

ANEJO G. COORDENADAS DE LAS SECCIONES TRANSVERSALES

ANEJO G. DATOS DE LAS SECCIONES TRANSVERSALES USADAS

En este anejo se detallan las coordenadas longitudinales de las secciones transversales usadas en el estudio. Estas secciones corresponden a los puentes de Alija de la Ribera y de Carbajal de la Legua, situados respectivamente en las coordenadas longitudinales 6170.9 m y 23768.4 m.

1. Datos de las secciones transversales del puente de Alija de la Ribera.

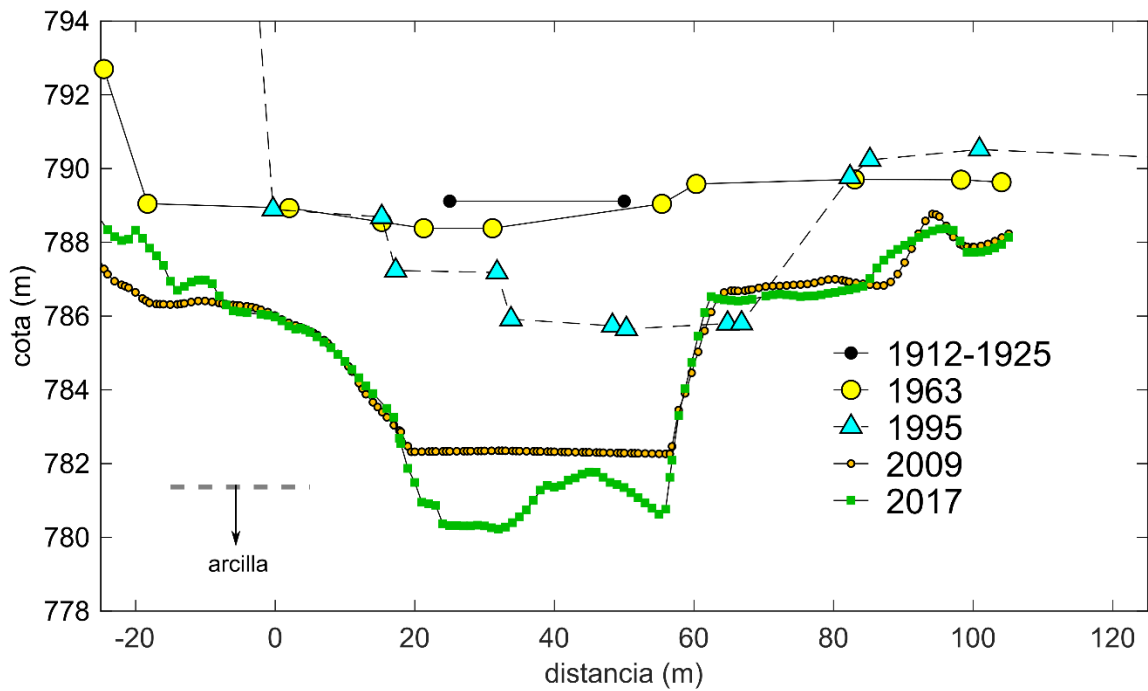


Figura 1. Evolución temporal de la sección del Bernesga en el puente de Alija de la Ribera.

Tabla 1. Sección transversal del puente de Alija. Año: 2017.

distancia (m)	z (m)	distancia (m)	z (m)	distancia (m)	z (m)	distancia (m)	z (m)
-34.0	790.3	1.9	785.7	37.0	781.0	72.3	786.6
-33.0	790.2	2.9	785.6	38.0	781.3	73.3	786.6
-32.0	790.2	3.6	785.7	39.0	781.4	74.3	786.6
-31.0	790.1	4.3	785.6	40.0	781.4	75.3	786.5
-30.0	790.1	5.0	785.6	41.0	781.4	76.3	786.5
-30.0	790.1	6.0	785.4	42.0	781.6	77.3	786.6
-29.0	790.0	7.0	785.3	43.0	781.6	78.2	786.6
-28.0	789.9	8.0	785.1	44.0	781.7	79.2	786.6
-27.0	789.6	9.0	785.0	45.0	781.8	80.2	786.6
-26.0	789.0	10.0	784.8	46.0	781.8	81.2	786.7
-25.0	788.6	11.0	784.6	47.0	781.6	82.2	786.7
-24.0	788.3	12.0	784.3	48.0	781.5	83.2	786.8
-23.0	788.2	13.0	784.1	49.0	781.4	84.2	786.8
-22.0	788.1	14.0	783.9	50.0	781.4	85.2	787.0
-21.0	788.1	16.0	783.5	51.0	781.2	86.2	787.3
-20.0	788.3	17.0	783.3	52.0	781.1	87.2	787.5
-19.0	788.1	17.8	782.7	53.0	780.9	88.2	787.7
-18.0	787.8	18.0	782.5	54.0	780.8	89.2	787.8
-17.0	787.6	19.0	781.9	55.0	780.6	90.2	787.9
-16.0	787.4	20.0	781.5	55.9	780.8	91.2	788.0
-15.0	786.9	21.0	781.0	56.5	781.6	92.2	788.1
-14.0	786.7	22.0	780.9	56.9	782.1	93.2	788.2
-13.0	786.8	23.0	780.9	57.8	783.3	94.2	788.3
-12.0	786.9	24.0	780.4	58.7	784.0	95.2	788.4
-11.0	787.0	25.0	780.3	59.7	784.7	96.1	788.4
-10.1	787.0	26.0	780.3	60.6	785.5	97.1	788.3
-9.1	786.9	27.0	780.3	61.5	786.1	98.1	788.0
-8.1	786.6	28.0	780.3	62.5	786.5	99.1	787.7
-7.1	786.3	29.0	780.3	63.4	786.5	99.9	787.7
-6.1	786.1	30.0	780.3	64.3	786.4	100.1	787.7
-5.1	786.1	31.0	780.3	65.3	786.4	101.1	787.7
-4.1	786.1	32.0	780.2	66.3	786.4	102.1	787.8
-2.1	786.1	33.0	780.3	67.3	786.4	103.1	787.9
-1.1	786.0	34.0	780.4	68.3	786.5	104.1	788.0
-0.1	786.0	35.0	780.6	70.3	786.5	105.1	788.1
0.9	785.9	36.0	780.8	71.3	786.6		

Tabla 2. Sección transversal del puente de Alija. Año: 2009-2010.

distancia (m)	z (m)	distancia (m)	z (m)	distancia (m)	z (m)	distancia (m)	z (m)	distancia (m)	z (m)
-34.0	790.4	-7.0	786.3	19.5	782.3	45.0	782.3	74.3	786.8
-33.0	790.4	-6.0	786.3	20.0	782.3	46.0	782.3	75.3	786.9
-32.5	790.3	-5.6	786.3	21.0	782.3	46.5	782.3	76.2	786.9
-32.0	790.3	-5.0	786.3	22.0	782.3	47.0	782.3	77.2	786.9
-31.0	790.2	-4.1	786.3	22.5	782.3	48.0	782.3	78.2	786.9
-30.0	790.0	-3.4	786.2	23.0	782.3	49.0	782.3	79.2	787.0
-30.0	790.0	-2.7	786.2	24.0	782.3	49.5	782.3	80.2	787.0
-29.0	789.7	-2.1	786.2	24.5	782.3	50.0	782.3	81.2	787.0
-28.0	789.2	-1.1	786.1	25.0	782.3	51.0	782.3	81.7	787.0
-27.5	788.9	-0.1	786.0	26.0	782.3	51.5	782.3	82.2	786.9
-27.0	788.6	0.9	785.9	27.0	782.3	52.0	782.3	83.2	786.9
-26.0	788.0	1.9	785.8	27.5	782.3	53.0	782.3	84.2	786.9
-25.0	787.5	2.9	785.7	28.0	782.3	54.0	782.3	85.2	786.9
-24.5	787.3	3.6	785.7	29.0	782.3	55.0	782.3	86.2	786.8
-24.0	787.1	4.3	785.6	29.5	782.3	55.9	782.3	87.2	786.8
-23.0	786.9	5.0	785.6	30.0	782.3	56.5	782.3	88.2	786.9
-22.0	786.8	5.5	785.5	31.0	782.3	56.9	782.5	89.2	787.1
-21.5	786.8	6.0	785.5	32.0	782.3	57.8	783.5	90.2	787.5
-21.0	786.8	7.0	785.3	32.5	782.3	58.7	783.9	91.2	787.8
-20.0	786.6	7.5	785.3	33.0	782.3	59.7	784.5	92.2	788.2
-19.0	786.5	8.0	785.2	34.0	782.3	60.6	785.0	93.2	788.6
-18.5	786.4	9.0	785.0	34.5	782.3	61.5	785.6	94.1	788.8
-18.0	786.4	10.0	784.8	35.0	782.3	62.4	786.1	94.6	788.8
-17.0	786.3	10.5	784.6	36.0	782.3	63.4	786.5	95.2	788.7
-16.5	786.3	11.0	784.5	37.0	782.3	64.3	786.6	96.1	788.4
-16.0	786.3	12.0	784.2	37.5	782.3	65.3	786.7	96.6	788.3
-15.0	786.3	12.5	784.0	38.0	782.3	65.8	786.7	97.1	788.1
-14.0	786.3	13.0	783.9	39.0	782.3	66.3	786.7	98.1	788.0
-13.5	786.3	14.0	783.7	39.5	782.3	67.3	786.7	98.6	787.9
-13.0	786.3	14.7	783.5	40.0	782.3	67.8	786.7	99.9	787.9
-12.0	786.4	15.3	783.4	41.0	782.3	68.3	786.7	100.1	787.9
-11.0	786.4	16.0	783.3	41.5	782.3	69.3	786.8	101.1	787.9
-10.1	786.4	17.0	783.0	42.0	782.3	70.3	786.8	102.1	788.0
-9.1	786.4	17.8	782.9	43.0	782.3	71.3	786.8	103.1	788.0
-8.1	786.4	18.0	782.9	44.0	782.3	72.3	786.8	104.1	788.1
-7.5	786.3	19.0	782.5	44.5	782.3	73.3	786.8	105.1	788.2

Tabla 3. Sección transversal del puente de Alija. Año: 1995.

distancia (m)	z (m)
-60.5	798.2
-25.7	797.7
-2.9	795.8
-0.3	788.9
-0.3	788.9
15.3	788.7
15.3	788.7
17.3	787.2
17.3	787.2
31.8	787.2
31.8	787.2
33.8	785.9
33.8	785.9
48.3	785.7
48.3	785.7
50.3	785.7
50.3	785.7
64.8	785.8
64.8	785.8
66.8	785.8
66.8	785.8
82.4	789.8
82.4	789.8
85.2	790.2
100.9	790.5
149.2	790.1
197.6	790.2
197.6	790.2
-60.5	798.2
-25.7	797.7

Tabla 4. Sección transversal del puente de Alija. Año: 1963.

distancia (m)	z (m)
792.7	-24.5
789.0	-18.3
788.9	2.0
788.6	15.3
788.4	21.3
788.4	31.1
789.0	55.4
789.6	60.3
789.7	83.0
789.7	98.3
789.6	104.1

Tabla 5. Sección transversal del puente de Alija. Año: 1912-1925.

distancia (m)	z (m)
789.1	25.0
789.1	50.0

2. Datos de las secciones transversales del puente de Carbajal de la Legua.

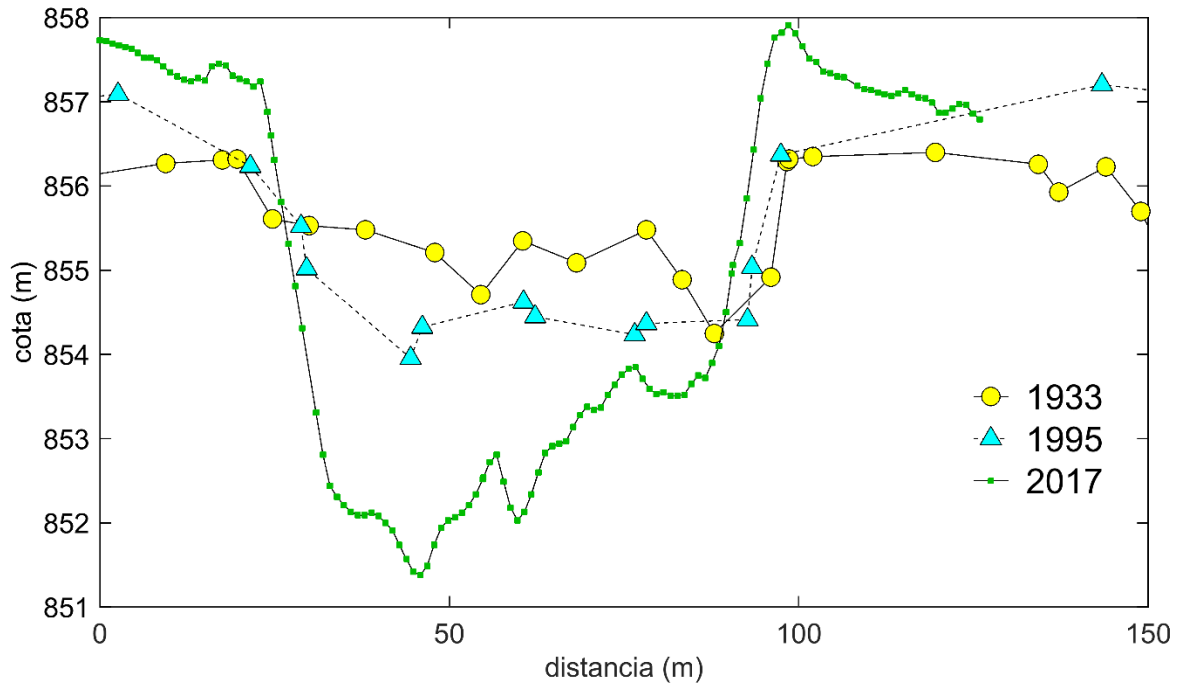


Figura 2. Evolución temporal de la sección del Bernesga en el puente de Carbajal de la Legua.

Tabla 6. Sección transversal del puente de Carbajal de la Legua. Año: 2017.

distancia (m)	z (m)	distancia (m)	z (m)	distancia (m)	z (m)	distancia (m)	z (m)
0.0	857.7	33.9	852.3	68.7	853.3	103.5	857.4
0.9	857.7	34.9	852.2	69.7	853.4	104.5	857.3
1.8	857.7	35.9	852.1	70.7	853.3	105.5	857.3
2.7	857.7	36.9	852.1	71.7	853.4	106.5	857.3
3.6	857.7	37.9	852.1	72.7	853.5	108.4	857.2
4.5	857.6	38.9	852.1	73.7	853.6	109.4	857.2
5.4	857.6	39.9	852.1	74.7	853.8	110.3	857.1
6.3	857.5	40.9	852.0	75.7	853.8	111.3	857.1
7.2	857.5	41.9	851.9	76.7	853.9	112.3	857.1
8.2	857.5	42.9	851.7	77.7	853.7	113.3	857.1
9.1	857.4	43.9	851.6	78.7	853.6	114.2	857.1
10.1	857.4	44.8	851.4	79.6	853.5	115.2	857.1
11.0	857.3	45.8	851.4	80.6	853.6	116.2	857.1
12.0	857.3	46.8	851.5	81.6	853.5	117.1	857.1
13.0	857.2	47.8	851.7	82.6	853.5	118.1	857.0
14.0	857.3	48.8	851.9	83.6	853.5	119.1	857.0
15.0	857.3	49.8	852.0	84.6	853.7	120.1	856.9
16.0	857.4	50.8	852.1	85.6	853.8	121.0	856.9
17.0	857.5	51.8	852.1	86.6	853.7	122.0	856.9
18.0	857.4	52.8	852.2	87.6	853.9	123.0	857.0
19.0	857.3	53.8	852.3	88.6	854.1	123.9	857.0
20.0	857.3	54.8	852.5	89.6	854.5	124.9	856.9
21.0	857.2	54.9	852.5	90.4	855.0	125.9	856.8
22.0	857.2	55.8	852.7	90.6	855.1		
23.0	857.2	56.8	852.8	91.6	855.3		
24.0	856.9	57.8	852.5	92.6	855.9		
24.5	856.6	58.8	852.2	93.6	856.4		
25.0	856.3	59.8	852.0	94.6	857.0		
26.0	855.8	60.8	852.1	95.6	857.5		
27.0	855.3	61.7	852.3	96.5	857.8		
27.9	854.8	62.7	852.6	97.5	857.8		
28.9	854.3	63.7	852.8	98.5	857.9		
30.9	853.3	64.7	852.9	99.5	857.8		
31.9	852.8	65.7	852.9	100.5	857.7		
32.9	852.4	66.7	853.0	101.5	857.5		
33.9	852.3	67.7	853.1	102.5	857.5		

Tabla 7. Sección transversal del puente de Carbajal de la Legua. Año: 1995.

distancia (m)	z (m)
856.5	-86.2
856.8	-31.7
857.1	2.6
856.2	21.5
855.5	28.8
855.0	29.6
855.0	29.6
854.0	44.5
854.0	44.5
854.3	46.2
854.3	46.2
854.6	60.6
854.6	60.6
854.4	62.3
854.4	62.3
854.2	76.5
854.2	76.5
854.4	78.2
854.4	78.2
854.4	92.7
854.4	92.7
855.0	93.3
856.4	97.4
857.2	143.4
856.7	194.4

Tabla 8. Sección transversal del puente de Carbajal de la Legua. Año: 1933.

distancia (m)	z (m)	distancia (m)	z (m)
856.1	-0.5	855.9	137.2
856.3	9.4	856.2	144.0
856.3	17.5	855.7	149.0
856.3	19.6	855.5	150.1
855.6	24.7	856.1	155.3
855.5	29.9	856.3	169.9
855.5	38.0	856.1	188.6
855.2	47.9	855.8	191.7
854.7	54.5	855.6	194.6
855.3	60.5	856.4	196.4
855.1	68.2	855.9	219.2
855.5	78.2	855.9	222.2
854.9	83.3	856.0	228.0
854.2	87.9	856.0	232.3
854.9	96.0	856.4	234.1
856.3	98.3	856.6	237.5
856.3	98.6	856.3	241.9
856.3	102.0	856.6	244.6
856.4	119.6	856.4	248.5
856.3	134.3		