

TABLE 6-I Pipeline Lengths For The Primary Distribution System In The Federal District (D.F.)

DELEGACION	(Pipeline Lengths (in km) for various Diameters (in inches))										TOTAL
	20"	24"	30"	32"	36"	42"	48"	72"			
Benito Juarez	9.3	-	-	-	8.4	-	22.4	-	-	-	40.1
Coyoacan	14.8	-	-	-	3.3	-	20.9	-	-	-	39.0
Tlalpan	1.0	0.7	-	-	-	-	0.6	-	-	-	2.3
Iztacalco	5.7	-	3.4	-	5.0	2.4	17.4	-	-	-	33.9
Azcapotzalco	8.5	-	-	-	7.5	-	29.1	-	-	-	45.1
Venustiano Carranza	12.7	-	-	4.0	11.1	7.8	12.9	-	-	-	48.5
Cuauhtemoc	2.9	-	-	6.1	14.1	-	28.5	-	-	-	51.6
Gustavo A. Madero	44.0	-	-	-	16.9	-	40.8	12.4	-	-	114.1
Cuajimalpa	2.8	-	-	-	-	-	-	-	-	-	2.8
Magdalena Contreras	1.7	-	-	-	1.4	-	4.2	-	-	-	7.3
Miguel Hidalgo	18.4	-	-	-	7.2	3.5	13.4	-	-	-	42.5
Alvaro Obregon	2.6	-	-	-	*	-	31.9	-	-	-	34.54
Iztapalapa	28.1	-	2.9	-	8.2	*	53.1	-	-	-	92.4
Xochimilco	1.5	-	-	-	9.0**	-	-	-	-	-	10.5
Milpa Alta	0.9	-	-	-	-	-	-	-	-	-	0.9
Tlahuac	3.2	-	-	-	-	-	-	-	-	-	3.2
TOTALS	158.0	0.7	6.3	10.1	92.1**	13.7**	275.3	12.4	-	-	568.6

* Not Available

** Estimated

TABLE 6-II Leak Rate And Number Of Leaks For Primary Distribution System Lines In The Federal District

DELAGACION	(Leak Rate (in Repairs/km.) for Various Diameters)								TOTALS OF BREAKS
	20"	24"	30"	32"	36"	42"	48"	72"	
Benito Juarez	0.0(0)	-	-	-	0.96(8)	-	0.09(2)	-	10
Coyoacan	0.0(0)	-	-	-	0.0(0)	-	0.0(0)	-	0
Tlalpan	0.0(0)	0.0(0)	-	-	-	-	0.0(0)	-	0
Iztacalco	0.88(5)	-	0.59(2)	-	0.20(1)	0.0(0)	0.63(11)	-	19
Azcapotzalco	0.0(0)	-	-	-	0.13(1)	-	0.03(1)	-	2
Venustiano Carranza	0.79(10)	-	-	1.74(7)	1.44(16)	0.0(0)	0.31(4)	-	37
Cuauhtemoc	1.38(4)	-	-	1.31(8)	0.78(11)	-	0.32(9)	-	32
Gustavo A. Madero	0.30(13)	-	-	-	0.36(6)	-	0.32(13)	0.0(0)	32
Cuajimalpa	0.0(0)	-	-	-	-	-	-	-	0
Magdalena Contreras	*	-	-	-	*	-	*	-	*
Miguel Hidalgo	0.05(1)	-	-	-	0.0(0)	0.0(0)	0.0(0)	-	1
Alvaro Obregon	0.0(0)	-	-	-	?(6)	0.0(0)	0.06(2)	-	8
Iztapalapa	0.07(2)	-	0.34(1)	-	0.12(1)	7(3)	0.41(22)	-	29
Xochimilco	0.0(0)	-	-	-	0.56(5)	-	-	-	5
Milpa Alta	0.0(0)	-	-	-	-	-	-	-	0
Tlahuac	0.0(0)	-	-	-	-	-	-	-	0

Federal District Average = 31

* unconfirmed information
number of breaks in ()

TABLE 6-III Summary Of Damage Statistics For The Primary Distribution Network
In The Federal District

Diameter (in)	Length (km)	Repairs	Rate (Repairs/km)	% Repair	% Length
20"	118.0	35	.2215	.120	28.40
30"	6.3	3	.4748	.72	1.13
32"	10.1	15	1.4822	8.57	1.81
36"	92.1	55	.597	31.43	16.58
42"	13.7	3	.2187	1.72	2.45
48"	275.4	64	.232	36.66	49.55

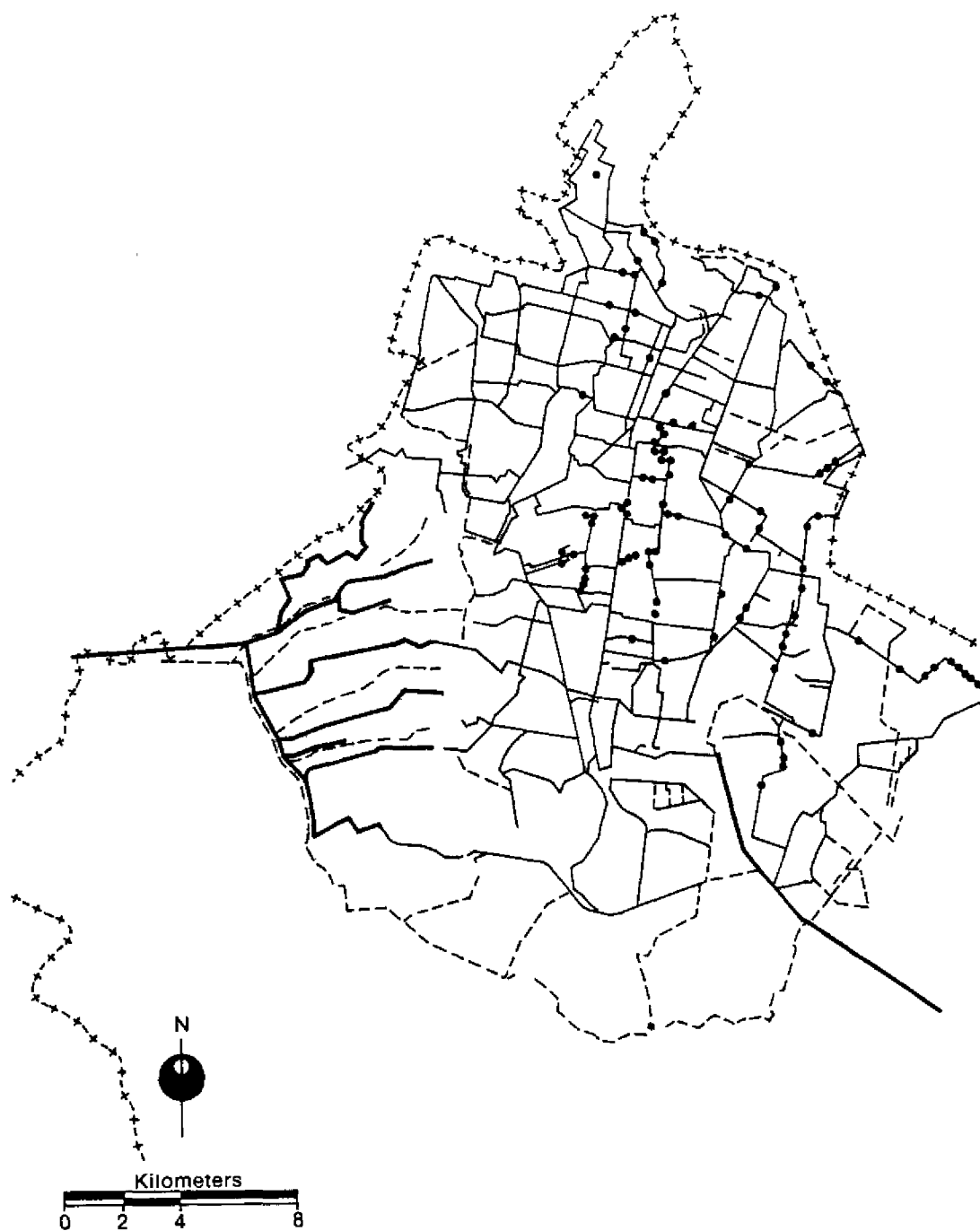


FIGURE 6-14 Well Documented Pipeline Damage In Primary Distribution System Of Federal District - 1985 Michoacan Earthquake

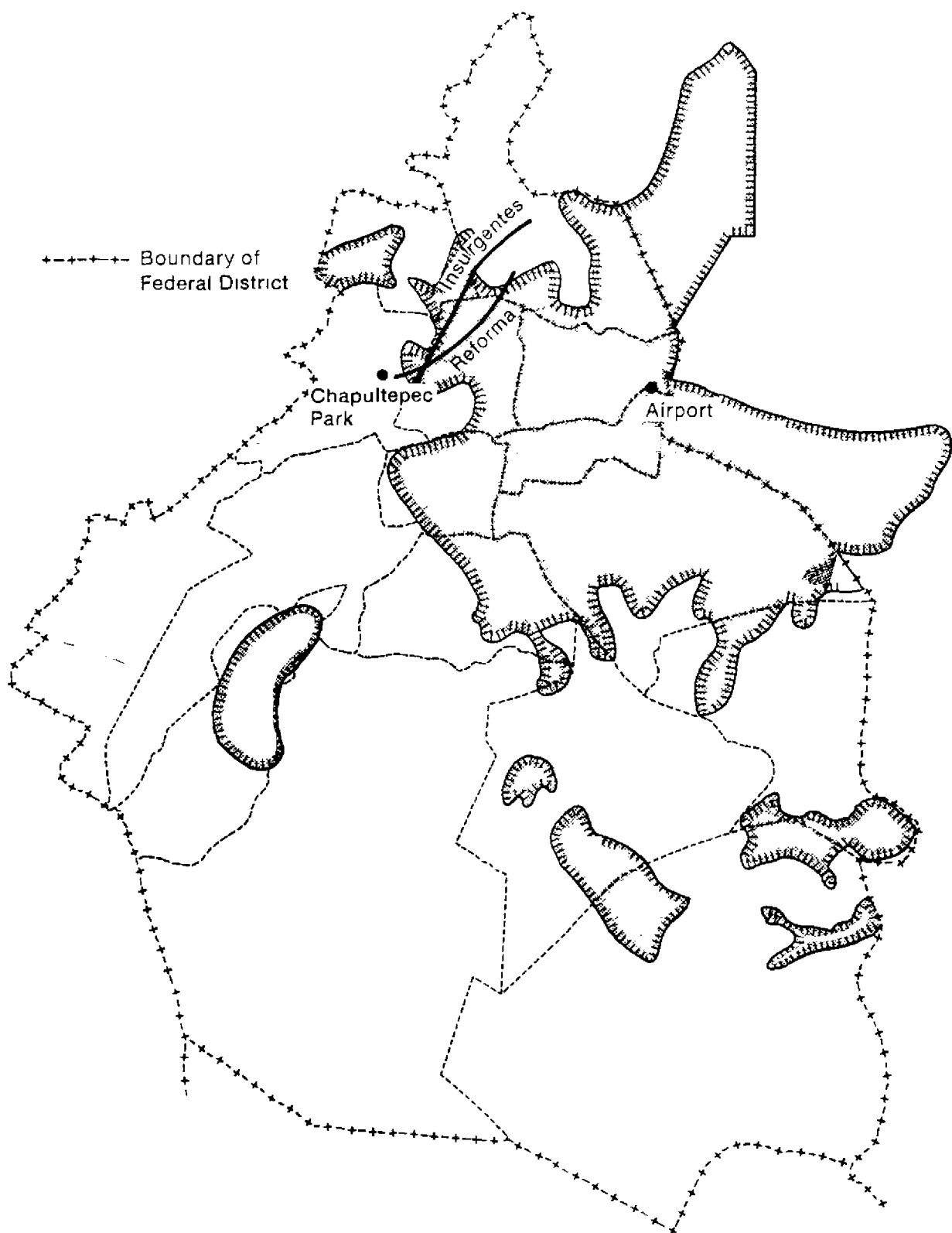


FIGURE 6-15 Areas Of Secondary Distribution System Damage - 1985 Michoacan Earthquake

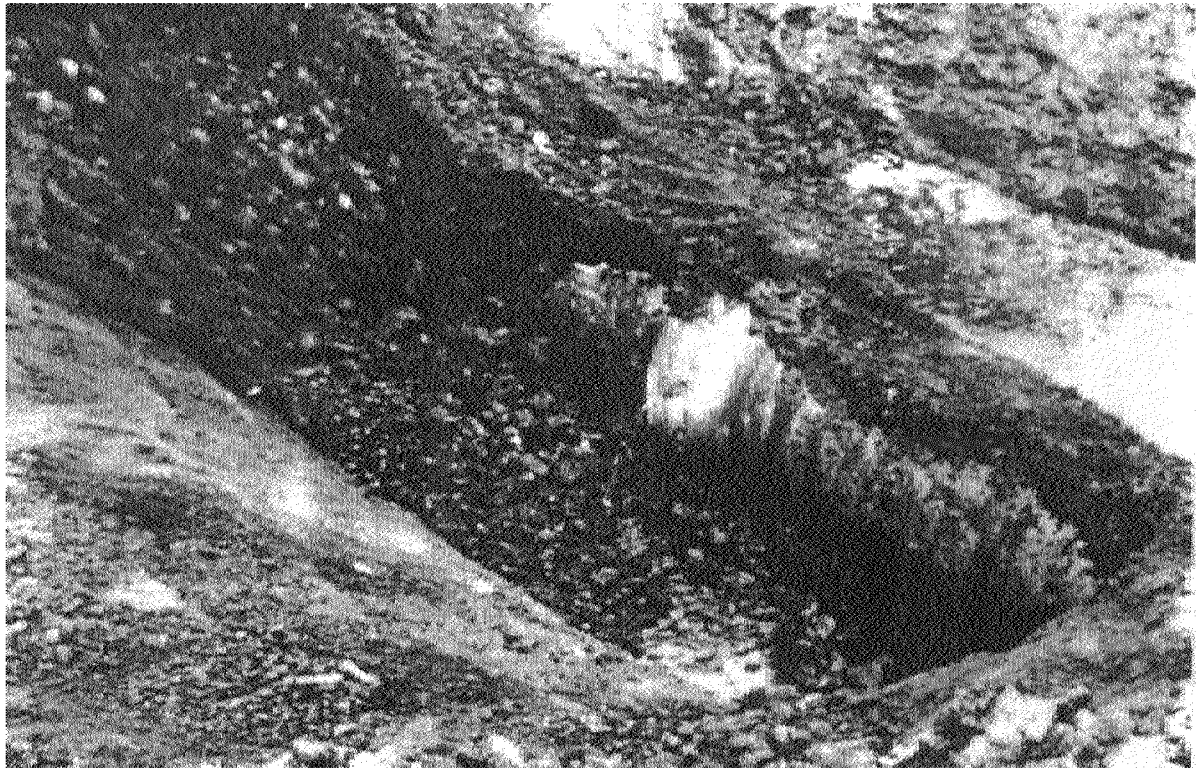


FIGURE 6-16 Leak At The Bell Of An Asbestos Cement Pipe, 1985 Michoacan Earthquake