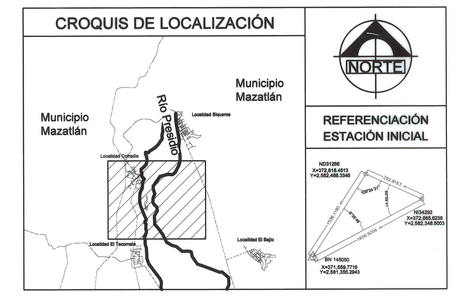
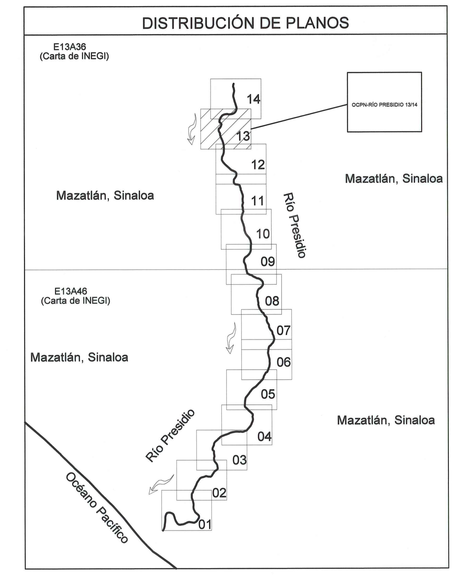
CROQUIS DE LOCALIZACIÓN



DISTRIBUCIÓN DE PLANOS



SIMBOLOGÍA

10.0	Curva de nivel maestra		Límite de cauce (N.A.M.O.)
	Curva de nivel ordinaria		Límite de zona federal
	Dirección del flujo		Poligonal de apoyo
	Planimetría		Liga de plano

NOTAS

1.- El Río Presidio o Mazatlán cuenta con Declaratoria de Propiedad Nacional No. 4097 de fecha 24 de agosto de 1917, publicada en el Diario Oficial de la Federación el día 12 de septiembre de 1917.

2.- El sistema de coordenadas:
U.T.M. en el Datum ITRF-92, Zona Geográfica 13.

3.- El gasto de diseño de la Delimitación de Zona Federal a Tr=5 años es:

Margen	Tramo	Q(m^3/s)
Margen Derecha	0+000 al 31+256	1770
Margen Izquierda	0+000 al 34+292	1770

4.- El N.A.M.O. de este proyecto, es resultado de un análisis hidráulico bidimensional.

Cuadro de construcción de zona federal margen derecha del km 26+800 al km 29+152

Est.	P.V.	Rumbo	Distancia (m)	Vértice	Coordenadas X	Coordenadas Y
				ND26800	371,916.3868	2,578,583.7892
ND26800	ND26842	N 50°11'02.72" E	42.2985	ND26842	371,948.8766	2,578,610.8739
ND26842	ND26889	N 05°20'39.88" E	47.0519	ND26889	371,953.2591	2,578,657.7213
ND26889	ND26922	N 41°21'02.57" E	33.2409	ND26922	371,975.2202	2,578,682.6746
ND26922	ND27024	N 01°54'44.51" E	101.0324	ND27024	371,978.5918	2,578,783.6507
ND27024	ND27058	N 40°50'53.33" W	34.1366	ND27058	371,956.2645	2,578,809.4732
ND27058	ND27214	N 08°21'31.53" E	155.8628	ND27214	371,973.5269	2,578,964.3771
ND27214	ND27251	N 58°38'30.30" W	37.7095	ND27251	371,941.3256	2,578,984.0006
ND27251	ND27308	N 10°50'46.34" W	56.8094	ND27308	371,930.6356	2,579,039.7952
ND27308	ND27360	N 50°29'29.59" E	52.4512	ND27360	371,971.0742	2,579,073.1995
ND27360	ND27390	N 06°51'21.89" E	29.1674	ND27390	371,974.5561	2,579,102.1583
ND27390	ND27542	N 23°18'05.15" W	151.9313	ND27542	371,914.5380	2,579,241.7325
ND27542	ND27737	N 21°54'14.05" W	195.5395	ND27737	371,841.5918	2,579,423.1561
ND27737	ND27864	N 20°58'55.03" W	126.7788	ND27864	371,796.1957	2,579,541.5286
ND27864	ND27965	N 09°43'37.28" W	101.1894	ND27965	371,779.0993	2,579,641.2633
ND27965	ND28130	N 00°28'57.09" W	164.4094	ND28130	371,777.7147	2,579,805.6669
ND28130	ND28241	N 06°05'56.97" E	111.8808	ND28241	371,789.6020	2,579,916.9144
ND28241	ND28312	N 20°33'16.60" E	71.0372	ND28312	371,814.5431	2,579,983.4292
ND28312	ND28395	N 29°58'38.64" E	82.2768	ND28395	371,855.6534	2,580,054.6993
ND28395	ND28611	N 04°41'19.56" E	216.4246	ND28611	371,873.3446	2,580,270.3996
ND28611	ND28699	N 32°17'30.49" E	87.7401	ND28699	371,920.2181	2,580,344.5696
ND28699	ND28748	N 48°19'06.31" W	48.8017	ND28748	371,883.7705	2,580,377.0223
ND28748	ND28834	N 31°43'28.01" W	86.8054	ND28834	371,838.1252	2,580,450.8579
ND28834	ND28888	N 03°42'28.90" W	53.3385	ND28888	371,834.6757	2,580,504.0847
ND28888	ND28911	N 49°36'01.03" E	23.0376	ND28911	371,852.2197	2,580,519.0157
ND28911	ND28930	N 17°28'25.53" W	19.1228	ND28930	371,846.4777	2,580,537.2561
ND28930	ND28975	N 31°41'14.11" W	45.1437	ND28975	371,822.7646	2,580,575.6701
ND28975	ND29005	N 07°50'05.23" W	30.2562	ND29005	371,818.6401	2,580,605.6438
ND29005	ND29040	N 04°03'44.18" E	34.8652	ND29040	371,821.1100	2,580,640.4214
ND29040	ND29152	N 48°38'11.98" E	111.3663	ND29152	371,904.6957	2,580,714.0171
ND29152	ZD29152	N 44°06'58.69" W	10.0116	ZD29152	371,897.7265	2,580,721.2047
ZD29152	ZD29040	S 48°38'11.98" W	114.9861	ZD29040	371,811.4255	2,580,645.2182
ZD29040	ZD29005	S 04°03'44.18" W	40.0059	ZD29005	371,808.5914	2,580,605.3129
ZD29005	ZD28975	S 07°50'05.23" E	33.4102	ZD28975	371,813.1458	2,580,572.2145
ZD28975	ZD28930	S 31°41'14.11" E	46.0090	ZD28930	371,837.3136	2,580,533.0641
ZD28930	ZD28911	S 17°28'25.53" E	11.2479	ZD28911	371,840.6909	2,580,522.3353
ZD28911	ZD28888	S 49°36'01.03" W	21.4289	ZD28888	371,824.3720	2,580,508.4469
ZD28888	ZD28834	S 03°42'28.90" E	60.6528	ZD28834	371,828.3074	2,580,447.7216
ZD28834	ZD28748	S 31°43'28.01" E	90.7585	ZD28748	371,876.0314	2,580,370.5235
ZD28748	ZD28699	S 48°19'06.31" E	41.7779	ZD28699	371,907.2333	2,580,342.7416
ZD28699	ZD28611	S 32°17'30.49" W	81.7144	ZD28611	371,863.5789	2,580,273.6653
ZD28611	ZD28395	S 04°41'19.56" W	216.6377	ZD28395	371,845.8703	2,580,057.7526
ZD28395	ZD28312	S 29°58'38.64" W	80.8576	ZD28312	371,805.4691	2,579,987.7119
ZD28312	ZD28241	S 20°33'16.60" W	73.1295	ZD28241	371,779.7933	2,579,919.2380
ZD28241	ZD28130	S 06°05'56.97" W	113.7240	ZD28130	371,787.7102	2,579,806.1577
ZD28130	ZD27965	S 00°28'57.09" E	165.7929	ZD27965	371,769.1065	2,579,640.3706
ZD27965	ZD27864	S 09°43'37.28" E	102.9832	ZD27864	371,786.5059	2,579,538.8679
ZD27864	ZD27737	S 20°58'55.03" E	127.8446	ZD27737	371,832.2837	2,579,419.5003
ZD27737	ZD27542	S 21°54'14.05" E	195.7390	ZD27542	371,905.3043	2,579,237.8915
ZD27542	ZD27390	S 23°18'05.15" E	149.3592	ZD27390	371,964.3063	2,579,100.6802
ZD27390	ZD27360	S 06°51'21.89" W	22.4780	ZD27360	371,961.6230	2,579,078.3629
ZD27360	ZD27308	S 50°29'29.59" W	54.3773	ZD27308	371,918.6994	2,579,043.7319
ZD27308	ZD27251	S 10°50'46.34" E	67.1646	ZD27251	371,932.3380	2,578,977.7871
ZD27251	ZD27214	S 58°38'30.30" E	35.7697	ZD27214	371,962.8828	2,578,959.1530
ZD27214	ZD27058	S 08°21'31.53" W	153.8616	ZD27058	371,945.8421	2,578,806.2380
ZD27058	ZD27024	S 40°50'53.33" E	34.5912	ZD27024	371,968.4667	2,578,780.0716
ZD27024	ZD26922	S 01°54'44.51" W	93.5331	ZD26922	371,965.3454	2,578,686.5906
ZD26922	ZD26889	S 41°21'02.57" W	32.9798	ZD26889	371,943.5568	2,578,661.6333
ZD26889	ZD26842	S 05°17'42.68" W	46.1201	ZD26842	371,939.3005	2,578,615.9100
ZD26842	ZD26800	S 50°11'02.72" W	38.1877	ZD26800	371,909.9836	2,578,591.4703
ZD26800	ND26800	S 39°48'57.28" E	10.0000	ND26800	371,916.3868	2,578,583.7892

Superficie: 23,496.0744 m²

Cuadro de construcción de zona federal margen izquierda del km 29+909 al km 32+439

Est.	P.V.	Rumbo	Distancia (m)	Vértice	Coordenadas X	Coordenadas Y
				ZI29909	372,488.3137	2,578,638.3396
ZI29909	ZI30111	N 34°09'57.75" W	203.9175	ZI30111	372,373.7950	2,578,807.0637
ZI30111	ZI30311	N 41°19'32.61" W	196.4386	ZI30311	372,244.0790	2,578,954.5827
ZI30311	ZI30571	N 02°06'36.28" W	254.2833	ZI30571	372,234.7164	2,579,208.6936
ZI30571	ZI30754	N 30°45'16.22" E	183.6752	ZI30754	372,328.6407	2,579,366.5379
ZI30754	ZI30870	N 10°49'52.51" W	122.2785	ZI30870	372,305.6625	2,579,486.6380
ZI30870	ZI30994	N 44°03'41.96" W	125.6721	ZI30994	372,218.2661	2,579,576.9450
ZI30994	ZI31064	N 29°07'22.97" W	66.0442	ZI31064	372,186.1232	2,579,634.6396
ZI31064	ZI31184	N 03°35'15.19" E	115.3267	ZI31184	372,193.3397	2,579,749.7403
ZI31184	ZI31332	N 22°53'36.33" E	149.8696	ZI31332	372,251.6417	2,579,887.8048
ZI31332	ZI31457	N 19°47'53.43" W	127.5729	ZI31457	372,208.4317	2,580,007.8371
ZI31457	ZI31571	N 04°52'22.23" W	109.4551	ZI31571	372,199.1341	2,580,116.8965
ZI31571	ZI31941	N 35°09'22.22" E	362.7482	ZI31941	372,408.0070	2,580,413.4742
ZI31941	ZI32190	N 79°00'07.27" E	243.9548	ZI32190	372,643.6515	2,580,476.6061
ZI32190	ZI32328	S 84°54'34.71" E	140.1532	ZI32328	372,783.2520	2,580,464.1707
ZI32328	ZI32439	N 51°44'40.49" E	116.4401	ZI32439	372,874.6876	2,580,536.2667
ZI32439	N32439	N 50°23'38.75" W	10.2287	N32439	372,866.8069	2,580,542.7876
N32439	N32328	S 51°44'40.49" W	110.3152	N32328	372,780.1809	2,580,474.4839
N32328	N32190	N 84°54'34.71" W	137.9504	N32190	372,642.7746	2,580,486.7238
N32190	N31941	S 79°00'07.27" W	249.3505	N31941	372,401.9182	2,580,422.1956
N31941	N31571	S 35°09'22.22" W	370.0152	N31571	372,188.8608	2,580,119.6765
N31571	N31457	S 04°52'22.23" E	114.4075	N31457	372,198.5791	2,580,005.6825
N31457	N31332	S 19°47'53.43" E	124.9748	N31332	372,240.9091	2,579,888.0947
N31332	N31184	S 22°53'36.33" W	147.6625	N31184	372,183.4657	2,579,752.0636
N31184	N31064	S 03°35'15.19" W	119.9623	N31064	372,175.9592	2,579,632.3364
N31064	N30994	S 29°07'22.97" E	70.2899	N30994	372,210.1684	2,579,570.9328
N30994	N30870	S 44°03'41.96" E	123.9992	N30870	372,296.4014	2,579,481.8280
N30870	N30754	S 10°49'52.51" E	115.4973	N30754	372,318.1053	2,579,368.3883
N30754	N30571	S 30°45'16.22" W	182.8273	N30571	372,224.6146	2,579,211.2727
N30571	N30311	S 02°06'36.28" E	260.7950	N30311	372,234.2169	2,578,950.6546
N30311	N30111	S 41°19'32.61" E	199.3753	N30111	372,365.8722	2,578,800.9301
N30111	N29909	S 34°09'57.75" E	202.6482	N29909	372,479.6781	2,578,633.2562
N29909	ZI29909	N 59°31'00.92" E	10.0207	ZI29909	372,488.3137	2,578,638.3396

Superficie: 25,239.5201 m²

CONAGUA
COMISIÓN NACIONAL DEL AGUA

SUBDIRECCIÓN GENERAL TÉCNICA
GERENCIA DE AGUAS SUPERFICIALES E INGENIERÍA DE RÍOS

APROBÓ:

M. en I. Alfredo R. Cocón Gutiérrez
GERENTE DE AGUAS SUPERFICIALES E INGENIERÍA DE RÍOS

CONAGUA
COMISIÓN NACIONAL DEL AGUA

ORGANISMO DE CUENCA
PACÍFICO NORTE
DIRECCIÓN TÉCNICA

REVISÓ:

Ing. José Martínez Angulo
ESPECIALISTA TÉCNICO

APROBÓ:

Ing. José Ernesto Parra Flores
JEFE DE PROYECTO DE AGUAS SUPERFICIALES Y METEOROLOGÍA

SEMARNAT
SECRETARÍA DE MEDIO AMBIENTE Y RECURSOS NATURALES

COMISIÓN NACIONAL DEL AGUA
ORGANISMO DE CUENCA
PACÍFICO NORTE
DIRECCIÓN TÉCNICA

CONAGUA
COMISIÓN NACIONAL DEL AGUA

Proyecto de delimitación de zona federal del Río Presidio
Margen derecha del km 0+000 al km 31+256
Margen izquierda del km 0+000 al km 34+292
Tramo margen derecha del km 26+800 al km 29+152
Tramo margen izquierda del km 29+909 al km 32+439

Plano No. OCPN-RÍO PRESIDIO 13/14
R.F.I.

Entidad: Sinaloa
Localidad: Cofradía
Municipio: Mazatlán

Escala: 1 : 3,000

RESPONSABLE DE LA DEPENDENCIA:			RESPONSABLE DEL PROYECTO:	
Mtro. José Antonio Quintero Contreras DIRECTOR GENERAL DEL ORGANISMO DE CUENCA PACÍFICO NORTE			Ing. Rafael Sanz Ramos DIRECTOR TÉCNICO DEL ORGANISMO DE CUENCA PACÍFICO NORTE	
PROYECTÓ: Ing. Edgar Enrique Castillo Ponce Cédula Prof. 2598975	LEVANTÓ: Ing. Edgar Enrique Castillo Ponce Cédula Prof. 2598975	CALCULÓ: Ing. Edgar Enrique Castillo Ponce Cédula Prof. 2598975	REVISÓ: Ing. Edgar Enrique Castillo Ponce Cédula Prof. 2598975	DIBUJÓ: Ing. Jesús Jaime Manzillas Rodeo	FECHA: Junio 2018