

con. 018/2016

"2015, Año del Generalísimo José María Morelos y Pavón"

CONAGUA
COMISIÓN NACIONAL DEL AGUA

SEMARNAT

SECRETARÍA DE MEDIO AMBIENTE
Y RECURSOS NATURALES



Dirección Local Chihuahua
Subdirección Técnica
Jefatura de Aguas Superficiales y Subterráneas
Oficio No. 800.906.04.-067

ING. GUILLERMO AMADOR MORALES
DIRECTOR DE OBRAS PÚBLICAS MUNICIPALES
PRESENTE.-

Chihuahua, Chih., 30 de Abril de 2015

Me refiero a su solicitud de fecha 27 de abril del año en curso, mediante el cual solicita la aprobación del "Parque Tres Presas, Primera Etapa, sección río Chuvíscar tramo Presa Chihuahua-Presa Chuvíscar", en el municipio de Chihuahua, Chih., al respecto se le indica lo siguiente:

El proyecto se localiza en la subcuenca del río Chuvíscar, cuenca del río Conchos y región hidrológica 24 Rio Bravo, específicamente en la zona federal del río Chuvíscar, en el tramo que inicia aguas abajo de la cortina de la Presa Chihuahua y termina donde inicia el vaso de la Presa Chuvíscar.

El Proyecto contempla varias obras de infraestructura de las cuales destacan las siguientes:
Senda para actividades deportivas con una sección de 10 metros, conformada por un cuerpo de 4 metros de ancho de arcilla confinada con guarnición trapezoidal de concreto hidráulico a lo largo de la senda; otro cuerpo de 2 metros de ancho para alumbrado público y sistema de riego; y otro cuerpo más de 4 metros de ancho para una pista de ciclismo. Además se instalará mobiliario urbano a lo largo de senda consistente en botes de basura, señalética y módulo de ejercitadores.

Esta Comisión autoriza a que dichas obras se lleven a cabo, siempre y cuando se cumpla con las siguientes especificaciones:

1. Se deberá cumplir con lo establecido en el "CONVENIO QUE CELEBRA EL EJECUTIVO FEDERAL A TRAVÉS DE LA SECRETARÍA DE MEDIO AMBIENTE Y RECURSOS NATURALES, POR CONDUCTO DE LA COMISIÓN NACIONAL DEL AGUA, REPRESENTADA POR EL DIRECTOR LOCAL CHIHUAHUA C. LIC. ALEX LEBARON GONZALEZ Y EL MUNICIPIO DE CHIHUAHUA DEL ESTADO DE CHIHUAHUA, REPRESENTADO POR EL PRESIDENTE MUNICIPAL ING. JAVIER GARRO PACHECO, TENIENDO POR OBJETO QUE EL MUNICIPIO COADYUVE EN LA CUSTODIA, CONSERVACION Y MANTENIMIENTO DE LA ZONA FEDERAL, celebrado el día 30 de enero de 2014".

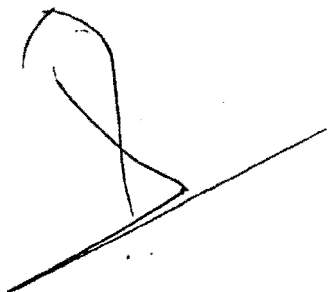
En tanto no se contradiga con el convenio anterior señalado, se deberá cumplir con lo siguiente:

2. La Senda descrita anteriormente se ubicará geográficamente dentro de zona federal del cauce cuyas poligonales de ambas márgenes se describen en el **anexo 1** (descripción de seis planos en 18 hojas) del presente documento.

Recabí Original 04/05/2015
Francisco Villar B. 16:54 horas

PLANO 1

Cuadro de construcción de la zona federal margen izquierda del km 0+000 al km 0+550						
Est.	P.V.	Rumbo	Distancia (m)	Vértice	Coordenadas	
					X	Y
				ZI1	390,320.7435	3,163,666.7474
ZI1	ZI2	S 07°16'16.85" E	136.3765	ZI2	390,338.0044	3,163,531.4677
ZI2	ZI3	S 15°07'51.48" W	57.5500	ZI3	390,322.9824	3,163,475.9128
ZI3	ZI4	S 03°34'03.74" W	101.7903	ZI4	390,316.6482	3,163,374.3198
ZI4	ZI5	S 26°54'19.90" W	44.5776	ZI5	390,296.4759	3,163,334.5676
ZI5	ZI6	S 39°21'05.35" W	62.8008	ZI6	390,256.6554	3,163,286.0055
ZI6	ZI7	S 65°44'31.02" W	48.5321	ZI7	390,212.4085	3,163,266.0663
ZI7	ZI8	S 76°19'58.45" W	47.9482	ZI8	390,165.8180	3,163,254.7371
ZI8	ZI9	S 82°08'08.46" W	60.4711	ZI9	390,105.9156	3,163,246.4630
ZI9	ZI10	S 37°17'20.54" W	63.2869	ZI10	390,067.5742	3,163,196.1126
ZI10	ZI11	S 29°14'43.62" W	62.8829	ZI11	390,036.8526	3,163,141.2451
ZI11	ZI12	N 89°56'52.55" W	26.3146	ZI12	390,010.5380	3,163,141.2690
ZI12	NI73	S 16°03'08.46" E	10.4085	NI73	390,013.4161	3,163,131.2664
NI73	NI74	S 89°56'52.55" E	29.2952	NI74	390,042.7113	3,163,131.2398
NI74	NI75	N 29°14'43.62" E	68.0475	NI75	390,075.9560	3,163,190.6136
NI75	NI76	N 37°17'20.54" E	58.4573	NI76	390,111.3716	3,163,237.1216
NI76	NI77	N 82°08'08.46" E	58.8514	NI77	390,167.6883	3,163,244.9005
NI77	NI78	N 76°19'58.45" E	49.3819	NI78	390,215.6719	3,163,256.5684
NI78	NI79	N 65°44'31.02" E	51.8035	NI79	390,262.9014	3,163,277.8518
NI79	NI80	N 39°21'05.35" E	66.2358	NI80	390,304.9000	3,163,329.0700
NI80	NI81	N 26°54'19.90" E	47.7333	NI81	390,326.5003	3,163,371.6363
NI81	NI82	N 03°34'03.74" E	102.8430	NI82	390,332.9000	3,163,474.2800
NI82	NI83	N 15°07'51.48" E	58.5177	NI83	390,348.1747	3,163,530.7690
NI83	NI84	N 07°16'16.85" W	138.3568	NI84	390,330.6630	3,163,668.0131
NI84	ZI1	S 82°43'43.15" W	10.0000	ZI1	390,320.7435	3,163,666.7474
Superficie= 7,200.2718 m²						



3. Debido a que la infraestructura a instalarse originará agrupación de personas que requieran de servicios sanitarios, y con el objetivo de evitar la contaminación del agua, se deberá evitar la descarga de aguas residuales al cauce del río sin el tratamiento correspondiente.
4. Debido a que el agua del cauce está en continuo movimiento, se deberá evitar la acumulación de basura orgánica e inorgánica en la ribera y dentro del cauce.
5. Con el objetivo de brindar seguridad hidrológica e hidráulica sobre el cauce, no se deberá implantar ningún tipo de vegetación dentro del área que ocupa el cauce.
6. No se deberán construir obras de cruce sobre el cauce y zona federal del río como puentes vehiculares o peatonales, así como otras edificaciones de obras y construcciones definitivas que puedan alterar o modificar las condiciones hidráulicas del cauce, sin el permiso correspondiente emitido por esta Comisión.
7. No deberá darse terminación constructiva a los taludes del cauce en ambos márgenes hasta en tanto no se tenga el proyecto ejecutivo de encauzamiento debidamente autorizado por la Comisión Nacional del Agua, el cual se deberá realizar mediante los estudios técnicos necesarios en apego a la normatividad establecida en esta institución.
8. Los trabajos y maniobras relativos a las obras estarán bajo su responsabilidad y deberá permitir en cualquier momento el acceso a los terrenos donde se realizarán dichas obras, para que la Comisión Nacional del Agua ejerza la inspección y vigilancia que le competen de acuerdo a las facultades que para tal efecto señala la Ley de Aguas Nacionales y su Reglamento.
9. La Comisión Nacional del Agua no asume perjuicio o reclamación alguna por daños causados por avenidas ordinarias o extraordinarias, ni será responsable ni contraerá obligación alguna en caso de que los bienes en donde se ubican las obras se dañen o perjudiquen por caso fortuito o fuerza mayor o por cualquier otra causa ajena.
10. Entregar a la Dirección Local de la Comisión Nacional del Agua un aviso de inicio de los trabajos y un aviso de terminación de los trabajos, una vez concluidos éstos, con un informe técnico que contenga las especificaciones de las obras.
11. La presente autorización queda sin efecto al dejar de cumplir alguna de las especificaciones antes descritas.

Sin otro particular de momento envío a Usted un cordial saludo.

**ATENTAMENTE
EL SUBDIRECTOR TÉCNICO**

ING. PABLO LOPEZ ARZATE

C.c.p

Ing. Roberto Parada Villalobos, Coordinador de la Dirección Local Chihuahua. Presente.
PLA/MALO/15

PLANO 2

Cuadro de construcción de la zona federal margen izquierda del km 000+00 al km 1+600						
Est.	P.V.	Rumbo	Distancia (m)	Vértice	Coordenadas	
					X	Y
				ZI12	390,010.5380	3,163,141.2690
ZI12	ZI13	S 57°50'35.63" W	58.1749	ZI13	389,961.2874	3,163,110.3061
ZI13	ZI14	N 84°50'40.03" W	53.5604	ZI14	389,907.9437	3,163,115.1191
ZI14	ZI15	S 65°29'23.82" W	58.1213	ZI15	389,855.0598	3,163,091.0073
ZI15	ZI16	S 48°17'45.84" W	55.8776	ZI16	389,813.3420	3,163,053.8329
ZI16	ZI17	S 16°33'22.29" W	58.9359	ZI17	389,796.5479	3,162,997.3405
ZI17	ZI18	S 46°48'49.31" W	44.0864	ZI18	389,764.4030	3,162,967.1689
ZI18	ZI19	S 56°25'41.71" W	46.2830	ZI19	389,725.8403	3,162,941.5753
ZI19	ZI20	S 56°42'18.56" W	49.2777	ZI20	389,684.6512	3,162,914.5244
ZI20	ZI21	S 67°38'54.99" W	45.2081	ZI21	389,642.8397	3,162,897.3324
ZI21	ZI22	S 72°52'47.95" W	45.8448	ZI22	389,599.0263	3,162,883.8369
ZI22	ZI23	S 72°52'47.95" W	22.1535	ZI23	389,577.8544	3,162,877.3155
ZI23	ZI24	S 72°52'47.95" W	50.2427	ZI24	389,529.8379	3,162,862.5253
ZI24	ZI25	S 84°51'49.36" W	49.1442	ZI25	389,480.8910	3,162,858.1257
ZI25	ZI26	S 86°53'29.97" W	51.4724	ZI26	389,429.4944	3,162,855.3346
ZI26	ZI27	S 65°51'41.47" W	45.8882	ZI27	389,387.6186	3,162,836.5690
ZI27	ZI28	S 87°32'58.27" W	29.1442	ZI28	389,358.5010	3,162,835.3229
ZI28	ZI29	S 74°44'27.65" W	42.4978	ZI29	389,317.5014	3,162,824.1382
ZI29	ZI30	S 47°50'48.13" W	55.3359	ZI30	389,276.4781	3,162,787.0013
ZI30	ZI31	S 46°26'36.72" W	19.7033	ZI31	389,262.1991	3,162,773.4244
ZI31	ZI32	S 46°26'36.72" W	25.4520	ZI32	389,243.7542	3,162,755.8862
ZI32	ZI33	S 57°52'04.40" W	17.8407	ZI33	389,228.6463	3,162,746.3972
ZI33	ZI34	S 57°52'04.40" W	27.3980	ZI34	389,205.4450	3,162,731.8250
ZI34	ZI35	S 55°12'45.18" W	52.9821	ZI35	389,161.9322	3,162,701.5969
ZI35	NI50	S 33°20'24.75" E	10.0032	NI50	389,167.4300	3,162,693.2400
NI50	NI51	N 55°12'45.18" E	53.0030	NI51	389,210.9600	3,162,723.4800
NI51	NI52	N 57°52'04.40" E	27.1663	NI52	389,233.9650	3,162,737.9290
NI52	NI53	N 57°52'04.40" E	18.8409	NI53	389,249.9200	3,162,747.9500
NI53	NI54	N 46°26'36.72" E	26.4522	NI54	389,269.0898	3,162,766.1774
NI54	NI55	N 46°26'36.72" E	19.5809	NI55	389,283.2800	3,162,779.6700
NI55	NI56	N 47°50'48.13" E	52.8224	NI56	389,322.4400	3,162,815.1200
NI56	NI57	N 74°44'27.65" E	38.9844	NI57	389,360.0500	3,162,825.3800
NI57	NI58	N 87°32'58.27" E	29.9374	NI58	389,389.9600	3,162,826.6600
NI58	NI59	N 65°51'41.47" E	45.9477	NI59	389,431.8900	3,162,845.4500
NI59	NI60	N 86°53'29.97" E	49.7933	NI60	389,481.6100	3,162,848.1500
NI60	NI61	N 84°51'49.36" E	50.3708	NI61	389,531.7786	3,162,852.6595

NI61	NI62	N 72°52'47.95" E	51.2923	NI62	389,580.7981	3,162,867.7586
NI62	NI63	N 72°52'47.95" E	22.1535	NI63	389,601.9700	3,162,874.2800
NI63	NI64	N 72°52'47.95" E	46.3016	NI64	389,646.2200	3,162,887.9100
NI64	NI65	N 67°38'54.99" E	46.6228	NI65	389,689.3400	3,162,905.6400
NI65	NI66	N 56°42'18.56" E	50.2598	NI66	389,731.3500	3,162,933.2300
NI66	NI67	N 56°25'41.71" E	47.1482	NI67	389,770.6336	3,162,959.3020
NI67	NI68	N 46°48'49.31" E	47.6310	NI68	389,805.3629	3,162,991.8994
NI68	NI69	N 16°33'22.29" E	58.7966	NI69	389,822.1173	3,163,048.2584
NI69	NI70	N 48°17'45.84" E	51.5229	NI70	389,860.5839	3,163,082.5356
NI70	NI71	N 65°29'23.82" E	53.9612	NI71	389,909.6826	3,163,104.9216
NI71	NI72	S 84°50'40.03" E	54.2884	NI72	389,963.7514	3,163,100.0432
NI72	NI73	N 57°50'35.63" E	58.6640	NI73	390,013.4161	3,163,131.2664
NI73	ZI12	N 16°03'08.46" W	10.4085	ZI12	390,010.5380	3,163,141.2690
Superficie= 10,030.8263 m ²						

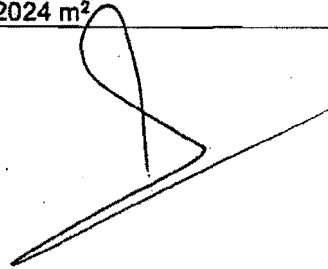
Cuadro de construcción de la zona federal margen derecha del km 0+550 al km 1+470.41						
Est.	P.V.	Rumbo	Distancia (m)	Vértice	Coordenadas	
					X	Y
				ND280	390,054.1802	3,162,998.3154
ND280	ND281	S 62°01'00.53" W	43.2293	ND281	390,016.0050	3,162,978.0317
ND281	ND282	S 51°41'37.76" W	36.5517	ND282	389,987.3225	3,162,955.3746
ND282	ND283	S 52°01'39.73" W	44.8265	ND283	389,951.9855	3,162,927.7938
ND283	ND284	S 63°58'08.62" W	48.4693	ND284	389,908.4331	3,162,906.5227
ND284	ND285	S 67°33'27.69" W	48.0372	ND285	389,864.0340	3,162,888.1844
ND285	ND286	S 73°48'19.66" W	50.7044	ND286	389,815.3415	3,162,874.0429
ND286	ND287	S 55°48'06.28" W	50.2135	ND287	389,773.8100	3,162,845.8200
ND287	ND288	S 71°50'19.60" W	50.3061	ND288	389,726.0100	3,162,830.1400
ND288	ND289	S 69°55'44.01" W	49.5067	ND289	389,679.5100	3,162,813.1500
ND289	ND290	S 67°26'57.84" W	48.9962	ND290	389,634.2600	3,162,794.3600
ND290	ND291	S 70°16'34.36" W	60.5951	ND291	389,577.2200	3,162,773.9100
ND291	ND292	S 86°59'20.09" W	53.1133	ND292	389,524.1800	3,162,771.1200
ND292	ND293	N 83°00'00.53" W	49.3982	ND293	389,475.1500	3,162,777.1400
ND293	ND294	N 76°57'06.40" W	18.4257	ND294	389,457.2000	3,162,781.3000
ND294	ND295	S 58°23'19.16" W	48.8596	ND295	389,415.5900	3,162,755.6900
ND295	ND296	S 43°03'53.24" W	29.5244	ND296	389,395.4300	3,162,734.1200
ND296	ND297	S 42°07'05.01" W	45.5670	ND297	389,364.8700	3,162,700.3200
ND297	ND298	S 67°32'51.11" W	47.3925	ND298	389,321.0700	3,162,682.2200
ND298	ND299	S 61°41'25.68" W	18.4229	ND299	389,304.8505	3,162,673.4832
ND299	ZD300	S 28°18'34.32" E	10.0000	ZD300	389,309.5928	3,162,664.6792
ZD300	ZD301	N 61°41'25.68" E	17.9113	ZD301	389,325.3620	3,162,673.1734
ZD301	ZD302	N 67°32'51.11" E	49.1372	ZD302	389,370.7744	3,162,691.9398
ZD302	ZD303	N 42°07'05.01" E	47.7407	ZD303	389,402.7922	3,162,727.3521
ZD303	ZD304	N 43°03'53.24" E	28.0965	ZD304	389,421.9772	3,162,747.8789
ZD304	ZD305	N 58°23'19.16" E	43.4070	ZD305	389,458.9436	3,162,770.6309
ZD305	ZD306	S 76°57'06.40" E	14.8467	ZD306	389,473.4070	3,162,767.2789
ZD306	ZD307	S 83°00'00.53" E	50.8024	ZD307	389,523.8307	3,162,761.0878
ZD307	ZD308	N 86°59'20.09" E	55.4581	ZD308	389,579.2122	3,162,764.0010
ZD308	ZD309	N 70°16'34.36" E	62.3107	ZD309	389,637.8671	3,162,785.0300

ZD309	ZD310	N 67°26'57.84" E	49.0265	ZD310	389,683.1451	3,162,803.8316
ZD310	ZD311	N 69°55'44.01" E	49.1236	ZD311	389,729.2853	3,162,820.6901
ZD311	ZD312	N 71°50'19.60" E	51.5481	ZD312	389,778.2654	3,162,836.7572
ZD312	ZD313	N 55°48'06.28" E	50.0381	ZD313	389,819.6518	3,162,864.8816
ZD313	ZD314	N 73°48'19.66" E	49.6660	ZD314	389,867.3471	3,162,878.7334
ZD314	ZD315	N 67°33'27.69" E	48.8962	ZD315	389,912.5401	3,162,897.3997
ZD315	ZD316	N 63°58'08.62" E	49.8284	ZD316	389,957.3138	3,162,919.2672
ZD316	ZD317	N 52°01'39.73" E	45.9015	ZD317	389,993.4983	3,162,947.5095
ZD317	ZD318	N 51°41'37.76" E	35.6775	ZD318	390,021.4948	3,162,969.6247
ZD318	ZD319	N 62°01'00.53" E	41.3403	ZD319	390,058.0019	3,162,989.0221
ZD319	ND280	N 22°21'14.19" W	10.0485	ND280	390,054.1802	3,162,998.3154

Superficie= 8,414.4674 m²

Cuadro de construcción de la zona federal margen derecha del km 1+519.87 al km 1+600						
Est.	P.V.	Rumbo	Distancia (m)	Vértice	Coordenadas	
					X	Y
				ND331	389,267.4542	3,162,653.34
ND331	ND332	S 61°41'24.79" W	31.0590	ND332	389,240.1100	3,162,638.61
ND332	ND333	S 77°18'51.31" W	49.4983	ND333	389,191.8200	3,162,627.74
ND333	ZD362	S 19°37'50.11" E	10.0739	ZD362	389,195.2044	3,162,618.25
ZD362	ZD363	N 77°18'51.31" E	49.6522	ZD363	389,243.6445	3,162,629.16
ZD363	ZD364	N 61°41'24.79" E	32.4309	ZD364	389,272.1966	3,162,644.54
ZD364	ND331	N 28°18'35.21" W	10.0000	ND331	389,267.4542	3,162,653.34

Superficie= 813.2024 m²



PLANO 3

Cuadro de construcción de la zona federal margen izquierda del km 1+600 al km 1+937.74						
Est.	P.V.	Rumbo	Distancia (m)	Vértice	Coordenadas	
					X	Y
				ZI35	389,161.9322	3,162,701.5969
ZI35	ZI36	S 58°06'25.32" W	48.0436	ZI36	389,121.1414	3,162,676.2138
ZI36	ZI37	S 74°07'36.95" W	45.5190	ZI37	389,077.3581	3,162,663.7641
ZI37	ZI38	S 60°10'32.67" W	49.9530	ZI38	389,034.0210	3,162,638.9203
ZI38	ZI39	S 66°02'28.55" W	46.3125	ZI39	388,991.6989	3,162,620.1138
ZI39	ZI40	S 62°31'40.14" W	44.9137	ZI40	388,951.8499	3,162,599.3943
ZI40	ZI41	S 69°16'32.74" W	44.6263	ZI41	388,910.1112	3,162,583.6024
ZI41	ZI42	S 53°48'31.88" W	61.5395	ZI42	388,860.4456	3,162,547.2645
ZI42	NI43	S 36°11'28.12" E	10.0000	NI43	388,866.3504	3,162,539.1940
NI43	NI44	N 53°48'31.88" E	60.1815	NI44	388,914.9200	3,162,574.7300
NI44	NI45	N 69°16'32.74" E	43.8578	NI45	388,955.9400	3,162,590.2500
NI45	NI46	N 62°31'40.14" E	45.1966	NI46	388,955.9400	3,162,611.1000
NI46	NI47	N 66°02'28.55" E	46.5181	NI47	389,038.5500	3,162,629.9900
NI47	NI48	N 60°10'32.67" E	49.2418	NI48	389,081.2700	3,162,654.4800
NI48	NI49	N 74°07'36.95" E	45.7026	NI49	389,125.2300	3,162,666.9800
NI49	NI50	N 58°06'25.32" E	49.7034	NI50	389,167.4300	3,162,693.2400
NI50	ZI35	N 33°20'24.75" W	10.0032	ZI35	389,161.9322	3,162,701.5969
Superficie= 3,406.5453 m²						

Cuadro de construcción de la zona federal margen izquierda del km 2+050 al km 2+700						
Est.	P.V.	Rumbo	Distancia (m)	Vértice	Coordenadas	
					X	Y
				ZI85	388,784.4906	3,162,489.2000
ZI85	ZI86	S 46°08'12.19" W	33.0093	ZI86	388,760.6910	3,162,466.3265
ZI86	ZI87	S 47°43'57.96" W	46.1765	ZI87	388,726.5197	3,162,435.2687
ZI87	ZI88	S 64°07'15.59" W	49.4083	ZI88	388,682.0662	3,162,413.7033
ZI88	ZI89	S 34°15'36.38" W	60.4698	ZI89	388,648.0247	3,162,363.7256
ZI89	ZI90	S 78°41'57.44" W	45.1276	ZI90	388,603.7720	3,162,354.8825
ZI90	ZI91	S 73°13'45.90" W	46.4786	ZI91	388,559.2702	3,162,341.4716
ZI91	ZI92	S 83°47'54.16" W	44.9207	ZI92	388,514.6124	3,162,336.6189
ZI92	ZI93	N 77°32'56.43" W	49.5617	ZI93	388,466.2163	3,162,347.3046
ZI93	ZI94	N 78°36'07.72" W	51.8542	ZI94	388,415.3847	3,162,357.5521
ZI94	ZI95	S 79°40'05.01" W	51.2611	ZI95	388,364.9548	3,162,348.3584
ZI95	ZI96	S 77°47'06.83" W	50.0196	ZI96	388,316.0676	3,162,337.7754

ZI96	ZI97	S 64°24'11.29" W	51.0134	ZI97	388,270.0609	3,162,315.7358
ZI97	ZI98	S 72°32'16.58" W	50.7353	ZI98	388,221.6638	3,162,300.5114
ZI98	NI195	S 29°16'38.29" E	10.2165	NI195	388,226.6600	3,162,291.6000
NI195	NI196	N 72°32'16.58" E	49.3545	NI196	388,273.7400	3,162,306.4100
NI196	NI197	N 64°24'11.29" E	50.5513	NI197	388,319.3300	3,162,328.2500
NI197	NI198	N 77°47'06.83" E	48.6821	NI198	388,366.9100	3,162,338.5500
NI198	NI199	N 79°40'05.01" E	49.1774	NI199	388,415.2900	3,162,347.3700
NI199	NI200	S 78°36'07.72" E	49.8430	NI200	388,464.1500	3,162,337.5200
NI200	NI201	S 77°32'56.43" E	51.1121	NI201	388,514.0600	3,162,326.5000
NI201	NI202	N 83°47'54.16" E	47.4879	NI202	388,561.2700	3,162,331.6300
NI202	NI203	N 73°13'45.90" E	46.9259	NI203	388,606.2000	3,162,345.1700
NI203	NI204	N 78°41'57.44" E	48.7349	NI204	388,653.9900	3,162,354.7200
NI204	NI205	N 34°15'36.38" E	61.8882	NI205	388,688.8300	3,162,405.8700
NI205	NI206	N 64°07'15.59" E	48.1818	NI206	388,732.1800	3,162,426.9000
NI206	NI207	N 47°43'57.96" E	47.7557	NI207	388,767.5200	3,162,459.0200
NI207	NI208	N 46°08'12.19" E	33.1486	NI208	388,791.4200	3,162,481.9900
NI208	ZI85	N 43°51'47.81" W	10.0000	ZI85	388,784.4906	3,162,489.2000
Superficie= 6,314.4001 m²						

Cuadro de construcción de la zona federal margen derecha del km 1+600 al km 2+300						
Est.	P.V.	Rumbo	Distancia (m)	Vértice	Coordenadas	
					X	Y
				ND333	389,191.8200	3,162,627.7400
ND333	ND334	S 63°25'28.47" W	49.3992	ND334	389,147.6400	3,162,605.6400
ND334	ND335	S 84°28'52.50" W	48.1432	ND335	389,099.7200	3,162,601.0100
ND335	ND336	S 72°21'36.54" W	48.3116	ND336	389,053.6800	3,162,586.3700
ND336	ND337	S 36°13'52.88" W	56.1715	ND337	389,020.4800	3,162,541.0600
ND337	ND338	N 89°34'06.32" W	49.1214	ND338	388,971.3600	3,162,541.4300
ND338	ND339	S 46°17'07.50" W	52.3249	ND339	388,933.5400	3,162,505.2700
ND339	ND340	N 87°43'24.56" W	26.6305	ND340	388,906.9305	3,162,506.3278
ND340	ND341	S 42°11'43.07" W	68.4581	ND341	388,860.9500	3,162,455.6100
ND341	ND342	S 49°44'00.38" W	46.7862	ND342	388,825.2500	3,162,425.3700
ND342	ND343	S 51°24'47.57" W	51.4671	ND343	388,785.0200	3,162,393.2700
ND343	ND344	S 50°54'24.18" W	48.3044	ND344	388,747.5300	3,162,362.8100
ND344	ND345	S 66°07'56.74" W	49.0332	ND345	388,702.6900	3,162,342.9700
ND345	ND346	S 57°03'55.39" W	48.1716	ND346	388,662.2600	3,162,316.7800
ND346	ND347	S 54°15'31.10" W	54.9367	ND347	388,617.6700	3,162,284.6900
ND347	ZD348	S 35°44'28.90" E	10.0000	ZD348	388,623.5113	3,162,276.5734
ZD348	ZD349	N 54°15'31.10" E	54.6917	ZD349	388,667.9024	3,162,308.5203
ZD349	ZD350	N 57°03'55.39" E	47.1337	ZD350	388,707.4613	3,162,334.1460

Superficie= 6,958.7956 m²

Cuadro de construcción de la zona federal margen derecha del km 1+519.87 al km 1+600

Superficie= 3,482.0365 m²

Superficie= 3,482.0365 m²

PLANO 4

Cuadro de construcción de la zona federal margen izquierda del km 2+700 al km 4+100						
Est.	P.V.	Rumbo	Distancia (m)	Vértice	Coordenadas	
					X	Y
				ZI98	388,221.6638	3,162,300.5114
ZI98	ZI99	S 48°54'26.84" W	58.8497	ZI99	388,177.3117	3,162,261.8308
ZI99	ZI100	S 33°33'33.72" W	26.593	ZI100	388,162.6111	3,162,239.6705
ZI100	ZI101	S 09°20'46.80" W	51.6587	ZI101	388,154.2216	3,162,188.6977
ZI101	ZI102	S 75°33'24.41" W	47.9196	ZI102	388,107.8165	3,162,176.7455
ZI102	ZI103	S 43°25'15.09" W	53.3669	ZI103	388,071.1347	3,162,137.9838
ZI103	ZI104	S 23°44'33.58" W	14.2731	ZI104	388,065.3879	3,162,124.9188
ZI104	ZI105	S 55°08'12.83" W	48.2165	ZI105	388,025.8253	3,162,097.3574
ZI105	ZI106	S 71°06'48.92" W	42.0313	ZI106	387,986.0568	3,162,083.7521
ZI106	ZI107	S 79°15'36.07" W	42.3483	ZI107	387,944.4503	3,162,075.8604
ZI107	ZI108	N 81°30'57.87" W	48.0155	ZI108	387,896.9603	3,162,082.9442
ZI108	ZI109	S 70°03'30.06" W	56.5605	ZI109	387,843.7911	3,162,063.6535
ZI109	ZI110	S 46°38'26.22" W	60.2252	ZI110	387,800.0037	3,162,022.3046
ZI110	ZI111	S 36°53'00.19" W	99.8451	ZI111	387,740.0778	3,161,942.4426
ZI111	ZI112	S 21°04'04.43" E	12.068	ZI112	387,744.4160	3,161,931.1813
ZI112	ZI113	S 48°48'20.31" E	69.5695	ZI113	387,796.7656	3,161,885.3618
ZI113	ZI114	S 38°53'28.55" W	7.6531	ZI114	387,791.9606	3,161,879.4051
ZI114	ZI115	S 36°02'41.65" W	20.6958	ZI115	387,779.7829	3,161,862.6714
ZI115	ZI116	S 75°28'18.99" W	30.5289	ZI116	387,750.2301	3,161,855.0131
ZI116	ZI117	S 89°14'21.05" W	39.5177	ZI117	387,710.7158	3,161,854.4884
ZI117	ZI118	N 74°16'26.96" W	33.0162	ZI118	387,678.9355	3,161,863.4369
ZI118	ZI119	N 73°06'37.92" W	67.6838	ZI119	387,614.1711	3,161,883.1008
ZI119	ZI120	N 66°06'13.76" W	45.165	ZI120	387,572.8776	3,161,901.3963
ZI120	ZI121	N 67°53'55.84" W	44.4797	ZI121	387,531.6662	3,161,918.1314
ZI121	ZI122	N 71°26'15.67" W	39.8206	ZI122	387,493.9172	3,161,930.8078
ZI122	ZI123	N 67°46'00.05" W	38.1075	ZI123	387,458.6429	3,161,945.2269
ZI123	ZI124	N 50°56'24.13" W	44.064	ZI124	387,424.4277	3,161,972.9931
ZI124	ZI125	N 37°19'57.35" W	51.4675	ZI125	387,393.2157	3,162,013.9164
ZI125	ZI126	N 50°25'05.73" W	49.2133	ZI126	387,355.2862	3,162,045.2740
ZI126	NI167	S 38°21'04.31" W	10.0023	NI167	387,349.0800	3,162,037.4300
NI167	NI168	S 50°25'05.73" E	47.8516	NI168	387,385.9600	3,162,006.9400
NI168	NI169	S 37°19'57.35" E	51.5137	NI169	387,417.2000	3,161,965.9800
NI169	NI170	S 50°56'24.13" E	46.7361	NI170	387,453.4900	3,161,936.5300
NI170	NI171	S 67°46'00.05" E	39.9071	NI171	387,490.4300	3,161,921.4300
NI171	NI172	S 71°26'15.67" E	39.8321	NI172	387,528.1900	3,161,908.7500
NI172	NI173	S 67°53'55.84" E	44.0141	NI173	387,568.9700	3,161,892.1900
NI173	NI174	S 66°06'13.76" E	45.6205	NI174	387,610.6800	3,161,873.7100
NI174	NI175	S 73°06'37.92" E	68.3976	NI175	387,676.1274	3,161,853.8387

NI175	NI176	S 74°16'26.96" E	34.5665	NI176	387,709.4000	3,161,844.4700
NI176	NI177	N 89°14'21.05" E	42.1737	NI177	387,751.5700	3,161,845.0300
NI177	NI178	N 75°28'18.99" E	35.3193	NI178	387,785.7600	3,161,853.8900
NI178	NI179	N 36°02'41.65" E	24.0305	NI179	387,799.9000	3,161,873.3200
NI179	NI180	N 38°53'28.55" E	17.0106	NI180	387,810.5800	3,161,886.5600
NI180	NI181	N 48°48'20.31" W	76.7064	NI181	387,752.8600	3,161,937.0800
NI181	NI182	N 21°04'04.43" W	4.0615	NI182	387,751.4000	3,161,940.8700
NI182	NI183	N 36°53'00.19" E	93.454	NI183	387,807.4900	3,162,015.6200
NI183	NI184	N 46°38'26.22" E	57.2991	NI184	387,849.1500	3,162,054.9600
NI184	NI185	N 70°03'30.06" E	51.9552	NI185	387,897.9900	3,162,072.6800
NI185	NI186	S 81°30'57.87" E	47.1762	NI186	387,944.6500	3,162,065.7200
NI186	NI187	N 79°15'36.07" E	44.754	NI187	387,988.6200	3,162,074.0600
NI187	NI188	N 71°06'48.92" E	44.1468	NI188	388,030.3900	3,162,088.3500
NI188	NI189	N 55°08'12.83" E	52.4302	NI189	388,073.4100	3,162,118.3200
NI189	NI190	N 23°44'33.58" E	15.3491	NI190	388,079.5900	3,162,132.3700
NI190	NI191	N 43°25'15.09" E	48.7523	NI191	388,113.1000	3,162,167.7800
NI191	NI192	N 75°33'24.41" E	51.5595	NI192	388,163.0300	3,162,180.6400
NI192	NI193	N 09°20'46.80" E	56.0339	NI193	388,172.1300	3,162,235.9300
NI193	NI194	N 33°33'33.72" E	23.1005	NI194	388,184.9000	3,162,255.1800
NI194	NI195	N 48°54'26.84" E	55.4104	NI195	388,226.6600	3,162,291.6000
NI195	ZI98	N 29°16'38.29" W	10.2165	ZI98	388,221.6638	3,162,300.5114
Superficie= 12,510.5830 m²						

Cuadro de construcción de la zona federal margen derecha del km 2+700 al km 3+500						
Est.	P.V.	Rumbo	Distancia (m)	Vértice	Coordenadas	
					X	Y
				ND372	388,252.4600	3,162,222.7000
ND372	ND373	S 54°29'37.19" W	14.8762	ND373	388,240.3500	3,162,214.0600
ND373	ND374	S 36°51'15.78" W	29.5440	ND374	388,222.6300	3,162,190.4200
ND374	ND375	S 35°09'10.31" W	50.1945	ND375	388,193.7300	3,162,149.3800
ND375	ND376	S 35°26'43.46" W	51.9721	ND376	388,163.5900	3,162,107.0400
ND376	ND377	S 43°24'49.69" W	50.0682	ND377	388,129.1800	3,162,070.6700
ND377	ND378	S 54°50'11.82" W	52.3172	ND378	388,086.4100	3,162,040.5400
ND378	ND379	S 68°39'04.73" W	50.7633	ND379	388,039.1300	3,162,022.0600
ND379	ND380	S 82°53'33.14" W	44.5322	ND380	387,994.9400	3,162,016.5500
ND380	ND381	N 77°33'18.80" W	47.3321	ND381	387,948.7200	3,162,026.7500
ND381	ND382	S 84°35'06.21" W	44.9305	ND382	387,903.9900	3,162,022.5100
ND382	ND383	S 26°40'58.31" W	13.0497	ND383	387,898.1300	3,162,010.8500
ND383	ND384	S 16°16'35.15" W	24.0124	ND384	387,891.4000	3,161,987.8000
ND384	ND385	S 12°28'52.25" W	6.5242	ND385	387,889.9900	3,161,981.4300
ND385	ND386	S 25°33'04.01" W	55.8523	ND386	387,865.9000	3,161,931.0400
ND386	ND387	S 06°19'26.00" E	46.5734	ND387	387,871.0300	3,161,884.7500
ND387	ND388	S 05°12'29.89" E	59.8170	ND388	387,876.4600	3,161,825.1800
ND388	ZD389	N 84°47'30.11" E	10.0000	ZD389	387,886.4187	3,161,826.0878
ZD389	ZD390	N 05°12'29.89" W	59.9143	ZD390	387,880.9799	3,161,885.7547
ZD390	ZD391	N 06°19'26.00" W	43.8151	ZD391	387,876.1537	3,161,929.3032
ZD391	ZD392	N 25°33'04.01" E	54.1422	ZD392	387,899.5061	3,161,978.1503

PLANO 5

Cuadro de construcción de la zona federal margen izquierda del km 4+100 al km 5+050						
Est.	P.V.	Rumbo	Distancia (m)	Vértice	Coordenadas	
					X	Y
				ZI126	387,355.2862	3,162,045.2740
ZI126	ZI127	N 52°52'45.65" W	52.4437	ZI127	387,313.4694	3,162,076.9236
ZI127	ZI128	N 54°23'46.67" W	48.3044	ZI128	387,274.1949	3,162,105.0452
ZI128	ZI129	N 51°32'03.85" W	48.7331	ZI129	387,236.0377	3,162,135.3594
ZI129	ZI130	N 53°11'03.02" W	52.7000	ZI130	387,193.8479	3,162,166.9396
ZI130	ZI131	N 72°23'27.29" W	48.0738	ZI131	387,148.0267	3,162,181.4829
ZI131	ZI132	N 63°22'27.47" W	50.1781	ZI132	387,103.1699	3,162,203.9707
ZI132	ZI133	N 66°28'20.22" W	50.6129	ZI133	387,056.7646	3,162,224.1750
ZI133	ZI134	N 77°31'41.79" W	47.8802	ZI134	387,010.0142	3,162,234.5151
ZI134	ZI135	N 78°38'50.33" W	51.9831	ZI135	386,959.0482	3,162,244.7479
ZI135	ZI136	S 79°18'06.89" W	54.1787	ZI136	386,905.8112	3,162,234.6905
ZI136	ZI137	S 72°10'05.31" W	42.5291	ZI137	386,865.3252	3,162,221.6670
ZI137	ZI138	S 73°56'33.69" W	42.4959	ZI138	386,824.4873	3,162,209.9127
ZI138	ZI139	S 84°47'59.76" W	47.5677	ZI139	386,777.1153	3,162,205.6015
ZI139	ZI140	S 56°38'01.08" W	54.0407	ZI140	386,731.9821	3,162,175.8796
ZI140	ZI141	S 79°00'40.39" W	41.3219	ZI141	386,691.4179	3,162,168.0030
ZI141	ZI142	S 68°00'09.59" W	54.4709	ZI142	386,640.9124	3,162,147.6001
ZI142	ZI143	S 58°29'00.66" W	65.2670	ZI143	386,585.2729	3,162,113.4822
ZI143	ZI144	S 16°45'02.01" W	60.4580	ZI144	386,567.8486	3,162,055.5895
ZI144	ZI145	S 06°59'15.22" E	45.5983	ZI145	386,573.3958	3,162,010.3300
ZI145	ZI146	S 19°50'13.30" E	26.6516	ZI146	386,582.4399	3,161,985.2598
ZI146	NI147	N 70°09'46.70" E	10.0000	NI147	386,591.8465	3,161,988.6533
NI147	NI148	N 19°50'13.30" W	25.5255	NI148	386,583.1845	3,162,012.6642
NI148	NI149	N 06°59'15.22" W	42.3705	NI149	386,578.0300	3,162,054.7200
NI149	NI150	N 16°45'02.01" E	54.5444	NI150	386,593.7500	3,162,106.9500
NI150	NI151	N 58°29'00.66" E	60.6224	NI151	386,645.4300	3,162,138.6400
NI151	NI152	N 68°00'09.59" E	52.6746	NI152	386,694.2700	3,162,158.3700
NI152	NI153	N 79°00'40.39" E	42.3363	NI153	386,735.8300	3,162,166.4400
NI153	NI154	N 56°38'01.08" E	53.5100	NI154	386,780.5200	3,162,195.8700
NI154	NI155	N 84°47'59.76" E	46.0094	NI155	386,826.3400	3,162,200.0400
NI155	NI156	N 73°56'33.69" E	43.6011	NI156	386,868.2400	3,162,212.1000
NI156	NI157	N 72°10'05.31" E	42.0806	NI157	386,908.2800	3,162,224.9800
NI157	NI158	N 79°18'06.89" E	51.6070	NI158	386,958.9900	3,162,234.5600
NI158	NI159	S 78°38'50.33" E	49.9371	NI159	387,007.9500	3,162,224.7300
NI159	NI160	S 77°31'41.79" E	46.8147	NI160	387,053.6600	3,162,214.6200
NI160	NI161	S 66°28'20.22" E	49.3747	NI161	387,098.9300	3,162,194.9100

NI161	NI162	S 63°22'27.47" E	50.6962	NI162	387,144.2500	3,162,172.1900
NI162	NI163	S 72°23'27.29" E	47.1703	NI163	387,189.2100	3,162,157.9200
NI163	NI164	S 53°11'03.02" E	50.8640	NI164	387,229.9300	3,162,127.4400
NI164	NI165	S 51°32'03.85" E	48.8389	NI165	387,268.1700	3,162,097.0600
NI165	NI166	S 54°23'46.67" E	48.4218	NI166	387,307.5400	3,162,068.8700
NI166	NI167	S 52°52'45.65" E	52.0965	NI167	387,349.0800	3,162,037.4300
NI167	ZI126	N 38°21'04.31" E	10.0023	ZI126	387,355.2862	3,162,045.2740
Superficie= 9,773.1527 m²						

Cuadro de construcción de la zona federal margen izquierda del km 5+100 al km 5+400						
Est.	P.V.	Rumbo	Distancia (m)	Vértice	Coordenadas	
					X	Y
				ZI209	386,655.3198	3,161,949.0705
ZI209	ZI210	S 51°54'04.35" E	50.2429	ZI210	386,694.8584	3,161,918.0697
ZI210	ZI211	S 28°28'37.35" E	26.4578	ZI211	386,707.4736	3,161,894.8131
ZI211	ZI212	S 45°01'57.80" E	22.8758	ZI212	386,723.6585	3,161,878.6466
ZI212	ZI213	S 08°04'27.12" E	49.7753	ZI213	386,730.6497	3,161,829.3647
ZI213	ZI214	S 29°37'00.13" W	43.1842	ZI214	386,709.3083	3,161,791.8225
ZI214	ZI215	S 35°40'53.63" W	7.6014	ZI215	386,704.8746	3,161,785.6481
ZI215	NI254	S 35°19'41.47" E	10.5756	NI254	386,710.9900	3,161,777.0200
NI254	NI255	N 35°40'53.63" E	11.5725	NI255	386,717.7400	3,161,786.4200
NI255	NI256	N 29°37'00.13" E	47.1271	NI256	386,741.0300	3,161,827.3900
NI256	NI257	N 08°04'27.12" W	56.5304	NI257	386,733.0900	3,161,883.3600
NI257	NI258	N 45°01'57.80" W	24.7629	NI258	386,715.5700	3,161,900.8600
NI258	NI259	N 28°28'37.35" W	27.0760	NI259	386,702.6600	3,161,924.6600
NI259	NI260	N 51°54'04.35" W	52.3160	NI260	386,661.4900	3,161,956.9400
NI260	ZI209	S 38°05'55.65" W	10.0000	ZI209	386,655.3198	3,161,949.0705
Superficie= 1,521.7782 m²						

Cuadro de construcción de la zona federal margen derecha del km 4+100 al km 5+400						
Est.	P.V.	Rumbo	Distancia (m)	Vértice	Coordenadas	
					X	Y
				ND428	387,314.1000	3,161,974.5600
ND428	ND429	N 34°43'54.49" W	53.3932	ND429	387,283.6800	3,162,018.4400
ND429	ND430	N 52°00'51.90" W	50.4336	ND430	387,243.9300	3,162,049.4800
ND430	ND431	N 53°41'06.57" W	46.4522	ND431	387,206.5000	3,162,076.9900
ND431	ND432	N 65°25'50.45" W	41.6072	ND432	387,168.6600	3,162,094.2900
ND432	ND433	N 80°28'01.91" W	40.0937	ND433	387,129.1200	3,162,100.9300

ND433	ND434	N 49°09'18.22" W	56.115	ND434	387,086.6700	3,162,137.6300
ND434	ND435	N 68°22'56.62" W	49.7815	ND435	387,040.3900	3,162,155.9700
ND435	ND436	N 66°02'06.32" W	48.0086	ND436	386,996.5200	3,162,175.4700
ND436	ND437	N 82°43'42.62" W	34.447	ND437	386,962.3500	3,162,179.8300
ND437	ND438	N 89°06'31.20" W	37.2845	ND438	386,925.0700	3,162,180.4100
ND438	ND439	S 61°40'45.34" W	44.6663	ND439	386,885.7500	3,162,159.2200
ND439	ND440	S 48°12'50.02" W	51.4593	ND440	386,847.3800	3,162,124.9300
ND440	ND441	S 42°05'27.97" W	56.5707	ND441	386,809.4600	3,162,082.9500
ND441	ND442	S 47°53'02.47" W	49.6098	ND442	386,772.6600	3,162,049.6800
ND442	ND443	N 71°52'39.70" W	66.646	ND443	386,709.3200	3,162,070.4100
ND443	ND444	N 68°06'31.74" W	37.9246	ND444	386,674.1300	3,162,084.5500
ND444	ND445	S 36°22'59.72" W	22.1348	ND445	386,661.0000	3,162,066.7300
ND445	ND446	S 02°42'13.05" E	7.208	ND446	386,661.3400	3,162,059.5300
ND446	ND447	S 28°39'50.89" E	24.9961	ND447	386,673.3300	3,162,037.5972
ND447	ND448	S 33°51'25.86" E	20.5042	ND448	386,684.7534	3,162,020.5700
ND448	ND450	S 33°51'25.86" E	32.3206	ND450	386,702.7600	3,161,993.7300
ND450	ND451	S 48°24'02.53" E	48.6356	ND451	386,739.1300	3,161,961.4400
ND451	ND452	S 28°33'10.77" E	50.9236	ND452	386,763.4700	3,161,916.7100
ND452	ND453	S 26°40'03.83" E	62.3864	ND453	386,791.4700	3,161,860.9600
ND453	ND454	S 07°16'01.58" W	50.5158	ND454	386,785.0800	3,161,810.8500
ND454	ND455	S 18°15'23.50" W	48.7436	ND455	386,769.8100	3,161,764.5600
ND455	ND456	S 35°31'28.09" W	50.4259	ND456	386,740.5100	3,161,723.5200
ND456	ZD505	S 45°51'15.23" E	10.1143	ZD505	386,747.7677	3,161,716.4755
ZD505	ZD506	N 35°31'28.09" E	53.4605	ZD506	386,778.8310	3,161,759.9853
ZD506	ZD507	N 18°15'23.50" E	51.224	ZD507	386,794.8780	3,161,808.6308
ZD507	ZD508	N 07°16'01.58" E	54.5288	ZD508	386,801.7756	3,161,862.7216
ZD508	ZD509	N 26°40'03.83" W	65.602	ZD509	386,772.3324	3,161,921.3452
ZD509	ZD510	N 28°33'10.77" W	52.8377	ZD510	386,747.0775	3,161,967.7565
ZD510	ZD511	N 48°24'02.53" W	49.1091	ZD511	386,710.3534	3,162,000.3609
ZD511	ZD512	N 33°51'25.86" W	51.0953	ZD512	386,681.8869	3,162,042.7919
ZD512	ZD513	N 28°39'50.89" W	22.2376	ZD513	386,671.2201	3,162,062.3042
ZD513	ZD514	N 02°42'13.05" W	1.3533	ZD514	386,671.1563	3,162,063.6559
ZD514	ZD515	N 36°22'59.72" E	10.8411	ZD515	386,677.5871	3,162,072.3838
ZD515	ZD516	S 68°06'31.74" E	30.5097	ZD516	386,705.8968	3,162,061.0084
ZD516	ZD517	S 71°52'39.70" E	72.7763	ZD517	386,775.0630	3,162,038.3716
ZD517	ZD518	N 47°53'02.47" E	55.917	ZD518	386,816.5416	3,162,075.8714
ZD518	ZD519	N 42°05'27.87" E	56.5419	ZD519	386,854.4423	3,162,117.8300
ZD519	ZD520	N 48°12'50.02" E	49.744	ZD520	386,891.5333	3,162,150.9770
ZD520	ZD521	N 61°40'45.34" E	40.8799	ZD521	386,927.5201	3,162,170.3707
ZD521	ZD522	S 89°06'31.20" E	34.1212	ZD522	386,961.6372	3,162,169.8399
ZD522	ZD523	S 82°43'42.62" E	32.4225	ZD523	386,993.7989	3,162,165.7361

PLANO 6

Cuadro de construcción de la zona federal margen izquierda del km 5+400 al km 6+350.99

Est.	P.V.	Rumbo	Distancia (m)	Vértice	Coordenadas	
					X	Y
				ZI215	386,704.8746	3,161,785.6481
ZI215	ZI216	S 73°39'43.44" W	80.9894	ZI216	386,627.1556	3,161,762.8656
ZI216	ZI217	S 82°35'00.57" W	82.5004	ZI217	386,545.3454	3,161,752.2164
ZI217	ZI218	S 00°41'28.93" W	59.5553	ZI218	386,544.6268	3,161,692.6654
ZI218	ZI219	S 03°02'06.47" E	58.2977	ZI219	386,547.7136	3,161,634.4494
ZI219	ZI220	S 12°07'32.07" W	57.1818	ZI220	386,535.7022	3,161,578.5434
ZI220	ZI221	S 40°24'10.80" W	18.1720	ZI221	386,523.9239	3,161,564.7053
ZI221	ZI222	S 43°55'07.41" W	43.1596	ZI222	386,493.9868	3,161,533.6164
ZI222	ZI223	S 43°55'07.41" W	44.7688	ZI223	386,462.9334	3,161,501.3683
ZI223	ZI224	S 37°57'33.54" W	46.7765	ZI224	386,434.1611	3,161,464.4875
ZI224	ZI225	S 55°04'30.12" W	43.8703	ZI225	386,398.1917	3,161,439.3716
ZI225	ZI226	S 64°30'44.77" W	47.5071	ZI226	386,355.3081	3,161,418.9286
ZI226	ZI227	S 58°26'25.76" W	49.1972	ZI227	386,313.3873	3,161,393.1795
ZI227	ZI228	S 56°26'19.97" W	47.5157	ZI228	386,273.7926	3,161,366.9116
ZI228	ZI229	S 64°41'14.60" W	53.6005	ZI229	386,225.3384	3,161,343.9943
ZI229	ZI230	S 29°30'20.67" W	48.1080	ZI230	386,201.6447	3,161,302.1257
ZI230	ZI231	S 38°58'18.44" W	42.4974	ZI231	386,174.9165	3,161,269.0858
ZI231	ZI232	S 48°37'28.85" W	50.8433	ZI232	386,136.7639	3,161,235.4790
ZI232	ZI233	S 43°20'28.36" W	50.2425	ZI233	386,102.2803	3,161,198.9386
ZI233	ZI234	S 57°50'28.16" W	53.7377	ZI234	386,056.7873	3,161,170.3358
ZI234	NI235	S 32°09'31.84" E	10.0000	NI235	386,062.1100	3,161,161.8700
NI235	NI236	N 57°50'28.16" E	55.0098	NI236	386,108.6800	3,161,191.1500
NI236	NI237	N 43°20'28.36" E	51.0533	NI237	386,143.7200	3,161,228.2800
NI237	NI238	N 48°37'28.85" E	51.2263	NI238	386,182.1600	3,161,262.1400
NI238	NI239	N 38°58'18.44" E	44.1697	NI239	386,209.9400	3,161,296.4800
NI239	NI240	N 29°30'20.67" E	45.7655	NI240	386,232.4800	3,161,336.3100
NI240	NI241	N 64°41'14.60" E	51.1511	NI241	386,278.7200	3,161,358.1800
NI241	NI242	N 56°26'19.97" E	48.0621	NI242	386,318.7700	3,161,384.7500
NI242	NI243	N 58°26'25.76" E	48.4921	NI243	386,360.0900	3,161,410.1300
NI243	NI244	N 64°30'44.77" E	47.8022	NI244	386,403.2400	3,161,430.7000
NI244	NI245	N 55°04'30.12" E	46.2006	NI245	386,441.1200	3,161,457.1500
NI245	NI246	N 37°57'33.54" E	47.7608	NI246	386,470.4977	3,161,494.8069
NI246	NI247	N 43°55'07.41" E	44.2483	NI247	386,501.1900	3,161,526.6800
NI247	NI248	N 43°55'07.41" E	43.4665	NI248	386,531.3400	3,161,557.9900
NI248	NI249	N 40°24'10.80" E	20.9979	NI249	386,544.9500	3,161,573.9800
NI249	NI250	N 12°07'32.07" E	61.0316	NI250	386,557.7700	3,161,633.6500
NI250	NI251	N 03°02'06.47" W	59.3032	NI251	386,554.6300	3,161,692.8700
NI251	NI252	N 00°41'28.93" E	50.5537	NI252	386,555.2400	3,161,743.4200
NI252	NI253	N 82°35'00.57" E	74.6041	NI253	386,629.2200	3,161,753.0500
NI253	NI254	N 73°39'43.44" E	85.2109	NI254	386,710.9900	3,161,777.0200
NI254	ZI215	N 35°19'41.47" W	10.5756	ZI215	386,704.8746	3,161,785.6481
Superficie= 9,773.1527 m²						

Superficie= 9,773.1527 m²

Cuadro de construcción de la zona federal margen izquierda del km 6+424.62 al km 6+550						
Est.	P.V.	Rumbo	Distancia (m)	Vértice	Coordenadas	
					X	Y
				ZI261	386,032.5661	3,161,124.8120
ZI261	ZI262	S 46°47'04.80" W	22.9680	ZI262	386,015.8274	3,161,109.0848
ZI262	ZI263	S 74°18'25.33" W	62.1087	ZI263	385,956.0339	3,161,092.2855
ZI263	ZI264	S 29°59'00.28" W	68.7256	ZI264	385,921.6883	3,161,032.7575
ZI264	NI265	S 60°00'59.72" E	10.0000	NI265	385,930.3500	3,161,027.7600
NI265	NI266	N 29°59'00.28" E	64.6524	NI266	385,962.6600	3,161,083.7600
NI266	NI267	N 74°18'25.33" E	60.4846	NI267	386,020.8900	3,161,100.1200
NI267	NI268	N 46°47'04.80" E	25.4170	NI268	386,039.4136	3,161,117.5241
NI268	ZI261	N 43°12'55.20" W	10.0000	ZI261	386,032.5661	3,161,124.8120
Superficie= 1,521.7782 m ²						

Cuadro de construcción de la zona federal margen derecha del km 5+400 al km 6+550						
Est.	P.V.	Rumbo	Distancia (m)	Vértice	Coordenadas	
					X	Y
				ND456	386,740.5100	3,161,723.5200
ND456	ND457	S 52°46'01.46" W	28.7246	ND457	386,717.6400	3,161,706.1400
ND457	ND458	S 61°24'44.91" W	59.8118	ND458	386,665.1200	3,161,677.5200
ND458	ND459	S 29°42'13.39" W	50.0691	ND459	386,640.3100	3,161,634.0300
ND459	ND460	S 35°48'34.20" W	49.4965	ND460	386,611.3500	3,161,593.8900
ND460	ND461	S 16°49'42.29" W	38.2375	ND461	386,600.2800	3,161,557.2900
ND461	ND462	S 03°04'56.72" W	54.4888	ND462	386,597.3500	3,161,502.8800
ND462	ND463	S 51°16'27.60" W	46.1962	ND463	386,561.3100	3,161,473.9800
ND463	ND464	S 53°39'51.75" W	47.8301	ND464	386,522.7800	3,161,445.6400
ND464	ND465	S 54°08'50.67" W	51.8182	ND465	386,480.7800	3,161,415.2900
ND465	ND466	S 37°44'46.39" W	49.9538	ND466	386,450.2000	3,161,375.7900
ND466	ND467	S 73°15'14.93" W	47.0973	ND467	386,405.1000	3,161,362.2200
ND467	ND468	S 59°27'46.78" W	58.9457	ND468	386,354.3300	3,161,332.2700
ND468	ND469	S 47°37'49.28" W	46.9943	ND469	386,319.6100	3,161,300.6000
ND469	ND470	S 61°51'10.45" W	32.0730	ND470	386,291.3300	3,161,285.4700
ND470	ND471	S 53°39'28.78" W	44.7179	ND471	386,255.3100	3,161,258.9700
ND471	ND472	S 51°05'52.98" W	42.8670	ND472	386,221.9500	3,161,232.0500
ND472	ND473	S 56°59'05.11" W	50.1595	ND473	386,179.8900	3,161,204.7200
ND473	ND474	S 49°05'56.44" W	49.5606	ND474	386,142.4300	3,161,172.2700
ND474	ND475	S 49°00'51.56" W	48.1803	ND475	386,106.0600	3,161,140.6700
ND475	ND476	S 47°41'31.60" W	39.4435	ND476	386,076.8900	3,161,114.1200
ND476	ND477	S 49°20'24.26" W	28.9218	ND477	386,054.9502	3,161,095.2755
ND477	ND478	S 40°41'48.03" W	25.9644	ND478	386,038.0200	3,161,075.5900
ND478	ND479	S 58°21'48.19" W	45.1261	ND479	385,999.6000	3,161,051.9200

ND479	ND480	S 42°12'44.34" W	45.2164	ND480	385,969.2200	3,161,018.4300
ND480	ZD481	S 47°47'15.66" E	10.0000	ZD481	385,976.6266	3,161,011.7112
ZD481	ZD482	N 42°12'44.34" E	43.7976	ZD482	386,006.0533	3,161,044.1503
ZD482	ZD483	N 58°21'48.19" E	45.2613	ZD483	386,044.5884	3,161,067.8912
ZD483	ZD484	N 40°41'48.03" E	26.7627	ZD484	386,062.0391	3,161,088.1820
ZD484	ZD485	N 49°20'24.26" E	28.3099	ZD485	386,083.5148	3,161,106.6278
ZD485	ZD486	N 47°41'31.60" E	39.4720	ZD486	386,112.7058	3,161,133.1969
ZD486	ZD487	N 49°00'51.56" E	48.0575	ZD487	386,148.9831	3,161,164.7164
ZD487	ZD488	N 49°05'56.44" E	48.8640	ZD488	386,185.9166	3,161,196.7103
ZD488	ZD489	N 56°59'05.11" E	49.9844	ZD489	386,227.8298	3,161,223.9449
ZD489	ZD490	N 51°05'52.98" E	43.1577	ZD490	386,261.4160	3,161,251.0475
ZD490	ZD491	N 53°39'28.78" E	43.7781	ZD491	386,296.6790	3,161,276.9905
ZD491	ZD492	N 61°51'10.45" E	32.6042	ZD492	386,325.4274	3,161,292.3711
ZD492	ZD493	N 47°37'49.28" E	47.2056	ZD493	386,360.3035	3,161,324.1835
ZD493	ZD494	N 59°27'46.78" E	56.7001	ZD494	386,409.1393	3,161,352.9925
ZD494	ZD495	N 73°15'14.93" E	49.0897	ZD495	386,456.1473	3,161,367.1366
ZD495	ZD496	N 37°44'46.39" E	51.7145	ZD496	386,487.8051	3,161,408.0288
ZD496	ZD497	N 54°08'50.67" E	50.4192	ZD497	386,528.6712	3,161,437.5594
ZD497	ZD498	N 53°39'51.75" E	48.0808	ZD498	386,567.4032	3,161,466.0480
ZD498	ZD499	N 51°16'27.60" E	50.8772	ZD499	386,607.0950	3,161,497.8764
ZD499	ZD500	N 03°04'56.72" E	57.7559	ZD500	386,610.2007	3,161,555.5487
ZD500	ZD501	N 16°49'42.29" E	35.3604	ZD501	386,620.4378	3,161,589.3948
ZD501	ZD502	N 35°48'34.20" E	48.3581	ZD502	386,648.7317	3,161,628.6116
ZD502	ZD503	N 29°42'13.39" E	47.7625	ZD503	386,672.3987	3,161,670.0981
ZD503	ZD504	N 61°24'44.91" E	57.7277	ZD504	386,723.0887	3,161,697.7208
ZD504	ZD505	N 52°46'01.46" E	30.9966	ZD505	386,747.7677	3,161,716.4755
ZD505	ND456	N 45°51'15.23" W	10.1143	ND456	386,740.5100	3,161,723.5200

Superficie= 10,819.9601 m²

