



ATOLINGA

ESPECIFICACIONES GENERALES DEL PROYECTO

CONCEPTOS	DEL TRAMO	EN ESTE PLANO	UNIDAD
CAMINO TIPO	"BULEVAR"	"BULEVAR"	
VELOCIDAD DE PROYECTO	30 - 50	30 - 50	K.M / HR
ANCHO DE CORONA	12.00	12.00	M
ANCHO DE CALZADA	12.00	12.00	M
ANCHO DE CARRETA	5	5	CM
BASE	...	...	CM
GRANULOMETRIA	...	...	CM
GRANULOMETRIA	...	...	GRADOS
GRANULOMETRIA	...	...	%



SECRETARIA DE
OBRAS PÚBLICAS

LIC. DAVID MONREAL ÁVILA
CONSEJADOR CONSTITUCIONAL DEL ESTADO

C. ARQ. GUILLERMO CARRILLO PASILLA
SECRETARIO EJECUTIVO PÚBLICO

C. ARQ. MANUEL ALFONSO ACUÑA BORDA C. MAC. OSCAR ULISES TORRES MUÑOZ
SUBSECRETARÍAS DE PREVENCIÓN Y COSTOS

DEPARTAMENTO DE PROYECTOS CARRETEROS



LOCALIZACIÓN	ORIENTACIÓN
NOMBRE DEL OFICIAL DEL PROYECTO: MODERNIZACIÓN DEL BULEVAR DE ACCESO AL MUNICIPIO DE ATUINGA "CERVANTES CORONA" EN 0,26 KM (+0+140 - 0+400) MEDIANTE CONSTRUCCIÓN DE TERRACERAS OBRAS DE DRENAJE Y PAVIMENTO HIDRÁULICO, EN EL MUNICIPIO DE ATUINGA ZAC.	

PROYECTO: BULEVAR ATOLINGA

UBICACIÓN:

PLANO: TOPOGRÁFICA

TRAMO DE PROYECTO: 0+140 - 0+400

[illegible][illegible]

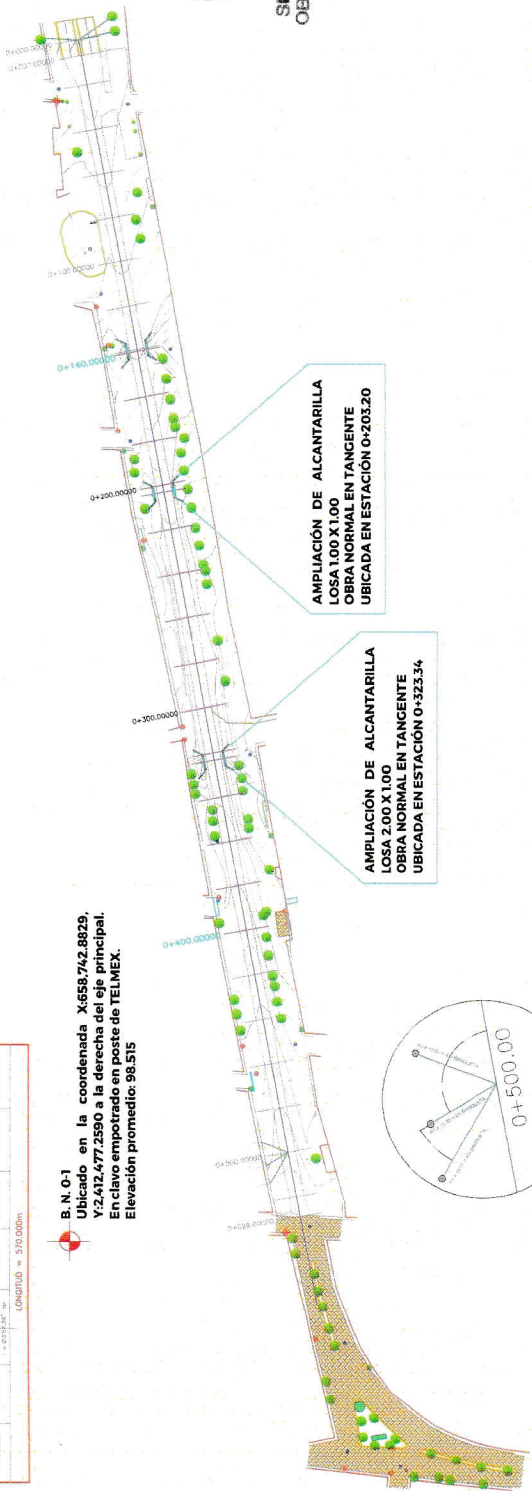
THE UNIVERSITY OF CHICAGO PRESS

SIMBOLOGÍA:

	EJE DE TRAZO Y CAMINO ESTACIÓN
	CORONA DE CAMINO
	CURVA DE NIVEL DELGADA
	CURVA DE NIVEL GRUESA
	LIMITE DE DERECHO DE VÍA
	BANCO DE NIVEL
	OBRA DE DRENAJE
	REFERENCIA DE TRAZO

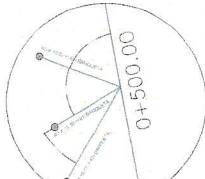
B. N. 0-0

Ubicado en la coordenada X:659,243.8049, Y:2,412,577.7422 a la derecha del eje principal.
En clavo empotrado en poste de TELMEX.
Elevación promedio: 100.287

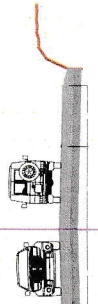


AMPLIACIÓN DE ALCANTARILLA
LOSA 1.00 X 1.00
OBRA NORMAL EN TANGENTE
UBICADA EN ESTACIÓN 0+203.20

AMPLIACIÓN DE ALCANTARILLA
LOSA 2.00 X 1.00
OBRA NORMAL EN TANGENTE



EJE DE CAMINO



CORTE TRANSVERSAL

CUADRO DE CONSTRUCCION DE JE									
LADO		RUMBO		DISTANCIA		COORDENADAS			
EST	PV	JE	JE	JE	JE	JE	JE	JE	JE
PV=0+000.00	PV=1+52.24	JE=0+000.00	JE=1+52.24	78.241	10.000	10.000	10.000	10.000	10.000
PV=1+52.24	PV=1+140.03	PV=1+140.03	PV=1+140.03	0.000	0.000	0.000	0.000	0.000	0.000
PV=1+140.03	PV=1+160.03	PV=1+160.03	PV=1+160.03	20.000	19.999	19.999	19.999	19.999	19.999
PV=1+160.03	PV=1+205.03	PV=1+205.03	PV=1+205.03	45.000	19.998	19.998	19.998	19.998	19.998
PV=1+205.03	PV=1+230.00	PV=1+230.00	PV=1+230.00	25.000	19.997	19.997	19.997	19.997	19.997
PV=1+230.00	PV=1+240.00	PV=1+240.00	PV=1+240.00	10.000	19.992	19.992	19.992	19.992	19.992
PV=1+240.00	PV=1+260.00	PV=1+260.00	PV=1+260.00	20.000	18.985	18.985	18.985	18.985	18.985
PV=1+260.00	PV=1+280.00	PV=1+280.00	PV=1+280.00	20.000	17.974	17.974	17.974	17.974	17.974
PV=1+280.00	PV=1+300.00	PV=1+300.00	PV=1+300.00	20.000	16.962	16.962	16.962	16.962	16.962
PV=1+300.00	PV=1+320.00	PV=1+320.00	PV=1+320.00	20.000	15.950	15.950	15.950	15.950	15.950
PV=1+320.00	PV=1+340.00	PV=1+340.00	PV=1+340.00	20.000	14.938	14.938	14.938	14.938	14.938
PV=1+340.00	PV=1+360.00	PV=1+360.00	PV=1+360.00	20.000	13.927	13.927	13.927	13.927	13.927
PV=1+360.00	PV=1+380.00	PV=1+380.00	PV=1+380.00	20.000	12.915	12.915	12.915	12.915	12.915
PV=1+380.00	PV=1+400.00	PV=1+400.00	PV=1+400.00	20.000	11.903	11.903	11.903	11.903	11.903
PV=1+400.00	PV=1+420.00	PV=1+420.00	PV=1+420.00	20.000	10.891	10.891	10.891	10.891	10.891
PV=1+420.00	PV=1+440.00	PV=1+440.00	PV=1+440.00	20.000	9.879	9.879	9.879	9.879	9.879
PV=1+440.00	PV=1+460.00	PV=1+460.00	PV=1+460.00	20.000	8.867	8.867	8.867	8.867	8.867
PV=1+460.00	PV=1+480.00	PV=1+480.00	PV=1+480.00	20.000	7.855	7.855	7.855	7.855	7.855
PV=1+480.00	PV=1+500.00	PV=1+500.00	PV=1+500.00	20.000	6.843	6.843	6.843	6.843	6.843
PV=1+500.00	PV=1+520.00	PV=1+520.00	PV=1+520.00	20.000	5.831	5.831	5.831	5.831	5.831
PV=1+520.00	PV=1+540.00	PV=1+540.00	PV=1+540.00	20.000	4.819	4.819	4.819	4.819	4.819
PV=1+540.00	PV=1+560.00	PV=1+560.00	PV=1+560.00	20.000	3.807	3.807	3.807	3.807	3.807
PV=1+560.00	PV=1+580.00	PV=1+580.00	PV=1+580.00	20.000	2.795	2.795	2.795	2.795	2.795
PV=1+580.00	PV=1+600.00	PV=1+600.00	PV=1+600.00	20.000	1.783	1.783	1.783	1.783	1.783
PV=1+600.00	PV=1+620.00	PV=1+620.00	PV=1+620.00	20.000	0.771	0.771	0.771	0.771	0.771
PV=1+620.00	PV=1+640.00	PV=1+640.00	PV=1+640.00	20.000	-0.241	-0.241	-0.241	-0.241	-0.241
PV=1+640.00	PV=1+660.00	PV=1+660.00	PV=1+660.00	20.000	-1.253	-1.253	-1.253	-1.253	-1.253
PV=1+660.00	PV=1+680.00	PV=1+680.00	PV=1+680.00	20.000	-2.265	-2.265	-2.265	-2.265	-2.265
PV=1+680.00	PV=1+700.00	PV=1+700.00	PV=1+700.00	20.000	-3.277	-3.277	-3.277	-3.277	-3.277
PV=1+700.00	PV=1+720.00	PV=1+720.00	PV=1+720.00	20.000	-4.289	-4.289	-4.289	-4.289	-4.289
PV=1+720.00	PV=1+740.00	PV=1+740.00	PV=1+740.00	20.000	-5.301	-5.301	-5.301	-5.301	-5.301
PV=1+740.00	PV=1+760.00	PV=1+760.00	PV=1+760.00	20.000	-6.313	-6.313	-6.313	-6.313	-6.313
PV=1+760.00	PV=1+780.00	PV=1+780.00	PV=1+780.00	20.000	-7.325	-7.325	-7.325	-7.325	-7.325
PV=1+780.00	PV=1+800.00	PV=1+800.00	PV=1+800.00	20.000	-8.337	-8.337	-8.337	-8.337	-8.337
PV=1+800.00	PV=1+820.00	PV=1+820.00	PV=1+820.00	20.000	-9.349	-9.349	-9.349	-9.349	-9.349
PV=1+820.00	PV=1+840.00	PV=1+840.00	PV=1+840.00	20.000	-10.361	-10.361	-10.361	-10.361	-10.361
PV=1+840.00	PV=1+860.00	PV=1+860.00	PV=1+860.00	20.000	-11.373	-11.373	-11.373	-11.373	-11.373
PV=1+860.00	PV=1+880.00	PV=1+880.00	PV=1+880.00	20.000	-12.385	-12.385	-12.385	-12.385	-12.385
PV=1+880.00	PV=1+900.00	PV=1+900.00	PV=1+900.00	20.000	-13.397	-13.397	-13.397	-13.397	-13.397
PV=1+900.00	PV=1+920.00	PV=1+920.00	PV=1+920.00	20.000	-14.409	-14.409	-14.409	-14.409	-14.409
PV=1+920.00	PV=1+940.00	PV=1+940.00	PV=1+940.00	20.000	-15.421	-15.421	-15.421	-15.421	-15.421
PV=1+940.00	PV=1+960.00	PV=1+960.00	PV=1+960.00	20.000	-16.433	-16.433	-16.433	-16.433	-16.433
PV=1+960.00	PV=1+980.00	PV=1+980.00	PV=1+980.00	20.000	-17.445	-17.445	-17.445	-17.445	-17.445
PV=1+980.00	PV=1+1000.00	PV=1+1000.00	PV=1+1000.00	20.000	-18.457	-18.457	-18.457	-18.457	-18.457
PV=1+1000.00	PV=1+1020.00	PV=1+1020.00	PV=1+1020.00	20.000	-19.469	-19.469	-19.469	-19.469	-19.469
PV=1+1020.00	PV=1+1040.00	PV=1+1040.00	PV=1+1040.00	20.000	-20.481	-20.481	-20.481	-20.481	-20.481
PV=1+1040.00	PV=1+1060.00	PV=1+1060.00	PV=1+1060.00	20.000	-21.493	-21.493	-21.493	-21.493	-21.493
PV=1+1060.00	PV=1+1080.00	PV=1+1080.00	PV=1+1080.00	20.000	-22.505	-22.505	-22.505	-22.505	-22.505
PV=1+1080.00	PV=1+1100.00	PV=1+1100.00	PV=1+1100.00	20.000	-23.517	-23.517	-23.517	-23.517	-23.517
PV=1+1100.00	PV=1+1120.00	PV=1+1120.00	PV=1+1120.00	20.000	-24.529	-24.529	-24.529	-24.529	-24.529
PV=1+1120.00	PV=1+1140.00	PV=1+1140.00	PV=1+1140.00	20.000	-25.541	-25.541	-25.541	-25.541	-25.541
PV=1+1140.00	PV=1+1160.00	PV=1+1160.00	PV=1+1160.00	20.000	-26.553	-26.553	-26.553	-26.553	-26.553
PV=1+1160.00	PV=1+1180.00	PV=1+1180.00	PV=1+1180.00	20.000	-27.565	-27.565	-27.565	-27.565	-27.565
PV=1+1180.00	PV=1+1200.00	PV=1+1200.00	PV=1+1200.00	20.000	-28.577	-28.577	-28.577	-28.577	-28.577
PV=1+1200.00	PV=1+1220.00	PV=1+1220.00	PV=1+1220.00	20.000	-29.589	-29.589	-29.589	-29.589	-29.589
PV=1+1220.00	PV=1+1240.00	PV=1+1240.00	PV=1+1240.00	20.000	-30.601	-30.601	-30.601	-30.601	-30.601
PV=1+1240.00	PV=1+1260.00	PV=1+1260.00	PV=1+1260.00	20.000	-31.613	-31.613	-31.613	-31.613	-31.613
PV=1+1260.00	PV=1+1280.00	PV=1+1280.00	PV=1+1280.00	20.000	-32.625	-32.625	-32.625	-32.625	-32.625
PV=1+1280.00	PV=1+1300.00	PV=1+1300.00	PV=1+1300.00	20.000	-33.637	-33.637	-33.637	-33.637	-33.637
PV=1+1300.00	PV=1+1320.00	PV=1+1320.00	PV=1+1320.00	20.000	-34.649	-34.649	-34.649	-34.649	-34.649
PV=1+1320.00	PV=1+1340.00	PV=1+1340.00	PV=1+1340.00	20.000	-35.661	-35.661	-35.661	-35.661	-35.661
PV=1+1340.00	PV=1+1360.00	PV=1+1360.00	PV=1+1360.00	20.000	-36.673	-36.673	-36.673	-36.673	-36.673
PV=1+1360.00	PV=1+1380.00	PV=1+1380.00	PV=1+1380.00	20.000	-37.685	-37.685	-37.685	-37.685	-37.685
PV=1+1380.00	PV=1+1400.00	PV=1+1400.00	PV=1+1400.00	20.000	-38.697	-38.697	-38.697	-38.697	-38.697
PV=1+1400.00	PV=1+1420.00	PV=1+1420.00	PV=1+1420.00	20.000	-39.709	-39.709	-39.709	-39.709	-39.709
PV=1+1420.00	PV=1+1440.00	PV=1+1440.00	PV=1+1440.00	20.000	-40.721	-40.721	-40.721	-40.721	-40.721
PV=1+1440.00	PV=1+1460.00	PV=1+1460.00	PV=1+1460.00	20.000	-41.733	-41.733	-41.733	-41.733	-41.733
PV=1+1460.00	PV=1+1480.00	PV=1+1480.00	PV=1+1480.00	20.000	-42.745	-42.745	-42.745	-42.745	-42.745
PV=1+1480.00	PV=1+1500.00	PV=1+1500.00	PV=1+1500.00	20.000	-43.757	-43.757	-43.757	-43.757	-43.757
PV=1+1500.00	PV=1+1520.00	PV=1+1520.00	PV=1+1520.00	20.000	-44.769	-44.769	-44.769	-44.769	-44.769
PV=1+1520.00	PV=1+1540.00	PV=1+1540.00	PV=1+1540.00	20.000	-45.781	-45.781	-45.781	-45.781	-45.781
PV=1+1540.00	PV=1+1560.00	PV=1+1560.00	PV=1+1560.00	20.000	-46.793	-46.793	-46.793	-46.793	-46.793
PV=1+1560.00	PV=1+1580.00	PV=1+1580.00	PV=1+1580.00	20.000	-47.805	-47.805	-47.805	-47.805	-47.805
PV=1+1580.00	PV=1+1600.00	PV=1+1600.00	PV=1+1600.00	20.000	-48.817	-48.817	-48.817	-48.817	-48.817
PV=1+1600.00	PV=1+1620.00	PV=1+1620.00	PV=1+1620.00	20.000	-49.829	-49.829	-49.829	-49.829	-49.829
PV=1+1620.00	PV=1+1640.00	PV=1+1640.00	PV=1+1640.00	20.000	-50.841	-50.841	-50.841	-50.841	-50.841
PV=1+1640.00	PV=1+1660.00	PV=1+1660.00	PV=1+1660.00	20.000	-51.853	-51.853	-51.853	-51.853	-51.853
PV=1+1660.00	PV=1+1680.00	PV=1+1680.00	PV=1+1680.00	20.000	-52.865	-52.865	-52.865	-52.865	-52.865
PV=1+1680.00	PV=1+1700.00	PV=1+1700.00	PV=1+1700.00	20.000	-53.877	-53.877	-53.877	-53.877	-53.877
PV=1+1700.00	PV=1+1720.00	PV=1+1720.00	PV=1+1720.00	20.000	-54.889	-54.889	-54.889	-54.889	-54.889
PV=1+1720.00	PV=1+1740.00	PV=1+1740.00	PV=1+1740.00	20.000	-55.901	-55.901	-55.901	-55.901	-55.901
PV=1+1740.00	PV=1+1760.00	PV=1+1760.00	PV=1+1760.00	20.000	-56.913	-56.913	-56.913	-56.913	-56.913
PV=1+1760.00	PV=1+1780.00	PV=1+1780.00	PV=1+1780.00	20.000	-57.925	-57.925	-57.925	-57.925	-57.925
PV=1+1780.00	PV=1+1800.00	PV=1+1800.00	PV=1+1800.00	20.000	-58.937	-58.937	-58.937	-58.937	-58.937
PV=1+1800.00	PV=1+1820.00	PV=1+1820.00	PV=1+1820.00	20.000	-59.949	-59.949	-59.949	-59.949	-59.949
PV=1+1820.00	PV=1+1840.00	PV=1+1840.00	PV=1+1840.00	20.000	-60.961	-60.961	-60.961	-60.961	-60.961
PV=1+1840.00	PV=1+1860.00	PV=1+1860.00	PV=1+1860.00	20.000	-61.973	-61.973	-61.973	-61.973	-61.973
PV=1+1860.00	PV=1+1880.00	PV=1+1880.00	PV=1+1880.00	20.000	-62.985	-62.985	-62.985	-62.985	-62.985
PV=1+1880.00	PV=1+1900.00	PV=1+1900.00	PV=1+1900.00	20.000	-63.997	-63.997	-63.997	-63.997	-63.997
PV=1+1900.00	PV=1+1920.00	PV=1+1920.00	PV=1+1920.00	20.000	-65.009	-65.009	-65.009	-65.009	-65.009
PV=1+1920.00	PV=1+1940.00	PV=1+1940.00	PV=1+1940.00	20.000	-66.021	-66.021	-66.021	-66.021	-66.021
PV=1+1940.00	PV=1+1960.00	PV=1+1960.00	PV=1+1960.00	20.000	-67.033	-67.033	-67.033	-67.033	-67.033
PV=1+1960.00	PV=1+1980.00	PV=1+1980.00	PV=1+1980.00	20.000	-68.045	-68.045	-68.045	-68.045	-68.045
PV=1+1980.00	PV=1+2000.00	PV=1+2000.00	PV=1+2000.						

B.N. 0-1
Ubicado en la coordenada X:658,742.8829,
Y:2,412,477.2590 a la derecha del eje principal.
En clavo empotrado en poste de TELMEX.
Elevación promedio: 98.515

LONGITUD = 570.000m

$r = 2.412, 700$

2412.600

 $r = 2.41250$

2.412.400

412 300

009

DOE

DOZ

009