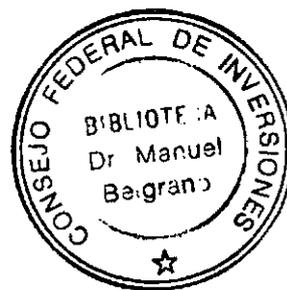


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**PROYECTO DE DEFENSA
CIUDAD DE SANTA FE
SECTOR NORESTE**

**NIVEL: ANTEPROYECTO
PLANOS Y FIGURAS**



Ing. ACUÑA, Juan Cristóbal
Ing. ROSSA, José Antonio
Ing. SCAGLIONE, Elda Elisa
Ing. CAPPELLETTI, Angel

Santa Fe, julio 1993.

PROYECTO DE DEFENSA CIUDAD DE SANTA FE

ZONA NORESTE

PLANIMETRIA GENERAL

ESCALA 1:10.000

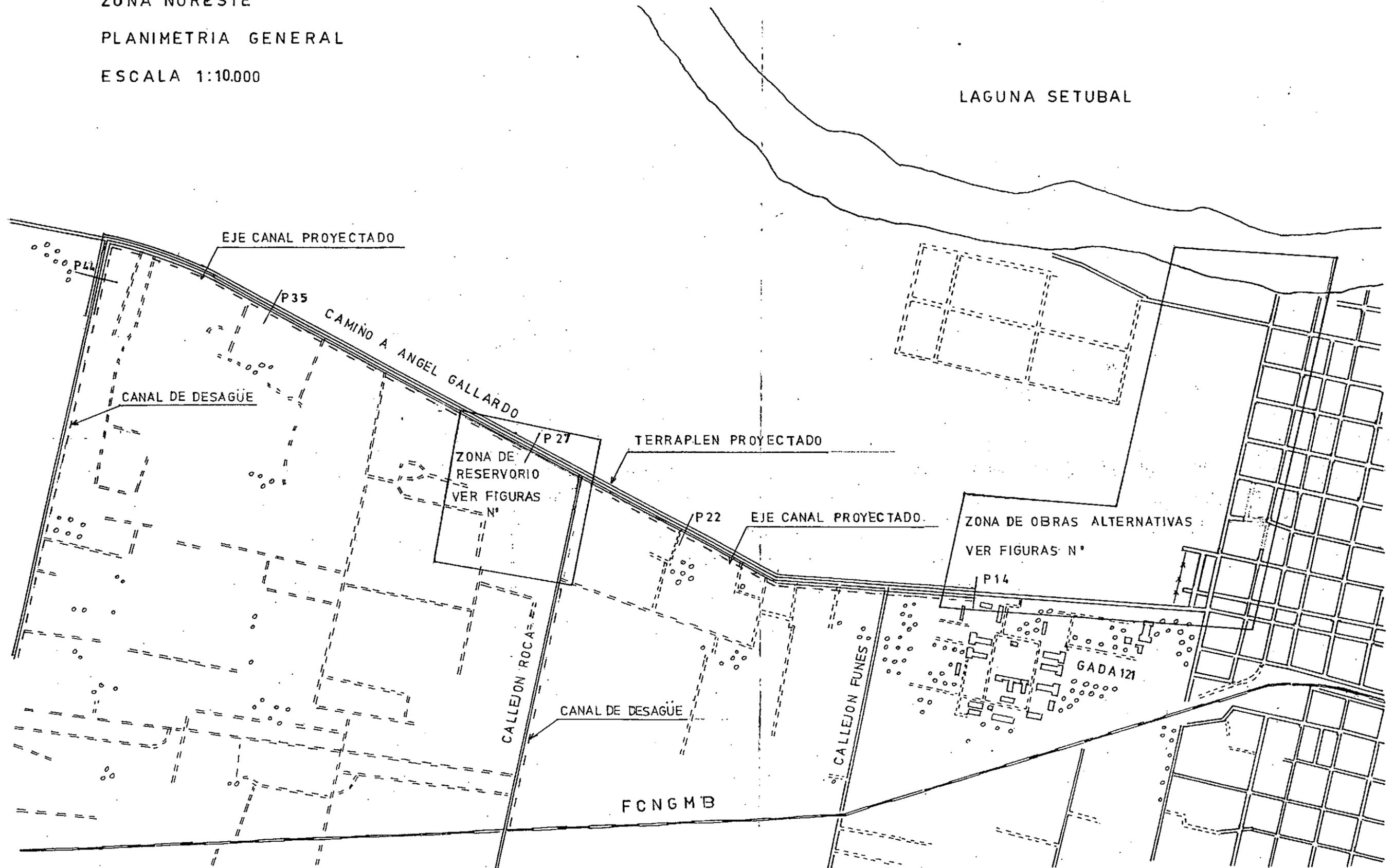


FIGURA N° 1

ZONA DE OBRAS ALTERNATIVAS
ALTERNATIVA N°1

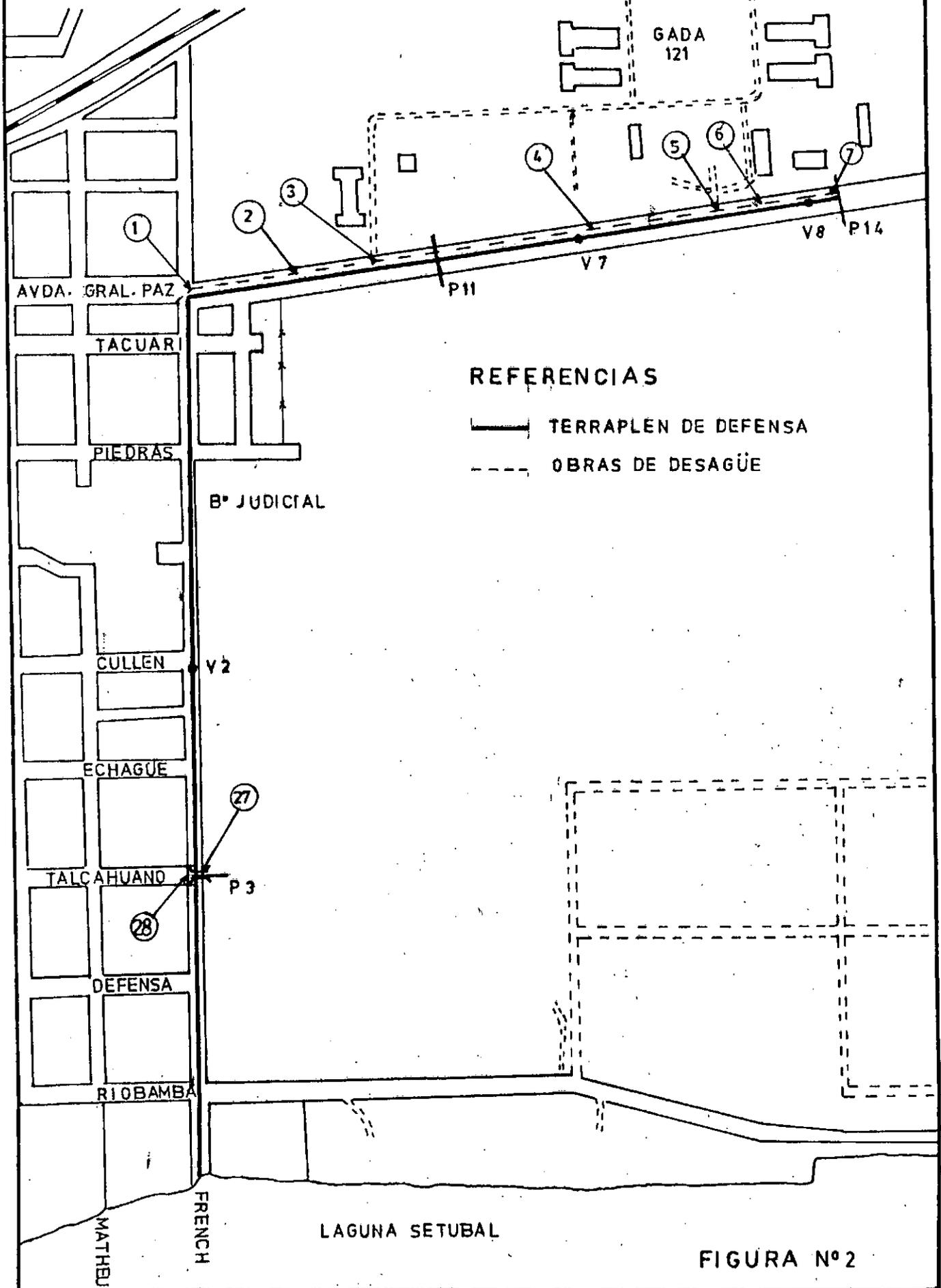
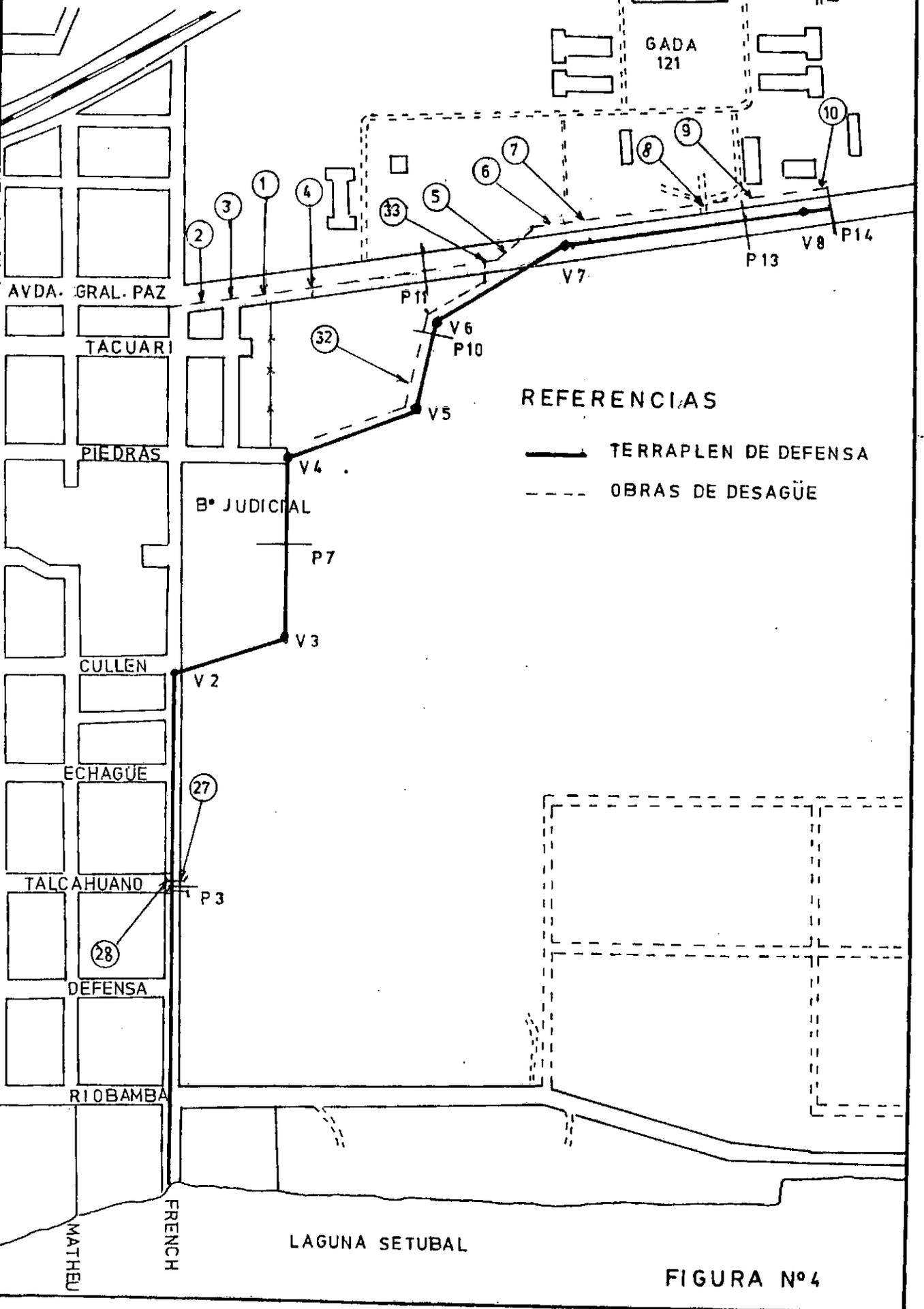


FIGURA N°2

ZONA DE OBRAS ALTERNATIVAS
ALTERNATIVA Nº2

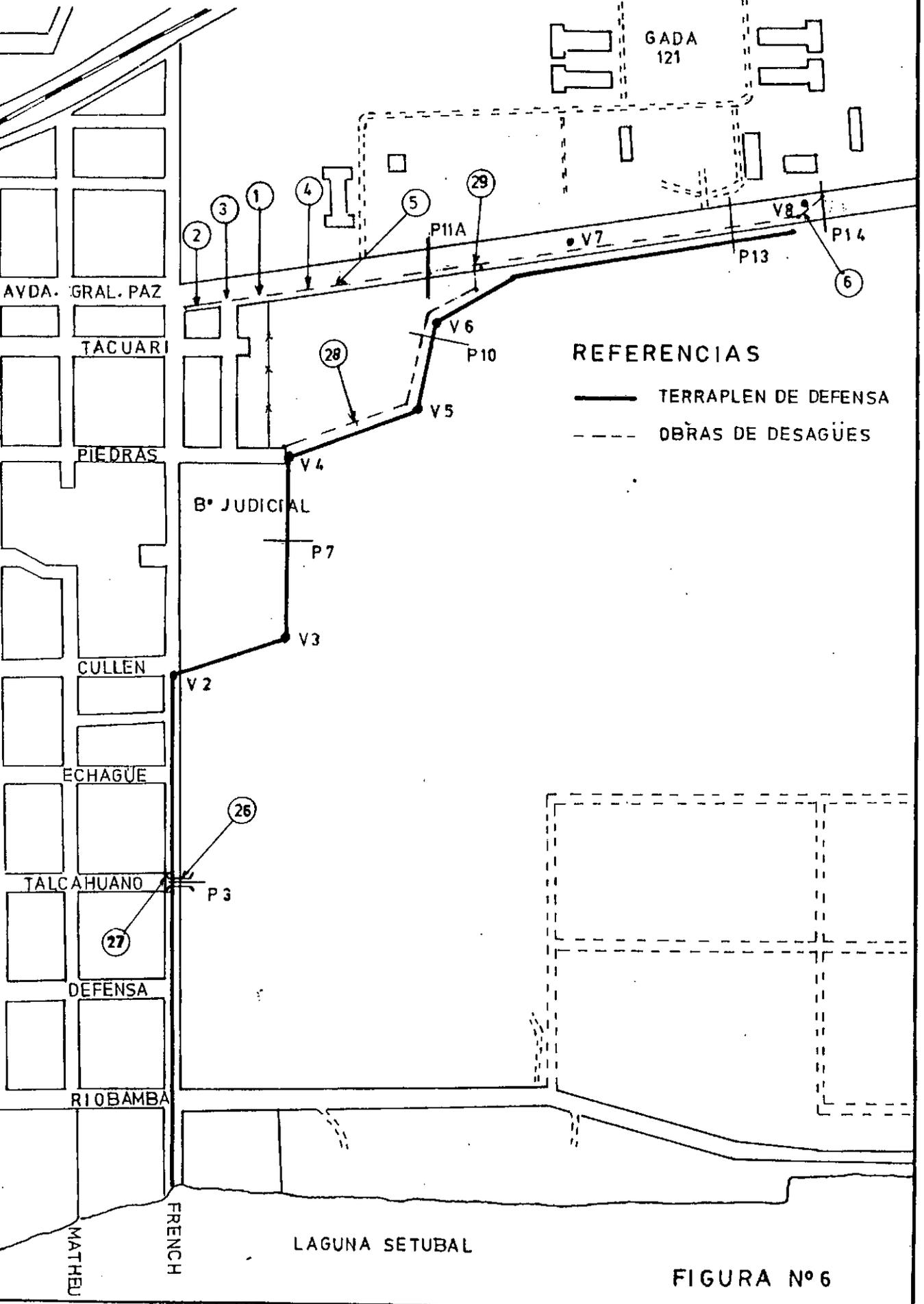


REFERENCIAS

- TERRAPLEN DE DEFENSA
- - - OBRAS DE DESAGÜE

FIGURA Nº4

ZONA DE OBRAS ALTERNATIVAS
ALTERNATIVA N°3

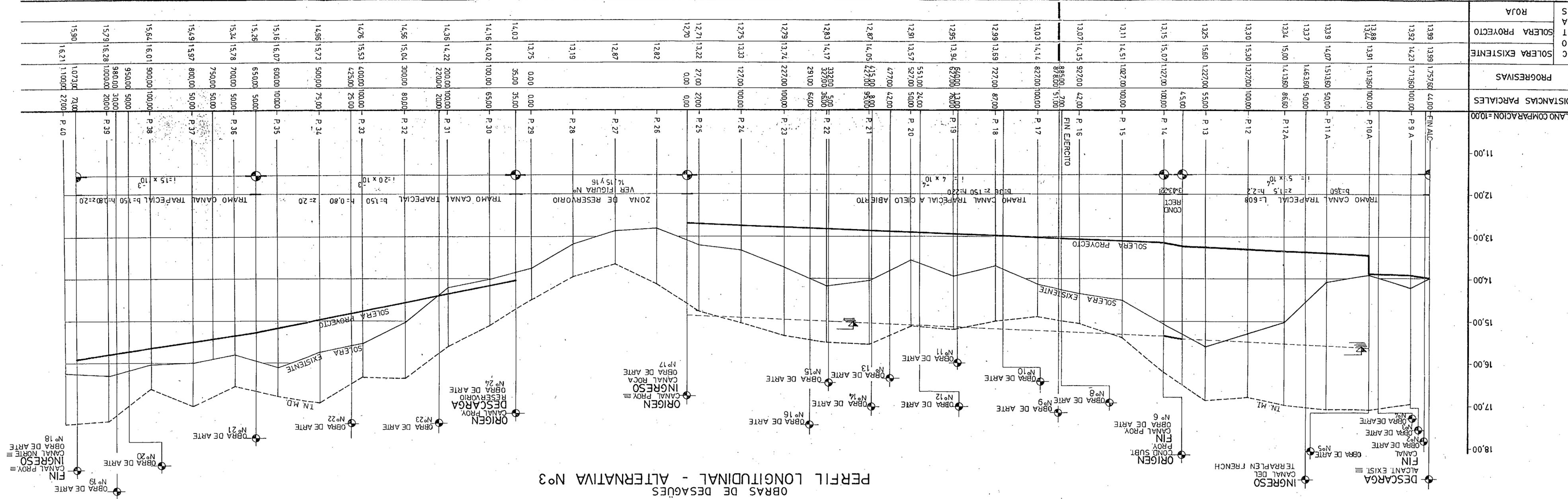


REFERENCIAS

- TERRAPLEN DE DEFENSA
- - - OBRAS DE DESAGÜES

FIGURA N°6

OBRAS DE DESAGÜES
PERFIL LONGITUDINAL - ALTERNATIVA Nº3



PLANO COMPARACION=1000	DISTANCIAS PARCIALES	PROGRESIVAS	SOLETA EXISTENTE	SOLETA PROYECTO	ROJA
FIN ALC.	44.00	1757.80	1399	1399	1399
P. 9 A	100.00	1713.60	1423	1423	1392
P. 10 A	100.00	1613.60	1391	1391	1388
P. 11 A	50.00	1513.60	1407	1407	1339
P. 12 A	86.60	1413.60	15.00	14.360	1334
P. 12	100.00	1327.00	15.30	13.270	1330
P. 13	55.00	1227.00	15.60	12.270	1325
P. 14	100.00	1127.00	15.07	11.220	1315
P. 15	100.00	1027.00	14.51	10.270	1311
P. 16	42.00	927.00	14.35	9.270	1307
FIN EJERCITO	700	857.00	14.14	8.270	1303
P. 17	100.00	757.00	13.94	7.270	1299
P. 18	87.00	670.00	13.57	5.270	1291
P. 19	13.00	540.00	13.22	2.700	1271
P. 20	24.00	516.00	13.05	2.200	1287
P. 21	42.00	474.00	12.87	1.800	1270
P. 22	5.00	369.00	12.83	1.170	1283
P. 23	100.00	269.00	12.79	1.374	1279
P. 24	100.00	169.00	12.75	1.333	1275
P. 25	27.00	142.00	12.71	1.322	1271
P. 26	0.00	115.00	12.70	1.270	1270
P. 27	35.00	80.00	12.87	1.287	1287
P. 28	0.00	45.00	13.19	1.319	1319
P. 29	0.00	10.00	13.75	1.403	1403
P. 30	65.00	45.00	14.16	1.402	1416
P. 31	20.00	25.00	14.36	1.422	1436
P. 32	80.00	45.00	14.56	1.504	1456
P. 33	25.00	20.00	14.76	1.553	1476
P. 34	75.00	45.00	14.96	1.573	1496
P. 35	100.00	10.00	15.16	1.607	1516
P. 36	50.00	5.000	15.26	1.578	1526
P. 37	50.00	5.000	15.34	1.578	1534
P. 38	50.00	5.000	15.49	1.597	1549
P. 39	20.00	3.000	15.79	1.628	1579
P. 40	23.00	73.00	15.90	1.621	1590

ZONA DE OBRAS ALTERNATIVAS
ALTERNATIVA N° 4

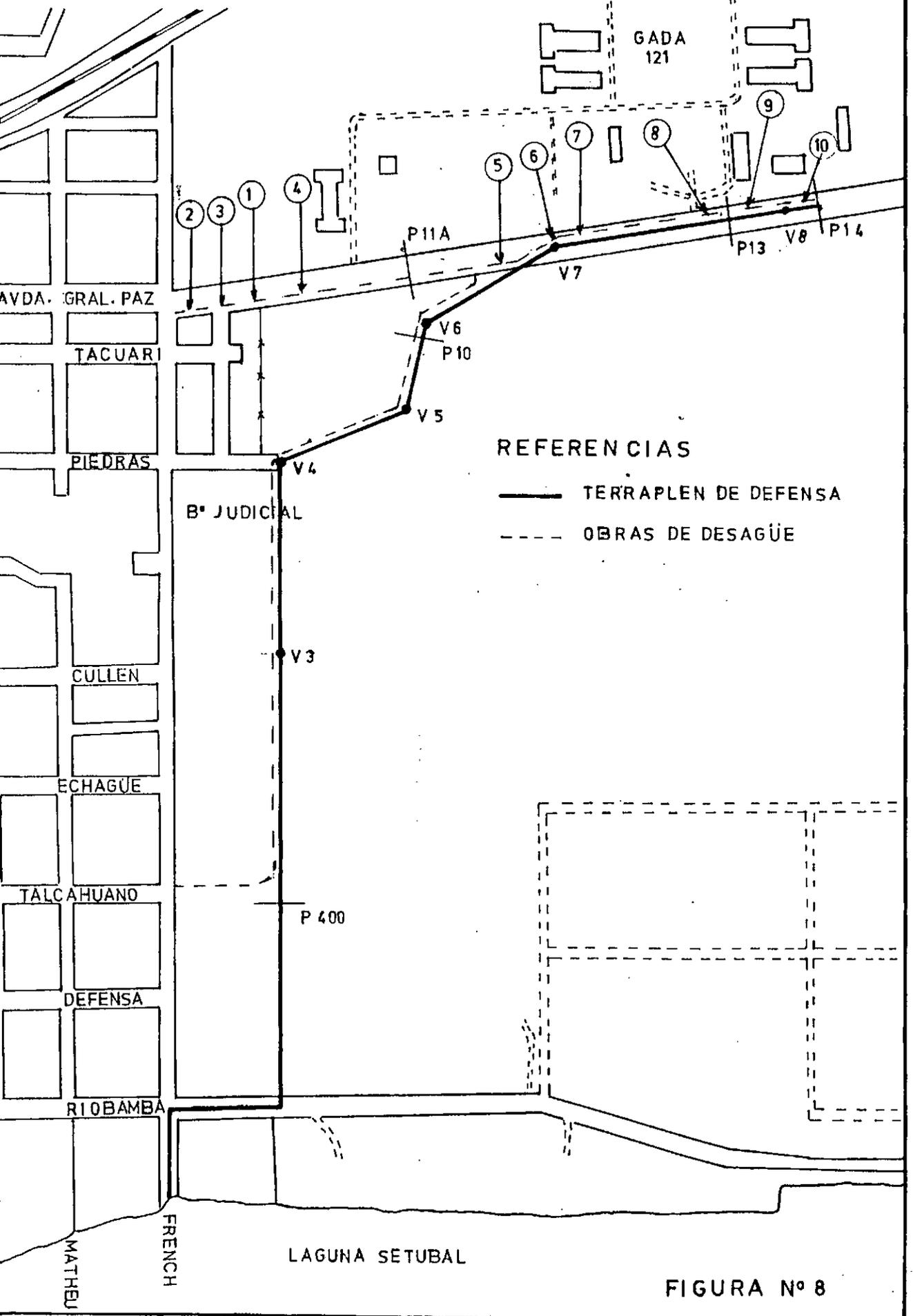
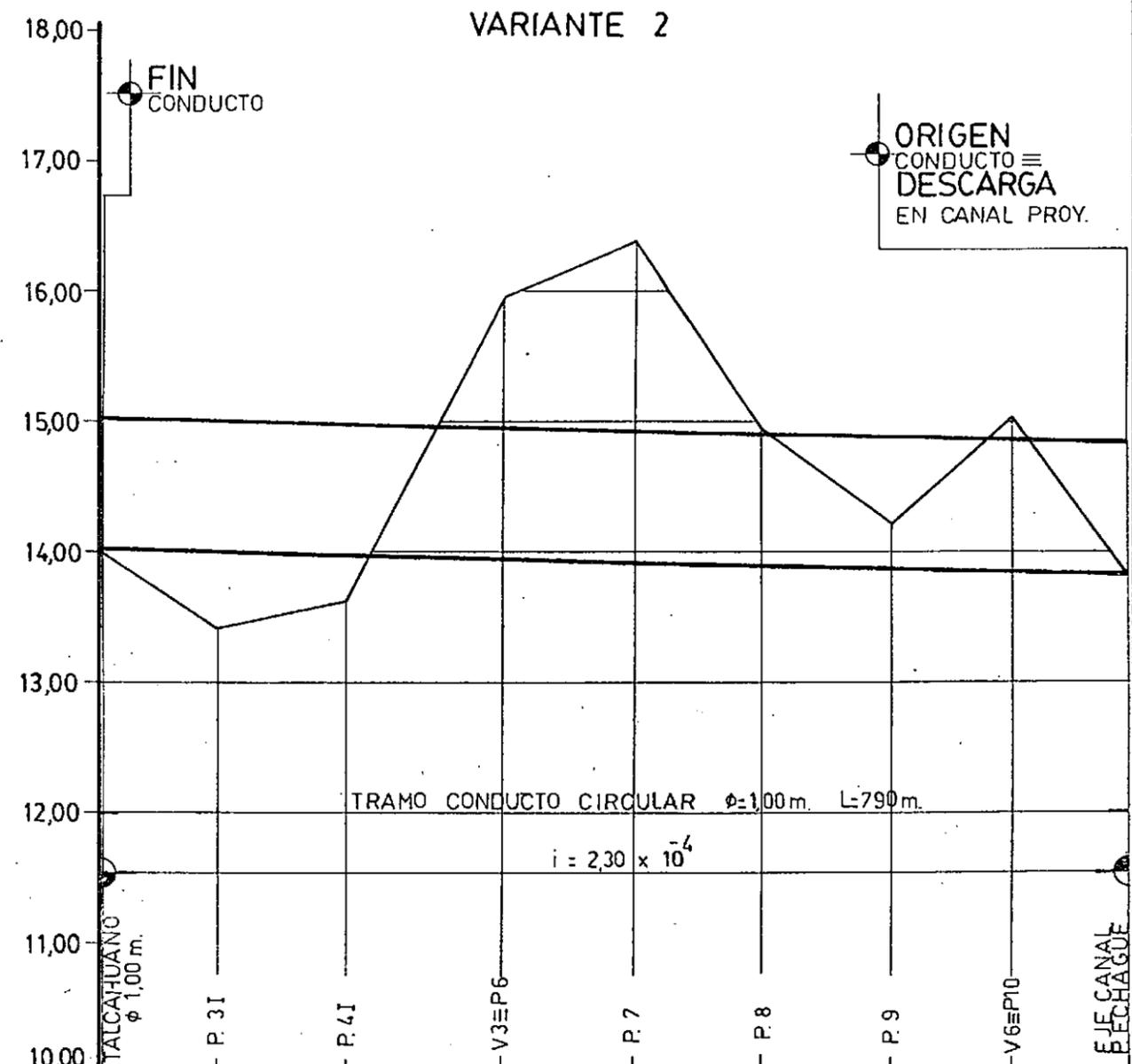
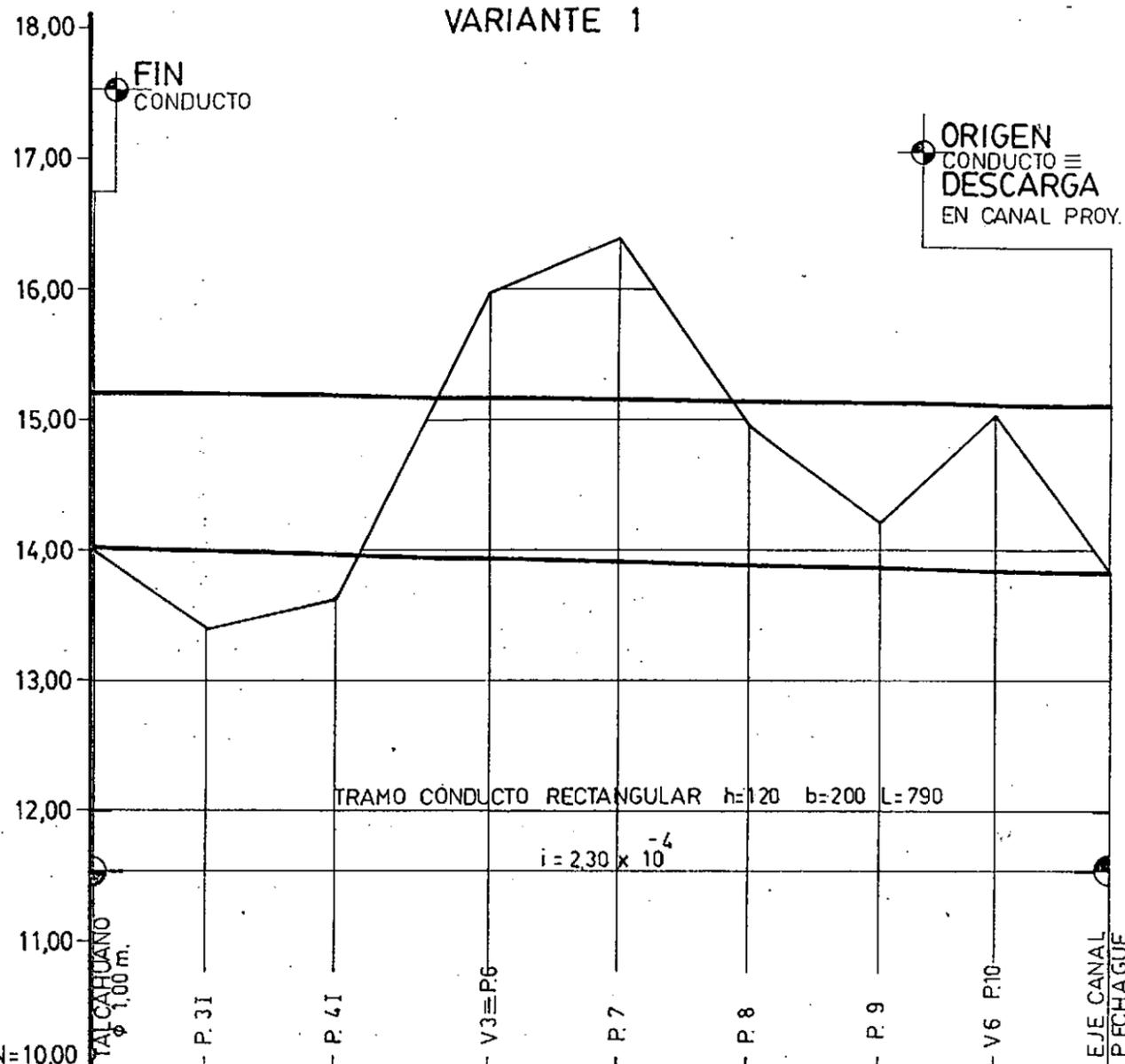


FIGURA N° 8

CONDUCTO TALCAHUANO ALTERNATIVA N°4



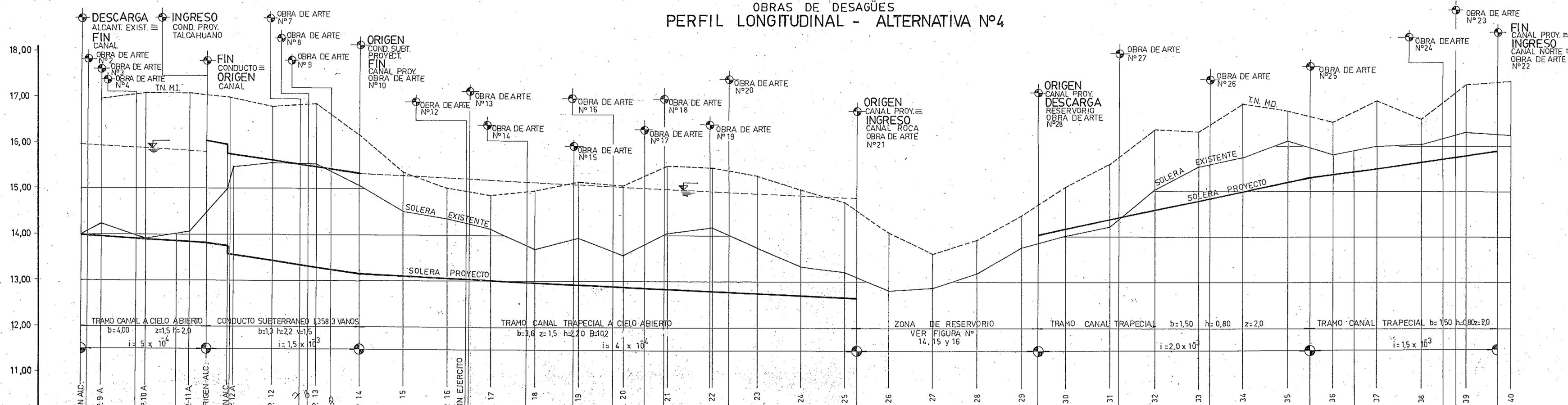
PLANO COMPARACION=10,00

DISTANCIAS PARCIALES		90,00	100,00	120,00	100,00	100,00	100,00	90,00	90,00	0,00
PROGRESIVAS		790,00	700,00	600,00	480,00	380,00	280,00	180,00	90,00	0,00
C O T A S	SOLERA EXISTENTE	14,02	13,40	13,64	16,00	16,40	15,00	14,21	15,04	13,84
	SOLERA PROYECTO	14,02	14,00	13,98	13,95	13,93	13,90	13,88	13,86	13,84
	ROJA									

DISTANCIAS PARCIALES		90,00	100,00	120,00	100,00	100,00	100,00	90,00	90,00	0,00
PROGRESIVAS		790,00	700,00	600,00	480,00	380,00	280,00	180,00	90,00	0,00
C O T A S	SOLERA EXISTENTE	14,02	13,40	13,64	16,00	16,40	15,00	14,21	15,04	13,84
	SOLERA PROYECTO	14,02	14,00	13,98	13,95	13,93	13,90	13,88	13,86	13,84
	ROJA									

FIGURA N°9

OBRAS DE DESAGÜES PERFIL LONGITUDINAL - ALTERNATIVA Nº4



PLANO COMPARACION = 10,00

DISTANCIAS PARCIALES		44,00	100,00	70,00	30,00	40,00	47,00	100,00	100,00	100,00	42,00	7,00	51,00	100,00	87,00	13,00	24,00	50,00	42,00	8,00	56,00	100,00	27,00	0,00	65,00	100,00	20,00	80,00	100,00	25,00	75,00	100,00	50,00	50,00	50,00	100,00	30,00	20,00	73,00	27,00			
PROGRESIVAS		1757,60	1713,60	1613,60	1543,60	1513,60	1473,60	1428,60	1413,60	1327,00	1227,00	1127,00	1027,00	927,00	885,00	827,00	551,00	527,00	477,00	415,00	322,00	291,00	127,00	27,00	0,00	35,00	100,00	200,00	300,00	400,00	425,00	500,00	600,00	650,00	700,00	750,00	800,00	900,00	950,00	980,00	1000,00	1073,00	1100,00
C O T A S	SOLERA EXISTENTE	13,99	14,23	13,91	13,86	13,86	13,84	13,77	13,60	13,45	13,30	13,15	13,11	13,07	13,03	12,99	12,95	12,91	12,87	12,83	12,79	12,75	12,71	12,70	14,03	14,16	14,36	14,56	14,76	14,96	15,16	15,26	15,34	15,49	15,64	15,79	15,90	16,21	16,28	16,21	16,21		
	SOLERA PROYECTO	13,99	14,23	13,91	13,86	13,86	13,84	13,77	13,60	13,45	13,30	13,15	13,11	13,07	13,03	12,99	12,95	12,91	12,87	12,83	12,79	12,75	12,71	12,70	14,03	14,16	14,36	14,56	14,76	14,96	15,16	15,26	15,34	15,49	15,64	15,79	15,90	16,21	16,28	16,21	16,21		
	ROJA																																										

ZONA DE OBRAS ALTERNATIVAS

ALTERNATIVA Nº 5

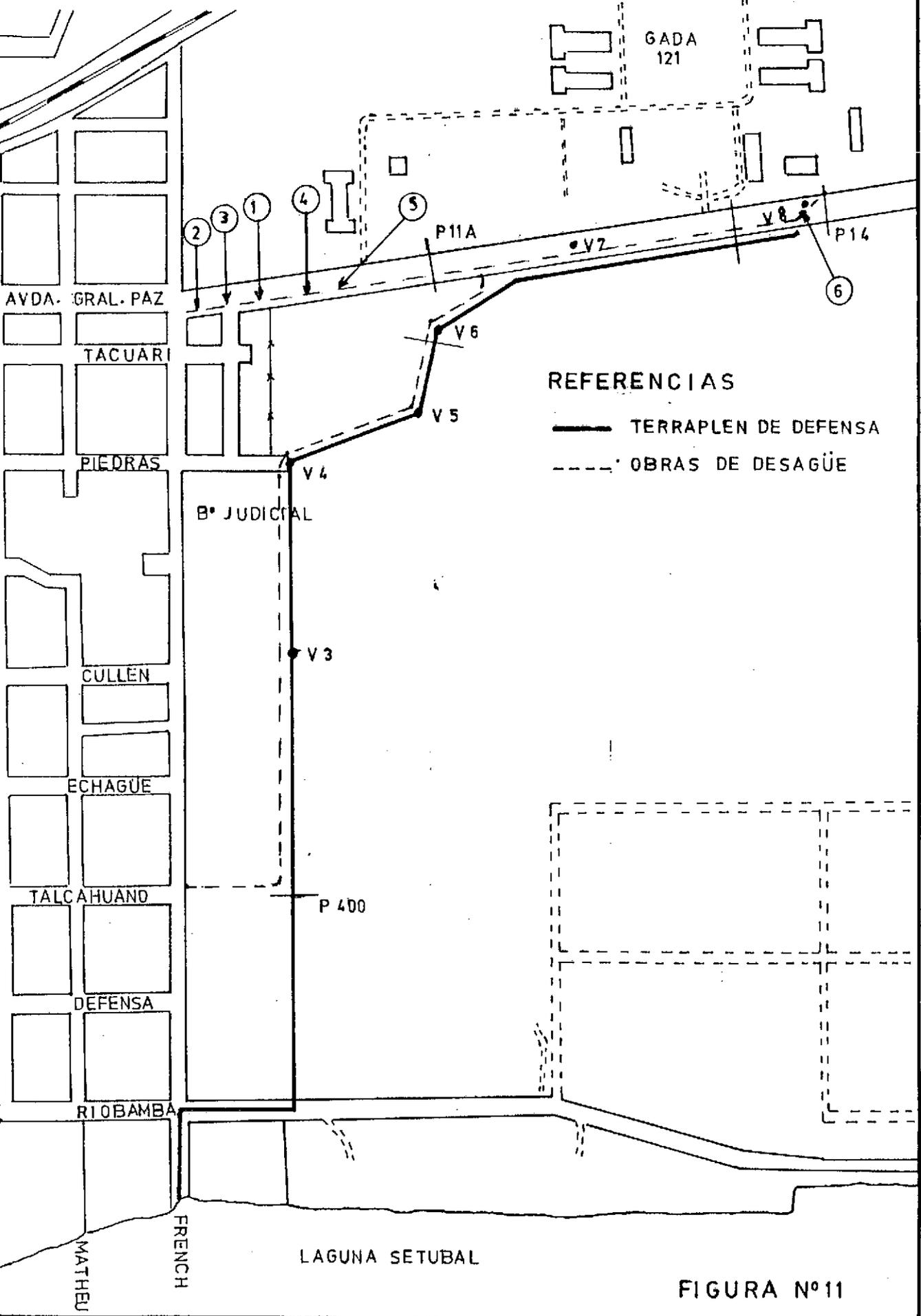
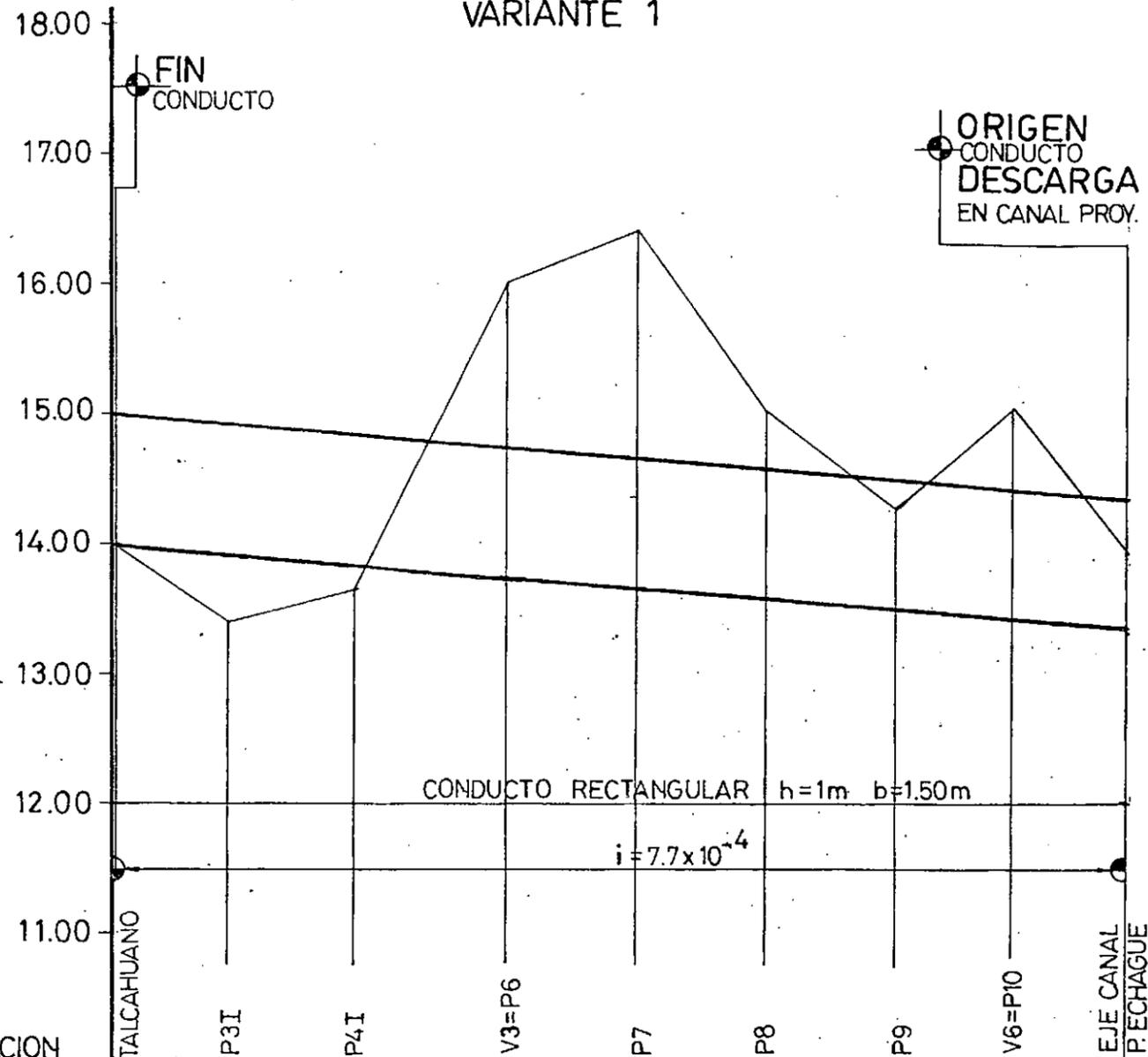


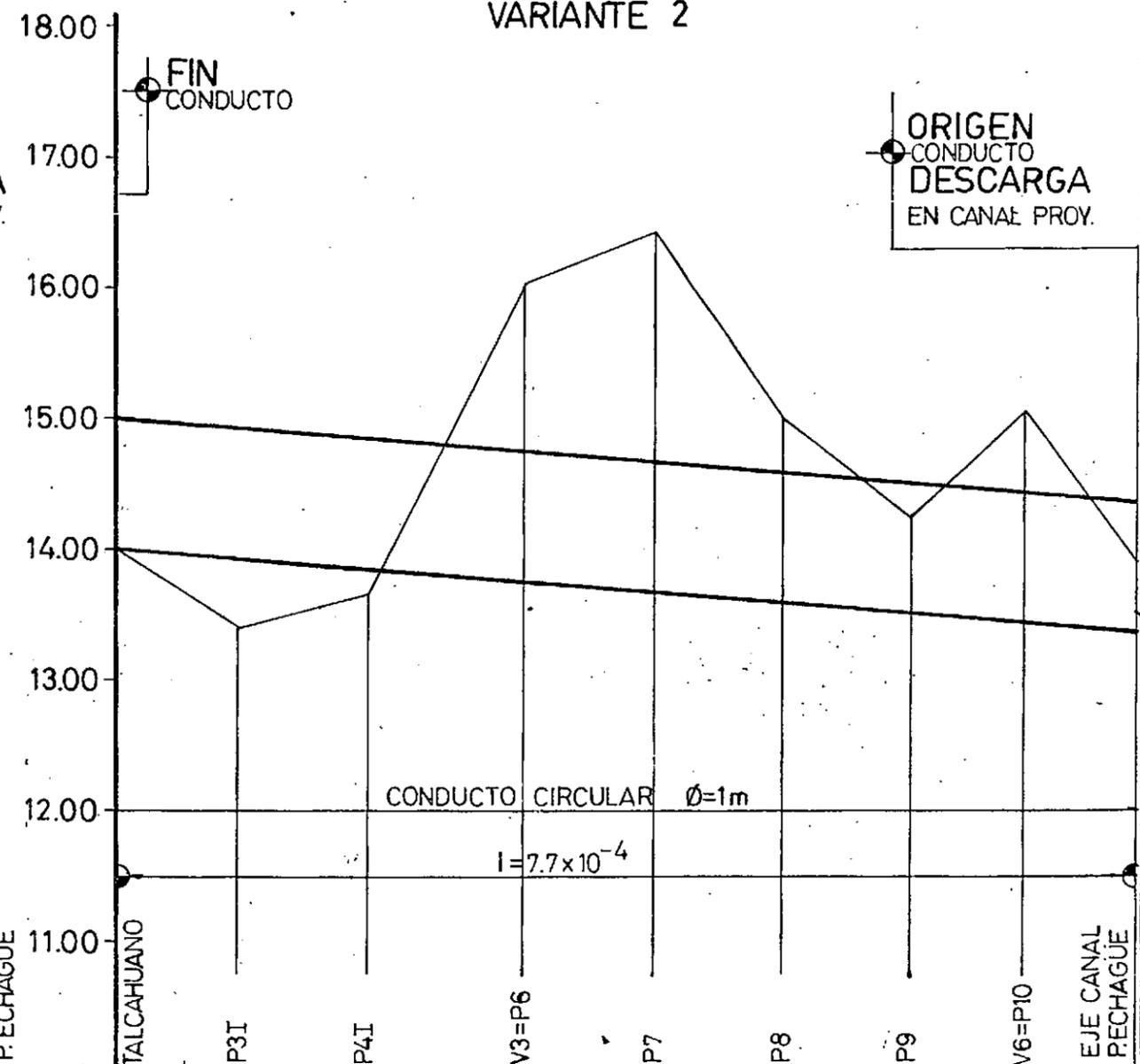
FIGURA Nº 11

CONDUCTO TALCAHUANO ALTERNATIVA N°5

VARIANTE 1



VARIANTE 2

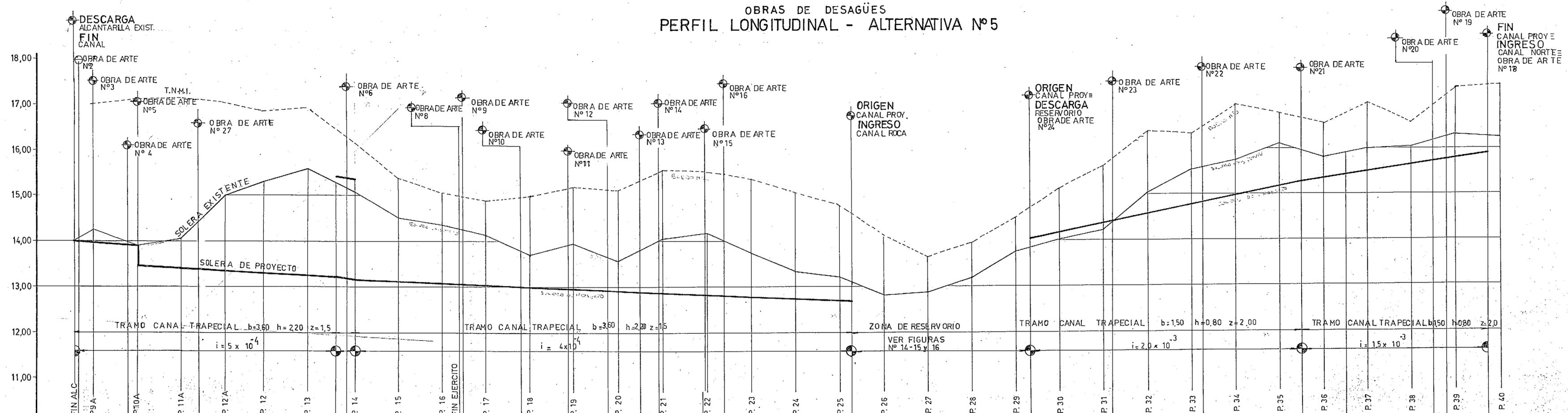


PLANO COMPARACION

DISTANCIAS PARCIALES		90.0	100.0	120.0	100.0	100.0	90.0	90.0	00.0
PROGRESIVAS		790.00	700.00	600.00	480.00	380.00	280.00	180.00	00.00
C O T A S	SOLERA EXISTENTE	14.00	13.40	13.64	16.00	16.40	15.00	14.23	15.04
	SOLERA PROYECTO	14.00	13.93	13.85	13.76	13.68	13.61	13.53	13.46
	ROJA ¹								

DISTANCIAS PARCIALES		90.0	100.0	120.0	100.0	100.0	90.0	90.0	00.0
PROGRESIVAS		790.00	700.00	600.00	480.00	380.00	280.00	180.00	00.00
C O T A S	SOLERA EXISTENTE	14.00	13.40	13.64	16.00	16.40	15.00	14.23	15.04
	SOLERA PROYECTO	14.00	13.93	13.85	13.76	13.68	13.61	13.53	13.46
	ROJA ¹								

OBRAS DE DESAGÜES PERFIL LONGITUDINAL - ALTERNATIVA Nº5



PLANO COMPARACION = 10.00		FIN ALC	P. 9A	P. 10A	P. 11A	P. 12A	P. 12	P. 13	P. 14	P. 15	P. 16	FIN EJERCITO	P. 17	P. 18	P. 19	P. 20	P. 21	P. 22	P. 23	P. 24	P. 25	P. 26	P. 27	P. 28	P. 29	P. 30	P. 31	P. 32	P. 33	P. 34	P. 35	P. 36	P. 37	P. 38	P. 39	P. 40									
DISTANCIAS PARCIALES		4.00	100.00	100.00	40.00	60.00	86.60	100.00	55.00	45.00	100.00	100.00	100.00	100.00	13.00	24.00	50.00	42.00	8.00	95.00	5.00	36.00	64.00	100.00	100.00	27.00	0.00	3.50	65.00	200.00	20.00	80.00	10.00	25.00	75.00	100.00	50.00	50.00	50.00	100.00	50.00	30.00	20.00	73.00	27.00
PROGRESIVAS		175.60	173.60	167.60	153.60	147.60	141.60	132.00	122.00	117.00	112.00	102.00	92.00	82.00	72.00	62.00	52.00	42.00	32.00	22.00	17.00	12.00	6.00	0.00	3.50	100.00	200.00	220.00	300.00	400.00	425.00	500.00	600.00	650.00	700.00	750.00	800.00	900.00	950.00	980.00	1000.00	1073.00	1100.00		
C O T A S	SOLERA EXISTENTE	13.99	14.23	13.91	14.07	13.37	13.34	13.30	13.25	13.22	13.15	13.11	13.07	13.03	12.99	12.95	12.91	12.87	12.83	12.79	12.75	12.71	12.70	12.82	12.87	13.19	13.75	14.02	14.22	14.36	14.56	14.76	14.96	15.16	15.26	15.34	15.49	15.64	15.79	15.90	16.21	16.21			
	SOLERA PROYECTO	13.99	13.92	13.88	13.39	13.37	13.34	13.30	13.25	13.22	13.15	13.11	13.07	13.03	12.99	12.95	12.91	12.87	12.83	12.79	12.75	12.71	12.70	12.82	12.87	13.19	13.75	14.02	14.22	14.36	14.56	14.76	14.96	15.16	15.26	15.34	15.49	15.64	15.79	15.90	16.21	16.21			
	ROJA																																												

FIGURA Nº13

ZONA DE RESERVORIO
ALTERNATIVA N°1

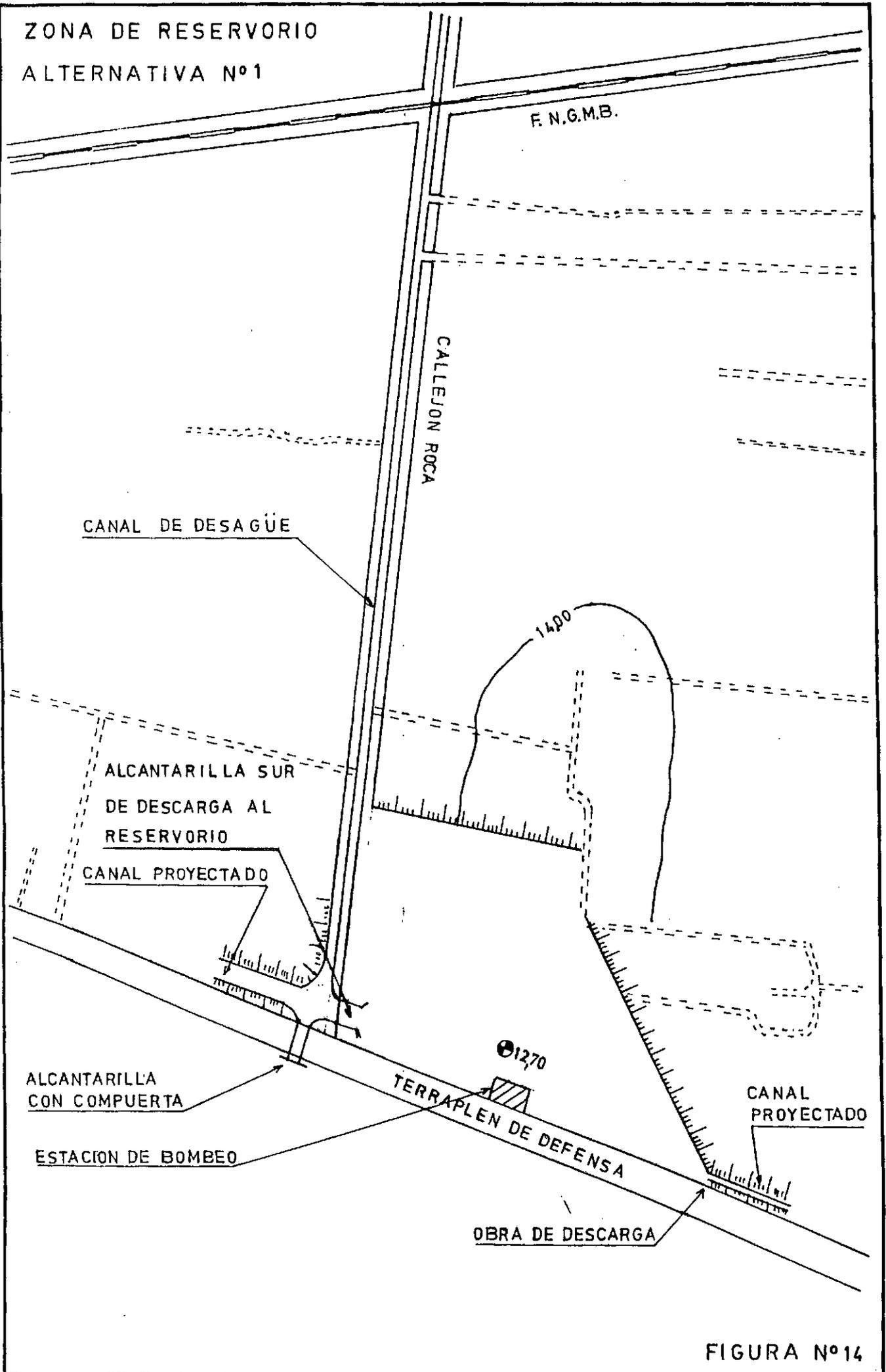


FIGURA N°14

ZONA DE RESERVORIO
ALTERNATIVA N°2

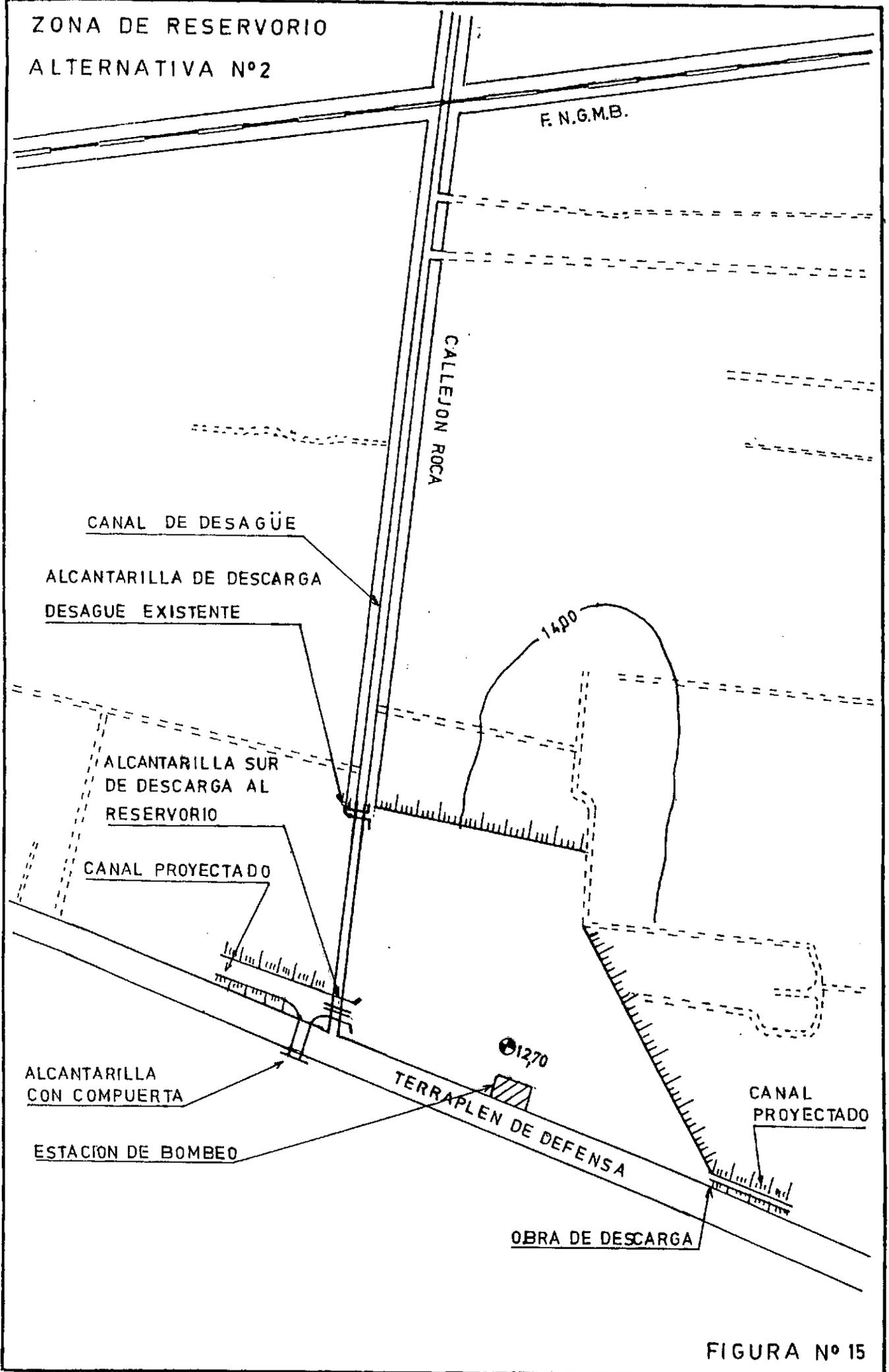


FIGURA N° 15

ZONA DE RESERVORIO
ALTERNATIVA N°3

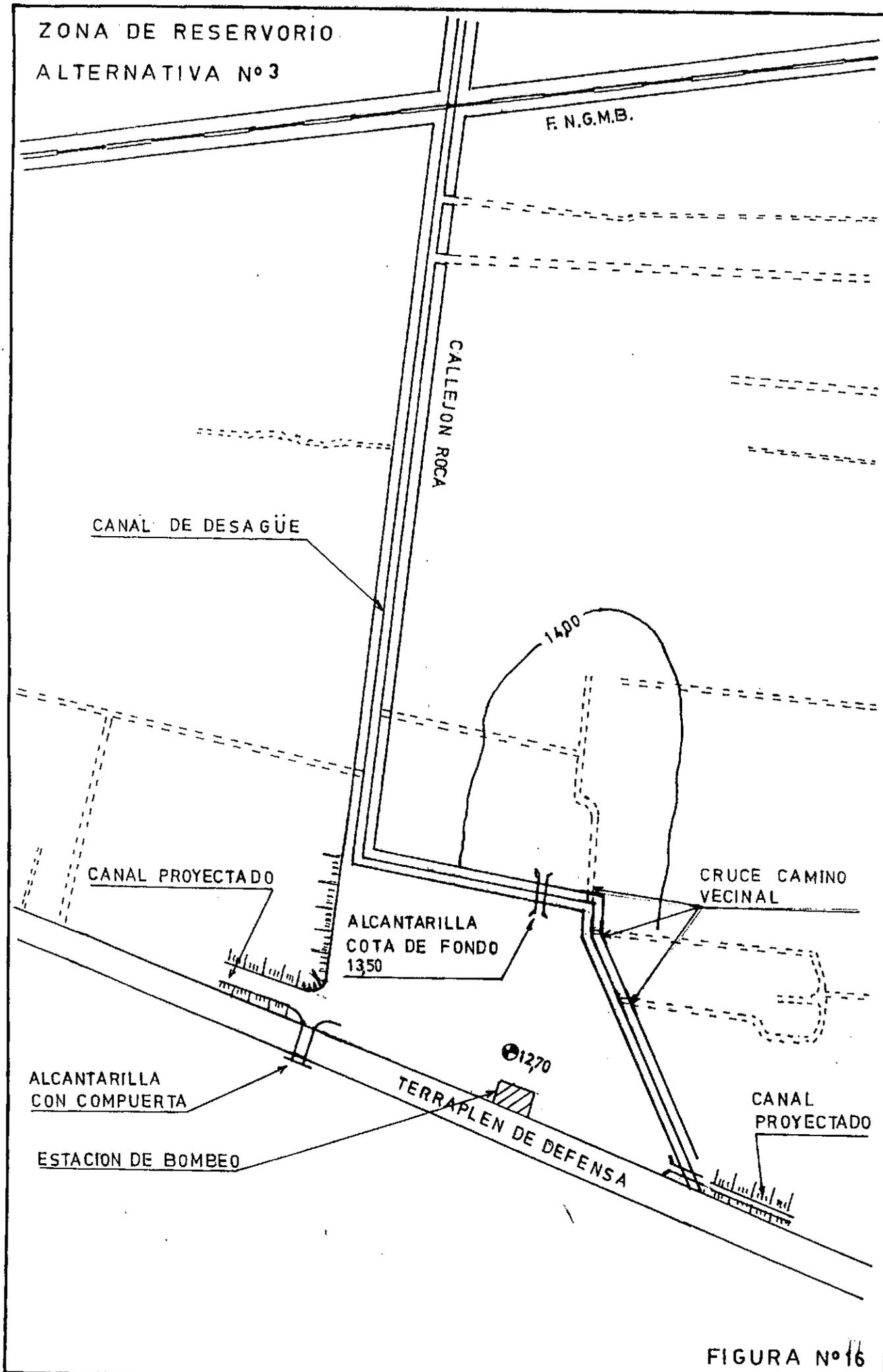


FIGURA N°16

ESTACION DE BOMBEO
DE FRENCH Y TALCAHUANO

ESCALA 1:75

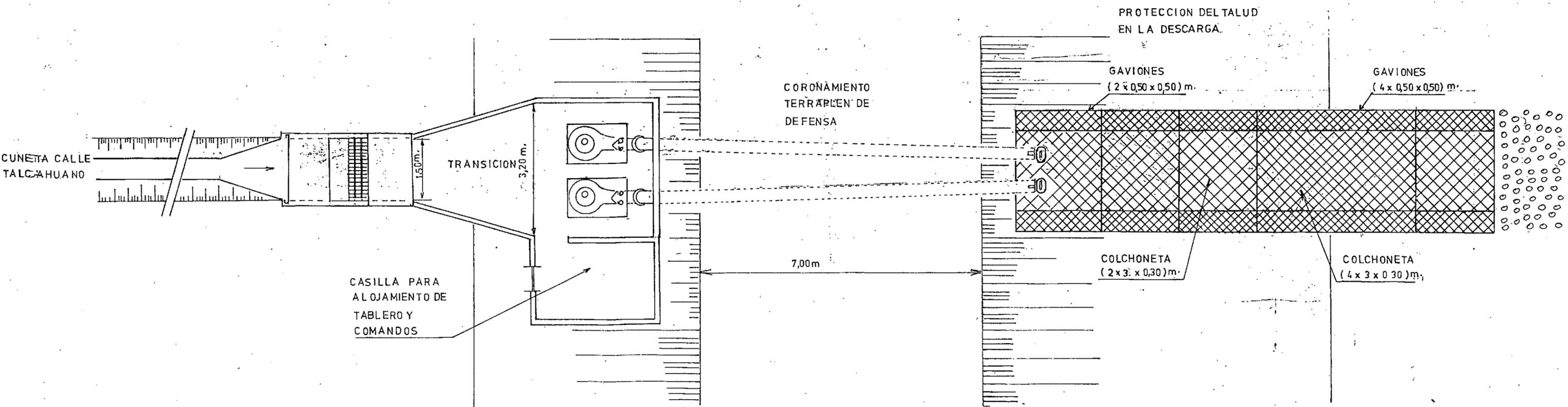
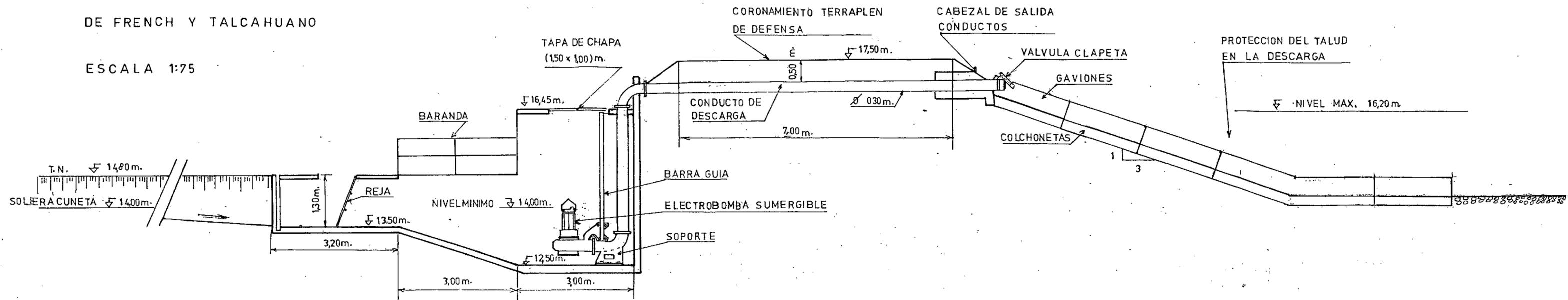
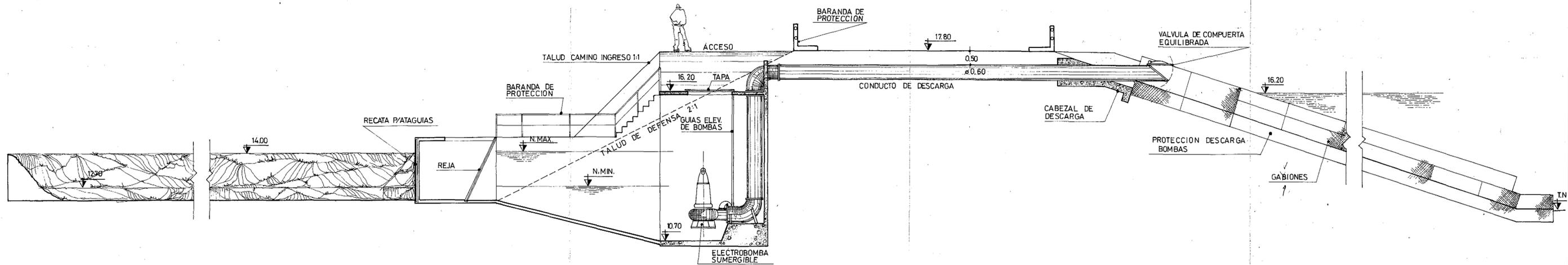
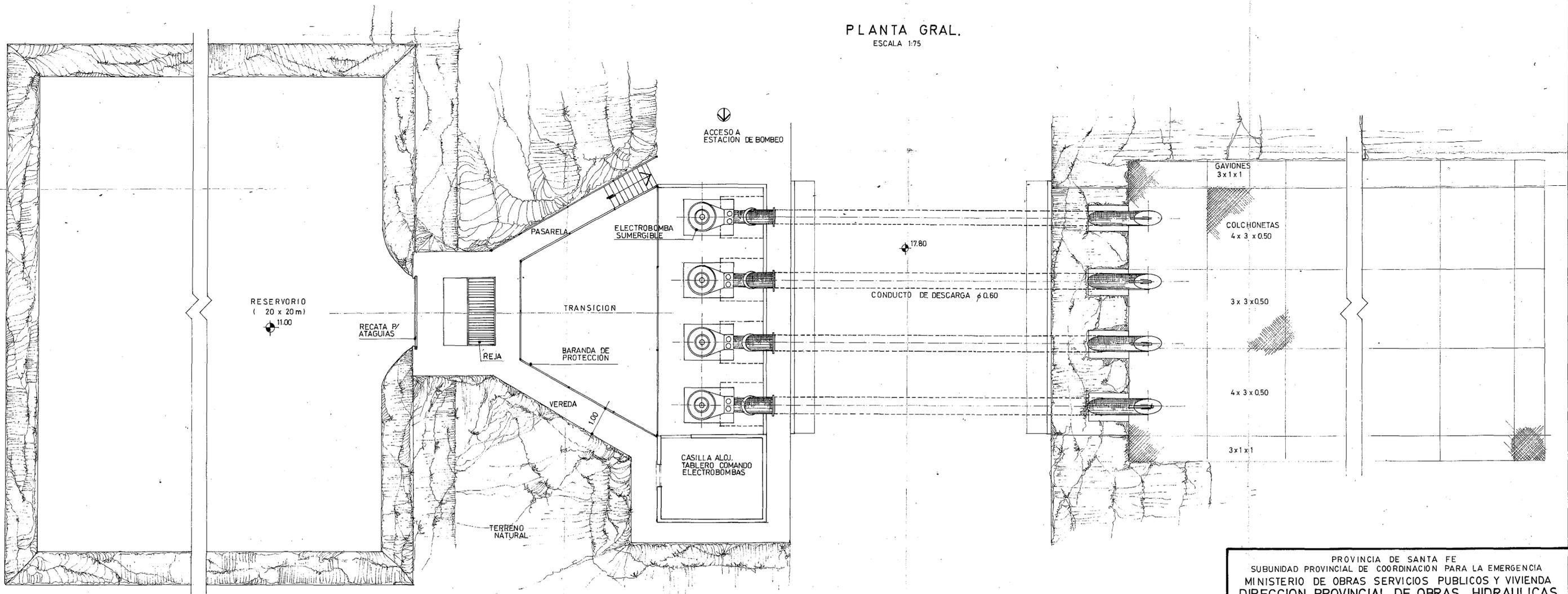


FIGURA N° 17

CORTE LONGITUDINAL
ESCALA 1:75



PLANTA GRAL.
ESCALA 1:75



PROVINCIA DE SANTA FE SUBUNIDAD PROVINCIAL DE COORDINACION PARA LA EMERGENCIA MINISTERIO DE OBRAS SERVICIOS PUBLICOS Y VIVIENDA DIRECCION PROVINCIAL DE OBRAS HIDRAULICAS	
PROYECTO ING. J. CACUNA ING. E. SCAGLIONE ING. J. ROSSA LIC. A. CAPPELLETTI	ESTACION DE BOMBEO CAMINO A ANGEL GALLARDO
JEFE TEC. ING. M. GIOMBI	
COORD. GRAL. ING. R. FRATTI	
DIR. PROV. ING. J. MORIN	
DIBUJO TEC. J. MUSSA	
PROYECTO DE DEFENSA CIUDAD DE SANTA FE ZONA: NORESTE NIVEL: ANTEPROYECTO	
ESCALA: 1:75 FECHA: JULIO '93 PLANO Nº 1	