6.30	2.235	31	436.50				436.50	436.50
	6	6.70	2.235	30	449.24				449.24	449.24
	6	6.10	2.235	24	327.20				327.20	327.20
	6	6.00	2.235	6	80.46				80.46	80.46
	4	0.95	0.994	37	34.94				34.94	34.94
										-
ZAP T5	7	4.00	3.042	18	219.02				219.02	219.02
	7	2.40	3.042	6	36.50				36.50	36.50
	7	6.40	3.042	42	817.69				817.69	817.69
	5	6.40	1.552	43	427.11				427.11	427.11
	7	9.00	3.042	24	657.07				657.07	657.07
	6	9.00	2.235	21	422.42				422.42	422.42
	4	0.90	0.994	48	42.94				42.94	42.94
										-
ZAP T6	6	2.40	2.235	23	123.37				123.37	123.37
	6	4.60	2.235	38	407.66				407.66	407.66
	6	7.80	2.235	23	400.96				400.96	400.96
	6	7.80	2.235	23	400.96				400.96	400.96
	5	4.60	1.552	38	283.08				283.08	283.08
	4	0.95	0.994	30	28.33				28.33	28.33
										-
ZAP T7 EJE 6	6	3.05	2.235	38	259.04				259.04	259.04
	6	5.90	2.235	41	540.65				540.65	540.65
	6	6.40	2.235	31	581.99				581.99	581.99

LOCALIZACIÓN



"CONSTRUCCION Y DOTACION DE LA PRIMERA FASE DEL COMANDO METROPOLITANA DE POLICIA VALLEDUPAR, A PRECIOS UNITARIOS FIJOS SIN FORMULA DE REAJUSTE"	MEMORIA CANTIDADES DE OBRA	
PROYECTO:		

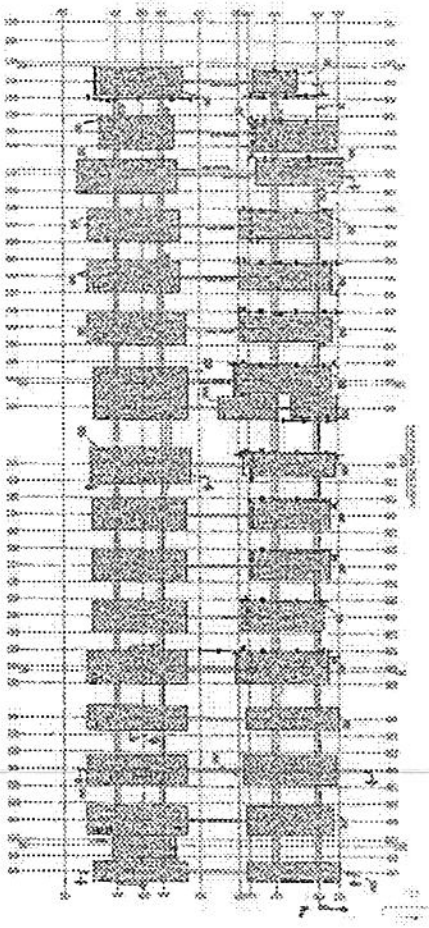
CONTRATISTA	CONSORCIO OBRAS POLICIA 2020	FECHA	DIA 23	MES 4	AÑO 2021
INTERVENTORÍA	CONSORCIO ARQ MARTINEZ	CONTRATO OBRA No.	66-6-10142-20		
		CONTRATO INTERV. No.	66-3-10144-20		

CAPITULO	OBRAS EN CONCRETO Y ACEROS DE REFUERZO	REF.	5

ITEM	ACERO DE REFUERZO PDR-60; Fy=420 Mpa PARA CIMENTACIÓN Y ESTRUCTURAS DE CONCRETO. INCLUYE SUMINISTRO, TRANSPORTE, FIGURADO E INSTALACIÓN	UND.	KG	REF.	5.12

LOCALIZACION	# VARILLA	ELEMENTOS LARGO	ELEMENTOS PESO	ELEMENTOS CANT	P. PARCIAL	VANOS L	VANOS A	VANOS B	PESO	TOTAL
	6	6.00	2.235	19	254.79				254.79	254.79
	6	5.90	2.235	6	79.12				79.12	79.12
	4	0.90	0.994	41	36.68				36.68	36.68
										-
ZAP T8 EJE 6	7	8.40	3.042	18	459.95				459.95	459.95
	6	4.90	2.235	48	536.62				536.62	536.62
	7	6.00	3.042	18	328.54				328.54	328.54
	6	6.04	2.235	23	310.49				310.49	310.49
	4	1.00	0.994	40	39.76				39.76	39.76
										-
ZAP T7 EJE 7	6	3.05	2.235	38	259.04				259.04	259.04
	6	5.90	2.235	41	540.65				540.65	540.65
	6	8.40	2.235	31	581.99				581.99	581.99
	6	6.00	2.235	19	254.79				254.79	254.79
	6	5.90	2.235	6	79.12				79.12	79.12
	4	0.90	0.994	41	36.68				36.68	36.68
										-
ZAP T5 EJE 7	7	8.40	3.042	15	459.95				459.95	459.95
	7	6.00	3.042	18	328.54				328.54	328.54
	5	4.90	2.235	49	536.62				536.62	536.62
	6	6.04	2.235	23	310.49				310.49	310.49
	4	1.00	0.994	40	39.76				39.76	39.76
									-	-
ZAP T9	7	3.00	3.042	19	146.02				146.02	146.02
	7	6.00	3.042	44	803.09				803.09	803.09
	7	6.00	3.042	19	346.79				346.79	346.79
	7	9.00	3.042	29	793.96				793.96	793.96
	6	5.90	2.235	6	79.12				79.12	79.12
	4	1.00	0.994	44	43.74				43.74	43.74
									-	-
ZAP T10	7	4.50	3.042	14	191.65				191.65	191.65
	7	5.00	3.042	41	623.61				623.61	623.61
	7	8.50	3.042	24	620.57				620.57	620.57
	6	6.00	2.235	15	201.15				201.15	201.15
	4	0.95	0.994	34	32.11				32.11	32.11
									-	-
ZAP T11	6	4.90	2.235	44	481.87				481.87	481.87
	6	5.20	2.235	34	395.15				395.15	395.15
	6	6.90	2.235	24	477.40				477.40	477.40
	6	8.30	2.235	19	352.46				352.46	352.46
	6	3.00	2.235	12	80.46				80.46	80.46
	4	0.95	0.994	35	33.99				33.99	33.99
									-	-
ZAP T12	6	5.50	2.235	23	282.73				282.73	282.73

LOCALIZACIÓN



"CONSTRUCCION Y DOTACION DE LA PRIMERA FASE DEL COMANDO METROPOLITANA DE POLICIA VALLEDUPAR, A PRECIOS UNITARIOS FIJOS SIN FORMULA DE REAJUSTE"	MEMORIA CANTIDADES DE OBRA	
PROYECTO:		

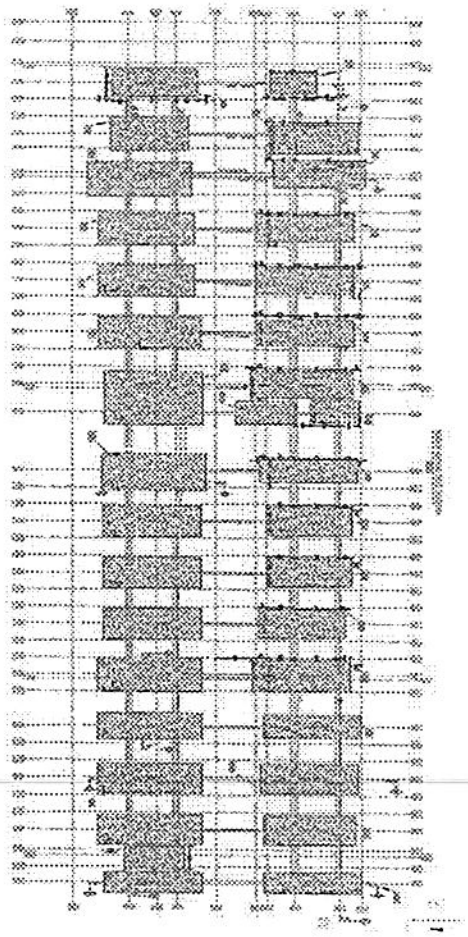
CONTRATISTA	CONSORCIO OBRAS POLICIA 2020	FECHA	DIA 23	MES 4	AÑO 2021
INTERVENTORÍA	CONSORCIO ARQ MARTINEZ	CONTRATO OBRA No.	05-6-10142-20		
		CONTRATO INTERV. No.	06-3-10144-20		

CAPITULO	OBRAS EN CONCRETO Y ACEROS DE REFUERZO	REF.	5

ITEM	ACERO DE REFUERZO PDR-60; fy=420 Mpa PARA CIMENTACION Y ESTRUCTURAS DE CONCRETO. INCLUYE SUMINISTRO, TRANSPORTE, FIGURADO E INSTALACIÓN	UND	KG	REF.	5.12

LOCALIZACION	# VARILLA	ELEMENTOS			P. PARCIAL	VANOS			PESO	TOTAL
		LARGO	PESO	CANT.		C	E	N		
	6	4.00	2.235	26	232.44				232.44	232.44
	6	8.40	2.235	42	788.51				788.51	788.51
	6	7.80	2.235	42	732.19				732.19	732.19
	6	9.70	2.235	40	867.18				867.18	867.18
	6	9.10	2.235	36	732.19				732.19	732.19
	4	0.95	0.994	71	67.05				67.05	67.05
									-	-
ZAP T113	5	5.30	1.552	36	296.12				296.12	296.12
	5	4.30	1.552	41	273.62				273.62	273.62
									-	-
ZAP T14	5	4.30	1.552	28	186.86				186.86	186.86
	5	4.30	1.552	28	186.86				186.86	186.86
									-	-
ZAP T15	7	6.90	3.042	44	923.55				923.55	923.55
	7	8.90	3.042	34	920.51				920.51	920.51
	6	6.90	2.235	28	431.80				431.80	431.80
	6	8.90	2.235	22	437.61				437.61	437.61
	4	0.95	0.994	52	49.10				49.10	49.10
									-	-
ZAP T16	8	5.00	3.973	16	317.84				317.84	317.84
	8	4.60	3.973	46	840.69				840.69	840.69
	8	8.50	3.973	17	574.10				574.10	574.10
	6	4.40	2.235	27	265.52				265.52	265.52
	6	8.40	2.235	14	262.84				262.84	262.84
	4	1.20	0.994	30	35.78				35.78	35.78
									-	-
ZAP T17	6	4.50	2.235	10	100.58				100.58	100.58
	6	3.00	2.235	27	181.04				181.04	181.04
	6	6.00	2.235	26	348.66				348.66	348.66
	6	5.40	2.235	34	410.35				410.35	410.35
	6	7.40	2.235	25	413.48				413.48	413.48
	4	0.95	0.994	33	31.16				31.16	31.16
									-	-
ZAP T32	6	4.50	2.235	40	402.30				402.30	402.30
	6	5.00	2.235	18	201.15				201.15	201.15
	6	4.00	2.235	12	107.28				107.28	107.28
	6	5.90	2.236	38	514.27				514.27	514.27
	6	8.40	2.235	28	525.67				525.67	525.67
	4	0.95	0.994	41	38.72				38.72	38.72
									-	-
ZAP T18	6	3.00	2.235	26	174.33				174.33	174.33
	6	4.50	2.235	10	100.58				100.58	100.58
	6	5.40	2.235	34	410.35				410.35	410.35
	6	7.40	2.235	25	413.48				413.48	413.48

LOCALIZACION



"CONSTRUCCION Y DOTACION DE LA PRIMERA FASE DEL COMANDO METROPOLITANA DE POLICIA VALLEDUPAR, A PRECIOS UNITARIOS FIJOS SIN FORMULA DE REAJUSTE"	MEMORIA CANTIDADES DE OBRA	
PROYECTO:		

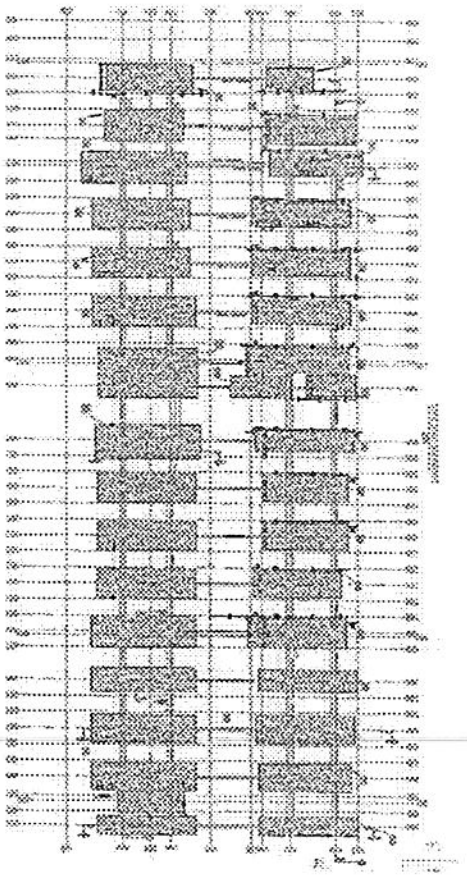
CONTRATISTA: CONSORCIO OBRAS POLICIA 2020
INTERVENTORÍA: CONSORCIO ARQ MARTINEZ

FECHA DIA 23 MES 4 AÑO 2021
CONTRATO OBRA No. 09-6-10142-20
CONTRATO INTERV. No. 08-3-10144-20

CAPITULO: OBRAS EN CONCRETO Y ACEROS DE REFUERZO — REF: 5

ITEM: ACERO DE REFUERZO PDR-60; Fy=420 Mpa PARA CIMENTACIÓN Y ESTRUCTURAS DE CONCRETO. INCLUYE SUMINISTRO, TRANSPORTE, FIGURADO E INSTALACIÓN — UND: KG — REF: 5.12

LOCALIZACION	# VECES IGUAL	ELEMENTOS LARGO	ELEMENTOS PESO	ELEMENTOS CANT.	# PARCIAL	VARIOS L	VARIOS #	VARIOS #	PESO	TOTAL	LOCALIZACION
	6	6.00	2.235	26	348.66				348.66	348.66	
	4	1.00	0.994	40	39.76				39.76	39.76	
									-	-	
ZAP T19	6	5.00	2.235	19	212.33				212.33	212.33	
	6	4.50	2.235	40	402.30				402.30	402.30	
	6	5.90	2.235	39	514.27				514.27	514.27	
	6	8.40	2.235	28	526.67				526.67	526.67	
	6	4.00	2.235	18	160.92				160.92	160.92	
	4	0.95	0.994	41	38.72				38.72	38.72	
									-	-	
ZAP T20	6	7.50	2.235	27	452.59				452.59	452.59	
	6	6.00	2.235	26	348.66				348.66	348.66	
	6	3.00	2.235	22	147.51				147.51	147.51	
	6	4.50	2.235	16	160.92				160.92	160.92	
	6	5.40	2.235	38	458.62				458.62	458.62	
	4	1.00	0.994	40	39.76				39.76	39.76	
									-	-	
ZAP T21	6	2.20	2.235	6	39.34				39.34	39.34	
	6	6.00	2.235	19	254.79				254.79	254.79	
	6	4.00	2.235	30	268.20				268.20	268.20	
	6	5.90	2.235	39	514.27				514.27	514.27	
	6	8.40	2.235	29	544.45				544.45	544.45	
	4	0.95	0.994	41	38.72				38.72	38.72	
									-	-	
ZAP T22	6	8.40	2.235	29	544.45				544.45	544.45	
	5	5.90	1.552	27	247.23				247.23	247.23	
	6	4.60	2.235	28	287.87				287.87	287.87	
	6	5.90	2.235	52	685.70				685.70	685.70	
	6	8.40	2.235	29	544.45				544.45	544.45	
	4	1.00	0.994	47	46.72				46.72	46.72	
									-	-	
ZAP T23	6	8.00	2.235	12	214.56				214.56	214.56	
	6	6.40	2.235	49	700.90				700.90	700.90	
	6	8.90	2.235	32	636.53				636.53	636.53	
	6	8.90	2.235	20	397.83				397.83	397.83	
	6	6.40	2.235	27	386.21				386.21	386.21	
	4	0.90	0.994	48	42.94				42.94	42.94	
									-	-	
ZAP T24	6	4.40	2.235	39	383.53				383.53	383.53	
	6	5.00	2.235	14	187.74				187.74	187.74	
	6	4.50	2.235	20	201.15				201.15	201.15	
	6	8.40	2.235	21	394.25				394.25	394.25	
	4	0.85	0.994	34	28.73				28.73	28.73	
									-	-	



"CONSTRUCCION Y DOTACION DE LA PRIMERA FASE DEL COMANDO METROPOLITANA DE POLICIA VALLEDUPAR, A PRECIOS UNITARIOS FIJOS SIN FORMULA DE REAJUSTE"	MEMORIA CANTIDADES DE OBRA	
PROYECTO:		

CONTRATISTA: CONSORCIO OBRAS POLICIA 2020
INTERVENTORÍA: CONSORCIO ARQ MARTINEZ

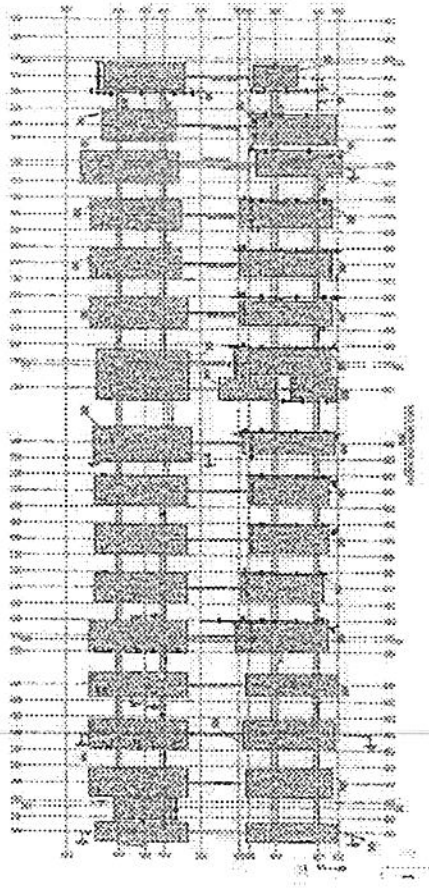
FECHA DIA 23 MES 4 AÑO 2021
CONTRATO OBRA No. 06-6-10142-20
CONTRATO INTERV. No. 06-3-10144-20

CAPITULO: OBRAS EN CONCRETO Y ACEROS DE REFUERZO — REF. 5

ITEM: ACERO DE REFUERZO PDR-60; Fy=420 Mpa PARA CIMENTACIÓN Y ESTRUCTURAS DE CONCRETO. INCLUYE SUMINISTRO, TRANSPORTE, FIGURADO E INSTALACIÓN — UND. KG — REF. 5.12

LOCALIZACIÓN	# VARILLA	ELEMENTOS LARGO	ELEMENTOS PESO	ELEMENTOS CANT.	P. PARCIAL	VARIOS L	VARIOS #	VARIOS %	PESO	TOTAL
ZAP T25	6	3.50	2.235	16	125.16				125.16	125.16
	6	4.00	2.235	23	205.62				205.62	205.62
	6	5.00	2.235	42	469.35				469.35	469.35
	6	9.00	2.235	24	482.76				482.76	482.76
	6	6.00	2.235	16	214.56				214.56	214.56
	6	5.00	2.235	16	178.80				178.80	178.80
	4	0.85	0.994	41	34.64				34.64	34.64
									-	-
ZAP T26	7	8.40	3.042	26	664.37				664.37	664.37
	6	5.60	2.235	43	538.19				538.19	538.19
	6	8.40	2.235	18	337.93				337.93	337.93
	4	0.95	0.994	39	36.83				36.83	36.83
									-	-
ZAP T27	6	5.60	2.235	38	475.61				475.61	475.61
	6	9.00	2.235	31	623.57				623.57	623.57
	6	6.00	2.235	19	254.79				254.79	254.79
	6	3.00	2.235	42	281.61				281.61	281.61
	4	0.95	0.994	42	39.66				39.66	39.66
									-	-
ZAP T28	6	8.00	2.235	26	464.88				464.88	464.88
	6	5.60	2.235	37	463.09				463.09	463.09
	6	8.00	2.235	21	375.48				375.48	375.48
	6	3.00	2.235	12	80.46				80.46	80.46
	4	0.85	0.994	41	34.64				34.64	34.64
									-	-
ZAP T29	6	5.60	2.235	42	525.67				525.67	525.67
	6	9.00	2.235	26	522.99				522.99	522.99
	6	6.00	2.235	18	241.38				241.38	241.38
	6	3.00	2.235	26	174.33				174.33	174.33
	6	5.00	2.235	11	122.93				122.93	122.93
	4	0.95	0.994	42	39.66				39.66	39.66
									-	-
ZAP T30	6	4.00	2.235	12	107.28				107.28	107.28
	6	3.50	2.235	36	313.79				313.79	313.79
	5	6.00	2.235	14	187.74				187.74	187.74
	6	8.40	2.235	18	337.93				337.93	337.93
	4	0.70	0.994	26	18.09				18.09	18.09
									-	-
ZAP T31	6	3.90	2.235	18	156.90				156.90	156.90
	5	3.80	1.552	18	108.95				108.95	108.95
	5	8.30	1.552	15	231.66				231.66	231.66
	6	8.40	2.235	18	337.93				337.93	337.93
	4	0.70	0.994	26	18.09				18.09	18.09
									-	-

LOCALIZACIÓN



"CONSTRUCCION Y DOTACION DE LA PRIMERA FASE DEL COMANDO METROPOLITANA DE POLICIA VALLEDUPAR, A PRECIOS UNITARIOS FIJOS SIN FORMULA DE REAJUSTE"	MEMORIA CANTIDADES DE OBRA	
PROYECTO:		

CONTRATISTA	CONSORCIO OBRAS POLICIA 2020	FECHA	DIA 23	MES 4	AÑO 2021
INTERVENTORÍA	CONSORCIO ARQ MARTINEZ	CONTRATO OBRA No.	06-6-10142-20		
		CONTRATO INTERV. No.	06-3-10144-20		

CAPITULO	OBRAS EN CONCRETO Y ACEROS DE REFUERZO	REF.	5

ITEM	ACERO DE REFUERZO PDR-60; fy=420 Mpa PARA CIMENTACIÓN Y ESTRUCTURAS DE CONCRETO. INCLUYE SUMINISTRO, TRANSPORTE, FIGURADO E INSTALACIÓN	UNID.	KG	REF.	5.12

LOCALIZACIÓN	PLANO #	ELEMENTOS LARGO	ELEMENTOS PESO	ELEMENTOS CANT.	PARCIAL	VANOS L	VANOS D	VANOS I	DEDUC.	TOTAL	LOCALIZACIÓN
ZAP T13N	6	4.40	2.235	27	265.51				265.51	265.51	
	6	5.40	2.235	22	265.51				265.51	265.51	
	5	4.40	1.552	27	184.37				184.37	184.37	
	5	5.40	1.552	23	192.75				192.75	192.75	
	4	1.00	0.994	18	17.89				17.89	17.89	
					-				-	-	
					-				-	-	
					-				-	-	

SUB TOTAL	58760.70	Observaciones
MENEN	3% 1762.82	VER PLANO ANEXO
TOTAL	270 590.84	

MEMORIAS CANTIDADES DE OBRA

CONTRATISTA	CONTRATISTA	INTERVENTORIA	INTERVENTORÍA
ING JORGE OLMOS AREVALO	ING JHON JAIRO BONILLA	ARQ LUIS FRANCISCO ÁVILA LOPEZ	ING DIEGO PARRA TORRES
RESIDENTE DE OBRA	DIRECTOR DE OBRA	DIRECTOR DE INTERVENTORIA	RESIDENTE ESTRUCTURAL

"CONSTRUCCION Y DOTACION DE LA PRIMERA FASE DEL COMANDO METROPOLITANA DE POLICIA VALLEDUPAR, A PRECIOS UNITARIOS FIJOS SIN FORMULA DE REAJUSTE"	MEMORIA CANTIDADES DE OBRA	
PROYECTO:		

		FECHA	DIA 23	MES 4	AÑO 2021
CONTRATISTA	CONSORCIO OBRAS POLICIA 2020	CONTRATO OBRA No.	06-6-10142-20		
INTERVENTORÍA	CONSORCIO ARQ MARTINEZ	CONTRATO INTERV. No.	06-3-10144-20		

CAPITULO	INSTALACIONES HIDRÁULICAS, SANITARIAS, PLUVIALES, RED CONTRAINCENDIO Y GAS DOMICILIARIO	REF.	15

ITEM:	TUBERÍA PVC-SANITARIA 2"	UND.	ML	REF.	15.1.1.1

LOCALIZACIÓN	CANTIDAD ELEMENTOS	ELEMENTOS LARGO	ELEMENTOS ANCHO	ELEMENTOS ALTO	LONG. PARCIAL	VANOS L	VANOS -	VANOS h	LONGITUD	TOTAL	LOCALIZACION
					-				-	-	
					-				-	-	
EJE 9:11-A:F		5.72			5.72				5.72	5.72	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
SUBTOTAL										5.72	Observaciones
DESPERDICIO											VER PLANO ANEXO
TOTAL										5.72	

MEMORIAS CANTIDADES DE OBRA

CONTRATISTA	CONTRATISTA	INTERVENTORIA	INTERVENTORÍA
ING JORGE CAMOS AREVALO	ING JOHN JAIRO BONILLA ARIAS	ARQ LUIS FRANCISCO ÁVILA LOPEZ	ARQ. LUIS ALFONSO SOTO
RESIDENTE DE OBRA	DIRECTOR DE OBRA	DIRECTOR DE INTERVENTORIA	RESIDENTE DE OBRA

"CONSTRUCCION Y DOTACION DE LA PRIMERA FASE DEL COMANDO METROPOLITANA DE POLICIA VALLEDUPAR, A PRECIOS UNITARIOS FIJOS SIN FORMULA DE REAJUSTE"	MEMORIA CANTIDADES DE OBRA	
PROYECTO:		

		FECHA	DIA	23	MES 4	AÑO 2021
CONTRATISTA	CONSORCIO OBRAS POLICIA 2020	CONTRATO OBRA No.		05-6-10142-20		
INTERVENTORÍA	CONSORCIO ARQ MARTINEZ	CONTRATO INTERV. No.		05-3-10144-20		

CAPITULO	INSTALACIONES HIDRÁULICAS, SANITARIAS, PLUVIALES, RED CONTRAINCENDIO Y GAS DOMICILIARIO	REF.	15

ITEM	TUBERÍA PVC-SANITARIA 3"	UND	ML	REF.	15.1.1.2

LOCALIZACIÓN	EXISTEN ELEMENTOS	ELEMENTOS LARGO	ELEMENTOS ANCHO	ELEMENTOS ALTO	LONG. PARCIAL	VANOS L	VANOS a	VANOS n	LONGITUD	TOTAL	LOCALIZACIÓN
FOSO ASCENSOR M1 EJE 5		3.00			3.00				3.00	3.00	
					-				-	-	
FOSO ASCENSOR M2 EJE 12		7.00			7.00				7.00	7.00	
					-				-	-	
FOSO ASCENSOR M2 EJE 16		3.00			3.00				3.00	3.00	
					-				-	-	
FOSO ASCENSOR M4 EJE 20A		3.30			3.30				3.30	3.30	
					-				-	-	
EJE 9:11-A:F		4.35			4.35				4.35	4.35	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	

SUB TOTAL		21.65	Observaciones
IVA(%)			VER PLANO ANEXO
TOTAL		21.65	

MEMORIAS CANTIDADES DE OBRA

CONTRATISTA	CONTRATISTA	INTERVENTORIA	INTERVENTORÍA
ING JORGE OLMOS AREVALO	ING JOHN JAIRO BONILLA ARIAS	ARQ LUIS FRANCISCO ÁVILA LOPEZ	ARQ. LUIS ALFONSO SOTO
RESIDENTE DE OBRA	DIRECTOR DE OBRA	DIRECTOR DE INTERVENTORIA	RESIDENTE DE OBRA

"CONSTRUCCION Y DOTACION DE LA PRIMERA FASE DEL COMANDO METROPOLITANA DE POLICIA VALLEDUPAR, A PRECIOS UNITARIOS FIJOS SIN FORMULA DE REAJUSTE"	MEMORIA CANTIDADES DE OBRA	
PROYECTO:		

		FECHA	DIA	23	MES 4	AÑO 2021
CONTRATISTA	CONSORCIO OBRAS POLICIA 2020	CONTRATO OBRA No.		06-6-10142-20		
INTERVENTORÍA	CONSORCIO ARQ MARTINEZ	CONTRATO INTERV. No.		06-3-10144-20		

CAPITULO	INSTALACIONES HIDRÁULICAS, SANITARIAS, PLUVIALES, RED CONTRAINCENDIO Y GAS DOMICILIARIO	REF	15

ITEM	TUBERÍA PVC-SANITARIA 4"	UND	ML	REF	15.1.1.3

LOCALIZACIÓN	CANTIDAD ELEMENTOS	ELEMENTOS			LONG. PARCIAL	VANOS			LONGITUD	TOTAL	LOCALIZACIÓN
		LARGO	ANCHO	ALTO		L	A	h			
EJE 1:4 - A:F		20.39			20.39				20.39	20.39	
					-				-	-	
					-				-	-	
EJE 9:11-A:F		43.17			43.17				43.17	43.17	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
SUB TOTAL										63.56	Observaciones
MENOS											VER PLANO ANEXO
TOTAL										63.56	

MEMORIAS CANTIDADES DE OBRA

CONTRATISTA	CONTRATISTA	INTERVENTORIA	INTERVENTORÍA
ING JORGE OLMOS AREVALO	ING JOHN JAIRO BONILLA ARIAS	ARQ LUIS FRANCISCO ÁVILA LOPEZ	ARQ LUIS ALFONSO SOTO
RESIDENTE DE OBRA	DIRECTOR DE OBRA	DIRECTOR DE INTERVENTORIA	RESIDENTE DE OBRA

"CONSTRUCCION Y DOTACION DE LA PRIMERA FASE DEL COMANDO METROPOLITANA DE POLICIA VALLEDUPAR, A PRECIOS UNITARIOS FIJOS SIN FORMULA DE REAJUSTE"	MEMORIA CANTIDADES DE OBRA	
PROYECTO:		

		FECHA	DIA 23	MES 4	AÑO 2021
CONTRATISTA	CONSORCIO OBRAS POLICIA 2020	CONTRATO OBRA No.	08-6-10142-20		
INTERVENTORÍA	CONSORCIO ARQ MARTINEZ	CONTRATO INTERV. No.	08-3-10144-20		

CAPITULO	INSTALACIONES HIDRÁULICAS, SANITARIAS, PLUVIALES, RED CONTRAINCENDIO Y GAS DOMICILIARIO	REF.	15

ITEM	ACCESORIOS PVC-SANITARIA 2"	UND.	UN	REF.	15.1.3.1

LOCALIZACION	CANTIDAD ELEMENTOS	ELEMENTOS LARGO	ELEMENTOS ANCHO	ELEMENTOS ALTO	V. PARCIAL	VIANDS L	VIANDS a	VIANDS h	VOLUMEN	TOTAL	LOCALIZACION
EJE 9:11-A:F	9.00				-				-	9.00	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
SUB TOTAL										9.00	Observaciones
MENOS											VER PLANO ANEXO
TOTAL										9.00	

MEMORIAS CANTIDADES DE OBRA

CONTRATISTA	CONTRATISTA	INTERVENTORIA	INTERVENTORÍA
ING JORGE OLMOS AREVALO	ING JOHN JAIRO BONILLA ARIAS	ARQ LUIS FRANCISCO ÁVILA LOPEZ	ARQ. LUIS ALFONSO SOTO
RESIDENTE DE OBRA	DIRECTOR DE OBRA	DIRECTOR DE INTERVENTORIA	RESIDENTE DE OBRA

"CONSTRUCCION Y DOTACION DE LA PRIMERA FASE DEL COMANDO METROPOLITANA DE POLICIA VALLEDUPAR, A PRECIOS UNITARIOS FIJOS SIN FORMULA DE REAJUSTE"	MEMORIA CANTIDADES DE OBRA	
PROYECTO:		

FECHA DIA 23 MES 4 AÑO 2021

CONTRATISTA: CONSORCIO OBRAS POLICIA 2020 — CONTRATO OBRA No. 06-8-10142-20

INTERVENTORÍA: CONSORCIO ARQ MARTINEZ — CONTRATO INTERV. No. 06-3-10144-20

CAPITULO	INSTALACIONES HIDRÁULICAS, SANITARIAS, PLUVIALES, RED CONTRAINCENDIO Y GAS DOMICILIARIO	REF	15

ITEM	ACCESORIOS PVC-SANITARIA 3"	UNID	UN	REF	15.1.3.2

LOCALIZACIÓN	CANTIDAD ELEMENTOS	ELEMENTOS LARGO	ELEMENTOS ANCHO	ELEMENTOS ALTO	V. PARCIAL	VANOS L	VANOS a	VANOS h	VOLUMEN	TOTAL
FOSO ASCENSOR M1 EJE 5	1.00								-	1.00
									-	-
FOSO ASCENSOR M2 EJE 12	3.00								-	3.00
									-	-
FOSO ASCENSOR M2 EJE 18	1.00								-	1.00
									-	-
FOSO ASCENSOR M4 EJE 20A	2.00								-	2.00
									-	-
EJE 9:11-A:F	7.00								-	7.00
									-	-
					-				-	-
					-				-	-
					-				-	-
					-				-	-
					-				-	-
									-	-
									-	-
SUB TOTAL										14.00
VARIOS										
										14.00

LOCALIZACIÓN

Observaciones

VER PLANO ANEXO

MEMORIAS CANTIDADES DE OBRA

CONTRATISTA	CONTRATISTA	INTERVENTORIA	INTERVENTORÍA
ING JORGE OLMOS AREVALO	ING JOHN JAIRO BONILLA ARIAS	ARQ LUIS FRANCISCO ÁVILA LOPEZ	ARQ, LUIS ALFONSO SOTO
RESIDENTE DE OBRA	DIRECTOR DE OBRA	DIRECTOR DE INTERVENTORIA	RESIDENTE DE OBRA

"CONSTRUCCION Y DOTACION DE LA PRIMERA FASE DEL COMANDO METROPOLITANA DE POLICIA VALLEDUPAR, A PRECIOS UNITARIOS FIJOS SIN FORMULA DE REAJUSTE"	MEMORIA CANTIDADES DE OBRA	
PROYECTO:		

		FECHA	DIA	23	MES 4	AÑO 2021
CONTRATISTA	CONSORCIO OBRAS POLICIA 2020	CONTRATO OBRA No.		06-6-10142-20		
INTERVENTORÍA	CONSORCIO ARQ MARTINEZ	CONTRATO INTERV. No.		06-3-10144-20		

CAPITULO	INSTALACIONES HIDRÁULICAS, SANITARIAS, PLUVIALES, RED CONTRAINCENDIO Y GAS DOMICILIARIO	REF.	15

ITEM:	ACCESORIOS PVC-SANITARIA 4"	UND.	UN	REF.	15.1.3.3

LOCALIZACIÓN	CANTIDAD ELEMENTOS	ELEMENTOS LARGO	ELEMENTOS ANCHO	ELEMENTOS ALTO	V. PARCIAL	VANOS L	VANOS #	VANOS n	VOLUMEN	TOTAL	LOCALIZACIÓN
EJE 1:4 - E:F	4.00				-				-	4.00	
					-				-	-	
					-				-	-	
					-				-	-	
EJE 9:11-A:F	27.00				-				-	27.00	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
SUB TOTAL										31.00	Observaciones
VIGENCIA											VER PLANO ANEXO
TOTAL										31.00	

MEMORIAS CANTIDADES DE OBRA

CONTRATISTA	CONTRATISTA	INTERVENTORIA	INTERVENTORÍA
ING JORGE OLMOS AREVALO	ING JOHN JAIRO BONILLA ARIAS	ARQ LUIS FRANCISCO ÁVILA LOPEZ	ARQ. LUIS ALFONSO SOTO
RESIDENTE DE OBRA	DIRECTOR DE OBRA	DIRECTOR DE INTERVENTORIA	RESIDENTE DE OBRA

"CONSTRUCCION Y DOTACION DE LA PRIMERA FASE DEL COMANDO METROPOLITANA DE POLICIA VALLEDUPAR, A PRECIOS UNITARIOS FIJOS SIN FORMULA DE REAJUSTE"

MEMORIA CANTIDADES DE OBRA

PROYECTO:

FECHA DIA 23 MES 4 AÑO 2021

CONTRATISTA: CONSORCIO OBRAS POLICIA 2020 — CONTRATO OBRA No. 06-6-10142-20

INTERVENTORÍA: CONSORCIO ARQ MARTINEZ — CONTRATO INTERV. No. 06-3-10144-20

CAPITULO	INSTALACIONES HIDRÁULICAS, SANITARIAS, PLUVIALES, RED CONTRAINCENDIO Y GAS DOMICILIARIO	REF.	15

ITEM	EXCAVACIONES MANUALES	UNID.	M3	REF.	15.1.4.5

LOCALIZACION	CANTIDAD ELEMENTOS	ELEMENTOS LARGO	ELEMENTOS ANCHO	ELEMENTOS ALTO	V. PARCIAL	VANOS L	VANOS #	VOLUMEN	TOTAL
MODULO 1 EJE 1-2:B:A		11.00	0.45	0.90	4.46			4.46	4.46
					-			-	-
MODULO 1 EJE 1-2:F:E		7.00	0.45	0.65	2.05			2.05	2.05
					-			-	-
MODULO 1 EJE 2-4:F:E		7.50	0.45	0.65	2.19			2.19	2.19
					-			-	-
MODULO 2 FOSO ASCENSOR EJE 5		4.00	0.45	0.80	1.44			1.44	1.44
					-			-	-
MODULO 3 EJE 9:11 - E:F		20.00	0.40	0.80	6.40			6.40	6.40
MODULO 3 EJE 9:11 - C:A		2.40	0.90	0.95	2.05			2.05	2.05
		3.50	0.80	0.90	2.52			2.52	2.52
		1.20	1.40	0.90	1.51			1.51	1.51
		1.00	0.60	1.21	0.73			0.73	0.73
		3.30	2.05	1.21	8.19			8.19	8.19
					-			-	-
MODULO 3 FOSO ASCENSOR EJE 12		4.60	0.45	0.45	0.93			0.93	0.93
MODULO 3 FOSO ASCENSOR EJE 16		2.30	0.45	0.51	0.53			0.53	0.53
								-	-
MODULO 4 FOSO ASCENSOR EJE 20 A		3.70	0.45	0.60	1.00			1.00	1.00
								-	-
								-	-
								-	-
								-	-

SUB TOTAL	41.93
RESA 0	
TOTAL	41.93

LOCALIZACION

Observaciones

VER PLANO ANEXO

MEMORIAS CANTIDADES DE OBRA

CONTRATISTA
ING JORGE OLMOS AREVALO
RESIDENTE DE OBRA

CONTRATISTA
ING JOHN JAIRO BONILLA ARIAS
DIRECTOR DE OBRA

INTERVENTORIA
ARQ LUIS FRANCISCO ÁVILA LOPEZ
DIRECTOR DE INTERVENTORIA

INTERVENTORÍA
ING DIEGO PARRA TORRES
RESIDENTE ESTRUCTURAL

"CONSTRUCCION Y DOTACION DE LA PRIMERA FASE DEL COMANDO METROPOLITANA DE POLICIA VALLEDUPAR, A PRECIOS UNITARIOS FIJOS SIN FORMULA DE REAJUSTE"	MEMORIA CANTIDADES DE OBRA	
PROYECTO:		

		FECHA	DIA	23	MES 4 AÑO 2021
CONTRATISTA	CONSORCIO OBRAS POLICIA 2020	CONTRATO OBRA No.		06-6-10142-20	
INTERVENTORÍA	CONSORCIO ARQ MARTINEZ	CONTRATO INTERV. No.		06-3-10144-20	

CAPITULO	INSTALACIONES HIDRÁULICAS, SANITARIAS, PLUVIALES, RED CONTRAINCENDIO Y GAS DOMICILIARIO	REF.	15

ITEM:	SANITARIO 4"	UND:	UN	REF.	15.1.5.1

LOCALIZACIÓN	CANTIDAD ELEMENTOS	ELEMENTOS LARGO	ELEMENTOS ANCHO	ELEMENTOS ALTO	V. PARCIAL	VANOS L	VANOS a	VANOS h	VOLUMEN	TOTAL	LOCALIZACIÓN
EJE 1:4 - E:F	1.00				-				-	1.00	
					-				-	-	
					-				-	-	
					-				-	-	
EJE 9:11-A:F	11.00				-				-	11.00	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
					-				-	-	
SUB TOTAL										12.00	Observaciones
VIENEN											VER PLANO ANEXO
TOTAL										12.00	

MEMORIAS CANTIDADES DE OBRA

CONTRATISTA	CONTRATISTA	INTERVENTORIA	INTERVENTORIA
ING JORGE OLMOS AREVALO	ING JOHN JAIRO BONILLA ARIAS	ARQ LUIS FRANCISCO ÁVILA LOPEZ	ING DIEGO PARRA TORRES
RESIDENTE DE OBRA	DIRECTOR DE OBRA	DIRECTOR DE INTERVENTORIA	RESIDENTE ESTRUCTURAL

"CONSTRUCCION Y DOTACION DE LA PRIMERA FASE DEL COMANDO METROPOLITANA DE POLICIA VALLEDUPAR, A PRECIOS UNITARIOS FIJOS SIN FORMULA DE REAJUSTE"	MEMORIA CANTIDADES DE OBRA	
PROYECTO:		

		FECHA	DIA 23	MES 4	AÑO 2021
CONTRATISTA	CONSORCIO OBRAS POLICIA 2020	CONTRATO OBRA No.	08-6-10142-20		
INTERVENTORÍA	CONSORCIO ARQ MARTINEZ	CONTRATO INTERV. No.	08-3-10144-20		

CAPITULO	INSTALACIONES HIDRÁULICAS, SANITARIAS, PLUVIALES, RED CONTRAINCENDIO Y GAS DOMICILIARIO	REF.	15

ITEM:	ORINALES 2"	UND	UN	REF.	15.1.5.2

LOCALIZACIÓN	CANTIDAD ELEMENTOS	ELEMENTOS LARGO	ELEMENTOS ANCHO	ELEMENTOS ALTO	V. PARCIAL	VANOS L	VANOS a	VANOS n	VOLUMEN	TOTAL
					-				-	-
					-				-	-
					-				-	-
					-				-	-
EJE 9:11-A:F	4.00				-				-	4.00
					-				-	-
					-				-	-
					-				-	-
					-				-	-
					-				-	-
					-				-	-
					-				-	-
					-				-	-
					-				-	-
					-				-	-
					-				-	-
					-				-	-
SUB TOTAL										4.00
VIENEN:										
TOTAL										4.00

LOCALIZACIÓN

Observaciones

VER PLANO ANEXO

MEMORIAS CANTIDADES DE OBRA

CONTRATISTA	CONTRATISTA	INTERVENTORIA	INTERVENTORIA
ING JORGE OLMOS AREVALO	ING JOHN JAIRO BONILLA ARIAS	ARQ LUIS FRANCISCO ÁVILA LOPEZ	ING DIEGO PARRA TORRES
RESIDENTE DE OBRA	DIRECTOR DE OBRA	DIRECTOR DE INTERVENTORIA	RESIDENTE ESTRUCTURAL

"CONSTRUCCION Y DOTACION DE LA PRIMERA FASE DEL COMANDO METROPOLITANA DE POLICIA VALLEDUPAR, A PRECIOS UNITARIOS FIJOS SIN FORMULA DE REAJUSTE"	MEMORIA CANTIDADES DE OBRA	
PROYECTO:		

		FECHA	DIA 23	MES 4	AÑO 2021
CONTRATISTA	CONSORCIO OBRAS POLICIA 2020	CONTRATO OBRA No.	06-6-10142-20		
INTERVENTORÍA	CONSORCIO ARQ MARTINEZ	CONTRATO INTERV. No.	06-3-10144-20		

CAPITULO	INSTALACIONES HIDRÁULICAS, SANITARIAS, PLUVIALES, RED CONTRAINCENDIO Y GAS DOMICILIARIO	REF.	15

ITEM	LAVAMANOS 2"	UND.	UN	REF.	15.1.5.3

LOCALIZACIÓN	CANTIDAD ELEMENTOS	ELEMENTOS LARGO	ELEMENTOS ANCHO	ELEMENTOS ALTO	V. PARCIAL	VANOS L	VANOS #	VANOS h	VOLUMEN	TOTAL
EJE 1:4 - E:F	1.00				-				-	1.00
					-				-	-
					-				-	-
					-				-	-
EJE 9:11-A:F	9.00				-				-	9.00
					-				-	-
					-				-	-
					-				-	-
					-				-	-
					-				-	-
					-				-	-
					-				-	-
					-				-	-
					-				-	-
					-				-	-
					-				-	-
SUB TOTAL										10.00
VECES										
TOTAL										10.00

LOCALIZACIÓN

Observaciones

VER PLANO ANEXO

MEMORIAS CANTIDADES DE OBRA

CONTRATISTA	CONTRATISTA	INTERVENTORIA	INTERVENTORÍA
ING JORGE OLMOS AREVALO	ING JOHN JAIRO BONILLA ARIAS	ARQ LUIS FRANCISCO ÁVILA LOPEZ	ING DIEGO PARRA TORRES
RESIDENTE DE OBRA	DIRECTOR DE OBRA	DIRECTOR DE INTERVENTORIA	RESIDENTE ESTRUCTURAL

"CONSTRUCCION Y DOTACION DE LA PRIMERA FASE DEL COMANDO METROPOLITANA DE POLICIA VALLEDUPAR, A PRECIOS UNITARIOS FIJOS SIN FORMULA DE REAJUSTE"	MEMORIA CANTIDADES DE OBRA	
PROYECTO:		

CONTRATISTA	CONSORCIO OBRAS POLICIA 2020	FECHA	DIA 23	MES 4	AÑO 2021
INTERVENTORÍA	CONSORCIO ARQ MARTINEZ	CONTRATO OBRA No.	00-8-10142-20		
		CONTRATO INTERV. No.	00-3-10144-20		

CAPITULO	INSTALACIONES HIDRÁULICAS, SANITARIAS, PLUVIALES, RED CONTRAINCENDIO Y GAS DOMICILIARIO	REF.	15

ITEM:	SIFONES DE PISO 2"	UND.	UN	REF.	15.1.5.6

LOCALIZACIÓN	CANTIDAD ELEMENTOS	ELEMENTOS LARGO	ELEMENTOS ANCHO	ELEMENTOS ALTO	V. PARCIAL	VANOS L	VANOS 2	VANOS h	VOLUMEN	TOTAL
EJE 1:4 - E:F	1.00				-				-	1.00
					-				-	-
					-				-	-
					-				-	-
EJE 9:11-A:F	2.00				-				-	2.00
					-				-	-
					-				-	-
					-				-	-
					-				-	-
					-				-	-
					-				-	-
					-				-	-
					-				-	-
					-				-	-
					-				-	-
					-				-	-
					-				-	-
SUB TOTAL										3.00
VIDRIO										
TOTAL										3.00

LOCALIZACIÓN

Observaciones

VER PLANO ANEXO

MEMORIAS CANTIDADES DE OBRA

CONTRATISTA	CONTRATISTA	INTERVENTORIA	INTERVENTORÍA
ING JORGE OLMOS AREVALO	ING JOHN JAIRO BONILLA ARIAS	ARQ LUIS FRANCISCO ÁVILA LOPEZ	ING DIEGO PARRA TORRES
RESIDENTE DE OBRA	DIRECTOR DE OBRA	DIRECTOR DE INTERVENTORIA	RESIDENTE ESTRUCTURAL

"CONSTRUCCION Y DOTACION DE LA PRIMERA FASE DEL COMANDO METROPOLITANA DE POLICIA VALLEDUPAR, A PRECIOS UNITARIOS FIJOS SIN FORMULA DE REAJUSTE"	MEMORIA CANTIDADES DE OBRA	
PROYECTO:		

		FECHA	DIA 23	MES 4	AÑO 2021
CONTRATISTA	CONSORCIO OBRAS POLICIA 2020	CONTRATO OBRA No.	08-6-10142-20		
INTERVENTORÍA	CONSORCIO ARQ MARTINEZ	CONTRATO INTERV. No.	08-3-10144-20		

CAPITULO	INSTALACIONES HIDRÁULICAS, SANITARIAS, PLUVIALES, RED CONTRAINCENDIO Y GAS DOMICILIARIO	REF.	15

ITEM:	SIFONES DE PISO 3"	UND.	UN	REF.	15.1.5.7

LOCALIZACIÓN	CANTIDAD ELEMENTOS	ELEMENTOS LARGO	ELEMENTOS ANCHO	ELEMENTOS ALTO	V. PARCIAL	VANOS L	VANOS a	VANOS K	VOLUMEN	TOTAL
					-				-	-
					-				-	-
					-				-	-
					-				-	-
EJE 9:11-A:F	3.00				-				-	3.00
					-				-	-
					-				-	-
					-				-	-
					-				-	-
					-				-	-
					-				-	-
					-				-	-
					-				-	-
					-				-	-
					-				-	-
				-					-	-
					-				-	-

SUB TOTAL	3.00	Observaciones
VIGAS		VER PLANO ANEXO
	3.00	

MEMORIAS CANTIDADES DE OBRA

CONTRATISTA	CONTRATISTA	INTERVENTORIA	INTERVENTORIA
ING JORGE OLMOS AREVALO	ING JOHN JAIRO BONILLA ARIAS	ARQ LUIS FRANCISCO ÁVILA LOPEZ	ING DIEGO PARRA TORRES
RESIDENTE DE OBRA	DIRECTOR DE OBRA	DIRECTOR DE INTERVENTORIA	RESIDENTE ESTRUCTURAL

SIIF Nación

Orden de pago Presupuestal de gastos Comprobante

Usuario Solicitante	MHmypardo	MICHAEL YEZID PARDO DIAZ
Unidad ó Subunidad Ejecutora Solicitante	16-01-01-000	PONAL GESTION GENERAL
Fecha y Hora Sistema	2021-07-02-10.23 a. m.	

ORDEN DE PAGO PRESUPUESTAL

Número:	126748821	**Fecha Registro:**	2021-05-31	**Unidad / Subunidad ejecutora:**	16-01-01-000 PONAL GESTION GENERAL				
Vigencia Presupuestal	Actual	**Estado:**	Pagada	**Nro Obligación:**	487621	**Comprobante Contable de la Generación:**			
Fecha Máxima Pago:	2021-06-10	**Código de Referencia:**	04500036800126748821	**Tipo de Moneda:**	COP-Pesos	**Tasa de Cambio:**	0,00		
Valor Bruto:	3.157.414.239,42	**Valor Deducciones:**	349.875.327,00	**Valor Neto:**	2.807.538.912,42	**Saldo x Pagar:**	0,00		

VALORES PAGADOS

TRM Pago		**Valor Bruto**	**3.157.414.239,42**	Valor Deducciones	349.875.327,00	Valor Neto	**2.807.538.912,42**	Moneda Base Compra		**Valor MBC**	

REINTEGROS

Números				**No Recaudo:**	
Bruto Reintegrado Pesos:	0,00	**Reintegrado Deducciones Pesos:**	0,00	**Reintegrado Neto Pesos:**	0,00
Bruto Reintegrado Moneda:	0,00	**Reintegrado Deducciones Moneda:**	0,00	**Reintegrado Neto Moneda:**	0,00

TERCERO DE LA ORDEN DE PAGO

Identificación:	901422856	**Razón Social:**	CONSORCIO OBRAS POLICIA 2020	**Medio de Pago:**	Abono en cuenta

CUENTA BANCARIA

Número:	457069986398	**Banco:**	BANCO DAVIVIENDA S.A.	**Tipo:**	Corriente	**Estado:**	Activa

TESORERIA	**DOCUMENTO SOPORTE**				
13-01-01-DT - DIRECCION TESORO NACION DGCPTN	**Número:**	06-6-10142-20	**Tipo:**	CONTRATO DE OBRA	**Fecha:** 2021-05-31

Tipo Beneficiario Pago 01 - Beneficiario final

ITEM PARA AFECTACION DE GASTOS

DEPENDENCIA / POSICION CATALOGO DE GASTO	FUENTE	REC	SIT	VALOR		VALOR PAGADO	VALOR REINTEGRADO		USO DE PROYECTOS ESPECIALES			
				PESOS	MONEDA	PESOS	PESOS	MONEDA EXTRANJERA	USO DE PROYECTO	MONEDA	TASA DE CAMBIO	VALOR MONEDA
000 PONAL GESTION GENERAL / C-1501-0100-17-0-1501019-02 ADQUISICION DE BIENES Y SERVICIOS - COMANDOS DE POLICIA CONSTRUIDOS Y DOTADOS - FORTALECIMIENTO DE LA INFRAESTRUCTURA ESTRATEGICA OPERACIONAL ORIENTADA A CONSOLIDAR LA CONVIVENCIA Y SEGURIDAD CIUDADANA A NIVEL NACIONAL												
	Nación	11	CSF	3.157.414.239,42	0,00	##############				Pesos	0,00	0,00

DEDUCCIONES

POSICIONES DEL CATALOGO PARA PAGO NO PRESUPUESTALES		TERCERO		TARIFA	VALOR	VALOR AJUSTADO PAGO	VALOR REINTEGRADO
2-01-04-01-14	RETEFUENTE - CONTRATOS DE OBRA	800197268	U.A.E. DIRECCION DE IMPUESTOS Y ADUANAS NACIONALES	2,000 %	76.813.800,00	76.813.800,00	
2-01-04-02-01-03	RETEIVA - SERVICIOS GRAVADOS - RÉGIMEN COMÚN - SERVICIOS	800197268	U.A.E. DIRECCION DE IMPUESTOS Y ADUANAS NACIONALES	15,000 %	4.213.228,00	4.213.228,00	
2-03-80-01	PRO UNIVERSIDAD NACIONAL Y DEMAS UNIVERSIDADES ESTATALES	899999001	MINISTERIO DE EDUCACION NACIONAL	2,000 %	76.813.800,00	76.813.800,00	
2-10-01	CONTRIBUCION CONTRATO OBRA PÚBLICA	830114475	MINISTERIO DEL INTERIOR	5,000 %	192.034.499,00	192.034.499,00	

LINEAS DE PAGO VINCULADA

DEPENDENCIA PARA AFECTACION DE PAC	POSICION DEL CATALOGO DE PAC	FECHA	VALOR	ATRIBUTO LINEA DE PAGO	ESTADO
000 - PONAL GESTION GENERAL	3-8 - CNC - INVERSION ORDINARIA NACIÓN CSF	2021-06-10	3.157.414.239,42	05 NINGUNO	Pagada

FIRMA(S) RESPONSABLE(S)

CERTIFICADO DE INGRESOS Y RETENCIONES

POLICIA NACIONAL - GESTION GENERAL

PONAL GESTION GENERAL

800141397

NOMBRE O RAZON SOCIAL: CONSORCIO OBRAS POLICIA 2020

CC O NIT: 901422856

El suscrito pagador CERTIFICA, que para el año fiscal 2021 se realizaron los siguientes pagos y se causaron y pagaron los siguientes descuentos

PAGOS Y REINTEGROS

FECHA DE PAGO	DOC ORIGEN	VALOR BRUTO	VALOR DEDUCCION	VALOR NETO	TIPO ORDEN PAGO	TIPO BENEFICIARIO
2021-06-10	126748821	3.157.414.239,42	349.875.327,00	2.807.538.912,42	OP_EPG	Beneficiario final
TOTAL PAGOS		3.157.414.239,42	349.875.327,00	2.807.538.912,42		
VALOR TOTAL INGRESOS			3.157.414.239,42			

DESCUENTOS

FECHA DE REGISTRO	DOC ORIGEN	CODIGO DESCUENTO	NOMBRE DESCUENTO	VALOR BASE	TARIFA	VALOR DEDUCCION
2021-06-10	126748821	2-01-04-02-01-03	RETE IVA - SERVICIOS GRAVADOS - RÉGIMEN	28.088.186,00	15,00	4.213.228,00
2021-06-10	126748821	2-10-01	CONTRIBUCIÓN CONTRATO OBRA PÚBLICA	3.840.689.978,00	5,00	192.034.499,00
2021-06-10	126748821	2-03-80-01	PRO-UNIVERSIDAD NACIONAL Y DEMAS UNIVERSIDADES	3.840.689.978,00	2,00	76.813.800,00
2021-06-10	126748821	2-01-04-01-14	RETEFUENTE - CONTRATOS DE OBRA	3.840.689.978,00	2,00	76.813.800,00
TOTAL DEDUCCIONES APLICADAS						349.875.327,00

DEVOLUCION DEDUCCIONES

FECHA DE REGISTRO	CUENTA POR PAGAR	CODIGO DESCUENTO	NOMBRE DESCUENTO	VALOR BASE	TARIFA	VALOR DEDUCCION
SUB-TOTAL DEVOLUCION DEDUCCIONES						
TOTAL DEDUCCIONES						349.875.327,00

Así mismo certifica que los descuentos aplicados se consignaron oportunamente, de acuerdo con las fechas establecidas por la ley y los entes administradores de los descuentos aplicados.

Certificado expedido en la K R 59 26 21 BOGOTA D.C. COLOMBIA a los 2 días del mes de Julio del año 2021

Pagador (a)

(Según el artículo 10 del decreto 836 de 1991 no requiere firma autógrafa)

POLICIA NACIONAL DE COLOMBIA
DIRAF DIR.ADTIVA.Y FCIERA
NIT: 800141397-5

COMPROBANTE DE EGRESO

DOCUMENTO EGRESO
No. 1500012159

ACREEDOR	**RECEPTOR PAGO ALTERNATIVO**	
CONSORCIO OBRAS POLICIA 2020	CONSORCIO OBRAS POLICIA 2020	FECHA DE PAGO: 10.06.2021
Nit/CC : 901422856	Nit/CC : 901422856	CIUDAD: BOGOTA
Telefax :	Telefax :	CONCEPTO DE GASTO: Inversion
Telefono :	Telefono :	PAGO POR CHEQUE:
Dirección : CAN	Dirección : CAN	ID. CUENTA:
		CUENTA BANCARIA:

RESUMEN IMPUESTOS Y RETENCIONES

Obligac.	Fact.	Doc.SAP	Vlr.Facturado	IVA	RetelVA	Vlr.RetFte	RetelCA	Otras Reten.	Vlr. A Pagar
CTO 06-6-1	FAC FE 6-8	5100000331	3.157.414.239,42	0,00	4.213.228,00	76.813.800,00	0,00	268.848.299,00	2.807.538.912,42
	TOTALES		0,00	0,00	4.213.228,00	76.813.800,00	0,00	268.848.299,00	2.807.538.912,42

RESUMEN CONTABLE

Pos.	Clv.	Cuenta.	Tex. Cuenta Contable	Nit.	C.costo	Valores Debe	Haber
001	50	4705100000	Inversion			0,00	2.807.538.912,42
002	25	2401020010	Bienes y Servicios	901422856		2.807.538.912,42	0,00

TOTALES	2.807.538.912,42	2.807.538.912,42

SON: DOS MIL OCHOCIENTOS SIETE MILLONES QUINIENTOS TREINTA Y OCHO MIL NOVECIENTOS DOCE PESOS CON CUARENTA Y DOS CENTAVOS M/CTE

DESCRIPCION :06-6-10142-20

Tesorero / Pagador

IT Julian Rocha

Beneficiario

DIRAF ARFIN-GUTEG4

De: DIRAF ARFIN-GUTEG4
Enviado el: viernes, 02 de julio de 2021 2:47 p. m.
Para: licitaciones@fernandoramirez.com.co.scmail.co; licitaciones@myhingenieros.com.co.scmail.co; diego.pena2218 @correo.policia.gov.co.scmail.co
Asunto: Notificación pago Policía Nacional y descuentos realizados.
Datos adjuntos: DEDUCCIONES CONSORCIO OBRAS POLICIA 2020.pdf; TURNO 21 INV- 84 RSVA.pdf

MINISTERIO DE DEFENSA NACIONAL
POLICÍA NACIONAL
DIRECCIÓN ADMINISTRATIVA Y FINANCIERA

TODOS POR UN NUEVO PAÍS
PAZ EQUIDAD EDUCACIÓN

Señores
CONSORCIO OBRAS POLICIA 2020
Bogotá.

Cordial saludo,

Teniendo en cuenta el Decreto 2674 del 21 de diciembre de 2012, **artículo 16. Pago a beneficiario final**, por medio del cual establece que las entidades y órganos ejecutores del SIIF Nación (Sistema Integrado de Información Financiera del Ministerio de Hacienda y Crédito Público) deberán efectuar el pago de las obligaciones a los beneficiarios finales directamente a través de dicho aplicativo con abono a una cuenta bancaria, previamente registrada y validada en el mismo; me permito comunicar que esta Tesorería efectuó el pago de las obligaciones contraídas con su empresa, tal y como se puede evidenciar en la orden de pago anexa al presente correo.

Es de anotar, que la orden de pago fue exportada directamente del aplicativo y discrimina los descuentos por impuestos que fueron afectados en la obligación (concepto y valor), en cumplimiento al Decreto 019 de 2012 "**ARTÍCULO 28. COMPROBANTES DE DESCUENTOS Y RETENCIONES:** Las entidades públicas y las privadas que cumplan funciones administrativas o presten servicios públicos que paguen o abonen en cuenta a favor de cualquier persona una obligación a su cargo deberán certificar los descuentos o las retenciones que le hayan sido practicados al beneficiario con indicación precisa de la norma legal con que se haya procedido. Para tal efecto, podrán enviar la certificación a la dirección electrónica que haya registrado el beneficiario e implementar en su página Web, un mecanismo para que exclusivamente los beneficiarios puedan consultar y descargar los comprobantes de pago con la discriminación de los descuentos y retenciones que le fueron practicados."

Cualquier inquietud relacionada con el detalle de la orden de pago, podrá ser consultada con los números telefónicos 5159823 ó 5159464 de la Tesorería General Policía Nacional, únicamente los días 15 de cada mes ó en su defecto el día hábil siguiente.

Atentamente,

Capitán
FABIAN STELIN AGUILERA DÍAZ
Tesorero General Policía Nacional
Teléfono 5159000 Ext. 9552
diraf.arfin-guteg10@policia.gov.co

MINISTERIO DE DEFENSA NACIONAL
POLICIA NACIONAL
Dirección Administrativa y Financiera

Elaboró: TES-17 Michael Yezid Pardo Díaz
TEA-19 Rolfen Andrés Reyes Peña
Fecha: 02/07/2021