



Avda. Uruguay #385 Dpto N° 92-51
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**"DISEÑO DE INGENIERIA CIRCUITO VIAL
PLAZA DE ARMAS – PLAZUELA SAN FRANCISCO, QUILLOTA"**

**ANEXO D
TOPOGRAFÍA**

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1 PRESENTACIÓN

A petición de la Empresa Consultora DARE INGENIEROS LTDA. se realizaron los Trabajos Topográficos, necesarios para la obtención de un Levantamiento Topográfico, con la finalidad de realizar un proyecto de pavimentación de circuito vial y peatonal que conecta la Plaza de Armas y la Plazuela San Francisco de la ciudad de Quillota, de esta manera poder realizar los estudios de Ingeniería para el desarrollo del proyecto.

Los Trabajos Topográficos desarrollados se enmarcan dentro del siguiente contexto:

- Sistema coordenadas U.T.M
- Levantamiento Topográfico.
- Establecimiento de Punto de Referencia PR.

El presente Informe Técnico, describe el desarrollo de las diversas etapas del trabajo, los cuales fueron realizados durante el mes de Marzo 2008.

2 ETAPAS DEL TRABAJO

2.1 LEVANTAMIENTO TOPOGRÁFICO

Para realizar el trabajo se hizo un levantamiento topográfico del terreno, incluyéndose elementos tales como: veredas, postes, construcciones, accesos, árboles, etc., elementos que entregan información de las condiciones actuales del lugar.

El levantamiento topográfico, se realizó mediante el Método Polar, es decir la medición de ángulos y distancia hacia los puntos característicos, ubicando el instrumental en los vértices con coordenadas conocidas. Para tal efecto se empleo una estación total de precisión angular al segundo de arco centesimal.

El levantamiento fue vinculado a la Proyección UTM. , mediante el uso de receptores satelitales, referenciado mediante método estático.

El terreno en el cual se realizaron los trabajos topográficos es el siguiente:



Figura 1. Planta general circuito vial Plaza de Armas – Plazuela San Francisco.

2.2 PROCESAMIENTO DE LA INFORMACIÓN

La información de las mediciones realizadas con la estación total para las mediciones de los puntos de detalle, fue procesada mediante Software y planilla Excel, las que con posterioridad son traspasadas a archivo DWG.

2.3 CARTOGRAFÍA

De acuerdo a los requerimientos del Trabajo, se confeccionó un Plano a escala 1:1, en el cual están representados las características morfológicas del terreno, estructuras existentes, cercos y todo detalle relevante del terreno.

Con los antecedentes de terreno procesados se generó un archivo magnético en extensión. DWG compatible con Auto CAD.



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En el plano topográfico se identifican los siguientes elementos:

- Calzadas
- Aceras
- Soleras
- Cámaras de alcantarillado
- Cámaras de agua potable
- Cámaras de inspección
- Cámaras de válvulas
- Cámaras de gas
- Cámaras de telefonía
- Grifos
- Postes de hormigón con y sin luminaria
- Postes de madera
- Tensores
- Basureros
- Señal de tránsito
- Árboles
- arbustos

2.4 INSTRUMENTAL Y EQUIPOS UTILIZADOS

Estación Total

Equipos de comunicación.

Accesorios topográficos varios.

Computador Personal.

2.5 SIMBOLOGIA

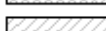
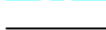
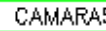
SIMBOLOGIA	
PAVIMENTACION	
	VEREDA Hc. EXISTENTE A MANTENER
	VEREDA Hc. EXISTENTE A DEMOLER
	CALZADA ASFALTO EXIST. A MANTENER
	CALZADA ASFALTO EXIST. A DEMOLER
	CALZADA HORMIGON A MANTENER
	CALZADA HORMIGON A DEMOLER
	SOLERA EXISTENTE A MANTENER
	SOLERA EXISTENTE A DEMOLER
	LINEA DE CIERRO EXISTENTE
	SOLERA REBAJADA EXIST. A MANTENER
	SOLERA REBAJADA EXIST. A DEMOLER
	ZARPA EXISTENTE A MANTENER
	ZARPA EXISTENTE A DEMOLER
	BADEN EXISTENTE
	BORDE TALUD EXISTENTE
	ACEQUIA O CANAL EXISTENTE
	EJE CALZADA EXISTENTE
	SENTIDO ESCURRIMIENTO DE LAS AGUAS
	ENTRADA ACCESO VEHICULAR
	ACCESO RODADO EXISTENTE
CAMARAS	
	CAMARA ALCANTARILLADO
	CAMARA AGUA POTABLE
	CAMARA INSPECCION DOMICILIARIA
	CAMARA CUADRADA INSPECCION
	CAMARA DE VALVULAS
	CAMARA DE GAS
	CAMARA DE TELEFONIA
GRIFOS	
	GRIFO EXISTENTE
POSTES	
	POSTE DE HORMIGON
	POSTE DE HORMIGON C/LUM.
	POSTE DE MADERA
	POSTE DE MADERA C/LUM.
	SENSOR
REDES EXISTENTES	
	ALCANTARILLADO EXISTENTE
	AGUA POTABLE EXISTENTE
	VALVULA AGUA POTABLE EN CAMARA
MOBILIARIO URBANO	
	BASURERO EXISTENTE
	CABINA TELEFONICA
TRANSITO	
	SEÑAL DE TRANSITO
	PARADERO
ARBOLES	
	PALMERA
	ARBOL
	ARBUSTO
TOPOGRAFIA	
	ESTACION
	MONOLITO Hcv.
	PUNTO TOPOGRAFICO
	COTA TERRENO
	CALICATA
	ESTATIGRAFIA TALUD

Tabla 1. Simbología

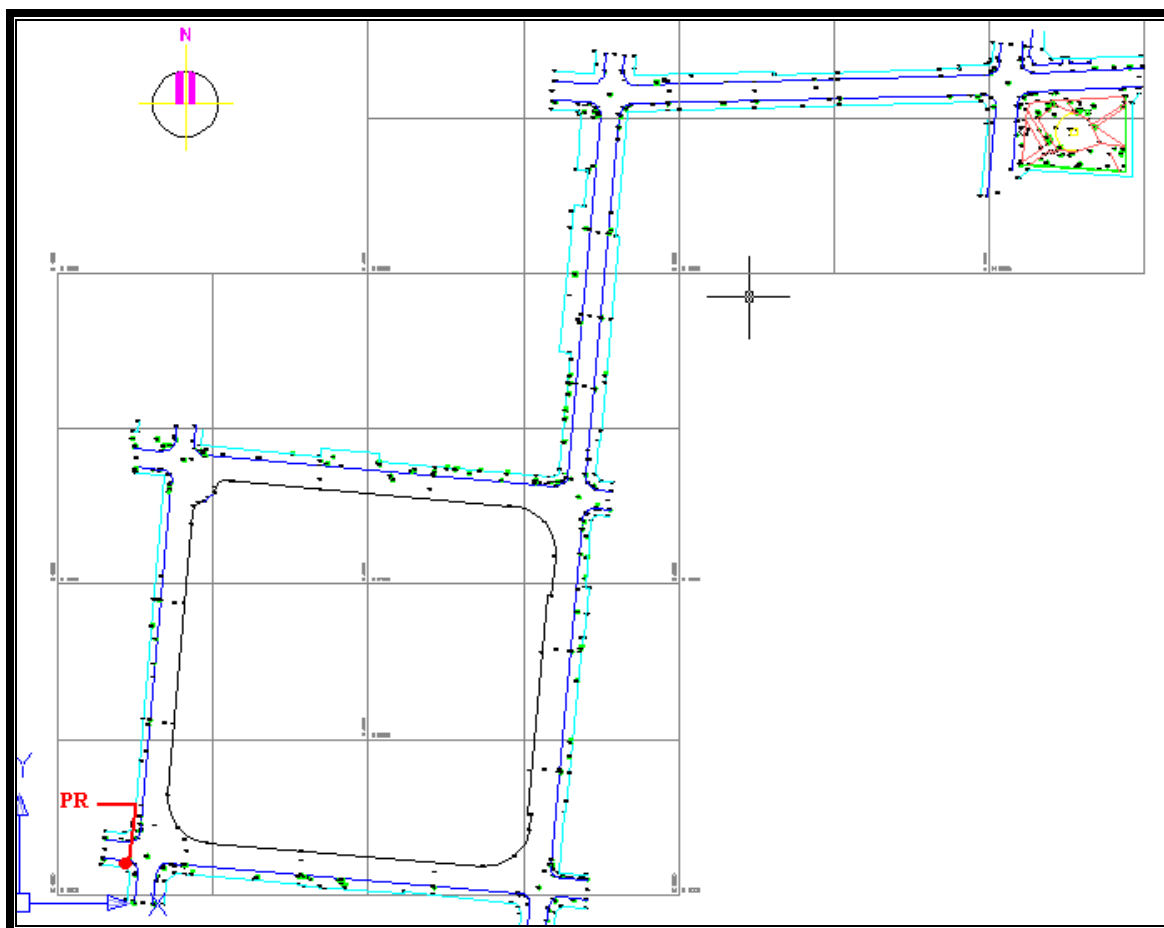


Figura 2. Ubicación Punto de Referencia

2.6 PUNTOS Y COTAS OBTENIDAS

2.6.1 Estaciones y PR

CUADRO MONOLITOS Y PR				
ESTACION	NORTE	ESTE	COTA	DESCRIPCION
PR.1	5002.39	4985.356	100.084	Vértice muro
	0			
PR.2	4882.42	5021.277	90.513	Monolito Fe. 10 mm
	5			
PR.3	4715.05	5112.761	73.904	Monolito Fe. 10 mm
	4			

PR.4	4961.59 8	5216.605	93.431	Clavo Hilti en Solera
------	--------------	----------	--------	--------------------------

Tabla 2. Coordenadas y cotas Monolitos y PR

CUADRO DE ESTACIONES				
ESTACION	NORTE	ESTE	COTA	DESCRIPCION
EST.1	5000.00 0	5000.000	100.00	Clavo
EST. 2	4899.12 9	5017.741	92.921	Clavo
EST. 3	4756.95 5	5051.670	77.890	Clavo
EST. 4	4724.84 9	5087.259	73.236	Clavo
EST. 5	4786.40 1	5089.214	77.441	Clavo
EST. 6	4905.78 9	5101.405	86.704	Clavo
EST. 7	4961.23 9	5231.459	93.667	Clavo

Tabla 3. Coordenadas y cotas de Estaciones

CUADRO MONOLITOS Y PR				
ESTACION	NORTE	ESTE	COTA	DESCRIPCION
1	5010.56 9	4872.137	99.302	Cabeza Grifo
2	5135.37 8	4885.663	101.063	Cabeza Grifo
3	5254.09 0	5019.974	102.894	Cabeza Grifo
4	5264.94 5	5150.683	103.284	Cabeza Grifo

Tabla 4. Coordenadas de Monolitos y PR

2.6.2 Base de Datos

PTO	NORTE	ESTE	COTA	DESC
1	5.000.000	5.000.000	100.000	E1
2	5.007.063	5.011.393	100.026	33
3	5.005.230	5.012.401	99.994	S
4	5.006.064	5.009.718	99.933	S
5	5.009.186	5.008.696	99.879	S
6	5.006.164	5.010.047	99.955	V
7	5.008.116	5.009.699	99.991	CI40
8	5.009.708	5.009.420	99.964	CI2
9	5.009.775	5.008.512	99.815	AALL
10	5.007.351	5.007.251	99.870	V
11	5.008.543	5.009.539	99.992	SE
12	5.011.215	5.009.381	99.996	8
13	5.002.303	5.004.849	99.924	CI
14	5.005.920	5.012.881	100.042	SE
15	5.005.587	5.013.344	100.028	CI4
16	5.005.445	5.014.947	100.035	8
17	5.005.271	5.015.550	100.019	5
18	5.005.197	5.018.540	100.063	CI2
19	5.005.337	5.019.369	100.071	TEF
20	5.005.009	5.019.918	100.065	CI4
21	5.004.838	5.020.531	100.061	6
22	5.006.465	5.020.599	100.125	3
23	5.004.540	5.020.508	100.043	S
24	5.001.544	5.020.744	99.980	1
25	4.998.473	5.020.491	99.962	S
26	4.998.161	5.020.309	99.982	5
27	4.995.696	5.020.226	99.992	3
28	4.998.161	5.016.292	99.953	6
29	4.996.262	5.012.477	99.903	33
30	4.994.302	5.010.201	99.886	33
31	4.987.376	5.009.525	99.839	3
32	4.987.561	5.007.698	99.798	5
33	4.987.588	5.007.080	99.759	S
34	4.987.903	5.004.083	99.646	1
35	4.987.974	5.001.063	99.729	S
36	4.988.018	5.000.872	99.750	BAS
37	4.993.820	4.998.958	99.907	3
38	4.995.942	4.998.322	99.970	3
39	4.997.205	4.996.074	100.013	3
40	4.991.673	5.007.752	99.825	6
41	4.994.751	5.008.406	99.820	CI2
42	4.995.592	5.008.007	99.832	S



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43	4.998.457	5.009.568	99.905	S
44	4.999.202	5.012.401	99.889	S
45	4.998.035	5.010.141	99.912	CI
46	5.026.618	5.013.227	100.180	3
47	5.029.961	5.013.994	100.221	3
48	5.039.090	5.014.851	100.265	3
49	5.039.328	5.012.079	100.206	6
50	5.040.143	5.011.929	100.219	8
51	5.039.480	5.011.437	100.169	S
52	5.040.145	5.006.956	100.150	1
53	5.044.363	5.014.795	100.291	CI2
54	5.048.930	5.015.139	100.295	LLC
55	5.068.555	5.017.316	100.472	LLC
56	5.078.141	5.018.416	100.578	3
57	5.078.340	5.015.658	100.512	6
58	5.078.327	5.015.057	100.464	S
59	5.078.778	5.010.589	100.442	1
60	5.079.078	5.018.477	100.539	LLC
61	5.082.593	5.018.871	100.609	33
62	5.090.217	5.020.642	100.730	3
63	5.090.912	5.017.392	100.597	FON
64	5.098.644	5.021.320	100.724	33
65	5.098.754	5.020.024	100.701	33
66	5.098.169	5.017.502	100.656	8
67	5.101.657	5.019.859	100.702	LLC
68	5.109.633	5.018.417	100.730	8
69	5.133.686	5.015.436	100.890	E2
70	5.142.995	5.021.049	101.027	A2
71	5.025.665	5.002.586	99.980	3
72	5.020.927	5.001.997	99.932	3
73	5.012.471	4.997.158	99.853	3
74	5.009.235	4.987.316	99.797	3
75	4.999.554	4.998.707	100.009	SE
76	5.000.557	4.998.249	100.011	S
77	4.996.698	5.001.920	99.874	S
78	4.999.039	5.001.394	99.946	S
79	5.000.059	4.971.071	99.898	3
80	5.002.285	4.971.213	99.863	6
81	5.002.876	4.971.279	99.829	S
82	5.007.322	4.971.904	99.814	1
83	5.001.042	4.961.752	99.841	33
84	5.001.910	4.936.280	99.715	3
85	5.003.752	4.941.643	99.692	CI2
86	5.004.561	4.940.694	99.672	CI2
87	5.004.697	4.941.712	99.687	CI2
88	5.002.306	4.942.668	99.706	LLC



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89	5.002.810	4.934.561	99.696	CI2
90	5.002.558	4.930.006	99.702	33
91	5.002.952	4.930.020	99.674	33
92	5.004.928	4.931.466	99.610	CI2
93	5.005.506	4.930.489	99.601	CI2
94	5.005.696	4.929.446	99.597	CI2
95	5.005.740	4.927.693	99.601	CI2
96	5.003.301	4.927.784	99.651	3
97	5.006.431	4.928.502	99.576	6
98	5.006.461	4.928.550	99.577	S
99	5.011.026	4.928.806	99.603	1
100	5.014.100	4.928.887	99.560	3
101	5.005.533	4.914.522	99.564	FON
102	5.004.526	4.913.563	99.583	33
103	5.004.770	4.913.569	99.577	33
104	5.017.781	4.874.523	99.273	E3
105	5.017.610	4.891.300	99.355	A3
106	5.006.551	4.893.367	99.416	LLC
107	5.006.580	4.891.472	99.424	3
108	5.008.713	4.890.943	99.388	CI20
109	5.009.443	4.890.817	99.378	6
110	5.009.423	4.891.410	99.377	6
111	5.009.511	4.891.446	99.366	S
112	5.014.076	4.891.724	99.371	1
113	5.016.656	4.898.370	99.410	3
114	5.021.397	4.888.992	99.261	3
115	5.032.055	4.885.643	99.258	3
116	5.009.512	4.886.822	99.335	5
117	5.009.396	4.887.412	99.376	5
118	5.009.217	4.887.140	99.384	SE
119	5.009.125	4.887.743	99.375	CI20
120	5.008.542	4.884.275	99.282	CI
121	5.009.325	4.884.060	99.259	VIG
122	5.006.106	4.882.405	99.276	SE
123	5.005.504	4.882.369	99.267	CI20
124	5.004.350	4.882.119	99.252	8
125	5.006.863	4.888.232	99.411	33
126	5.004.224	4.885.031	99.339	33
127	4.996.954	4.884.497	99.269	3
128	4.997.006	4.881.215	99.164	12
129	4.997.051	4.880.913	99.157	S
130	4.997.237	4.877.751	99.113	1
131	4.997.334	4.874.881	99.170	S
132	4.997.357	4.874.577	99.170	12
133	4.998.255	4.872.470	99.264	3
134	5.006.446	4.875.359	99.259	CI

135	5.006.960	4.875.743	99.239	S
136	5.009.762	4.874.991	99.135	S
137	5.011.084	4.872.205	99.290	S
138	5.010.569	4.872.137	99.302	GR
139	5.010.643	4.872.048	99.997	PR
140	5.010.562	4.873.050	99.272	LLC
141	5.007.202	4.873.241	99.343	33
142	5.008.908	4.871.792	99.339	33
143	5.009.532	4.864.542	99.371	3
144	5.011.383	4.864.850	99.298	6
145	5.011.732	4.864.910	99.268	S
146	5.014.681	4.865.489	99.246	1
147	5.017.812	4.865.553	99.254	S
148	5.018.154	4.865.577	99.270	6
149	5.020.280	4.865.750	99.361	3
150	5.017.980	4.870.818	99.327	5
151	5.019.784	4.871.967	99.375	33
152	5.022.000	4.874.593	99.368	33
153	5.020.526	4.876.906	99.274	S
154	5.018.303	4.875.964	99.153	S
155	5.017.138	4.872.858	99.305	S
156	5.012.362	4.879.045	99.232	CI
157	5.020.962	4.877.252	99.104	AALL
158	5.020.542	4.875.845	99.295	SE
159	5.022.900	4.874.710	99.368	3
160	5.022.609	4.876.926	99.291	6
161	5.022.533	4.877.114	99.261	S
162	5.022.253	4.881.620	99.265	1
163	5.025.051	4.876.787	99.335	8
164	5.028.775	4.877.169	99.370	8
165	5.043.083	4.877.137	99.488	CI15
166	5.046.087	4.878.745	99.476	8
167	5.054.571	4.879.491	99.561	5
168	5.056.615	4.877.715	99.626	3
169	5.056.202	4.879.905	99.562	6
170	5.056.135	4.880.101	99.543	S
171	5.055.202	4.884.609	99.499	1
172	5.055.064	4.887.640	99.451	3
173	5.070.028	4.880.927	99.712	8
174	5.074.295	4.881.203	99.728	5
175	5.082.280	4.881.810	99.811	8
176	5.086.243	4.880.562	99.820	LLC
177	5.095.095	4.881.073	99.950	3
178	5.094.895	4.882.815	99.880	6
179	5.094.847	4.883.486	99.864	S
180	5.093.893	4.887.978	99.791	1

181	5.093.747	4.891.025	99.723	3
182	5.102.348	4.883.571	99.949	5
183	5.142.985	4.896.239	100.142	E4
184	5.125.051	4.893.936	99.944	A4
185	5.119.159	4.893.227	99.906	3
186	5.126.123	4.895.714	99.876	3
187	5.126.482	4.897.451	99.992	S
188	5.128.017	4.898.851	99.991	S
189	5.129.376	4.900.715	100.033	S
190	5.131.143	4.900.930	99.960	3
191	5.133.004	4.906.389	100.027	3
192	5.129.412	4.885.709	100.154	SE
193	5.129.964	4.886.100	100.164	8
194	5.130.911	4.886.186	100.168	6
195	5.131.911	4.886.105	100.151	CI2
196	5.135.378	4.885.663	101.063	GR
197	5.132.587	4.886.754	100.146	S
198	5.135.420	4.886.184	100.065	S
199	5.136.774	4.883.343	100.149	S
200	5.136.120	4.883.276	100.167	SE
201	5.134.886	4.884.549	100.198	33
202	5.136.537	4.880.733	100.146	5
203	5.135.678	4.875.337	100.194	3
204	5.137.144	4.875.339	100.165	7
205	5.137.550	4.875.372	100.110	S
206	5.140.398	4.875.714	100.101	1
207	5.143.609	4.874.913	100.120	S
208	5.144.274	4.875.132	100.105	12
209	5.146.781	4.874.252	100.249	FON
210	5.146.572	4.882.183	100.202	FON
211	5.148.998	4.874.541	100.276	3
212	5.148.835	4.875.920	100.292	33
213	5.152.241	4.876.294	100.343	3
214	5.150.681	4.888.299	100.196	S
215	5.146.607	4.888.255	99.997	AALL
216	5.147.373	4.887.995	100.179	S
217	5.144.567	4.887.378	100.095	S
218	5.142.802	4.883.532	100.141	S
219	5.144.169	4.884.398	100.183	LLC
220	5.144.555	4.886.145	100.169	CI
221	5.150.895	4.894.346	100.180	S
222	5.145.907	4.893.932	100.161	S
223	5.143.526	4.894.254	100.124	S
224	5.141.587	4.897.521	100.127	S
225	5.141.082	4.897.906	99.976	AALL
226	5.141.951	4.897.253	100.149	6

227	5.142.554	4.896.820	100.158	SE
228	5.143.264	4.898.177	100.179	CI15
229	5.144.669	4.896.196	100.193	33
230	5.139.877	4.890.694	100.096	CI
231	5.140.228	4.893.459	100.043	CI15
232	5.141.504	4.903.511	100.156	8
233	5.140.510	4.914.983	100.180	8
234	5.141.703	4.925.659	100.295	LLC
235	5.130.458	4.934.632	100.139	3
236	5.133.627	4.934.586	100.225	1
237	5.138.193	4.934.748	100.291	S
238	5.139.629	4.934.700	100.295	CI2
239	5.140.996	4.934.588	100.367	33
240	5.138.717	4.936.859	100.346	CI2
241	5.140.813	4.938.835	100.390	CI2
242	5.138.012	4.941.465	100.371	5
243	5.139.162	4.953.560	100.470	33
244	5.138.689	4.953.263	100.428	LLC
245	5.138.339	4.953.890	100.427	CI2
246	5.136.138	4.964.069	100.437	CI2
247	5.136.863	4.965.079	100.474	CI2
248	5.135.972	4.971.359	100.473	CI2
249	5.135.233	4.971.220	100.492	6LUM
250	5.137.512	4.971.521	100.545	3
251	5.134.859	4.971.155	100.470	S
252	5.130.409	4.969.991	100.389	1
253	5.127.396	4.968.149	100.308	3
254	5.133.483	4.957.933	100.318	CI
255	5.134.784	4.957.166	100.290	CI
256	5.135.470	4.982.678	100.590	CI2
257	5.133.378	4.993.000	100.613	8
258	5.135.362	4.994.818	100.629	LLC
259	5.136.263	4.986.157	100.642	LLC
260	5.136.650	4.978.245	100.574	LLC
261	5.136.902	4.975.432	100.543	LLC
262	5.142.981	5.021.040	101.026	A2
263	5.134.729	5.004.115	100.867	3
264	5.133.382	5.004.012	100.764	CI2
265	5.132.366	5.005.452	100.784	CI40
266	5.132.437	5.008.644	100.845	CI40
267	5.132.523	5.003.975	100.781	6LUM
268	5.125.056	4.995.808	100.594	3
269	5.119.869	5.006.882	100.629	3
270	5.108.873	5.010.334	100.572	3
271	5.096.131	5.009.002	100.466	33
272	5.077.973	5.005.874	100.281	3

273	5.039.942	5.002.235	100.013	3
274	5.082.456	5.019.762	100.779	33
275	5.109.671	5.018.450	100.724	8
276	5.108.296	5.020.525	100.752	LLC
277	5.115.299	5.020.449	100.891	CI2
278	5.117.670	5.019.011	100.794	6
279	5.120.250	5.019.347	100.810	CI2
280	5.120.627	5.018.925	100.742	S
281	5.123.138	5.020.153	100.835	S
282	5.124.227	5.023.323	100.881	S
283	5.123.818	5.023.662	100.909	CI20
284	5.124.577	5.023.732	100.768	LLC
285	5.122.531	5.020.614	100.844	SE
286	5.120.398	5.021.915	100.889	33
287	5.122.056	5.023.717	100.941	33
288	5.123.757	5.024.671	100.918	5
289	5.121.772	5.027.347	101.004	3
290	5.123.651	5.027.866	100.944	6
291	5.123.903	5.027.872	100.926	S
292	5.126.930	5.027.474	100.907	1
293	5.129.945	5.028.373	100.990	S
294	5.132.720	5.028.760	101.054	3
295	5.133.028	5.025.034	101.038	33
296	5.135.326	5.023.198	101.024	33
297	5.134.887	5.020.261	100.973	S
298	5.132.421	5.020.730	100.950	S
299	5.130.313	5.023.673	100.938	S
300	5.131.605	5.022.615	100.966	CI
301	5.127.990	5.017.616	100.859	CI
302	5.135.304	5.020.069	100.820	AALL
303	5.134.054	5.014.133	100.894	S
304	5.132.644	5.013.207	100.838	S
305	5.131.448	5.010.648	100.817	S
306	5.132.393	5.009.138	100.843	SE
307	5.132.230	5.007.568	100.822	8
308	5.132.836	5.011.005	100.870	CI
309	5.133.147	5.012.651	100.891	CV
310	5.135.468	5.013.443	100.937	SE
311	5.134.351	5.008.806	100.895	3
312	5.134.985	5.010.822	100.940	3
313	5.136.670	5.011.603	100.984	3
314	5.140.023	5.021.169	101.028	8
315	5.146.200	5.024.185	101.121	3
316	5.149.307	5.025.007	101.168	3
317	5.145.449	5.013.112	101.016	LLC
318	5.152.796	5.013.509	101.072	LLC

319	5.155.658	5.014.141	101.081	CI15
320	5.155.906	5.013.609	101.089	LLC
321	5.160.822	5.014.617	101.128	LLC
322	5.164.185	5.014.833	101.146	LLC
323	5.166.772	5.014.947	101.180	LLC
324	5.164.590	5.014.280	101.186	3
325	5.164.385	5.016.899	101.138	S
326	5.163.601	5.019.803	101.153	1
327	5.162.883	5.022.801	101.174	S
328	5.162.752	5.023.049	101.191	6
329	5.164.777	5.026.446	101.300	3
330	5.167.060	5.026.184	101.276	LLC
331	5.172.140	5.015.433	101.247	CI15
332	5.174.383	5.015.174	101.341	33
333	5.184.954	5.017.506	101.343	8
334	5.184.012	5.018.308	101.279	6LUM
335	5.185.217	5.028.218	101.511	3
336	5.185.703	5.025.309	101.379	6
337	5.185.745	5.024.897	101.351	S
338	5.186.320	5.021.647	101.331	1
339	5.186.518	5.018.922	101.281	S
340	5.192.915	5.015.075	101.437	PILAR
341	5.199.656	5.016.618	101.452	FON
342	5.214.779	5.015.129	101.583	3
343	5.219.919	5.015.416	101.709	3
344	5.214.391	5.020.104	101.544	CI
345	5.213.968	5.021.416	101.522	S
346	5.213.119	5.024.233	101.531	1
347	5.212.847	5.027.700	101.557	6
348	5.212.761	5.027.421	101.542	S
349	5.211.921	5.029.868	101.579	3
350	5.213.839	5.028.210	101.522	CI2
351	5.219.288	5.028.367	101.619	5
352	5.219.507	5.028.456	101.622	5
353	5.221.392	5.019.808	101.637	33
354	5.233.207	5.020.766	101.732	33
355	5.232.420	5.020.996	101.696	LLC
356	5.234.439	5.022.623	101.713	8
357	5.252.051	5.022.905	101.851	E5
358	5.267.148	5.023.738	101.988	A5
359	5.265.119	5.010.404	102.026	3
360	5.262.147	5.010.521	101.970	8
361	5.261.623	5.010.439	101.926	S
362	5.258.713	5.009.423	101.867	1
363	5.255.659	5.009.881	101.920	S
364	5.255.195	5.009.790	101.959	6

365	5.254.929	5.010.236	101.953	CI2
366	5.252.784	5.009.315	101.956	3
367	5.252.345	5.017.441	101.910	3
368	5.250.988	5.018.365	101.890	3
369	5.233.315	5.017.392	101.804	33
370	5.233.201	5.020.757	101.723	33
371	5.234.540	5.022.671	101.703	8
372	5.242.904	5.030.681	101.799	5
373	5.246.862	5.030.812	101.814	6
374	5.250.556	5.031.389	101.844	CI
375	5.252.882	5.033.050	101.921	CI
376	5.253.679	5.034.430	101.991	SE
377	5.254.102	5.034.977	102.021	7
378	5.254.453	5.035.035	102.016	S
379	5.253.495	5.032.099	101.890	S
380	5.250.957	5.030.859	101.819	S
381	5.250.930	5.024.203	101.813	CI
382	5.250.122	5.022.595	101.836	CI2
383	5.251.952	5.023.955	101.845	8
384	5.253.099	5.023.333	101.823	CI2
385	5.251.217	5.024.856	101.797	S
386	5.253.509	5.023.867	101.788	S
387	5.254.969	5.021.264	101.915	S
388	5.254.134	5.021.333	101.908	SE
389	5.254.090	5.019.974	102.894	GR
390	5.254.490	5.017.662	101.907	5
391	5.251.803	5.019.726	101.888	FON
392	5.257.519	5.027.886	101.869	CI
393	5.265.041	5.026.348	101.753	AALL
394	5.264.897	5.031.949	101.791	AALL
395	5.269.831	5.036.023	102.130	3
396	5.269.890	5.032.606	101.993	S
397	5.270.543	5.029.481	101.962	1
398	5.270.515	5.026.596	101.947	S
399	5.271.298	5.023.210	102.019	3
400	5.264.478	5.032.091	101.936	S
401	5.262.035	5.032.834	101.880	S
402	5.260.523	5.036.176	102.058	S
403	5.265.807	5.035.784	102.117	33
404	5.261.392	5.042.882	102.158	FON
405	5.262.353	5.045.794	102.210	KZT
406	5.254.195	5.041.710	102.115	5
407	5.252.418	5.046.490	102.207	3
408	5.254.493	5.046.594	102.153	6
409	5.254.763	5.046.671	102.144	S
410	5.258.436	5.047.093	102.146	1

411	5.252.560	5.050.203	102.240	33
412	5.254.702	5.064.083	102.238	CI2
413	5.254.771	5.064.814	102.253	CI2
414	5.253.160	5.074.491	102.449	33
415	5.255.104	5.073.943	102.424	8
416	5.255.241	5.075.045	102.430	6
417	5.258.773	5.074.774	102.431	1
418	5.255.574	5.075.100	102.411	S
419	5.253.770	5.090.204	102.619	33
420	5.255.747	5.098.604	102.593	5
421	5.256.043	5.101.872	102.605	6
422	5.254.243	5.101.815	102.620	3
423	5.256.321	5.101.768	102.570	S
424	5.259.503	5.094.367	102.570	1
425	5.257.493	5.163.028	102.348	E6
426	5.264.980	5.177.142	102.400	A6
427	5.257.479	5.163.002	102.342	E5
428	5.265.890	5.184.031	102.384	12
429	5.266.087	5.190.148	102.384	12
430	5.266.369	5.195.208	102.435	12
431	5.266.629	5.199.321	102.445	8
432	5.269.764	5.199.173	102.579	3
433	5.266.082	5.199.295	102.476	S
434	5.263.096	5.198.225	102.463	1
435	5.259.946	5.198.823	102.475	S
436	5.259.470	5.198.187	102.489	5
437	5.257.799	5.198.286	102.531	33
438	5.254.735	5.196.034	102.570	33
439	5.259.371	5.193.432	102.475	6
440	5.259.109	5.192.317	102.479	8
441	5.256.763	5.192.601	102.564	V
442	5.255.911	5.174.656	102.448	V
443	5.251.299	5.177.763	102.557	V
444	5.249.628	5.181.660	102.640	V
445	5.251.145	5.182.131	102.631	CI2
446	5.252.436	5.182.031	102.605	CI2
447	5.252.419	5.180.761	102.596	CI2
448	5.252.765	5.179.710	102.607	CI2
449	5.252.732	5.178.686	102.609	CI2
450	5.251.723	5.178.730	102.609	CI2
451	5.255.125	5.178.936	102.410	CHIM
452	5.252.280	5.177.788	102.463	FAROL
453	5.251.580	5.178.543	102.549	12
454	5.253.767	5.183.702	102.426	12
455	5.255.224	5.175.936	102.375	12
456	5.253.961	5.171.533	102.382	V

457	5.255.673	5.170.539	102.383	V
458	5.255.470	5.165.533	102.339	V
459	5.254.634	5.162.715	102.341	V
460	5.252.691	5.161.939	102.310	V
461	5.241.280	5.168.731	102.337	V
462	5.242.212	5.170.150	102.321	V
463	5.241.997	5.169.026	102.279	FAROL
464	5.245.984	5.166.198	102.294	FAROL
465	5.249.946	5.165.609	102.317	VV
466	5.254.238	5.170.821	102.323	12
467	5.254.270	5.170.096	102.329	12
468	5.254.607	5.169.011	102.318	12
469	5.252.615	5.168.824	102.303	12
470	5.251.716	5.165.670	102.284	12
471	5.242.573	5.169.572	102.303	12
472	5.243.712	5.168.562	102.305	13
473	5.240.181	5.167.004	102.290	V
474	5.235.964	5.160.423	102.146	V
475	5.249.188	5.161.519	102.266	V
476	5.246.733	5.160.482	102.221	QC
477	5.246.185	5.162.405	102.256	QC
478	5.244.540	5.162.130	102.240	QC
479	5.234.997	5.162.806	102.183	V
480	5.234.440	5.170.396	102.194	V
481	5.238.402	5.168.113	102.293	V
482	5.236.916	5.166.479	102.227	FAROL
483	5.235.396	5.168.450	102.098	12
484	5.239.542	5.169.882	102.322	W
485	5.238.528	5.170.487	102.312	W
486	5.239.484	5.171.958	102.337	W
487	5.238.398	5.173.891	102.346	W
488	5.237.770	5.175.826	102.351	W
489	5.233.881	5.178.106	102.302	W
490	5.233.633	5.181.203	102.384	W
491	5.239.285	5.177.706	102.335	W
492	5.238.562	5.176.677	102.383	12
493	5.240.424	5.172.772	102.387	12
494	5.235.006	5.178.997	102.328	12
495	5.234.340	5.178.420	102.273	FAROL
496	5.238.007	5.172.746	102.359	FAROL
497	5.233.271	5.185.580	102.363	V
498	5.232.903	5.191.801	102.468	V
499	5.234.412	5.193.544	102.475	V
500	5.240.726	5.193.731	102.478	V
501	5.238.370	5.188.902	102.506	V
502	5.241.978	5.185.730	102.526	V

503	5.247.654	5.182.768	102.649	V
504	5.247.303	5.184.117	102.657	V
505	5.253.676	5.193.741	102.507	V
506	5.254.850	5.193.776	102.543	V
507	5.253.573	5.192.814	102.489	12
508	5.247.032	5.183.734	102.642	12
509	5.238.434	5.192.304	102.372	12
510	5.239.928	5.192.989	102.418	12
511	5.234.335	5.188.171	102.368	FAROL
512	5.239.314	5.182.542	102.463	FAROL
513	5.240.111	5.190.401	102.635	FAROL
514	5.230.970	5.195.872	102.638	33
515	5.244.347	5.176.303	102.954	MO
516	5.246.293	5.176.171	102.953	MO
517	5.246.432	5.178.029	102.859	MO
518	5.246.735	5.171.403	102.723	CIR
519	5.239.413	5.177.773	102.717	CIR
520	5.250.894	5.171.070	102.548	CI2
521	5.241.088	5.160.500	102.181	FON
522	5.230.572	5.159.529	102.082	33
523	5.233.240	5.162.617	102.155	33
524	5.244.410	5.158.634	102.138	6
525	5.248.773	5.159.022	102.185	5
526	5.253.319	5.159.463	102.262	CI2
527	5.254.242	5.160.471	102.274	SEM
528	5.257.691	5.163.618	102.330	SEM
529	5.256.531	5.161.140	102.306	CI
530	5.257.906	5.164.891	102.345	6
531	5.258.125	5.171.513	102.378	6
532	5.257.804	5.170.103	102.375	5
533	5.258.233	5.163.027	102.324	S
534	5.256.675	5.159.841	102.274	S
535	5.253.798	5.158.994	102.238	S
536	5.264.347	5.163.977	102.323	S
537	5.266.064	5.160.997	102.264	S
538	5.268.868	5.160.365	102.339	S
539	5.269.349	5.160.242	102.171	AALL
540	5.268.500	5.160.064	102.155	AALL
541	5.266.969	5.161.071	102.352	6S
542	5.268.554	5.160.976	102.362	SEM
543	5.269.057	5.160.962	102.373	8
544	5.273.072	5.161.316	102.421	6
545	5.271.835	5.167.328	102.630	33
546	5.268.970	5.170.086	102.560	33
547	5.269.079	5.182.970	102.549	S
548	5.267.800	5.182.239	102.470	S

549	5.267.563	5.176.393	102.458	S
550	5.269.248	5.175.479	102.575	S
551	5.269.170	5.173.766	102.572	S
552	5.267.376	5.172.949	102.434	S
553	5.267.009	5.164.714	102.393	S
554	5.269.643	5.163.019	102.411	S
555	5.272.762	5.163.305	102.453	S
556	5.273.591	5.157.245	102.393	1
557	5.273.866	5.153.812	102.415	S
558	5.274.169	5.151.307	102.470	3
559	5.268.890	5.150.855	102.392	3
560	5.267.697	5.150.315	102.416	3
561	5.267.122	5.148.972	102.462	3
562	5.269.150	5.152.661	102.381	SEM
563	5.268.125	5.153.343	102.340	S
564	5.265.552	5.152.494	102.320	S
565	5.263.650	5.148.868	102.349	S
566	5.264.282	5.150.584	102.342	CI10
567	5.264.945	5.150.683	103.284	GR
568	5.265.923	5.151.710	102.357	8
569	5.266.824	5.140.560	102.468	33
570	5.265.711	5.140.449	102.448	33
571	5.265.499	5.134.240	102.462	3
572	5.263.244	5.134.711	102.399	S
573	5.262.276	5.101.353	102.546	S
574	5.264.433	5.101.151	102.607	3
575	5.262.689	5.099.278	102.597	8
576	5.262.489	5.093.646	102.579	CI2
577	5.263.795	5.080.862	102.515	33
578	5.261.531	5.074.659	102.395	S
579	5.261.580	5.065.476	102.316	8
580	5.263.545	5.054.064	102.242	3-7
581	5.256.948	5.137.372	102.425	6
582	5.257.190	5.144.021	102.402	7
583	5.256.745	5.146.292	102.410	CI
584	5.257.580	5.148.254	102.367	S
585	5.256.411	5.150.829	102.278	S
586	5.253.231	5.151.925	102.153	S
587	5.253.494	5.151.494	102.225	CI
588	5.255.243	5.147.567	102.441	33
589	5.252.645	5.149.621	102.303	33
590	5.248.263	5.151.082	102.224	8
591	5.248.172	5.149.258	102.264	3
592	5.224.834	5.147.229	102.014	3
593	5.224.613	5.149.466	101.948	S
594	5.225.679	5.152.835	101.957	1

595	5.233.288	5.157.177	102.005	S
596	5.235.010	5.159.976	102.116	CI2
597	5.235.089	5.160.262	102.126	AAL
598	5.261.236	5.156.101	102.266	CI
599	5.256.880	5.193.889	102.594	AAL
600	5.065.748	4.963.697	100.809	E1
601	5.127.946	4.946.412	100.448	S
602	5.128.057	4.946.640	100.448	S
603	5.126.751	4.961.232	100.533	S
604	5.124.370	4.988.080	100.668	S
605	5.123.570	4.997.050	100.740	S
606	5.120.878	5.003.907	100.671	S
607	5.099.252	5.007.927	100.618	S
608	5.098.583	5.007.647	100.616	S
609	5.098.033	5.006.979	100.612	S
610	5.097.029	5.006.465	100.603	S
611	5.096.022	5.006.246	100.600	S
612	5.080.088	5.004.743	100.475	S
613	5.062.730	5.003.116	100.345	S
614	5.047.772	5.001.714	100.231	S
615	5.028.003	4.999.921	100.118	S
616	5.024.130	5.000.979	100.066	S
617	5.021.988	5.000.748	100.044	S
618	5.013.050	4.995.477	99.966	S
619	5.010.648	4.986.139	99.890	S
620	5.012.062	4.969.080	99.818	S
621	5.013.277	4.955.040	99.760	S
622	5.014.853	4.935.747	99.680	S
623	5.016.335	4.917.632	99.616	S
624	5.017.946	4.899.085	99.514	S
625	5.021.998	4.890.449	99.439	S
626	5.030.654	4.886.984	99.329	S
627	5.046.025	4.888.318	99.505	S
628	5.061.345	4.889.678	99.660	S
629	5.078.789	4.891.161	99.781	S
630	5.104.168	4.893.390	100.005	S
631	5.118.380	4.894.607	100.134	S
632	5.128.570	4.899.682	100.172	S
633	5.131.376	4.908.767	100.287	S
634	5.258.224	5.163.048	102.321	S
635	5.257.208	5.160.333	102.296	S
636	5.253.806	5.158.941	102.252	S
637	5.258.562	5.217.527	102.638	3
638	5.260.741	5.217.460	102.561	S
639	5.260.915	5.217.476	102.438	C
640	5.263.546	5.217.265	102.541	1

641	5.266.855	5.217.143	102.440	C
642	5.266.954	5.217.150	102.548	S
643	5.270.583	5.217.008	102.649	3
644	5.271.154	5.228.262	102.733	3
645	5.267.303	5.228.414	102.466	C
646	5.264.450	5.228.216	102.599	1
647	5.261.420	5.228.381	102.484	C
648	5.258.916	5.228.718	102.748	3
649	5.260.790	5.226.573	102.617	6
650	5.268.271	5.228.193	102.567	12
651	5.267.923	5.223.169	102.330	12
652	5.267.700	5.217.024	102.488	12
653	5.267.375	5.211.146	102.386	12
654	5.260.143	5.210.732	103.087	12
655	5.267.084	5.206.955	102.525	8
656	5.267.038	5.205.535	102.490	12
657	5.266.745	5.200.094	102.421	12
658	5.266.684	5.199.313	102.511	12
659	5.269.671	5.197.556	102.566	3
660	5.265.978	5.197.675	102.462	S
661	5.265.894	5.197.706	102.375	C
662	5.262.976	5.197.834	102.453	1
663	5.259.952	5.198.156	102.347	C
664	5.259.845	5.198.157	102.493	S
665	5.257.737	5.198.219	102.542	3
666	5.259.042	5.182.329	102.424	S
667	5.259.160	5.182.288	102.326	C
668	5.261.951	5.181.754	102.394	1
669	5.265.131	5.181.533	102.285	C
670	5.265.251	5.181.486	102.400	S
671	5.274.070	5.151.296	102.492	3
672	5.273.850	5.153.666	102.418	S
673	5.273.845	5.153.828	102.322	C
674	5.273.684	5.157.246	102.390	1
675	5.273.237	5.160.731	102.288	C
676	5.273.265	5.160.866	102.370	S
677	5.273.085	5.163.298	102.455	S
678	5.292.926	5.152.826	102.673	3
679	5.292.838	5.155.226	102.612	S
680	5.292.823	5.155.366	102.481	C
681	5.292.231	5.158.865	102.533	1
682	5.291.925	5.162.262	102.442	C
683	5.291.907	5.162.429	102.567	S
684	5.291.936	5.164.886	102.621	S
685	5.287.352	5.164.511	102.598	S
686	5.285.280	5.168.366	102.710	3

687	5.311.240	5.170.601	102.987	3
688	5.311.557	5.164.049	102.766	S
689	5.311.641	5.163.919	102.630	C
690	5.312.271	5.160.493	102.739	1
691	5.312.621	5.157.052	102.654	C
692	5.312.700	5.156.940	102.749	S
693	5.312.878	5.155.093	102.828	3
694	5.305.139	5.164.725	102.710	12
695	5.302.931	5.163.666	102.687	6
696	5.280.857	5.161.685	102.468	7
697	5.207.232	5.145.604	101.827	3
698	5.207.123	5.147.679	101.777	S
699	5.206.602	5.154.792	101.678	C
700	5.206.588	5.154.972	101.756	S
701	5.206.527	5.156.367	101.826	3
702	5.207.844	5.155.205	101.794	6
703	5.206.837	5.147.849	101.659	C
704	5.209.664	5.156.135	101.844	CI2
705	5.210.880	5.155.878	101.856	CI2
706	5.214.743	5.157.043	101.900	33
707	5.214.718	5.158.078	101.932	33
708	5.217.993	5.158.351	101.958	3
709	5.218.375	5.155.981	101.864	S
710	5.218.399	5.155.835	101.791	C
711	5.218.941	5.152.450	101.885	1
712	5.219.278	5.148.899	101.814	C
713	5.219.332	5.148.740	101.876	S
714	5.219.500	5.146.672	101.956	3
715	5.231.236	5.147.736	102.070	3
716	5.231.003	5.149.784	102.009	S
717	5.231.017	5.149.942	101.928	C
718	5.230.656	5.153.287	101.994	1
719	5.230.625	5.156.896	101.919	C
720	5.230.643	5.157.013	101.995	S
721	5.230.567	5.159.467	102.083	3
722	5.242.403	5.148.679	102.187	3
723	5.242.083	5.150.806	102.122	S
724	5.242.075	5.150.906	102.020	C
725	5.241.803	5.154.396	102.115	1
726	5.241.199	5.157.833	102.022	C
727	5.241.157	5.157.979	102.111	S
728	5.263.527	5.140.409	102.395	S
729	5.260.437	5.140.282	102.391	1
730	5.257.385	5.140.495	102.272	C
731	5.257.247	5.140.551	102.397	S
732	5.255.123	5.140.383	102.449	3

733	5.254.314	5.108.613	102.535	3
734	5.256.392	5.108.702	102.489	S
735	5.256.518	5.108.678	102.371	C
736	5.259.321	5.108.730	102.487	1
737	5.262.502	5.108.806	102.378	C
738	5.262.674	5.108.782	102.515	S
739	5.264.676	5.108.685	102.568	3
740	5.263.865	5.080.827	102.528	33
741	5.261.871	5.081.075	102.456	S
742	5.261.717	5.081.094	102.333	C
743	5.258.568	5.081.289	102.427	1
744	5.255.766	5.081.547	102.316	S
745	5.252.259	5.080.836	102.441	3
746	5.264.694	5.020.009	102.015	33
747	5.267.225	5.022.960	102.031	33
748	5.250.189	5.032.968	101.903	33
749	5.252.247	5.035.158	102.017	33
750	5.252.398	5.050.313	102.266	33
751	5.264.346	5.054.173	102.357	33
752	5.265.198	5.054.218	102.367	33
753	5.264.784	5.046.721	102.306	33
754	5.260.901	5.046.564	102.192	S
755	5.260.757	5.046.561	102.067	C
756	5.257.499	5.046.002	102.145	1
757	5.254.779	5.046.175	102.037	C
758	5.254.617	5.046.174	102.154	S
759	5.252.358	5.046.089	102.202	3
760	5.254.466	5.035.088	102.018	S
761	5.253.520	5.032.197	101.896	S
762	5.250.907	5.030.924	101.831	S
763	5.261.030	5.022.021	101.882	S
764	5.261.688	5.024.540	101.872	S
765	5.264.878	5.026.287	101.885	S
766	5.289.856	5.025.194	102.192	3
767	5.289.396	5.028.416	102.112	S
768	5.289.401	5.028.571	102.023	C
769	5.289.099	5.031.577	102.141	1
770	5.288.835	5.034.498	102.051	C
771	5.288.789	5.034.644	102.136	S
772	5.288.481	5.037.934	102.237	3
773	5.276.246	5.036.760	102.159	3
774	5.276.507	5.033.865	102.083	S
775	5.276.472	5.033.493	102.058	C
776	5.276.482	5.033.353	101.944	C
777	5.276.579	5.030.564	102.017	1
778	5.276.090	5.027.186	101.901	C



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779	5.276.001	5.027.143	101.991	S
780	5.276.507	5.023.959	102.086	3
781	5.265.643	5.003.501	102.027	3
782	5.262.331	5.002.870	101.919	S
783	5.262.188	5.002.862	101.777	C
784	5.259.212	5.002.813	101.869	1
785	5.256.096	5.002.887	101.930	S
786	5.253.153	5.002.894	101.947	S
787	5.252.827	5.009.838	101.954	S
788	5.255.259	5.009.915	101.933	6
789	5.255.618	5.009.973	101.910	S
790	5.255.797	5.009.965	101.768	C
791	5.258.778	5.010.622	101.860	1
792	5.261.689	5.011.053	101.780	C
793	5.261.823	5.011.033	101.902	S
794	5.265.146	5.011.710	102.021	3
795	5.244.095	5.032.452	101.859	33
796	5.244.444	5.030.502	101.798	S
797	5.244.490	5.030.341	101.697	C
798	5.244.661	5.027.262	101.733	1
799	5.244.967	5.024.368	101.655	C
800	5.244.997	5.024.223	101.738	S
801	5.246.318	5.019.645	101.813	R
802	5.221.413	5.019.844	101.614	33
803	5.221.277	5.021.989	101.564	S
804	5.221.189	5.022.128	101.456	C
805	5.220.878	5.025.017	101.573	1
806	5.220.398	5.028.082	101.506	C
807	5.220.388	5.028.221	101.605	S
808	5.220.057	5.030.649	101.667	3
809	5.187.705	5.028.376	101.443	3
810	5.188.031	5.025.168	101.350	S
811	5.188.017	5.025.028	101.252	C
812	5.188.343	5.022.300	101.326	1
813	5.188.563	5.019.074	101.177	C
814	5.188.569	5.018.932	101.279	S
815	5.188.523	5.016.133	101.376	R
816	5.119.033	5.058.033	101.200	3
817	5.121.258	5.058.058	101.120	S
818	5.121.386	5.058.094	100.965	C
819	5.124.379	5.058.466	101.071	1
820	5.127.377	5.058.618	101.016	C
821	5.127.556	5.058.645	101.158	S
822	5.130.084	5.058.814	101.212	3
823	5.121.169	5.054.049	101.122	5
824	5.120.641	5.040.230	101.102	3

825	5.122.712	5.040.437	101.033	S
826	5.122.896	5.040.450	100.886	C
827	5.125.838	5.041.411	100.972	1
828	5.128.816	5.041.613	100.925	C
829	5.128.966	5.041.626	101.061	S
830	5.131.583	5.041.240	101.100	3
831	5.133.054	5.025.053	101.039	33
832	5.121.869	5.025.799	100.994	3
833	5.123.912	5.026.020	100.920	S
834	5.124.100	5.026.003	100.770	C
835	5.127.085	5.026.055	100.895	1
836	5.130.061	5.026.252	100.840	C
837	5.130.238	5.026.274	100.978	S
838	5.132.913	5.026.578	101.057	3
839	5.160.655	5.014.129	101.155	3
840	5.160.436	5.016.623	101.091	S
841	5.160.414	5.016.797	101.000	C
842	5.160.006	5.020.037	101.130	1
843	5.159.715	5.022.729	101.078	C
844	5.159.677	5.022.872	101.162	S
845	5.159.411	5.026.104	101.268	3
846	5.135.280	5.000.488	100.835	3
847	5.132.687	5.000.279	100.742	S
848	5.132.485	5.000.266	100.599	C
849	5.127.966	5.000.035	100.700	1
850	5.137.972	4.972.422	100.685	3
851	5.135.373	4.972.300	100.610	S
852	5.135.194	4.972.272	100.450	C
853	5.130.730	4.971.898	100.534	1
854	5.141.298	4.938.913	100.499	R
855	5.138.600	4.938.985	100.436	S
856	5.138.486	4.938.948	100.292	C
857	5.117.015	5.014.019	100.712	1
858	5.116.415	5.018.482	100.611	C
859	5.116.384	5.018.620	100.758	S
860	5.116.130	5.021.471	100.851	3
861	5.082.583	5.018.556	100.593	33
862	5.082.920	5.015.297	100.484	S
863	5.083.495	5.010.674	100.448	1
864	5.046.375	5.006.917	100.156	1
865	5.060.709	5.016.374	100.428	3
866	5.061.009	5.013.088	100.328	S
867	5.061.016	5.012.914	100.150	C
868	5.061.450	5.008.459	100.291	1
869	5.018.664	5.012.364	100.132	3
870	5.018.903	5.009.676	100.049	S

871	5.018.877	5.009.535	99.903	C
872	5.019.588	5.005.089	100.000	1
873	5.004.972	5.038.275	100.225	3
874	5.003.115	5.038.087	100.120	S
875	5.002.923	5.038.082	100.006	C
876	5.000.122	5.037.757	100.088	1
877	4.997.002	5.037.011	99.944	C
878	4.996.866	5.037.047	100.076	S
879	4.994.285	5.036.740	100.144	3
880	4.995.209	5.025.853	100.067	3
881	4.997.843	5.026.172	100.005	S
882	4.997.910	5.026.151	99.878	C
883	5.001.006	5.026.413	100.000	1
884	5.003.920	5.026.749	99.967	C
885	5.004.097	5.026.748	100.081	S
886	5.005.893	5.027.095	100.159	3
887	5.006.916	5.013.697	100.090	3
888	5.005.291	5.013.551	100.011	S
889	5.005.086	5.013.548	99.896	C
890	4.999.140	5.013.069	99.792	C
891	4.999.057	5.013.080	99.888	S
892	4.996.283	5.012.545	99.900	33
893	4.994.307	5.010.215	99.884	33
894	4.964.332	5.007.490	99.643	3
895	4.964.692	5.005.070	99.577	S
896	4.964.688	5.004.895	99.414	C
897	4.965.033	5.002.015	99.463	1
898	4.965.357	4.999.004	99.368	C
899	4.965.334	4.998.871	99.499	S
900	4.965.594	4.996.504	99.595	3
901	4.978.148	4.997.772	99.709	3
902	4.978.276	5.000.076	99.596	S
903	4.978.246	5.000.145	99.457	C
904	4.977.592	5.003.124	99.592	1
905	4.979.400	5.006.343	99.549	C
906	4.979.375	5.006.461	99.704	S
907	4.977.666	5.008.747	99.749	3
908	4.991.550	5.009.987	99.872	3
909	4.991.704	5.007.626	99.812	S
910	4.991.716	5.007.464	99.667	C
911	4.992.385	5.004.554	99.716	1
912	4.992.676	5.001.562	99.601	C
913	4.992.625	5.001.366	99.797	S
914	4.998.999	4.982.461	100.002	3
915	5.001.793	4.982.665	99.941	S
916	5.001.934	4.982.681	99.788	C



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917	5.006.382	4.983.151	99.888	1
918	5.008.106	4.962.415	99.793	1
919	5.003.630	4.961.856	99.681	C
920	5.003.446	4.962.079	99.713	S
921	5.003.468	4.930.047	99.691	R
922	5.006.213	4.930.127	99.627	S
923	5.006.397	4.930.072	99.499	C
924	5.010.891	4.930.596	99.632	1
925	5.022.538	4.887.081	99.274	A2
926	5.014.090	4.891.181	99.364	1
927	5.009.698	4.890.608	99.217	C
928	5.009.522	4.890.529	99.365	S
929	5.006.663	4.890.359	99.407	3
930	5.004.309	4.885.097	99.335	33
931	4.978.801	4.882.987	99.069	3
932	4.979.423	4.879.537	98.986	S
933	4.979.369	4.879.362	98.840	C
934	4.979.393	4.876.669	98.942	1
935	4.980.079	4.873.434	98.854	C
936	4.980.052	4.873.240	99.009	S
937	4.980.360	4.870.997	99.105	3
938	4.991.970	4.871.887	99.194	3
939	4.991.884	4.874.263	99.116	S
940	4.991.944	4.874.484	98.968	C
941	4.991.483	4.877.324	99.051	1
942	4.990.832	4.880.371	98.954	C
943	4.990.850	4.880.541	99.104	S
944	4.990.773	4.883.982	99.206	33
945	5.002.668	4.884.932	99.291	3
946	5.002.747	4.881.596	99.196	S
947	5.002.793	4.881.404	99.052	C
948	5.003.071	4.878.455	99.148	1
949	5.003.400	4.875.473	99.061	C
950	5.003.430	4.875.336	99.213	S
951	5.003.604	4.872.968	99.311	3
952	5.012.231	4.881.673	99.171	LLC
953	5.010.427	4.883.106	99.147	LLC
954	5.010.568	4.881.546	99.157	LLC
955	5.022.461	4.838.325	99.377	3
956	5.020.816	4.838.365	99.294	R
957	5.020.219	4.838.466	99.133	S
958	5.020.077	4.838.440	99.039	C
959	5.018.064	4.834.387	99.084	1
960	5.014.155	4.837.323	99.014	C
961	5.014.035	4.837.303	99.124	S
962	5.011.478	4.837.383	99.167	R



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963	5.010.475	4.851.786	99.349	3
964	5.012.749	4.852.080	99.193	S
965	5.012.893	4.852.105	99.103	C
966	5.015.900	4.852.636	99.176	1
967	5.018.617	4.855.888	99.099	C
968	5.018.665	4.855.884	99.201	S
969	5.019.707	4.854.837	99.287	R
970	5.021.133	4.854.973	99.345	3
971	5.020.327	4.865.124	99.349	3
972	5.017.967	4.865.030	99.245	S
973	5.017.812	4.865.048	99.145	C
974	5.015.052	4.865.155	99.226	1
975	5.011.851	4.864.201	99.149	C
976	5.011.728	4.864.199	99.252	S
977	5.009.570	4.864.010	99.362	3
978	5.019.006	4.858.037	99.254	7
979	5.019.790	4.871.976	99.364	33
980	5.023.905	4.874.809	99.377	3
981	5.023.815	4.877.067	99.308	S
982	5.023.120	4.877.217	99.164	C
983	5.022.669	4.881.714	99.286	1
984	5.053.006	4.877.393	99.626	3
985	5.052.770	4.879.677	99.562	S
986	5.052.761	4.879.854	99.430	C
987	5.051.988	4.884.307	99.521	1
988	5.088.839	4.880.560	99.948	3
989	5.088.777	4.882.838	99.891	S
990	5.088.784	4.883.080	99.758	C
991	5.088.253	4.887.496	99.814	1
992	5.141.370	4.928.872	100.314	3
993	5.133.051	4.939.754	100.247	1
994	5.136.225	4.905.812	100.077	1
995	5.140.689	4.906.366	99.993	C
996	5.140.858	4.906.348	100.143	S
997	5.143.751	4.906.505	100.205	3
998	5.125.738	4.883.798	100.169	3
999	5.125.464	4.885.976	100.069	S
1000	5.125.481	4.886.128	99.919	C
1001	5.125.180	4.890.603	100.021	1
1002	5.138.304	4.846.730	100.099	3
1003	5.140.254	4.846.977	99.982	S
1004	5.140.437	4.846.944	99.865	C
1005	5.143.441	4.847.039	99.981	1
1006	5.145.196	4.860.273	100.051	S
1007	5.145.125	4.860.316	99.920	C
1008	5.142.138	4.860.192	100.023	1

1009	5.139.185	4.860.204	99.924	C
1010	5.139.013	4.859.965	100.028	S
1011	5.137.090	4.859.962	100.109	3
1012	5.135.812	4.874.698	100.169	3
1013	5.137.576	4.874.712	100.091	S
1014	5.137.711	4.874.694	99.983	C
1015	5.140.696	4.874.990	100.070	1
1016	5.143.645	4.875.578	99.992	C
1017	5.143.801	4.875.559	100.105	S
1018	5.149.024	4.876.031	100.284	33
1019	5.176.093	4.878.597	100.475	33
1020	5.175.892	4.881.150	100.456	33
1021	5.175.114	4.890.482	100.316	S
1022	5.175.052	4.890.636	100.159	C
1023	5.174.622	4.893.592	100.238	1
1024	5.172.669	4.896.371	100.124	C
1025	5.172.581	4.896.497	100.272	S
1026	5.172.407	4.898.656	100.362	3
1027	5.158.508	4.897.391	100.283	3
1028	5.158.638	4.895.275	100.213	S
1029	5.158.628	4.895.092	100.047	C
1030	5.158.989	4.892.142	100.151	1
1031	5.159.174	4.889.153	100.074	C
1032	5.159.059	4.886.576	100.276	S
1033	5.158.643	4.888.323	100.224	R
1034	5.144.688	4.896.285	100.177	33
1035	4.996.807	5.001.934	99.684	C
1036	4.998.902	5.001.479	99.766	C
1037	5.000.563	4.998.329	99.831	C
1038	4.995.671	5.008.013	99.672	C
1039	4.998.526	5.009.664	99.755	C
1040	5.005.218	5.012.301	99.845	C
1041	5.005.917	5.009.891	99.783	C
1042	5.009.109	5.008.681	99.729	C
1043	5.010.004	4.885.567	99.262	S
1044	5.006.828	4.881.789	99.275	S
1045	5.008.969	4.882.778	99.248	S
1046	5.010.013	4.885.417	99.113	C
1047	5.008.854	4.882.670	99.011	C
1048	5.006.933	4.881.800	99.011	C
1049	5.007.110	4.875.763	99.092	C
1050	5.009.838	4.874.928	99.085	C
1051	5.011.093	4.872.100	99.140	C
1052	5.017.120	4.873.068	99.156	C
1053	5.018.191	4.875.857	99.110	C
1054	5.020.378	4.876.894	99.125	C

1055	5.132.721	4.886.785	100.002	C
1056	5.135.535	4.886.095	100.003	C
1057	5.136.777	4.883.439	99.998	C
1058	5.142.794	4.883.602	100.001	C
1059	5.144.684	4.887.452	100.003	C
1060	5.147.488	4.888.006	100.028	C
1061	5.141.581	4.897.588	99.978	C
1062	5.143.600	4.894.217	99.975	C
1063	5.145.982	4.893.939	100.021	C
1064	5.131.460	5.010.765	100.672	C
1065	5.132.645	5.013.208	100.689	C
1066	5.134.115	5.014.139	100.746	C
1067	5.130.308	5.023.732	100.789	C
1068	5.132.364	5.020.761	100.800	C
1069	5.134.788	5.020.250	100.833	C
1070	5.120.687	5.018.931	100.595	C
1071	5.123.214	5.020.235	100.715	C
1072	5.124.234	5.023.246	100.731	C
1073	5.254.911	5.021.567	101.765	C
1074	5.253.430	5.023.932	101.770	C
1075	5.251.129	5.024.848	101.677	C
1076	5.261.037	5.021.903	101.143	C
1077	5.261.785	5.024.678	101.722	C
1078	5.264.783	5.026.284	101.745	C
1079	5.260.523	5.036.172	101.909	C
1080	5.261.878	5.032.957	101.850	C
1081	5.264.339	5.032.087	101.193	C
1082	5.264.370	5.032.087	101.788	C
1083	5.251.070	5.030.869	101.670	C
1084	5.253.623	5.032.248	101.692	C
1085	5.254.458	5.034.989	101.860	C
1086	5.257.571	5.148.378	102.219	C
1087	5.256.330	5.150.907	102.203	C
1088	5.253.280	5.151.930	102.144	C
1089	5.253.279	5.151.930	102.072	C
1090	5.257.021	5.160.145	102.236	C
1091	5.258.232	5.162.944	102.170	C
1092	5.264.357	5.163.856	102.173	C
1093	5.266.056	5.161.003	102.182	C
1094	5.268.706	5.160.344	102.189	C
1095	5.263.652	5.148.938	102.211	C
1096	5.265.682	5.152.584	102.220	C
1097	5.268.187	5.153.348	102.213	C
1098	5.024.217	5.000.973	99.921	C
1099	5.022.004	5.000.754	99.898	C
1100	5.013.288	4.995.829	99.819	C

1101	5.010.598	4.986.312	99.754	C
1102	5.012.030	4.969.299	99.670	C
1103	5.013.210	4.955.224	99.623	C
1104	5.012.576	4.962.788	99.653	C
1105	5.012.712	4.962.783	99.863	S
1106	5.014.821	4.936.016	99.541	C
1107	5.016.339	4.917.910	99.476	C
1108	5.017.926	4.898.946	99.375	C
1109	5.022.083	4.890.340	99.305	C
1110	5.030.765	4.886.993	99.213	C
1111	5.051.738	4.888.816	99.558	S
1112	5.051.748	4.888.817	99.412	C
1113	5.118.542	4.894.609	99.984	C
1114	5.131.352	4.908.673	100.142	C
1115	5.128.504	4.899.632	100.045	C
1116	5.123.494	4.997.496	100.592	C
1117	5.120.797	5.003.971	100.542	C
1118	5.109.166	5.008.849	100.435	C
1119	5.109.282	5.008.861	100.584	S
1120	5.080.223	5.004.776	100.327	C
1121	5.174.752	5.011.502	101.364	33
1122	5.221.752	5.016.229	101.711	33
1123	5.244.056	5.032.930	101.862	33
1124	5.211.840	5.030.753	101.580	33
1125	5.187.666	5.028.824	101.452	33
1126	5.146.152	5.024.713	101.134	33
1127	5.250.541	5.050.259	102.283	33
1128	5.251.020	5.074.150	102.466	33
1129	5.253.149	5.074.091	102.451	33
1130	5.252.084	5.074.521	102.462	33
1131	5.252.519	5.090.239	102.630	33
1132	5.265.124	5.080.825	102.533	33

1133	5000.138	4961.725	99.850 Aux
1134	5026.576	5013.683	100.190 Aux
1135	5252.226	5033.140	101.951 Aux
1136	5250.418	5046.543	102.227 Aux
1138	5264.174	5035.687	102.110 Aux
1140	5221.817	5015.580	101.726 Aux
1141	4999.251	5012.407	99.787 Aux
1142	5253.793	5158.944	102.125 Aux
1143	5118.380	4894.607	100.107 Aux
1144	5099.232	5007.973	100.468 Aux
1145	5098.544	5007.678	100.466 Aux
1146	5098.010	5007.023	100.462 Aux
1147	5097.018	5006.513	100.453 Aux



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1148	5096.017	5006.295	100.450 Aux
1149	5062.725	5003.165	100.195 Aux
1150	5047.767	5001.763	100.081 Aux
1151	5028.016	4999.969	99.968 Aux
1152	5124.471	5014.808	100.781 Aux
1153	5013.469	4879.332	99.281 Aux
1154	5007.112	5003.988	99.910 Aux
1155	4999.927	5004.838	99.810 Aux
1156	5260.756	5028.751	101.822 Aux
1157	5254.709	5028.158	101.813 Aux
1158	5263.988	5156.399	102.256 Aux
1159	5257.929	5155.780	102.242 Aux

Tabla 5. Base de datos topográficos

La planta topográfica, se presenta en la lámina 1 de 12 del Anexo I, Pavimentación y Aguas Lluvias. La lámina presenta la representación de cotas, niveles y puntos referenciales indicados en las tablas anteriores.



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