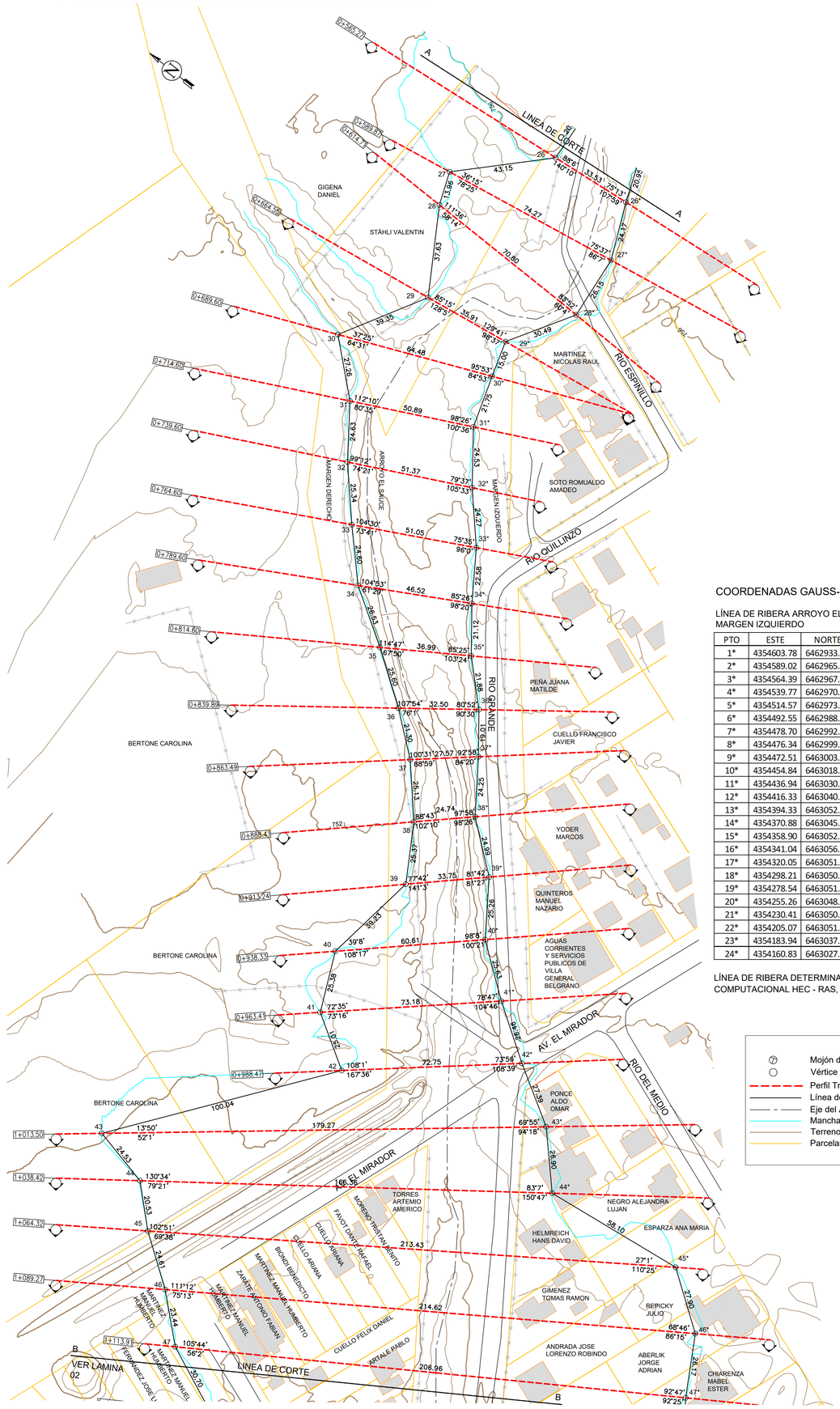
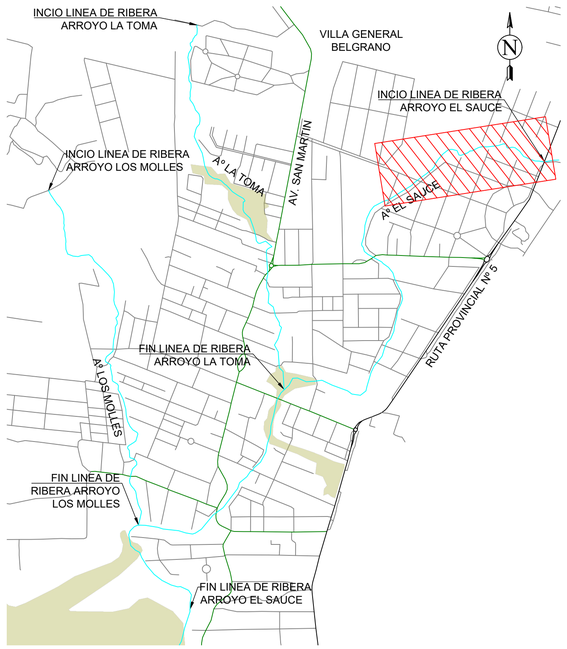
PLANIMETRÍA GENERAL ARROYO EL SAUCE



CROQUIS DE UBICACIÓN

ESC. 1:20000



COORDENADAS GAUSS-KRÜGER POSGAR 94 - Faja 4

LÍNEA DE RIBERA ARROYO EL SAUCE
MARGEN IZQUIERDO

PTO	ESTE	NORTE
1*	4354603.78	6462933.13
2*	4354589.02	6462965.50
3*	4354564.39	6462967.32
4*	4354539.77	6462970.96
5*	4354514.57	6462973.28
6*	4354492.55	6462988.06
7*	4354478.70	6462992.78
8*	4354476.34	6462999.87
9*	4354472.51	6463003.45
10*	4354454.84	6463018.90
11*	4354436.94	6463030.67
12*	4354416.33	6463040.51
13*	4354394.33	6463052.87
14*	4354370.88	6463045.73
15*	4354358.90	6463052.84
16*	4354341.04	6463056.72
17*	4354320.05	6463051.64
18*	4354298.21	6463050.52
19*	4354278.54	6463051.06
20*	4354255.26	6463048.09
21*	4354230.41	6463050.89
22*	4354205.07	6463051.48
23*	4354183.94	6463037.31
24*	4354160.83	6463027.55
25*	4354136.00	6463023.83
26*	4354116.38	6463016.48
27*	4354094.25	6463006.76
28*	4354068.23	6463004.27
29*	4354042.17	6463020.10
30*	4354027.83	6463015.71
31*	4354007.11	6463009.08
32*	4353987.47	6462994.38
33*	4353969.43	6462978.15
34*	4353950.62	6462965.67
35*	4353933.82	6462952.86
36*	4353918.66	6462937.09
37*	4353903.57	6462925.52
38*	4353883.66	6462911.68
39*	4353867.99	6462892.20
40*	4353847.13	6462877.95
41*	4353831.64	6462857.54
42*	4353816.99	6462835.50
43*	4353802.86	6462812.03
44*	4353783.24	6462793.62
45*	4353790.41	6462735.96
46*	4353774.21	6462713.25
47*	4353751.45	6462700.34

LÍNEA DE RIBERA ARROYO EL SAUCE
MARGEN DERECHO

PTO	ESTE	NORTE
1	4354632.02	6463013.29
2	4354594.26	6462977.95
3	4354582.37	6463008.21
4	4354559.12	6463019.99
5	4354535.09	6463032.21
6	4354510.75	6463030.60
7	4354496.96	6463037.31
8	4354492.64	6463040.22
9	4354490.86	6463049.53
10	4354472.44	6463069.68
11	4354451.84	6463077.00
12	4354432.41	6463095.99
13	4354414.73	6463123.44
14	4354394.97	6463135.17
15	4354377.48	6463133.44
16	4354347.25	6463097.89
17	4354322.95	6463096.50
18	4354297.99	6463095.58
19	4354274.62	6463089.00
20	4354249.66	6463086.05
21	4354225.69	6463082.37
22	4354201.57	6463076.54
23	4354179.05	6463073.03
24	4354156.54	6463065.85
25	4354133.41	6463051.22
26	4354113.02	6463049.84
27	4354082.20	6463080.04
28	4354069.16	6463075.06
29	4354036.93	6463055.63
30	4354002.75	6463075.11
31	4353984.64	6463054.74
32	4353964.62	6463040.39
33	4353945.80	6463023.41
34	4353928.07	6463006.36
35	4353913.82	6462983.98
36	4353899.10	6462963.04
37	4353885.69	6462946.49
38	4353866.86	6462929.84
39	4353845.02	6462916.93
40	4353806.21	6462922.66
41	4353783.05	6462912.26
42	4353769.93	6462890.98
43	4353690.33	6462951.59
44	4353684.76	6462927.70
45	4353670.74	6462912.69
46	4353656.44	6462892.66
47	4353640.77	6462875.23

LÍNEA DE RIBERA DETERMINADA MEDIANTE MODELACIÓN MATEMÁTICA CON EMPLEO DE MODELO COMPUTACIONAL HEC - RAS, CON UN CAUDAL DE 25 AÑOS DE RECURRENCIA DE:

PROGRESIVA	PROGRESIVA	CAUDAL
0+000.00	0+664.55	48 m^3/s
0+689.60	3+321.14	123 m^3/s
3+345.96	4+845.68	157 m^3/s
4+873.31	5+849.04	200 m^3/s

REFERENCIAS

- Mojón de Hierro
- Vértice sin Materializar
- Perfil Transversal
- Línea de Ribera
- Eje del Arroyo
- Mancha Inundación
- Terreno Natural
- Parcelario SIG
- Muro
- Vado
- Azud
- Edificación
- Alcantarilla
- Puente
- Gaviones
- Calle
- Alambrado

Esc:1/1,000

0 10 20 40 80

APRHI Administración Provincial de Recursos Hídricos · Ministerio de SERVICIOS PUBLICOS · GOBIERNO DE LA PROVINCIA DE CÓRDOBA · ENTRE TODOS

OBRA: SERVICIOS PROFESIONALES PARA LA DEFINICIÓN DE LA LÍNEA DE RIBERA EN LA ZONA URBANA DE LA LOCALIDAD DE VILLA GENERAL BELGRANO (DEPARTAMENTO CALAMUCHITA)

Plano N° 0001

PLANO: ARROYO EL SAUCE PLANIMETRÍA

Localidad: Villa General Belgrano
Dpto.: Calamuchita

Escala: 1:1000	Fecha: Agosto 2020	Ministro: Ing. Fabian Lopez
Topografía: Consular Consultores Argentinos Asociados S.A.		Secretario de Recursos Hídricos: Ing. Edgar Castelló
Proyecto: Ing. Ramiro M. García		Presidente APRHI: Ing. Juan Pablo Brarda
Dibujo: Ing. Lucia Otero		VOCALES APRHI: Wierzbicky/Plencovich/Herrero/Suaya

PLANIMETRÍA GENERAL ARROYO EL SAUCE

COORDENADAS GAUSS-KRÜGER POSGAR 94 - Faja 4

LÍNEA DE RIBERA ARROYO EL SAUCE
MARGEN IZQUIERDO

PTO	ESTE	NORTE
48*	4353730.05	6462685.50
49*	4353708.47	6462672.95
50*	4353687.25	6462662.21
51*	4353683.64	6462625.97
52*	4353679.82	6462610.15
53*	4353676.45	6462608.05
54*	4353672.39	6462607.10
55*	4353665.89	6462586.41
56*	4353662.97	6462574.14
57*	4353651.69	6462556.39
58*	4353644.73	6462549.48
59*	4353634.89	6462540.25
60*	4353616.66	6462535.38
61*	4353615.93	6462520.72
62*	4353619.74	6462509.02
63*	4353615.75	6462506.78
64*	4353613.75	6462503.04
65*	4353615.30	6462500.87
66*	4353614.54	6462497.02
67*	4353613.10	6462495.28
68*	4353610.10	6462491.55

PTO	ESTE	NORTE
69*	4353607.49	6462487.15
70*	4353605.74	6462478.90
71*	4353603.55	6462468.49
72*	4353600.07	6462451.97
73*	4353595.02	6462426.06
74*	4353591.95	6462399.95
75*	4353590.50	6462371.59
76*	4353598.68	6462350.05
77*	4353600.36	6462319.42
78*	4353603.93	6462288.77
79*	4353639.57	6462284.78
80*	4353632.42	6462246.82
81*	4353640.19	6462221.91
82*	4353651.05	6462199.34
83*	4353665.91	6462177.15
84*	4353674.54	6462153.29
85*	4353683.76	6462129.78
86*	4353691.24	6462105.43
87*	4353694.18	6462080.47
88*	4353689.38	6462055.89
89*	4353685.99	6462032.49

LÍNEA DE RIBERA ARROYO EL SAUCE
MARGEN DERECHO

PTO	ESTE	NORTE
48	4353628.43	6462847.12
49	4353604.95	6462838.91
50	4353584.90	6462821.45
51	4353569.39	6462796.96
52	4353553.53	6462791.42
53	4353550.37	6462786.54
54	4353552.43	6462774.00
55	4353538.25	6462748.76
56	4353521.67	6462726.91
57	4353508.25	6462704.02
58	4353495.13	6462681.70
59	4353478.09	6462662.68
60	4353463.06	6462642.37
61	4353455.25	6462617.67
62	4353445.34	6462594.22
63	4353438.85	6462569.34
64	4353427.49	6462545.22
65	4353410.94	6462519.89
66	4353402.61	6462491.61
67	4353408.58	6462465.11
68	4353405.76	6462439.62

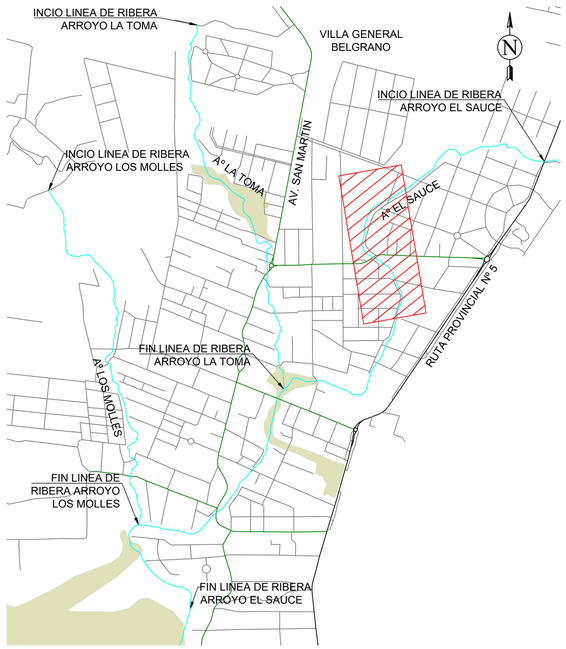
PTO	ESTE	NORTE
69	4353410.78	6462415.83
70	4353418.42	6462390.34
71	4353431.40	6462369.68
72	4353450.32	6462352.46
73	4353461.85	6462330.35
74	4353477.49	6462310.67
75	4353489.67	6462287.97
76	4353507.43	6462268.23
77	4353538.61	6462262.70
78	4353530.17	6462223.82
79	4353543.29	6462207.56
80	4353576.77	6462207.28
81	4353613.70	6462206.25
82	4353619.82	6462184.69
83	4353627.70	6462163.54
84	4353631.82	6462142.32
85	4353630.70	6462120.11
86	4353630.32	6462098.79
87	4353634.65	6462077.63
88	4353630.23	6462055.55
89	4353619.79	6462034.26

LÍNEA DE RIBERA DETERMINADA MEDIANTE MODELACIÓN MATEMÁTICA CON EMPLEO DE MODELO COMPUTACIONAL HEC - RAS, CON UN CAUDAL DE 25 AÑOS DE RECURRENCIA DE:

PROGRESIVA	PROGRESIVA	CAUDAL
0+000.00	0+664.55	48 m^3/s
0+689.60	3+321.14	123 m^3/s
3+345.96	4+845.68	157 m^3/s
4+873.31	5+849.04	200 m^3/s

CROQUIS DE UBICACIÓN

ESC. 1:20000



DETALLE 1

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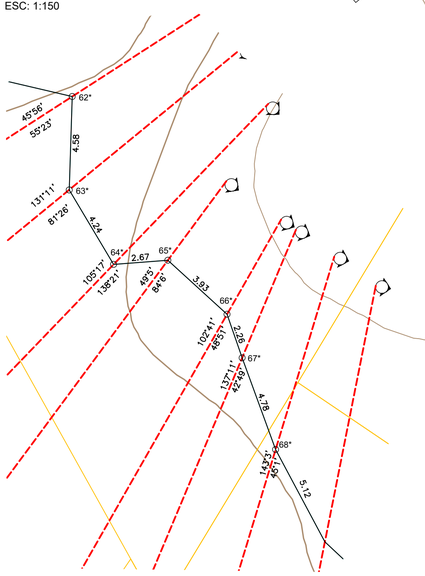


REFERENCIAS

- Mojón de Hierro
- Vértice sin Materializar
- Perfil Transversal
- Línea de Ribera
- Eje del Arroyo
- Mancha Inundación
- Terreno Natural
- Parcelario SIG
- Muro
- Vado
- Azud
- Edificación
- Alcantarilla
- Puente
- Gaviones
- Calle
- Alambrado

Esc:1/1,000

0 10 20 40 80

APRHI Administración Provincial de Recursos Hídricos | Ministerio de SERVICIOS PUBLICOS | GOBIERNO DE LA PROVINCIA DE CÓRDOBA | ENTRE TODOS

OBRA: SERVICIOS PROFESIONALES PARA LA DEFINICIÓN DE LA LÍNEA DE RIBERA EN LA ZONA URBANA DE LA LOCALIDAD DE VILLA GENERAL BELGRANO (DEPARTAMENTO CALAMUCHITA)

Plano N° 0002

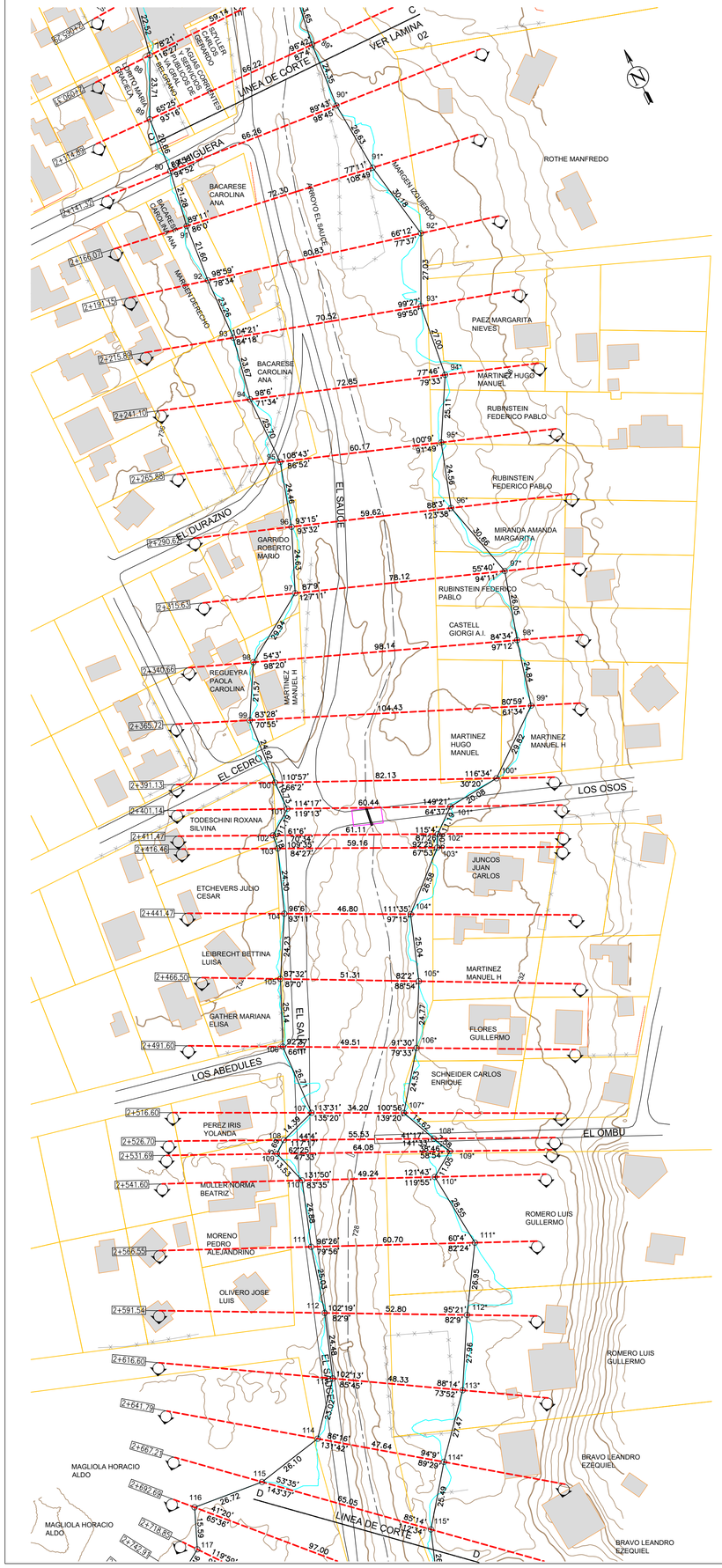
Localidad: Villa General Belgrano

Dpto.: Calamuchita

PLANO: ARROYO EL SAUCE
PLANIMETRÍA

Escala: 1:1000	Fecha: Agosto 2020	Ministro: Ing. Fabian Lopez
Topografía: Consular Consultores Argentinos Asociados S.A.		Secretario de Recursos Hídricos: Ing. Edgar Castelló
Proyecto: Ing. Ramiro M. García		Presidente APRHI: Ing. Juan Pablo Brarda
Dibujo: Ing. Lucia Otero		VOCALES APRHI: Wierzbicky/Plencovich/Herrero/Suaya

PLANIMETRÍA GENERAL ARROYO EL SAUCE



COORDENADAS GAUSS-KRÜGER POSGAR 94 - Faja 4

LÍNEA DE RIBERA ARROYO EL SAUCE
MARGEN IZQUIERDO

PTO	ESTE	NORTE
90*	4353684.09	6462008.21
91*	4353685.96	6461981.64
92*	4353691.21	6461951.93
93*	4353679.30	6461927.67
94*	4353676.07	6461900.86
95*	4353663.69	6461879.01
96*	4353656.28	6461855.59
97*	4353663.76	6461825.86
98*	4353656.57	6461800.83
99*	4353650.46	6461776.76
100*	4353627.05	6461758.27
101*	4353607.05	6461756.45
102*	4353598.38	6461749.38
103*	4353595.98	6461744.93
104*	4353576.21	6461727.16
105*	4353567.97	6461703.51
106*	4353556.23	6461681.70
107*	4353541.38	6461662.18
108*	4353547.10	6461648.72
109*	4353550.40	6461641.90
110*	4353541.19	6461635.80
111*	4353543.74	6461607.37
112*	4353529.30	6461584.62
113*	4353515.48	6461560.32
114*	4353497.53	6461539.53
115*	4353482.13	6461519.22
116*	4353473.42	6461494.47
117*	4353458.97	6461475.65
118*	4353444.67	6461457.03
119*	4353426.16	6461436.39
120*	4353400.21	6461432.95
121*	4353374.33	6461437.37
122*	4353349.93	6461442.21
123*	4353324.37	6461438.76
124*	4353297.41	6461439.98
125*	4353269.90	6461439.24
126*	4353242.73	6461438.52
127*	4353215.77	6461437.71
128*	4353188.73	6461438.30
129*	4353163.21	6461438.15
130*	4353139.84	6461438.12
131*	4353120.62	6461440.65
132*	4353116.88	6461440.83
133*	4353105.17	6461447.62
134*	4353088.88	6461452.53
135*	4353072.15	6461459.58

LÍNEA DE RIBERA ARROYO EL SAUCE
MARGEN DERECHO

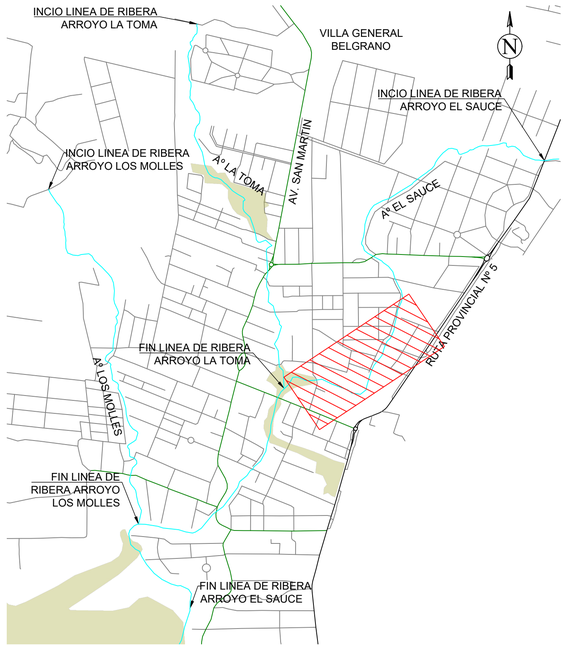
PTO	ESTE	NORTE
90	4353618.06	6462013.68
91	4353614.51	6461992.70
92	4353612.70	6461971.17
93	4353611.75	6461947.93
94	4353607.24	6461924.69
95	4353606.94	6461898.99
96	4353600.09	6461875.51
97	4353590.44	6461852.85
98	4353565.22	6461836.71
99	4353554.51	6461818.00
100	4353552.70	6461793.15
101	4353552.48	6461782.42
102	4353543.35	6461775.94
103	4353542.77	6461770.79
104	4353534.32	6461748.01
105	4353522.33	6461726.96
106	4353512.03	6461704.02
107	4353510.72	6461677.34
108	4353497.06	6461672.81
109	4353492.52	6461669.38
110	4353496.48	6461656.44
111	4353488.64	6461632.83
112	4353482.28	6461608.62
113	4353474.23	6461585.50
114	4353459.31	6461567.97
115	4353433.74	6461562.70
116	4353407.15	6461565.29
117	4353401.18	6461550.89
118	4353391.50	6461544.75
119	4353379.41	6461540.59
120	4353369.44	6461536.73
121	4353359.79	6461534.44
122	4353348.25	6461531.32
123	4353331.61	6461517.74
124	4353309.07	6461512.02
125	4353285.52	6461513.76
126	4353261.01	6461515.41
127	4353238.79	6461528.09
128	4353217.99	6461544.01
129	4353194.78	6461552.88
130	4353173.24	6461570.13
131	4353146.00	6461566.01
132	4353140.62	6461564.75
133	4353121.07	6461566.91
134	4353093.49	6461552.03
135	4353066.57	6461560.37

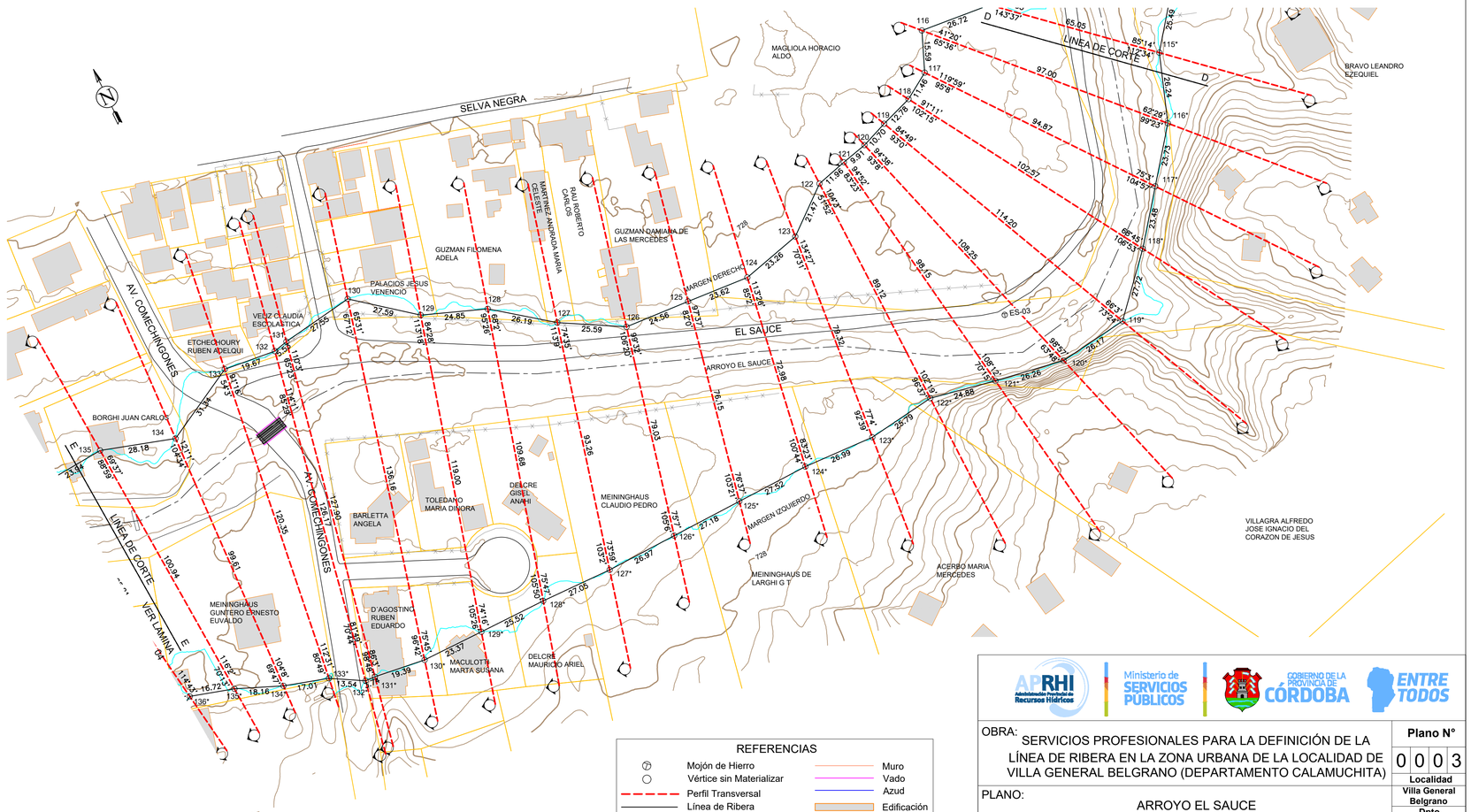
LÍNEA DE RIBERA DETERMINADA MEDIANTE MODELACIÓN MATEMÁTICA CON EMPLEO DE MODELO COMPUTACIONAL HEC - RAS, CON UN CAUDAL DE 25 AÑOS DE RECURRENCIA DE:

PROGRESIVA	PROGRESIVA	CAUDAL
0+000.00	0+664.55	48 m^3/s
0+689.60	3+321.14	123 m^3/s
3+345.96	4+845.68	157 m^3/s
4+873.31	5+849.04	200 m^3/s

CROQUIS DE UBICACIÓN

ESC. 1:20000





Esc:1/1,000

0 10 20 40 80

REFERENCIAS

- Mojón de Hierro
- Vértice sin Materializar
- Perfil Transversal
- Línea de Ribera
- Eje del Arroyo
- Mancha Inundación
- Terreno Natural
- Parcelario SIG
- Muro
- Vado
- Azud
- Edificación
- Alcantarilla
- Puente
- Gaviones
- Calle
- Alambrado

APRHI Administración Provincial de Recursos Hídricos | Ministerio de SERVICIOS PÚBLICOS | GOBIERNO DE LA PROVINCIA DE CÓRDOBA | ENTRE TODOS

OBRA: SERVICIOS PROFESIONALES PARA LA DEFINICIÓN DE LA LÍNEA DE RIBERA EN LA ZONA URBANA DE LA LOCALIDAD DE VILLA GENERAL BELGRANO (DEPARTAMENTO CALAMUCHITA)

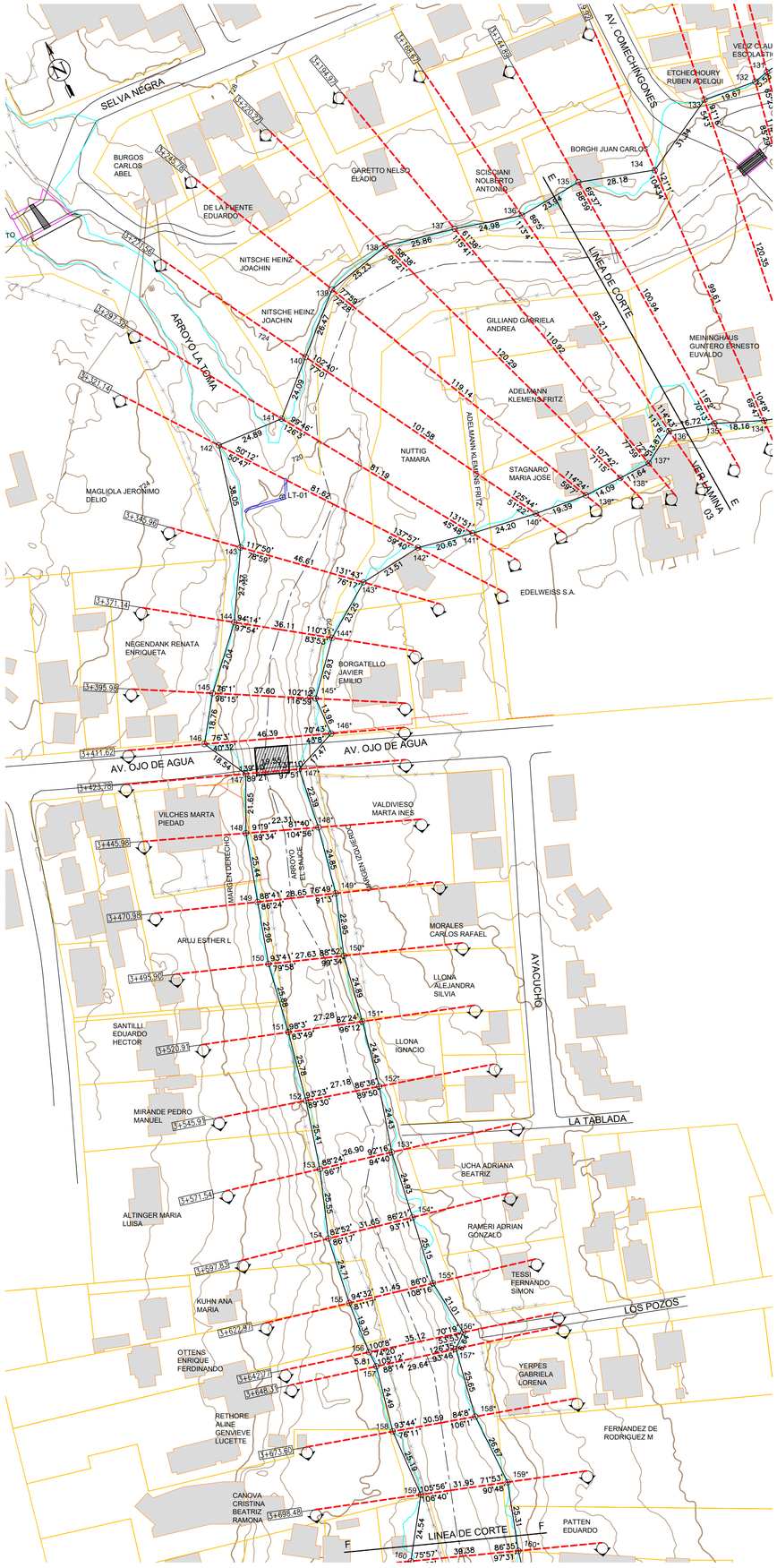
Plano N° 0003

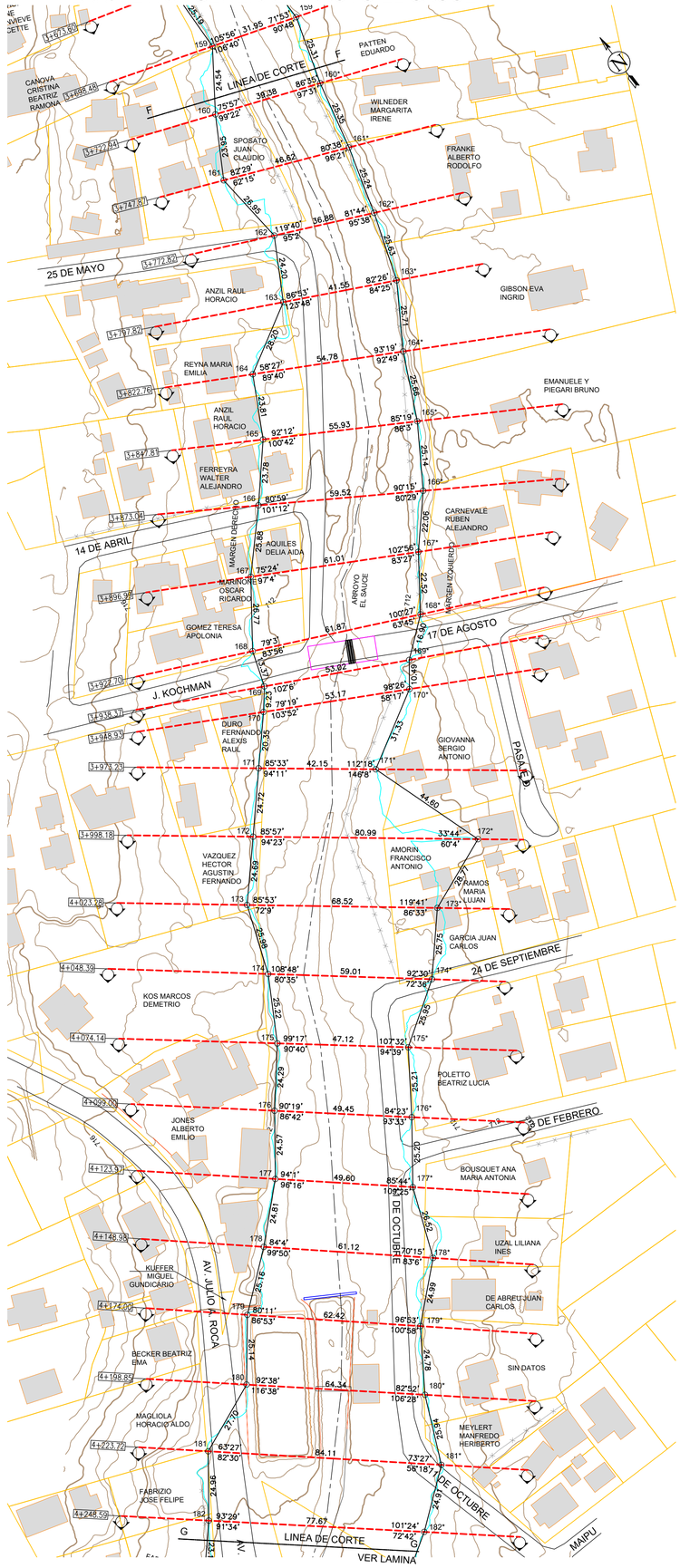
PLANO: ARROYO EL SAUCE PLANIMETRÍA

Localidad: Villa General Belgrano
Dpto.: Calamuchita

Escala: 1:1000	Fecha: Agosto 2020	Ministro: Ing. Fabian Lopez
Topografía: Consular Consultores Argentinos Asociados S.A.		Secretario de Recursos Hídricos: Ing. Edgar Castelló
Proyecto: Ing. Ramiro M. García		Presidente APRHI: Ing. Juan Pablo Brarda
Dibujo: Ing. Lucia Otero		VOCALES APRHI: Wierzbicky/Plencovich/Herrero/Suaya

PLANIMETRÍA GENERAL ARROYO EL SAUCE





COORDENADAS GAUSS-KRÜGER POSGAR 94 - Faja 4

LÍNEA DE RIBERA ARROYO EL SAUCE
MARGEN IZQUIERDO

PTO	ESTE	NORTE	PTO	ESTE	NORTE
136*	4353056.13	6461464.36	160*	4352826.39	6461122.56
137*	4353044.27	6461457.17	161*	4352820.59	6461097.88
138*	4353032.63	6461456.88	162*	4352813.54	6461073.65
139*	4353018.54	6461456.80	163*	4352805.26	6461049.40
140*	4352999.27	6461458.87	164*	4352791.64	6461027.59
141*	4352975.37	6461462.67	165*	4352780.45	6461004.51
142*	4352955.15	6461466.74	166*	4352766.95	6460983.30
143*	4352931.78	6461464.19	167*	4352752.26	6460966.84
144*	4352912.55	6461451.11	168*	4352739.22	6460948.48
145*	4352897.39	6461433.91	169*	4352726.05	6460937.88
146*	4352896.86	6461419.96	170*	4352719.77	6460929.48
147*	4352880.62	6461413.51	171*	4352692.62	6460913.85
148*	4352877.53	6461391.33	172*	4352706.67	6460871.53
149*	4352872.58	6461366.97	173*	4352680.02	6460860.68
150*	4352865.16	6461345.25	174*	4352662.91	6460841.43
151*	4352860.66	6461320.77	175*	4352641.26	6460827.12
152*	4352855.66	6461296.84	176*	4352627.03	6460806.30
153*	4352849.18	6461273.29	177*	4352612.08	6460786.03
154*	4352845.51	6461248.64	178*	4352602.46	6460761.31
155*	4352841.61	6461223.79	179*	4352583.91	6460744.56
156*	4352843.56	6461202.87	180*	4352570.26	6460723.88
157*	4352838.44	6461198.65	181*	4352559.68	6460700.19
158*	4352833.92	6461173.40	182*	4352540.13	6460684.75
159*	4352833.92	6461146.73			

LÍNEA DE RIBERA ARROYO EL SAUCE
MARGEN DERECHO

PTO	ESTE	NORTE	PTO	ESTE	NORTE
136	4353042.69	6461558.62	160	4352789.56	6461136.50
137	4353018.56	6461565.06	161	4352777.55	6461115.78
138	4352993.29	6461570.56	162	4352779.98	6461088.94
139	4352968.69	6461565.00	163	4352768.05	6461067.88
140	4352949.10	6461547.20	164	4352743.58	6461053.88
141	4352931.36	6461530.90	165	4352732.28	6461032.93
142	4352906.52	6461532.30	166	4352716.59	6461015.04
143	4352897.17	6461495.41	167	4352698.81	6460996.25
144	4352883.06	6461471.96	168	4352683.11	6460974.55
145	4352864.57	6461452.23	169	4352678.79	6460961.91
146	4352853.69	6461436.94	170	4352672.98	6460954.74
147	4352862.39	6461420.57	171	4352659.30	6460939.67
148	4352852.92	6461401.11	172	4352642.77	6460921.29
149	4352845.65	6461376.73	173	4352626.16	6460903.03
150	4352839.20	6461354.70	174	4352617.14	6460878.67
151	4352834.72	6461329.21	175	4352604.64	6460856.77
152	4352829.43	6461303.98	176	4352589.14	6460838.07
153	4352822.98	6461279.40	177	4352574.47	6460818.36
154	4352814.56	6461255.28	178	4352556.34	6460801.42
155	4352810.96	6461230.83	179	4352536.82	6460785.54
156	4352809.54	6461211.58	180	4352521.37	6460765.71
157	4352809.67	6461205.77	181	4352495.84	6460754.96
158	4352804.52	6461181.83	182	4352480.88	6460734.97
159	4352803.56	6461156.66			

LÍNEA DE RIBERA DETERMINADA MEDIANTE MODELACIÓN MATEMÁTICA CON EMPLEO DE MODELO COMPUTACIONAL HEC - RAS, CON UN CAUDAL DE 25 AÑOS DE RECURRENCIA DE:

PROGRESIVA	PROGRESIVA	CAUDAL
0+000.00	0+664.55	48 m³/s
0+689.60	3+321.14	123 m³/s
3+345.96	4+845.68	157 m³/s
4+873.31	5+849.04	200 m³/s

REFERENCIAS

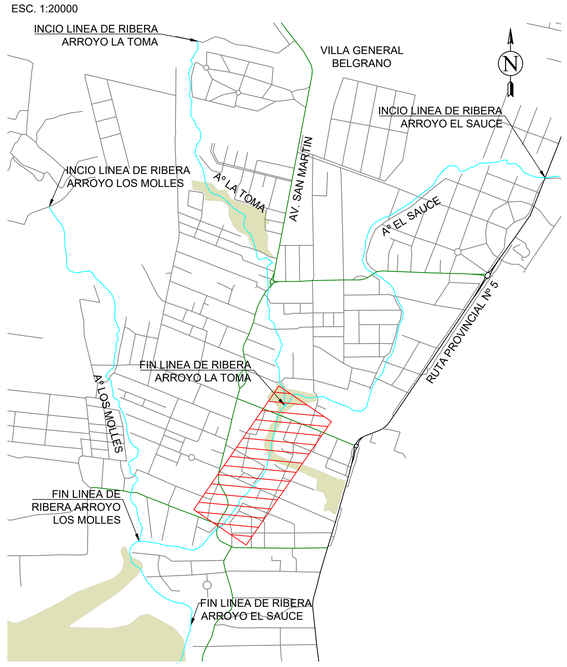
- Mojón de Hierro
- Vértice sin Materializar
- Perfil Transversal
- Línea de Ribera
- Eje del Arroyo
- Mancha Inundación
- Terreno Natural
- Parcelario SIG
- Muro
- Vado
- Azud
- Edificación
- Alcantarilla
- Puente
- Gaviones
- Calle
- Alambrado

Esc:1/1,000

0 10 20 40 80

CROQUIS DE UBICACIÓN

ESC. 1:20000



OBRA: SERVICIOS PROFESIONALES PARA LA DEFINICIÓN DE LA LÍNEA DE RIBERA EN LA ZONA URBANA DE LA LOCALIDAD DE VILLA GENERAL BELGRANO (DEPARTAMENTO CALAMUCHITA)

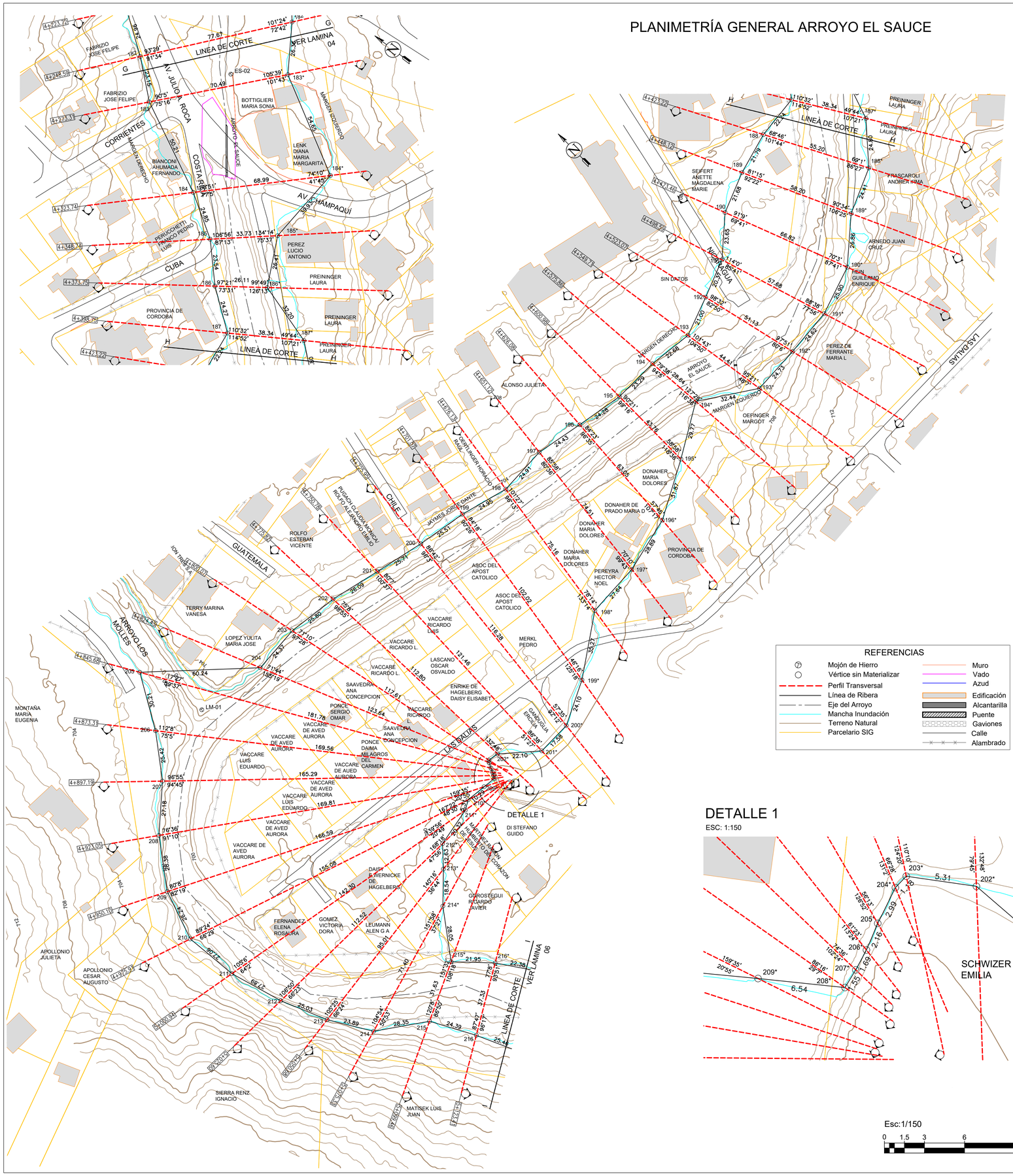
Plano N° 0004

PLANO: ARROYO EL SAUCE PLANIMETRÍA

Localidad: Villa General Belgrano
Dpto.: Calamuchita

Escala: 1:1000	Fecha: Agosto 2020	Ministro: Ing. Fabian Lopez
Topografía: Consular Consultores Argentinos Asociados S.A.		Secretario de Recursos Hídricos: Ing. Edgar Castelló
Proyecto: Ing. Ramiro M. García		Presidente APRHI: Ing. Juan Pablo Brarda
Dibujo: Ing. Lucia Otero		VOCALES APRHI: Wierzbicky/Plencovich/Herrero/Suaya

PLANIMETRÍA GENERAL ARROYO EL SAUCE



COORDENADAS GAUSS-KRÜGER POSGAR 94 - Faja 4

LÍNEA DE RIBERA ARROYO EL SAUCE
MARGEN IZQUIERDO

PTO	ESTE	NORTE
183*	4352517.87	6460670.62
184*	4352490.36	6460623.40
185*	4352450.55	6460626.39
186*	4352426.71	6460615.00
187*	4352416.55	6460584.45
188*	4352400.17	6460565.83
189*	4352377.90	6460555.84
190*	4352357.67	6460538.17
191*	4352333.16	6460529.79
192*	4352308.65	6460527.45
193*	4352283.96	6460525.98
194*	4352256.80	6460543.72
195*	4352231.25	6460528.44
196*	4352203.22	6460513.27
197*	4352175.13	6460506.53
198*	4352147.54	6460504.91
199*	4352118.58	6460484.77

PTO	ESTE	NORTE
200*	4352097.00	6460474.05
201*	4352079.42	6460473.69
202*	4352062.68	6460488.12
203*	4352057.42	6460488.88
204*	4352056.61	6460488.02
205*	4352055.29	6460485.34
206*	4352054.44	6460483.35
207*	4352053.64	6460481.87
208*	4352052.83	6460480.54
209*	4352046.32	6460481.22
210*	4352036.08	6460482.20
211*	4352031.50	6460479.51
212*	4352011.56	6460475.57
213*	4352003.02	6460466.28
214*	4351989.77	6460453.31
215*	4351973.21	6460430.66
216*	4351988.37	6460414.78

LÍNEA DE RIBERA ARROYO EL SAUCE
MARGEN DERECHO

PTO	ESTE	NORTE
183	4352465.44	6460717.73
184	4352442.49	6460673.07
185	4352428.90	6460652.26
186	4352411.60	6460636.29
187	4352396.61	6460617.20
188	4352374.52	6460614.70
189	4352353.56	6460608.70
190	4352333.51	6460600.46
191	4352315.80	6460584.79
192	4352296.90	6460577.21
193	4352277.22	6460569.88
194	4352254.66	6460572.28
195	4352231.37	6460572.20
196	4352207.41	6460576.18
197	4352183.38	6460580.59
198	4352158.51	6460579.26
199	4352134.37	6460585.55

PTO	ESTE	NORTE
200	4352109.20	6460589.69
201	4352084.07	6460595.07
202	4352058.63	6460600.85
203	4352033.01	6460603.93
204	4352008.72	6460602.01
205	4351964.33	6460642.73
206	4351949.41	6460616.46
207	4351934.18	6460596.11
208	4351913.84	6460578.09
209	4351897.06	6460555.19
210	4351888.66	6460530.33
211	4351891.22	6460503.39
212	4351899.05	6460476.62
213	4351908.86	6460453.60
214	4351921.27	6460433.18
215	4351944.63	6460417.12
216	4351956.27	6460395.69

LÍNEA DE RIBERA DETERMINADA MEDIANTE MODELACIÓN MATEMÁTICA CON EMPLEO DE MODELO COMPUTACIONAL HEC - RAS, CON UN CAUDAL DE 25 AÑOS DE RECURRENCIA DE:

PROGRESIVA	PROGRESIVA	CAUDAL
0+000.00	0+664.55	48 m^3/s
0+689.60	3+321.14	123 m^3/s
3+345.96	4+845.68	157 m^3/s
4+873.31	5+849.04	200 m^3/s

REFERENCIAS

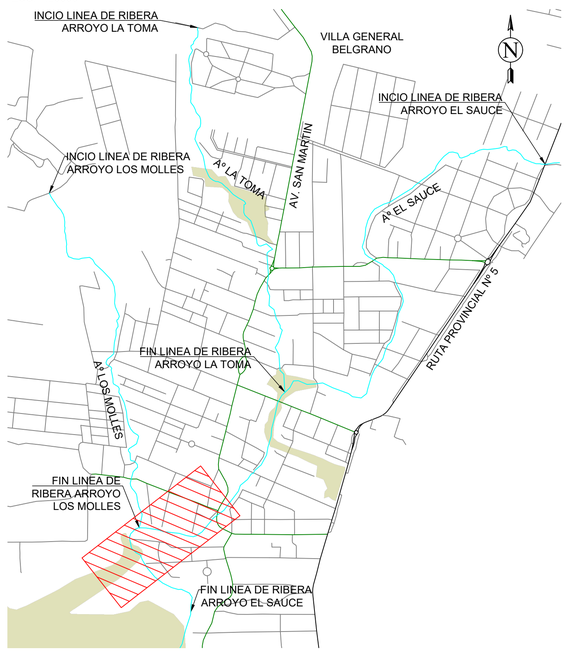
- Mojón de Hierro
- Vértice sin Materializar
- Perfil Transversal
- Línea de Ribera
- Eje del Arroyo
- Mancha Inundación
- Terreno Natural
- Parcelario SIG
- Muro
- Vado
- Azud
- Edificación
- Alcantarilla
- Puente
- Gaviones
- Calle
- Alambrado

DETALLE 1

ESC: 1:150

CROQUIS DE UBICACIÓN

ESC. 1:20000



Esc:1/150

0 1.5 3 6 12

Esc:1/1,000

0 10 20 40 80

APRHI Administración Provincial de Recursos Hídricos | Ministerio de SERVICIOS PÚBLICOS | GOBIERNO DE LA PROVINCIA DE CÓRDOBA | ENTRE TODOS

OBRA: SERVICIOS PROFESIONALES PARA LA DEFINICIÓN DE LA LÍNEA DE RIBERA EN LA ZONA URBANA DE LA LOCALIDAD DE VILLA GENERAL BELGRANO (DEPARTAMENTO CALAMUCHITA)

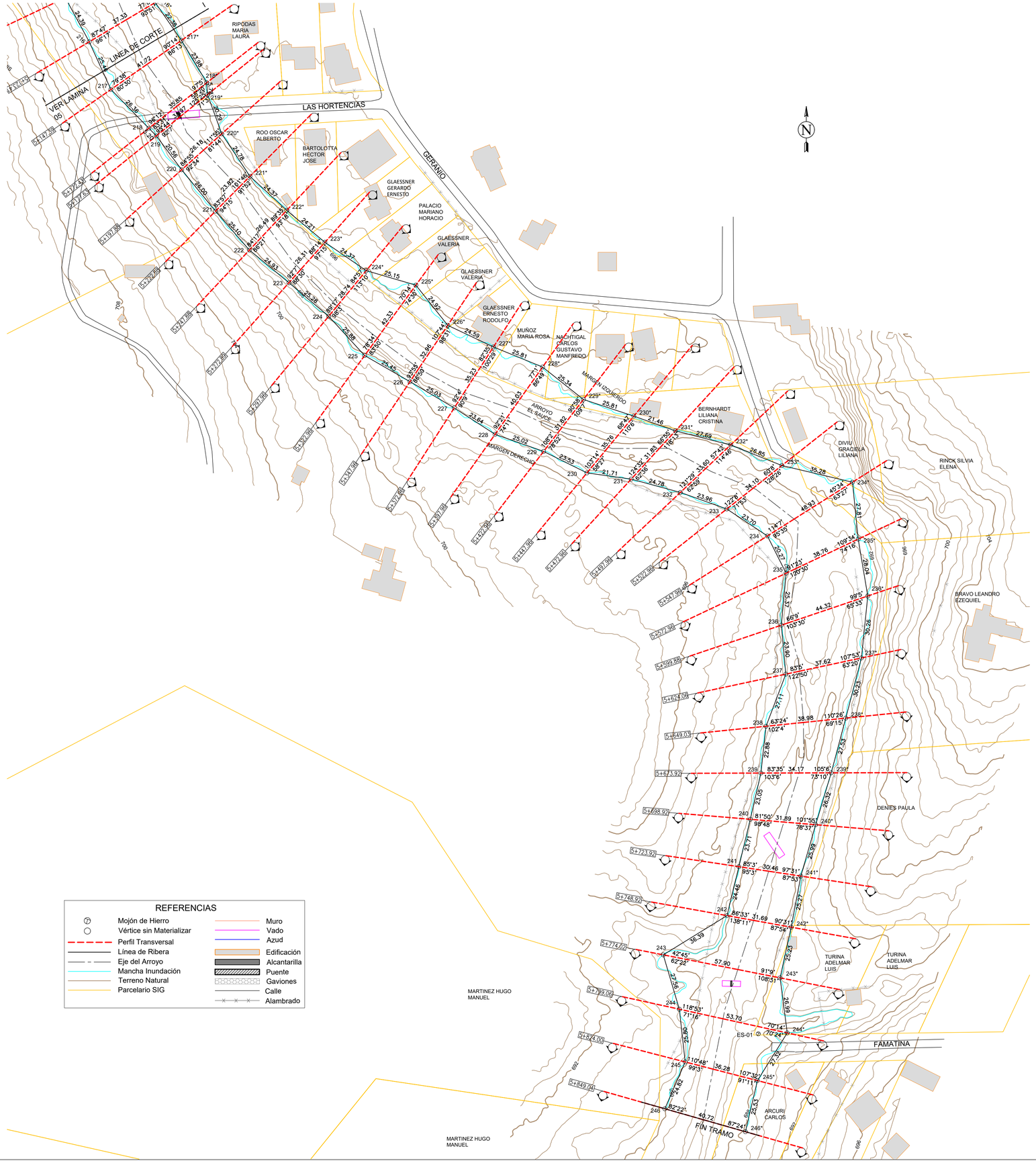
Plano N° 0005

PLANO: ARROYO EL SAUCE PLANIMETRÍA

Localidad: Villa General Belgrano
Dpto.: Calamuchita

Escala: 1:1000	Fecha: Agosto 2020	Ministro: Ing. Fabian Lopez
Topografía: Consular Consultores Argentinos Asociados S.A.		Secretario de Recursos Hídricos: Ing. Edgar Castelló
Proyecto: Ing. Ramiro M. García		Presidente APRHI: Ing. Juan Pablo Brarda
Dibujo: Ing. Lucia Otero		VOCALES APRHI: Wierzbicky/Plencovich/Herrero/Suaya

PLANIMETRÍA GENERAL ARROYO EL SAUCE



COORDENADAS GAUSS-KRÜGER POSGAR 94 - Faja 4

LÍNEA DE RIBERA ARROYO EL SAUCE
MARGEN IZQUIERDO

PTO	ESTE	NORTE
217*	4352001.07	6460396.35
218*	4352013.43	6460375.80
219*	4352013.78	6460370.03
220*	4352020.70	6460350.95
221*	4352034.40	6460330.31
222*	4352052.28	6460313.75
223*	4352070.86	6460298.22
224*	4352090.96	6460284.45
225*	4352115.09	6460277.39
226*	4352130.58	6460257.87
227*	4352152.81	6460247.35
228*	4352176.70	6460237.57
229*	4352196.55	6460221.83
230*	4352221.05	6460213.71
231*	4352241.30	6460206.56

PTO	ESTE	NORTE
232*	4352268.13	6460199.71
233*	4352293.04	6460189.71
234*	4352327.38	6460181.60
235*	4352330.15	6460153.93
236*	4352334.81	6460126.28
237*	4352331.74	6460096.17
238*	4352324.12	6460066.92
239*	4352317.03	6460040.32
240*	4352309.48	6460015.10
241*	4352302.26	6459990.13
242*	4352297.56	6459965.30
243*	4352292.18	6459940.66
244*	4352295.65	6459913.89
245*	4352281.17	6459890.72
246*	4352275.31	6459865.87

LÍNEA DE RIBERA ARROYO EL SAUCE
MARGEN DERECHO

PTO	ESTE	NORTE
217	4351966.82	6460372.52
218	4351985.24	6460353.67
219	4351988.89	6460349.96
220	4352001.20	6460333.49
221	4352017.66	6460313.36
222	4352034.15	6460294.45
223	4352053.37	6460278.57
224	4352072.69	6460262.26
225	4352090.17	6460243.18
226	4352112.23	6460230.49
227	4352133.76	6460217.72
228	4352153.61	6460204.88
229	4352177.20	6460196.56
230	4352198.28	6460186.13
231	4352219.78	6460183.11

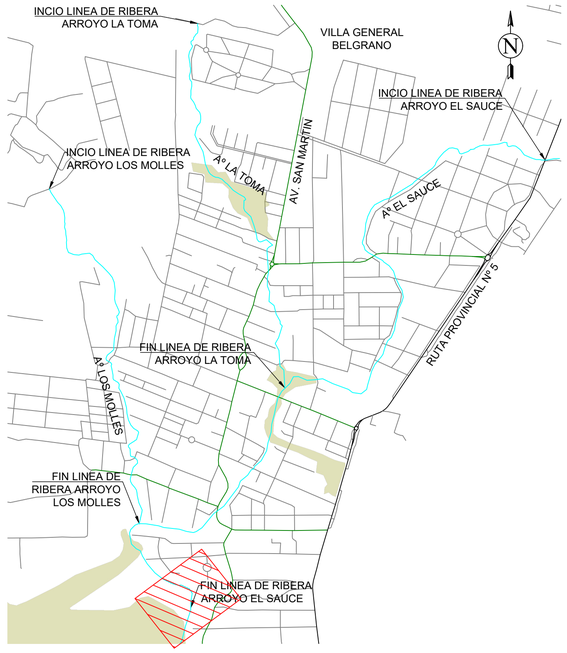
PTO	ESTE	NORTE
232	4352243.70	6460176.63
233	4352266.27	6460168.59
234	4352286.01	6460155.47
235	4352295.11	6460137.37
236	4352292.81	6460112.11
237	4352294.96	6460088.30
238	4352285.35	6460062.96
239	4352282.86	6460040.21
240	4352277.71	6460017.74
241	4352272.15	6459994.69
242	4352266.37	6459970.92
243	4352235.38	6459951.85
244	4352243.20	6459925.42
245	4352246.04	6459899.78
246	4352236.14	6459877.02

LÍNEA DE RIBERA DETERMINADA MEDIANTE MODELACIÓN MATEMÁTICA CON EMPLEO DE MODELO COMPUTACIONAL HEC - RAS, CON UN CAUDAL DE 25 AÑOS DE RECURRENCIA DE:

PROGRESIVA	PROGRESIVA	CAUDAL
0+000.00	0+664.55	48 m^3/s
0+689.60	3+321.14	123 m^3/s
3+345.96	4+845.68	157 m^3/s
4+873.31	5+849.04	200 m^3/s

CROQUIS DE UBICACIÓN

ESC. 1:20000



REFERENCIAS

- Mojón de Hierro
- Vértice sin Materializar
- Perfil Transversal
- Línea de Ribera
- Eje del Arroyo
- Mancha Inundación
- Terreno Natural
- Parcelario SIG
- Muro
- Vado
- Azud
- Edificación
- Alcantarilla
- Puente
- Gaviones
- Calle
- Alambrado

Esc:1/1,000

0 10 20 40 80

APRHI Administración Provincial de Recursos Hídricos | Ministerio de SERVICIOS PÚBLICOS | GOBIERNO DE LA PROVINCIA DE CÓRDOBA | ENTRE TODOS

OBRA: SERVICIOS PROFESIONALES PARA LA DEFINICIÓN DE LA LÍNEA DE RIBERA EN LA ZONA URBANA DE LA LOCALIDAD DE VILLA GENERAL BELGRANO (DEPARTAMENTO CALAMUCHITA)

Plano N° 0006

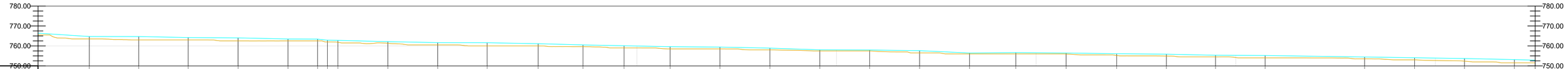
PLANO: ARROYO EL SAUCE PLANIMETRÍA

Localidad: Villa General Belgrano
Dpto.: Calamuchita

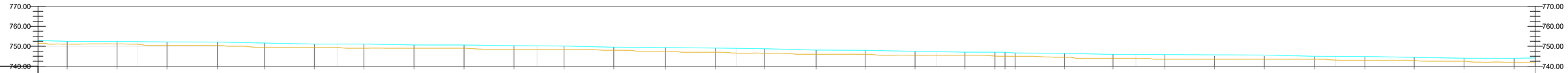
Escala: 1:1000	Fecha: Agosto 2020	Ministro: Ing. Fabian Lopez
Topografia: Consular Consultores Argentinos Asociados S.A.		Secretario de Recursos Hídricos: Ing. Edgar Castelló
Proyecto: Ing. Ramiro M. Garcia		Presidente APRHI: Ing. Juan Pablo Brarda
Dibujo: Ing. Lucia Otero		VOCALES APRHI: Wierzbicky/Plencovich/Herrero/Suaya

PERFIL LONGITUDINAL ARROYO EL SAUCE

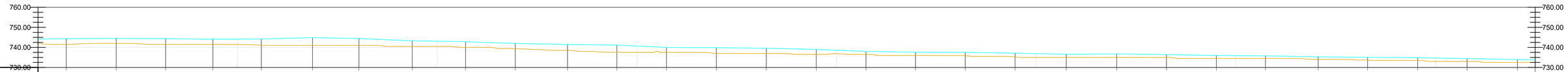
PENDIENTE Pelo de Agua Arroyo EL SAUCE: 0.015 m/m
PENDIENTE Eje de Vaguada Arroyo EL SAUCE: 0.014 m/m



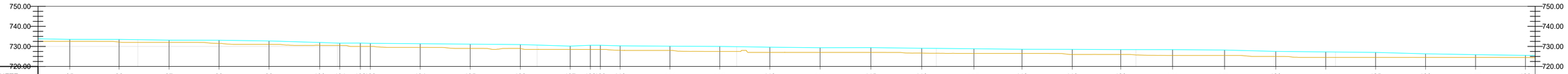
PIQUETE	DIST. PARCIAL	DIST. ACUMULADA	COTA TERRENO	COTA TIRANTE
1			765.51	766.39
2	25.70	25.70	763.50	764.72
3	24.73	50.43	763.00	764.68
4	24.81	75.24	763.00	764.20
5	24.98	100.21	762.50	764.04
6	25.03	125.24	762.50	763.47
7	14.81	140.05	762.50	763.42
8	4.93	144.98	761.99	762.87
9	5.26	150.24	761.80	762.76
10	25.00	175.24	761.31	762.14
11	25.00	200.24	760.50	761.65
12	24.73	224.97	760.00	761.60
13	25.59	250.56	759.98	761.12
14	22.46	273.01	759.62	760.49
15	20.55	293.56	759.00	760.07
16	23.07	316.64	758.50	759.61
17	25.00	341.64	758.50	759.41
18	25.00	366.64	758.00	758.88
19	25.00	391.64	757.50	758.02
20	25.00	416.64	757.47	757.94
21	25.00	441.64	756.50	757.62
22	25.00	466.64	756.00	756.43
23	23.21	489.84	756.00	756.63
24	25.21	515.05	755.94	756.44
25	25.32	540.37	755.18	756.08
26	24.90	565.27	754.92	755.86
27	24.60	589.87	754.50	755.31
28	24.84	614.71	754.00	755.19
29	49.84	664.55	753.53	754.45
30	25.04	689.60	753.00	754.06
31	25.00	714.60	752.34	753.68
32	25.00	739.60	751.50	753.14



PIQUETE	DIST. PARCIAL	DIST. ACUMULADA	COTA TERRENO	COTA TIRANTE
33		764.60	751.10	752.48
34	25.00	789.60	751.17	752.42
35	25.00	814.60	750.51	752.17
36	25.30	839.89	750.49	752.10
37	23.60	863.49	749.52	751.62
38	24.92	888.41	749.50	751.11
39	24.82	913.24	749.00	751.11
40	25.09	938.33	749.00	750.66
41	25.08	963.41	749.00	750.63
42	25.06	988.47	748.50	750.30
43	25.03	1013.50	748.50	750.11
44	24.92	1038.42	748.00	749.53
45	25.91	1064.32	747.50	749.37
46	24.95	1089.27	746.99	749.10
47	24.64	1113.91	746.50	748.78
48	25.85	1139.76	746.00	748.07
49	24.59	1164.35	745.98	747.96
50	25.00	1189.35	745.51	747.49
51	25.01	1214.36	745.50	747.05
52	15.03	1229.39	745.10	747.01
53	5.01	1234.40	745.00	747.00
54	5.12	1239.52	745.00	746.67
55	24.68	1264.20	744.49	746.43
56	24.33	1288.53	744.00	745.92
57	25.98	1314.51	743.50	745.85
58	24.82	1339.32	743.50	745.70
59	25.00	1364.32	743.50	745.60
60	25.08	1389.41	743.50	744.98
61	25.29	1414.70	743.00	744.90
62	24.72	1439.42	742.96	744.44
63	24.96	1464.38	742.48	744.02
64	25.07	1489.45	742.00	744.00



PIQUETE	DIST. PARCIAL	DIST. ACUMULADA	COTA TERRENO	COTA TIRANTE
65		1514.15	741.50	744.36
66	25.01	1539.16	741.99	744.48
67	24.76	1563.91	741.50	744.35
68	23.68	1587.60	741.50	744.09
69	24.27	1611.87	741.05	744.18
70	25.64	1637.52	741.00	744.89
71	23.23	1660.75	741.00	744.41
72	26.70	1687.45	740.50	743.27
73	26.73	1714.18	740.00	742.86
74	24.92	1739.09	739.36	741.99
75	26.15	1765.25	738.48	741.44
76	24.72	1789.96	737.60	741.14
77	24.86	1814.83	737.50	740.00
78	25.00	1839.83	737.00	739.87
79	25.00	1864.83	736.98	739.57
80	25.00	1889.83	736.50	739.00
81	24.96	1914.78	736.49	737.98
82	24.80	1939.58	736.00	737.59
83	24.93	1964.51	735.91	737.54
84	24.96	1989.47	735.24	737.12
85	25.62	2015.09	735.00	736.55
86	25.28	2040.37	735.00	736.76
87	24.92	2065.29	734.96	736.39
88	25.01	2090.31	734.50	735.97
89	24.58	2114.89	734.50	735.78
90	26.43	2141.32	734.00	735.28
91	24.75	2166.07	733.69	735.07
92	25.08	2191.15	733.48	734.89
93	24.73	2215.89	732.98	734.41
94	25.22	2241.10	732.50	733.97



PIQUETE	DIST. PARCIAL	DIST. ACUMULADA	COTA TERRENO	COTA TIRANTE
95		2265.88	732.50	733.51
96	24.74	2290.62	732.17	733.49
97	25.01	2315.63	732.00	733.12
98	25.03	2340.66	731.50	733.09
99	25.06	2365.72	731.00	732.71
100	25.41	2391.13	730.54	731.96
101	10.01	2401.14	730.49	731.61
102	10.33	2411.47	730.00	731.67
103	4.99	2416.46	729.99	731.53
104	25.00	2441.47	729.50	731.34
105	25.04	2466.50	729.00	731.14
106	25.10	2491.60	728.93	730.92
107	25.00	2516.60	728.50	730.16
108	10.10	2526.70	728.49	730.57
109	4.99	2531.69	728.48	730.57
110	9.92	2541.60	728.07	730.28
111	24.95	2566.55	727.99	730.11
112	24.99	2591.54	727.50	729.98
113	25.06	2616.60	727.00	729.60
114	25.18	2641.79	727.00	729.36
115	25.43	2667.21	727.00	729.39
116	25.48	2692.69	726.69	729.09
117	26.16	2718.85	726.50	728.83
118	24.06	2742.91	726.50	728.57
119	25.19	2768.10	726.00	728.52
120	24.29	2792.39	725.99	728.43
121	25.95	2818.34	725.50	728.40
122	26.06	2844.40	725.49	728.19
123	25.69	2870.08	724.99	727.51
124	25.00	2895.08	724.50	727.27
125	25.00	2920.08	724.50	727.00
126	25.05	2945.08	724.51	726.30
127	24.99	2970.13	724.50	725.88
128		2995.13	724.48	725.54

REFERENCIAS
- Pelo de Agua
- Terreno Natural

Esc:1/1,000
0 10 20 40 80

APRHI Administración Provincial de Recursos Hídricos | Ministerio de SERVICIOS PÚBLICOS | GOBIERNO DE LA PROVINCIA DE CÓRDOBA | ENTRE TODOS

OBRA: SERVICIOS PROFESIONALES PARA LA DEFINICIÓN DE LA LÍNEA DE RIBERA EN LA ZONA URBANA DE LA LOCALIDAD DE VILLA GENERAL BELGRANO (DEPARTAMENTO CALAMUCHITA)

Plano N° 0001

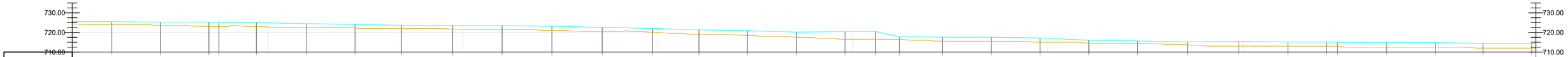
Localidad: Villa General Belgrano
Dpto.: Calamuchita

PLANO: ARROYO EL SAUCE
PERFIL LONGITUDINAL

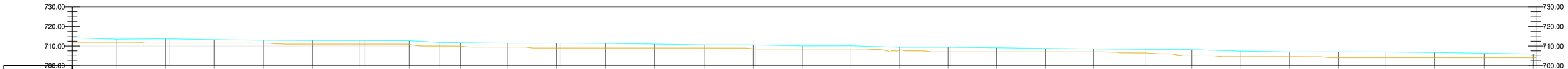
Escala: 1:1000	Fecha: Agosto 2020	Ministro: Ing. Fabian Lopez
Topografía: Consular Consultores Argentinos Asociados S.A.		Secretario de Recursos Hídricos: Ing. Edgar Castelló
Proyecto: Ing. Ramiro M. García		Presidente APRHI: Ing. Juan Pablo Brarda
Dibujo: Ing. Lucia Otero		VOCALES APRHI: Wierzbicky/Plencovich/Herrero/Suaya

PERFIL LONGITUDINAL ARROYO EL SAUCE

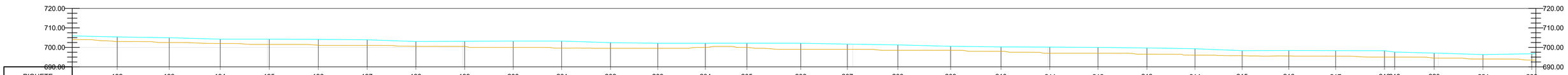
PENDIENTE Pelo de Agua Arroyo EL SAUCE: 0.00XX m/m
PENDIENTE Eje de Vaguada Arroyo EL SAUCE: 0.00XX m/m



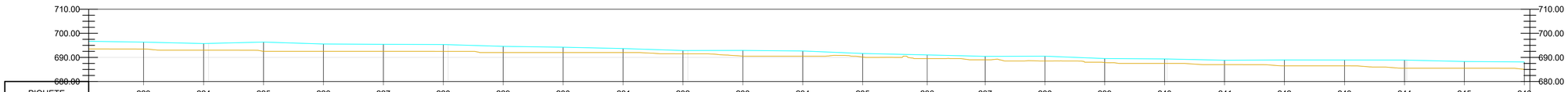
PIQUETE	DIST. PARCIAL	DIST. ACUMULADA	COTA TERRENO	COTA TIRANTE
129		3020.32	724.00	725.48
130	24.82	3045.14	723.53	725.27
131	24.89	3070.03	723.00	725.30
132	5.15	3075.18	723.00	725.00
133	19.16	3094.34	723.00	725.00
134	25.58	3119.92	722.50	724.50
135	24.97	3144.89	722.27	724.07
136	23.78	3168.67	722.00	723.64
137	26.30	3194.97	721.68	723.49
138	25.29	3220.27	721.50	723.43
139	25.52	3245.78	721.00	723.18
140	25.78	3271.56	720.50	722.57
141	25.76	3297.32	720.04	722.02
142	23.82	3321.14	719.00	721.30
143	24.81	3345.96	718.51	720.90
144	25.18	3371.14	717.50	720.14
145	24.84	3395.98	716.50	720.42
146	15.64	3411.62	716.50	720.45
147	12.16	3423.78	716.49	717.78
148	22.20	3445.98	715.54	717.60
149	25.00	3470.98	715.49	717.55
150	24.92	3495.90	715.00	717.20
151	25.01	3520.91	714.51	716.04
152	25.00	3545.91	714.49	715.68
153	25.63	3571.54	713.60	715.17
154	26.29	3597.83	713.00	715.45
155	25.14	3622.97	713.00	715.10
156	19.80	3642.77	712.99	715.10
157	5.54	3648.31	712.90	714.96
158	25.29	3673.60	712.50	714.86
159	24.88	3698.48	712.50	714.76
160	24.46	3722.94	712.00	714.44
161	24.94	3747.87	712.00	714.33



PIQUETE	DIST. PARCIAL	DIST. ACUMULADA	COTA TERRENO	COTA TIRANTE
162		3772.82	712.00	713.58
163	24.99	3797.82	711.50	713.77
164	24.94	3822.76	711.50	713.30
165	25.06	3847.81	711.48	713.03
166	25.23	3873.04	711.00	712.93
167	23.95	3896.99	711.00	712.89
168	25.71	3922.70	710.82	712.78
169	15.67	3938.37	710.01	711.91
170	10.56	3948.93	709.93	711.71
171	24.29	3973.23	709.50	711.47
172	24.95	3998.18	709.00	711.50
173	25.10	4023.28	709.00	711.38
174	25.11	4048.39	709.00	711.03
175	25.75	4074.14	709.00	710.62
176	24.86	4099.00	708.60	710.60
177	24.97	4123.97	708.50	710.08
178	25.01	4148.98	708.49	710.14
179	25.03	4174.00	707.90	709.40
180	24.85	4198.85	707.00	709.41
181	24.87	4223.72	707.00	709.14
182	24.87	4248.59	707.00	708.78
183	24.73	4273.31	707.00	708.52
184	50.43	4323.74	705.00	708.15
185	25.00	4348.74	704.50	707.38
186	25.00	4373.75	704.50	706.95
187	25.00	4398.75	704.00	707.00
188	24.47	4423.22	704.00	706.94
189	24.91	4448.12	704.00	706.68
190	25.34	4473.46	704.00	706.29
191	25.13	4498.59	704.00	705.91



PIQUETE	DIST. PARCIAL	DIST. ACUMULADA	COTA TERRENO	COTA TIRANTE
192		4523.07	703.00	705.37
193	26.64	4549.71	702.50	704.96
194	26.15	4575.86	701.99	704.24
195	25.11	4600.98	701.50	704.21
196	25.10	4626.08	701.09	704.10
197	25.04	4651.12	701.00	703.89
198	25.01	4676.13	700.51	703.03
199	24.95	4701.07	700.50	703.13
200	24.87	4725.95	700.00	703.25
201	24.84	4750.78	699.62	703.24
202	25.04	4775.82	699.50	702.43
203	24.25	4800.07	699.50	702.11
204	24.36	4824.43	700.01	702.12
205	21.24	4845.68	700.00	702.14
206	27.63	4873.31	699.00	702.12
207	23.89	4897.19	699.00	701.68
208	25.86	4923.05	698.50	701.26
209	27.05	4950.10	698.48	700.56
210	25.82	4975.91	697.99	700.22
211	25.03	5000.94	697.00	700.15
212	24.66	5025.60	697.00	700.00
213	25.08	5050.68	696.50	699.70
214	24.64	5075.33	696.00	699.30
215	24.14	5099.46	695.71	698.31
216	23.94	5123.41	695.60	698.38
217	23.98	5147.39	695.50	698.32
218	25.04	5172.43	695.00	698.29
219	5.20	5177.63	695.00	697.60
220	20.25	5197.88	694.50	697.08
221	25.00	5222.88	694.00	696.31
222	25.00	5247.88	693.50	696.72



PIQUETE	DIST. PARCIAL	DIST. ACUMULADA	COTA TERRENO	COTA TIRANTE
223		5272.89	693.46	696.35
224	25.07	5297.96	693.00	695.75
225	25.00	5322.96	692.53	696.36
226	25.00	5347.96	692.50	695.56
227	25.00	5372.96	692.50	695.42
228	25.00	5397.96	692.50	695.34
229	25.00	5422.96	692.00	694.59
230	25.00	5447.96	692.00	694.23
231	25.00	5472.96	692.00	693.68
232	25.00	5497.96	691.50	692.84
233	25.00	5522.96	690.52	692.88
234	25.00	5547.96	690.50	692.66
235	25.00	5572.96	690.15	691.61
236	26.92	5599.88	689.50	691.02
237	24.18	5624.06	689.00	690.43
238	24.97	5649.03	688.50	690.49
239	24.89	5673.92	687.86	689.53
240	25.00	5698.92	687.50	689.35
241	25.00	5723.92	687.00	688.82
242	25.00	5748.92	686.50	688.93
243	25.09	5774.02	686.49	688.91
244	25.04	5799.06	685.50	688.88
245	24.94	5824.00	685.50	688.29
246	25.04	5849.04	685.02	688.11

REFERENCIAS
- Pelo de Agua
- Terreno Natural

Esc:1/1,000
0 10 20 40 80

APRHI Administración Provincial de Recursos Hídricos | Ministerio de SERVICIOS PÚBLICOS | GOBIERNO DE LA PROVINCIA DE CÓRDOBA | ENTRE TODOS

OBRA: SERVICIOS PROFESIONALES PARA LA DEFINICIÓN DE LA LÍNEA DE RIBERA EN LA ZONA URBANA DE LA LOCALIDAD DE VILLA GENERAL BELGRANO (DEPARTAMENTO CALAMUCHITA)

Plano N° 0002

PLANO: ARROYO EL SAUCE
PERFIL LONGITUDINAL

Localidad: Villa General Belgrano
Dpto.: Calamuchita

Escala: 1:1000	Fecha: Agosto 2020	Ministro: Ing. Fabian Lopez
Topografía: Consular Consultores Argentinos Asociados S.A.		Secretario de Recursos Hídricos: Ing. Edgar Castelló
Proyecto: Ing. Ramiro M. García		Presidente APRHI: Ing. Juan Pablo Brarda
Dibujo: Ing. Lucia Otero		VOCALES APRHI: Wierzbicky/Plencovich/Herrero/Suaya

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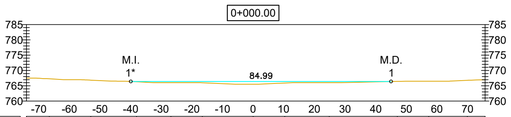
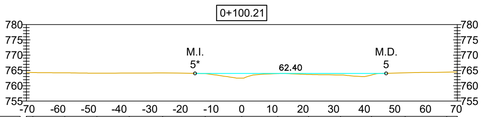


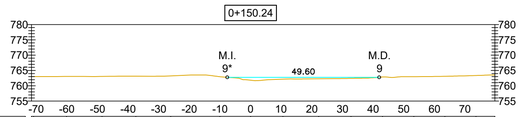
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13
DISTANCIAS PARCIALES	7.48	13.53	14.94	11.24	10.24	16.59	10.30	14.53	22.25	10.26	12.60	5.80	
DISTANCIAS ACUMULADAS	-74.02	-66.54	-53.01	-38.06	-26.83	-16.59	0.00	10.30	24.83	47.08	57.34	69.93	75.74
COTA TN	767.52	767.30	766.84	766.29	766.00	765.98	765.51	765.88	766.00	766.44	766.50	766.79	766.98
NIVEL TIRANTE	766.39												
DISTANCIAS LINEAS DE RIVERA	39.93					45.05							

0+100.21



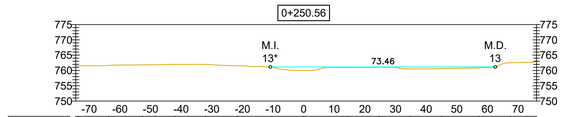
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES	2.13	10.42	10.51	10.52	10.91	13.92	11.91	11.76	10.06	10.47	10.08	10.98	13.60	3.42	
DISTANCIAS ACUMULADAS	-70.96	-68.83	-57.77	-47.26	-36.74	-25.83	-11.91	0.00	11.76	21.81	32.29	42.36	53.35	66.94	70.36
COTA TN	764.38	764.33	764.23	764.10	764.16	764.18	763.99	762.50	763.98	763.69	763.50	763.50	764.23	764.45	764.50
NIVEL TIRANTE	764.04														
DISTANCIAS LINEAS DE RIVERA	15.22					47.19									

0+150.24



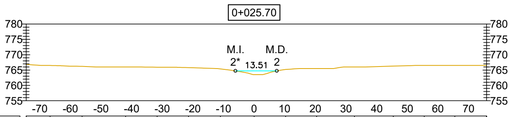
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES	10.75	11.59	11.06	11.39	16.02	10.04	10.53	11.72	10.52	10.28	10.24	10.12	10.16	6.18	
DISTANCIAS ACUMULADAS	-70.96	-60.11	-48.52	-37.45	-26.06	-10.04	0.00	10.53	22.26	32.78	43.06	53.29	63.41	73.57	79.75
COTA TN	763.00	763.05	763.05	763.12	763.21	762.95	761.80	762.18	762.27	762.41	762.88	762.95	763.09	763.36	763.52
NIVEL TIRANTE	762.76														
DISTANCIAS LINEAS DE RIVERA	7.60					42.00									

0+250.56



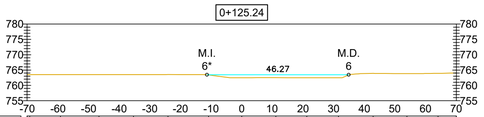
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES	10.01	10.94	10.70	10.02	10.24	11.37	10.42	14.41	10.23	10.11	10.30	12.21	10.17	8.59	
DISTANCIAS ACUMULADAS	-73.70	-63.69	-52.75	-42.05	-32.03	-21.79	-10.42	0.00	14.41	24.64	34.75	45.05	57.25	67.43	76.02
COTA TN	761.50	761.66	761.82	761.99	762.00	761.52	761.09	759.98	761.01	761.00	760.50	760.61	760.85	762.52	762.83
NIVEL TIRANTE	761.12														
DISTANCIAS LINEAS DE RIVERA	10.88					62.58									

0+025.70



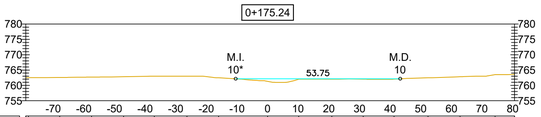
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES	7.79	10.47	14.25	10.26	10.24	10.42	11.01	10.29	10.11	12.37	12.66	10.09	10.01	10.38	
DISTANCIAS ACUMULADAS	-74.44	-66.65	-56.19	-41.94	-31.67	-21.43	-11.01	0.00	10.29	20.40	32.77	45.43	55.52	65.54	75.91
COTA TN	766.69	766.49	766.21	766.00	765.93	765.78	765.38	763.50	765.20	765.50	766.00	766.28	766.50	766.50	766.50
NIVEL TIRANTE	764.72														
DISTANCIAS LINEAS DE RIVERA	6.11	7.40													

0+125.24



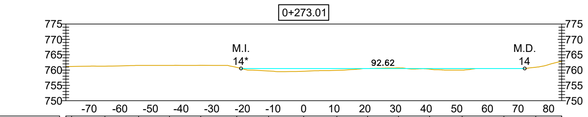
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14
DISTANCIAS PARCIALES	10.04	12.58	11.24	11.26	13.25	10.84	11.12	10.15	10.34	11.28	11.03	10.18	5.99	
DISTANCIAS ACUMULADAS	-70.27	-60.23	-49.59	-38.35	-24.09	-10.84	0.00	11.12	21.27	31.60	42.89	53.92	64.10	70.09
COTA TN	763.51	763.51	763.50	763.50	763.54	763.40	762.50	762.51	762.50	762.50	763.91	763.83	763.94	764.00
NIVEL TIRANTE	763.47													
DISTANCIAS LINEAS DE RIVERA	11.35					34.93								

0+175.24



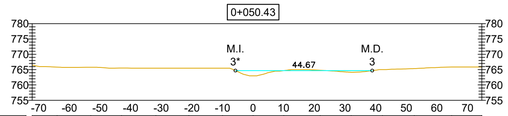
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16
DISTANCIAS PARCIALES	10.25	10.35	10.45	10.07	10.66	10.30	16.01	10.19	10.77	10.25	10.05	11.11	10.44	11.47	6.31	
DISTANCIAS ACUMULADAS	-78.09	-67.84	-57.49	-47.04	-36.97	-26.32	-16.01	0.00	10.19	20.96	31.21	41.27	52.37	62.81	74.28	80.59
COTA TN	762.53	762.56	762.70	762.81	763.00	763.01	762.50	761.31	762.00	762.01	762.04	762.01	762.49	762.82	763.50	763.58
NIVEL TIRANTE	762.14															
DISTANCIAS LINEAS DE RIVERA	10.42					43.33										

0+273.01



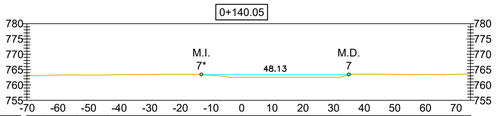
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17
DISTANCIAS PARCIALES	1.88	10.87	11.01	10.08	10.18	11.80	10.34	11.48	10.86	10.01	10.09	10.12	10.64	13.64	10.43	8.47	
DISTANCIAS ACUMULADAS	-75.57	-73.69	-64.90	-53.89	-43.81	-33.62	-21.82	-11.48	0.00	10.86	20.87	30.96	41.09	51.72	65.37	75.90	84.36
COTA TN	761.16	761.27	761.50	761.51	761.53	760.87	759.68	759.62	759.90	760.51	760.69	760.28	760.00	760.50	760.92	762.80	
NIVEL TIRANTE	760.49																
DISTANCIAS LINEAS DE RIVERA	20.43					72.19											

0+050.43



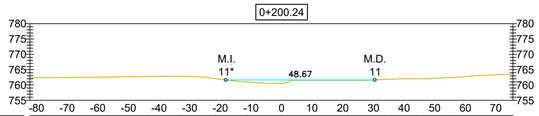
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES	8.13	10.99	10.02	11.25	10.73	11.00	10.00	10.05	11.87	10.10	10.18	10.43	12.17	9.85	
DISTANCIAS ACUMULADAS	-72.19	-64.06	-53.01	-42.98	-31.73	-21.00	-10.00	0.00	10.05	21.91	32.01	42.19	52.62	64.80	74.65
COTA TN	766.47	765.82	765.77	765.51	765.47	765.50	765.50	763.00	764.89	764.80	764.14	765.02	765.34	765.84	765.87
NIVEL TIRANTE	764.68														
DISTANCIAS LINEAS DE RIVERA	5.78					38.89									

0+140.05



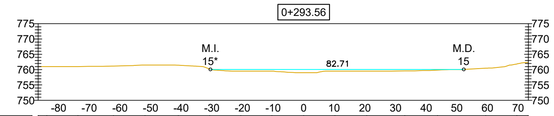
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES	5.72	10.51	10.14	12.14	11.30	10.19	10.13	10.35	11.22	10.85	14.52	11.74	11.12	4.91	
DISTANCIAS ACUMULADAS	-70.14	-64.42	-53.91	-43.77	-31.63	-20.33	-10.13	0.00	10.35	21.57	32.42	46.94	58.67	69.79	74.70
COTA TN	763.04	763.11	763.26	763.27	763.41	763.50	763.12	762.50	762.50	762.50	762.50	763.50	763.37	763.49	763.63
NIVEL TIRANTE	763.42														
DISTANCIAS LINEAS DE RIVERA	13.18					34.95									

0+200.24



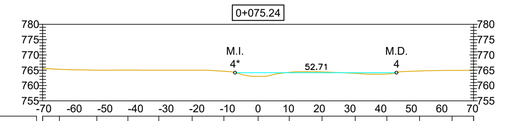
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16
DISTANCIAS PARCIALES	4.52	10.27	10.34	13.12	10.54	11.64	10.40	11.34	10.54	11.18	11.76	10.59	11.13	13.06	7.29	
DISTANCIAS ACUMULADAS	-82.16	-77.66	-67.38	-57.04	-43.92	-33.38	-21.73	-11.34	0.00	10.54	21.73	33.49	44.07	55.20	68.26	75.55
COTA TN	762.29	762.35	762.49	762.56	762.77	762.84	762.09	760.99	760.50	761.51	761.50	761.79	762.00	762.49	763.24	763.59
NIVEL TIRANTE	761.65															
DISTANCIAS LINEAS DE RIVERA	18.25					30.42										

0+293.56



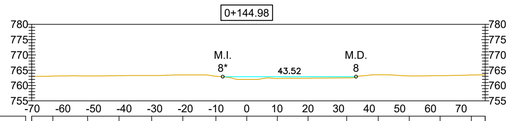
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17
DISTANCIAS PARCIALES	2.83	10.16	11.61	10.27	10.89	10.27	10.15	10.15	10.37	10.21	10.34	12.46	10.70	15.74	10.15	3.72	
DISTANCIAS ACUMULADAS	-85.20	-82.37	-73.71	-62.10	-51.83	-40.94	-30.67	-20.51	-10.37	0.00	10.21	20.56	33.01	43.71	59.45	69.60	79.32
COTA TN	761.99	761.00	761.01	761.17	761.50	761.44	760.17	759.50	759.50	759.00	759.50	759.50	759.57	759.85	760.49	761.86	762.38
NIVEL TIRANTE	760.07																
DISTANCIAS LINEAS DE RIVERA	30.42					52.29											

0+075.24



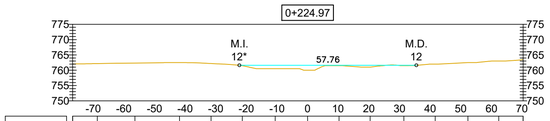
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES	5.46	12.24	10.13	10.08	10.89	10.35	11.19	10.15	10.71	10.83	10.35	10.68	10.60	7.03	
DISTANCIAS ACUMULADAS	-70.35	-64.89	-52.65	-42.52	-32.43	-21.54	-11.19	0.00	10.15	20.86	31.68	42.03	52.71	63.32	70.35
COTA TN	765.50	765.31	765.00	765.06	765.00	765.00	764.66	763.00	764.31	764.46	764.00	763.79	764.77	764.96	765.00
NIVEL TIRANTE	764.20														
DISTANCIAS LINEAS DE RIVERA	7.53					45.18									

0+144.98



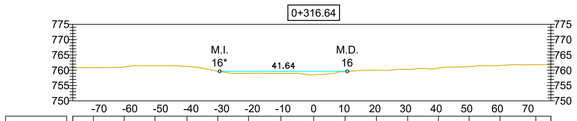
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16
DISTANCIAS PARCIALES	6.90	11.33	10.27	10.67	10.12	10.83	10.05	10.00	10.01	12.64	10.26	10.12	10.11	10.17	4.56	
DISTANCIAS ACUMULADAS	-70.17	-63.27	-51.94	-41.67	-31.00	-20.88	-10.05	0.00	10.00	20.01	32.65	42.92	53.04	63.14	73.31	77.87
COTA TN	763.00	763.08	763.14	763.22	763.26	763.47	763.00	761.99	762.31	762.40	762.50	763.51	763.16	763.23	763.45	763.55
NIVEL TIRANTE	762.87															
DISTANCIAS LINEAS DE RIVERA	7.83					35.70										

0+224.97



PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES	8.04	12.30	14.53	10.29	10.21	10.76	10.57	10.27	10.15	11.02	10.23	10.67	10.07	7.95	
DISTANCIAS ACUMULADAS	-76.70	-68.66	-56.36	-41.83	-31.54	-21.33	-10.57	0.00	10.27	20.42	31.44	41.66	52.33	62.40	70.36
COTA TN	762.04	762.18	762.35	762.50	762.20	761.50	760.50	760.00	761.50	761.02	761.48	762.00	762.50	763.01	763.48
NIVEL TIRANTE	761.60														
DISTANCIAS LINEAS DE RIVERA	22.24					35.52									

0+316.64



PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17
DISTANCIAS PARCIALES	6.72	10.00	10.08	10.46	10.05	10.03	10.60	10.69	10.23	10.25	10.22	10.01	10.03	10.08	11.70	4.89	
DISTANCIAS ACUMULADAS	-76.93	-71.91	-61.91	-51.83	-41.36	-31.32	-21.29	-10.69	0.00	10.23	20.48	30.71	40.72	50.74	60.82	72.52	77.41
COTA TN	760.61	760.85	761.06	761.50	761.21	759.71	759.00	759.01	758.50	759.55	760.00	760.30	760.73	761.19	761.51	761.81	761.90
NIVEL TIRANTE	759.61																
DISTANCIAS LINEAS DE RIVERA	30.67					10.97											

REFERENCIAS

- Pelo de Agua
- Terreno Natural

Esc:1/1,000

0 10 20 40 80

APRHI Administración Provincial de Recursos Hídricos | Ministerio de SERVICIOS PUBLICOS | GOBIERNO DE LA PROVINCIA DE CÓRDOBA | ENTRE TODOS

OBRA: SERVICIOS PROFESIONALES PARA LA DEFINICIÓN DE LA LÍNEA DE RIBERA EN LA ZONA URBANA DE LA LOCALIDAD DE VILLA GENERAL BELGRANO (DEPARTAMENTO CALAMUCHITA)

Plano N° 0001

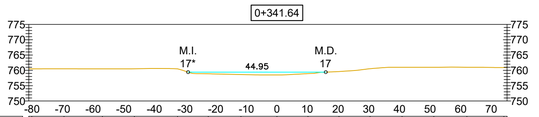
Localidad Villa General Belgrano

Dpto. Calamuchita

PLANO: ARROYO EL SAUCE
SECCIONES TRANSVERSALES

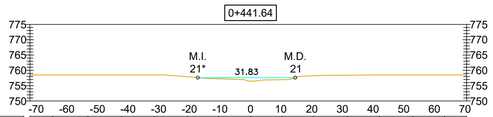
Escala: 1:1000	**Fecha: Agosto 2020**	**Ministro: Ing. Fabian Lopez**
Topografía: Consular Consultores Argentinos Asociados S.A.		**Secretario de Recursos Hídricos: Ing. Edgar Castelló**
Proyecto: Ing. Ramiro M. García		**Presidente APRHI: Ing. Juan Pablo Brarda**
Dibujo: Ing. Lucia Otero		**VOCALES APRHI: Wierzbicky/Plencovich/Herrero/Suaya**

0+341.64



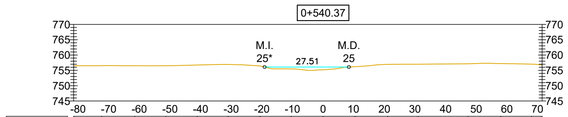
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16
DISTANCIAS PARCIALES	0.97	10.53	12.52	10.44	14.08	10.05	10.67	11.74	10.13	10.12	10.14	10.46	10.39	10.79	12.07	1.03
DISTANCIAS ACUMULADAS	-81.83	-71.86	-69.51	-56.99	-46.54	-32.46	-22.41	-11.74	0.00	10.13	20.25	30.39	40.85	51.24	62.02	63.05
COTA TN	760.51	760.51	760.50	760.51	760.50	758.88	758.62	758.50	758.94	759.61	760.54	761.00	761.00	761.00	760.92	760.92
NIVEL TIRANTE	759.41															
DISTANCIAS LINEAS DE RIVERA	29.00							15.95								

0+441.64



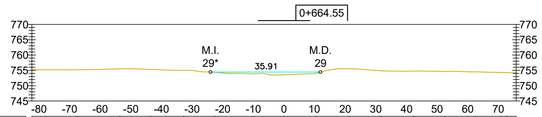
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES	7.43	11.49	10.97	10.60	10.79	10.29	10.46	10.24	10.18	11.10	10.56	10.91	10.31	7.23	
DISTANCIAS ACUMULADAS	-72.02	-64.59	-53.10	-42.13	-31.53	-20.74	-10.46	0.00	10.24	20.41	31.51	42.08	52.99	63.30	70.53
COTA TN	758.50	758.50	758.50	758.50	758.50	757.92	757.25	756.50	756.95	758.22	758.42	758.49	758.50	758.50	758.50
NIVEL TIRANTE	757.62														
DISTANCIAS LINEAS DE RIVERA	17.23							14.61							

0+540.37



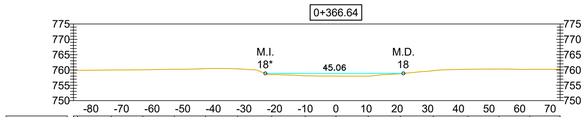
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16
DISTANCIAS PARCIALES	9.16	10.81	10.09	10.26	10.15	10.39	10.14	10.43	10.43	10.61	10.03	16.29	10.70	10.02	3.44	
DISTANCIAS ACUMULADAS	-81.43	-72.27	-61.47	-51.37	-41.11	-30.96	-20.56	-10.43	0.00	10.43	21.04	31.06	47.35	58.05	68.06	71.50
COTA TN	756.52	756.55	756.50	756.50	756.74	756.93	756.43	755.50	755.18	756.20	756.96	757.00	757.15	757.22	757.01	756.76
NIVEL TIRANTE	756.08															
DISTANCIAS LINEAS DE RIVERA	19.09							8.42								

0+664.55



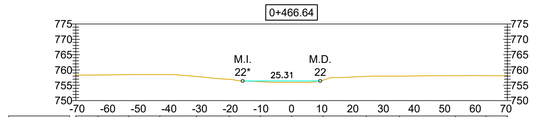
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17
DISTANCIAS PARCIALES	4.24	10.62	13.85	10.08	10.71	10.28	12.48	10.04	10.40	11.30	10.14	10.53	10.03	10.08	10.25	3.06	
DISTANCIAS ACUMULADAS	-82.30	-78.06	-67.44	-53.59	-43.51	-32.81	-22.53	-10.04	0.00	10.40	21.69	31.83	42.37	52.40	62.47	72.73	75.79
COTA TN	755.18	755.18	755.18	755.50	755.30	755.00	754.36	753.85	753.53	754.00	755.50	754.85	754.75	754.64	754.51	754.27	754.21
NIVEL TIRANTE	754.45																
DISTANCIAS LINEAS DE RIVERA	23.99								11.92								

0+366.64



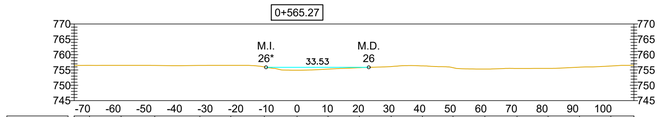
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17
DISTANCIAS PARCIALES	1.38	11.00	10.29	10.28	10.14	10.52	11.13	10.90	10.06	10.54	10.48	10.74	11.31	10.14	10.09	9.90	
DISTANCIAS ACUMULADAS	-85.71	-84.34	-73.33	-63.04	-52.76	-42.62	-32.10	-20.97	-10.06	0.00	10.54	21.02	31.76	43.08	53.21	63.30	73.20
COTA TN	759.89	759.89	760.00	760.06	760.24	760.44	760.36	758.50	758.10	758.00	758.00	758.79	759.77	760.22	760.29	760.21	760.18
NIVEL TIRANTE	758.88																
DISTANCIAS LINEAS DE RIVERA	23.03								22.04								

0+466.64



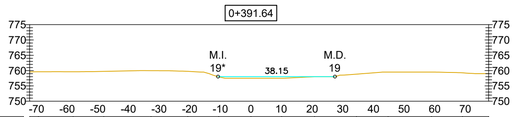
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14
DISTANCIAS PARCIALES	7.24	10.05	10.17	11.93	10.70	10.13	10.22	10.25	14.12	10.84	18.23	10.06	6.94	
DISTANCIAS ACUMULADAS	-70.45	-63.20	-53.16	-42.98	-31.05	-20.35	-10.22	0.00	10.25	24.38	35.21	53.45	63.50	70.45
COTA TN	758.31	758.35	758.47	758.50	757.87	757.00	756.17	756.00	756.65	757.90	758.00	758.15	758.15	758.12
NIVEL TIRANTE	756.43													
DISTANCIAS LINEAS DE RIVERA	15.95							9.35						

0+565.27



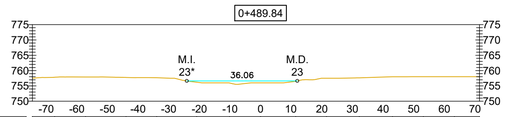
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
DISTANCIAS PARCIALES	4.99	10.29	11.01	14.74	10.07	10.96	10.68	10.10	10.23	10.38	10.19	10.01	10.39	10.52	10.12	10.26	10.23	7.54	
DISTANCIAS ACUMULADAS	-76.76	-71.77	-67.76	-57.47	-46.46	-31.72	-21.65	-10.68	0.00	10.10	20.34	30.71	40.91	50.92	61.30	71.82	81.94	92.21	102.43	109.97
COTA TN	756.49	756.50	756.50	756.48	756.48	756.50	756.00	754.92	755.28	755.74	756.11	756.33	755.75	755.29	755.50	755.51	755.91	756.30	756.49	
NIVEL TIRANTE	755.86																		
DISTANCIAS LINEAS DE RIVERA	10.13								23.40										

0+391.64



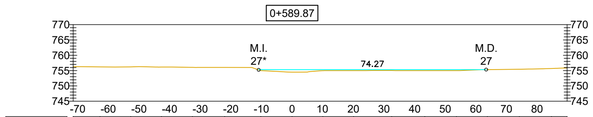
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES	2.85	11.34	10.00	15.42	12.00	10.10	10.53	10.03	10.73	13.70	10.32	14.17	10.11	8.57	
DISTANCIAS ACUMULADAS	-72.24	-69.39	-58.05	-48.05	-32.63	-20.63	-10.53	0.00	10.03	20.76	34.46	44.78	58.94	69.05	77.62
COTA TN	759.88	759.61	759.61	759.74	759.98	759.76	757.96	757.50	757.50	758.00	758.83	759.50	759.50	759.27	759.00
NIVEL TIRANTE	758.02														
DISTANCIAS LINEAS DE RIVERA	10.72							27.42							

0+489.84



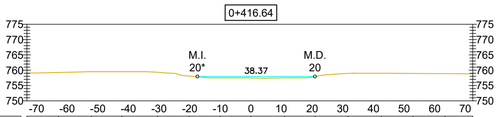
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES	7.29	10.07	13.23	10.01	13.06	10.73	10.14	11.48	10.05	10.73	10.82	10.06	10.13	8.19	
DISTANCIAS ACUMULADAS	-74.52	-67.23	-57.16	-43.93	-33.92	-20.87	-10.14	0.00	11.48	21.53	32.26	43.08	53.14	63.27	71.45
COTA TN	757.52	757.83	757.90	757.75	757.67	756.21	755.95	756.00	756.50	757.50	757.63	757.99	758.00	758.00	758.00
NIVEL TIRANTE	756.63														
DISTANCIAS LINEAS DE RIVERA	24.08							11.97							

0+589.87



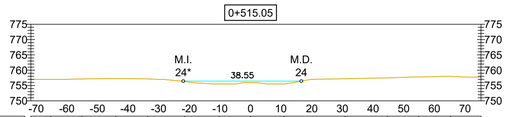
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17
DISTANCIAS PARCIALES	8.77	10.02	10.05	10.12	10.52	11.79	10.21	10.06	10.04	12.45	10.78	10.33	10.10	10.45	10.47	5.11	
DISTANCIAS ACUMULADAS	-71.48	-62.71	-52.69	-42.64	-32.52	-22.00	-10.21	0.00	10.06	20.10	32.54	43.33	53.66	63.76	74.21	84.68	89.79
COTA TN	756.31	756.20	756.21	756.16	756.05	756.03	755.00	754.50	754.98	755.00	755.03	755.00	755.00	755.32	755.44	755.68	755.66
NIVEL TIRANTE	755.31																
DISTANCIAS LINEAS DE RIVERA	10.90								63.38								

0+416.64



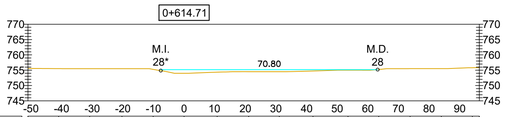
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES	10.29	10.68	10.02	11.66	10.29	10.13	10.06	11.00	10.00	10.68	10.93	10.30	10.47	9.05	
DISTANCIAS ACUMULADAS	-73.13	-62.84	-52.16	-42.14	-30.48	-20.19	-10.06	0.00	11.00	21.00	31.68	42.61	52.91	63.38	72.43
COTA TN	759.04	759.26	759.50	759.50	759.32	758.10	757.50	757.47	757.49	757.96	758.95	759.00	758.93	758.90	758.80
NIVEL TIRANTE	757.94														
DISTANCIAS LINEAS DE RIVERA	17.48							20.89							

0+515.05



PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14
DISTANCIAS PARCIALES	6.52	10.13	11.11	10.36	12.07	11.44	10.09	10.88	20.04	13.70	10.27	10.39	9.93	
DISTANCIAS ACUMULADAS	-77.13	-65.20	-55.07	-43.96	-33.60	-21.53	-10.09	0.00	10.88	30.92	44.62	54.90	65.29	75.22
COTA TN	757.09	757.00	757.13	757.26	757.16	756.36	755.50	755.94	755.50	757.22	757.50	757.80	758.00	757.67
NIVEL TIRANTE	756.44													
DISTANCIAS LINEAS DE RIVERA	21.98							16.56						

0+614.71



PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16
DISTANCIAS PARCIALES	10.00	10.15	10.54	10.18	10.09	10.80	10.29	10.00	11.00	11.42	10.04	10.25	10.20	10.10	2.27	
DISTANCIAS ACUMULADAS	-90.96	-80.96	-70.81	-60.27	-50.09	-39.41	-28.61	-18.32	-7.32	4.10	14.14	24.18	34.38	44.58	46.85	49.12
COTA TN	755.57	755.52	755.49	755.50	755.26	754.00	754.35	754.51	754.50	754.74	755.00	755.21	755.51	755.53	755.81	755.85
NIVEL TIRANTE	755.19															
DISTANCIAS LINEAS DE RIVERA	7.60								63.20							

REFERENCIAS

- Pelo de Agua
- Terreno Natural

Esc:1/1,000

0 10 20 40 80

OBRA: SERVICIOS PROFESIONALES PARA LA DEFINICIÓN DE LA LÍNEA DE RIBERA EN LA ZONA URBANA DE LA LOCALIDAD DE VILLA GENERAL BELGRANO (DEPARTAMENTO CALAMUCHITA)

Plano N° 0002

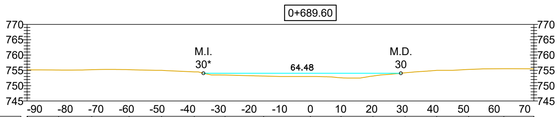
PLANO: ARROYO EL SAUCE SECCIONES TRANSVERSALES

Localidad: Villa General Belgrano

Dpto.: Calamuchita

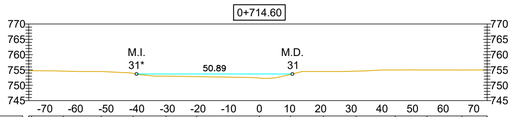
Escala: 1:1000	Fecha: Agosto 2020	Ministro: Ing. Fabian Lopez
Topografia: Consular Consultores Argentinos Asociados S.A.		Secretario de Recursos Hidricos: Ing. Edgar Castelló
Proyecto: Ing. Ramiro M. García		Presidente APRHI: Ing. Juan Pablo Brarda
Dibujo: Ing. Lucia Otero		VOCALES APRHI: Wierzbicky/Plencovich/Herrero/Suaya

0+689.60



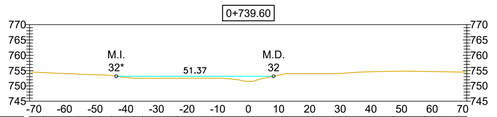
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16
DISTANCIAS PARCIALES		10.12	10.85	12.17	10.63	10.66	10.02	12.62	15.27	10.01	10.41	10.52	10.33	10.42	11.47	9.81
DISTANCIAS ACUMULADAS	90.33	80.21	71.36	59.19	48.56	37.90	27.88	15.27	0.00	10.01	20.41	30.93	41.26	51.68	63.15	72.96
COTA TN	755.16	755.10	755.21	755.22	755.00	754.50	753.49	753.15	753.00	752.58	753.15	754.20	755.00	755.30	755.53	755.59
NIVEL TIRANTE	754.06															
DISTANCIAS LINEAS DE RIVERA								34.93		29.55						

0+714.60



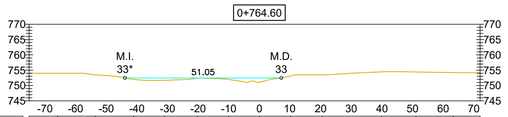
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14
DISTANCIAS PARCIALES		10.36	12.40	10.39	10.75	10.02	20.46	10.12	10.80	10.68	12.75	10.32	11.48	8.20
DISTANCIAS ACUMULADAS	74.38	64.02	51.62	41.22	30.48	20.46	0.00	10.12	20.92	31.60	44.35	54.67	66.15	74.35
COTA TN	754.75	754.63	754.49	753.90	753.00	752.83	752.34	753.50	754.50	754.62	755.01	755.01	754.99	754.99
NIVEL TIRANTE	753.68													
DISTANCIAS LINEAS DE RIVERA						40.11		10.78						

0+739.60



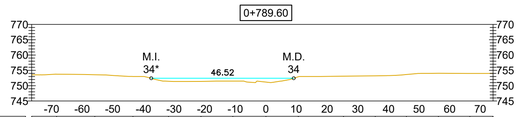
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES		4.54	11.37	10.73	10.29	11.34	11.93	11.21	11.04	10.04	11.01	15.05	10.38	10.55	3.25
DISTANCIAS ACUMULADAS	71.42	66.89	55.51	44.78	34.49	23.15	11.21	0.00	11.04	21.08	32.08	47.14	57.52	68.07	71.32
COTA TN	754.50	754.34	753.83	753.38	752.48	752.50	752.50	751.50	753.76	754.00	754.20	754.77	754.72	754.55	754.51
NIVEL TIRANTE	753.14														
DISTANCIAS LINEAS DE RIVERA						43.11		8.26							

0+764.60



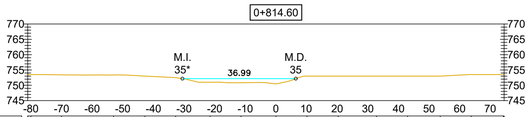
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14
DISTANCIAS PARCIALES		9.34	12.23	12.56	10.17	10.63	10.18	10.06	10.11	10.31	19.42	11.26	12.20	8.76
DISTANCIAS ACUMULADAS	76.16	66.84	53.60	41.04	30.87	20.24	10.06	0.00	10.11	20.42	39.84	51.10	63.30	72.06
COTA TN	754.00	753.99	753.49	751.99	751.71	752.38	752.00	751.10	753.09	753.50	754.45	754.43	754.23	754.16
NIVEL TIRANTE	752.48													
DISTANCIAS LINEAS DE RIVERA						43.89		7.16						

0+789.60



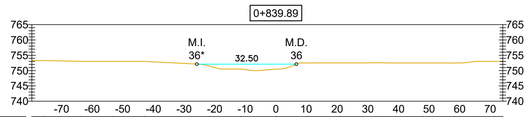
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES		8.11	12.51	12.44	11.59	10.61	10.40	10.80	10.57	14.74	10.38	10.17	10.44	10.26	7.58
DISTANCIAS ACUMULADAS	76.46	68.35	55.84	43.40	31.81	21.20	10.80	0.00	10.57	25.32	35.70	45.87	56.31	66.57	74.15
COTA TN	753.56	753.75	753.57	753.01	751.43	751.38	751.49	751.17	752.91	753.09	753.21	753.65	754.05	754.00	753.99
NIVEL TIRANTE	752.42														
DISTANCIAS LINEAS DE RIVERA						37.44		9.08							

0+814.60



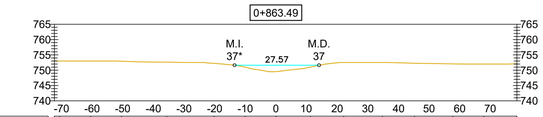
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES		10.02	16.98	10.23	10.03	11.22	10.12	11.40	10.13	10.19	12.55	10.10	10.67	10.12	10.49	10.23
DISTANCIAS ACUMULADAS	80.01	69.99	53.00	42.77	32.74	21.53	11.40	0.00	10.13	20.32	32.87	42.98	53.64	63.76	74.25	80.01
COTA TN	753.50	753.42	753.37	753.00	752.50	751.00	750.83	750.51	753.00	753.00	753.00	753.00	753.00	753.50	753.50
NIVEL TIRANTE	752.17														
DISTANCIAS LINEAS DE RIVERA						30.50		6.49							

0+839.89



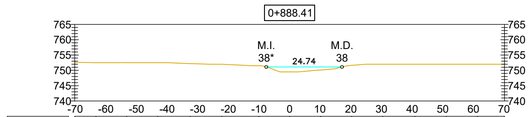
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16
DISTANCIAS PARCIALES		4.10	11.98	10.54	10.13	11.14	10.02	10.42	11.35	10.40	10.57	12.52	14.50	10.30	13.06	2.73
DISTANCIAS ACUMULADAS	79.68	75.59	63.61	53.06	42.93	31.79	21.77	11.35	0.00	10.40	20.97	33.49	47.99	58.28	71.35	74.07
COTA TN	753.34	753.25	753.03	753.00	753.00	752.46	751.50	750.51	750.49	752.50	752.51	752.56	752.50	752.47	753.00	753.00
NIVEL TIRANTE	752.10															
DISTANCIAS LINEAS DE RIVERA								25.82		6.68						

0+863.49



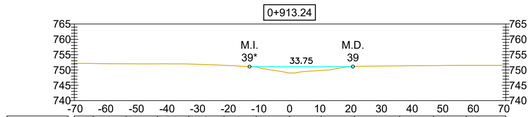
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES	1.82	10.06	10.05	14.80	15.41	10.14	10.06	11.27	10.85	12.65	10.47	12.53	10.14	10.77	
DISTANCIAS ACUMULADAS	79.35	77.53	67.47	60.42	50.37	35.62	20.21	10.06	0.00	11.27	22.12	34.77	45.24	57.78	67.92	78.69
COTA TN	753.00	753.00	753.00	752.93	752.63	752.23	751.00	749.52	750.99	752.50	752.50	752.28	752.07	752.00	752.69
NIVEL TIRANTE	751.62														
DISTANCIAS LINEAS DE RIVERA							13.49		14.08						

0+888.41



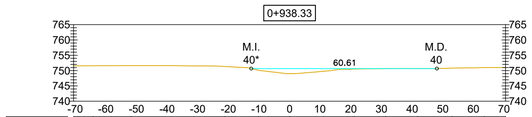
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES		6.95	10.01	10.13	10.59	10.34	12.12	10.02	10.20	10.05	10.14	10.53	10.27	10.23	8.74
DISTANCIAS ACUMULADAS	70.16	63.21	53.20	43.07	32.48	22.14	10.02	0.00	10.20	20.25	30.40	40.92	51.19	61.42	70.16
COTA TN	752.60	752.51	752.52	752.50	752.20	752.00	751.50	749.50	750.11	751.64	752.00	752.00	752.00	752.00	752.69
NIVEL TIRANTE	751.11														
DISTANCIAS LINEAS DE RIVERA							7.62		17.12						

0+913.24



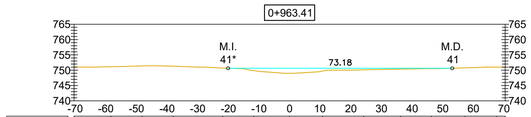
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14
DISTANCIAS PARCIALES		6.15	10.78	10.19	10.29	11.49	10.49	10.92	10.37	10.76	14.81	11.01	10.78	12.85
DISTANCIAS ACUMULADAS	70.39	64.15	53.37	43.18	32.89	21.41	10.92	0.00	10.37	21.13	35.94	46.95	57.73	70.58
COTA TN	752.20	752.12	752.02	752.00	751.94	751.52	751.00	749.00	749.85	751.13	751.33	751.43	751.50	751.50
NIVEL TIRANTE	751.11													
DISTANCIAS LINEAS DE RIVERA							13.07		20.68					

0+938.33



PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14
DISTANCIAS PARCIALES		6.32	12.40	20.51	10.12	10.96	10.19	10.98	10.12	10.29	10.42	11.26	10.47	6.96
DISTANCIAS ACUMULADAS	70.51	64.19	51.79	31.28	21.16	10.19	0.00	10.98	21.10	31.39	41.81	53.07	63.54	70.50
COTA TN	751.59	751.58	751.63	751.52	751.34	750.10	749.00	749.76	750.50	750.64	750.64	750.80	751.00	751.00
NIVEL TIRANTE	750.66													
DISTANCIAS LINEAS DE RIVERA						12.52		48.09						

0+963.41



PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14
DISTANCIAS PARCIALES		12.06	10.18	10.16	16.12	10.16	11.68	10.72	13.44	12.10	10.04	10.97	10.32	2.77
DISTANCIAS ACUMULADAS	70.37	58.31	48.12	37.96	21.84	11.68	0.00	10.72	24.16	36.26	46.30	57.28	67.59	70.37
COTA TN	751.66	751.14	751.39	751.31	750.69	749.86	749.00	749.72	750.11	750.34	750.50	750.77	751.00	751.00
NIVEL TIRANTE	750.63													
DISTANCIAS LINEAS DE RIVERA						20.07		53.11						

REFERENCIAS

- Pelo de Agua
- Terreno Natural

Esc:1/1,000

0 10 20 40 80

OBRA: SERVICIOS PROFESIONALES PARA LA DEFINICIÓN DE LA LÍNEA DE RIBERA EN LA ZONA URBANA DE LA LOCALIDAD DE VILLA GENERAL BELGRANO (DEPARTAMENTO CALAMUCHITA)

Plano N° 0003

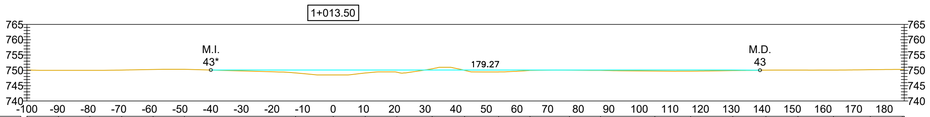
Localidad: Villa General Belgrano

Dpto.: Calamuchita

PLANO: ARROYO EL SAUCE SECCIONES TRANSVERSALES

Escala: 1:1000	Fecha: Agosto 2020	Ministro: Ing. Fabian Lopez
Topografía: Consular Consultores Argentinos Asociados S.A.		Secretario de Recursos Hídricos: Ing. Edgar Castelló
Proyecto: Ing. Ramiro M. García		Presidente APRHI: Ing. Juan Pablo Brarda
Dibujo: Ing. Lucia Otero		VOCALES APRHI: Wierzbicky/Plencovich/Herrero/Suaya

1+013.50

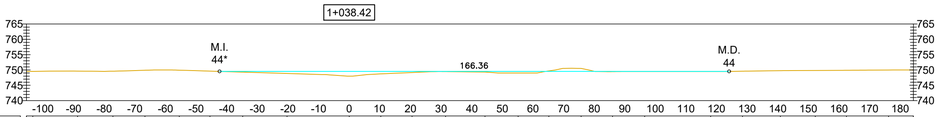


PUNTOS	DISTANCIAS PARCIALES	DISTANCIAS ACUMULADAS	COTA TN
P1		-100.01	750.12
P2	10.28	-89.73	750.00
P3	10.28	-79.45	750.00
P4	10.40	-69.05	750.10
P5	10.23	-58.82	750.28
P6	10.23	-48.58	750.35
P7	36.27	-12.31	749.17
P8	12.31	0.00	748.50
P9	10.42	10.42	749.13
P10	10.35	20.78	749.39
P11	11.52	32.30	750.50
P12	10.60	42.91	750.00
P13	11.08	53.99	749.49
P14	10.25	64.23	750.00
P15	12.89	77.13	750.08
P16	10.13	87.26	750.00
P17	17.74	105.00	749.77
P18	11.66	116.66	749.74
P19	13.78	130.44	749.94
P20	10.82	141.25	750.07
P21	10.45	151.71	750.10
P22	11.60	163.31	750.09
P23	12.02	175.32	750.22
P24	10.47	186.79	750.32
P25	0.62	187.41	

NIVEL TIRANTE: 750.11

DISTANCIAS LINEAS DE RIVERA: 39.94 | 139.33

1+038.42

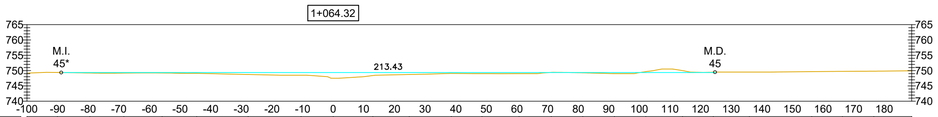


PUNTOS	DISTANCIAS PARCIALES	DISTANCIAS ACUMULADAS	COTA TN
P1		-103.32	749.54
P2	2.05	-101.27	749.62
P3	14.62	-88.70	749.60
P4	11.54	-77.17	749.91
P5	10.46	-66.71	749.93
P6	11.22	-55.48	749.63
P7	10.02	-45.47	749.29
P8	10.69	-34.77	748.85
P9	14.47	-20.30	748.00
P10	20.30	0.00	748.73
P11	10.31	10.31	749.16
P12	10.19	20.50	749.48
P13	10.95	31.45	749.33
P14	12.86	44.31	749.00
P15	10.82	55.13	749.69
P16	10.04	65.16	750.50
P17	10.54	75.70	749.45
P18	10.24	85.94	749.50
P19	10.53	96.47	749.50
P20	21.53	118.00	749.50
P21	10.39	128.40	749.61
P22	12.36	140.75	749.78
P23	11.40	152.15	749.84
P24	10.18	162.33	749.90
P25	13.75	176.08	749.99
P26	8.11	184.19	750.01

NIVEL TIRANTE: 749.53

DISTANCIAS LINEAS DE RIVERA: 42.34 | 124.02

1+064.32

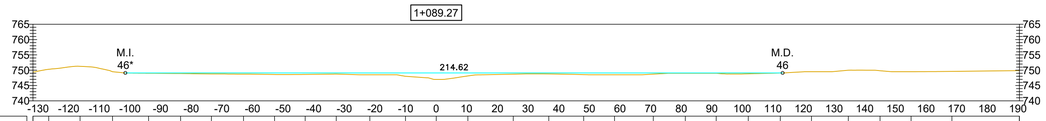


PUNTOS	DISTANCIAS PARCIALES	DISTANCIAS ACUMULADAS	COTA TN
P1		-100.50	749.17
P2	9.93	-90.07	749.39
P3	10.63	-79.44	749.20
P4	11.12	-68.32	749.19
P5	12.46	-55.86	749.22
P6	11.29	-44.57	749.10
P7	16.77	-27.80	748.72
P8	17.30	-10.50	748.50
P9	10.50	0.00	747.50
P10	12.92	12.92	748.39
P11	11.90	24.82	748.72
P12	13.74	38.57	749.08
P13	10.01	48.58	749.00
P14	12.08	60.66	748.99
P15	10.54	71.19	749.42
P16	10.27	81.46	749.26
P17	10.33	91.79	749.00
P18	10.26	102.05	749.66
P19	11.99	114.03	750.00
P20	10.03	124.07	749.47
P21	11.79	135.86	749.50
P22	20.36	156.22	749.66
P23	10.01	166.24	749.74
P24	10.26	176.49	749.81
P25	12.36	188.85	749.94

NIVEL TIRANTE: 749.37

DISTANCIAS LINEAS DE RIVERA: 88.80 | 124.64

1+089.27

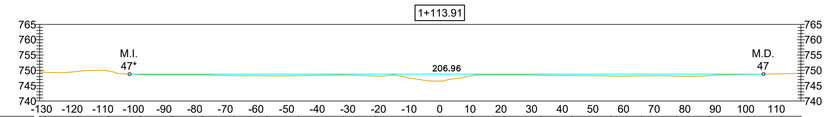


PUNTOS	DISTANCIAS PARCIALES	DISTANCIAS ACUMULADAS	COTA TN
P1		-131.65	749.40
P2	5.13	-126.52	750.30
P3	10.24	-116.29	751.26
P4	10.59	-105.70	749.50
P5	11.78	-93.92	749.00
P6	10.45	-83.46	748.93
P7	10.05	-73.41	748.78
P8	10.49	-62.92	748.73
P9	10.13	-52.79	748.59
P10	10.00	-42.79	748.62
P11	10.13	-32.65	748.74
P12	10.97	-21.68	748.50
P13	11.65	-10.03	748.00
P14	10.03	0.00	746.99
P15	10.33	10.33	748.13
P16	14.80	25.13	748.71
P17	11.60	36.73	748.78
P18	11.39	48.13	748.55
P19	10.07	58.20	748.50
P20	12.66	70.87	748.71
P21	10.46	81.32	749.00
P22	10.07	91.39	749.00
P23	10.49	101.87	748.83
P24	10.44	112.31	749.08
P25	10.18	122.49	749.50
P26	12.03	134.52	750.00
P27	10.39	144.91	749.83
P28	10.11	155.02	749.50
P29	13.34	168.35	749.61
P30	22.03	190.39	749.87

NIVEL TIRANTE: 749.10

DISTANCIAS LINEAS DE RIVERA: 101.50 | 113.11

1+113.91

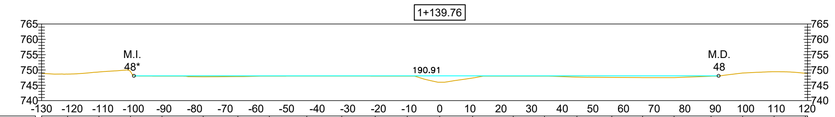


PUNTOS	DISTANCIAS PARCIALES	DISTANCIAS ACUMULADAS	COTA TN
P1		-128.75	749.63
P2	1.86	-126.89	749.34
P3	10.58	-118.17	749.68
P4	10.09	-108.08	749.76
P5	10.25	-97.83	748.59
P6	10.48	-87.35	748.50
P7	10.11	-77.24	748.50
P8	10.01	-67.23	748.28
P9	10.76	-56.47	748.21
P10	10.39	-46.08	748.27
P11	14.66	-31.41	748.45
P12	10.51	-20.90	748.14
P13	10.66	-10.24	747.50
P14	10.24	0.00	746.50
P15	10.56	10.56	748.29
P16	10.56	21.12	748.50
P17	11.89	33.00	748.40
P18	10.17	43.17	748.33
P19	12.72	55.89	748.16
P20	10.01	65.90	748.19
P21	11.46	77.36	748.12
P22	10.40	87.76	748.28
P23	13.04	100.80	748.70
P24	10.66	111.47	748.87
P25	6.45	117.91	748.96

NIVEL TIRANTE: 748.78

DISTANCIAS LINEAS DE RIVERA: 101.25 | 105.71

1+139.76

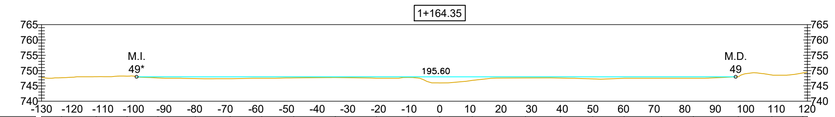


PUNTOS	DISTANCIAS PARCIALES	DISTANCIAS ACUMULADAS	COTA TN
P1		-130.00	748.91
P2	8.51	-121.49	748.66
P3	10.23	-111.27	749.35
P4	10.29	-100.97	749.50
P5	10.29	-90.68	748.00
P6	13.44	-77.24	747.79
P7	11.34	-65.90	747.87
P8	10.25	-55.65	748.00
P9	12.26	-43.39	748.01
P10	11.41	-31.98	748.02
P11	10.91	-21.07	748.00
P12	10.47	-10.61	748.00
P13	10.61	0.00	746.00
P14	10.73	10.73	747.38
P15	13.25	23.98	748.00
P16	10.21	34.19	747.99
P17	10.58	44.77	747.68
P18	11.41	56.18	747.57
P19	10.04	66.23	747.50
P20	10.26	76.49	747.50
P21	12.09	88.58	747.58
P22	10.31	98.88	749.00
P23	10.27	109.15	749.43
P24	10.21	119.36	748.88
P25	10.72	130.08	748.83

NIVEL TIRANTE: 748.07

DISTANCIAS LINEAS DE RIVERA: 99.86 | 91.05

1+164.35

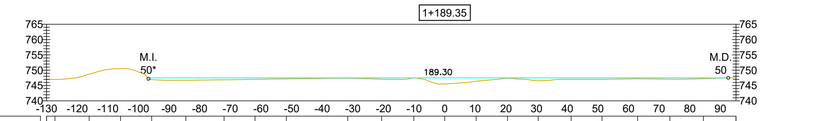


PUNTOS	DISTANCIAS PARCIALES	DISTANCIAS ACUMULADAS	COTA TN
P1		-130.00	747.72
P2	6.53	-123.47	747.66
P3	11.29	-112.17	748.00
P4	10.08	-102.09	748.18
P5	10.10	-91.99	747.60
P6	12.17	-79.82	747.38
P7	11.43	-68.39	747.35
P8	10.29	-58.10	747.50
P9	10.43	-47.68	747.62
P10	13.56	-34.11	747.75
P11	13.43	-20.69	747.50
P12	10.33	-10.36	747.77
P13	10.36	0.00	745.98
P14	10.60	10.60	746.79
P15	17.38	27.98	747.61
P16	11.50	39.48	747.56
P17	10.46	49.95	747.29
P18	10.24	60.18	747.50
P19	12.21	72.40	747.50
P20	10.39	82.78	747.50
P21	14.67	97.46	748.00
P22	10.98	108.44	748.55
P23	10.09	118.53	748.21
P24	1.47	120.00	748.24

NIVEL TIRANTE: 747.96

DISTANCIAS LINEAS DE RIVERA: 98.97 | 96.62

1+189.35



PUNTOS	DISTANCIAS PARCIALES	DISTANCIAS ACUMULADAS	COTA TN
P1		-159.01	747.00
P2	2.75	-156.26	747.00
P3	11.16	-145.10	748.68
P4	10.25	-134.85	750.51
P5	10.16	-124.69	746.92
P6	11.16	-113.53	746.69
P7	12.48	-101.05	746.86
P8	10.11	-90.94	747.00
P9	10.22	-80.72	747.17
P10	20.04	-60.68	747.38
P11	11.08	-49.60	747.04
P12	10.49	-39.11	747.50
P13	10.11	-29.00	745.51
P14	10.24	-18.76	746.39
P15	10.24	-8.52	747.40
P16	10.03	1.51	746.54
P17	10.76	12.27	747.00
P18	10.08	22.35	747.00
P19	11.62	33.97	747.22
P20	10.54	44.51	747.06
P21	10.93	55.44	747.24
P22	10.66	66.10	747.56

NIVEL TIRANTE: 747.49

DISTANCIAS LINEAS DE RIVERA: 96.75 | 92.55

REFERENCIAS

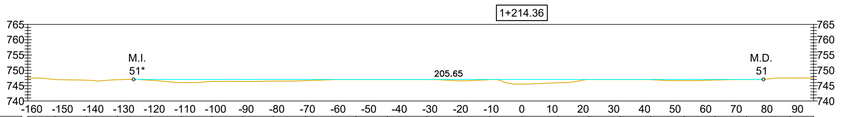
- Pelo de Agua
- Terreno Natural

Esc:1/1,000

0 10 20 40 80

OBRA: SERVICIOS PROFESIONALES PARA LA DEFINICIÓN DE LA LÍNEA DE RIBERA EN LA ZONA URBANA DE LA LOCALIDAD DE VILLA GENERAL BELGRANO (DEPARTAMENTO CALAMUCHITA)			Plano N° 0004
PLANO: ARROYO EL SAUCE SECCIONES TRANSVERSALES			Localidad: Villa General Belgrano; Dpto.: Calamuchita
Escala: 1:1000	Fecha: Agosto 2020	Ministro: Ing. Fabian Lopez	
Topografia: Consular Consultores Argentinos Asociados S.A.		Secretario de Recursos Hidricos: Ing. Edgar Castelló	
Proyecto: Ing. Ramiro M. García		Presidente APRHI: Ing. Juan Pablo Brarda	
Dibujo: Ing. Lucia Otero		VOCALES APRHI: Wierzbicky/Plencovich/Herrero/Suaya	

1+214.36

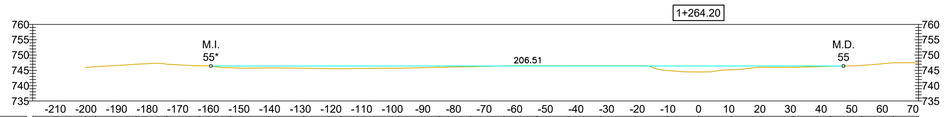


PUNTOS	DISTANCIAS PARCIALES	DISTANCIAS ACUMULADAS	COTA TN
P1		161.29	747.46
P2	8.86	152.44	747.00
P3	10.30	142.14	746.78
P4	10.12	132.02	746.94
P5	10.73	121.29	746.78
P6	10.05	111.24	746.00
P7	10.04	101.20	746.38
P8	10.05	91.16	746.38
P9	10.02	81.13	746.50
P10	10.41	70.72	746.64
P11	16.61	54.11	747.00
P12	10.21	43.91	747.00
P13	12.81	31.10	746.99
P14	10.43	20.67	746.59
P15	10.27	10.40	747.00
P16	10.40	0.00	745.50
P17	11.84	11.84	745.98
P18	10.03	21.87	747.00
P19	10.20	32.07	747.00
P20	10.01	42.08	746.97
P21	10.90	52.99	746.67
P22	10.04	63.03	746.84
P23	10.32	73.35	746.99
P24	14.16	87.51	747.50
P25	7.72	95.23	747.49

NIVEL TIRANTE: 747.05

DISTANCIAS LINEAS DE RIVERA	
	126.77
	78.88

1+264.20

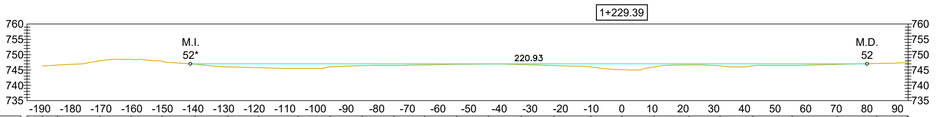


PUNTOS	DISTANCIAS PARCIALES	DISTANCIAS ACUMULADAS	COTA TN
P1		200.15	746.01
P2	3.19	196.96	746.19
P3	13.37	183.59	747.00
P4	10.01	173.59	747.00
P5	10.72	162.87	746.51
P6	10.02	152.84	745.86
P7	12.44	140.40	745.80
P8	11.50	128.90	745.71
P9	12.11	116.79	745.51
P10	18.78	98.01	745.68
P11	13.45	84.56	746.00
P12	10.17	74.39	746.20
P13	10.84	63.55	746.47
P14	10.76	52.79	746.50
P15	10.31	42.48	746.50
P16	10.53	31.95	746.49
P17	11.30	20.65	746.50
P18	10.35	10.30	744.96
P19	10.30	0.00	744.49
P20	10.63	10.63	745.20
P21	10.04	20.67	746.00
P22	10.24	30.91	746.00
P23	12.17	43.08	746.34
P24	10.20	53.29	746.64
P26	10.33	63.61	747.48
P27	8.18	71.79	747.50

NIVEL TIRANTE: 746.43

DISTANCIAS LINEAS DE RIVERA	
	159.20
	47.31

1+229.39

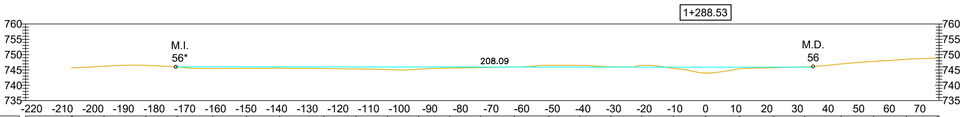


PUNTOS	DISTANCIAS PARCIALES	DISTANCIAS ACUMULADAS	COTA TN
P1		189.15	746.30
P2	4.91	184.25	746.60
P3	13.87	170.39	748.00
P4	10.15	160.23	748.42
P5	10.08	150.15	747.84
P6	10.80	139.35	746.91
P7	10.73	128.62	745.99
P8	10.09	118.53	745.73
P9	12.81	105.73	745.50
P10	10.44	95.29	746.02
P11	10.51	84.78	746.42
P12	10.34	74.44	746.50
P13	10.01	64.43	746.66
P14	10.48	53.95	746.85
P15	10.36	43.59	746.94
P16	10.71	32.88	746.76
P17	10.69	22.19	746.45
P18	12.11	10.08	746.00
P19	10.08	0.00	745.10
P20	10.52	10.52	746.00
P21	11.42	21.94	746.64
P22	10.09	32.03	746.33
P23	10.72	42.75	746.36
P24	12.81	55.56	746.51
P25	14.76	70.32	746.83
P26	12.87	83.19	747.13
P27	10.10	93.29	747.50

NIVEL TIRANTE: 747.01

DISTANCIAS LINEAS DE RIVERA	
	140.90
	80.03

1+288.53

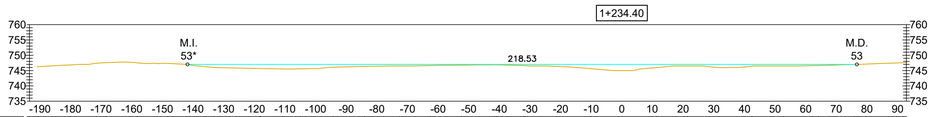


PUNTOS	DISTANCIAS PARCIALES	DISTANCIAS ACUMULADAS	COTA TN
P1		206.69	745.75
P2	10.30	196.38	746.23
P3	13.70	182.67	746.52
P4	10.14	172.54	746.00
P5	11.63	160.91	745.48
P6	11.00	149.91	745.50
P7	10.87	139.03	745.57
P8	14.42	124.62	745.49
P9	10.50	114.11	745.35
P10	10.23	103.88	745.15
P11	10.21	93.67	745.25
P12	10.19	83.48	745.61
P13	10.04	73.44	745.80
P14	10.97	62.47	745.98
P15	11.33	51.14	746.50
P16	10.11	41.03	746.50
P17	10.10	30.93	746.02
P18	10.03	20.90	746.50
P19	10.45	10.45	745.49
P20	10.45	0.00	744.00
P21	11.21	11.21	745.37
P22	11.08	22.29	745.74
P23	10.09	32.38	746.00
P24	11.86	44.24	746.97
P26	10.59	54.83	747.80
P27	10.76	65.60	748.50
P28	10.11	75.71	748.89

NIVEL TIRANTE: 745.92

DISTANCIAS LINEAS DE RIVERA	
	172.98
	35.12

1+234.40

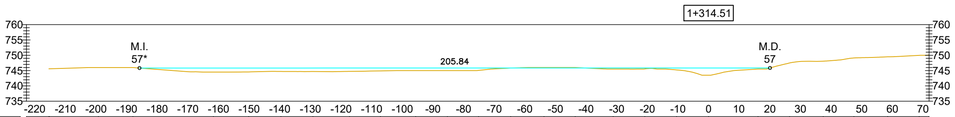


PUNTOS	DISTANCIAS PARCIALES	DISTANCIAS ACUMULADAS	COTA TN
P1		190.50	746.27
P2	10.40	180.10	746.83
P3	11.74	168.37	747.58
P4	10.11	158.26	747.54
P5	10.11	148.15	747.34
P6	14.94	133.21	746.00
P7	15.17	118.04	745.67
P8	13.08	104.96	745.58
P9	10.66	94.31	746.09
P10	10.27	84.03	746.37
P11	11.50	72.53	746.50
P12	10.05	62.48	746.65
P13	10.06	52.42	746.78
P14	10.78	41.64	746.87
P15	10.12	31.53	746.58
P16	10.08	21.45	746.36
P17	11.26	10.19	745.65
P18	10.19	0.00	745.00
P19	11.28	11.28	745.97
P20	10.12	21.40	746.50
P21	10.11	31.51	746.00
P22	11.05	42.56	746.44
P23	10.14	52.69	746.51
P24	11.46	64.15	746.66
P25	11.66	75.82	747.00
P26	13.91	89.72	747.50
P27	3.14	92.86	747.62

NIVEL TIRANTE: 747.00

DISTANCIAS LINEAS DE RIVERA	
	141.82
	76.71

1+314.51

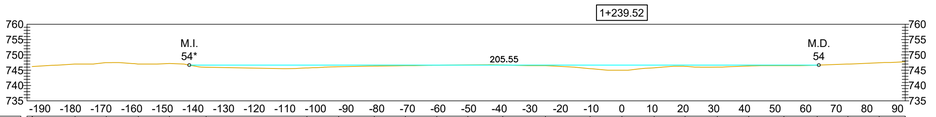


PUNTOS	DISTANCIAS PARCIALES	DISTANCIAS ACUMULADAS	COTA TN
P1		215.22	745.58
P2	16.00	199.22	746.00
P3	11.29	187.93	745.98
P4	26.24	161.69	744.50
P5	11.54	150.15	744.56
P6	10.52	139.63	744.72
P7	10.44	129.18	744.70
P8	11.95	117.23	744.74
P9	10.12	107.12	744.90
P10	11.49	95.63	744.99
P11	10.36	85.27	744.99
P12	10.18	75.09	745.06
P13	10.46	64.63	745.83
P14	10.89	53.74	746.00
P15	10.18	43.56	746.00
P16	12.40	31.16	745.50
P17	10.34	20.82	745.54
P18	10.38	10.44	745.21
P19	10.44	0.00	743.50
P20	16.13	16.13	745.50
P21	10.32	26.45	747.50
P22	10.98	37.43	748.07
P23	10.01	47.44	749.12
P24	11.05	58.49	749.49
P25	10.25	68.74	749.97
P26	3.24	71.98	750.00

NIVEL TIRANTE: 745.85

DISTANCIAS LINEAS DE RIVERA	
	185.80
	20.04

1+239.52

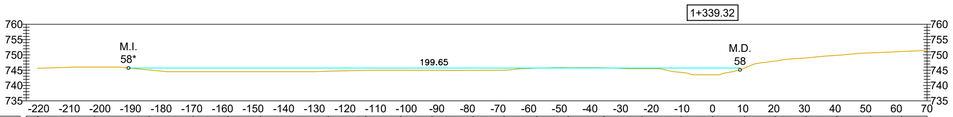


PUNTOS	DISTANCIAS PARCIALES	DISTANCIAS ACUMULADAS	COTA TN
P1		192.45	746.20
P2	13.92	178.53	746.99
P3	10.21	168.33	747.47
P4	10.46	157.87	747.00
P5	10.14	147.73	747.20
P6	12.00	135.73	745.97
P7	32.90	102.83	745.74
P8	10.36	92.47	746.13
P9	11.64	80.83	746.34
P10	10.14	70.68	746.49
P11	10.27	60.42	746.62
P12	10.13	50.29	746.72
P13	11.39	38.89	748.71
P14	13.92	24.97	746.50
P15	14.57	10.40	745.50
P16	10.40	0.00	745.00
P17	10.55	10.55	745.78
P18	10.07	20.62	746.25
P19	10.54	31.15	746.00
P20	10.26	41.41	746.37
P21	11.49	52.90	746.50
P22	10.85	63.75	746.65
P23	10.04	73.79	747.00
P24	10.20	83.99	747.42
P25	8.50	92.49	747.75

NIVEL TIRANTE: 746.67

DISTANCIAS LINEAS DE RIVERA	
	141.23
	64.31

1+339.32



PUNTOS	DISTANCIAS PARCIALES	DISTANCIAS ACUMULADAS	COTA TN
P1		220.28	745.63
P2	0.10	220.18	746.00
P3	18.50	201.78	745.07
P4	17.83	183.95	744.50
P5	14.35	169.60	744.50
P6	11.38	158.22	744.50
P7	10.56	147.66	744.67
P8	22.20	125.46	744.94
P9	12.26	113.20	744.99
P10	11.36	101.84	744.96
P11	10.25	91.59	744.94
P12	13.42	78.17	745.00
P13	10.11	68.07	745.67
P14	10.68	57.39	745.82
P15	10.25	47.14	745.77
P16	11.66	35.48	745.51
P17	12.44	23.04	744.28
P18	12.80	10.24	743.50
P19	10.24	0.00	745.71
P20	10.42	10.42	747.99
P21	10.06	20.47	749.00
P22	10.04	30.51	749.86
P23	10.06	40.57	750.65
P24	11.07	51.64	751.10
P25	10.06	61.70	751.47
P26	8.32	70.02	751.47

NIVEL TIRANTE: 745.70

DISTANCIAS LINEAS DE RIVERA	
	190.69
	8.97

REFERENCIAS

- Pelo de Agua
- Terreno Natural

Esc:1/1,000

0 10 20 40 80

OBRA: SERVICIOS PROFESIONALES PARA LA DEFINICIÓN DE LA LÍNEA DE RIBERA EN LA ZONA URBANA DE LA LOCALIDAD DE VILLA GENERAL BELGRANO (DEPARTAMENTO CALAMUCHITA)

Plano N° 0005

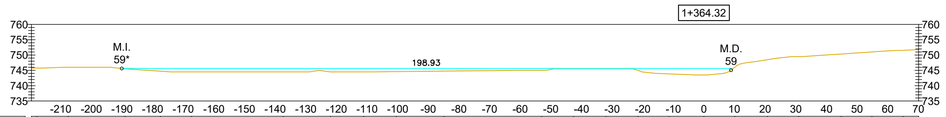
Localidad: Villa General Belgrano

Dpto.: Calamuchita

PLANO: ARROYO EL SAUCE
SECCIONES TRANSVERSALES

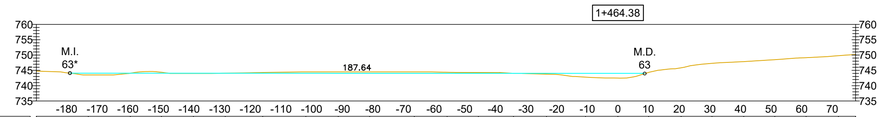
Escala: 1:1000	Fecha: Agosto 2020	Ministro: Ing. Fabian Lopez
Topografia: Consular Consultores Argentinos Asociados S.A.		Secretario de Recursos Hidricos: Ing. Edgar Castelló
Proyecto: Ing. Ramiro M. García		Presidente APRHI: Ing. Juan Pablo Brarda
Dibujo: Ing. Lucia Otero		VOCALES APRHI: Wierzbicky/Plencovich/Herrero/Suaya

1+364.32



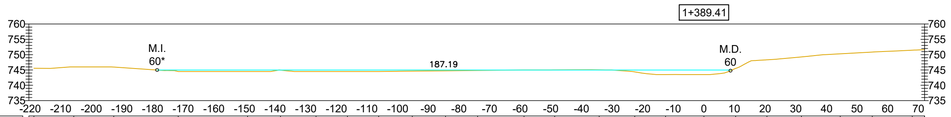
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24
DISTANCIAS PARCIALES	17	10.19	18.62	11.51	10.18	29.92	15.41	10.87	10.66	15.53	31.93	10.37	10.62	10.44	10.14	11.40	10.05	10.68	10.20	13.86	10.06	10.13	5.11	
DISTANCIAS ACUMULADAS	-219.67	-217.76	-207.59	-188.97	-177.46	-167.28	-137.36	-121.95	-111.08	-100.42	-84.89	-52.97	-42.60	-31.98	-21.54	-11.40	0.00	10.05	20.73	30.93	44.79	54.85	64.98	76.09
COTA TN	746.52	745.74	746.00	745.49	744.74	744.50	744.50	744.50	744.50	744.59	744.75	745.00	745.50	745.50	745.00	743.85	743.50	746.00	748.48	749.50	750.31	751.00	751.51	751.74
NIVEL TIRANTE	745.60																							
DISTANCIAS LINEAS DE RIVERA	190.07																8.87							

1+464.38



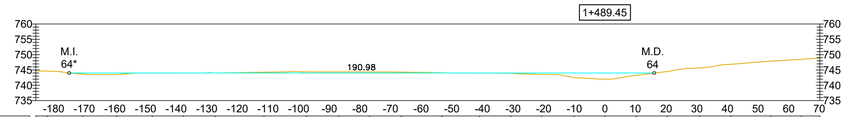
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24	P25
DISTANCIAS PARCIALES		16.98	13.71	10.16	10.43	10.40	12.21	14.11	10.56	10.26	14.57	10.71	10.19	11.49	10.79	12.72	10.59	10.02	10.61	10.07	10.38	10.13	10.20	10.58	5.62
DISTANCIAS ACUMULADAS	-180.69		-172.91	-159.19	-149.04	-138.60	-128.20	-115.99	-101.88	-91.31	-81.05	-66.49	-55.78	-45.59	-34.10	-23.31	-10.59	0.00	10.02	20.63	30.71	41.08	51.21	61.41	71.98	77.61
COTA TN	744.75		743.50	744.06	744.38	744.00	744.07	744.28	744.50	744.51	744.51	744.50	744.37	744.29	744.02	743.77	742.78	742.48	744.32	745.83	747.29	747.85	748.49	749.14	749.79	750.17
NIVEL TIRANTE	744.03																									
DISTANCIAS LINEAS DE RIVERA	178.91																	8.74								

1+389.41



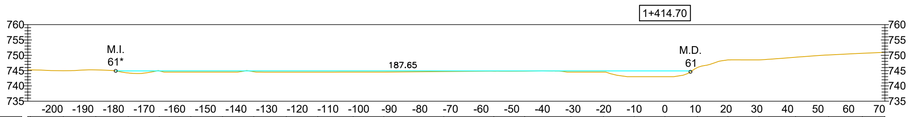
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24	P25
DISTANCIAS PARCIALES		13.04	13.03	21.05	22.64	10.75	11.61	10.24	10.19	10.97	10.86	10.47	15.15	10.05	14.49	11.63	10.06	12.53	10.34	10.23	11.27	12.65	10.45	13.06	4.06
DISTANCIAS ACUMULADAS	-218.76		-205.71	-192.68	-171.64	-148.99	-138.25	-126.64	-116.39	-106.21	-95.23	-84.38	-73.90	-58.75	-48.70	-34.22	-22.59	-12.53	0.00	10.34	20.56	31.83	44.49	54.93	68.00	72.05
COTA TN	745.55		746.00	745.95	744.50	744.50	744.95	744.50	744.50	744.50	744.62	744.73	744.85	745.00	745.02	745.05	744.37	743.50	743.50	745.50	748.32	749.25	750.27	750.85	751.46	751.63
NIVEL TIRANTE	744.98																									
DISTANCIAS LINEAS DE RIVERA	178.52																	8.66								

1+489.45



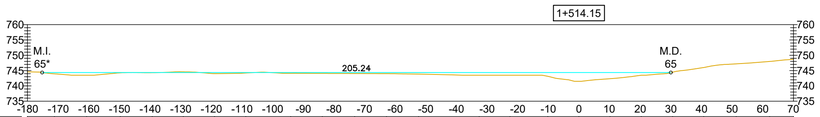
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24	P25
DISTANCIAS PARCIALES		3.70	11.72	10.94	11.67	10.09	10.44	15.91	13.91	10.49	10.11	10.27	13.37	12.23	10.25	10.01	10.67	10.03	10.19	10.16	10.54	10.23	12.99	10.06	5.98
DISTANCIAS ACUMULADAS	-185.82		-182.12	-170.40	-159.46	-147.79	-137.70	-127.26	-111.34	-97.43	-86.94	-76.84	-66.57	-53.19	-40.96	-30.71	-20.70	-10.03	0.00	10.19	20.35	30.89	41.12	54.11	64.17	70.15
COTA TN	744.70		744.62	743.67	743.51	743.99	744.00	744.00	744.26	744.38	744.36	744.35	744.29	744.08	743.96	743.90	743.53	742.50	742.00	743.25	744.49	745.67	746.84	747.89	748.48	748.92
NIVEL TIRANTE	744.00																									
DISTANCIAS LINEAS DE RIVERA	174.90																	16.08								

1+414.70



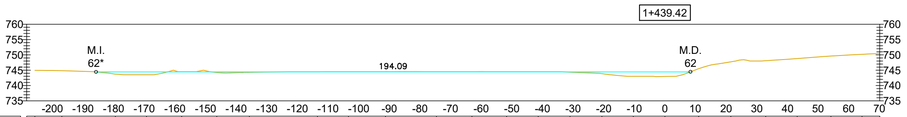
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24	P25	P26
DISTANCIAS PARCIALES		10.78	10.59	10.59	10.14	10.31	10.33	10.21	10.62	10.28	11.55	10.02	19.57	16.33	10.08	15.10	10.63	10.03	10.04	10.57	10.00	10.10	11.94	10.82	11.02	7.35
DISTANCIAS ACUMULADAS	-207.21		-196.42	-185.84	-175.24	-165.10	-154.79	-144.45	-134.25	-123.63	-113.35	-101.80	-91.78	-72.20	-55.87	-45.79	-30.69	-20.06	-10.04	0.00	10.57	20.58	30.68	42.61	53.43	64.45	71.80
COTA TN	745.23		744.95	745.23	744.23	744.92	744.50	744.50	744.64	744.49	744.50	744.50	744.51	744.71	744.81	744.84	744.50	744.50	743.00	743.00	746.00	748.48	748.50	749.36	750.10	750.64	750.97
NIVEL TIRANTE	744.90																									
DISTANCIAS LINEAS DE RIVERA	179.31																		8.34							

1+514.15



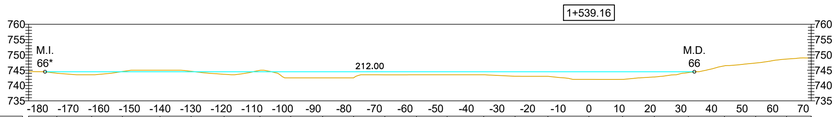
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24
DISTANCIAS PARCIALES		8.80	10.53	10.99	10.44	10.12	10.20	10.21	14.64	10.32	10.57	10.40	10.47	19.79	10.05	12.33	10.18	10.14	10.21	10.23	10.16	10.60	10.92	7.77
DISTANCIAS ACUMULADAS	-189.06		-171.26	-160.73	-149.74	-139.30	-128.18	-118.98	-108.76	-94.12	-83.79	-73.22	-62.82	-52.35	-32.56	-22.51	-10.18	0.00	10.14	20.34	30.57	40.73	51.33	62.25	76.02
COTA TN	744.69		743.95	743.50	744.27	744.32	744.59	744.01	744.21	744.12	744.08	744.05	744.00	743.84	743.50	743.50	743.13	741.50	742.36	743.50	744.50	746.00	747.20	747.99	748.69
NIVEL TIRANTE	744.36																								
DISTANCIAS LINEAS DE RIVERA	175.25																	29.99							

1+439.42



PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24	P25
DISTANCIAS PARCIALES		8.79	17.47	10.19	11.45	11.48	10.63	22.22	10.13	12.07	16.66	11.61	11.29	10.32	10.40	10.40	10.26	10.33	11.02	10.49	11.39	10.27	11.01	10.15	5.78
DISTANCIAS ACUMULADAS	-205.69		-196.91	-179.44	-169.24	-157.79	-146.31	-135.68	-113.45	-103.32	-91.25	-74.60	-62.99	-51.71	-41.39	-30.99	-20.59	-10.33	0.00	11.02	21.51	32.90	43.18	54.19	64.34	70.12
COTA TN	744.94		744.84	743.72	743.50	744.50	744.24	744.30	744.49	744.50	744.51	744.51	744.50	744.50	744.50	744.34	743.87	743.00	742.96	745.50	747.73	748.10	748.81	749.62	750.18	750.47
NIVEL TIRANTE	744.44																									
DISTANCIAS LINEAS DE RIVERA	185.75																		8.34							

1+539.16



PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24	P25
DISTANCIAS PARCIALES		9.19	11.40	10.02	12.27	10.16	10.77	11.70	10.06	10.41	10.09	10.21	10.33	10.01	11.93	10.24	10.74	13.38	10.98	10.37	11.08	11.82	10.17	10.09	8.03
DISTANCIAS ACUMULADAS	-182.92		-173.73	-162.33	-152.31	-140.04	-129.88	-119.11	-107.41	-97.34	-86.93	-76.84	-66.64	-56.31	-46.30	-34.37	-24.12	-13.38	0.00	10.98	21.35	32.43	44.25	54.42	64.52	72.55
COTA TN	744.58		744.00	743.50	744.57	745.00	744.65	743.66	744.96	742.50	742.50	742.50	743.50	743.50	743.51	743.50	743.03	743.00	742.00	742.00	742.78	744.23	746.43	747.33	748.62	748.99
NIVEL TIRANTE	744.48																									
DISTANCIAS LINEAS DE RIVERA	177.58																		34.42							

REFERENCIAS

- Pelo de Agua
- Terreno Natural

Esc:1/1,000

0 10 20 40 80

APRHI Administración Provincial de Recursos Hídricos | Ministerio de SERVICIOS PÚBLICOS | GOBIERNO DE LA PROVINCIA DE CÓRDOBA | ENTRE TODOS

OBRA: SERVICIOS PROFESIONALES PARA LA DEFINICIÓN DE LA LÍNEA DE RIBERA EN LA ZONA URBANA DE LA LOCALIDAD DE VILLA GENERAL BELGRANO (DEPARTAMENTO CALAMUCHITA)

Plano N° 0006

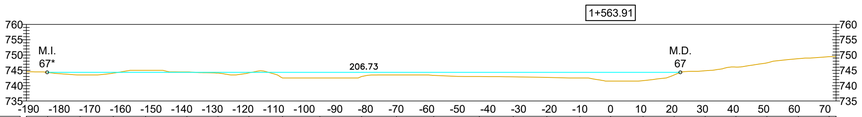
Localidad: Villa General Belgrano

Dpto.: Calamuchita

PLANO: ARROYO EL SAUCE
SECCIONES TRANSVERSALES

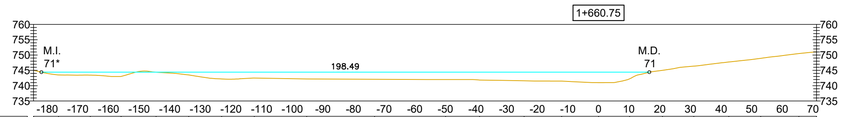
Escala: 1:1000	Fecha: Agosto 2020	Ministro: Ing. Fabian Lopez
Topografía: Consular Consultores Argentinos Asociados S.A.		Secretario de Recursos Hídricos: Ing. Edgar Castelló
Proyecto: Ing. Ramiro M. García		Presidente APRHI: Ing. Juan Pablo Brarda
Dibujo: Ing. Lucia Otero		VOCALES APRHI: Wierzbicky/Plencovich/Herrero/Suaya

1+563.91



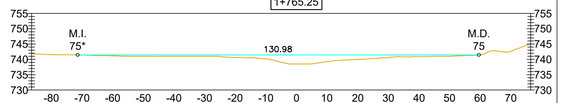
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24	P25	P26
DISTANCIAS PARCIALES		6.94	10.60	10.83	10.56	13.48	10.16	10.09	10.95	12.20	13.65	11.37	12.17	14.88	11.07	10.99	10.79	10.01	10.59	10.16	10.12	10.05	10.12	10.25	10.04	2.26
DISTANCIAS ACUMULADAS	196.74	189.80	179.20	168.37	157.81	144.33	134.17	124.08	113.99	103.04	90.84	77.19	65.02	52.85	37.97	26.90	15.91	5.90	0.00	10.59	20.75	30.87	40.92	51.04	61.29	71.34
COTA TN	744.57	744.33	743.50	744.09	745.00	744.49	744.11	744.18	742.50	742.50	743.00	743.50	743.35	743.00	742.88	742.70	742.50	741.50	741.64	743.50	744.88	746.07	747.44	748.81	749.48	749.92
NIVEL TIRANTE	744.35																									
DISTANCIAS LINEAS DE RIVERA	183.95																	22.79								

1+660.75



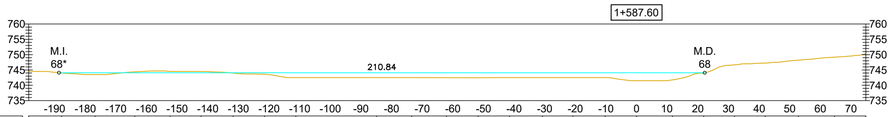
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22
DISTANCIAS PARCIALES		8.16	10.37	10.04	11.43	10.68	10.75	10.62	17.14	22.14	23.17	11.10	14.54	12.28	12.03	10.15	10.74	10.22	11.43	10.41	12.46	5.75
DISTANCIAS ACUMULADAS	184.46	176.30	165.93	155.89	144.46	133.78	123.03	112.41	95.26	73.12	49.95	38.85	24.31	12.03	0.00	10.15	20.89	31.11	42.54	52.94	65.41	71.16
COTA TN	745.62	743.50	743.44	743.02	744.42	743.50	742.19	742.50	742.19	742.09	742.00	741.84	741.60	741.50	741.00	742.23	745.00	746.38	747.73	748.92	750.50	751.60
NIVEL TIRANTE	744.41																					
DISTANCIAS LINEAS DE RIVERA	181.90																	16.59				

1+765.25



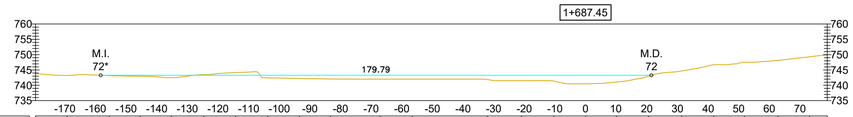
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17
DISTANCIAS PARCIALES		2.81	10.74	11.48	10.13	10.35	10.21	10.48	10.14	10.09	10.96	10.28	10.05	13.65	11.50	10.32	9.73
DISTANCIAS ACUMULADAS	86.44	83.63	72.88	61.40	51.27	40.92	30.71	20.23	10.09	0.00	10.96	21.24	31.29	44.94	56.43	66.75	76.48
COTA TN	741.92	741.71	741.50	741.23	741.00	741.00	741.00	740.62	740.15	738.49	739.38	740.03	740.73	740.95	741.27	742.55	745.12
NIVEL TIRANTE	741.44																
DISTANCIAS LINEAS DE RIVERA	71.42													59.57			

1+587.60



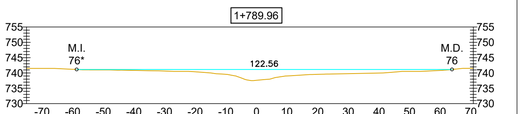
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24	P25
DISTANCIAS PARCIALES		10.76	10.90	12.97	11.54	10.07	10.46	10.31	10.17	26.40	11.45	11.36	10.33	10.27	10.66	10.02	10.49	10.28	11.71	10.18	10.04	10.06	10.85	11.77	10.26
DISTANCIAS ACUMULADAS	198.45	187.69	176.79	163.82	152.28	142.21	131.75	121.45	111.27	84.88	73.42	62.06	51.73	41.46	30.80	20.77	10.28	0.00	11.71	21.89	31.93	41.98	52.83	64.60	74.86
COTA TN	744.55	744.00	743.50	744.39	744.53	744.50	743.99	743.61	742.50	742.50	742.50	742.49	742.47	742.50	742.50	742.50	742.50	741.50	741.77	744.02	748.68	747.26	748.20	749.20	750.36
NIVEL TIRANTE	744.09																								
DISTANCIAS LINEAS DE RIVERA	188.58																	22.25							

1+687.45



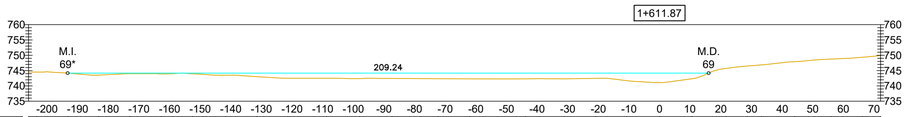
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24
DISTANCIAS PARCIALES		10.30	13.79	10.07	10.16	10.64	10.37	10.50	10.36	10.12	16.19	10.48	24.54	11.15	10.55	10.36	10.16	10.45	10.78	10.47	10.05	10.91	10.31	5.77
DISTANCIAS ACUMULADAS	179.57	169.27	155.49	145.42	135.27	124.62	114.25	103.75	93.40	83.27	67.08	56.60	32.06	20.92	10.36	0.00	10.16	20.61	31.39	41.86	51.91	62.82	73.13	78.90
COTA TN	743.73	743.19	743.15	742.99	742.50	743.49	744.13	742.41	742.22	742.05	742.00	742.00	741.88	741.50	741.38	740.50	741.06	743.00	744.68	746.69	747.51	748.16	749.30	749.95
NIVEL TIRANTE	743.27																							
DISTANCIAS LINEAS DE RIVERA	158.29																	21.51						

1+789.96



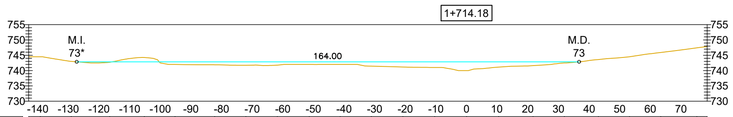
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14
DISTANCIAS PARCIALES		9.16	12.17	11.14	10.56	10.38	10.49	11.15	11.28	10.57	19.32	10.39	10.00	9.23
DISTANCIAS ACUMULADAS	75.05	65.89	53.72	42.58	32.02	21.64	11.15	0.00	11.28	21.85	41.17	51.56	61.56	70.80
COTA TN	741.49	741.48	741.01	740.90	740.70	740.48	739.64	737.60	739.10	739.60	740.00	740.51	740.93	741.52
NIVEL TIRANTE	741.15													
DISTANCIAS LINEAS DE RIVERA	58.69										63.87			

1+611.87



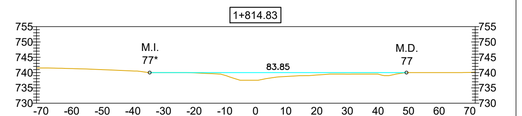
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24	P25	P26	P27
DISTANCIAS PARCIALES		2.71	10.14	10.01	10.21	10.17	10.37	10.71	10.35	10.01	12.60	10.81	10.61	15.00	10.37	18.18	12.59	10.31	10.26	10.62	10.58	11.23	11.44	10.87	11.92	10.13	5.98
DISTANCIAS ACUMULADAS	209.00	206.29	193.18	183.17	172.96	162.79	152.42	141.71	131.36	121.35	108.75	97.94	87.33	72.33	61.96	43.78	31.19	20.88	10.62	0.00	10.58	21.81	33.25	44.12	56.04	66.17	72.15
COTA TN	744.53	744.51	744.17	743.51	744.00	743.92	743.94	743.49	743.00	742.50	742.50	742.37	742.43	742.35	742.30	742.32	742.31	742.47	741.70	741.05	742.33	745.70	746.85	747.91	748.76	749.35	749.92
NIVEL TIRANTE	744.18																										
DISTANCIAS LINEAS DE RIVERA	193.24																			16.00							

1+714.18



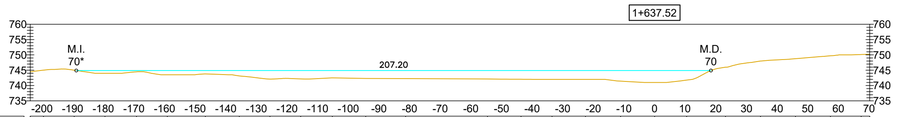
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23
DISTANCIAS PARCIALES		3.78	10.10	12.54	11.34	10.01	12.94	10.19	10.26	10.43	10.07	10.18	10.30	10.38	10.41	10.49	11.21	10.23	11.11	10.16	10.20	11.79	3.37
DISTANCIAS ACUMULADAS	142.94	139.16	129.06	116.52	105.18	95.17	82.23	72.04	61.78	51.34	41.27	31.09	20.79	10.41	0.00	10.49	21.71	31.93	43.04	53.20	63.40	75.19	78.56
COTA TN	744.53	744.50	743.00	742.71	744.27	742.00	741.89	741.74	741.78	742.00	742.00	741.45	741.17	741.01	740.00	741.14	741.62	742.49	743.60	744.50	745.90	747.42	747.83
NIVEL TIRANTE	742.86																						
DISTANCIAS LINEAS DE RIVERA	127.25																	36.74					

1+814.83



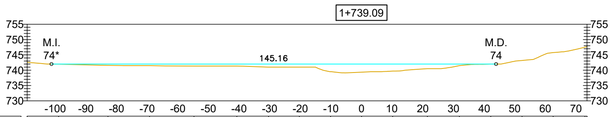
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES		3.31	10.03	10.08	13.84	12.81	10.01	11.41	12.63	10.70	10.69	11.56	10.06	10.05	6.07
DISTANCIAS ACUMULADAS	71.48	68.18	58.15	48.07	34.23	21.42	11.41	0.00	12.63	23.33	34.02	45.58	55.64	65.69	71.75
COTA TN	741.59	741.50	741.25	740.88	740.00	739.88	739.50	737.50	738.88	739.43	739.50	739.43	740.00	740.00	740.15
NIVEL TIRANTE	740.00														
DISTANCIAS LINEAS DE RIVERA	34.53										49.32				

1+637.52



PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24	P25	P26
DISTANCIAS PARCIALES		4.33	10.02	10.06	10.29	10.04	12.43	11.08	10.02	10.02	10.35	10.90	13.00	26.74	10.95	10.13	10.90	11.49	11.10	10.47	12.66	11.44	11.43	11.40	10.04	2.78
DISTANCIAS ACUMULADAS	203.85	199.52	189.50	179.44	169.15	159.11	146.68	135.59	125.57	115.55	105.20	94.30	81.30	54.56	43.61	33.48	22.59	11.10	0.00	10.47	23.13	34.57	46.00	57.40	67.44	70.23
COTA TN	744.51	745.01	745.00	743.99	744.47	743.50	743.78	743.13	742.10	742.15	742.50	742.31	742.26	742.12	742.04	742.00	742.00	741.43	741.00	741.77	745.98	748.00	748.76	749.71	750.11	750.22
NIVEL TIRANTE	744.89																									
DISTANCIAS LINEAS DE RIVERA	188.80																			18.40						

1+739.09



PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17
DISTANCIAS PARCIALES		10.27	16.11	13.59	14.50	13.98	10.36	10.06	10.19	10.11	10.16	11.32	10.47	10.24	10.20	10.15	10.40	0.66
DISTANCIAS ACUMULADAS	109.17	98.91	82.79	69.20	54.70	40.72	30.37	20.30	10.11	0.00	10.16	21.48	31.95	42.20	52.40	62.55	72.95	73.61
COTA TN	742.60	741.98	741.58	741.50	741.34	741.34	741.00	741.00	739.50	739.36	739.70	740.50	741.50	741.99	743.17	745.74	747.60	747.88
NIVEL TIRANTE	741.99																	
DISTANCIAS LINEAS DE RIVERA	101.23											43.93						

REFERENCIAS

- Pelo de Agua
- Terreno Natural

Esc:1/1,000

0 10 20 40 80

APRHI Administración Provincial de Recursos Hídricos | Ministerio de SERVICIOS PÚBLICOS | GOBIERNO DE LA PROVINCIA DE CÓRDOBA | ENTRE TODOS

OBRA: SERVICIOS PROFESIONALES PARA LA DEFINICIÓN DE LA LÍNEA DE RIBERA EN LA ZONA URBANA DE LA LOCALIDAD DE VILLA GENERAL BELGRANO (DEPARTAMENTO CALAMUCHITA)

Plano N° 0007

Localidad: Villa General Belgrano

Dpto.: Calamuchita

PLANO: ARROYO EL SAUCE
SECCIONES TRANSVERSALES

Escala: 1:1000	Fecha: Agosto 2020	Ministro: Ing. Fabian Lopez
Topografía: Consular Consultores Argentinos Asociados S.A.		Secretario de Recursos Hídricos: Ing. Edgar Castelló
Proyecto: Ing. Ramiro M. García		Presidente APRHI: Ing. Juan Pablo Brarda
Dibujo: Ing. Lucia Otero		VOCALES APRHI: Wierzbicky/Plencovich/Herrero/Suaya

1+839.83

PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17
DISTANCIAS PARCIALES	5.63	10.43	11.23	10.67	10.31	11.97	10.20	11.42	10.54	11.26	10.47	10.96	14.14	10.03	11.53	6.50	
DISTANCIAS ACUMULADAS	70.43	64.81	54.38	43.15	32.48	22.17	10.20	0.00	11.42	21.96	33.21	43.68	54.64	68.77	78.80	90.34	96.83
COTA TN	741.50	741.34	741.06	740.69	740.50	740.43	739.50	737.00	738.68	738.95	738.50	738.63	739.62	739.71	739.76	740.00	740.61
NIVEL TIRANTE	739.87																
DISTANCIAS LINEAS DE RIVERA	13.00							85.28									

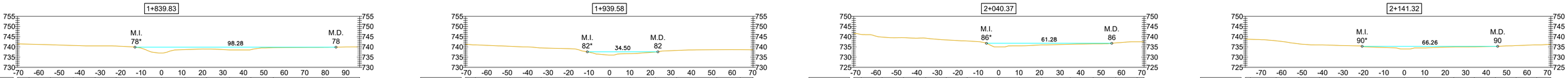
1+939.58

PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13
DISTANCIAS PARCIALES	4.83	16.89	15.27	11.56	11.55	10.31	10.06	12.36	10.41	19.58	11.50	6.28	
DISTANCIAS ACUMULADAS	70.40	65.57	48.68	33.41	21.86	10.31	0.00	10.06	22.42	32.83	52.41	63.91	70.19
COTA TN	741.93	740.99	740.31	739.49	739.21	737.50	736.00	736.68	737.49	738.28	738.60	738.63	738.68
NIVEL TIRANTE	737.59												
DISTANCIAS LINEAS DE RIVERA	10.82		23.68										

2+040.37

PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES	3.71	10.15	10.47	10.82	10.08	10.18	15.44	10.02	10.96	13.98	11.22	11.02	10.44	3.39	
DISTANCIAS ACUMULADAS	70.86	67.15	57.00	46.53	35.71	25.62	15.44	0.00	10.02	20.99	34.97	46.19	57.21	67.65	71.04
COTA TN	741.59	741.11	739.78	739.52	739.29	738.41	737.91	735.00	735.51	736.00	736.30	736.50	736.98	737.50	737.50
NIVEL TIRANTE	736.76														
DISTANCIAS LINEAS DE RIVERA	5.98							55.30							

2+141.32



PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES	2.45	12.61	11.05	10.24	10.17	12.13	19.04	10.11	14.05	10.07	10.28	10.12	10.08	6.86	
DISTANCIAS ACUMULADAS	77.71	75.25	62.64	51.59	41.35	31.17	19.04	0.00	10.11	24.17	34.24	44.52	54.64	64.72	71.59
COTA TN	738.81	738.72	738.00	736.49	735.97	735.66	735.00	734.00	734.50	734.97	735.00	735.22	735.64	736.00	736.29
NIVEL TIRANTE	735.28														
DISTANCIAS LINEAS DE RIVERA	20.60							45.65							

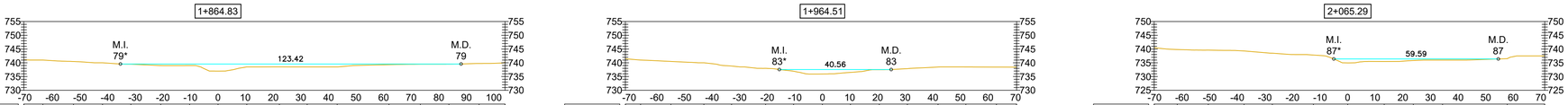
1+864.83

PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17
DISTANCIAS PARCIALES	6.90	11.08	10.51	10.27	10.83	10.46	10.29	10.42	11.81	10.08	10.88	18.74	11.37	10.34	10.92	9.39	
DISTANCIAS ACUMULADAS	70.34	63.44	52.36	41.85	31.58	20.75	10.29	0.00	10.42	22.23	32.31	43.19	61.93	73.31	83.65	94.57	103.97
COTA TN	744.11	740.99	740.47	740.00	739.50	739.00	739.01	736.98	738.50	738.51	738.50	738.50	739.33	739.50	739.52	739.76	740.18
NIVEL TIRANTE	739.56																
DISTANCIAS LINEAS DE RIVERA	35.35							88.07									

1+964.51

PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES	5.53	10.99	11.92	10.05	12.31	10.16	10.45	10.15	10.43	10.19	11.10	10.08	11.07	7.32	
DISTANCIAS ACUMULADAS	71.41	65.88	54.88	42.96	32.92	20.61	10.45	0.00	10.15	20.58	30.76	41.87	51.95	63.03	70.35
COTA TN	741.47	741.00	740.50	740.00	738.82	737.98	736.93	735.91	736.50	737.48	737.87	738.45	738.49	738.43	738.42
NIVEL TIRANTE	737.54														
DISTANCIAS LINEAS DE RIVERA	15.63		24.94												

2+065.29



PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12
DISTANCIAS PARCIALES	8.37	11.24	12.97	10.24	14.87	12.42	13.23	10.54	10.60	23.45	13.57	
DISTANCIAS ACUMULADAS	70.11	61.74	50.50	37.54	27.29	12.42	0.00	13.23	23.77	34.36	57.81	71.39
COTA TN	740.50	739.83	739.62	739.30	738.50	737.81	734.96	735.47	735.83	736.00	738.50	737.50
NIVEL TIRANTE	736.39											
DISTANCIAS LINEAS DE RIVERA	5.02		54.57									

2+166.07

PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13
DISTANCIAS PARCIALES	9.30	12.60	24.86	11.20	12.73	13.04	10.30	10.78	10.02	10.19	10.74	5.47	
DISTANCIAS ACUMULADAS	70.69	61.39	48.79	23.93	12.73	0.00	13.04	23.34	34.12	44.14	54.32	65.06	70.53
COTA TN	736.66	735.96	735.49	735.00	734.38	733.69	734.30	734.49	734.50	735.43	735.81	736.36	736.74
NIVEL TIRANTE	735.07												
DISTANCIAS LINEAS DE RIVERA	29.91							42.39					

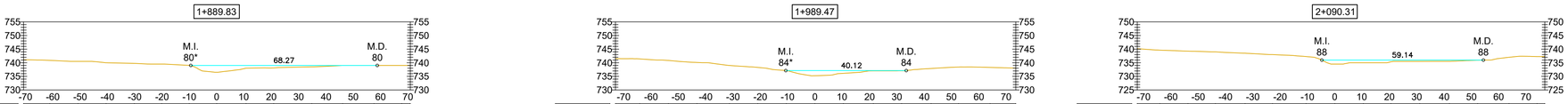
1+889.83

PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES	9.58	10.36	10.25	10.35	10.02	10.09	10.03	10.76	10.09	13.97	11.30	11.47	10.14	3.14	
DISTANCIAS ACUMULADAS	76.83	67.25	56.89	46.64	36.29	26.27	16.18	6.15	0.00	10.09	24.06	35.36	46.83	57.97	61.11
COTA TN	744.11	740.87	740.50	740.00	739.77	739.50	739.02	736.50	738.00	738.10	738.50	739.00	739.00	739.03	739.06
NIVEL TIRANTE	739.00														
DISTANCIAS LINEAS DE RIVERA	9.49							58.78							

1+989.47

PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES	8.90	10.48	10.44	11.90	10.37	10.44	10.48	10.40	10.98	10.35	10.79	10.01	11.58	9.42	
DISTANCIAS ACUMULADAS	79.01	64.12	53.63	43.19	31.29	20.92	10.48	0.00	10.40	21.39	31.74	42.53	52.54	64.12	73.54
COTA TN	741.50	741.41	740.84	740.11	739.00	738.29	737.10	735.24	736.11	737.00	737.05	737.88	738.41	738.28	738.05
NIVEL TIRANTE	737.12														
DISTANCIAS LINEAS DE RIVERA	10.65		33.46												

2+090.31



PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16
DISTANCIAS PARCIALES	8.28	10.28	10.04	10.86	10.04	12.29	10.52	10.44	10.12	10.52	10.89	10.32	11.48	10.26	2.84	
DISTANCIAS ACUMULADAS	72.90	64.63	53.75	43.71	32.84	22.81	10.52	0.00	10.44	20.57	31.09	41.98	52.30	63.78	74.04	76.88
COTA TN	740.15	739.61	739.25	739.00	738.50	737.99	737.28	734.50	735.00	735.33	735.51	735.52	735.92	737.00	737.25	737.25
NIVEL TIRANTE	735.97															
DISTANCIAS LINEAS DE RIVERA	4.73							54.41								

2+191.15

PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14
DISTANCIAS PARCIALES	6.50	10.26	11.88	18.22	10.56	12.77	10.75	13.85	12.57	10.38	10.04	10.74	1.87	
DISTANCIAS ACUMULADAS	79.20	73.70	63.44	41.56	23.34	12.77	0.00	10.75	24.60	37.17	47.55	57.60	68.33	70.20
COTA TN	736.50	736.00	735.14	734.92	734.48	734.19	733.48	734.00	734.19	734.47	735.50	736.00	736.54	736.54
NIVEL TIRANTE	734.89													
DISTANCIAS LINEAS DE RIVERA	40.61							40.22						

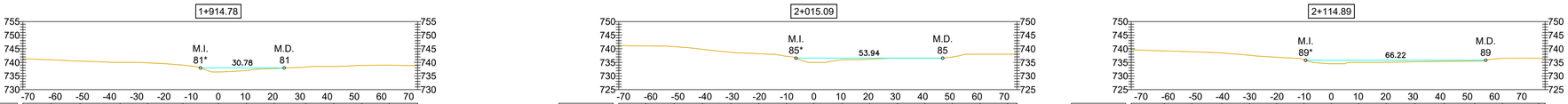
1+914.78

PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14
DISTANCIAS PARCIALES	10.52	10.51	14.70	10.16	12.88	13.08	10.34	10.22	11.58	10.31	10.28	10.09	10.44	
DISTANCIAS ACUMULADAS	71.66	61.35	50.83	36.13	25.96	13.08	0.00	10.34	20.56	32.14	42.45	52.73	62.82	73.26
COTA TN	741.91	740.98	740.50	740.00	739.84	739.00	736.49	737.00	737.74	738.30	738.50	738.89	738.98	738.84
NIVEL TIRANTE	737.98													
DISTANCIAS LINEAS DE RIVERA	6.58		24.20											

2+015.09

PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16
DISTANCIAS PARCIALES	9.93	10.41	10.44	10.45	10.31	10.15	10.08	10.29	10.22	10.26	10.03	10.17	10.15	10.12	3.45	
DISTANCIAS ACUMULADAS	71.77	61.84	51.43	40.98	30.54	20.22	10.08	0.00	10.29	20.51	30.77	40.90	50.96	61.12	71.23	74.68
COTA TN	741.68	741.03	740.79	739.79	738.72	738.18	737.26	735.00	736.00	736.17	736.50	736.50	737.00	738.00	738.00	738.00
NIVEL TIRANTE	736.55															
DISTANCIAS LINEAS DE RIVERA	6.59		47.35													

2+114.89



PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16
DISTANCIAS PARCIALES	12.11	10.23	11.02	10.15	10.04	10.00	10.05	10.01	10.16	10.62	10.75	11.13	10.25	13.30	2.36	
DISTANCIAS ACUMULADAS	79.61	67.50	57.27	46.25	36.09	26.05	16.05	6.00	10.01	20.17	30.79	41.54	52.67	62.92	76.22	78.58
COTA TN	739.67	739.21	738.90	738.50	737.62	736.89	736.00	734.50	735.00	735.03	735.24	735.37	735.49	736.48	736.51	736.54
NIVEL TIRANTE	735.78															
DISTANCIAS LINEAS DE RIVERA	9.47							56.75								

2+215.89

PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES	8.40	13.06	10.26	10.86	11.08	10.40	10.25	10.52	10.05	10.63	10.03	10.12	13.20	5.75	
DISTANCIAS ACUMULADAS	79.30	65.91	52.85	42.58	31.73	20.65	10.25	0.00	10.52	20.58	31.20	41.23	51.36	64.56	70.30
COTA TN	736.90	736.39	735.24	734.50	734.37	734.20	733.70	732.98	733.50	734.02	734.00	734.99	735.90	736.48	736.64
NIVEL TIRANTE	734.41														
DISTANCIAS LINEAS DE RIVERA	33.47							37.05							

REFERENCIAS

- Pelo de Agua
- Terreno Natural

Esc:1/1,000

0 10 20 40 80

APRHI Administración Provincial de Recursos Hídricos | Ministerio de SERVICIOS PUBLICOS | GOBIERNO DE LA PROVINCIA DE CÓRDOBA | ENTRE TODOS

OBRA: SERVICIOS PROFESIONALES PARA LA DEFINICIÓN DE LA LÍNEA DE RIBERA EN LA ZONA URBANA DE LA LOCALIDAD DE VILLA GENERAL BELGRANO (DEPARTAMENTO CALAMUCHITA)

Plano N° 0008

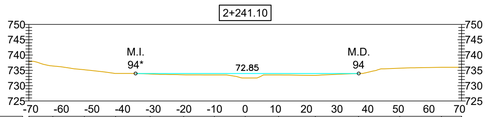
Localidad: Villa General Belgrano

Dpto.: Calamuchita

PLANO: ARROYO EL SAUCE
SECCIONES TRANSVERSALES

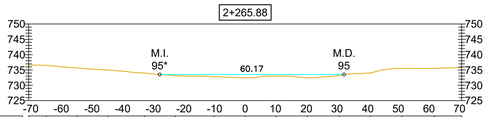
Escala: 1:1000	Fecha: Agosto 2020	Ministro: Ing. Fabian Lopez
Topografía: Consular Consultores Argentinos Asociados S.A.		Secretario de Recursos Hídricos: Ing. Edgar Castelló
Proyecto: Ing. Ramiro M. García		Presidente APRHI: Ing. Juan Pablo Brarda
Dibujo: Ing. Lucia Otero		VOCALES APRHI: Wierzbicky/Plencovich/Herrero/Suaya

2+241.10



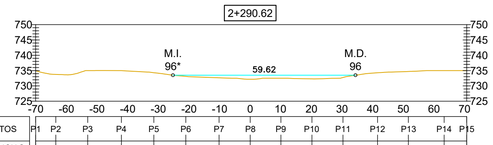
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14
DISTANCIAS PARCIALES		7.84	10.29	10.19	11.26	10.97	10.01	10.07	10.89	11.97	14.13	13.48	13.61	6.56
DISTANCIAS ACUMULADAS	70.64	62.80	52.51	42.32	31.06	20.08	10.07	0.00	10.89	22.86	36.99	50.47	64.08	70.64
COTA TN	737.60	736.42	735.20	734.00	733.81	733.54	733.50	732.50	733.50	733.35	733.97	735.70	736.00	736.00
NIVEL TIRANTE	733.97													
DISTANCIAS LINEAS DE RIVERA	35.78							37.07						

2+265.88



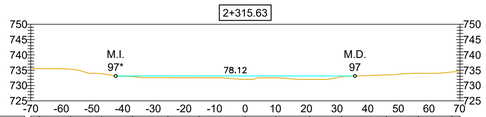
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES		5.75	10.02	10.11	11.93	10.04	12.71	10.13	10.11	10.21	10.41	10.03	10.43	10.55	8.95
DISTANCIAS ACUMULADAS	70.69	64.94	54.92	44.81	32.88	22.84	10.13	0.00	10.11	20.32	30.73	40.76	51.19	61.74	70.69
COTA TN	736.53	736.49	735.66	734.98	734.00	733.12	732.84	732.50	733.00	732.50	733.27	734.00	735.50	735.50	735.79
NIVEL TIRANTE	733.51														
DISTANCIAS LINEAS DE RIVERA	27.90							32.27							

2+290.62



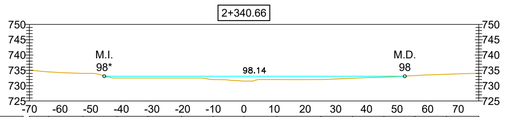
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES		6.55	10.42	10.99	10.60	10.45	10.85	10.17	10.02	10.14	10.13	11.29	10.05	11.69	7.40
DISTANCIAS ACUMULADAS	70.62	63.47	53.05	42.06	31.47	21.02	10.17	0.00	10.02	20.16	30.29	41.58	51.63	63.32	70.71
COTA TN	734.94	733.74	735.00	735.00	734.30	733.10	732.65	732.17	732.50	732.30	732.74	734.29	734.70	735.00	735.60
NIVEL TIRANTE	733.49														
DISTANCIAS LINEAS DE RIVERA	25.23							34.39							

2+315.63



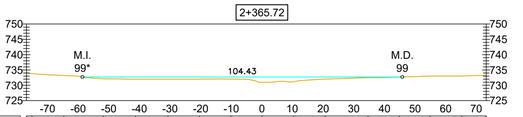
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES		2.86	10.14	10.06	10.24	11.47	10.18	15.05	10.03	11.07	10.39	14.55	10.44	11.01	2.62
DISTANCIAS ACUMULADAS	70.91	67.15	57.01	46.94	36.70	25.23	15.05	0.00	10.03	21.11	31.50	46.04	56.48	67.49	70.11
COTA TN	735.60	735.51	735.31	733.87	732.98	732.54	732.50	732.00	732.50	732.00	732.84	733.50	734.01	734.42	734.55
NIVEL TIRANTE	733.12														
DISTANCIAS LINEAS DE RIVERA	42.28							35.84							

2+340.66



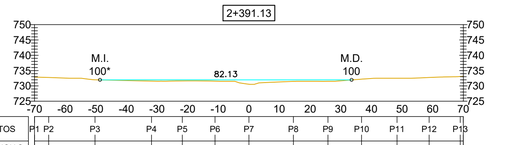
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES		6.30	11.21	11.13	10.03	10.97	10.38	10.02	10.69	14.47	10.32	10.22	10.15	10.26	10.55
DISTANCIAS ACUMULADAS	76.67	70.04	63.74	52.53	41.41	31.37	20.40	10.02	0.00	10.69	25.16	35.48	45.70	55.85	66.11
COTA TN	735.04	734.50	734.01	732.50	732.50	732.50	731.99	731.50	732.00	732.00	732.43	732.77	733.30	733.72	734.66
NIVEL TIRANTE	733.09														
DISTANCIAS LINEAS DE RIVERA	45.60							52.55							

2+365.72



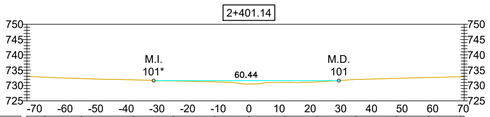
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16
DISTANCIAS PARCIALES		1.80	10.40	12.89	10.49	10.60	10.33	10.27	10.09	10.38	10.24	14.00	10.20	10.04	10.40	7.95
DISTANCIAS ACUMULADAS	79.22	75.67	64.67	51.78	41.29	30.69	20.36	10.09	0.00	10.38	20.63	34.63	44.83	54.87	65.27	73.22
COTA TN	734.91	733.84	733.21	732.11	732.00	732.00	732.00	732.03	731.00	731.16	732.02	732.50	732.68	733.00	733.03	733.29
NIVEL TIRANTE	732.71															
DISTANCIAS LINEAS DE RIVERA	58.60							45.84								

2+391.13



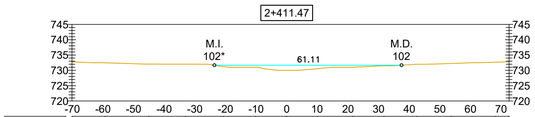
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13
DISTANCIAS PARCIALES		4.63	15.13	18.44	10.06	10.69	11.06	14.50	11.30	10.97	11.58	10.48	10.15	1.01
DISTANCIAS ACUMULADAS	86.00	76.00	65.37	50.24	31.80	21.75	11.06	0.00	14.50	25.80	36.78	48.36	58.84	69.99
COTA TN	732.69	732.76	732.00	731.56	731.64	731.54	730.54	731.48	731.49	732.21	732.49	732.74	733.16	733.16
NIVEL TIRANTE	731.96													
DISTANCIAS LINEAS DE RIVERA	48.60							33.53						

2+401.14



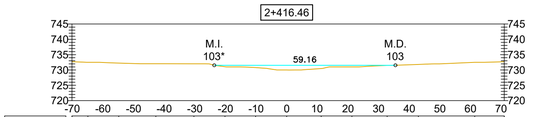
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14
DISTANCIAS PARCIALES		5.90	11.92	17.10	12.97	13.39	11.20	11.76	10.42	12.77	13.17	10.48	10.45	1.23
DISTANCIAS ACUMULADAS	92.49	86.59	74.66	57.56	44.59	31.20	20.00	8.24	11.76	22.18	34.95	48.12	58.60	59.83
COTA TN	732.98	732.71	732.26	731.84	731.50	731.20	730.49	731.06	731.17	732.00	732.35	732.61	732.87	732.91
NIVEL TIRANTE	731.61													
DISTANCIAS LINEAS DE RIVERA	31.08							29.36						

2+411.47



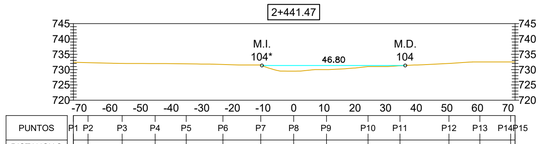
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14
DISTANCIAS PARCIALES		10.85	14.28	11.97	12.39	10.39	10.24	10.00	11.52	10.23	10.74	11.16	14.58	4.36
DISTANCIAS ACUMULADAS	76.12	65.27	51.00	39.03	27.64	17.25	7.01	0.00	11.52	21.75	32.49	43.65	58.23	62.59
COTA TN	732.77	732.47	732.04	732.02	731.21	731.00	730.00	730.51	731.00	731.50	731.98	732.24	732.66	732.81
NIVEL TIRANTE	731.67													
DISTANCIAS LINEAS DE RIVERA	23.60							37.50						

2+416.46



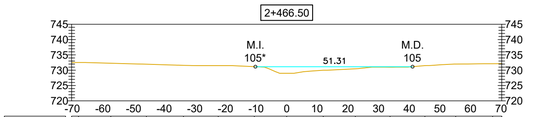
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14
DISTANCIAS PARCIALES		5.21	10.07	12.10	12.42	10.14	10.03	10.14	11.26	10.04	11.48	10.22	18.40	9.60
DISTANCIAS ACUMULADAS	70.69	64.90	54.82	42.73	30.31	20.17	10.14	0.00	11.26	21.29	32.77	42.99	61.39	70.99
COTA TN	732.68	732.51	732.24	732.04	732.01	731.06	730.78	729.99	730.47	731.00	731.49	731.81	732.50	732.69
NIVEL TIRANTE	731.53													
DISTANCIAS LINEAS DE RIVERA	23.66							35.50						

2+441.47



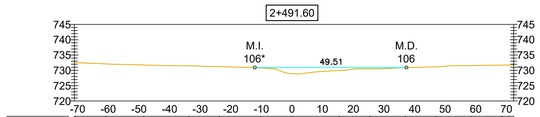
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES		4.77	11.14	10.77	10.14	12.01	12.34	10.76	10.70	13.56	10.44	15.99	10.10	10.05	1.44
DISTANCIAS ACUMULADAS	81.92	77.15	66.01	55.25	45.11	33.10	20.76	10.06	0.00	13.56	24.00	39.99	50.09	60.14	61.58
COTA TN	732.98	732.26	732.00	731.96	731.67	731.67	731.50	729.50	730.00	730.99	731.25	732.00	732.50	732.80	732.80
NIVEL TIRANTE	731.34														
DISTANCIAS LINEAS DE RIVERA	10.38							36.42							

2+466.50



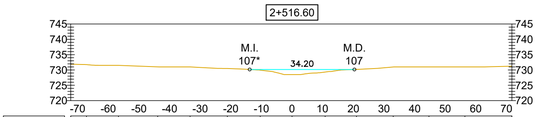
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES		2.22	10.54	11.62	12.12	11.33	11.79	10.58	11.93	10.47	11.33	11.40	10.06	12.05	2.97
DISTANCIAS ACUMULADAS	90.80	87.58	77.03	65.41	53.29	41.17	29.38	18.80	6.87	11.60	22.93	34.33	44.39	56.44	59.41
COTA TN	732.50	732.50	732.27	731.96	731.58	731.50	731.16	729.00	729.98	730.46	731.00	731.50	732.00	732.12	732.13
NIVEL TIRANTE	731.14														
DISTANCIAS LINEAS DE RIVERA	10.22							41.09							

2+491.60



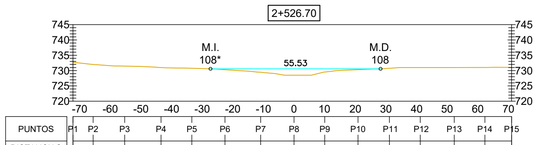
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14
DISTANCIAS PARCIALES		0.23	0.05	12.32	14.73	10.01	13.47	10.24	15.45	10.00	11.49	10.10	11.47	10.01	3.84
DISTANCIAS ACUMULADAS	76.92	76.69	76.64	64.32	49.59	34.86	24.85	10.24	0.00	15.45	25.46	36.95	47.05	58.52	62.36
COTA TN	732.50	732.50	732.11	731.74	731.50	731.22	730.79	728.93	730.00	730.50	730.90	731.16	731.57	731.72	731.74
NIVEL TIRANTE	730.92														
DISTANCIAS LINEAS DE RIVERA	12.16							37.35							

2+516.60



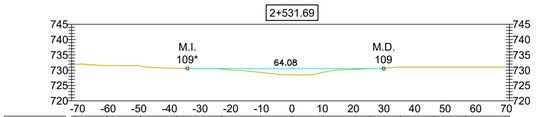
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14
DISTANCIAS PARCIALES		5.14	10.45	12.79	10.57	12.17	10.74	10.40	10.81	10.23	12.00	11.65	11.75	15.35
DISTANCIAS ACUMULADAS	76.25	72.25	67.11	56.66	43.87	33.30	21.13	10.40	0.00	10.81	21.04	33.04	44.69	56.44	71.80
COTA TN	731.90	731.75	731.50	731.03	731.00	730.49	729.95	728.50	729.32	730.19	730.98	731.00	731.00	731.22
NIVEL TIRANTE	730.16													
DISTANCIAS LINEAS DE RIVERA	13.83							20.38						

2+526.70



PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES		6.58	10.30	11.87	10.06	10.82	11.65	10.89	10.04	10.84	10.24	10.09	11.09	10.00	8.73
DISTANCIAS ACUMULADAS	76.71	72.17	65.59	55.29	43.42	33.36	22.54	10.89	0.00	10.04	20.88	31.12	41.21	52.30	62.30	71.03
COTA TN	732.71	732.00	731.47	731.00	730.76	730.29	729.44	728.49	729.53	730.30	730.76	731.00	731.00	731.00	731.03
NIVEL TIRANTE	730.57														
DISTANCIAS LINEAS DE RIVERA	27.27							28.26							

2+531.69



PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14
DISTANCIAS PARCIALES		1.12	10.28	11.02	11.76	14.70	12.87	10.21	10.24	15.18	10.04	10.87	10.35	12.98	1.29
DISTANCIAS ACUMULADAS	90.67	89.55	79.27	68.25	56.49	41.79	28.92	18.71	8.50	10.24	25.42	35.46	46.33	56.68	69.66	70.95
COTA TN	732.80	732.80	731.53	731.38	730.65	730.34	729.28	728.49	729.31	730.50	731.00	731.00	731.00	731.01	731.01
NIVEL TIRANTE	730.57														
DISTANCIAS LINEAS DE RIVERA	34.13							29.95							

REFERENCIAS

- Pelo de Agua
- Terreno Natural

Esc:1/1,000

0 10 20 40 80

APRHI Administración Provincial de Recursos Hídricos | Ministerio de SERVICIOS PUBLICOS | GOBIERNO DE LA PROVINCIA DE CÓRDOBA | ENTRE TODOS

OBRA: SERVICIOS PROFESIONALES PARA LA DEFINICIÓN DE LA LÍNEA DE RIBERA EN LA ZONA URBANA DE LA LOCALIDAD DE VILLA GENERAL BELGRANO (DEPARTAMENTO CALAMUCHITA)

Plano N° 0009

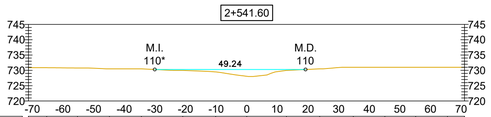
Localidad: Villa General Belgrano

Dpto.: Calamuchita

PLANO: ARROYO EL SAUCE
SECCIONES TRANSVERSALES

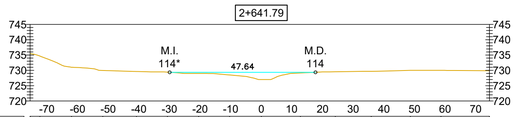
Escala: 1:1000	Fecha: Agosto 2020	Ministro: Ing. Fabian Lopez
Topografia: Consular Consultores Argentinos Asociados S.A.		Secretario de Recursos Hidricos: Ing. Edgar Castelló
Proyecto: Ing. Ramiro M. García		Presidente APRHI: Ing. Juan Pablo Brarda
Dibujo: Ing. Lucia Otero		VOCALES APRHI: Wierzbicky/Plencovich/Herrero/Suaya

2+541.60



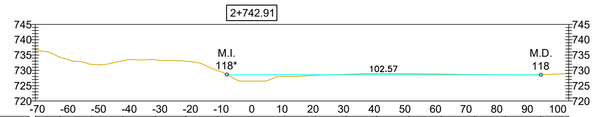
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES		5.97	10.02	10.44	10.43	13.50	10.77	10.14	12.94	10.87	10.95	10.32	10.05	10.38	5.57
DISTANCIAS ACUMULADAS	-71.27	-65.30	-55.28	-44.83	-34.40	-20.90	-10.14	0.00	12.94	23.82	34.77	45.09	55.14	65.52	71.09
COTA TN	730.88	730.87	730.77	730.50	730.50	729.99	729.50	728.07	729.98	730.50	731.00	731.00	731.00	731.00	731.00
NIVEL TIRANTE	730.28														
DISTANCIAS LINEAS DE RIVERA		30.05	19.19												

2+641.79



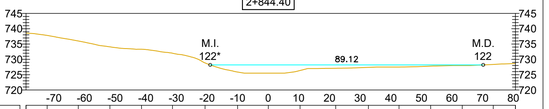
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES		3.22	10.32	10.21	11.00	10.09	10.19	10.12	10.35	12.77	11.39	11.73	12.76	10.03	15.81
DISTANCIAS ACUMULADAS	-75.49	-72.27	-61.95	-51.75	-40.75	-30.66	-20.47	-10.35	0.00	12.77	24.16	35.88	48.65	58.67	74.48
COTA TN	735.50	734.66	731.00	729.96	729.63	729.41	728.99	728.50	727.00	729.15	729.54	729.70	730.00	730.00	729.89
NIVEL TIRANTE	729.36														
DISTANCIAS LINEAS DE RIVERA			29.93	17.71											

2+742.91



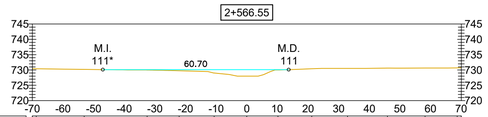
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18
DISTANCIAS PARCIALES		8.10	10.22	10.24	10.60	10.01	10.31	11.20	10.71	10.05	10.03	10.02	10.54	10.59	10.82	10.09	11.41	9.25
DISTANCIAS ACUMULADAS	-74.69	-62.58	-52.37	-42.12	-31.52	-21.51	-11.20	0.00	10.71	20.76	30.79	40.80	51.34	61.94	72.75	82.84	94.25	103.50
COTA TN	736.63	734.28	731.98	733.15	733.47	733.00	729.93	728.50	728.00	728.37	728.69	728.96	728.90	728.79	728.60	728.52	728.57	728.99
NIVEL TIRANTE	728.57																	
DISTANCIAS LINEAS DE RIVERA								8.18				94.39						

2+844.40



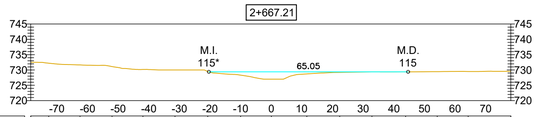
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17
DISTANCIAS PARCIALES		6.90	10.16	10.32	10.32	10.12	10.61	10.66	10.00	10.37	11.64	10.67	10.01	10.32	10.31	10.12	7.23
DISTANCIAS ACUMULADAS	-79.09	-72.19	-62.02	-51.71	-41.38	-31.27	-20.65	-10.00	0.00	10.37	22.01	32.68	42.69	53.01	63.32	73.44	80.66
COTA TN	738.59	737.81	736.00	734.09	733.30	732.00	728.84	725.86	725.49	726.37	727.09	727.37	727.50	727.78	728.00	728.33	728.65
NIVEL TIRANTE	728.19																
DISTANCIAS LINEAS DE RIVERA							18.95					70.16					

2+566.55



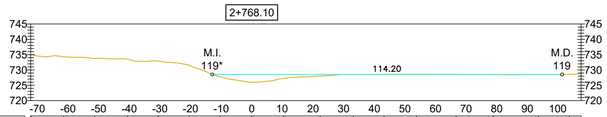
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES		7.29	15.64	20.56	10.45	11.45	10.64	10.17	11.05	11.67	13.02	12.29	10.49	11.33	
DISTANCIAS ACUMULADAS	-78.43	-71.14	-55.50	-34.94	-24.49	-13.04	-2.39	0.00	11.05	22.72	35.74	48.03	58.52	69.85	80.18
COTA TN	730.41	730.41	730.19	729.99	729.75	729.00	727.99	730.00	730.39	730.50	730.61	730.63	730.69	730.71	730.69
NIVEL TIRANTE	730.11														
DISTANCIAS LINEAS DE RIVERA			47.00		13.69										

2+667.21



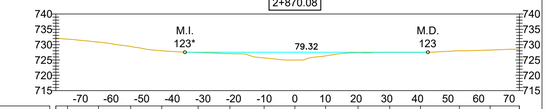
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16
DISTANCIAS PARCIALES		5.89	10.20	10.46	10.06	10.49	10.68	10.74	10.02	11.62	10.73	10.51	11.02	10.30	10.09	13.93
DISTANCIAS ACUMULADAS	-78.54	-72.65	-62.45	-51.99	-41.93	-31.44	-20.76	-10.02	0.00	11.62	22.35	32.85	43.88	54.17	64.27	78.19
COTA TN	732.50	732.21	731.64	731.10	730.16	730.00	729.50	728.31	727.00	728.72	729.23	729.39	729.38	729.46	729.50	729.55
NIVEL TIRANTE	729.39															
DISTANCIAS LINEAS DE RIVERA			20.38		44.67											

2+768.10



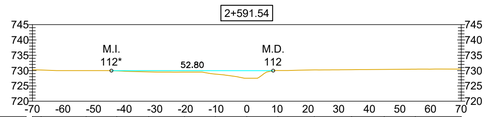
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18
DISTANCIAS PARCIALES		10.64	10.16	10.67	10.02	10.15	10.06	10.38	10.38	11.96	10.82	10.05	10.63	12.90	12.12	14.73	10.12	3.80
DISTANCIAS ACUMULADAS	-72.05	-61.42	-51.27	-40.60	-30.58	-20.43	-10.38	0.00	10.38	22.33	33.15	43.20	53.83	66.72	78.84	93.57	103.69	107.49
COTA TN	735.00	734.29	733.77	733.51	732.93	731.50	727.81	726.00	727.25	728.00	728.50	728.59	728.60	728.57	728.47	728.49	728.60	728.73
NIVEL TIRANTE	728.52																	
DISTANCIAS LINEAS DE RIVERA								12.87				101.33						

2+870.08



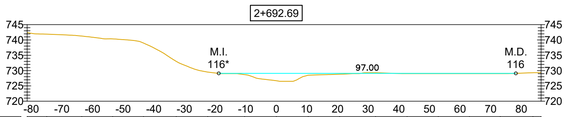
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16
DISTANCIAS PARCIALES		3.80	10.12	10.51	10.15	11.87	10.36	11.17	10.06	10.03	10.56	10.38	10.05	12.65	10.06	9.54
DISTANCIAS ACUMULADAS	-76.94	-74.24	-64.13	-53.61	-43.47	-31.60	-21.23	-10.06	0.00	10.03	20.59	30.97	41.02	53.67	63.73	73.28
COTA TN	732.12	731.80	730.84	729.39	728.00	727.41	727.05	725.67	724.99	726.33	727.38	727.50	727.50	728.00	728.23	728.50
NIVEL TIRANTE	727.52															
DISTANCIAS LINEAS DE RIVERA						35.91						43.41				

2+591.54



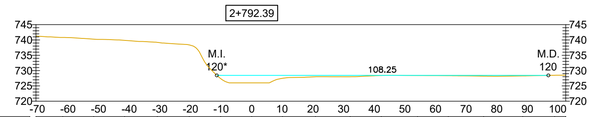
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14
DISTANCIAS PARCIALES		2.86	14.70	10.01	10.40	11.72	10.03	10.30	10.15	11.90	12.16	10.68	10.11	15.00
DISTANCIAS ACUMULADAS	-76.98	-74.12	-67.14	-52.44	-42.43	-32.04	-20.32	-10.30	0.00	10.15	22.05	34.22	44.90	55.00	70.00
COTA TN	730.28	730.19	730.00	729.90	729.58	729.50	728.86	727.50	730.01	730.22	730.30	730.37	730.47	730.49
NIVEL TIRANTE	729.98													
DISTANCIAS LINEAS DE RIVERA			44.18		8.62									

2+692.69



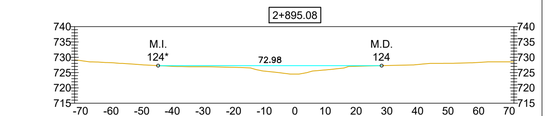
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18
DISTANCIAS PARCIALES		6.41	11.42	10.08	10.07	10.69	10.29	12.05	10.33	10.43	10.23	11.74	10.30	10.19	10.18	10.04	10.67	2.68
DISTANCIAS ACUMULADAS	-81.96	-74.94	-63.52	-53.44	-43.36	-32.67	-22.38	-10.33	0.00	10.43	20.66	32.40	42.69	52.89	63.07	73.11	83.78	86.44
COTA TN	742.43	741.89	741.27	740.34	739.00	733.00	729.50	728.88	726.69	728.50	728.81	729.28	729.00	729.00	729.00	729.00	729.30	729.36
NIVEL TIRANTE	729.09																	
DISTANCIAS LINEAS DE RIVERA			18.78									78.21						

2+792.39



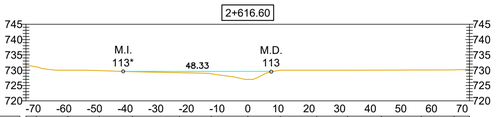
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18
DISTANCIAS PARCIALES		8.75	10.08	10.10	10.68	10.42	10.26	10.15	10.03	10.77	11.30	10.17	11.83	10.06	11.52	12.78	10.42	3.63
DISTANCIAS ACUMULADAS	-79.44	-70.69	-61.70	-51.61	-41.51	-30.84	-20.41	-10.15	0.00	10.03	20.81	32.11	42.28	54.11	64.17	75.70	88.48	98.89	102.52
COTA TN	741.28	741.28	740.81	740.26	739.87	739.21	738.37	727.39	725.99	727.48	727.98	727.99	728.40	728.39	728.33	728.18	728.25	728.47	728.59
NIVEL TIRANTE	728.43																	
DISTANCIAS LINEAS DE RIVERA								11.40				96.85						

2+895.08



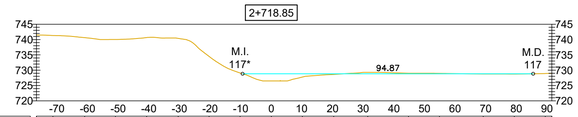
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14
DISTANCIAS PARCIALES		7.57	11.45	11.05	10.20	10.36	11.05	10.24	10.97	16.21	11.15	10.07	12.04	10.16
DISTANCIAS ACUMULADAS	-74.91	-67.34	-55.89	-44.84	-34.64	-23.59	-12.54	-1.49	0.00	10.97	27.18	38.33	48.40	60.44	70.60
COTA TN	729.09	728.45	727.78	727.12	726.91	726.73	725.50	724.50	724.50	725.98	727.24	727.50	728.01	728.35	728.50
NIVEL TIRANTE	727.27														
DISTANCIAS LINEAS DE RIVERA					44.66						28.33				

2+616.60



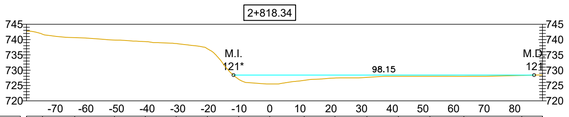
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES		3.35	10.34	10.23	10.80	15.36	10.38	11.94	10.60	11.91	10.07	11.03	13.02	10.73	5.01
DISTANCIAS ACUMULADAS	-79.44	-76.09	-69.05	-58.71	-48.48	-37.68	-22.32	-11.94	0.00	10.60	22.51	32.59	43.61	56.63	67.36	72.37
COTA TN	734.70	731.10	730.00	729.86	729.50	729.19	728.85	727.00	730.00	730.00	730.00	730.01	730.07	730.13	730.21
NIVEL TIRANTE	729.60														
DISTANCIAS LINEAS DE RIVERA					40.66				7.67						

2+718.85



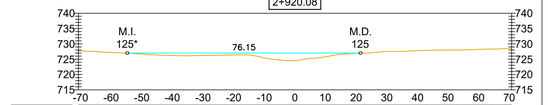
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18
DISTANCIAS PARCIALES		5.38	10.37	10.03	10.20	10.28	10.10	10.13	10.19	10.15	10.21	11.11	13.32	10.10	14.28	10.17	10.09	2.16
DISTANCIAS ACUMULADAS	-81.49	-76.09	-71.30	-60.93	-50.90	-40.70	-30.41	-20.32	-10.19	0.00	10.15	20.36	31.47	44.80	54.90	69.18	79.34	81.43	83.59
COTA TN	744.49	744.31	740.63	740.03	740.65	740.38	734.50	729.09	726.50	727.77	728.62	729.30	729.01	728.95	728.76	728.74	728.31	728.27
NIVEL TIRANTE	728.83																	
DISTANCIAS LINEAS DE RIVERA					9.36							85.51						

2+818.34



PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17
DISTANCIAS PARCIALES		5.23	10.52	12.96	10.06	10.10	10.18	10.26	10.12	11.27	10.03	10.43	10.25	10.31	11.09	18.91	6.75
DISTANCIAS ACUMULADAS	-84.42	-79.19	-74.19	-63.66	-50.71	-40.65	-30.55	-20.37	-10.12	0.00	11.27	21.30	31.73	41.98	52.30	63.39	82.30	89.05
COTA TN	742.69	741.73	740.63	739.83	739.34	738.71	737.00	727.00	725.50	726.69	727.45	727.66	728.00	728.00	727.99	728.30	728.49
NIVEL TIRANTE	728.40																
DISTANCIAS LINEAS DE RIVERA								11.84				86.32					

2+920.08



PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES		9.07	10.07	10.17	10.10	10.15	10.71	10.42	11.28	10.06	10.15	12.48	10.22	11.45	5.15
DISTANCIAS ACUMULADAS	-81.69	-72.62	-61.62	-51.55	-41.38	-31.29	-21.14	-10.42	0.00	11.28	21.34	31.49	43.98	54.19	65.64	70.79
COTA TN	727.72	727.29	726.77	726.23	726.19	726.37	725.50	724.50	726.00	727.00	727.51	727.90	728.00	728.30	728.49
NIVEL TIRANTE	727.00														
DISTANCIAS LINEAS DE RIVERA					54.72						21.43				

REFERENCIAS

- Pelo de Agua
- Terreno Natural

Esc:1/1,000

0 10 20 40 80

APRHI Administración Provincial de Recursos Hídricos | Ministerio de SERVICIOS PÚBLICOS | GOBIERNO DE LA PROVINCIA DE CÓRDOBA | ENTRE TODOS

OBRA: SERVICIOS PROFESIONALES PARA LA DEFINICIÓN DE LA LÍNEA DE RIBERA EN LA ZONA URBANA DE LA LOCALIDAD DE VILLA GENERAL BELGRANO (DEPARTAMENTO CALAMUCHITA)

Plano N° 0010

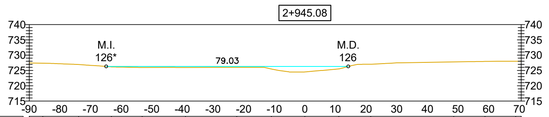
Localidad: Villa General Belgrano

Dpto.: Calamuchita

PLANO: ARROYO EL SAUCE
SECCIONES TRANSVERSALES

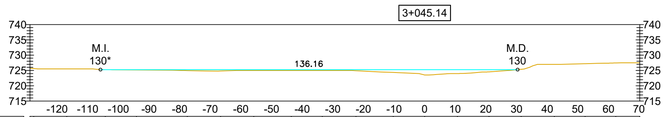
Escala: 1:1000	Fecha: Agosto 2020	Ministro: Ing. Fabian Lopez
Topografía: Consular Consultores Argentinos Asociados S.A.		Secretario de Recursos Hídricos: Ing. Edgar Castelló
Proyecto: Ing. Ramiro M. García		Presidente APRHI: Ing. Juan Pablo Brarda
Dibujo: Ing. Lucia Otero		VOCALES APRHI: Wierzbicky/Plencovich/Herrero/Suaya

2+945.08



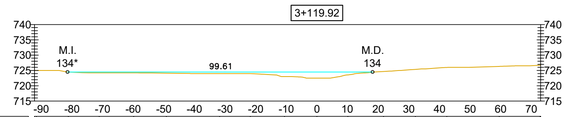
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES	4.45	11.67	10.73	10.00	14.16	16.78	11.28	10.93	11.11	10.38	27.10	10.20	10.05	1.77	
DISTANCIAS ACUMULADAS	-90.00	-85.55	-73.88	-63.15	-53.15	-38.98	-22.21	-10.93	0.00	11.11	21.49	48.59	58.79	68.84	69.61
COTA TN	727.45	727.35	726.93	726.15	725.97	725.99	726.00	725.47	724.51	725.50	727.02	727.79	727.94	728.00	728.00
NIVEL TIRANTE	726.30														
DISTANCIAS LINEAS DE RIVERA	64.86								14.17						

3+045.14



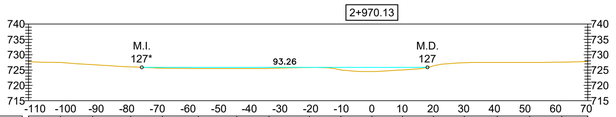
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20
DISTANCIAS PARCIALES	1.24	10.80	12.52	10.21	16.58	10.89	10.83	12.26	10.10	11.02	12.17	10.25	10.70	10.30	10.52	10.82	10.04	10.04	7.81	
DISTANCIAS ACUMULADAS	-121.85	-120.61	-116.83	-104.31	-94.09	-77.52	-66.63	-55.80	-43.55	-33.45	-22.43	-10.25	0.00	10.70	20.99	31.52	42.34	52.38	62.42	70.23
COTA TN	725.72	725.72	725.49	725.26	725.16	724.94	724.82	725.00	725.00	725.00	724.93	724.34	723.53	724.00	724.55	725.39	727.00	727.19	727.45	727.56
NIVEL TIRANTE	725.27																			
DISTANCIAS LINEAS DE RIVERA	105.82											30.34								

3+119.92



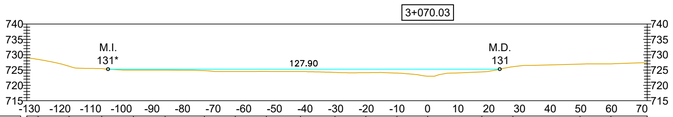
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES	10.41	10.06	11.29	10.66	17.37	10.00	11.17	10.61	10.09	11.66	10.36	10.31	17.09	13.33	0.23
DISTANCIAS ACUMULADAS	-91.58	-81.17	-71.11	-59.82	-49.15	-31.78	-21.78	-10.61	0.00	10.09	21.75	32.10	42.42	59.51	72.83
COTA TN	725.00	724.48	724.22	724.25	724.12	724.00	724.00	723.00	722.50	723.55	724.67	725.35	725.98	726.33	726.60
NIVEL TIRANTE	724.50														
DISTANCIAS LINEAS DE RIVERA	81.41								18.19						

2+970.13



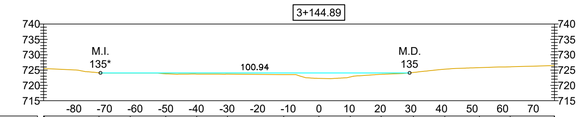
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18
DISTANCIAS PARCIALES	10.41	10.54	12.41	10.35	11.76	12.55	10.53	13.20	10.26	10.10	10.01	10.11	10.08	10.75	10.59	10.45	8.49	
DISTANCIAS ACUMULADAS	-112.11	-101.70	-91.16	-78.76	-68.40	-56.84	-44.09	-33.56	-20.36	-10.10	0.00	10.01	20.12	30.20	40.94	51.53	61.98	70.47
COTA TN	727.68	727.50	726.75	726.03	725.60	725.50	725.50	725.54	725.84	725.00	724.50	725.01	726.37	727.39	727.50	727.50	727.58	727.76
NIVEL TIRANTE	725.88																	
DISTANCIAS LINEAS DE RIVERA	75.09										18.17							

3+070.03



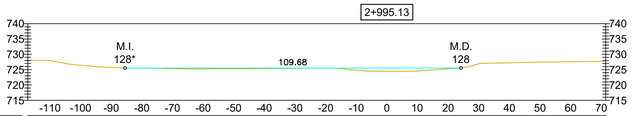
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
DISTANCIAS PARCIALES	3.70	10.12	10.67	10.31	10.39	12.81	10.08	10.15	11.11	11.28	10.06	10.17	10.02	17.73	10.08	21.94	10.07	11.88	
DISTANCIAS ACUMULADAS	-130.88	-127.18	-117.06	-106.40	-96.08	-85.69	-72.88	-62.80	-52.64	-41.53	-30.25	-20.19	-10.02	0.00	17.73	27.80	49.74	59.81	71.69
COTA TN	726.69	726.50	726.24	725.50	725.00	724.97	724.80	724.50	724.55	724.50	724.22	724.14	724.00	723.00	724.40	726.08	726.94	727.02	727.43
NIVEL TIRANTE	725.30																		
DISTANCIAS LINEAS DE RIVERA	104.34											23.56							

3+144.89



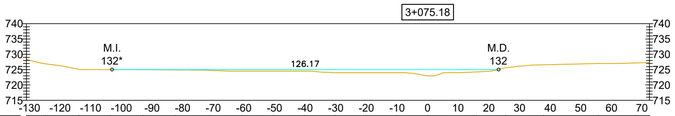
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES	0.27	17.83	10.17	11.60	10.13	10.02	18.36	11.50	10.21	10.08	10.56	10.24	11.28	10.06	14.40	0.05
DISTANCIAS ACUMULADAS	-69.93		-71.79	-61.62	-50.02	-39.89	-29.86	-11.50	0.00	10.21	20.29	30.86	41.10	52.38	62.44	76.09
COTA TN	725.60		724.12	724.00	723.77	723.69	723.65	723.51	722.27	722.75	723.60	724.21	725.26	725.79	726.05	726.48
NIVEL TIRANTE	724.07															
DISTANCIAS LINEAS DE RIVERA	71.31									29.63						

2+995.13



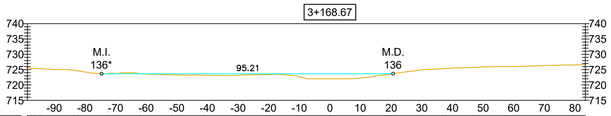
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18
DISTANCIAS PARCIALES	9.86	10.07	10.24	10.26	10.01	12.10	10.01	11.20	11.83	10.39	11.27	12.26	10.01	10.84	17.18	14.26	6.89	
DISTANCIAS ACUMULADAS	-117.23	-107.37	-97.30	-87.06	-76.80	-66.79	-54.70	-44.69	-33.49	-21.66	-11.27	0.00	12.26	22.27	33.11	50.29	64.55	71.44
COTA TN	726.04	727.50	726.19	725.61	725.44	725.28	725.26	725.29	725.41	725.50	724.91	724.48	724.71	725.39	727.08	727.50	727.63	727.77
NIVEL TIRANTE	725.54																	
DISTANCIAS LINEAS DE RIVERA	85.47											24.22						

3+075.18



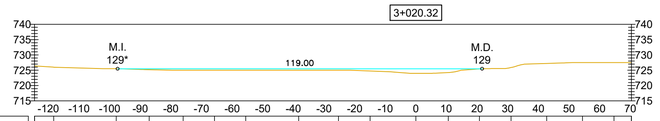
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20
DISTANCIAS PARCIALES	6.17	10.99	10.09	10.73	10.62	11.37	10.45	10.32	10.01	10.04	10.04	10.04	10.15	15.17	10.30	12.29	17.92	11.93	4.76	
DISTANCIAS ACUMULADAS	-131.91	-124.84	-113.85	-103.76	-93.03	-82.42	-71.05	-60.59	-50.27	-40.27	-30.23	-20.19	-10.15	0.00	15.17	25.47	37.76	55.69	67.62	72.38
COTA TN	726.38	726.90	725.10	725.00	724.99	724.89	724.76	724.50	724.50	724.50	724.00	724.00	724.00	723.00	724.22	725.60	726.58	727.00	727.17	727.33
NIVEL TIRANTE	725.00																			
DISTANCIAS LINEAS DE RIVERA	103.01											23.17								

3+168.67



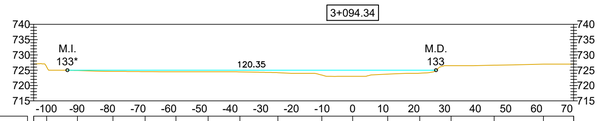
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
DISTANCIAS PARCIALES	4.09	12.42	10.29	10.11	10.25	10.42	10.15	10.25	10.10	10.71	10.18	10.95	15.60	10.11	10.34	11.78	10.25	4.19	
DISTANCIAS ACUMULADAS	-99.79	-94.70	-82.29	-72.00	-61.89	-51.64	-41.22	-31.06	-20.81	-10.71	0.00	10.18	21.13	36.73	46.84	57.18	68.96	79.21	83.40
COTA TN	725.79	725.29	724.62	723.82	723.69	723.31	723.17	723.12	723.41	722.89	722.00	722.28	723.73	725.32	725.72	726.00	726.30	726.55	726.73
NIVEL TIRANTE	723.64																		
DISTANCIAS LINEAS DE RIVERA	74.57											20.64							

3+020.32



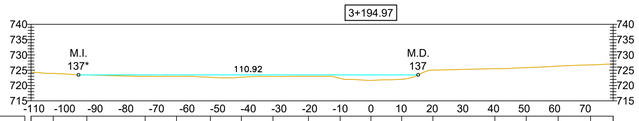
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18
DISTANCIAS PARCIALES	6.28	20.40	10.77	11.08	10.27	10.20	17.27	12.99	10.35	14.92	10.60	10.14	10.34	11.62	11.71	10.27	5.70	
DISTANCIAS ACUMULADAS	-124.51	-118.24	-97.83	-87.07	-75.99	-65.72	-55.53	-38.26	-25.27	-14.92	0.00	10.60	20.73	31.07	42.70	54.41	64.67	70.37
COTA TN	726.41	726.00	725.50	725.19	725.00	725.00	725.00	725.00	725.00	724.75	724.00	724.25	725.43	725.88	727.23	727.50	727.50	727.59
NIVEL TIRANTE	725.48																	
DISTANCIAS LINEAS DE RIVERA	97.34										21.65							

3+094.34



PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17
DISTANCIAS PARCIALES	4.26	10.01	11.61	10.48	10.08	10.51	10.35	12.41	14.36	10.06	11.44	10.48	10.21	14.05	16.10	9.88	
DISTANCIAS ACUMULADAS	-104.14	-99.88	-89.87	-78.26	-67.76	-57.70	-47.19	-36.83	-24.43	-10.06	0.00	11.44	21.92	32.13	46.18	62.28	72.16
COTA TN	726.89	726.04	724.92	724.64	724.55	724.50	724.50	724.46	724.22	723.42	723.00	723.75	724.02	726.50	726.64	726.99	727.02
NIVEL TIRANTE	725.00																
DISTANCIAS LINEAS DE RIVERA	93.13										27.22						

3+194.97



PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18
DISTANCIAS PARCIALES	7.25	10.96	19.05	10.27	11.05	10.10	10.35	11.53	10.39	10.04	10.03	10.18	20.23	10.25	10.44	10.57	7.38	
DISTANCIAS ACUMULADAS	-110.98	-103.73	-82.77	-73.72	-63.45	-52.41	-42.31	-31.96	-20.43	-10.04	0.00	10.03	20.21	40.44	50.69	61.13	71.70	79.08
COTA TN	724.47	723.99	723.49	723.00	722.99	722.70	722.72	722.96	723.00	722.33	721.68	722.04	725.03	725.50	725.85	726.34	726.75	726.98
NIVEL TIRANTE	723.50																	
DISTANCIAS LINEAS DE RIVERA	95.46										15.46							

REFERENCIAS

- Pelo de Agua
- Terreno Natural

Esc:1/1,000

0 10 20 40 80

APRHI Administración Provincial de Recursos Hídricos | Ministerio de SERVICIOS PUBLICOS | GOBIERNO DE LA PROVINCIA DE CÓRDOBA | ENTRE TODOS

OBRA: SERVICIOS PROFESIONALES PARA LA DEFINICIÓN DE LA LÍNEA DE RIBERA EN LA ZONA URBANA DE LA LOCALIDAD DE VILLA GENERAL BELGRANO (DEPARTAMENTO CALAMUCHITA)

Plano N° 0011

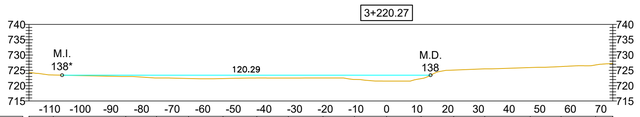
Localidad: Villa General Belgrano

Dpto.: Calamuchita

PLANO: ARROYO EL SAUCE SECCIONES TRANSVERSALES

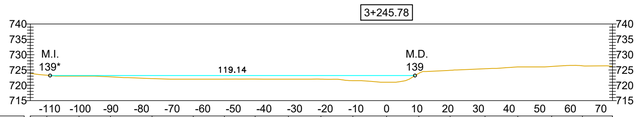
Escala: 1:1000	Fecha: Agosto 2020	Ministro: Ing. Fabian Lopez
Topografia: Consular Consultores Argentinos Asociados S.A.		Secretario de Recursos Hidricos: Ing. Edgar Castelló
Proyecto: Ing. Ramiro M. García		Presidente APRHI: Ing. Juan Pablo Brarda
Dibujo: Ing. Lucia Otero		VOCALES APRHI: Wierzbicky/Plencovich/Herrero/Suaya

3+220.27



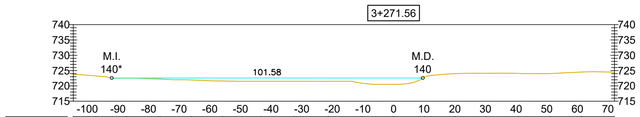
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18
DISTANCIAS PARCIALES	7.93	23.67	10.02	10.46	11.28	11.05	10.27	11.30	10.30	10.48	11.26	10.66	10.12	14.86	10.06	11.25	5.63	
DISTANCIAS ACUMULADAS	-116.76	-108.83	-85.16	-75.14	-64.68	-53.40	-42.35	-32.08	-20.78	-10.48	0.00	11.26	21.92	32.04	46.91	56.97	68.22	73.85
COTA TN	724.35	723.49	723.00	722.52	722.34	722.32	722.50	722.49	722.50	722.02	721.50	722.30	725.09	725.50	725.91	726.24	726.77	727.25
NIVEL TIRANTE	723.43																	
DISTANCIAS LINEAS DE RIVERA	105.93										14.36							

3+245.78



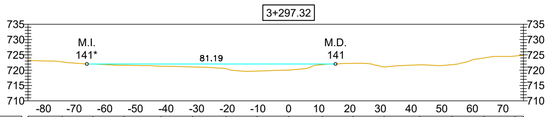
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18
DISTANCIAS PARCIALES	5.39	10.51	10.26	13.58	13.44	10.20	10.03	10.85	10.60	10.44	11.01	10.53	10.20	11.39	10.71	11.07	10.05	9.80
DISTANCIAS ACUMULADAS	-116.93	-110.92	-100.41	-90.15	-76.58	-63.13	-52.93	-42.91	-32.05	-21.45	-11.01	0.00	10.53	20.73	32.12	42.83	53.90	63.95	73.75
COTA TN	723.91	723.28	723.00	722.76	722.18	722.00	722.01	722.04	722.00	722.00	721.51	721.00	723.90	724.89	725.40	726.00	726.15	726.36	726.22
NIVEL TIRANTE	723.18																	
DISTANCIAS LINEAS DE RIVERA	109.86										9.28							

3+271.56



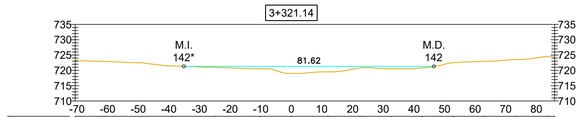
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18
DISTANCIAS PARCIALES	7.37	10.12	10.81	10.27	10.22	12.52	10.71	11.24	10.92	10.38	10.07	10.02	10.06	10.69	10.29	10.31	10.66	
DISTANCIAS ACUMULADAS	-104.59	-97.21	-87.08	-76.28	-66.01	-55.78	-43.26	-32.55	-21.30	-10.38	0.00	10.07	20.09	30.15	40.84	51.13	61.43	72.09
COTA TN	723.61	723.25	722.49	722.23	721.93	721.59	721.50	721.50	721.50	720.89	720.50	722.90	724.00	724.11	724.08	724.03	724.52	724.30
NIVEL TIRANTE	722.58																	
DISTANCIAS LINEAS DE RIVERA	92.03										9.55							

3+297.32



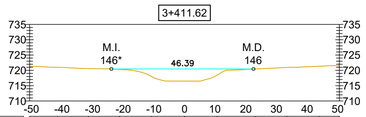
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17
DISTANCIAS PARCIALES	11.15	10.05	10.13	12.13	10.25	10.97	10.06	10.33	11.01	10.06	10.12	11.62	10.51	10.41	10.16	2.81	
DISTANCIAS ACUMULADAS	-85.07	-73.92	-63.88	-53.74	-41.61	-31.36	-20.39	-10.33	0.00	11.01	21.07	31.18	42.80	53.31	63.72	73.88	76.69
COTA TN	723.19	722.70	722.00	721.61	721.28	721.05	720.50	719.71	720.04	721.82	722.23	721.07	721.76	721.82	724.00	724.63	724.88
NIVEL TIRANTE	722.02																
DISTANCIAS LINEAS DE RIVERA	65.86										15.33						

3+321.14



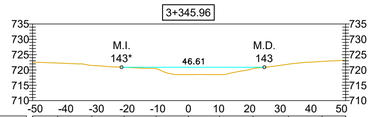
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16
DISTANCIAS PARCIALES	9.43	12.16	10.10	13.85	14.83	10.22	11.96	10.45	10.14	10.22	10.08	10.23	10.38	10.31	2.18	
DISTANCIAS ACUMULADAS	-70.69	-61.16	-49.00	-38.90	-25.05	-10.22	0.00	11.96	22.41	32.55	42.77	52.85	63.08	73.46	83.77	85.95
COTA TN	723.14	722.92	722.50	721.46	720.98	720.50	719.00	719.52	720.78	720.50	720.81	722.51	722.97	723.51	724.50	724.25
NIVEL TIRANTE	721.30															
DISTANCIAS LINEAS DE RIVERA	35.09									46.53						

3+411.62



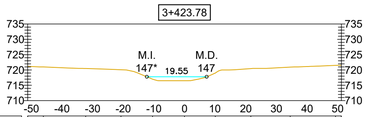
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11
DISTANCIAS PARCIALES	9.07	10.12	10.07	10.51	10.78	10.67	12.50	10.17	10.63	6.59	
DISTANCIAS ACUMULADAS	-50.55	-41.48	-31.36	-21.28	-10.78	0.00	10.67	23.17	33.34	43.97	50.55
COTA TN	721.37	720.99	720.58	720.29	718.00	716.50	718.46	720.49	720.95	721.35	721.55
NIVEL TIRANTE	720.45										
DISTANCIAS LINEAS DE RIVERA	23.86					22.53					

3+345.96



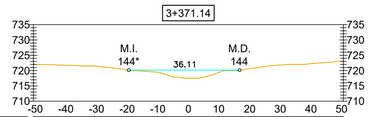
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11
DISTANCIAS PARCIALES	8.15	11.20	10.52	10.46	10.53	10.18	10.94	11.55	10.97	7.69	
DISTANCIAS ACUMULADAS	-50.66	-42.71	-31.51	-20.99	-10.53	0.00	10.18	21.12	32.67	43.64	51.33
COTA TN	722.50	722.27	721.47	720.87	720.49	718.51	718.49	720.45	721.90	722.78	723.15
NIVEL TIRANTE	720.90										
DISTANCIAS LINEAS DE RIVERA	21.80					24.81					

3+423.78



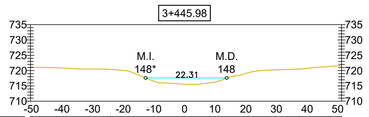
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11
DISTANCIAS PARCIALES	5.09	13.84	11.51	10.31	10.43	10.06	11.60	12.85	14.79	1.90	
DISTANCIAS ACUMULADAS	-51.18	-46.09	-32.25	-20.74	-10.43	0.00	10.06	21.66	34.51	49.30	51.19
COTA TN	721.17	721.00	720.50	720.07	717.00	716.49	719.00	720.46	720.94	721.50	721.55
NIVEL TIRANTE	717.78										
DISTANCIAS LINEAS DE RIVERA	12.30					7.25					

3+371.14



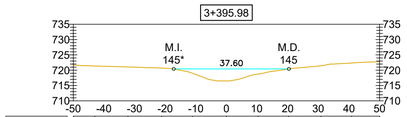
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11
DISTANCIAS PARCIALES	7.48	12.51	10.44	10.13	10.04	10.14	11.44	10.93	10.11	7.99	
DISTANCIAS ACUMULADAS	-59.60	-43.12	-30.61	-20.16	-10.04	0.00	10.14	21.58	32.50	42.61	50.60
COTA TN	722.07	721.85	721.43	720.23	719.42	717.50	719.50	720.84	722.00	722.50	723.16
NIVEL TIRANTE	720.14										
DISTANCIAS LINEAS DE RIVERA	19.42					16.69					

3+445.98



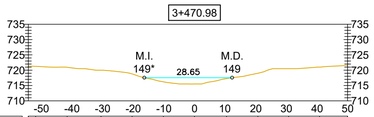
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10
DISTANCIAS PARCIALES	8.48	17.66	13.80	10.35	10.08	10.74	16.54	10.25	3.67	
DISTANCIAS ACUMULADAS	-50.29	-41.80	-24.15	-10.35	0.00	10.08	20.82	37.36	47.60	51.28
COTA TN	721.23	720.93	720.37	716.65	715.54	716.32	719.29	720.50	721.36	721.52
NIVEL TIRANTE	717.60									
DISTANCIAS LINEAS DE RIVERA	12.69					13.78				

3+395.98



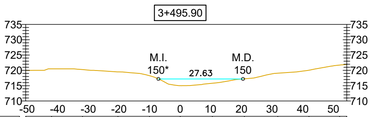
PUNTOS	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11
DISTANCIAS PARCIALES	7.06	10.79	11.01	10.09	11.05	10.34	10.01	10.49	10.00	9.16
DISTANCIAS ACUMULADAS	-56.00	-42.94	-32.15	-21.14	-11.05	0.00	10.34	20.34	30.83	40.84	50.00
COTA TN	721.66	721.35	721.06	720.70	719.00	716.50	718.75	720.41	721.43	722.35	722.75
NIVEL TIRANTE	720.42										
DISTANCIAS LINEAS DE RIVERA	17.18					20.42					

3+470.98



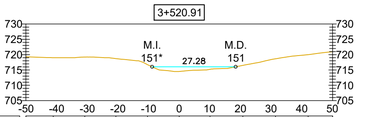
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12
DISTANCIAS PARCIALES	2.39	10.27	11.07	10.16	10.20	10.16	10.45	10.22	10.06	10.08	9.19	
DISTANCIAS ACUMULADAS	-50.00	-47.61	-41.60	-30.52	-20.36	-10.16	0.00	10.45	20.67	30.73	40.81	50.00
COTA TN	721.35	721.25	720.95	720.00	718.79	716.20	715.49	717.25	719.00	720.50	721.01	721.51
NIVEL TIRANTE	717.55											
DISTANCIAS LINEAS DE RIVERA	16.37					12.28						

3+495.90



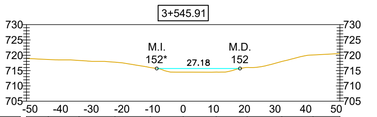
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12
DISTANCIAS PARCIALES	8.46	10.08	11.59	10.30	10.02	10.49	10.47	10.90	10.18	10.01	2.35	
DISTANCIAS ACUMULADAS	-50.45	-41.99	-31.91	-20.32	-10.02	0.00	10.49	20.96	31.86	42.04	52.04	54.39
COTA TN	719.99	720.50	720.26	719.50	718.25	715.00	715.80	717.24	719.08	720.04	721.73	721.90
NIVEL TIRANTE	717.20											
DISTANCIAS LINEAS DE RIVERA	7.11					20.52						

3+520.91



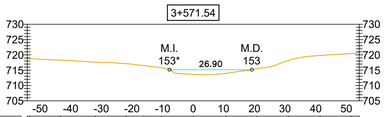
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11
DISTANCIAS PARCIALES	8.94	10.30	10.16	10.32	10.35	10.05	10.73	10.67	10.66	7.97	
DISTANCIAS ACUMULADAS	-50.07	-41.13	-30.83	-20.67	-10.35	0.00	10.05	20.77	31.44	42.10	50.07
COTA TN	719.29	719.00	719.21	718.70	716.74	714.51	715.22	716.50	718.65	720.00	720.97
NIVEL TIRANTE	716.04										
DISTANCIAS LINEAS DE RIVERA	8.84					18.44					

3+545.91



PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11
DISTANCIAS PARCIALES	7.11	10.05	11.73	11.56	10.73	10.76	10.10	11.34	10.18	8.78	
DISTANCIAS ACUMULADAS	-51.16	-44.06	-34.01	-22.29	-10.73	0.00	10.76	20.86	32.20	42.38	51.16
COTA TN	718.97	718.62	718.30	717.74	716.00	714.49	714.50	716.01	717.88	720.09	720.63
NIVEL TIRANTE	715.68										
DISTANCIAS LINEAS DE RIVERA	8.63					18.54					

3+571.54



PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12
DISTANCIAS PARCIALES	10.05	11.38	10.08	11.49	10.44	10.72	10.03	10.48	10.20	10.11	2.65	
DISTANCIAS ACUMULADAS	-53.44	-43.39	-32.01	-21.93	-10.44	0.00	10.72	20.75	31.23	41.43	51.14	53.79
COTA TN	718.74	718.27	717.63	717.12	715.80	713.60	714.00	715.51	718.18	719.80	720.42	720.61
NIVEL TIRANTE	715.17											
DISTANCIAS LINEAS DE RIVERA	7.76					19.15						

REFERENCIAS

- Pelo de Agua
- Terreno Natural

Esc:1/1,000

0 10 20 40 80

OBRA: SERVICIOS PROFESIONALES PARA LA DEFINICIÓN DE LA LÍNEA DE RIBERA EN LA ZONA URBANA DE LA LOCALIDAD DE VILLA GENERAL BELGRANO (DEPARTAMENTO CALAMUCHITA)

Plano N° 0012

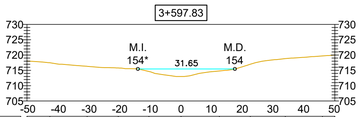
Localidad: Villa General Belgrano

Dpto.: Calamuchita

PLANO: ARROYO EL SAUCE SECCIONES TRANSVERSALES

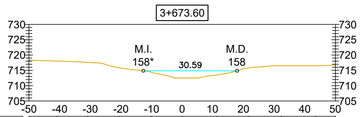
Escala: 1:1000	Fecha: Agosto 2020	Ministro: Ing. Fabian Lopez
Topografia: Consular Consultores Argentinos Asociados S.A.		Secretario de Recursos Hidricos: Ing. Edgar Castelló
Proyecto: Ing. Ramiro M. García		Presidente APRHI: Ing. Juan Pablo Brarda
Dibujo: Ing. Lucia Otero		VOCALES APRHI: Wierzbicky/Plencovich/Herrero/Suaya

3+597.83



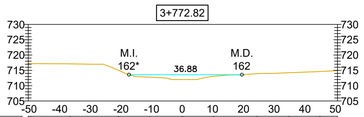
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11
DISTANCIAS PARCIALES		7.49	12.15	10.15	10.03	10.48	12.52	10.09	11.43	12.13	4.06
DISTANCIAS ACUMULADAS	-50.00	-42.52	-30.36	-20.21	-10.18	0.00	12.52	22.61	34.03	46.16	50.22
COTA TN	718.03	717.48	716.32	715.79	714.63	713.00	714.80	717.00	718.83	719.71	720.00
NIVEL TIRANTE	715.45										
DISTANCIAS LINEAS DE RIVERA				14.08		17.58					

3+673.60



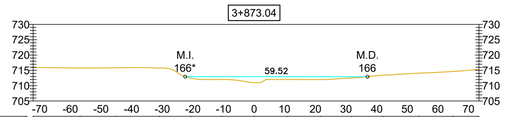
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11
DISTANCIAS PARCIALES		9.15	10.08	10.34	10.38	10.08	11.35	10.44	10.53	11.30	6.41
DISTANCIAS ACUMULADAS	-50.00	-40.85	-30.81	-20.47	-10.08	0.00	11.35	21.79	32.32	43.62	50.03
COTA TN	718.35	718.02	717.61	715.82	714.38	712.50	713.50	715.79	716.50	716.50	716.70
NIVEL TIRANTE	714.86										
DISTANCIAS LINEAS DE RIVERA				12.66		17.93					

3+772.82



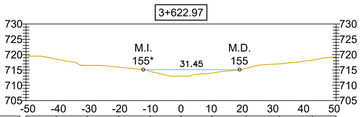
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10
DISTANCIAS PARCIALES		12.87	15.77	10.03	10.74	10.29	14.13	10.43	10.09	5.73
DISTANCIAS ACUMULADAS	-49.40	-36.54	-20.77	-10.74	0.00	10.29	24.42	34.85	44.94	50.67
COTA TN	717.19	717.12	715.00	712.78	712.00	713.07	713.90	714.23	714.63	714.90
NIVEL TIRANTE	713.58									
DISTANCIAS LINEAS DE RIVERA				17.40		19.47				

3+873.04



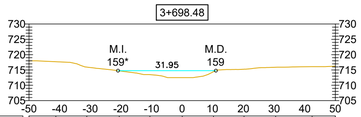
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14
DISTANCIAS PARCIALES		15.36	11.76	14.08	10.23	10.13	10.60	10.69	11.05	10.13	10.18	11.70	11.18	8.44
DISTANCIAS ACUMULADAS	-72.14	-56.79	-45.03	-30.96	-20.72	-10.60	0.00	10.69	21.75	31.88	42.06	53.77	64.95	73.40
COTA TN	716.95	715.77	715.83	715.76	712.50	711.99	711.00	712.00	711.99	712.50	713.44	714.09	714.65	715.93
NIVEL TIRANTE	712.93													
DISTANCIAS LINEAS DE RIVERA					22.49			37.03						

3+622.97



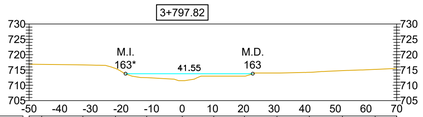
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11
DISTANCIAS PARCIALES		9.86	10.11	10.33	10.27	10.05	10.07	11.21	10.84	10.83	7.66
DISTANCIAS ACUMULADAS	-50.62	-40.76	-30.64	-20.32	-10.05	0.00	10.07	21.29	32.13	42.95	50.62
COTA TN	719.50	718.56	716.50	715.91	714.50	713.00	713.97	715.50	716.99	718.19	719.27
NIVEL TIRANTE	715.10										
DISTANCIAS LINEAS DE RIVERA				12.33		19.13					

3+698.48



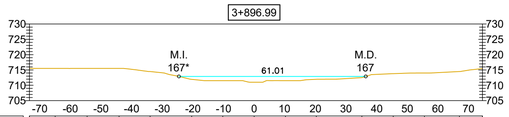
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11
DISTANCIAS PARCIALES		8.77	10.11	10.58	10.00	10.54	10.20	10.00	10.32	11.90	7.58
DISTANCIAS ACUMULADAS	-50.00	-41.23	-31.13	-20.54	-10.54	0.00	10.20	20.20	30.52	42.42	50.00
COTA TN	718.00	717.69	715.93	714.71	713.49	712.50	714.44	715.26	715.89	716.08	716.25
NIVEL TIRANTE	714.76										
DISTANCIAS LINEAS DE RIVERA				20.94		11.01					

3+797.82



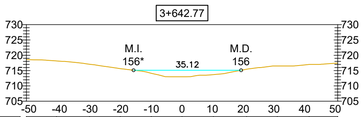
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13
DISTANCIAS PARCIALES		4.12	13.44	10.65	10.20	11.61	10.28	10.03	10.61	10.55	10.84	10.65	7.06
DISTANCIAS ACUMULADAS	-50.00	-45.90		-32.46	-21.81	-11.61	0.00	10.28	20.31	30.92	41.47	52.31	62.96	70.02
COTA TN	716.88	716.83		716.65	715.50	712.50	711.50	713.00	713.00	714.01	714.24	714.78	715.18	715.51
NIVEL TIRANTE	713.77													
DISTANCIAS LINEAS DE RIVERA					18.51		23.03							

3+896.99



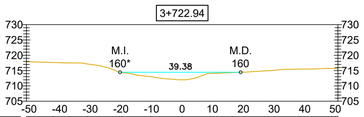
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES		8.42	10.43	10.44	10.11	13.59	10.16	10.23	10.23	10.06	14.89	10.22	10.20	11.44	7.50
DISTANCIAS ACUMULADAS	-73.37	-64.95	-54.53	-44.09	-33.98	-20.39	-10.23	0.00	10.23	20.29	35.18	45.40	55.60	67.03	74.54
COTA TN	716.50	715.50	715.50	715.50	714.49	711.94	711.50	711.00	711.50	711.96	712.50	713.80	714.00	714.50	715.46
NIVEL TIRANTE	712.89														
DISTANCIAS LINEAS DE RIVERA						24.56			36.45						

3+642.77



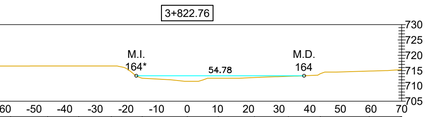
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11
DISTANCIAS PARCIALES		9.83	10.81	10.01	10.14	10.03	10.24	10.84	10.01	10.41	9.33
DISTANCIAS ACUMULADAS	-50.63	-41.00	-30.19	-20.17	-10.03	0.00	10.24	21.08	31.09	41.50	50.83
COTA TN	716.62	718.15	717.07	715.63	714.11	712.99	713.68	715.43	716.50	717.00	717.44
NIVEL TIRANTE	715.10										
DISTANCIAS LINEAS DE RIVERA				15.83		19.30					

3+722.94



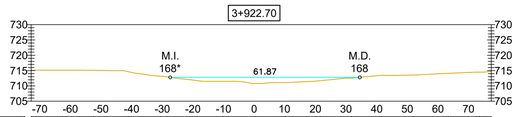
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11
DISTANCIAS PARCIALES		8.69	11.23	10.38	10.34	10.21	16.29	11.99	10.09	10.37	2.11
DISTANCIAS ACUMULADAS	-50.85	-42.16	-30.93	-20.55	-10.21	0.00	16.29	28.28	38.37	48.74	50.85
COTA TN	717.99	717.65	717.16	714.48	713.00	712.00	714.31	715.00	715.50	715.83	715.82
NIVEL TIRANTE	714.44										
DISTANCIAS LINEAS DE RIVERA				20.27		19.11					

3+822.76



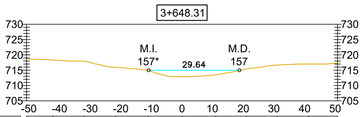
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14
DISTANCIAS PARCIALES		1.92	10.40	12.11	10.14	10.66	10.07	14.71	10.11	11.85	11.05	10.47	15.96	10.14	0.43
DISTANCIAS ACUMULADAS	-50.83	-48.91	-37.69	-25.58	-15.44	-5.38	9.33	19.44	31.29	42.34	53.39	64.86	80.82	90.96	91.39
COTA TN	716.55	716.48	716.50	716.50	716.50	712.50	711.50	712.50	712.73	713.13	714.00	714.84	716.30	716.30	716.30
NIVEL TIRANTE	713.30														
DISTANCIAS LINEAS DE RIVERA					16.64		38.14								

3+922.70



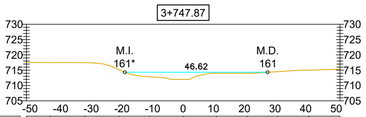
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16
DISTANCIAS PARCIALES		10.09	10.27	11.33	10.55	10.25	10.12	10.14	10.22	11.44	10.02	10.01	10.54	11.15	10.12	3.90
DISTANCIAS ACUMULADAS	-72.74	-62.66	-52.38	-41.05	-30.51	-20.26	-10.14	0.00	10.22	21.65	31.67	41.68	52.23	63.37	73.49	77.40
COTA TN	715.12	715.13	715.09	714.62	713.17	711.94	711.50	710.82	711.07	711.70	712.51	713.44	713.55	714.11	714.50	714.71
NIVEL TIRANTE	712.78															
DISTANCIAS LINEAS DE RIVERA						27.38			34.50							

3+648.31



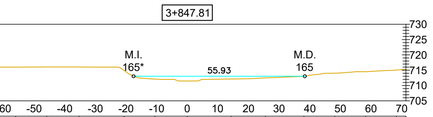
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11
DISTANCIAS PARCIALES		8.61	10.14	10.31	10.70	11.01	10.94	10.06	10.10	10.25	9.40
DISTANCIAS ACUMULADAS	-50.76	-42.15	-32.02	-21.71	-11.01	0.00	10.94	21.00	31.10	41.35	50.76
COTA TN	716.66	718.31	717.89	715.99	715.00	712.90	713.50	715.46	716.65	717.00	717.35
NIVEL TIRANTE	714.96										
DISTANCIAS LINEAS DE RIVERA				10.91		18.73					

3+747.87



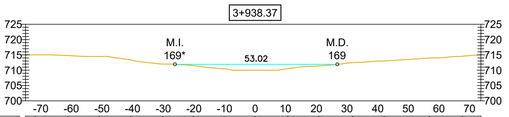
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11
DISTANCIAS PARCIALES		7.75	11.31	11.14	10.07	10.92	10.86	10.01	10.02	10.15	10.14
DISTANCIAS ACUMULADAS	-51.18	-43.43	-32.12	-20.98	-10.92	0.00	10.86	20.88	30.89	41.04	51.18
COTA TN	717.57	717.50	717.44	715.18	712.84	712.00	714.00	714.00	714.50	715.02	715.30
NIVEL TIRANTE	714.33										
DISTANCIAS LINEAS DE RIVERA				19.06		27.56					

3+847.81



PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES		3.27	10.79	10.15	10.54	14.71	10.10	10.52	14.28	11.22	12.57	10.09	10.07	10.07	3.08
DISTANCIAS ACUMULADAS	-70.68	-66.51	-55.72	-45.57	-35.33	-20.62	-10.52	0.00	14.28	25.50	38.08	48.17	58.24	68.31	71.38
COTA TN	716.63	716.01	716.00	716.05	716.04	714.92	712.10	711.48	712.13	712.49	712.99	714.01	714.51	715.05	715.27
NIVEL TIRANTE	713.03														
DISTANCIAS LINEAS DE RIVERA					17.54		38.39								

3+938.37



PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16
DISTANCIAS PARCIALES		3.10	10.67	10.26	10.22	10.46	10.04	10.09	10.10	10.63	10.10	11.08	10.33	14.80	10.70	6.06
DISTANCIAS ACUMULADAS	-74.94	-71.84	-61.17	-50.91	-40.69	-30.23	-20.19	-10.10	0.00	10.63	20.73	31.80	42.13	56.93	67.63	73.69
COTA TN	715.69	715.00	714.79	714.50	713.37	712.00	711.52	710.49	710.00	710.50	711.36	712.48	713.03	714.00	714.57	715.00
NIVEL TIRANTE	711.91															
DISTANCIAS LINEAS DE RIVERA						26.17			26.85							

REFERENCIAS

- Pelo de Agua
- Terreno Natural

Esc:1/1,000

0 10 20 40 80

APRHI Administración Provincial de Recursos Hídricos | Ministerio de SERVICIOS PUBLICOS | GOBIERNO DE LA PROVINCIA DE CÓRDOBA | ENTRE TODOS

OBRA: SERVICIOS PROFESIONALES PARA LA DEFINICIÓN DE LA LÍNEA DE RIBERA EN LA ZONA URBANA DE LA LOCALIDAD DE VILLA GENERAL BELGRANO (DEPARTAMENTO CALAMUCHITA)

Plano N° 0013

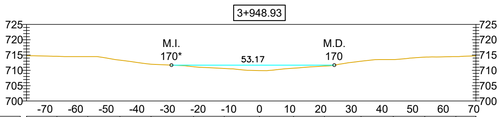
Localidad: Villa General Belgrano

Dpto.: Calamuchita

PLANO: ARROYO EL SAUCE
SECCIONES TRANSVERSALES

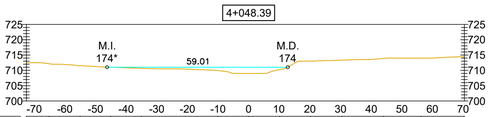
Escala: 1:1000	Fecha: Agosto 2020	Ministro: Ing. Fabian Lopez
Topografia: Consular Consultores Argentinos Asociados S.A.		Secretario de Recursos Hidricos: Ing. Edgar Castelló
Proyecto: Ing. Ramiro M. García		Presidente APRHI: Ing. Juan Pablo Brarda
Dibujo: Ing. Lucia Otero		VOCALES APRHI: Wierzbicky/Plencovich/Herrero/Suaya

3+948.93



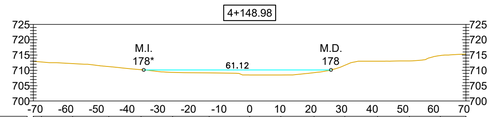
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES		9.93	10.09	10.49	10.15	13.88	10.02	11.49	11.14	10.08	11.94	10.52	10.29	10.15	6.54
DISTANCIAS ACUMULADAS	76.68	66.13	56.04	45.55	35.40	21.51	11.49	0.00	11.14	21.22	33.17	43.69	53.98	64.13	70.67
COTA TN	714.77	714.61	714.50	713.33	712.00	711.18	710.62	709.93	710.71	711.40	713.00	713.53	714.32	714.50	714.73
NIVEL TIRANTE	711.71														
DISTANCIAS LINEAS DE RIVERA					28.73				24.45						

4+048.39



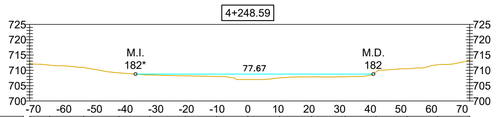
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14
DISTANCIAS PARCIALES		7.41	10.13	10.01	10.01	14.47	10.40	10.14	10.12	10.03	10.27	13.55	12.27	14.15
DISTANCIAS ACUMULADAS	72.89	65.17	55.04	45.03	35.01	20.55	10.14	0.00	10.12	20.16	30.43	43.98	56.25	70.40
COTA TN	712.50	712.17	711.51	711.00	710.65	710.41	709.98	709.00	710.24	713.01	713.33	713.88	713.99	714.47
NIVEL TIRANTE	711.03													
DISTANCIAS LINEAS DE RIVERA					46.21				12.80					

4+148.98



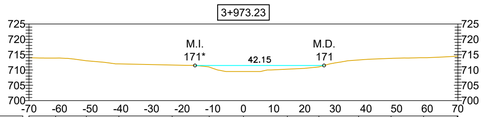
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES		2.68	10.15	11.82	10.51	10.30	11.95	13.22	10.16	10.86	10.05	10.68	10.42	10.08	8.36
DISTANCIAS ACUMULADAS	70.93	67.95	57.80	45.98	35.47	25.17	13.22	0.00	10.16	21.02	31.07	41.75	52.17	62.24	70.61
COTA TN	712.92	712.74	712.21	711.22	710.21	709.32	709.18	708.49	708.49	709.25	711.66	713.00	713.09	714.84	716.32
NIVEL TIRANTE	710.14														
DISTANCIAS LINEAS DE RIVERA					34.57				26.55						

4+248.59



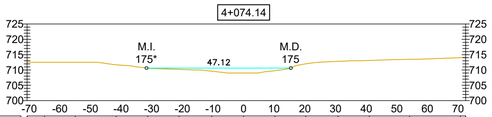
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES		6.56	11.10	11.51	10.07	11.53	10.21	10.20	10.34	10.49	10.96	10.08	10.08	10.01	10.46	6.03
DISTANCIAS ACUMULADAS	71.20	64.64	53.54	42.02	31.95	20.42	10.20	0.00	10.34	20.83	31.80	41.87	51.95	61.96	72.42	78.45
COTA TN	712.19	711.69	710.92	709.18	708.50	708.21	708.00	707.00	707.52	707.90	707.91	709.50	710.53	711.84	713.50	714.47
NIVEL TIRANTE	708.78														
DISTANCIAS LINEAS DE RIVERA					36.65				41.02						

3+973.23



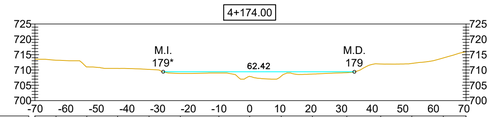
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13
DISTANCIAS PARCIALES		8.70	10.03	10.64	17.38	12.09	11.18	14.32	10.29	12.99	10.59	10.62	10.97	10.24
DISTANCIAS ACUMULADAS	76.02	67.32	57.29	46.65	35.57	23.27	11.18	0.00	14.32	24.61	37.60	48.19	58.81	69.78
COTA TN	713.99	713.88	713.00	712.00	711.62	710.96	709.50	710.26	711.00	713.26	713.79	714.00	714.51
NIVEL TIRANTE	711.47												
DISTANCIAS LINEAS DE RIVERA						15.82			26.33				

4+074.14



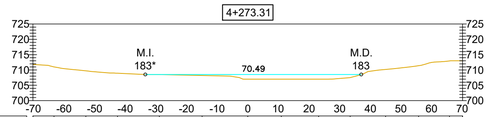
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES		5.68	10.04	13.36	10.30	10.23	10.67	10.42	10.24	10.02	10.55	10.19	13.16	16.59	1.72
DISTANCIAS ACUMULADAS	70.71	65.02	54.98	41.62	31.32	21.09	10.42	0.00	10.24	20.26	30.81	41.01	54.17	70.76	72.48
COTA TN	712.52	712.51	712.51	711.71	710.58	710.19	709.60	709.00	709.76	712.00	712.81	713.10	713.48	714.00	714.10
NIVEL TIRANTE	710.62														
DISTANCIAS LINEAS DE RIVERA						31.69			15.43						

4+174.00



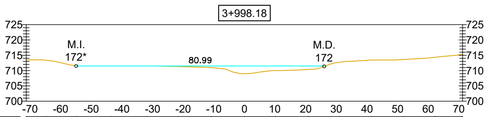
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES		6.88	10.06	10.05	10.24	10.23	12.59	10.04	10.30	10.17	11.24	11.06	10.16	10.28	7.41
DISTANCIAS ACUMULADAS	70.10	63.22	53.16	43.11	32.86	22.63	10.04	0.00	10.30	20.48	31.72	42.78	52.94	63.22	70.64
COTA TN	713.51	713.17	711.00	710.50	710.18	708.85	709.00	707.90	708.00	708.66	709.12	711.95	712.14	713.93	715.96
NIVEL TIRANTE	709.40														
DISTANCIAS LINEAS DE RIVERA						28.23			34.19						

4+273.31



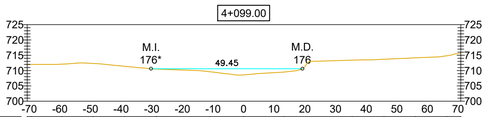
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14
DISTANCIAS PARCIALES		6.89	10.41	10.34	13.65	13.96	14.90	10.94	12.18	10.29	11.58	10.79	10.06	4.31
DISTANCIAS ACUMULADAS	76.15	69.26	58.85	48.51	38.87	24.90	10.94	0.00	10.94	23.12	33.42	45.00	55.78	65.84
COTA TN	711.80	711.00	709.72	708.93	708.50	708.20	707.00	707.00	707.00	707.50	710.17	711.39	712.94	713.60
NIVEL TIRANTE	708.52													
DISTANCIAS LINEAS DE RIVERA						33.44			37.05					

3+998.18



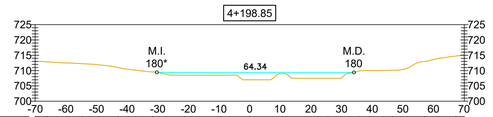
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES		6.50	10.10	11.31	11.43	10.22	10.84	10.84	10.12	10.74	10.21	10.44	10.34	10.39	9.00
DISTANCIAS ACUMULADAS	71.25	64.75	54.64	43.33	31.90	21.68	10.84	0.00	10.12	20.86	31.07	41.51	51.85	62.25	71.25
COTA TN	713.50	713.35	711.50	711.50	711.50	711.35	711.00	709.00	710.00	710.37	712.71	713.44	713.60	714.33	715.32
NIVEL TIRANTE	711.50														
DISTANCIAS LINEAS DE RIVERA					54.94				26.05						

4+099.00



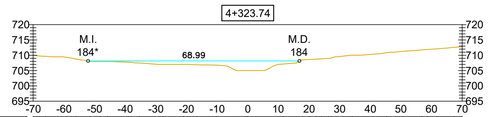
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14
DISTANCIAS PARCIALES	1.31	10.02	10.15	10.23	10.47	17.44	11.04	13.19	22.23	10.40	10.26	10.23	4.57	
DISTANCIAS ACUMULADAS	69.89	68.58	59.32	49.17	38.95	28.48	11.04	0.00	13.19	35.42	45.83	56.09	66.32	70.89
COTA TN	712.00	712.09	712.31	711.44	710.48	709.62	708.60	709.50	713.39	713.70	714.17	714.84	715.60	
NIVEL TIRANTE	710.60													
DISTANCIAS LINEAS DE RIVERA						30.23			19.22					

4+198.85



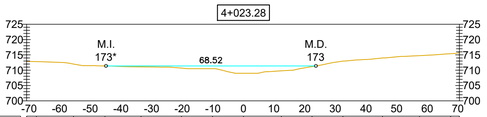
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES		3.92	11.57	11.59	11.35	10.47	10.82	10.34	10.68	14.88	10.16	10.80	10.52	10.25	2.75
DISTANCIAS ACUMULADAS	70.06	66.13	54.56	42.97	31.62	21.15	10.34	0.00	10.68	25.56	35.72	46.53	57.05	67.30	70.06
COTA TN	713.00	712.86	712.25	711.00	709.55	708.50	708.51	707.00	709.00	707.50	709.86	710.12	712.96	714.74	715.19
NIVEL TIRANTE	709.41														
DISTANCIAS LINEAS DE RIVERA						30.29			34.05						

4+323.74



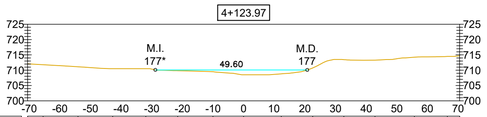
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES		4.04	10.02	10.31	10.25	14.48	10.66	10.33	11.50	12.61	10.08	11.12	11.52	10.51	2.66
DISTANCIAS ACUMULADAS	70.99	66.95	56.93	45.72	35.48	21.00	10.33	0.00	11.50	24.11	34.19	45.31	56.83	67.34	70.01
COTA TN	709.97	709.65	708.75	707.99	707.50	707.00	706.81	705.00	707.14	708.83	710.01	710.82	711.75	712.58	712.77
NIVEL TIRANTE	708.15														
DISTANCIAS LINEAS DE RIVERA						52.13			16.86						

4+023.28



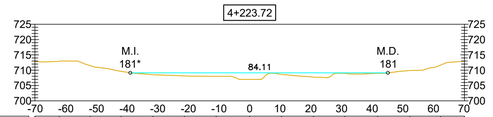
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES		3.17	12.12	10.27	11.79	13.19	10.15	10.09	12.38	10.02	10.08	12.91	12.11	10.15	2.83
DISTANCIAS ACUMULADAS	70.77	67.61	55.48	45.22	33.43	20.24	10.09	0.00	12.38	22.40	32.48	45.39	57.50	67.65	70.48
COTA TN	712.90	712.81	712.00	711.39	711.10	710.70	710.50	709.00	709.79	711.18	712.97	714.00	714.74	715.39	715.68
NIVEL TIRANTE	711.38														
DISTANCIAS LINEAS DE RIVERA						44.86			23.66						

4+123.97



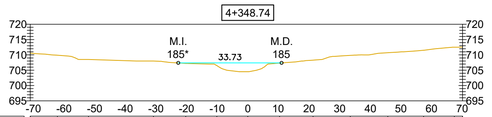
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES		5.04	11.40	11.35	10.80	10.41	11.51	10.02	12.29	10.27	10.17	10.15	12.86	10.78	4.01
DISTANCIAS ACUMULADAS	70.53	65.49	54.09	42.74	31.94	21.53	10.02	0.00	12.29	22.56	32.72	42.88	55.73	66.51	70.53
COTA TN	712.88	711.79	711.12	710.50	710.50	709.84	709.50	708.50	708.81	710.74	713.44	713.28	714.25	714.49	714.67
NIVEL TIRANTE	710.08														
DISTANCIAS LINEAS DE RIVERA						28.83			20.77						

4+223.72



PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES		8.00	10.04	10.08	10.42	10.27	10.38	10.93	10.41	10.40	10.23	10.74	10.54	10.02	7.77
DISTANCIAS ACUMULADAS	70.11	62.11	52.07	41.99	31.57	21.30	10.93	0.00	10.41	20.81	31.04	41.78	52.32	62.34	70.11
COTA TN	712.79	712.93	711.50	709.63	708.52	708.14	708.01	707.00	708.62	707.74	709.00	708.99	709.89	711.67	712.99
NIVEL TIRANTE	709.14														
DISTANCIAS LINEAS DE RIVERA						38.97			45.14						

4+348.74



PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14
DISTANCIAS PARCIALES		8.89	10.14	21.20	10.53	10.17	10.09	10.40	10.92	12.15	12.26	11.68	10.03	2.69
DISTANCIAS ACUMULADAS	71.03	62.14	52.00	30.80	20.26	10.09	0.00	10.40	21.32	33.47	45.73	57.41	67.44	70.13
COTA TN	710.56	709.89	708.50	707.99	707.22	706.50	704.50	707.33	708.27	709.85	710.71	711.50	712.50	712.92
NIVEL TIRANTE	707.38													
DISTANCIAS LINEAS DE RIVERA						22.69			11.04					

REFERENCIAS

- Pelo de Agua
- Terreno Natural

Esc:1/1,000

0 10 20 40 80

OBRA: SERVICIOS PROFESIONALES PARA LA DEFINICIÓN DE LA LÍNEA DE RIBERA EN LA ZONA URBANA DE LA LOCALIDAD DE VILLA GENERAL BELGRANO (DEPARTAMENTO CALAMUCHITA)

Plano N° 0014

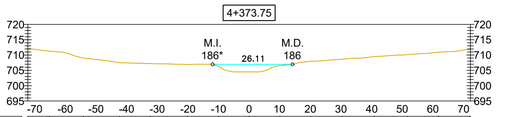
Localidad: Villa General Belgrano

Dpto.: Calamuchita

PLANO: ARROYO EL SAUCE
SECCIONES TRANSVERSALES

Escala: 1:1000	Fecha: Agosto 2020	Ministro: Ing. Fabian Lopez
Topografia: Consular Consultores Argentinos Asociados S.A.		Secretario de Recursos Hidricos: Ing. Edgar Castelló
Proyecto: Ing. Ramiro M. García		Presidente APRHI: Ing. Juan Pablo Brarda
Dibujo: Ing. Lucia Otero		VOCALES APRHI: Wierzbicky/Plencovich/Herrero/Suaya

4+373.75



PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES		7.05	11.07	11.84	10.00	12.18	10.10	10.01	10.02	10.14	10.19	10.55	10.76	10.18	10.15	5.26
DISTANCIAS ACUMULADAS	72.24	65.20	54.13	42.29	32.28	20.11	10.01	0.00	10.02	20.16	30.35	40.90	51.66	61.84	72.00	77.26
COTA TN	712.15	711.27	709.00	707.50	707.22	706.91	706.23	704.50	706.51	708.00	708.64	709.50	710.14	710.91	711.02	711.17
NIVEL TIRANTE	706.95															
DISTANCIAS LINEAS DE RIVERA						11.93	14.18									

4+473.46

PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14
DISTANCIAS PARCIALES		8.26	10.52	10.35	10.64	10.18	10.54	10.39	11.41	12.65	15.68	11.46	10.21	11.30
DISTANCIAS ACUMULADAS	70.87	62.62	52.10	41.75	31.11	20.93	10.39	0.00	11.41	24.05	39.74	51.19	61.40	72.70
COTA TN	716.14	715.61	714.50	713.63	711.50	707.40	705.36	704.00	705.44	705.65	705.93	706.31	706.98	707.94
NIVEL TIRANTE	706.29													
DISTANCIAS LINEAS DE RIVERA							16.21			50.61				

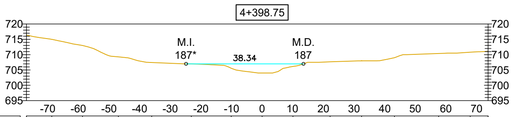
4+575.86

PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16
DISTANCIAS PARCIALES		4.04	10.89	10.35	10.00	10.08	10.09	10.21	10.00	10.53	10.80	10.12	10.76	10.37	10.21	9.68
DISTANCIAS ACUMULADAS	72.47	71.63	60.73	50.38	40.38	30.29	20.21	10.00	0.00	10.53	21.33	31.45	42.21	52.58	62.78	72.46
COTA TN	711.50	711.43	708.89	707.17	706.09	706.00	706.00	704.07	701.99	702.91	705.15	706.54	706.73	706.92	709.10	710.23
NIVEL TIRANTE	704.24															
DISTANCIAS LINEAS DE RIVERA									10.35	18.29						

4+676.13

PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES		12.02	12.16	10.01	10.43	10.48	10.59	14.13	10.06	11.62	10.05	10.49	10.62	7.24	
DISTANCIAS ACUMULADAS	89.98	77.96	65.70	55.69	45.27	34.79	24.20	10.06	0.00	11.62	21.66	32.15	42.77	50.01	
COTA TN	704.11	703.61	703.25	702.90	702.99	703.00	703.00	703.50	700.51	702.90	705.58	706.29	707.15	707.77	
NIVEL TIRANTE	703.03														
DISTANCIAS LINEAS DE RIVERA							62.99			12.17					

4+398.75



PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES		8.29	10.00	11.74	10.87	12.94	13.02	10.09	10.07	12.11	10.30	10.71	14.44	10.29	5.83
DISTANCIAS ACUMULADAS	76.95	68.66	58.66	46.92	36.05	23.11	10.09	0.00	10.07	22.18	32.48	43.19	57.64	67.93	73.75
COTA TN	716.41	715.00	712.99	709.28	707.44	706.99	705.56	704.00	706.15	707.67	707.97	709.00	710.38	710.80	711.10
NIVEL TIRANTE	707.00														
DISTANCIAS LINEAS DE RIVERA							24.83		13.51						

4+498.59

PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES		8.06	10.05	10.69	10.90	10.19	10.28	10.09	10.09	10.56	11.36	10.61	13.10	10.61	4.92
DISTANCIAS ACUMULADAS	70.28	62.20	52.15	41.46	30.56	20.37	10.09	0.00	10.09	20.64	32.00	42.61	55.71	66.33	71.25
COTA TN	714.91	714.65	714.10	713.15	711.91	710.00	704.79	703.64	704.58	705.50	705.57	705.85	706.41	707.46	709.00
NIVEL TIRANTE	705.91														
DISTANCIAS LINEAS DE RIVERA							13.79			43.89					

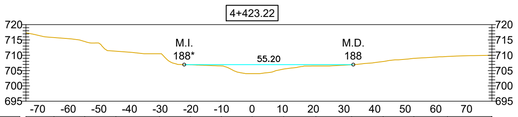
4+600.98

PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14
DISTANCIAS PARCIALES		6.09	10.56	11.58	10.11	10.35	10.94	10.83	10.46	10.08	14.86	10.59	10.19	4.21
DISTANCIAS ACUMULADAS	70.46	64.37	53.81	42.23	32.13	21.77	10.83	0.00	10.46	20.54	35.40	46.00	56.19	60.40
COTA TN	707.27	706.76	706.28	704.90	704.31	704.02	704.87	701.50	702.33	705.19	706.50	706.75	707.00	709.29
NIVEL TIRANTE	704.21													
DISTANCIAS LINEAS DE RIVERA							29.65			14.11				

4+701.07

PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17
DISTANCIAS PARCIALES		3.20	11.97	14.55	10.28	10.46	10.48	10.50	11.65	17.24	10.18	12.13	10.45	10.15	10.37	10.08	8.98
DISTANCIAS ACUMULADAS	122.64	119.43	107.46	92.91	82.63	72.17	61.69	51.20	39.55	22.31	12.13	0.00	10.45	20.61	30.98	41.06	50.04
COTA TN	704.21	704.19	704.14	703.63	702.77	702.50	702.46	702.49	702.55	702.62	703.00	700.50	702.00	705.09	706.40	707.00	707.56
NIVEL TIRANTE	703.13																
DISTANCIAS LINEAS DE RIVERA									87.86			14.16					

4+423.22



PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES		9.16	10.03	10.18	14.25	10.08	10.11	10.03	10.30	10.52	11.66	10.28	10.03	10.97	14.38
DISTANCIAS ACUMULADAS	78.85	69.69	59.65	44.47	30.22	20.14	10.03	0.00	10.30	20.83	32.49	42.77	52.80	63.77	78.15
COTA TN	717.33	715.78	714.50	711.33	710.50	706.88	706.52	704.00	705.50	706.50	706.91	707.95	709.00	709.61	710.00
NIVEL TIRANTE	706.94														
DISTANCIAS LINEAS DE RIVERA							22.16		33.04						

4+523.07

PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16
DISTANCIAS PARCIALES		9.23	12.25	10.87	10.22	11.99	10.21	10.05	10.06	10.03	10.95	10.96	10.79	10.03	10.02	9.10
DISTANCIAS ACUMULADAS	84.81	75.58	63.33	52.46	42.25	32.25	20.26	10.05	0.00	10.06	20.09	31.05	42.00	52.79	62.82	72.84	81.94
COTA TN	714.35	714.24	713.49	712.50	711.45	709.14	705.00	703.00	703.78	704.00	705.01	705.48	706.00	706.48	707.32	710.02
NIVEL TIRANTE	705.37															
DISTANCIAS LINEAS DE RIVERA							10.53			40.60						

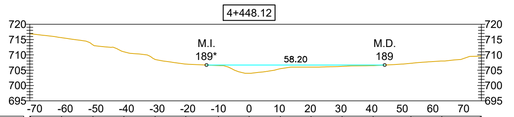
4+626.08

PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16
DISTANCIAS PARCIALES		1.05	11.71	10.15	10.80	10.01	10.17	12.96	11.95	10.27	10.27	10.38	10.45	10.57	10.51	7.89
DISTANCIAS ACUMULADAS	88.98	88.93	76.30	66.16	55.36	45.35	35.18	22.22	10.27	0.00	10.27	20.65	31.10	41.67	52.18	60.08
COTA TN	705.53	705.50	705.11	704.50	704.00	703.74	703.50	704.52	701.09	702.00	704.66	705.75	706.66	707.55	708.00
NIVEL TIRANTE	704.10															
DISTANCIAS LINEAS DE RIVERA							47.87			15.18						

4+725.95

PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17
DISTANCIAS PARCIALES		18.07	16.49	13.83	11.22	12.96	10.33	10.28	11.07	10.26	10.15	10.19	11.39	11.32	11.15	10.00	6.46
DISTANCIAS ACUMULADAS	134.83	116.76	100.27	86.45	75.23	62.27	51.94	41.67	30.60	20.34	10.19	0.00	11.39	22.71	33.86	43.86	50.32
COTA TN	704.09	704.01	702.96	701.95	701.94	702.00	702.10	702.38	702.50	702.49	703.00	700.00	702.75	705.77	706.65	707.00	707.14
NIVEL TIRANTE	703.25																
DISTANCIAS LINEAS DE RIVERA							103.07					13.21					

4+448.12



PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES		0.25	10.14	10.21	10.12	10.18	10.01	10.66	10.02	10.20	10.02	10.12	10.15	12.34	10.08	12.55
DISTANCIAS ACUMULADAS	71.90	71.65	61.21	51.00	40.88	30.69	20.68	10.02	0.00	10.20	20.22	30.34	40.49	52.83	62.91	75.46
COTA TN	716.89	715.61	713.28	711.00	708.50	707.00	706.50	704.00	705.50	706.00	706.25	706.50	707.25	708.00	709.58
NIVEL TIRANTE	706.68														
DISTANCIAS LINEAS DE RIVERA							13.91			44.29					

4+549.71

PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16
DISTANCIAS PARCIALES		5.98	10.36	10.39	10.35	10.61	10.09	10.24	10.38	10.22	10.24	10.16	20.14	10.28	10.89	6.47
DISTANCIAS ACUMULADAS	78.40	72.42	62.06	51.67	41.32	30.71	20.62	10.38	0.00	10.22	20.47	30.63	50.77	61.05	71.94	78.40
COTA TN	712.69	712.48	712.03	710.80	709.49	707.53	705.00	702.99	702.50	703.25	704.35	705.80	706.72	706.91	709.41	710.03
NIVEL TIRANTE	704.96															
DISTANCIAS LINEAS DE RIVERA							20.20			24.21						

4+651.12

PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14
DISTANCIAS PARCIALES		10.27	13.79	10.88	11.42	12.32	10.60	10.09	10.12	10.42	10.49	10.59	13.84	4.67
DISTANCIAS ACUMULADAS	96.48	86.21	79.21	65.42	54.54	43.12	30.80	20.20	10.12	0.00	10.42	20.91	31.50	45.33	50.00
COTA TN	704.96	704.99	704.50	703.46	703.38	703.29	703.00	704.00	701.00	703.09	704.80	706.00	707.32	707.65
NIVEL TIRANTE	703.89													
DISTANCIAS LINEAS DE RIVERA							57.93			16.58				

REFERENCIAS

- Pelo de Agua
- Terreno Natural

Esc:1/1,000

0 10 20 40 80

OBRA: SERVICIOS PROFESIONALES PARA LA DEFINICIÓN DE LA LÍNEA DE RIBERA EN LA ZONA URBANA DE LA LOCALIDAD DE VILLA GENERAL BELGRANO (DEPARTAMENTO CALAMUCHITA)

Plano N° 0015

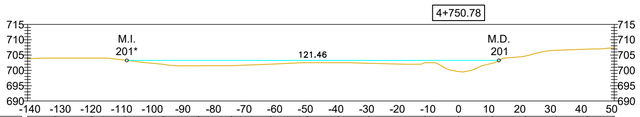
Localidad: Villa General Belgrano

Dpto.: Calamuchita

PLANO: ARROYO EL SAUCE SECCIONES TRANSVERSALES

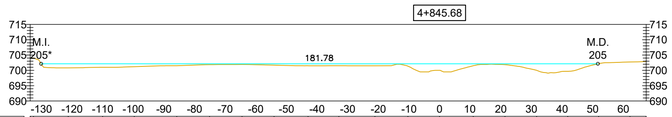
Escala: 1:1000	Fecha: Agosto 2020	Ministro: Ing. Fabian Lopez
Topografia: Consular Consultores Argentinos Asociados S.A.		Secretario de Recursos Hidricos: Ing. Edgar Castelló
Proyecto: Ing. Ramiro M. García		Presidente APRHI: Ing. Juan Pablo Brarda
Dibujo: Ing. Lucia Otero		VOCALES APRHI: Wierzbicky/Plencovich/Herrero/Suaya

4+750.78



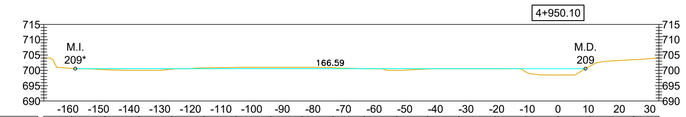
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18
DISTANCIAS PARCIALES		8.95	12.11	10.80	12.30	11.60	10.74	12.89	11.97	10.02	10.09	18.33	10.88	11.09	10.73	10.07	10.06	8.86
DISTANCIAS ACUMULADAS	140.68	131.73	119.62	108.82	96.52	84.92	74.19	61.29	49.32	39.30	29.21	10.88	0.00	11.09	21.82	31.89	41.95	50.81
COTA TN	703.87	704.00	704.00	703.30	702.00	701.50	701.54	702.02	702.50	702.50	702.30	702.50	699.62	702.35	704.68	706.54	706.92	707.38
NIVEL TIRANTE	703.24																	
DISTANCIAS LINEAS DE RIVERA	108.29												13.17					

4+845.68



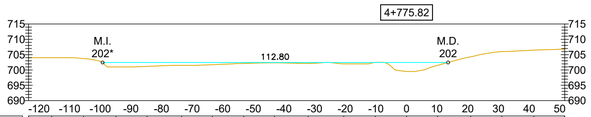
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20
DISTANCIAS PARCIALES		09	11.32	11.25	10.30	13.91	10.69	10.60	10.46	11.09	10.09	11.77	10.78	10.32	10.99	10.37	10.35	10.13	10.11	10.23	5.28
DISTANCIAS ACUMULADAS	192.95	192.95	181.86	170.61	160.31	146.41	135.72	125.12	114.52	103.43	92.34	82.25	70.48	59.16	48.84	37.85	27.50	17.37	7.24	2.00
COTA TN	704.00	704.00	700.82	701.00	701.20	701.50	701.86	701.92	701.70	701.50	701.50	701.50	701.36	700.00	701.50	701.87	700.00	699.70	702.19	702.73	702.88
NIVEL TIRANTE	702.14																				
DISTANCIAS LINEAS DE RIVERA	130.09													51.69							

4+950.10



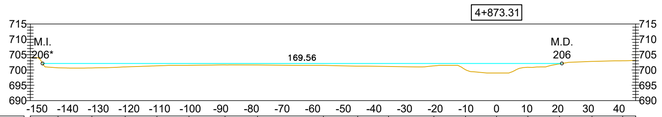
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20
DISTANCIAS PARCIALES		9.04	10.92	11.05	10.59	10.70	10.47	11.32	10.19	10.12	10.19	10.63	10.05	10.21	11.91	10.05	10.44	10.51	14.19	8.25
DISTANCIAS ACUMULADAS	167.87	158.83	147.91	136.86	126.27	115.57	105.10	93.78	83.60	73.48	63.29	52.66	42.61	32.40	20.49	10.44	0.00	10.51	24.70	32.95
COTA TN	704.00	700.84	700.22	700.00	700.34	700.81	700.97	701.00	701.00	700.92	700.50	700.00	700.45	700.50	700.50	699.45	698.48	701.42	703.50	704.15
NIVEL TIRANTE	700.56																			
DISTANCIAS LINEAS DE RIVERA	157.61																8.98			

4+775.82



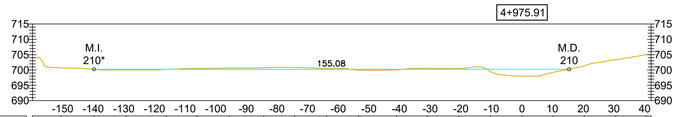
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18
DISTANCIAS PARCIALES		7.53	10.40	10.63	10.13	11.28	10.05	10.23	10.02	11.02	11.61	10.29	10.22	10.12	10.84	10.15	10.46	10.07
DISTANCIAS ACUMULADAS	123.41	115.87	105.47	94.84	84.71	73.43	63.38	53.16	43.14	32.11	20.51	10.22	0.00	10.12	20.96	31.11	41.57	51.65
COTA TN	704.00	704.00	703.73	701.00	701.17	701.50	701.73	702.12	702.33	702.15	702.00	702.50	699.50	701.50	704.31	706.00	706.50	706.81
NIVEL TIRANTE	702.43																	
DISTANCIAS LINEAS DE RIVERA	99.25												13.55					

4+873.31



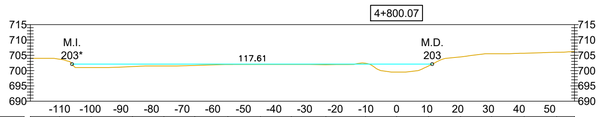
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
DISTANCIAS PARCIALES		9.06	11.05	10.86	10.39	10.47	11.77	10.60	21.51	11.20	10.05	14.82	10.33	10.13	10.22	10.32	10.61	10.03	4.22
DISTANCIAS ACUMULADAS	152.23	143.17	132.12	121.26	110.89	100.40	88.64	78.04	56.53	45.33	35.28	20.46	10.13	0.00	10.22	20.55	31.15	41.18	45.40
COTA TN	704.00	700.71	700.67	701.00	701.36	701.52	701.64	701.63	701.50	701.25	701.15	701.33	700.08	699.00	700.88	702.00	702.79	703.00	703.14
NIVEL TIRANTE	702.12																		
DISTANCIAS LINEAS DE RIVERA	148.22													21.34					

4+975.91



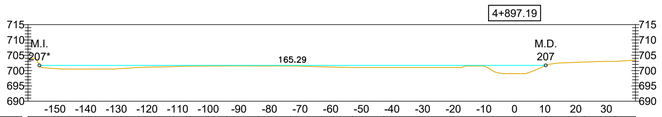
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21
DISTANCIAS PARCIALES		9.30	10.78	10.49	13.13	10.03	10.45	11.27	10.14	10.46	10.44	12.30	10.04	10.37	10.25	10.37	10.12	10.26	10.15	10.02	1.59
DISTANCIAS ACUMULADAS	159.81	150.51	139.73	129.24	116.11	106.08	95.63	84.36	74.23	63.77	53.33	41.03	30.99	20.62	10.37	0.00	10.12	20.38	30.53	40.55	42.14
COTA TN	704.00	700.66	700.22	700.00	700.19	700.50	700.64	700.74	700.83	700.51	699.94	700.00	700.52	700.50	699.50	697.99	699.20	701.35	703.33	705.00	706.08
NIVEL TIRANTE	700.22																				
DISTANCIAS LINEAS DE RIVERA	139.72													15.36							

4+800.07



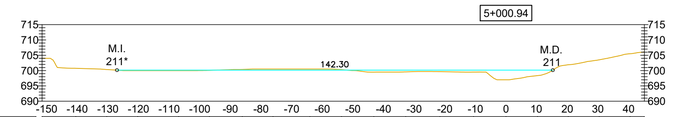
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18
DISTANCIAS PARCIALES		9.57	10.25	13.53	10.27	10.08	10.82	10.65	10.07	11.28	12.91	10.15	10.41	10.47	10.15	10.62	10.61	5.83
DISTANCIAS ACUMULADAS	119.58	110.01	99.76	86.23	75.96	65.88	55.07	44.42	34.34	23.06	10.15	0.00	10.41	20.88	31.03	41.66	52.27	58.09
COTA TN	704.00	703.69	700.99	701.31	701.50	701.68	701.99	702.00	702.00	701.91	702.38	699.50	701.50	704.46	705.50	705.65	705.99	706.22
NIVEL TIRANTE	702.11																	
DISTANCIAS LINEAS DE RIVERA	105.96												11.65					

4+897.19



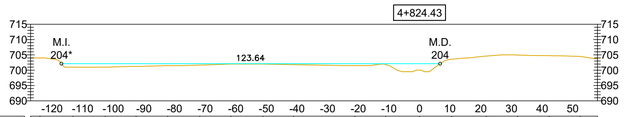
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20
DISTANCIAS PARCIALES		8.74	10.98	10.65	10.90	10.51	13.09	10.26	10.56	10.19	10.11	10.13	12.56	10.02	10.14	10.00	10.23	12.79	10.03	6.40
DISTANCIAS ACUMULADAS	158.94	150.11	139.12	128.47	117.57	107.06	93.97	83.71	73.15	62.96	52.86	42.72	30.16	20.15	10.00	0.00	10.23	23.01	33.05	39.45
COTA TN	704.00	700.67	700.50	700.66	701.15	701.44	701.51	701.51	701.50	701.24	701.00	700.99	701.00	701.00	701.50	699.00	701.70	702.79	703.00	703.45
NIVEL TIRANTE	701.68																			
DISTANCIAS LINEAS DE RIVERA	155.12													10.17						

5+000.94



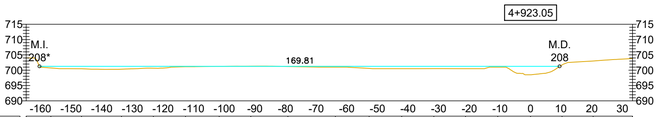
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20
DISTANCIAS PARCIALES		11.02	10.09	10.11	13.37	10.05	10.73	10.02	12.04	10.33	10.53	10.43	11.15	10.99	10.60	10.27	10.05	10.12	10.06	4.66
DISTANCIAS ACUMULADAS	151.46	140.45	130.35	120.24	106.87	96.83	86.10	76.08	64.04	53.71	43.18	32.74	21.59	10.60	0.00	10.27	20.32	30.44	40.50	45.16
COTA TN	704.00	700.74	700.33	700.00	700.00	700.08	700.35	700.50	700.50	700.30	699.49	699.58	699.66	699.50	697.00	698.36	701.90	703.50	705.50	706.04
NIVEL TIRANTE	700.15																			
DISTANCIAS LINEAS DE RIVERA	127.01													15.29						

4+824.43



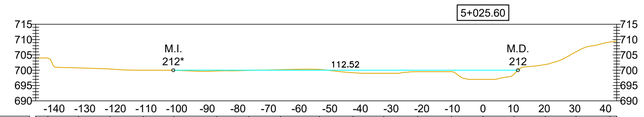
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18
DISTANCIAS PARCIALES		3.03	10.83	10.49	10.10	10.26	10.52	10.17	10.47	10.02	20.01	10.05	11.04	10.48	11.26	10.22	10.36	10.04	5.70
DISTANCIAS ACUMULADAS	126.88	123.96	113.13	102.64	92.54	82.28	71.76	61.59	51.12	41.10	21.09	11.04	0.00	10.48	21.75	31.97	42.33	52.37	58.07
COTA TN	704.00	704.00	700.99	701.00	701.23	701.50	701.66	702.00	702.00	701.81	701.50	701.83	700.01	703.58	704.60	704.94	704.75	704.49	703.70
NIVEL TIRANTE	702.12																		
DISTANCIAS LINEAS DE RIVERA	116.92												6.72						

4+923.05



PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
DISTANCIAS PARCIALES		8.06	10.02	13.04	10.42	10.47	11.01	10.32	12.10	15.50	11.03	10.64	10.48	10.33	10.54	10.72	10.28	10.14	12.88
DISTANCIAS ACUMULADAS	164.67	156.62	146.60	133.55	123.14	112.67	101.66	91.33	79.23	63.74	52.70	42.06	31.58	21.25	10.72	0.00	10.28	20.42	33.30
COTA TN	704.00	700.73	700.48	700.32	700.65	701.13	701.23	701.29	701.20	701.00	700.58	700.50	700.51	700.50	701.01	698.50	701.72	703.00	703.79
NIVEL TIRANTE	701.26																		
DISTANCIAS LINEAS DE RIVERA	160.32													9.49					

5+025.60



PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20
DISTANCIAS PARCIALES		3.96	10.03	10.25	10.82	10.03	13.99	10.48	10.35	12.70	10.98	10.02	11.05	11.06	10.30	10.10	10.26	10.00	11.08	2.21
DISTANCIAS ACUMULADAS	145.69	142.07	132.03	121.78	110.96	100.93	86.94	76.46	66.11	53.41	42.43	32.42	21.36	10.30	0.00	10.10	20.36	30.36	41.44	43.65
COTA TN	704.00	703.96	700.74	700.39	700.00	699.99	699.74	699.96	700.16	700.24	699.18	698.99	699.50	699.50	697.00	698.70	701.85	706.00	709.18	708.34
NIVEL TIRANTE	700.00																			
DISTANCIAS LINEAS DE RIVERA	101.13													11.39						

REFERENCIAS

- Pelo de Agua
- Terreno Natural

Esc:1/1,000

0 10 20 40 80

OBRA: SERVICIOS PROFESIONALES PARA LA DEFINICIÓN DE LA LÍNEA DE RIBERA EN LA ZONA URBANA DE LA LOCALIDAD DE VILLA GENERAL BELGRANO (DEPARTAMENTO CALAMUCHITA)

Plano N° 0016

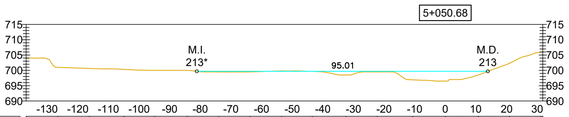
Localidad: Villa General Belgrano

Dpto.: Calamuchita

PLANO: ARROYO EL SAUCE SECCIONES TRANSVERSALES

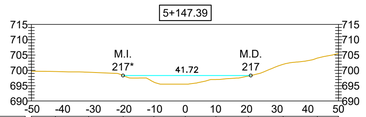
Escala: 1:1000	Fecha: Agosto 2020	Ministro: Ing. Fabian Lopez
Topografía: Consular Consultores Argentinos Asociados S.A.		Secretario de Recursos Hídricos: Ing. Edgar Castelló
Proyecto: Ing. Ramiro M. García		Presidente APRHI: Ing. Juan Pablo Brarda
Dibujo: Ing. Lucia Otero		VOCALES APRHI: Wierzbicky/Plencovich/Herrero/Suaya

5+050.68



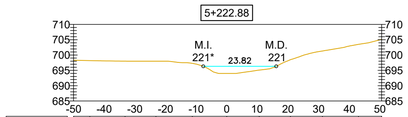
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17
DISTANCIAS PARCIALES		10.37	10.30	11.27	10.02	10.64	10.30	10.23	10.25	10.01	11.02	10.25	11.55	10.65	10.82	10.10	10.27
DISTANCIAS ACUMULADAS	-136.85	-126.48	-116.18	-104.91	-94.89	-84.25	-73.95	-63.72	-53.47	-43.46	-32.44	-22.19	-10.65	0.00	10.82	20.92	31.18
COTA TN	704.00	700.98	700.63	700.32	700.00	700.00	699.48	699.51	699.82	699.67	698.47	699.50	696.91	696.50	698.50	702.30	705.92
NIVEL TIRANTE	699.70																
DISTANCIAS LINEAS DE RIVERA	81.12													13.88			

5+147.39



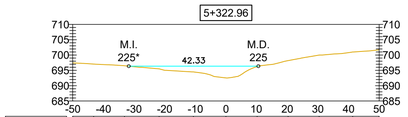
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11
DISTANCIAS PARCIALES		7.82	10.84	11.31	10.00	10.27	10.02	10.56	11.36	11.17	6.89
DISTANCIAS ACUMULADAS	-50.55	-42.43	-31.59	-20.28	-10.27	0.00	10.02	20.58	31.94	43.11	50.01
COTA TN	699.71	699.62	699.38	698.29	698.17	695.50	697.01	698.16	701.97	704.00	705.54
NIVEL TIRANTE	698.32										
DISTANCIAS LINEAS DE RIVERA	20.35						21.37				

5+222.88



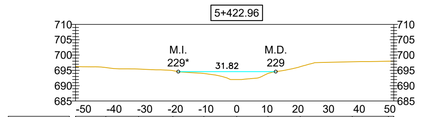
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11
DISTANCIAS PARCIALES		5.33	11.48	10.10	11.84	11.27	10.59	10.17	10.48	11.76	7.59
DISTANCIAS ACUMULADAS	-50.62	-44.70	-33.21	-23.11	-11.27	0.00	10.59	20.76	31.25	43.00	50.59
COTA TN	698.31	698.18	698.01	698.00	697.30	694.00	695.09	698.48	701.32	703.50	705.10
NIVEL TIRANTE	696.31										
DISTANCIAS LINEAS DE RIVERA	7.66						16.16				

5+322.96



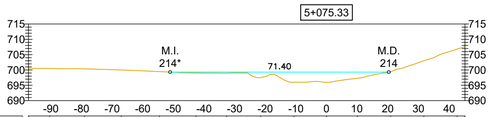
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11
DISTANCIAS PARCIALES		6.83	10.05	11.33	11.17	10.66	10.18	10.08	10.14	10.96	8.63
DISTANCIAS ACUMULADAS	-50.03	-43.20	-33.15	-21.82	-10.66	0.00	10.18	20.27	30.41	41.37	50.00
COTA TN	697.44	697.05	696.50	695.50	694.50	692.53	696.24	698.17	699.98	701.00	701.69
NIVEL TIRANTE	696.36										
DISTANCIAS LINEAS DE RIVERA	31.74						10.58				

5+422.96



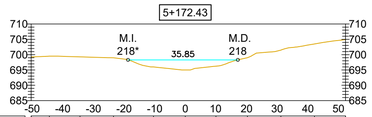
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11
DISTANCIAS PARCIALES		9.88	10.69	11.19	10.12	10.72	10.20	10.53	16.98	11.81	1.77
DISTANCIAS ACUMULADAS	-52.61	-42.73	-32.04	-20.85	-10.72	0.00	10.20	20.74	37.71	49.52	51.29
COTA TN	696.39	695.91	695.43	694.92	694.00	692.00	694.00	696.20	697.81	698.88	698.88
NIVEL TIRANTE	694.59										
DISTANCIAS LINEAS DE RIVERA	19.08						12.75				

5+075.33



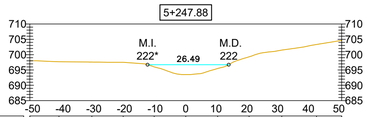
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES		6.92	11.33	12.03	12.45	11.98	10.03	11.08	10.84	10.65	10.06	10.87	10.85	10.84	2.58
DISTANCIAS ACUMULADAS	-97.31	-90.39	-79.06	-67.03	-54.58	-42.60	-32.57	-21.49	-10.65	0.00	10.06	20.93	31.78	42.62	45.20
COTA TN	700.51	700.50	700.37	700.00	699.46	699.00	698.95	697.50	696.00	696.00	697.27	699.42	703.00	706.81	707.55
NIVEL TIRANTE	699.30														
DISTANCIAS LINEAS DE RIVERA	51.06										20.34				

5+172.43



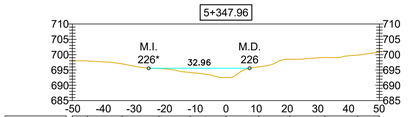
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11
DISTANCIAS PARCIALES		5.95	10.00	10.95	13.04	10.40	10.00	10.27	10.95	10.95	10.12
DISTANCIAS ACUMULADAS	-50.33	-44.38	-34.38	-23.44	-10.40	0.00	10.00	20.27	31.22	42.17	52.29
COTA TN	699.27	699.50	699.28	698.97	696.00	695.00	696.25	699.00	701.49	703.50	704.91
NIVEL TIRANTE	698.29										
DISTANCIAS LINEAS DE RIVERA	18.69						17.16				

5+247.88



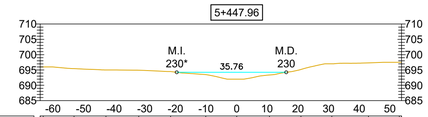
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11
DISTANCIAS PARCIALES		9.52	10.74	10.22	10.12	10.32	10.42	10.27	10.65	11.35	8.23
DISTANCIAS ACUMULADAS	-50.91	-41.39	-30.65	-20.44	-10.32	0.00	10.42	20.69	31.34	42.69	50.91
COTA TN	696.04	697.68	697.58	697.50	696.00	693.50	695.49	699.29	701.50	703.32	704.65
NIVEL TIRANTE	696.72										
DISTANCIAS LINEAS DE RIVERA	12.46						14.03				

5+347.96



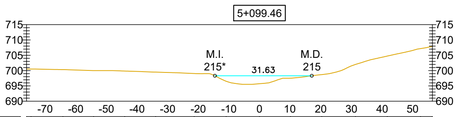
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11
DISTANCIAS PARCIALES		8.90	11.37	12.03	10.16	11.71	10.70	10.09	11.46	10.67	7.15
DISTANCIAS ACUMULADAS	-50.17	-45.27	-33.90	-21.87	-11.71	0.00	10.70	20.79	32.25	42.92	50.07
COTA TN	699.00	697.94	697.00	695.48	694.20	692.50	696.00	698.50	699.05	699.85	700.66
NIVEL TIRANTE	695.56										
DISTANCIAS LINEAS DE RIVERA	25.25						7.72				

5+447.96



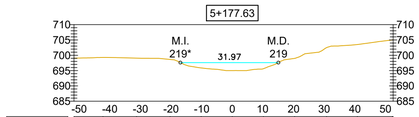
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13
DISTANCIAS PARCIALES		11.01	10.06	10.42	10.71	10.40	11.49	10.09	10.69	10.28	10.07	11.96	10.08	0.72
DISTANCIAS ACUMULADAS	-54.18	-43.17	-33.11	-22.69	-11.98	-1.58	-10.09	0.00	10.69	20.98	31.05	43.01	53.09	53.82
COTA TN	696.00	696.00	695.44	695.00	694.92	694.50	693.49	692.00	693.36	695.17	697.01	697.31	697.59	697.59
NIVEL TIRANTE	694.23													
DISTANCIAS LINEAS DE RIVERA	19.58						16.18							

5+099.46



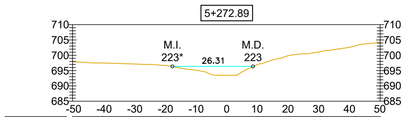
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
DISTANCIAS PARCIALES		1.47	10.42	10.01	10.16	10.08	12.60	10.44	10.88	10.10	10.23	10.98	10.38	10.87	3.86
DISTANCIAS ACUMULADAS	-64.86	-74.60	-64.17	-54.16	-44.00	-33.92	-21.32	-10.88	0.00	10.10	20.33	31.31	41.69	52.56	56.42
COTA TN	700.93	700.50	700.31	700.00	699.85	699.50	699.03	696.50	695.71	697.51	698.69	702.00	704.74	707.18	707.87
NIVEL TIRANTE	698.31														
DISTANCIAS LINEAS DE RIVERA	14.57								17.07						

5+177.63



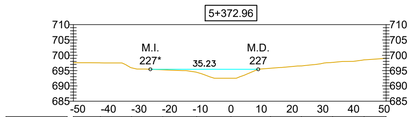
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11
DISTANCIAS PARCIALES		9.46	10.95	10.95	10.17	10.16	10.15	10.20	10.41	10.06	11.44	10.28
DISTANCIAS ACUMULADAS	-51.68	-42.22	-31.27	-20.32	-10.16	0.00	10.15	20.35	30.76	40.82	52.26	53.53
COTA TN	699.03	699.29	699.07	698.63	695.86	695.00	695.61	698.98	702.50	703.50	705.07	705.07
NIVEL TIRANTE	697.60											
DISTANCIAS LINEAS DE RIVERA	16.93						15.05					

5+272.89



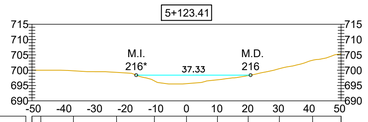
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10
DISTANCIAS PARCIALES		9.84	19.05	10.57	10.88	10.13	10.37	10.18	11.17	8.23
DISTANCIAS ACUMULADAS	-50.34	-40.50		-21.45	-10.88	0.00	10.13	20.50	30.68	41.85	50.08
COTA TN	697.91	697.50		696.75	695.22	693.46	697.00	700.00	701.24	703.00	704.27
NIVEL TIRANTE	696.35										
DISTANCIAS LINEAS DE RIVERA	17.74						8.56				

5+372.96



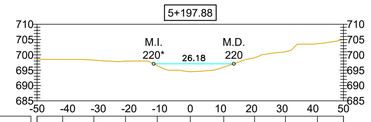
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11
DISTANCIAS PARCIALES		8.84	10.15	10.19	11.07	11.21	12.88	10.12	10.20	10.27	7.19
DISTANCIAS ACUMULADAS	-51.47	-42.62	-32.48	-22.29	-11.21	0.00	12.88	23.00	33.19	43.46	50.65
COTA TN	697.57	697.52	695.90	695.24	694.44	692.50	695.77	696.52	697.66	698.50	699.03
NIVEL TIRANTE	695.42										
DISTANCIAS LINEAS DE RIVERA	26.32						8.91				

5+123.41



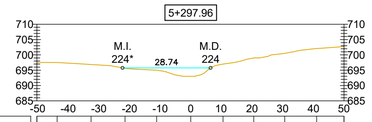
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11
DISTANCIAS PARCIALES		2.88	10.65	14.08	12.35	10.48	10.08	10.05	10.17	10.85	9.30
DISTANCIAS ACUMULADAS	-50.45	-47.57	-36.92	-22.84	-10.48	0.00	10.08	20.13	30.30	41.16	50.45
COTA TN	700.66	700.00	699.81	699.28	696.50	695.60	696.86	698.25	700.50	703.24	705.34
NIVEL TIRANTE	698.38										
DISTANCIAS LINEAS DE RIVERA	16.42						20.92				

5+197.88



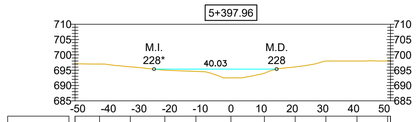
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11
DISTANCIAS PARCIALES		8.37	10.19	10.33	10.34	10.81	10.92	10.07	10.08	10.43	8.53
DISTANCIAS ACUMULADAS	-50.02	-41.65	-31.47	-21.14	-10.81	0.00	10.92	20.99	31.07	41.50	50.02
COTA TN	698.53	698.50	698.30	697.97	696.50	694.50	695.98	699.07	701.00	703.64	705.02
NIVEL TIRANTE	697.08										
DISTANCIAS LINEAS DE RIVERA	11.95						14.22				

5+297.96



PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11
DISTANCIAS PARCIALES		6.60	11.07	11.11	10.31	11.14	10.53	10.04	10.09	10.44	8.93
DISTANCIAS ACUMULADAS	-50.23	-43.63	-32.56	-21.45	-11.14	0.00	10.53	20.58	30.67	41.11	50.04
COTA TN	697.50	697.50	696.85	695.63	695.00	693.00	697.00	699.00	700.50	702.07	702.76
NIVEL TIRANTE	695.75										
DISTANCIAS LINEAS DE RIVERA	22.26						6.48				

5+397.96



PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11
DISTANCIAS PARCIALES		8.00	10.03	11.28	10.14	11.46	10.90	10.05	10.03	10.15	10.01
DISTANCIAS ACUMULADAS	-50.91	-42.91	-32.88	-21.60	-11.46	0.00	10.90	20.95	30.98	41.14	51.15
COTA TN	697.09	697.00	696.11	695.00	694.61	692.50	694.00	696.07	698.00	698.00	698.11
NIVEL TIRANTE	695.34										
DISTANCIAS LINEAS DE RIVERA	25.11						14.91				

REFERENCIAS

- Pelo de Agua
- Terreno Natural

Esc:1/1,000

0 10 20 40 80

APRHI Administración Provincial de Recursos Hídricos | Ministerio de SERVICIOS PUBLICOS | GOBIERNO DE LA PROVINCIA DE CÓRDOBA | ENTRE TODOS

OBRA: SERVICIOS PROFESIONALES PARA LA DEFINICIÓN DE LA LÍNEA DE RIBERA EN LA ZONA URBANA DE LA LOCALIDAD DE VILLA GENERAL BELGRANO (DEPARTAMENTO CALAMUCHITA)

Plano N° 0017

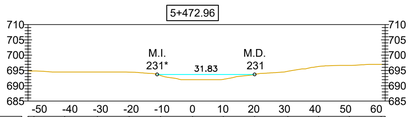
Localidad: Villa General Belgrano

Dpto.: Calamuchita

PLANO: ARROYO EL SAUCE
SECCIONES TRANSVERSALES

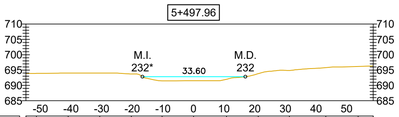
Escala: 1:1000	Fecha: Agosto 2020	Ministro: Ing. Fabian Lopez
Topografia: Consular Consultores Argentinos Asociados S.A.		Secretario de Recursos Hidricos: Ing. Edgar Castelló
Proyecto: Ing. Ramiro M. García		Presidente APRHI: Ing. Juan Pablo Brarda
Dibujo: Ing. Lucia Otero		VOCALES APRHI: Wierzbicky/Plencovich/Herrero/Suaya

5+472.96



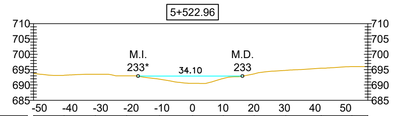
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14
DISTANCIAS PARCIALES	1.95	10.04	10.65	10.38	10.27	10.43	10.04	10.23	10.84	10.04	10.06	10.37	1.28	
DISTANCIAS ACUMULADAS	-51.78	-51.78	-41.74	-31.09	-20.71	-10.43	0.00	10.04	20.27	31.11	41.14	51.20	61.57	62.85
COTA TN	694.82	694.82	694.50	694.49	694.44	693.35	692.00	692.08	693.68	694.73	696.30	696.65	697.01	697.00
NIVEL TIRANTE	693.68													
DISTANCIAS LINEAS DE RIVERA	11.54					20.28								

5+497.96



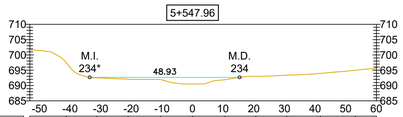
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13
DISTANCIAS PARCIALES	3.44	10.37	10.33	10.31	10.00	10.29	10.76	10.37	10.17	11.88	10.53	4.92	
DISTANCIAS ACUMULADAS	-54.75	-51.31	-40.93	-30.61	-20.29	-10.29	0.00	10.76	21.14	31.31	43.19	53.72	58.63
COTA TN	693.90	693.91	694.00	694.01	693.70	691.49	691.50	691.97	693.83	694.87	695.79	696.18	696.34
NIVEL TIRANTE	692.84												
DISTANCIAS LINEAS DE RIVERA					16.67		16.93						

5+522.96



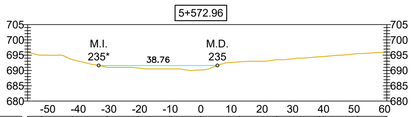
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12
DISTANCIAS PARCIALES	9.97	10.16	10.23	10.75	10.78	10.05	10.07	10.30	11.57	10.04	5.21	
DISTANCIAS ACUMULADAS	-51.90	-41.93	-31.76	-21.53	-10.78	0.00	10.05	20.13	30.43	42.00	52.04	57.25
COTA TN	693.75	693.14	693.50	693.00	691.86	690.52	692.11	693.64	694.76	695.50	695.99	696.00
NIVEL TIRANTE	692.88											
DISTANCIAS LINEAS DE RIVERA					17.78		16.32					

5+547.96



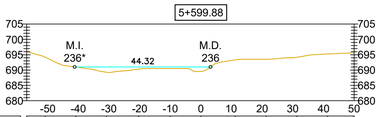
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12
DISTANCIAS PARCIALES	11.90	10.02	10.17	10.58	10.47	10.59	10.01	10.18	10.94	11.40	6.93	
DISTANCIAS ACUMULADAS	-53.14	-41.24	-31.22	-21.05	-10.47	0.00	10.59	20.60	30.79	41.72	53.12	60.05
COTA TN	701.75	697.50	692.49	692.09	692.00	690.50	691.93	693.00	693.38	693.99	695.00	695.67
NIVEL TIRANTE	692.66											
DISTANCIAS LINEAS DE RIVERA					33.55		15.37					

5+572.96



PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12
DISTANCIAS PARCIALES	4.57	10.08	11.24	10.16	10.29	10.20	12.54	12.24	13.96	12.31	9.66	
DISTANCIAS ACUMULADAS	-56.55	-51.99	-41.90	-30.66	-20.50	-10.20	0.00	12.54	24.78	38.74	51.04	60.70
COTA TN	695.98	695.00	693.50	691.00	690.81	690.50	690.15	692.80	693.49	694.47	695.50	696.60
NIVEL TIRANTE	691.61											
DISTANCIAS LINEAS DE RIVERA					33.35		5.41					

5+599.88



PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12
DISTANCIAS PARCIALES	6.02	10.02	10.02	10.54	10.22	10.04	11.23	10.04	10.07	10.01	8.70	
DISTANCIAS ACUMULADAS	-56.86	-50.84	-40.82	-30.81	-20.26	-10.04	0.00	11.23	21.27	31.34	41.35	50.05
COTA TN	696.08	694.22	691.01	689.27	690.33	690.50	689.50	693.31	693.50	694.16	695.25	695.72
NIVEL TIRANTE	691.02											
DISTANCIAS LINEAS DE RIVERA					41.17		3.15					

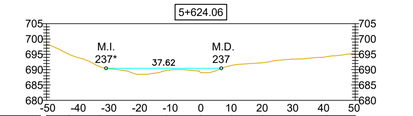
5+623.92

PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11
DISTANCIAS PARCIALES	10.41	10.41	10.13	10.90	10.52	10.94	10.16	10.01	10.04	11.24	
DISTANCIAS ACUMULADAS	-52.40	-41.98	-31.55	-21.41	-10.52	0.00	10.94	21.10	31.11	41.15	52.40
COTA TN	697.56	695.70	693.41	691.75	688.49	687.86	688.99	690.37	692.38	693.23	694.45
NIVEL TIRANTE	689.53										
DISTANCIAS LINEAS DE RIVERA					15.63		18.54				

5+698.92

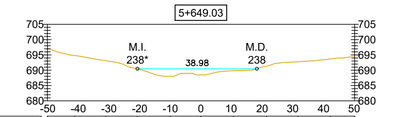
PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11
DISTANCIAS PARCIALES	8.27	10.48	10.48	11.80	10.18	11.11	10.75	10.14	11.23	7.98	
DISTANCIAS ACUMULADAS	-51.21	-42.94	-32.46	-21.98	-10.18	0.00	11.11	21.86	32.00	43.23	51.21
COTA TN	696.19	695.07	693.00	691.37	688.33	687.50	688.08	691.50	692.35	693.40	694.50
NIVEL TIRANTE	689.35										
DISTANCIAS LINEAS DE RIVERA					15.54		16.35				

5+723.92



PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11
DISTANCIAS PARCIALES	5.59	11.32	10.87	10.66	12.10	11.77	10.75	10.06	10.24	7.72	
DISTANCIAS ACUMULADAS	-59.53	-44.95	-33.63	-22.76	-12.10	0.00	11.77	22.52	32.57	42.81	50.53
COTA TN	695.00	694.34	692.44	690.71	688.00	687.00	687.92	691.50	692.00	693.46	694.53
NIVEL TIRANTE	688.82										
DISTANCIAS LINEAS DE RIVERA					15.81		14.65				

5+748.92



PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11
DISTANCIAS PARCIALES	5.02	10.05	10.12	10.82	14.34	10.21	13.10	10.14	10.30	6.68	
DISTANCIAS ACUMULADAS	-50.44	-45.33	-35.28	-25.16	-14.34	0.00	10.21	23.31	33.45	43.75	50.44
COTA TN	691.77	691.73	691.51	690.00	687.97	686.50	687.50	691.20	691.50	693.00	693.42
NIVEL TIRANTE	688.93										
DISTANCIAS LINEAS DE RIVERA					18.51		13.18				

5+774.02

PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11
DISTANCIAS PARCIALES	7.70	10.42	10.89	10.80	10.55	10.37	10.02	10.03	10.02	9.92	
DISTANCIAS ACUMULADAS	-59.36	-42.66	-32.24	-21.35	-10.55	0.00	10.37	20.39	30.41	40.44	59.36
COTA TN	691.28	691.01	689.84	688.99	687.22	686.49	687.60	688.00	688.52	689.00	689.68
NIVEL TIRANTE	688.91										
DISTANCIAS LINEAS DE RIVERA					20.95		36.95				

5+799.06

PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11
DISTANCIAS PARCIALES	7.93	10.37	10.52	11.12	10.08	10.52	10.37	10.08	10.55	8.49	
DISTANCIAS ACUMULADAS	-59.01	-42.08	-31.71	-21.20	-10.08	0.00	10.52	20.89	30.97	41.52	59.01
COTA TN	691.02	690.45	688.85	687.98	686.87	685.50	687.49	688.68	689.75	690.28	690.50
NIVEL TIRANTE	688.88										
DISTANCIAS LINEAS DE RIVERA					31.97		21.74				

5+824.00

PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11
DISTANCIAS PARCIALES	6.46	10.87	10.92	10.33	11.51	10.86	10.01	10.62	11.86	6.75	
DISTANCIAS ACUMULADAS	-59.09	-43.63	-32.76	-21.84	-11.51	0.00	10.86	20.86	31.48	43.34	59.09
COTA TN	692.93	691.72	690.40	688.24	687.14	685.50	687.50	690.38	690.58	690.92	691.25
NIVEL TIRANTE	688.29										
DISTANCIAS LINEAS DE RIVERA					22.24		14.04				

5+849.04

PUNTOS	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10
DISTANCIAS PARCIALES	6.73	10.32	10.89	10.26	11.97	10.85	10.53	22.56	6.24	
DISTANCIAS ACUMULADAS	-59.18	-43.44	-33.12	-22.23	-11.97	0.00	10.85	21.38	43.94	59.18
COTA TN	692.76	692.06	690.40	688.21	687.39	685.02	686.93	688.49	690.45	690.70
NIVEL TIRANTE	688.11									
DISTANCIAS LINEAS DE RIVERA					21.29		19.43			

REFERENCIAS

- Pelo de Agua
- Terreno Natural

Esc:1/1,000

0 10 20 40 80

OBRA: SERVICIOS PROFESIONALES PARA LA DEFINICIÓN DE LA LÍNEA DE RIBERA EN LA ZONA URBANA DE LA LOCALIDAD DE VILLA GENERAL BELGRANO (DEPARTAMENTO CALAMUCHITA)

Plano N° 0018

Localidad: Villa General Belgrano

Dpto.: Calamuchita

PLANO: ARROYO EL SAUCE SECCIONES TRANSVERSALES

Escala: 1:1000	Fecha: Agosto 2020	Ministro: Ing. Fabian Lopez
Topografia: Consular Consultores Argentinos Asociados S.A.		Secretario de Recursos Hidricos: Ing. Edgar Castelló
Proyecto: Ing. Ramiro M. García		Presidente APRHI: Ing. Juan Pablo Brarda
Dibujo: Ing. Lucia Otero		VOCALES APRHI: Wierzbicky/Plencovich/Herrero/Suaya