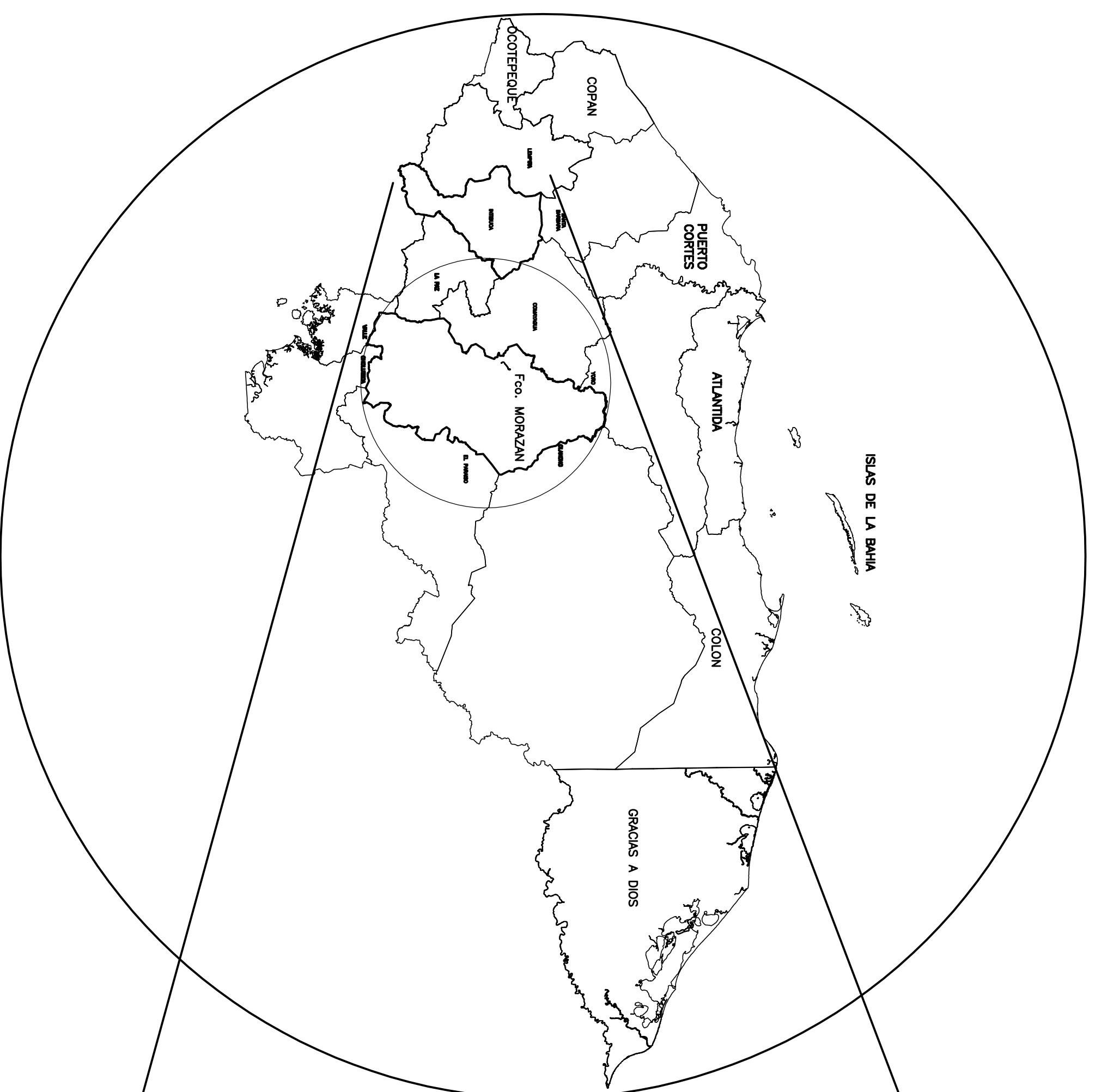


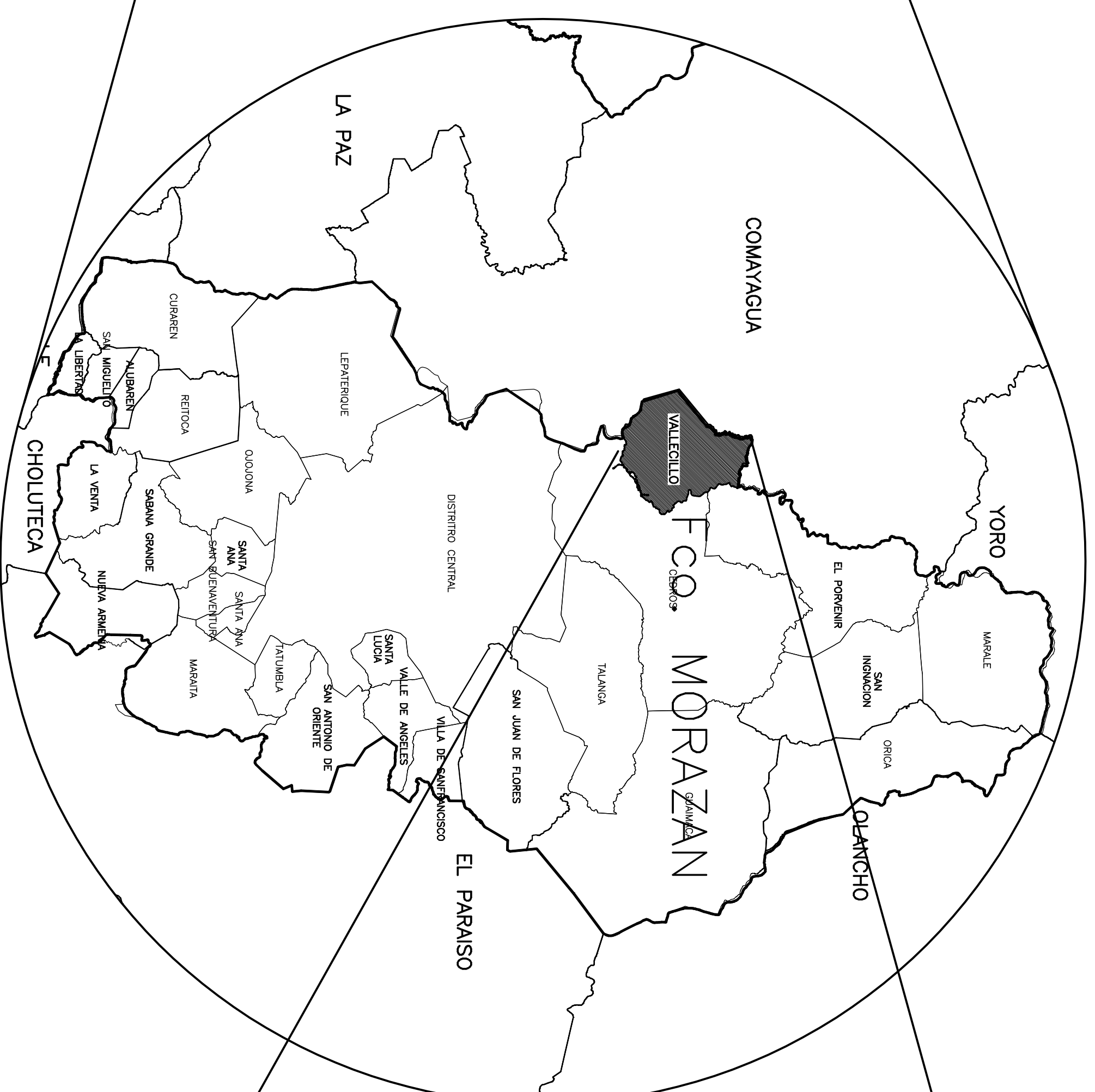
**DISEÑO LINEA DE CONDUCCION DE AGUA POTABLE
COMUNIDAD DE TRINIDAD DE QUEBRADAS,
VALLECILLO DEPARTAMENTO DE Fco. MORAZAN.**

**DISEÑO : MARTIN JIMENEZ CICH 1557
DIGITALIZO : CARLOS CRISANTO**

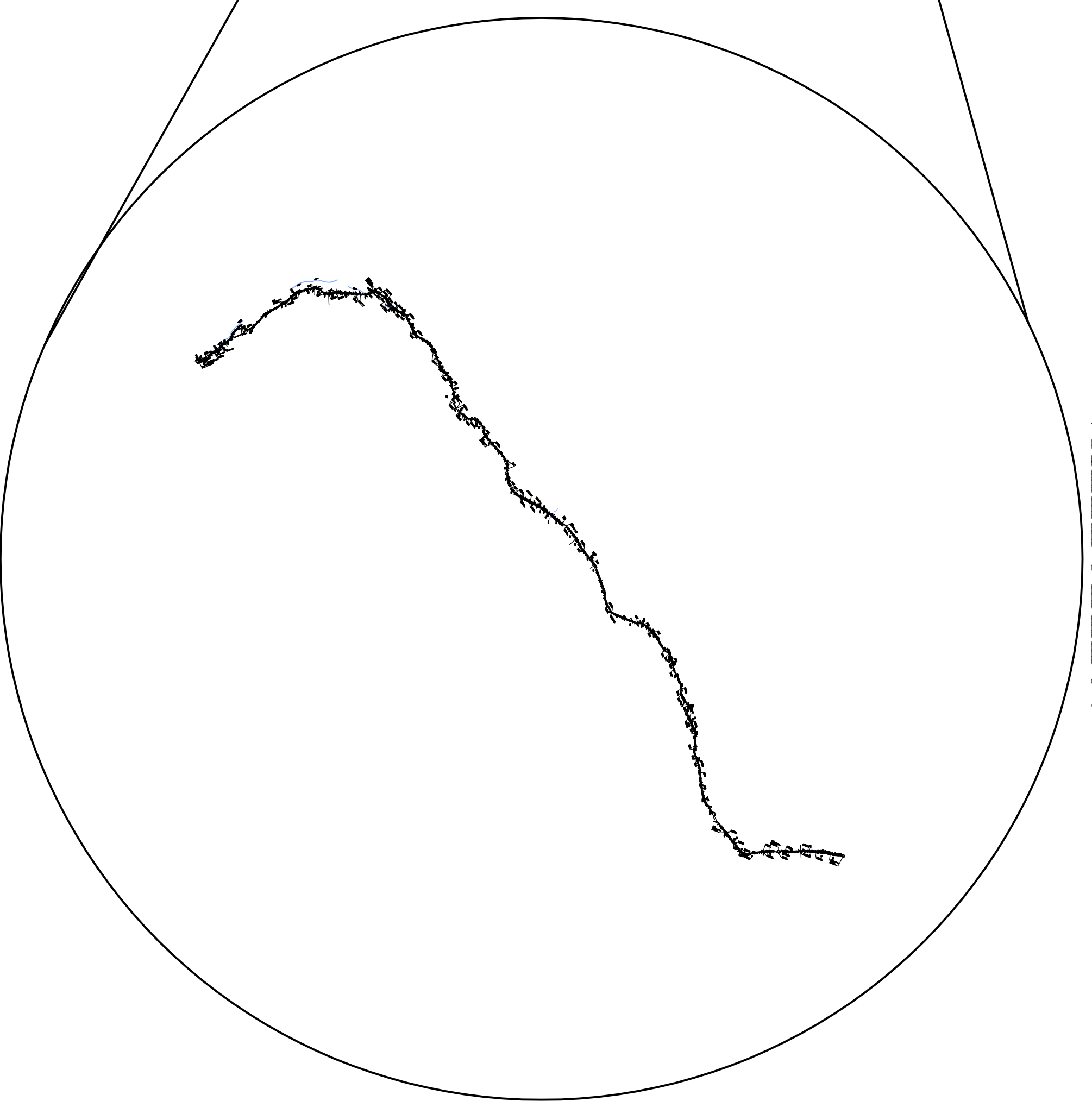
HONDURAS



Fco. MORAZAN

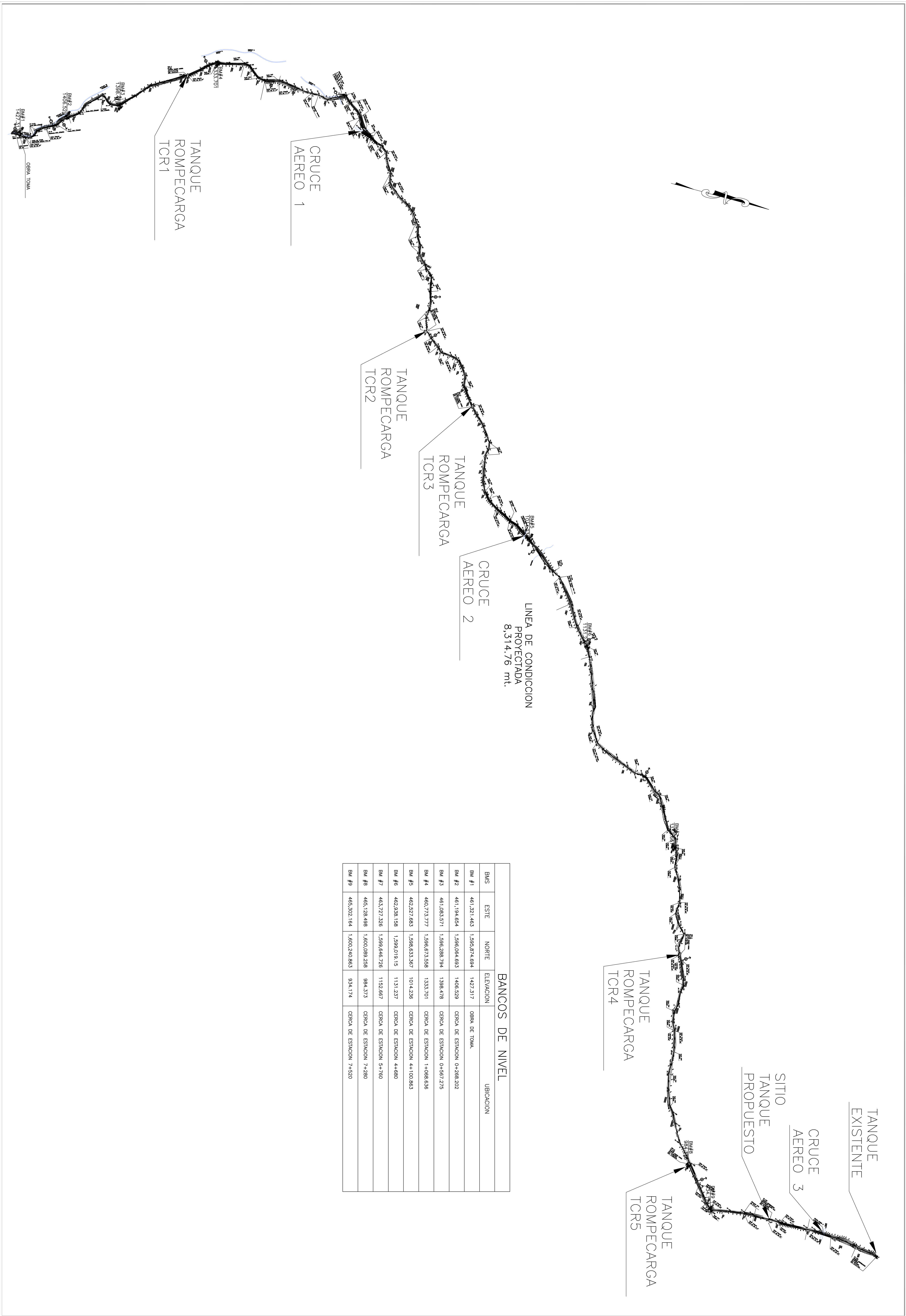


**COMUNIDAD DE TRINIDAD DE QUEBRADAS,
VALLECILLO.**

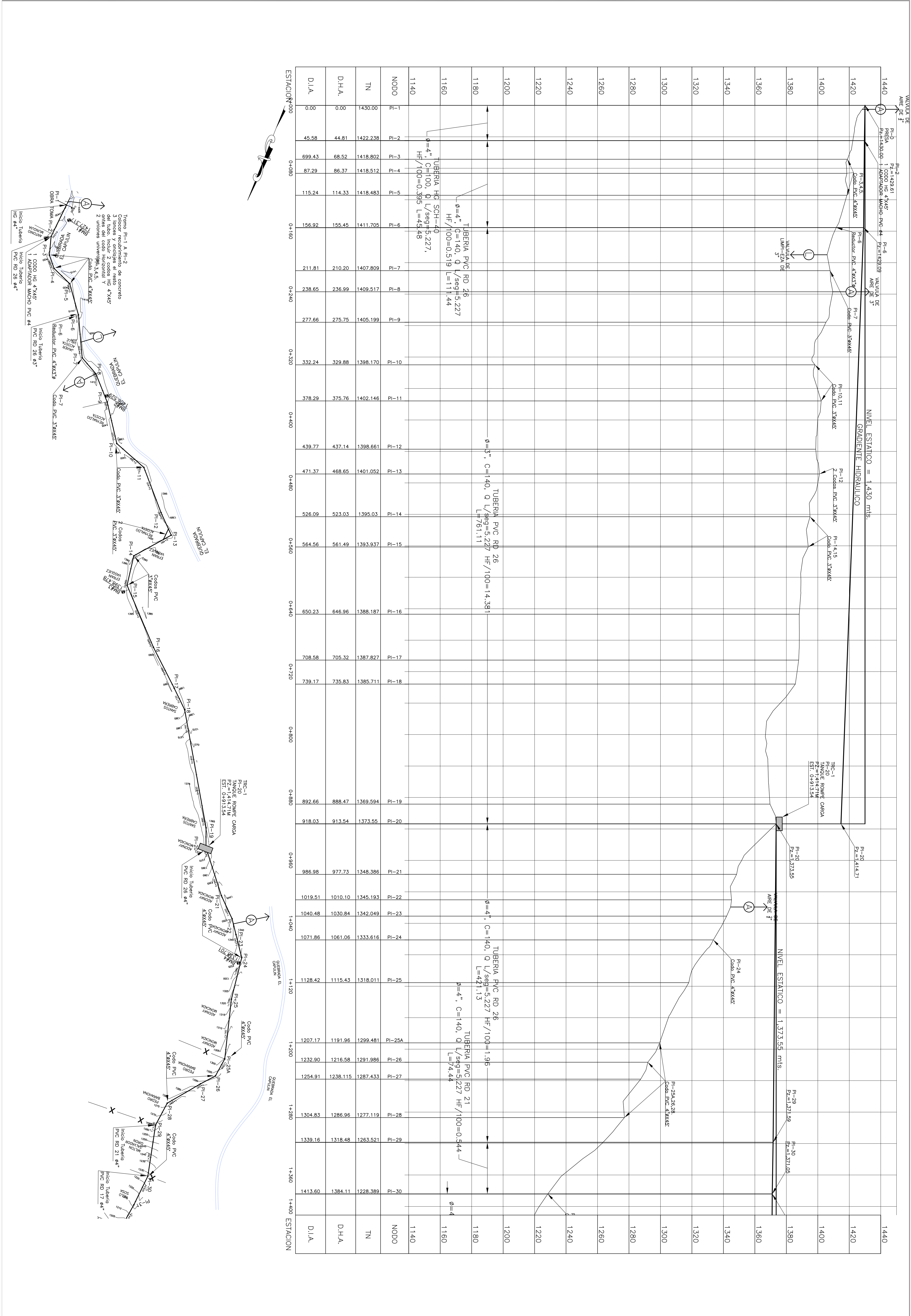


INDICE DE PLANOS

01/11	PORTADA E INDICE DE PLANOS
02/11	PLANTA GENERAL
03/11	PLANTA Y PERFIL DE ESTACION 0+00 A 1+400
04/11	PLANTA Y PERFIL DE ESTACION 1+400 A 2+800
05/11	PLANTA Y PERFIL DE ESTACION 2+800 A 4+200
06/11	PLANTA Y PERFIL DE ESTACION 4+200 A 5+600
07/11	PLANTA Y PERFIL DE ESTACION 5+600 A 7+280
08/11	PLANTA Y PERFIL DE ESTACION 7+280 A 8+314.76
09/11	PLANO DETALLE DE PRESA
10/11	DETALLES VARIOS DETALLE DE VALVULAS DE AIRE Y LIMPIEZA DETALLE DE TANQUE ROMPECARGA
11/11	PLANO DE DETALLES DE TANQUE DE 25,000 GLS.

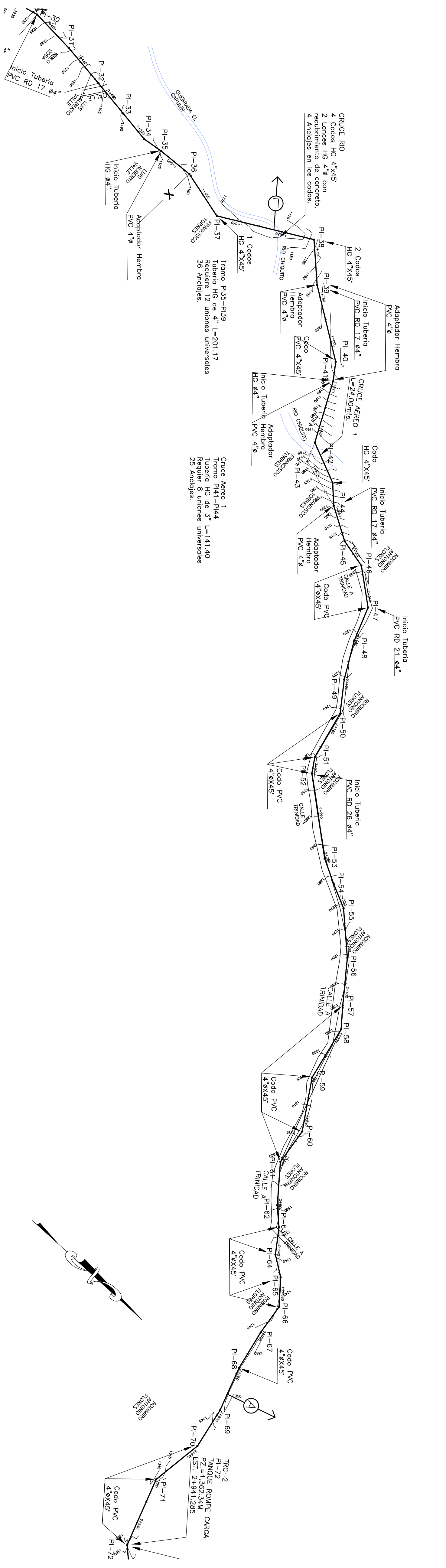


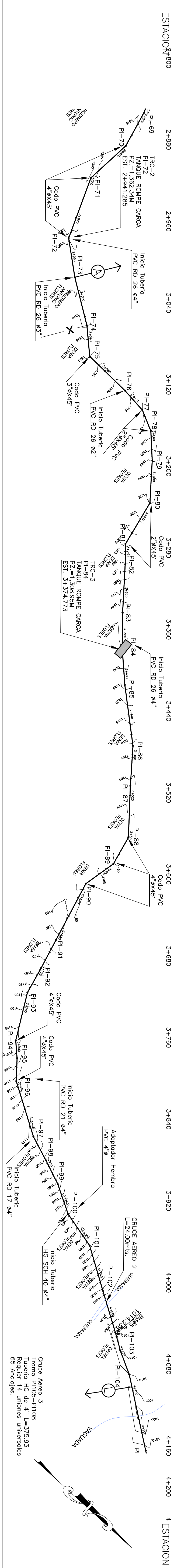
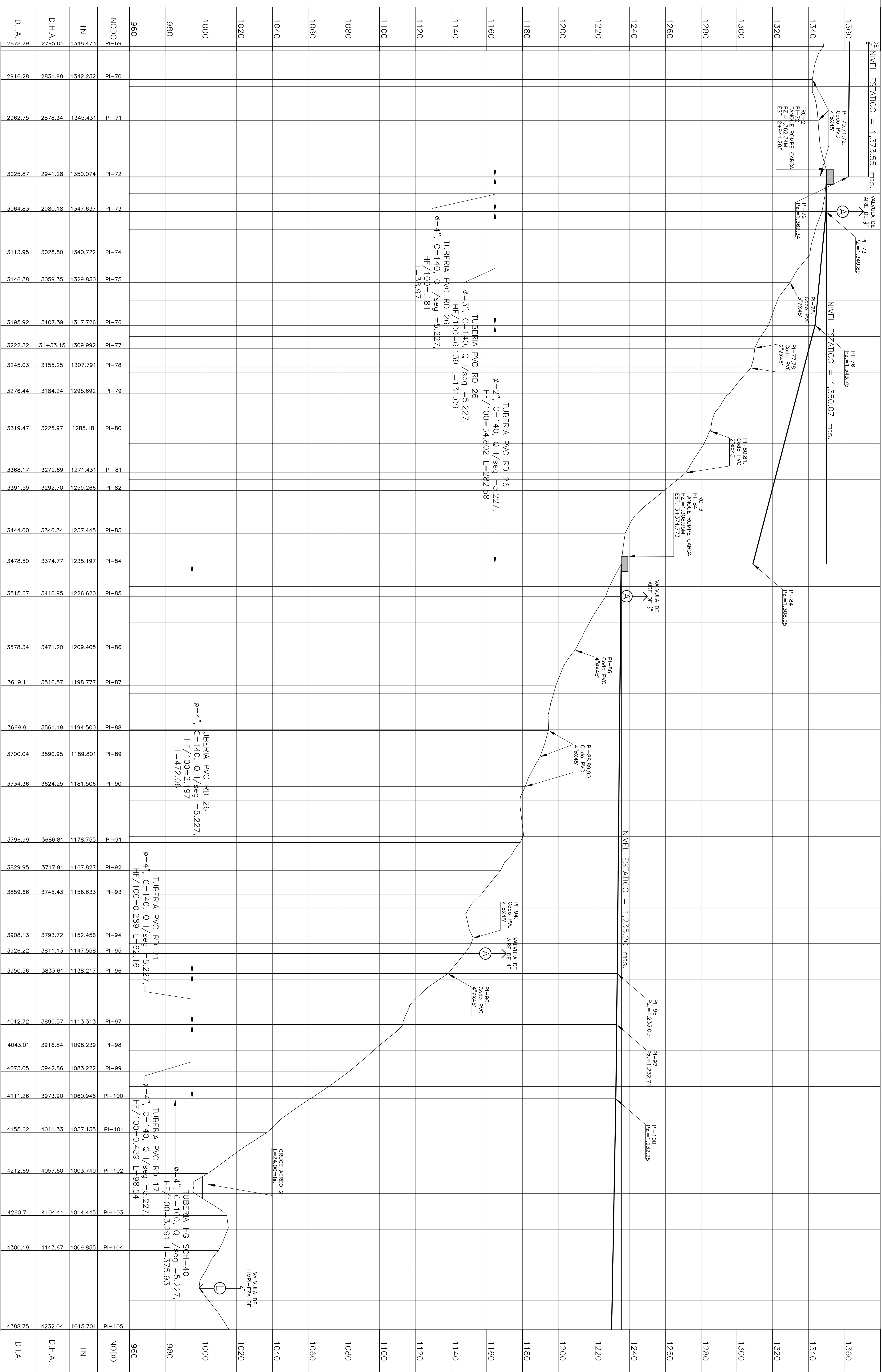
BMS	ESTE	NORTE	ELEVACION	UBICACION
BM #1	461,321.463	1,599,874.694	1427.317	OBRA DE TOMA
BM #2	461,194.654	1,598,064.693	1406.529	CERCA DE ESTACION 0+268.202
BM #3	461,083.571	1,596,288.794	1398.478	CERCA DE ESTACION 0+567.275
BM #4	460,773.777	1,596,673.558	1333.701	CERCA DE ESTACION 1+088.636
BM #5	462,527.683	1,598,633.367	1014.236	CERCA DE ESTACION 4+100.863
BM #6	462,938.158	1,599,019.115	1131.237	CERCA DE ESTACION 4+680
BM #7	463,727.326	1,599,646.726	1152.667	CERCA DE ESTACION 5+780
BM #8	465,128.498	1,600,089.258	984.373	CERCA DE ESTACION 7+280
BM #9	465,302.164	1,600,240.863	934.174	CERCA DE ESTACION 7+520



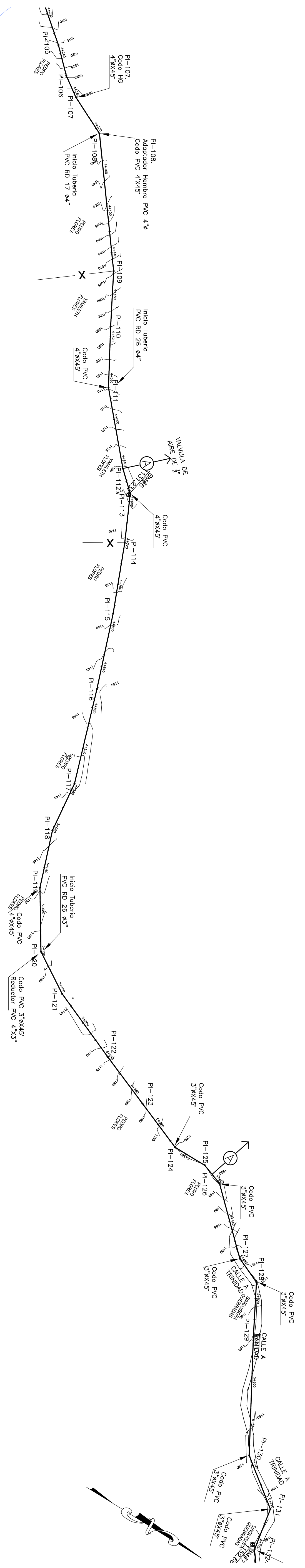
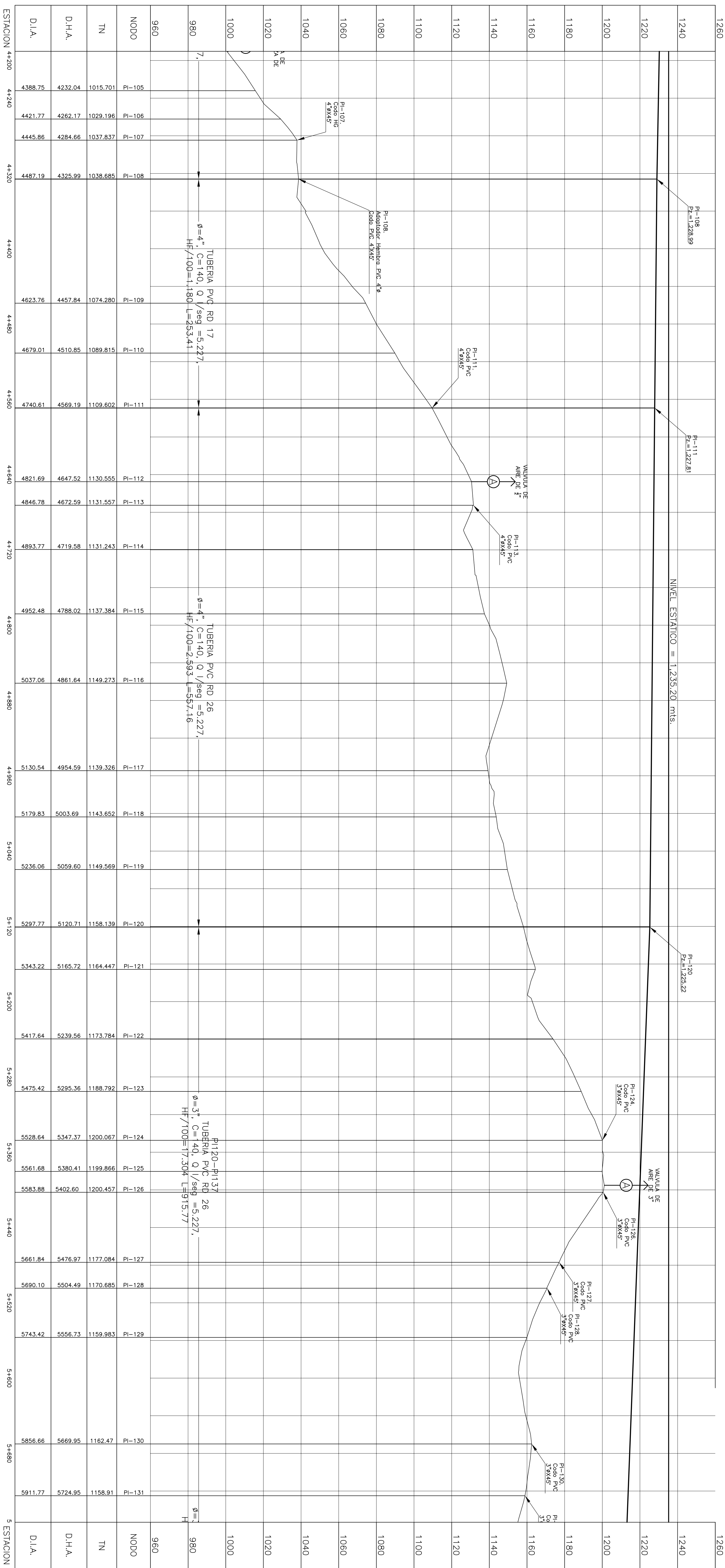
ESTACION	NIVEL ESTÁTICO	NIVEL HIDRÁULICO	GRADIENTE	TIPO DE TUBERÍA	DIAMETRO	LONGITUD	PERDIDA DE CARGA	ESTACION
0+000	1440.00	1440.00						0+000
0+050	1430.00	1430.00						0+050
0+100	1422.238	1422.238						0+100
0+150	1418.802	1418.802						0+150
0+200	1418.512	1418.512						0+200
0+250	1418.483	1418.483						0+250
0+300	1411.705	1411.705						0+300
0+350	1407.809	1407.809						0+350
0+400	1409.517	1409.517						0+400
0+450	1405.199	1405.199						0+450
0+500	1398.170	1398.170						0+500
0+550	1402.146	1402.146						0+550
0+600	1398.661	1398.661						0+600
0+650	1401.052	1401.052						0+650
0+700	1395.03	1395.03						0+700
0+750	1393.937	1393.937						0+750
0+800	1388.187	1388.187						0+800
0+850	1387.827	1387.827						0+850
0+900	1385.711	1385.711						0+900
0+950	1369.594	1369.594						0+950
1+000	1373.55	1373.55						1+000
1+050	1345.193	1345.193						1+050
1+100	1342.049	1342.049						1+100
1+150	1333.616	1333.616						1+150
1+200	1318.011	1318.011						1+200
1+250	1299.481	1299.481						1+250
1+300	1291.986	1291.986						1+300
1+350	1287.433	1287.433						1+350
1+400	1277.119	1277.119						1+400
1+450	1263.521	1263.521						1+450
1+500	1228.389	1228.389						1+500
1+550	1228.389	1228.389						1+550
1+600	1228.389	1228.389						1+600
1+650	1228.389	1228.389						1+650
1+700	1228.389	1228.389						1+700
1+750	1228.389	1228.389						1+750
1+800	1228.389	1228.389						1+800
1+850	1228.389	1228.389						1+850
1+900	1228.389	1228.389						1+900
1+950	1228.389	1228.389						1+950
1+400	1413.80	1413.80						1+400
1+450	1384.11	1384.11						1+450
1+500	1339.16	1339.16						1+500
1+550	1304.83	1304.83						1+550
1+600	1254.91	1254.91						1+600
1+650	1232.90	1232.90						1+650
1+700	1207.17	1207.17						1+700
1+750	1128.42	1128.42						1+750
1+800	1071.86	1071.86						1+800
1+850	1040.48	1040.48						1+850
1+900	1019.51	1019.51						1+900
1+950	986.98	986.98						1+950
1+400	918.03	918.03						1+400
1+450	888.47	888.47						1+450
1+500	892.66	892.66						1+500
1+550	739.17	739.17						1+550
1+600	705.32	705.32						1+600
1+650	650.23	650.23						1+650
1+700	564.56	564.56						1+700
1+750	526.09	526.09						1+750
1+800	471.37	471.37						1+800
1+850	439.77	439.77						1+850
1+900	378.29	378.29						1+900
1+950	277.66	277.66						1+950
2+000	238.65	238.65						2+000
2+050	211.81	211.81						2+050
2+100	156.92	156.92						2+100
2+150	115.24	115.24						2+150
2+200	87.29	87.29						2+200
2+250	68.52	68.52						2+250
2+300	45.58	45.58						2+300
2+350	0.00	0.00						2+350

ESTACION	1+400	1+440	1+520	1+600	1+680	1+760	1+840	1+920	2+000	2+080	2+160	2+240	2+320	2+400	2+480	2+560	2+640	2+720	2+800 ESTACION																					
D.I.A.	1413.60	1455.98	1500.93	1535.66	1582.86	1615.23	1659.02	1746.61	1789.03	1858.98	1876.70	1946.07	1966.41	2018.10	2058.34	2084.36	2121.75	2153.74	2188.56	2219.23	2263.27	2278.13	2354.85	2378.97	2402.11	2446.86	2489.71	2511.07	2561.45	2610.28	2643.65	2682.94	2702.28	2727.24	2747.96	2774.13	2801.65	2838.04	2878.79	
D.H.A.	1384.11	1424.69	1464.79	1498.95	1545.86	1577.87	1621.64	1709.12	1748.97	1818.10	1835.11	1891.23	1908.90	1953.86	1986.50	2012.32	2049.49	2081.40	2115.90	2146.09	2189.91	2204.60	2279.90	2303.65	2326.41	2370	2411.85	2432.70	2481.96	2529.97	2562.58	2600.96	2619.89	2644.23	2690.55	2717.89	2754.27	2795.01		
TN	1228.389	1216.196	1195.882	1189.609	1184.399	1179.536	1178.351	1182.651	1192.211	1207.866	1202.915	1162.126	1172.199	1197.685	1221.231	1224.466	1228.504	1230.673	1235.412	1240.791	1245.236	1247.461	1262.17	1266.354	1270.539	1280.672	1289.884	1294.494	1305.097	1313.955	1321.065	1329.484	1333.436	1338.942	1342.645	1346.167	1349.398	1349.325	1348.473	
NODO	PI-30	PI-31	PI-32	PI-33	PI-34	PI-35	PI-36	PI-37	PI-38	PI-39	PI-40	PI-41	PI-42	PI-43	PI-44	PI-45	PI-46	PI-47	PI-48	PI-49	PI-50	PI-51	PI-52	PI-53	PI-54	PI-55	PI-56	PI-57	PI-58	PI-59	PI-60	PI-61	PI-62	PI-63	PI-64	PI-65	PI-66	PI-67	PI-68	PI-69
1160	TUBERIA PVC RD 17 $\phi=4"$, C=140, Q L/seg=5.227 HF/100=0.591 L=189.26																				TUBERIA HG-SGH-40 $\phi=4"$, C=100, Q L/seg=1.788 L=206.17		TUBERIA PVC RD 17 $\phi=4"$, C=140, Q L/seg=5.227 HF/100=0.408		TUBERIA HG-SGH-40 $\phi=4"$, C=100, Q L/seg=1.788 L=206.17		TUBERIA PVC RD 17 $\phi=4"$, C=140, Q L/seg=5.227 HF/100=1.227 L=141.40		TUBERIA HG-SGH-40 $\phi=4"$, C=140, HF/100=0.482 L=103.65		TUBERIA PVC RD 21 $\phi=4"$, C=140, Q L/seg=0.728 L=24.00mtr.		TUBERIA PVC RD 17 $\phi=4"$, C=140, HF/100=0.482 L=6.37		TUBERIA PVC RD 26 $\phi=4"$, C=140, Q L/seg=5.227, HF/100=3.481 L=77.74					
1180	TUBERIA PVC RD 17 $\phi=4"$, C=140, Q L/seg=5.227 HF/100=0.591 L=189.26																				TUBERIA HG-SGH-40 $\phi=4"$, C=100, Q L/seg=1.788 L=206.17		TUBERIA PVC RD 17 $\phi=4"$, C=140, Q L/seg=5.227 HF/100=0.408		TUBERIA HG-SGH-40 $\phi=4"$, C=100, Q L/seg=1.788 L=206.17		TUBERIA PVC RD 17 $\phi=4"$, C=140, Q L/seg=5.227 HF/100=1.227 L=141.40		TUBERIA HG-SGH-40 $\phi=4"$, C=140, HF/100=0.482 L=103.65		TUBERIA PVC RD 21 $\phi=4"$, C=140, Q L/seg=0.728 L=24.00mtr.		TUBERIA PVC RD 17 $\phi=4"$, C=140, HF/100=0.482 L=6.37		TUBERIA PVC RD 26 $\phi=4"$, C=140, Q L/seg=5.227, HF/100=3.481 L=77.74					
1200	TUBERIA PVC RD 17 $\phi=4"$, C=140, Q L/seg=5.227 HF/100=0.591 L=189.26																				TUBERIA HG-SGH-40 $\phi=4"$, C=100, Q L/seg=1.788 L=206.17		TUBERIA PVC RD 17 $\phi=4"$, C=140, Q L/seg=5.227 HF/100=0.408		TUBERIA HG-SGH-40 $\phi=4"$, C=100, Q L/seg=1.788 L=206.17		TUBERIA PVC RD 17 $\phi=4"$, C=140, Q L/seg=5.227 HF/100=1.227 L=141.40		TUBERIA HG-SGH-40 $\phi=4"$, C=140, HF/100=0.482 L=103.65		TUBERIA PVC RD 21 $\phi=4"$, C=140, Q L/seg=0.728 L=24.00mtr.		TUBERIA PVC RD 17 $\phi=4"$, C=140, HF/100=0.482 L=6.37		TUBERIA PVC RD 26 $\phi=4"$, C=140, Q L/seg=5.227, HF/100=3.481 L=77.74					
1220	TUBERIA PVC RD 17 $\phi=4"$, C=140, Q L/seg=5.227 HF/100=0.591 L=189.26																				TUBERIA HG-SGH-40 $\phi=4"$, C=100, Q L/seg=1.788 L=206.17		TUBERIA PVC RD 17 $\phi=4"$, C=140, Q L/seg=5.227 HF/100=0.408		TUBERIA HG-SGH-40 $\phi=4"$, C=100, Q L/seg=1.788 L=206.17		TUBERIA PVC RD 17 $\phi=4"$, C=140, Q L/seg=5.227 HF/100=1.227 L=141.40		TUBERIA HG-SGH-40 $\phi=4"$, C=140, HF/100=0.482 L=103.65		TUBERIA PVC RD 21 $\phi=4"$, C=140, Q L/seg=0.728 L=24.00mtr.		TUBERIA PVC RD 17 $\phi=4"$, C=140, HF/100=0.482 L=6.37		TUBERIA PVC RD 26 $\phi=4"$, C=140, Q L/seg=5.227, HF/100=3.481 L=77.74					
1240	TUBERIA PVC RD 17 $\phi=4"$, C=140, Q L/seg=5.227 HF/100=0.591 L=189.26																				TUBERIA HG-SGH-40 $\phi=4"$, C=100, Q L/seg=1.788 L=206.17		TUBERIA PVC RD 17 $\phi=4"$, C=140, Q L/seg=5.227 HF/100=0.408		TUBERIA HG-SGH-40 $\phi=4"$, C=100, Q L/seg=1.788 L=206.17		TUBERIA PVC RD 17 $\phi=4"$, C=140, Q L/seg=5.227 HF/100=1.227 L=141.40		TUBERIA HG-SGH-40 $\phi=4"$, C=140, HF/100=0.482 L=103.65		TUBERIA PVC RD 21 $\phi=4"$, C=140, Q L/seg=0.728 L=24.00mtr.		TUBERIA PVC RD 17 $\phi=4"$, C=140, HF/100=0.482 L=6.37		TUBERIA PVC RD 26 $\phi=4"$, C=140, Q L/seg=5.227, HF/100=3.481 L=77.74					
1260	TUBERIA PVC RD 17 $\phi=4"$, C=140, Q L/seg=5.227 HF/100=0.591 L=189.26																				TUBERIA HG-SGH-40 $\phi=4"$, C=100, Q L/seg=1.788 L=206.17		TUBERIA PVC RD 17 $\phi=4"$, C=140, Q L/seg=5.227 HF/100=0.408		TUBERIA HG-SGH-40 $\phi=4"$, C=100, Q L/seg=1.788 L=206.17		TUBERIA PVC RD 17 $\phi=4"$, C=140, Q L/seg=5.227 HF/100=1.227 L=141.40		TUBERIA HG-SGH-40 $\phi=4"$, C=140, HF/100=0.482 L=103.65		TUBERIA PVC RD 21 $\phi=4"$, C=140, Q L/seg=0.728 L=24.00mtr.		TUBERIA PVC RD 17 $\phi=4"$, C=140, HF/100=0.482 L=6.37		TUBERIA PVC RD 26 $\phi=4"$, C=140, Q L/seg=5.227, HF/100=3.481 L=77.74					
1280	TUBERIA PVC RD 17 $\phi=4"$, C=140, Q L/seg=5.227 HF/100=0.591 L=189.26																				TUBERIA HG-SGH-40 $\phi=4"$, C=100, Q L/seg=1.788 L=206.17		TUBERIA PVC RD 17 $\phi=4"$, C=140, Q L/seg=5.227 HF/100=0.408		TUBERIA HG-SGH-40 $\phi=4"$, C=100, Q L/seg=1.788 L=206.17		TUBERIA PVC RD 17 $\phi=4"$, C=140, Q L/seg=5.227 HF/100=1.227 L=141.40		TUBERIA HG-SGH-40 $\phi=4"$, C=140, HF/100=0.482 L=103.65		TUBERIA PVC RD 21 $\phi=4"$, C=140, Q L/seg=0.728 L=24.00mtr.		TUBERIA PVC RD 17 $\phi=4"$, C=140, HF/100=0.482 L=6.37		TUBERIA PVC RD 26 $\phi=4"$, C=140, Q L/seg=5.227, HF/100=3.481 L=77.74					
1300	TUBERIA PVC RD 17 $\phi=4"$, C=140, Q L/seg=5.227 HF/100=0.591 L=189.26																				TUBERIA HG-SGH-40 $\phi=4"$, C=100, Q L/seg=1.788 L=206.17		TUBERIA PVC RD 17 $\phi=4"$, C=140, Q L/seg=5.227 HF/100=0.408		TUBERIA HG-SGH-40 $\phi=4"$, C=100, Q L/seg=1.788 L=206.17		TUBERIA PVC RD 17 $\phi=4"$, C=140, Q L/seg=5.227 HF/100=1.227 L=141.40		TUBERIA HG-SGH-40 $\phi=4"$, C=140, HF/100=0.482 L=103.65		TUBERIA PVC RD 21 $\phi=4"$, C=140, Q L/seg=0.728 L=24.00mtr.		TUBERIA PVC RD 17 $\phi=4"$, C=140, HF/100=0.482 L=6.37		TUBERIA PVC RD 26 $\phi=4"$, C=140, Q L/seg=5.227, HF/100=3.481 L=77.74					
1320	TUBERIA PVC RD 17 $\phi=4"$, C=140, Q L/seg=5.227 HF/100=0.591 L=189.26																				TUBERIA HG-SGH-40 $\phi=4"$, C=100, Q L/seg=1.788 L=206.17		TUBERIA PVC RD 17 $\phi=4"$, C=140, Q L/seg=5.227 HF/100=0.408		TUBERIA HG-SGH-40 $\phi=4"$, C=100, Q L/seg=1.788 L=206.17		TUBERIA PVC RD 17 $\phi=4"$, C=140, Q L/seg=5.227 HF/100=1.227 L=141.40		TUBERIA HG-SGH-40 $\phi=4"$, C=140, HF/100=0.482 L=103.65		TUBERIA PVC RD 21 $\phi=4"$, C=140, Q L/seg=0.728 L=24.00mtr.		TUBERIA PVC RD 17 $\phi=4"$, C=140, HF/100=0.482 L=6.37		TUBERIA PVC RD 26 $\phi=4"$, C=140, Q L/seg=5.227, HF/100=3.481 L=77.74					
1340	TUBERIA PVC RD 17 $\phi=4"$, C=140, Q L/seg=5.227 HF/100=0.591 L=189.26																				TUBERIA HG-SGH-40 $\phi=4"$, C=100, Q L/seg=1.788 L=206.17		TUBERIA PVC RD 17 $\phi=4"$, C=140, Q L/seg=5.227 HF/100=0.408		TUBERIA HG-SGH-40 $\phi=4"$, C=100, Q L/seg=1.788 L=206.17		TUBERIA PVC RD 17 $\phi=4"$, C=140, Q L/seg=5.227 HF/100=1.227 L=141.40		TUBERIA HG-SGH-40 $\phi=4"$, C=140, HF/100=0.482 L=103.65		TUBERIA PVC RD 21 $\phi=4"$, C=140, Q L/seg=0.728 L=24.00mtr.		TUBERIA PVC RD 17 $\phi=4"$, C=140, HF/100=0.482 L=6.37		TUBERIA PVC RD 26 $\phi=4"$, C=140, Q L/seg=5.227, HF/100=3.481 L=77.74					
1360	TUBERIA PVC RD 17 $\phi=4"$, C=140, Q L/seg=5.227 HF/100=0.591 L=189.26																				TUBERIA HG-SGH-40 $\phi=4"$, C=100, Q L/seg=1.788 L=206.17		TUBERIA PVC RD 17 $\phi=4"$, C=140, Q L/seg=5.227 HF/100=0.408		TUBERIA HG-SGH-40 $\phi=4"$, C=100, Q L/seg=1.788 L=206.17		TUBERIA PVC RD 17 $\phi=4"$, C=140, Q L/seg=5.227 HF/100=1.227 L=141.40		TUBERIA HG-SGH-40 $\phi=4"$, C=140, HF/100=0.482 L=103.65		TUBERIA PVC RD 21 $\phi=4"$, C=140, Q L/seg=0.728 L=24.00mtr.		TUBERIA PVC RD 17 $\phi=4"$, C=140, HF/100=0.482 L=6.37		TUBERIA PVC RD 26 $\phi=4"$, C=140, Q L/seg=5.227, HF/100=3.481 L=77.74					
1380	TUBERIA PVC RD 17 $\phi=4"$, C=140, Q L/seg=5.227 HF/100=0.591 L=189.26																				TUBERIA HG-SGH-40 $\phi=4"$, C=100, Q L/seg=1.788 L=206.17		TUBERIA PVC RD 17 $\phi=4"$, C=140, Q L/seg=5.227 HF/100=0.408		TUBERIA HG-SGH-40 $\phi=4"$, C=100, Q L/seg=1.788 L=206.17		TUBERIA PVC RD 17 $\phi=4"$, C=140, Q L/seg=5.227 HF/100=1.227 L=141.40		TUBERIA HG-SGH-40 $\phi=4"$, C=140, HF/100=0.482 L=103.65		TUBERIA PVC RD 21 $\phi=4"$, C=140, Q L/seg=0.728 L=24.00mtr.		TUBERIA PVC RD 17 $\phi=4"$, C=140, HF/100=0.482 L=6.37		TUBERIA PVC RD 26 $\phi=4"$, C=140, Q L/seg=5.227, HF/100=3.481 L=77.74					
1400	TUBERIA PVC RD 17 $\phi=4"$, C=140, Q L/seg=5.227 HF/100=0.591 L=189.26																				TUBERIA HG-SGH-40 $\phi=4"$, C=100, Q L/seg=1.788 L=206.17		TUBERIA PVC RD 17 $\phi=4"$, C=140, Q L/seg=5.227 HF/100=0.408		TUBERIA HG-SGH-40 $\phi=4"$, C=100, Q L/seg=1.788 L=206.17		TUBERIA PVC RD 17 $\phi=4"$, C=140, Q L/seg=5.227 HF/100=1.227 L=141.40		TUBERIA HG-SGH-40 $\phi=4"$, C=140, HF/100=0.482 L=103.65		TUBERIA PVC RD 21 $\phi=4"$, C=140, Q L/seg=0.728 L=24.00mtr.		TUBERIA PVC RD 17 $\phi=4"$, C=140, HF/100=0.482 L=6.37		TUBERIA PVC RD 26 $\phi=4"$, C=140, Q L/seg=5.227, HF/100=3.481 L=77.74					

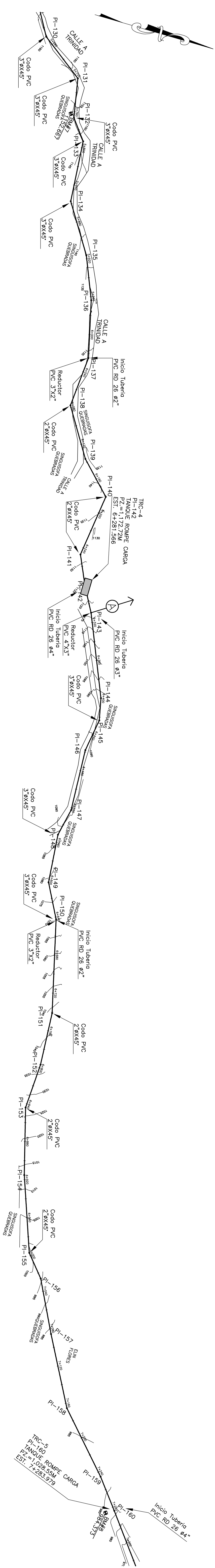


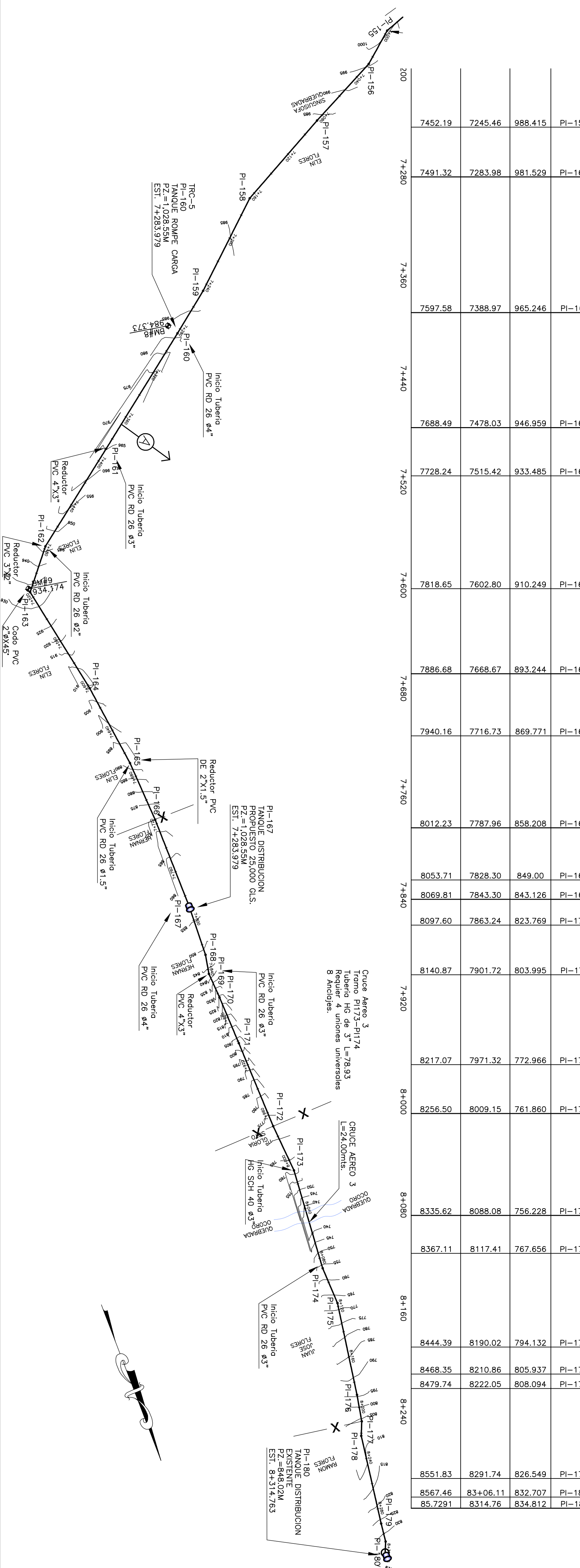
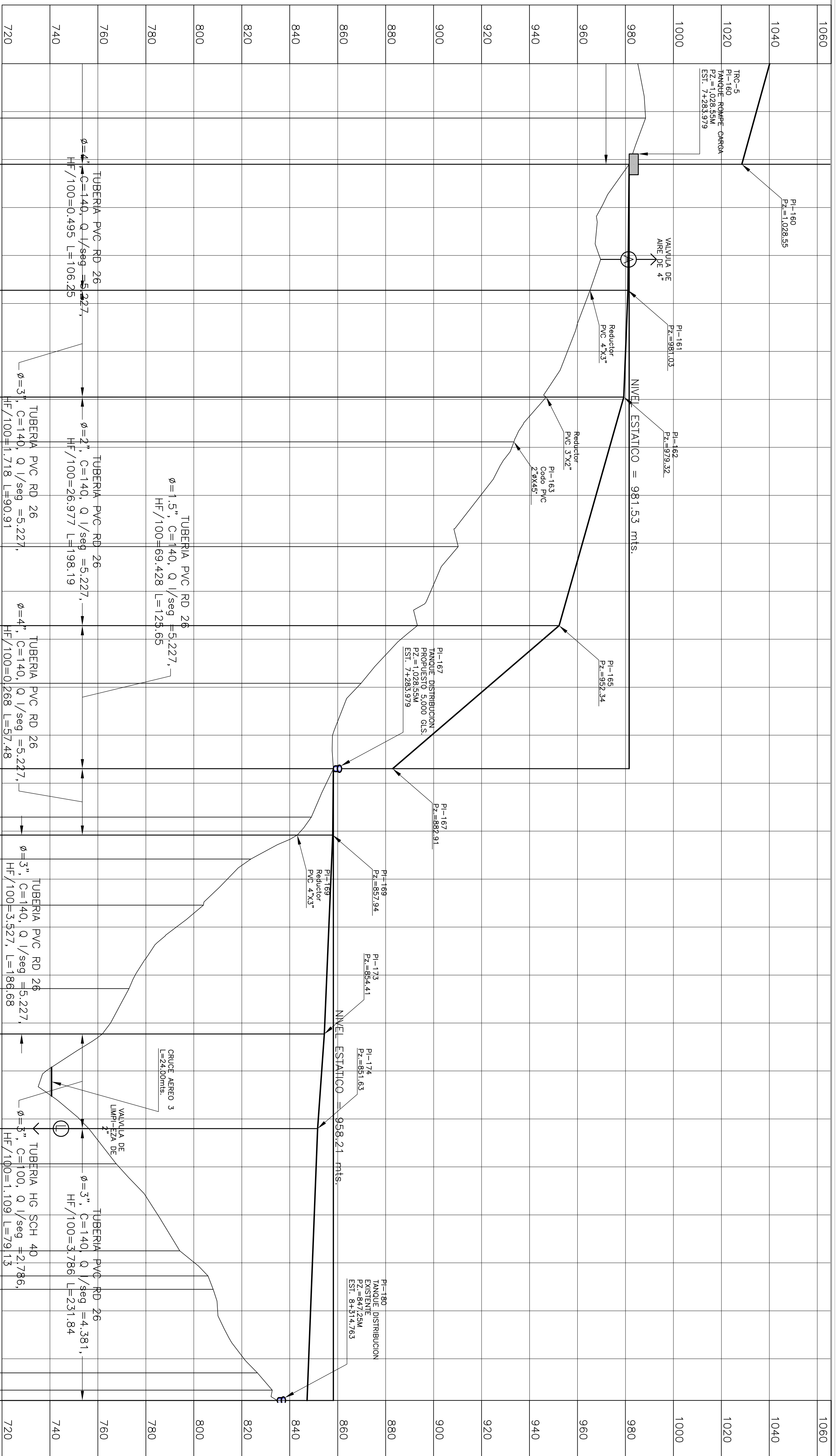


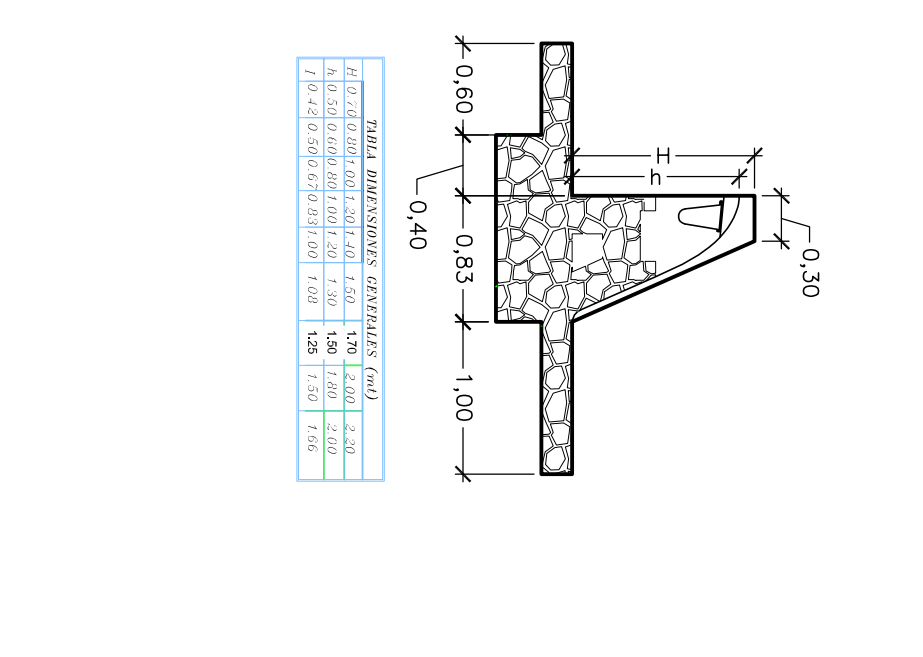
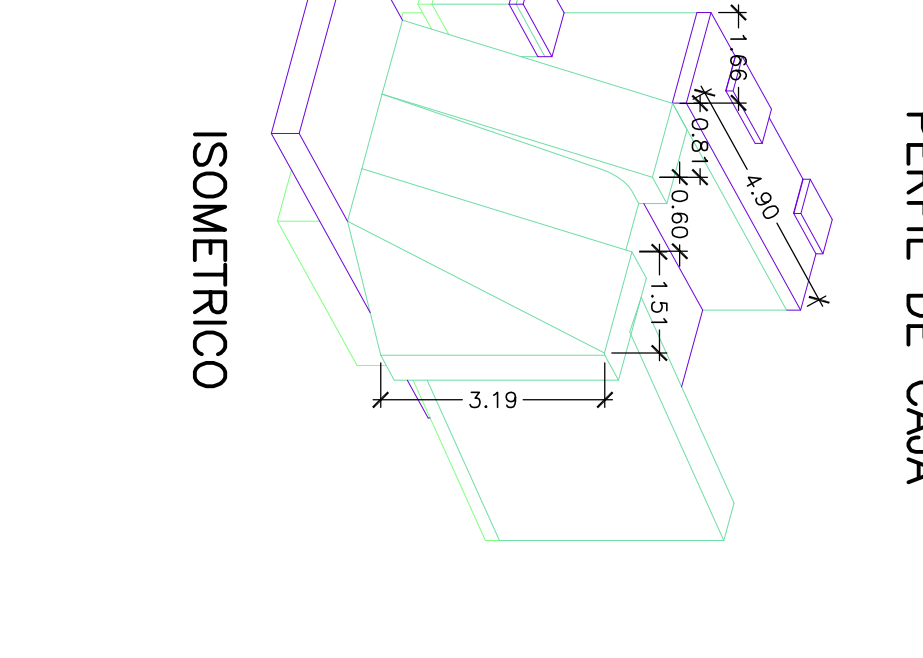
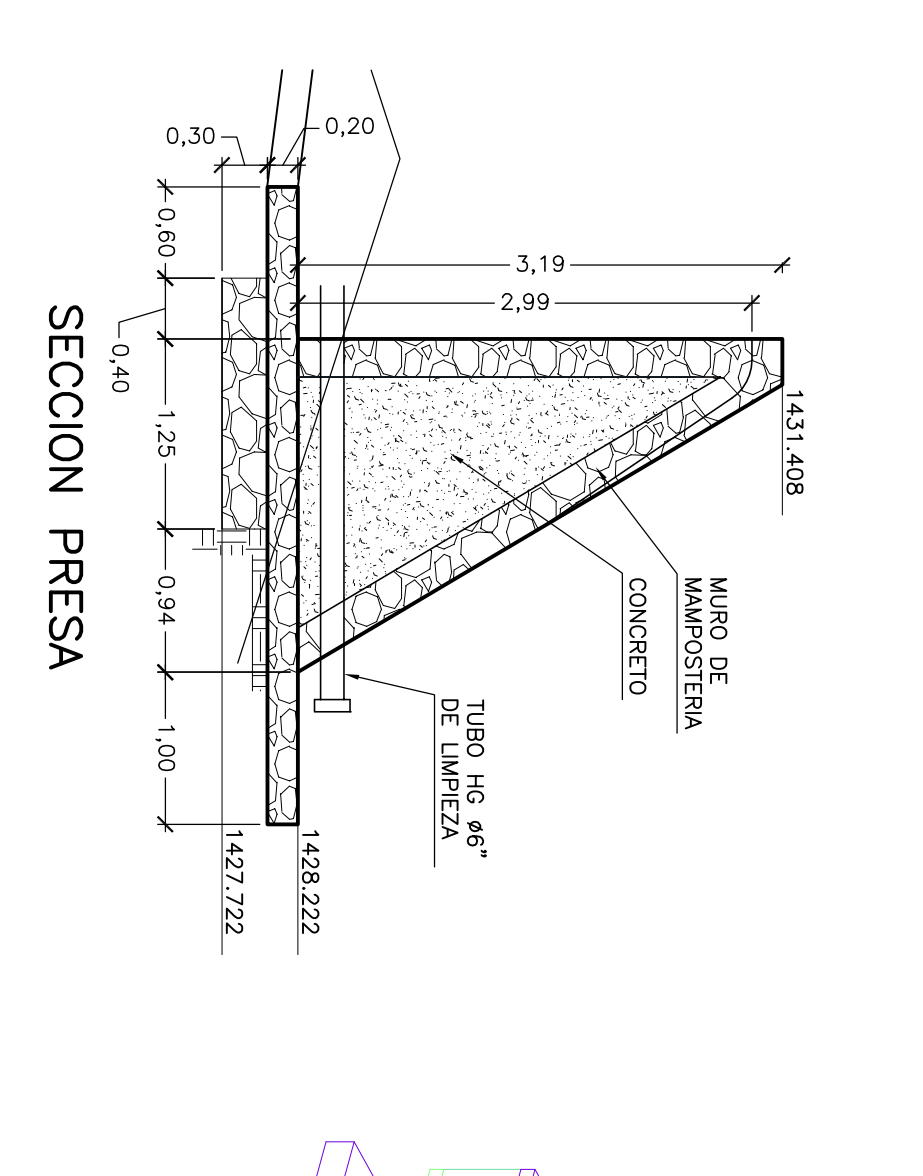
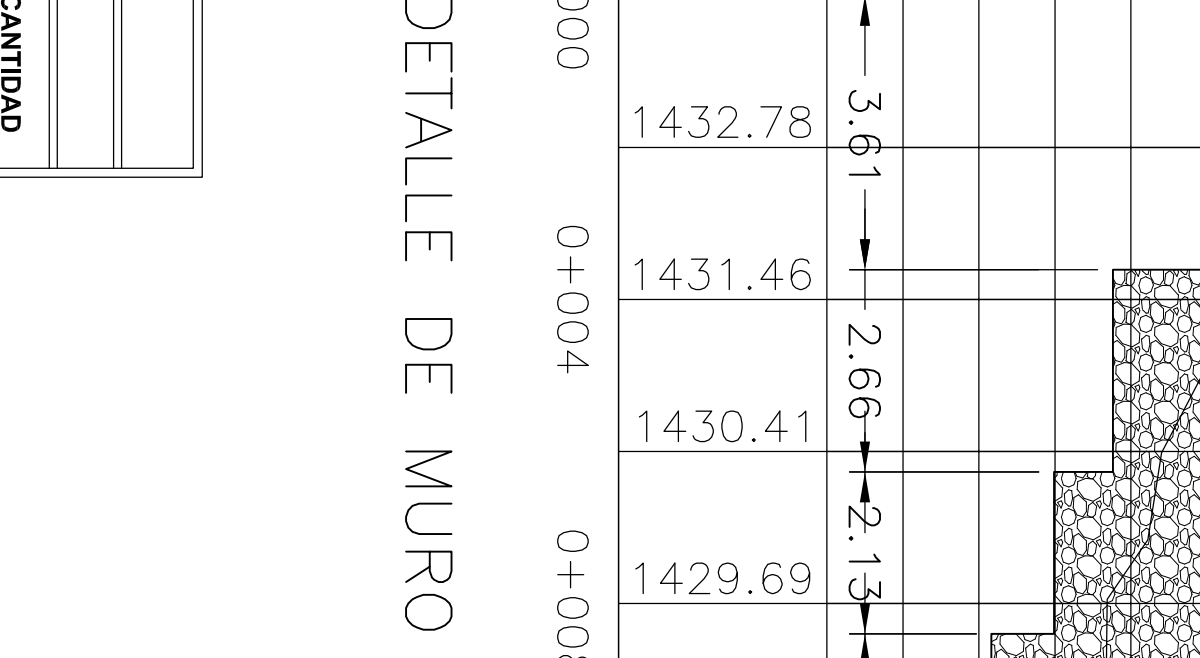
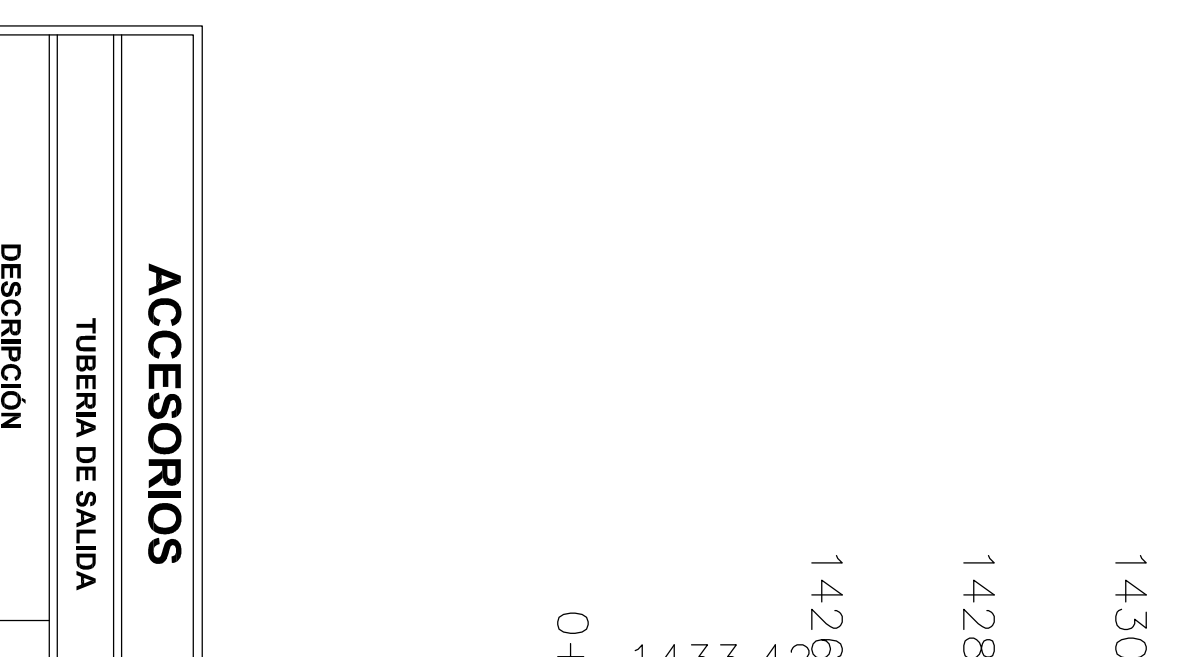
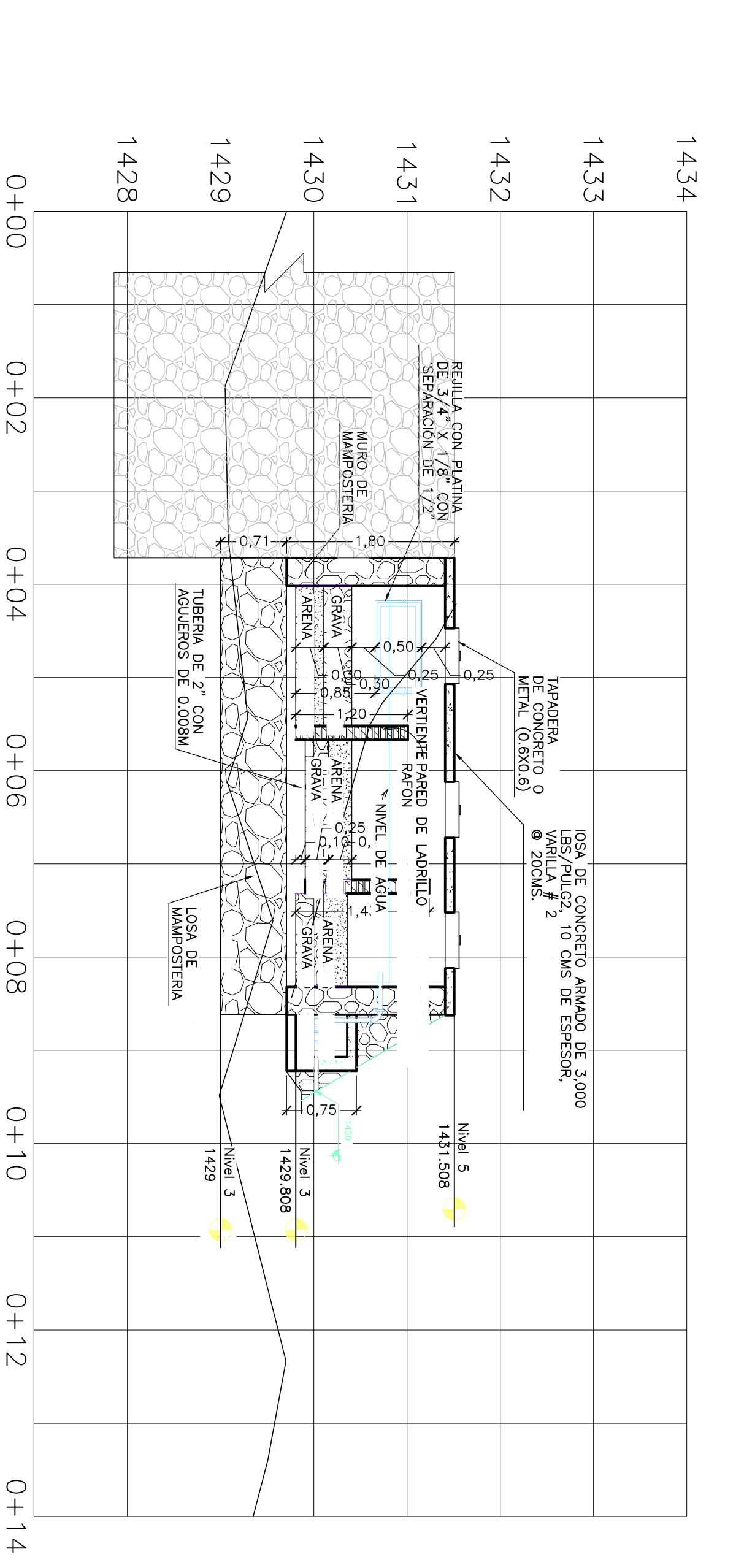
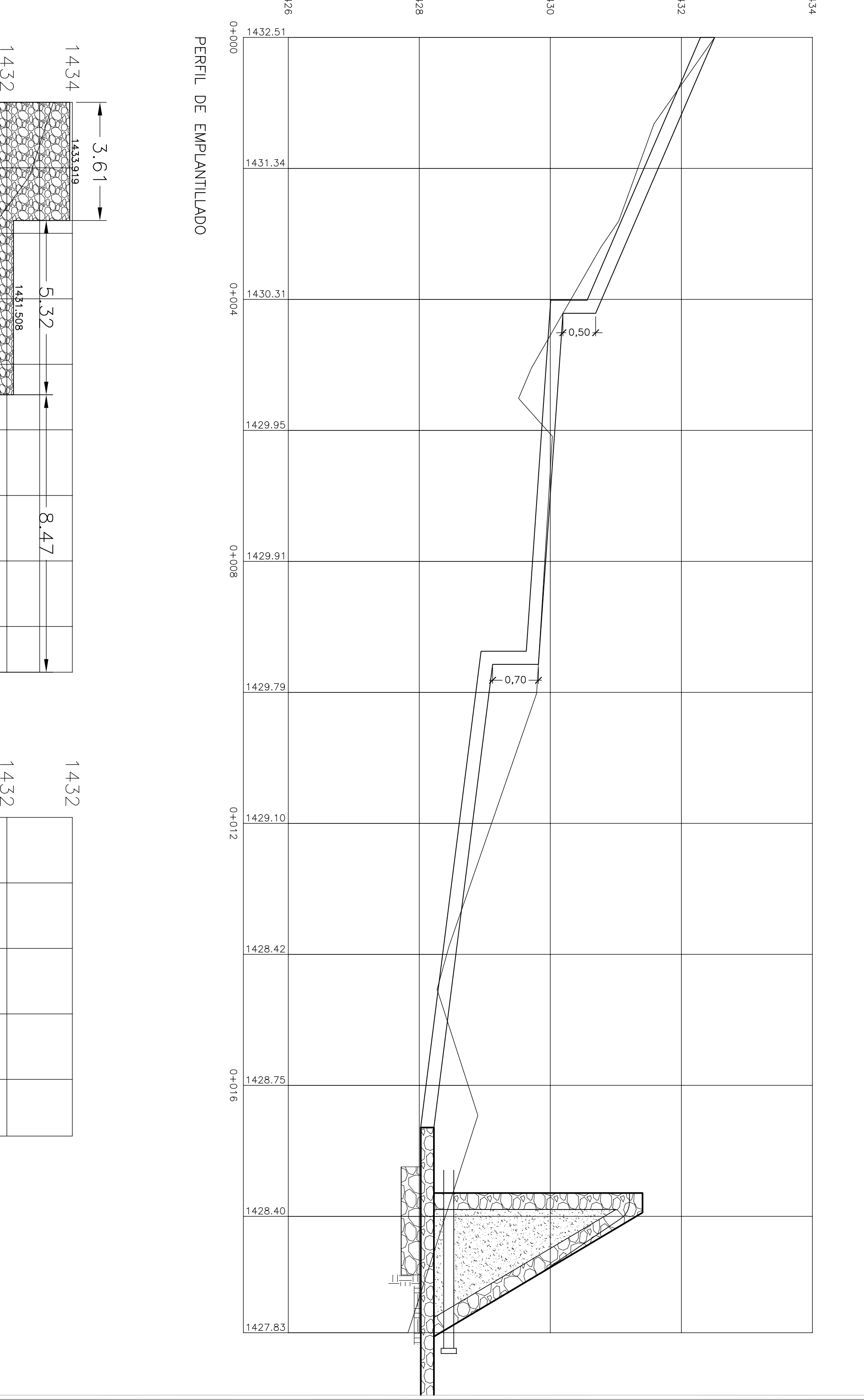
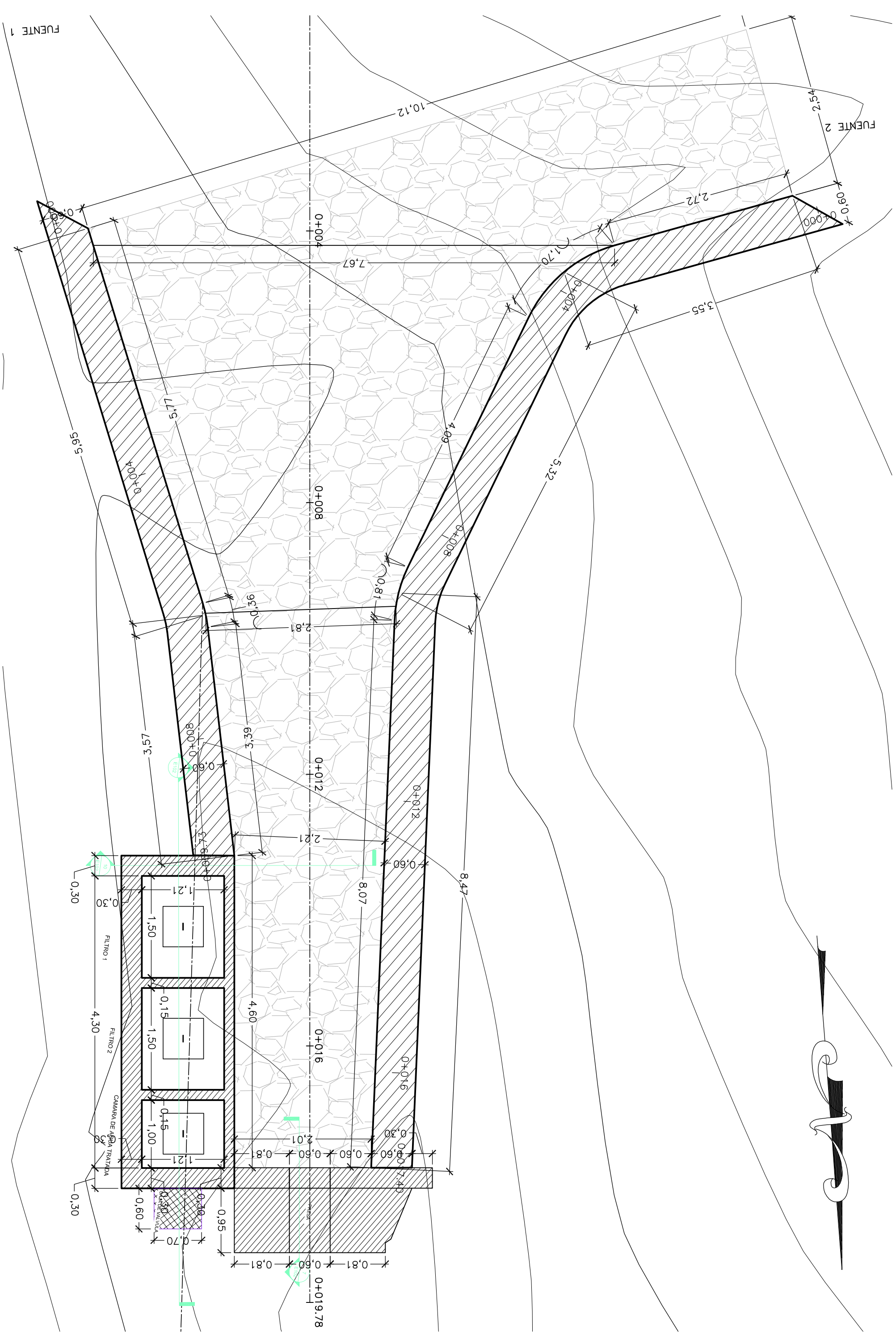
ESTACION	D.A.	NODO	TN	D.H.A.	R/R
2+880	2916.28	PI-70	1348.43	2831.98	2.56/7.2
2+980	3025.87	PI-72	1350.074	2941.28	2.56/7.2
3+040	3113.95	PI-74	1340.722	3028.80	2.56/7.2
3+120	3195.92	PI-76	1317.726	3107.39	2.56/7.2
3+200	3222.82	PI-77	1309.992	31+33.15	2.56/7.2
3+280	3245.03	PI-78	1307.791	3155.25	2.56/7.2
3+360	3276.44	PI-79	1295.692	3184.24	2.56/7.2
3+440	3319.47	PI-80	1285.18	3225.97	2.56/7.2
3+520	3368.17	PI-81	1271.431	3272.69	2.56/7.2
3+600	3391.59	PI-82	1259.266	3292.70	2.56/7.2
3+680	3444.00	PI-83	1237.445	3340.34	2.56/7.2
3+760	3478.50	PI-84	1235.197	3374.77	2.56/7.2
3+840	3515.67	PI-85	1226.620	3410.95	2.56/7.2
3+920	3578.34	PI-86	1209.405	3471.20	2.56/7.2
4+000	3619.11	PI-87	1198.777	3510.57	2.56/7.2
4+080	3669.91	PI-88	1194.500	3561.18	2.56/7.2
4+160	3700.04	PI-89	1189.801	3590.95	2.56/7.2
4+200	3734.36	PI-90	1181.506	3624.25	2.56/7.2
4+240	3796.99	PI-91	1178.755	3686.81	2.56/7.2
4+280	3829.95	PI-92	1167.827	3717.91	2.56/7.2
4+320	3859.66	PI-93	1156.633	3745.43	2.56/7.2
4+360	3908.13	PI-94	1152.456	3793.72	2.56/7.2
4+400	3926.22	PI-95	1147.558	3811.13	2.56/7.2
4+440	3950.56	PI-96	1138.217	3833.61	2.56/7.2
4+480	4012.72	PI-97	1113.313	3890.57	2.56/7.2
4+520	4043.01	PI-98	1098.239	3916.84	2.56/7.2
4+560	4073.05	PI-99	1083.222	3942.86	2.56/7.2
4+600	4111.26	PI-100	1060.946	3973.90	2.56/7.2
4+640	4155.62	PI-101	1037.135	4011.33	2.56/7.2
4+680	4212.69	PI-102	1003.740	4057.60	2.56/7.2
4+720	4260.71	PI-103	1014.445	4104.41	2.56/7.2
4+760	4300.19	PI-104	1009.855	4143.67	2.56/7.2
4+800	4388.75	PI-105	1015.701	4232.04	2.56/7.2



ESTACION	D.I.A.	D.H.A.	TN	NODO	ESTACION	D.I.A.	D.H.A.	TN	NODO
5+760	5911.77	5724.95	1158.91	PI-131	6+000	6213.53	6024.54	1135.894	PI-137
5+840	5953.61	5766.42	1153.378	PI-132	6+080	6266.83	6077.78	1138.456	PI-138
5+920	5980.72	5793.05	1148.325	PI-133	6+160	6325.13	6136.06	1136.988	PI-139
	6045.17	58+57.31	1143.436	PI-134	6+240	6370.50	6181.38	1139.167	PI-140
	6104.41	5916.26	1137.531	PI-135	6+320	6436.96	6247.46	1132.014	PI-141
	6152.51	5963.79	1130.155	PI-136	6+400	6472.07	6281.57	1123.734	PI-142
	6213.53	6024.54	1135.894	PI-137	6+480	6500.96	6309.70	1117.164	PI-143
	6266.83	6077.78	1138.456	PI-138	6+560	6595.51	6399.96	1088.984	PI-144
	6325.13	6136.06	1136.988	PI-139	6+640	6618.95	6423.40	1088.853	PI-145
	6370.50	6181.38	1139.167	PI-140	6+720	6653.54	6457.85	1091.876	PI-146
	6436.96	6247.46	1132.014	PI-141	6+800	6718.36	6522.67	1091.423	PI-147
	6472.07	6281.57	1123.734	PI-142	6+880	6747.62	6551.81	1088.751	PI-148
	6500.96	6309.70	1117.164	PI-143	6+960	6799.51	6602.82	1079.222	PI-149
	6595.51	6399.96	1088.984	PI-144	7+000	6840.15	6642.49	1070.422	PI-150
	6618.95	6423.40	1088.853	PI-145	7+040	6942.34	6741.14	1043.748	PI-151
	6653.54	6457.85	1091.876	PI-146	7+080	6998.01	6796.47	1037.610	PI-152
	6718.36	6522.67	1091.423	PI-147	7+120	7046.83	6844.14	1027.052	PI-153
	6747.62	6551.81	1088.751	PI-148	7+160	7119.11	6915.05	1013.083	PI-154
	6799.51	6602.82	1079.222	PI-149	7+200	7201.82	6996.85	1000.887	PI-155
	6840.15	6642.49	1070.422	PI-150	7+240	7231.76	7026.35	995.727	PI-156
	6942.34	6741.14	1043.748	PI-151	7+280	7292.27	7085.69	983.853	PI-157
	6998.01	6796.47	1037.610	PI-152	7+320	7371.88	7165.29	983.527	PI-158
	7046.83	6844.14	1027.052	PI-153	7+360	7452.19	7245.46	988.415	PI-159
	7119.11	6915.05	1013.083	PI-154	7+400	7491.32	7283.98	981.529	PI-160
	7201.82	6996.85	1000.887	PI-155					
	7231.76	7026.35	995.727	PI-156					
	7292.27	7085.69	983.853	PI-157					
	7371.88	7165.29	983.527	PI-158					
	7452.19	7245.46	988.415	PI-159					
	7491.32	7283.98	981.529	PI-160					

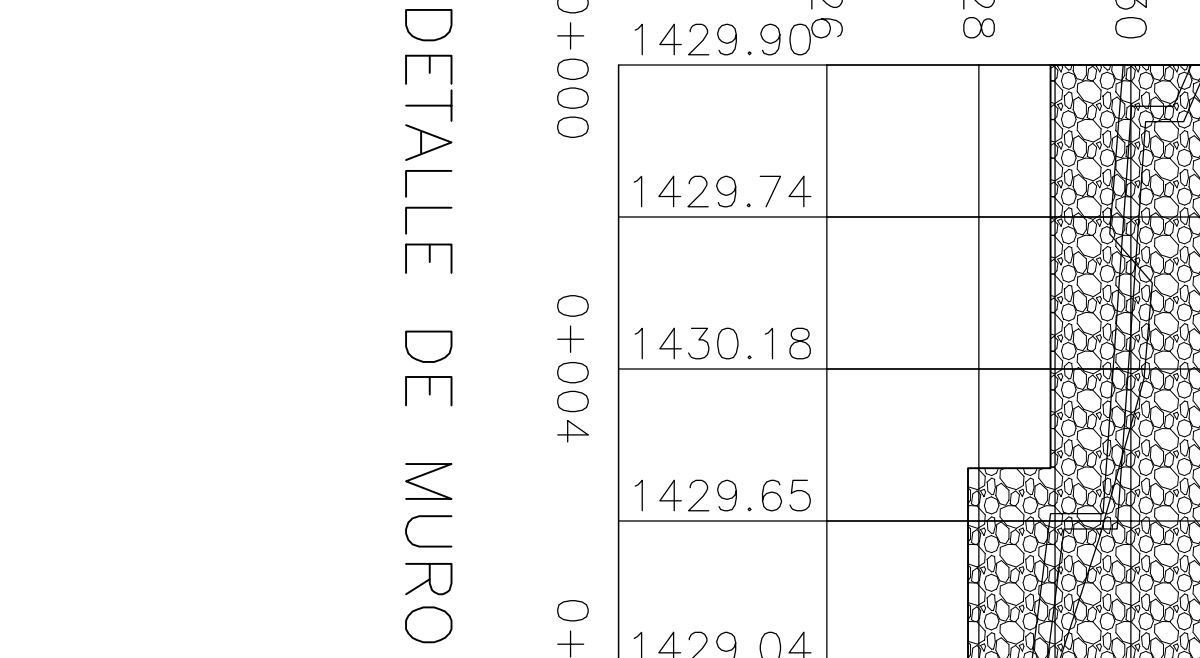
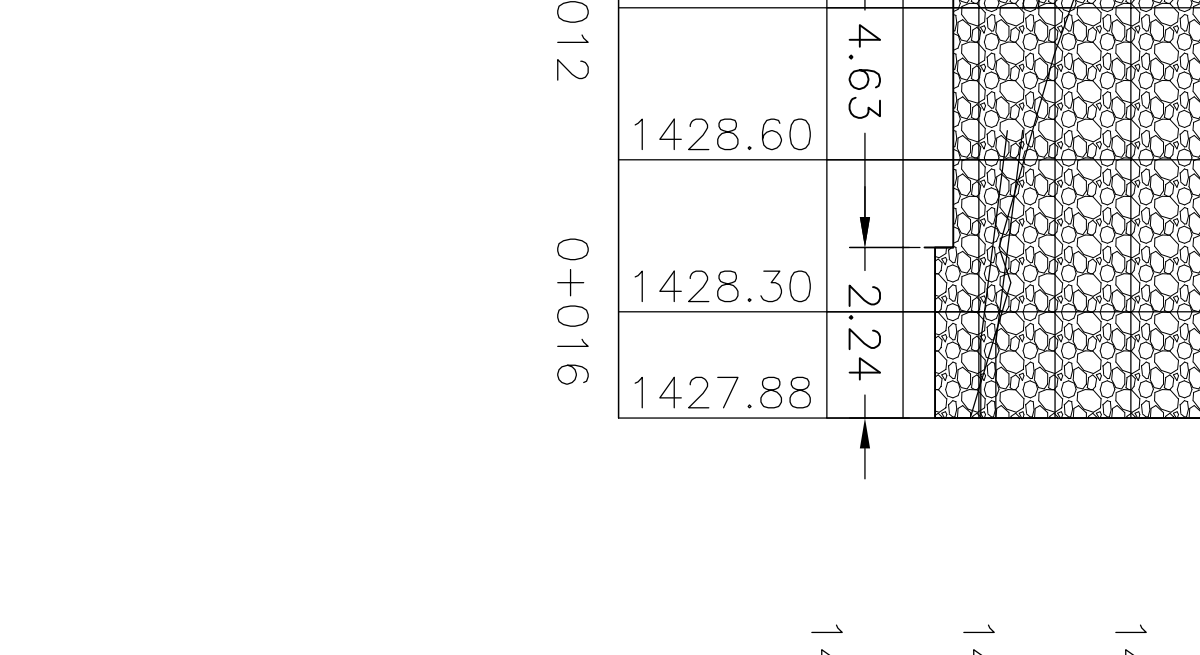
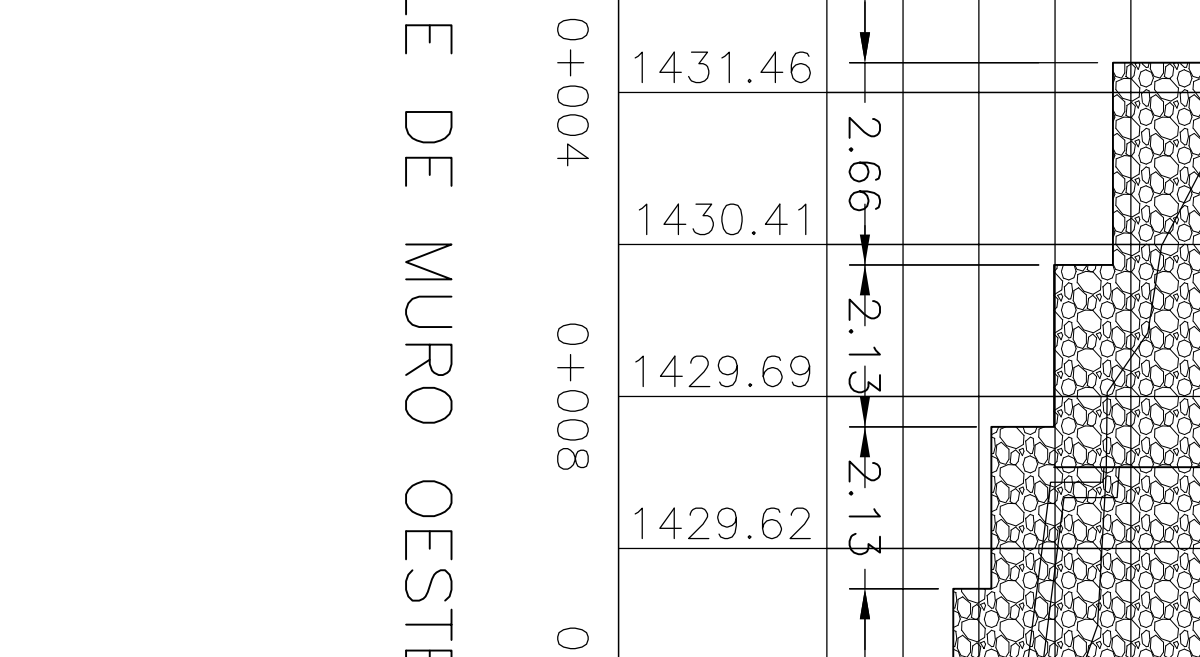


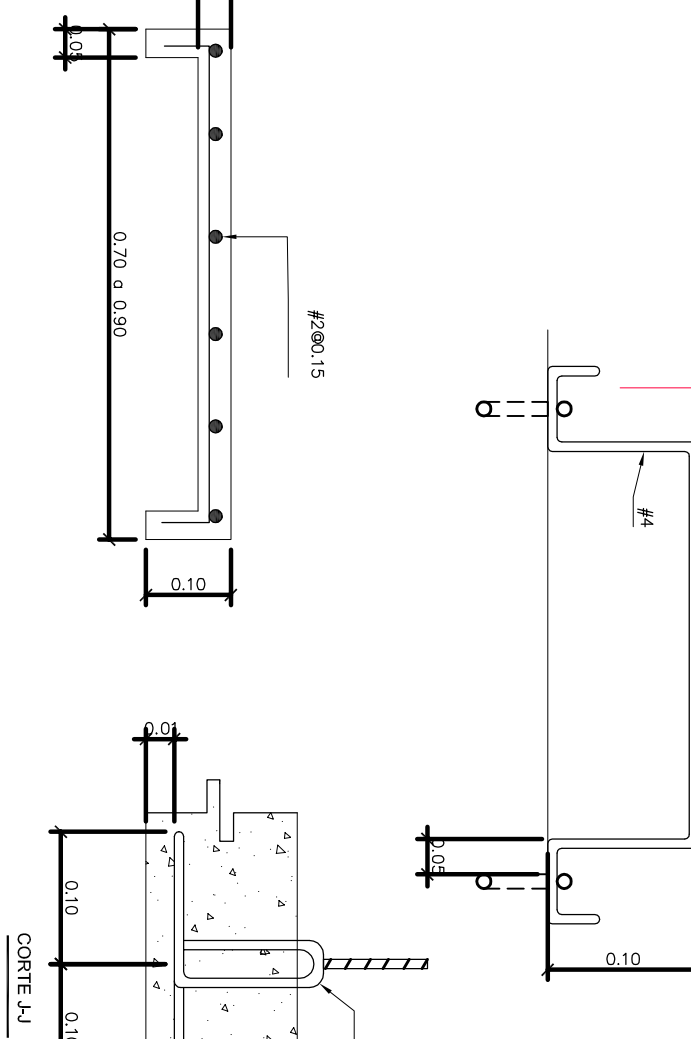
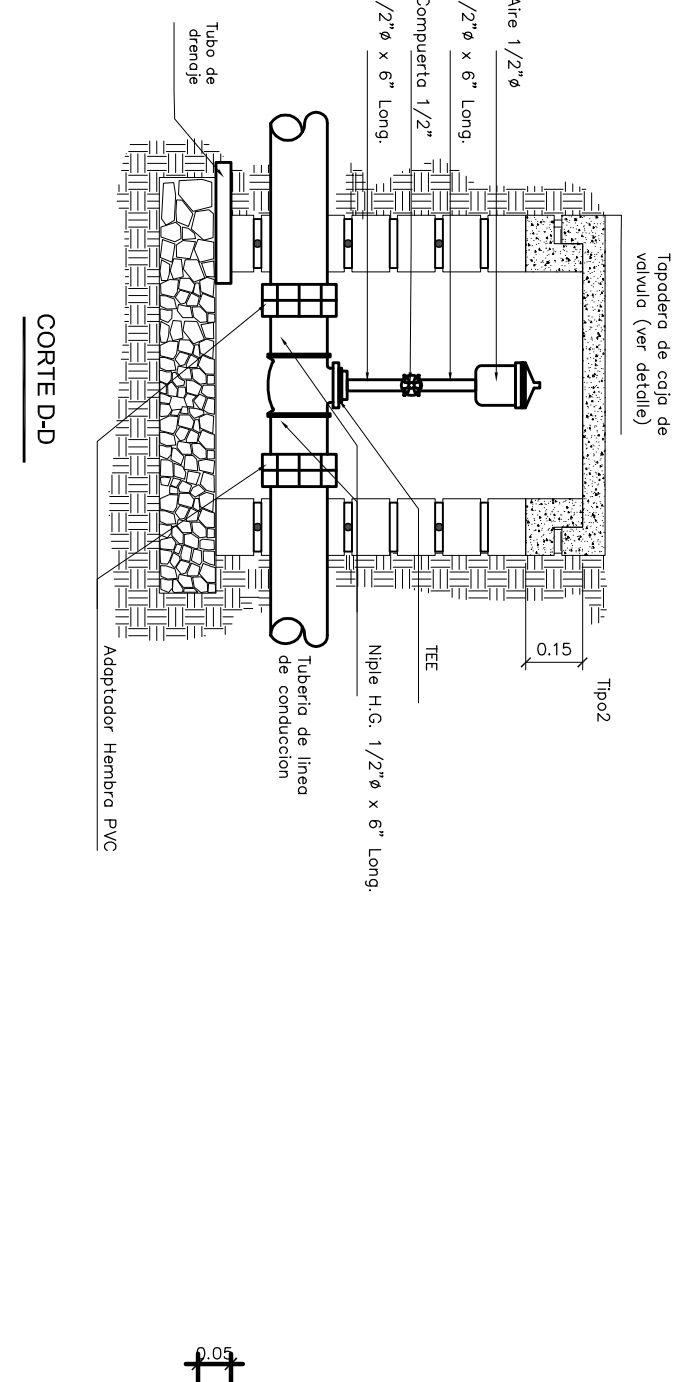
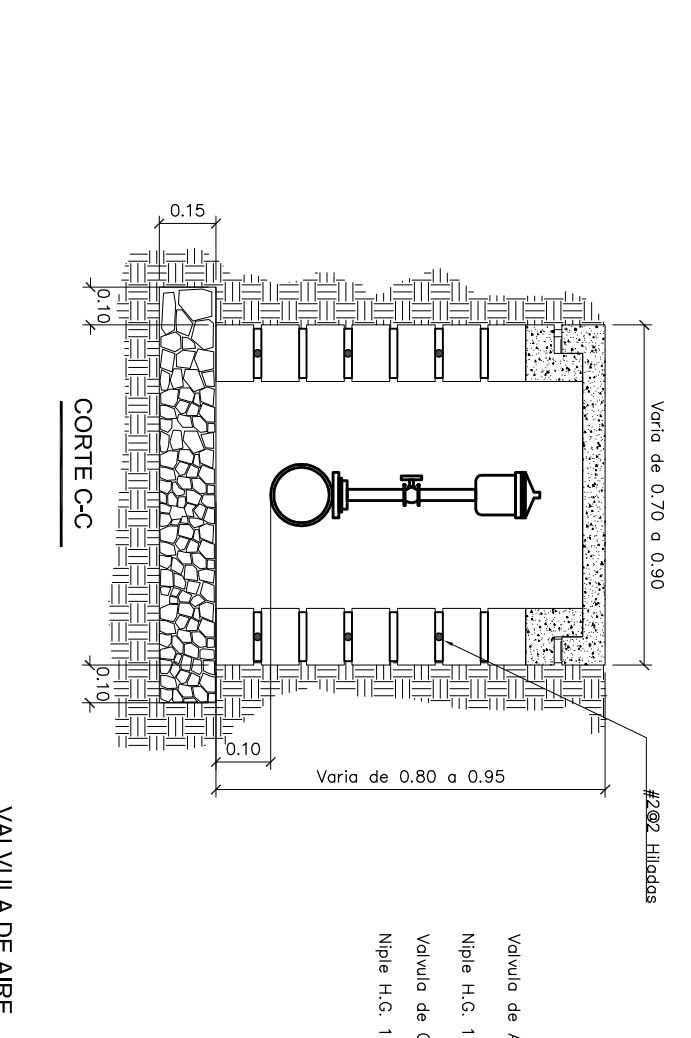
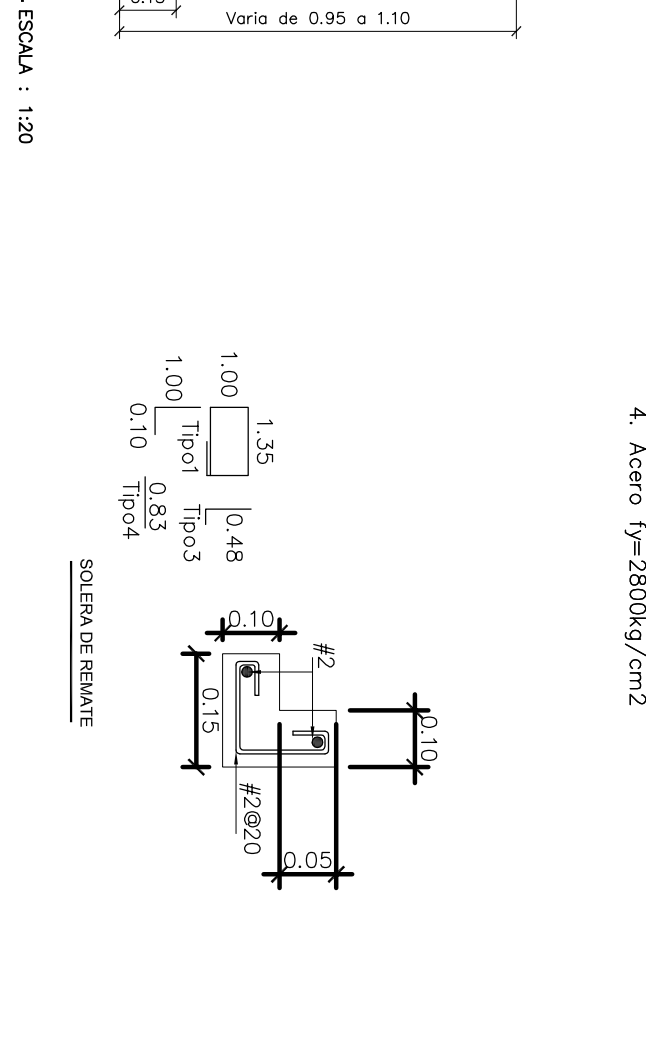
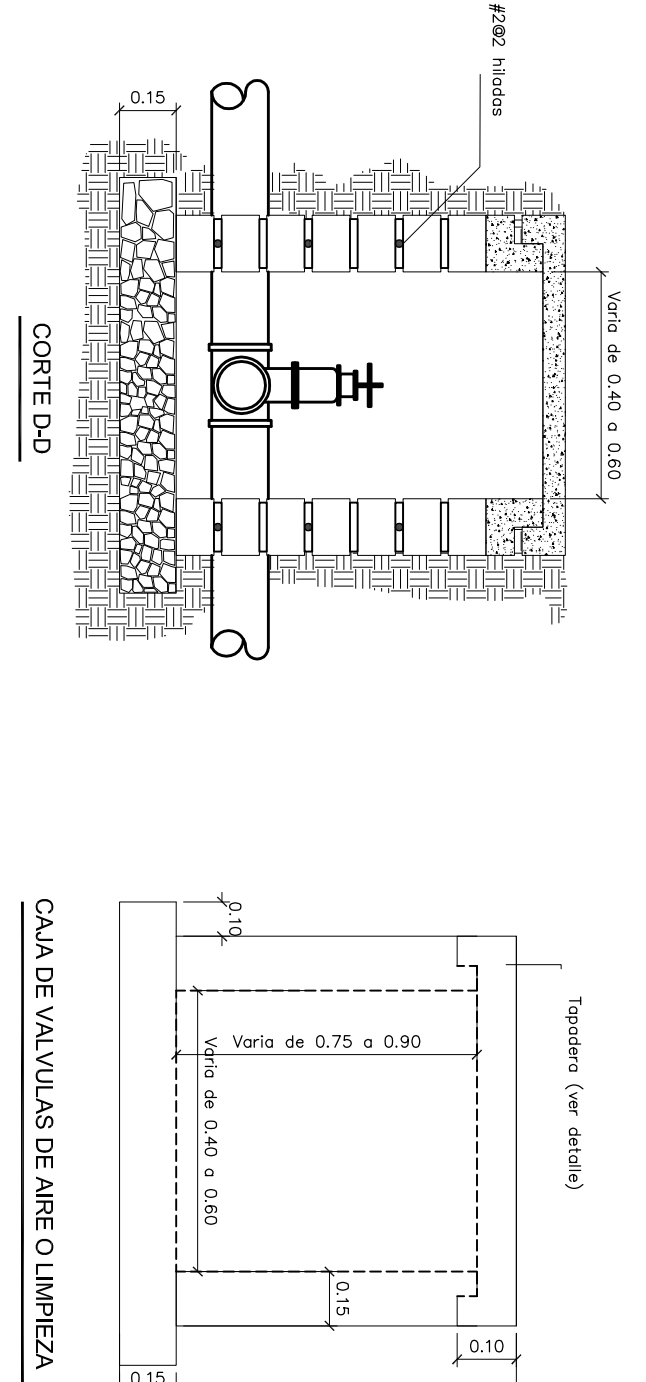
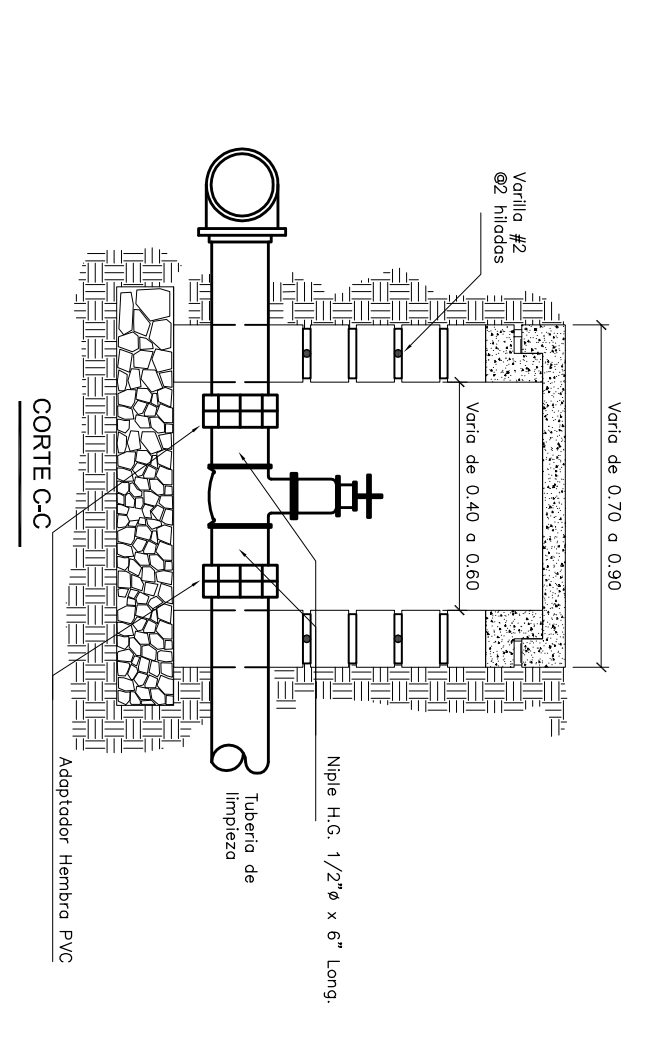
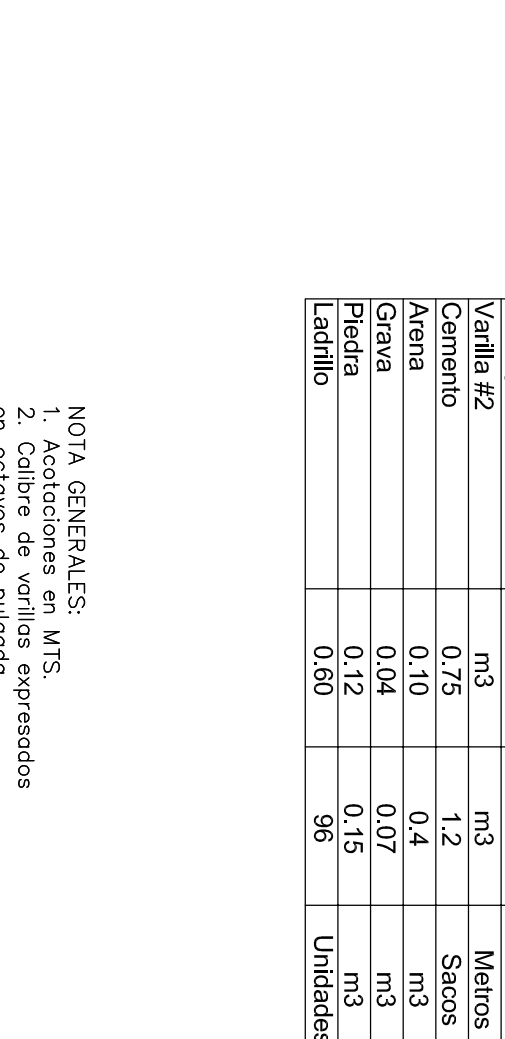
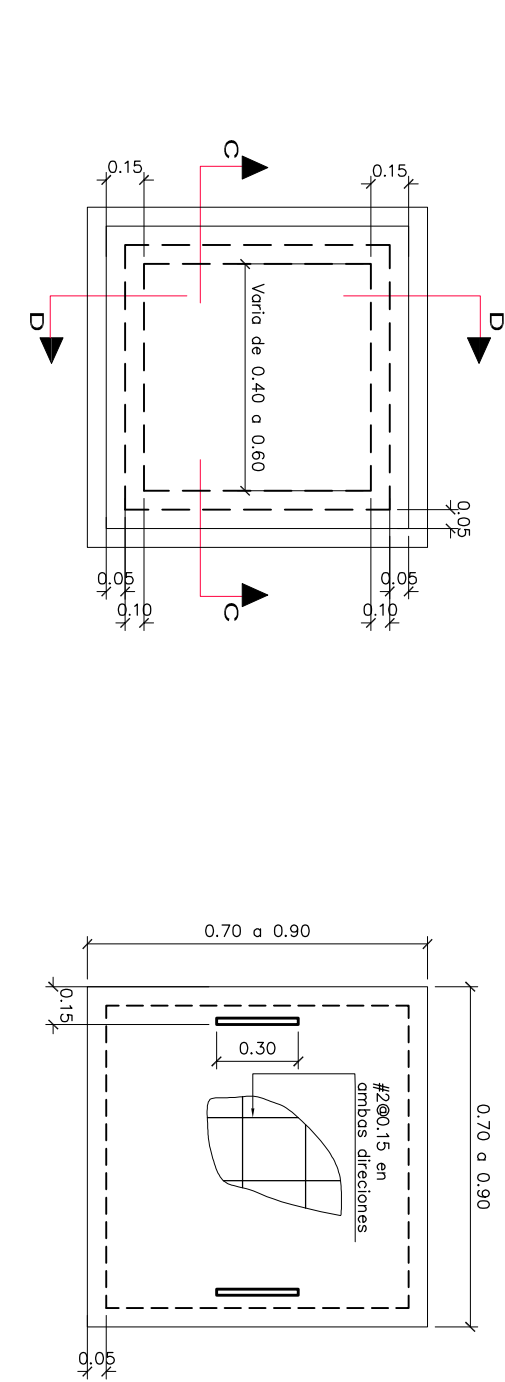
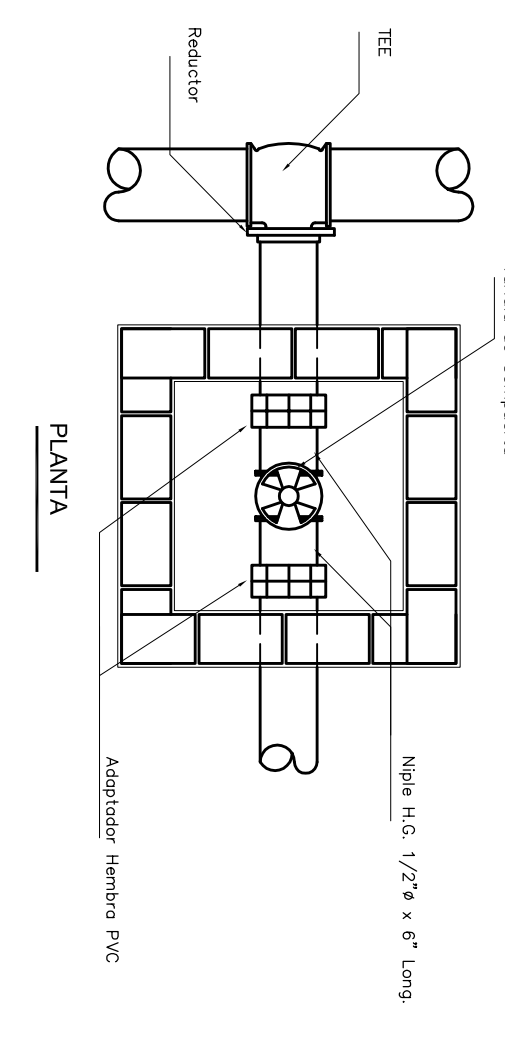




ACCESORIOS	
TUBERIA DE SALIDA	
DESCRIPCION	CANTIDAD
VALVULA COMPUERTAS/ARBA DE BRONZE D=2"	1
NIPLE HG DE 2 1/2"	2
UNION UNIVERSAL HG D=2"	1
REBOSE Y LIMPIEZA CALA	
DESCRIPCION	CANTIDAD
CODOS HG DE 3/8"	3
TAPON HG D=2"	1
TUBERIA HG SCH40 DE 3"	1
REBOSE Y LIMPIEZA DE PRESA	
TUBERIA HG SCH40 DE 4"	1
TAPON COPRA DE HG D=4"	2

ACCESORIOS	
TUBERIA DE SALIDA	
DESCRIPCION	CANTIDAD
VALVULA COMPUERTAS/ARBA DE BRONZE D=2"	1
NIPLE HG DE 2 1/2"	2
UNION UNIVERSAL HG D=2"	1
REBOSE Y LIMPIEZA CALA	
DESCRIPCION	CANTIDAD
CODOS HG DE 3/8"	3
TAPON HG D=2"	1
TUBERIA HG SCH40 DE 3"	1
REBOSE Y LIMPIEZA DE PRESA	
TUBERIA HG SCH40 DE 4"	1
TAPON COPRA DE HG D=4"	2



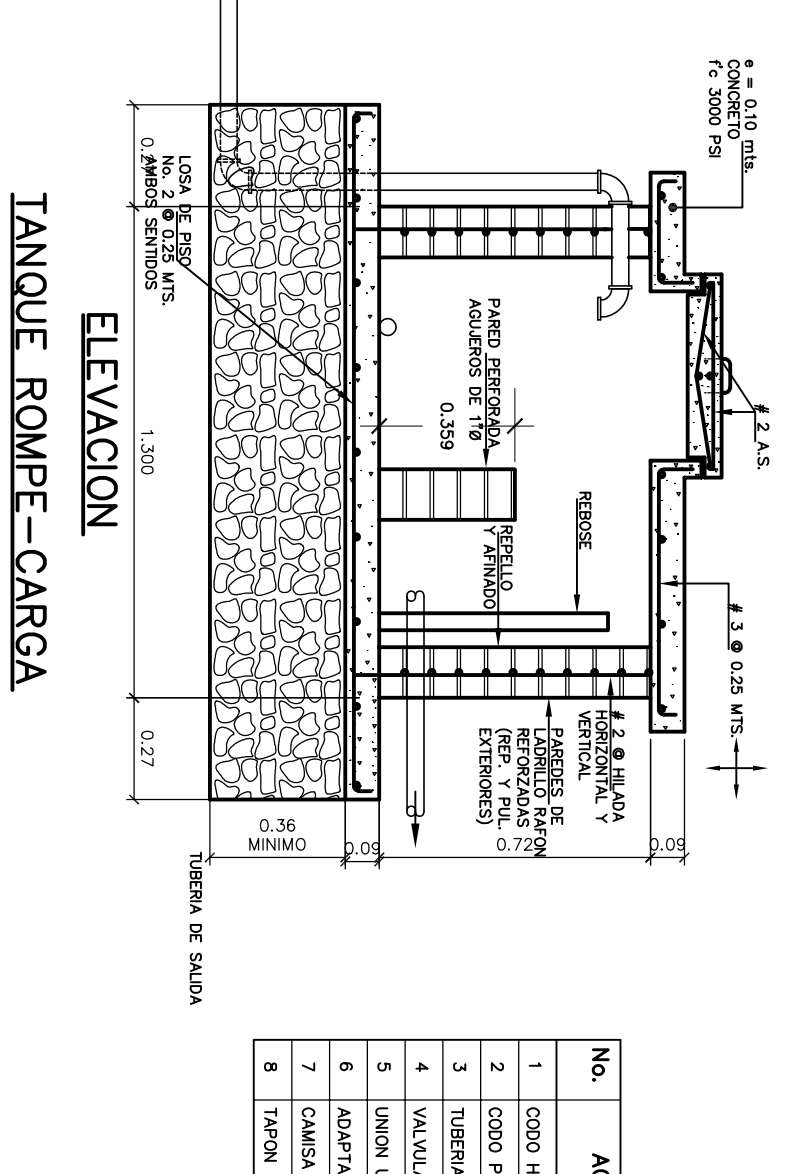
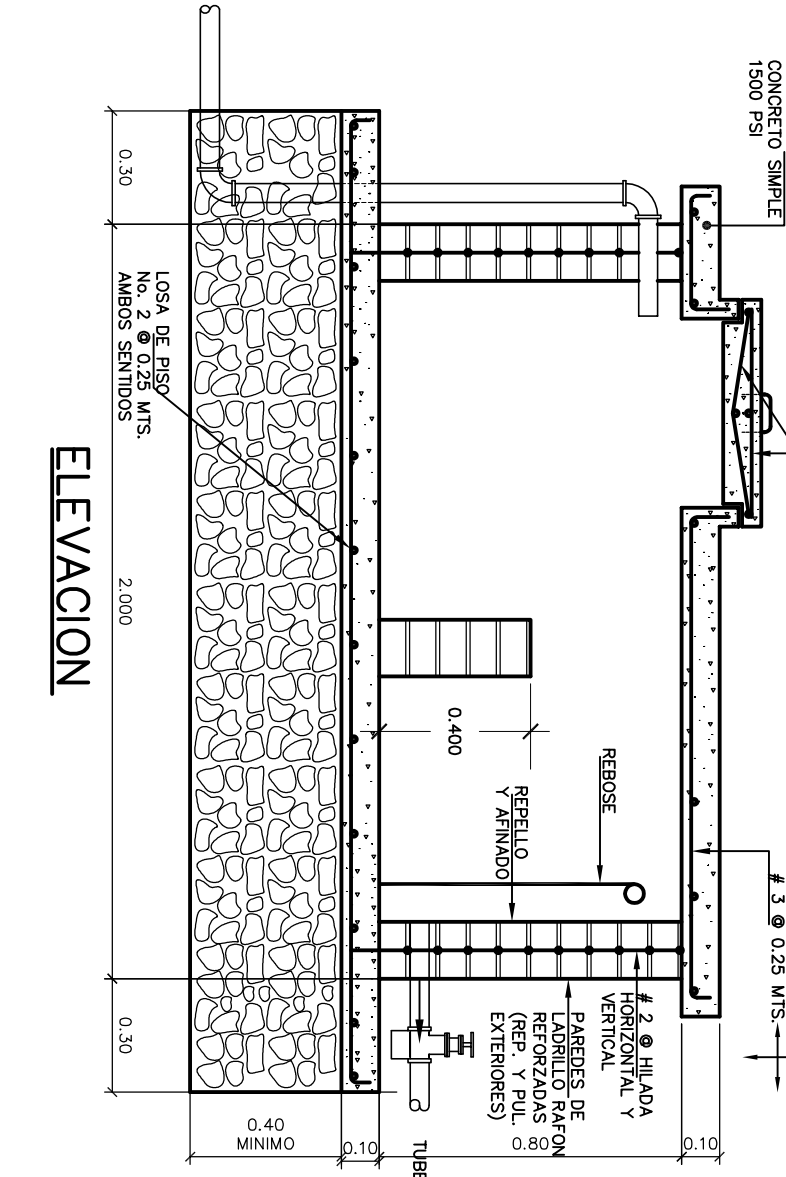
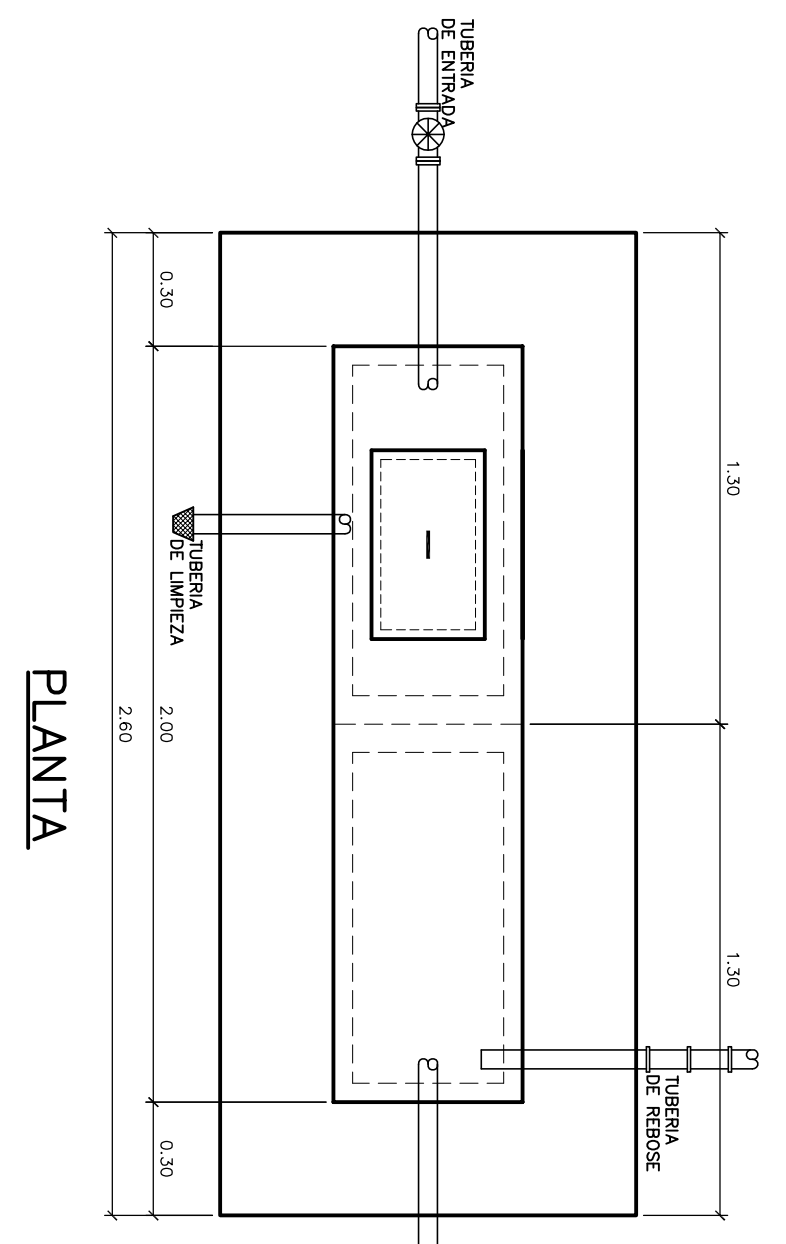
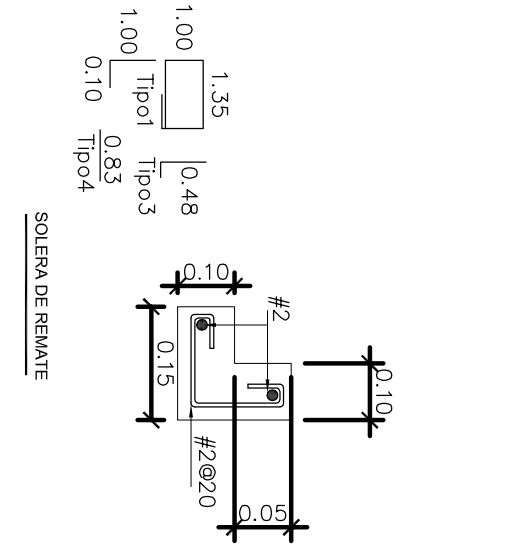


LISTA DE MATERIALES

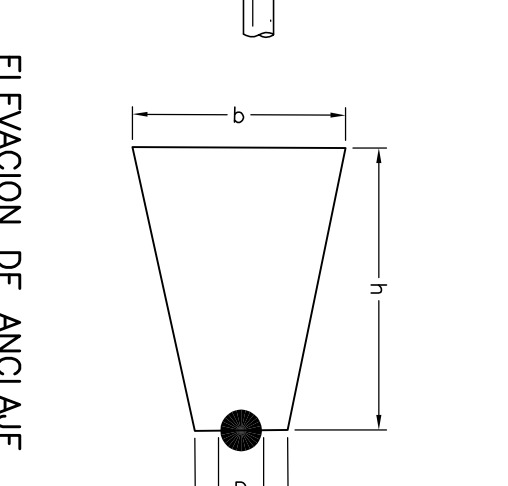
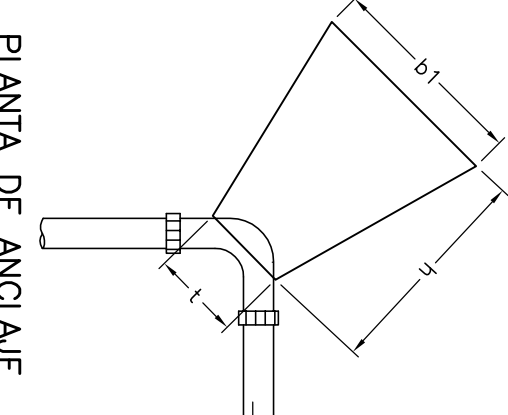
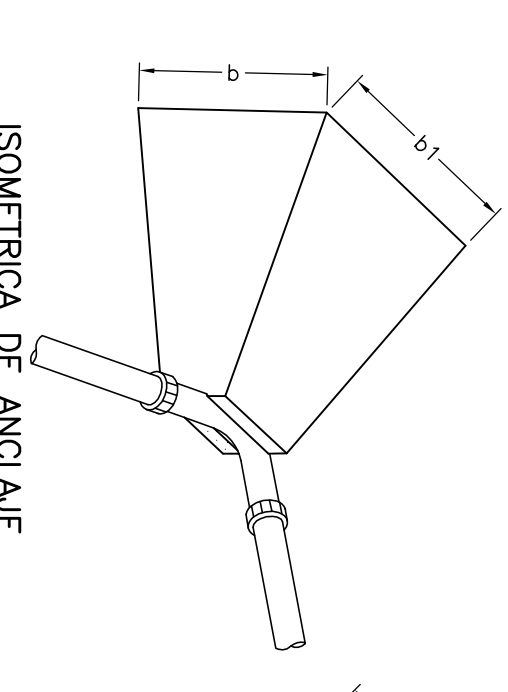
CAJA DE VALVULAS

Concepto/ Tub.	4"	6"	Und.
Válvula #2	m3	1.2	Metros
Cemento	0.75	0.4	m3
Arena	0.10	0.07	m3
Grava	0.04	0.15	m3
Piedra	0.12	0.15	m3
Acidillo	0.80	0.95	Unidades

- NOTA GENERALES:
1. Accesorios en MTS.
 2. Cálculo de volúmenes expresados en M³.
 3. Concreto f_c=200kg/cm²
 4. Acero f_y=2800kg/cm²



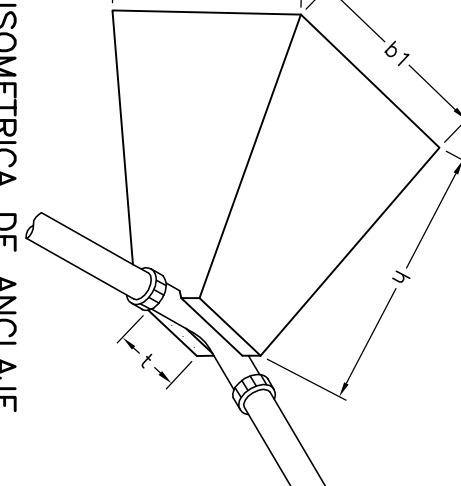
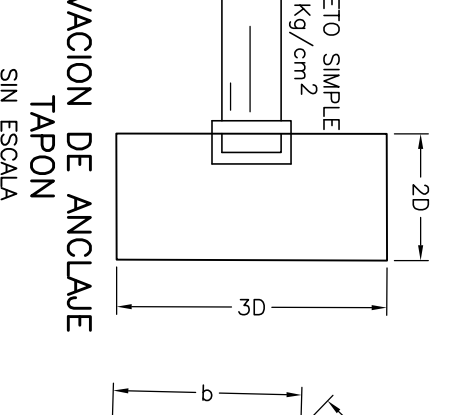
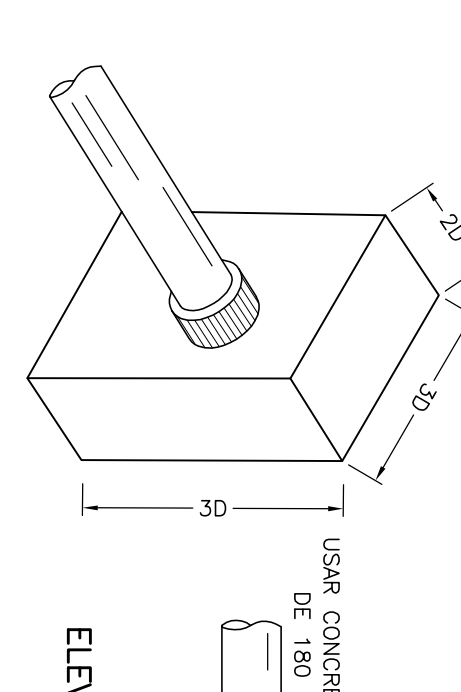
ANCLAJE PARA CODO 90°



USAR CONCRETO SIMPLE DE 180 Kg/cm²

∅	PRESES	A=b ²	b	b1	a	t	h	VOL. NETO
6"	25	0.25	0.51	0.51	0.25	0.25	0.30	0.05
3"	25	0.11	0.33	0.33	0.28	0.25	0.35	0.03
2"	25	0.11	0.33	0.33	0.25	0.25	0.35	0.03

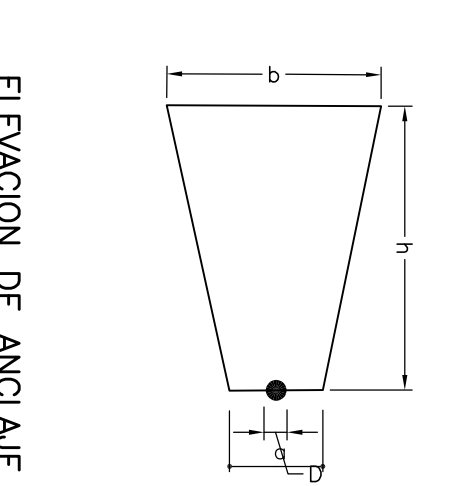
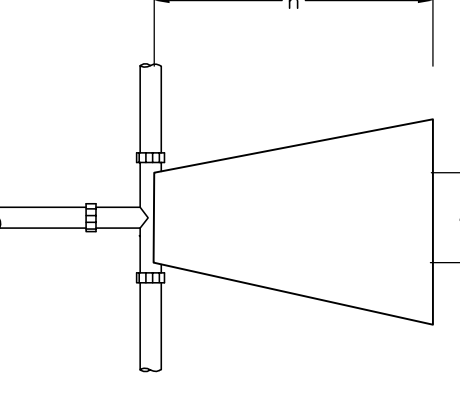
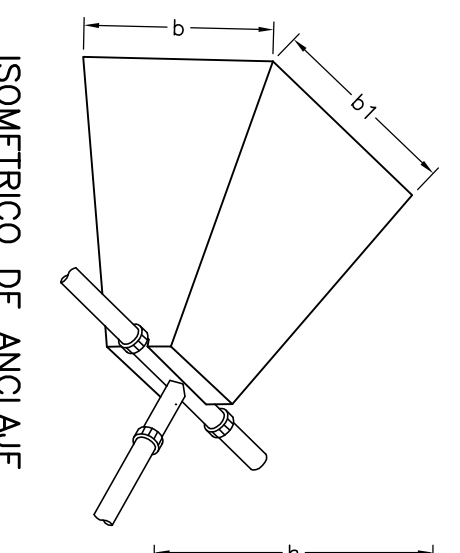
ANCLAJE PARA TAPON



USAR CONCRETO SIMPLE DE 180 Kg/cm²

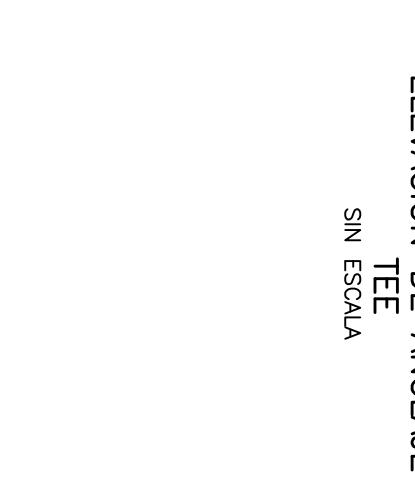
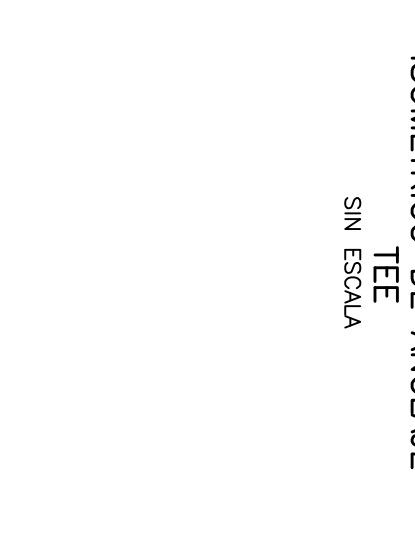
∅	PRESES	A=b ²	b	b1	a	t	h	VOL. NETO
6"	25	0.14	0.37	0.37	0.35	0.25	0.30	0.03
3"	25	0.08	0.28	0.28	0.25	0.25	0.30	0.02
2"	25	0.08	0.28	0.28	0.25	0.25	0.30	0.02

ANCLAJE PARA TEE



USAR CONCRETO SIMPLE DE 180 Kg/cm²

∅	PRESES	A=b ²	b	b1	a	t	h	VOL. NETO
6"	25	0.19	0.45	0.45	0.41	0.30	0.33	0.05
3"	25	0.08	0.29	0.29	0.30	0.20	0.30	0.02
2"	25	0.08	0.29	0.29	0.30	0.20	0.30	0.02



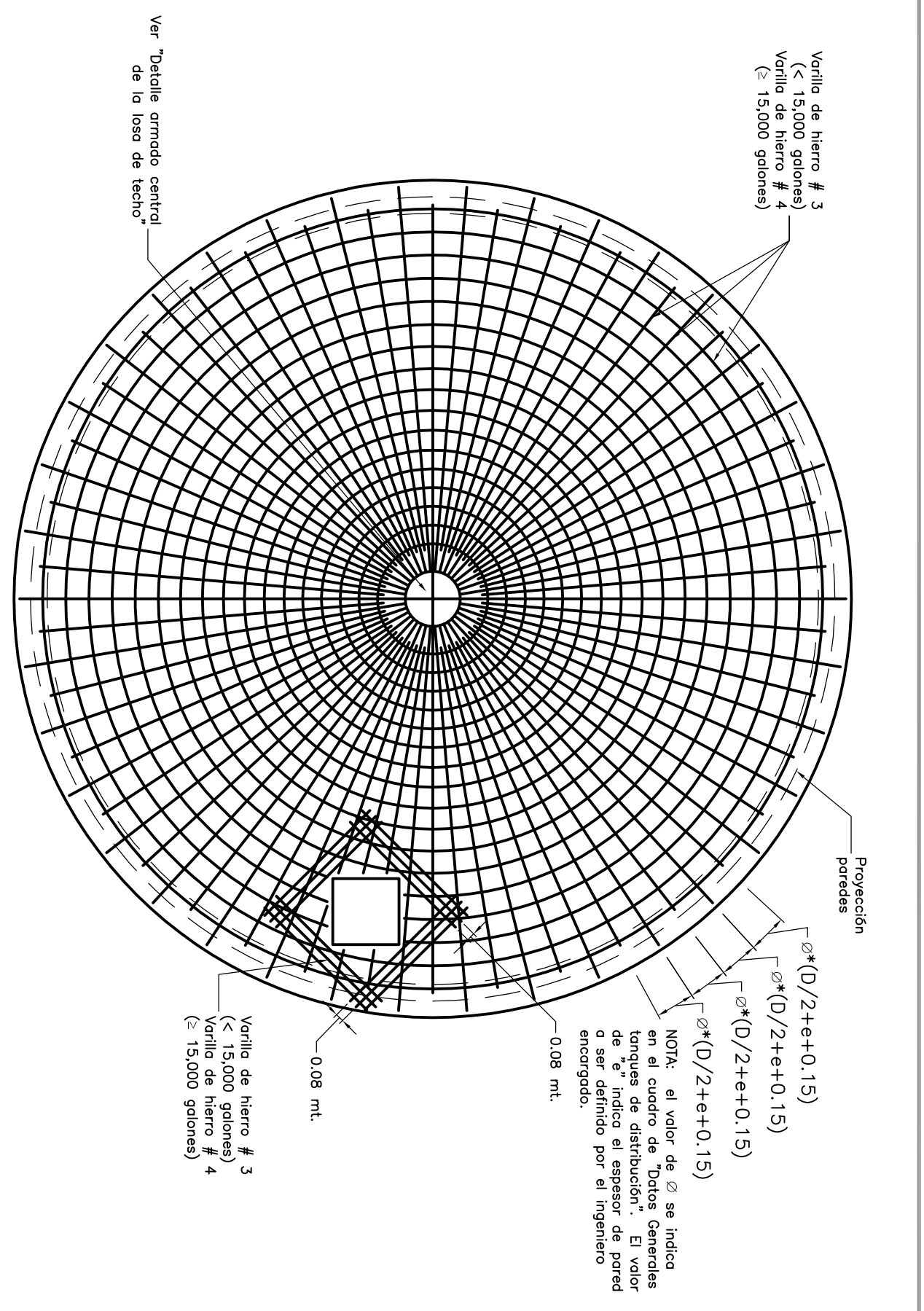
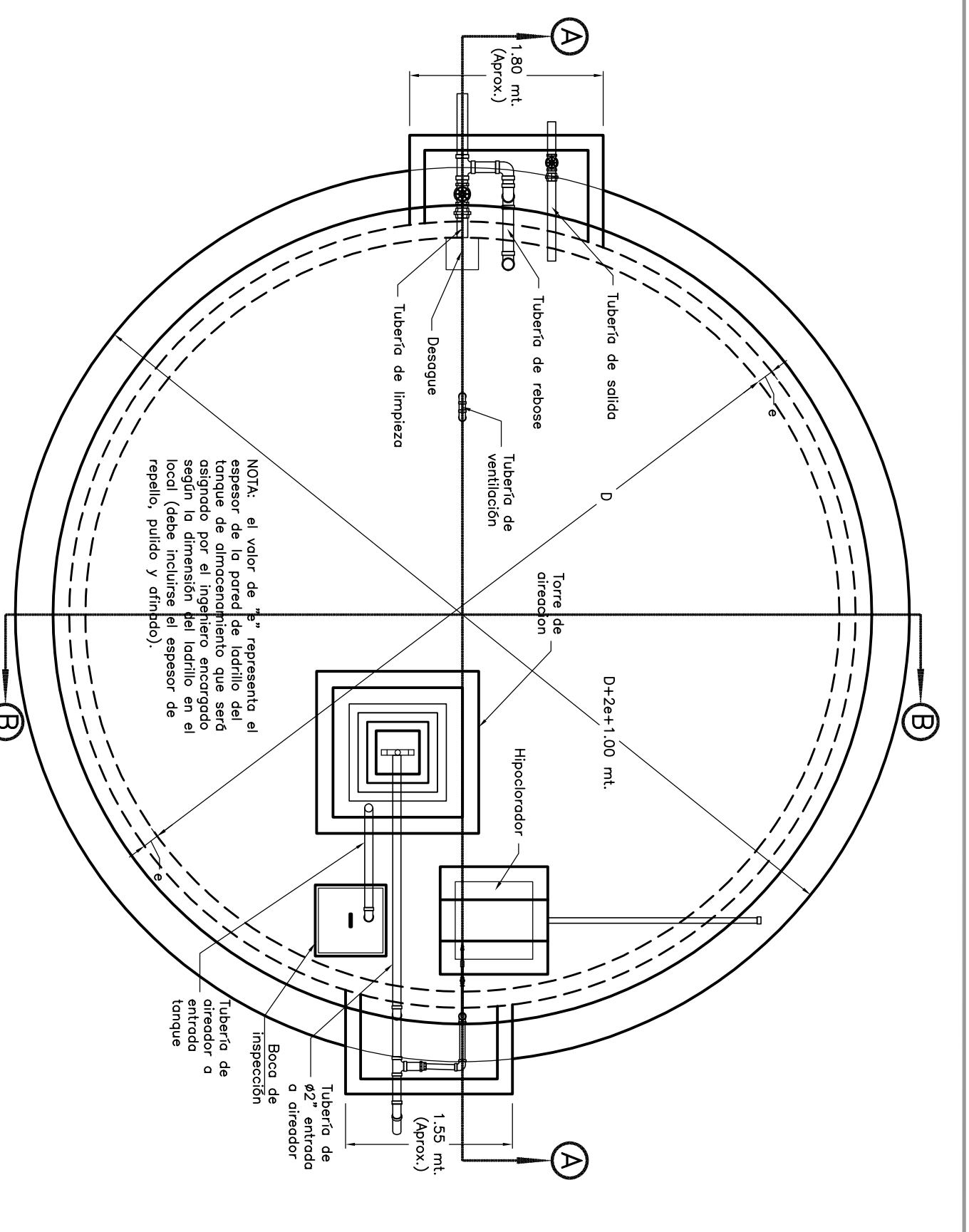
USAR CONCRETO SIMPLE DE 180 Kg/cm²

∅	PRESES	A=b ²	b	b1	a	t	h	VOL. NETO
6"	25	0.19	0.45	0.45	0.41	0.30	0.33	0.05
3"	25	0.08	0.29	0.29	0.30	0.20	0.30	0.02
2"	25	0.08	0.29	0.29	0.30	0.20	0.30	0.02

CUADRO DE ACCESORIOS

TANQUE ROMPE-CARGA Z

NO.	ACCESORIOS	ROMPE-CARGA Z		LIMPIEZA		SUB-TOTAL	TOTAL
		UND.	CANT.	UND.	CANT.		
1	CODO HG 2" x 90°	C/U	2			2	10
2	CODO PVC 2" x 90° L x R	C/U	1			1	5
3	TUBERIA HG SCH-40 2"	LANCE	1			1	5
4	VALVULA DE COMP. BR. 1 1/2"	C/U	1			1	5
5	UNION UNIVERSAL HG 1 1/2"	C/U	1			1	5
6	ADAPTADOR H PVC 1 1/2"	C/U	1			1	5
7	CAJETA HG 2"	C/U	1			1	5
8	TAPON HG 2"	C/U	1			1	5



ARMADO DE LA LOSA DE TECHO
ESCALA 1:50

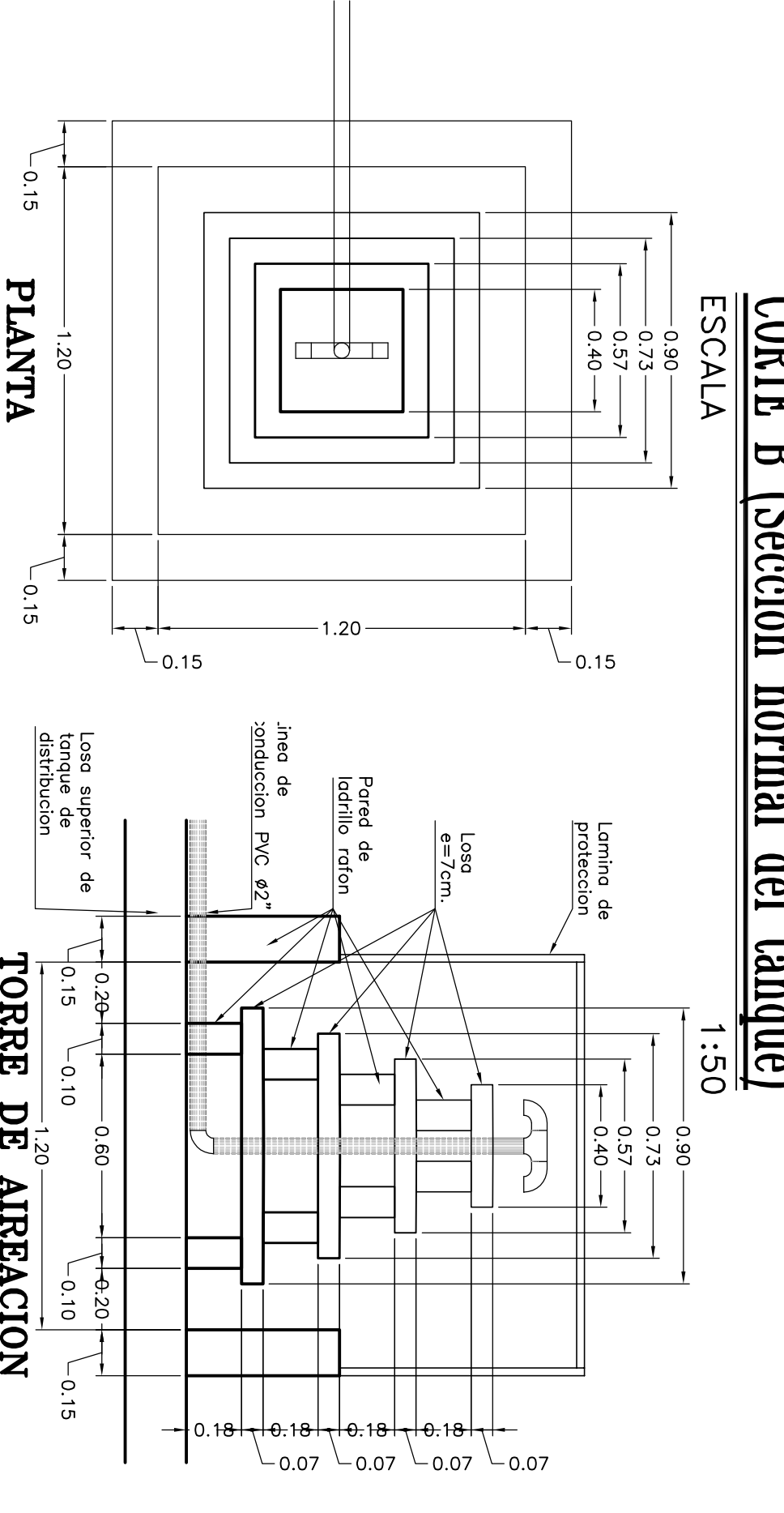
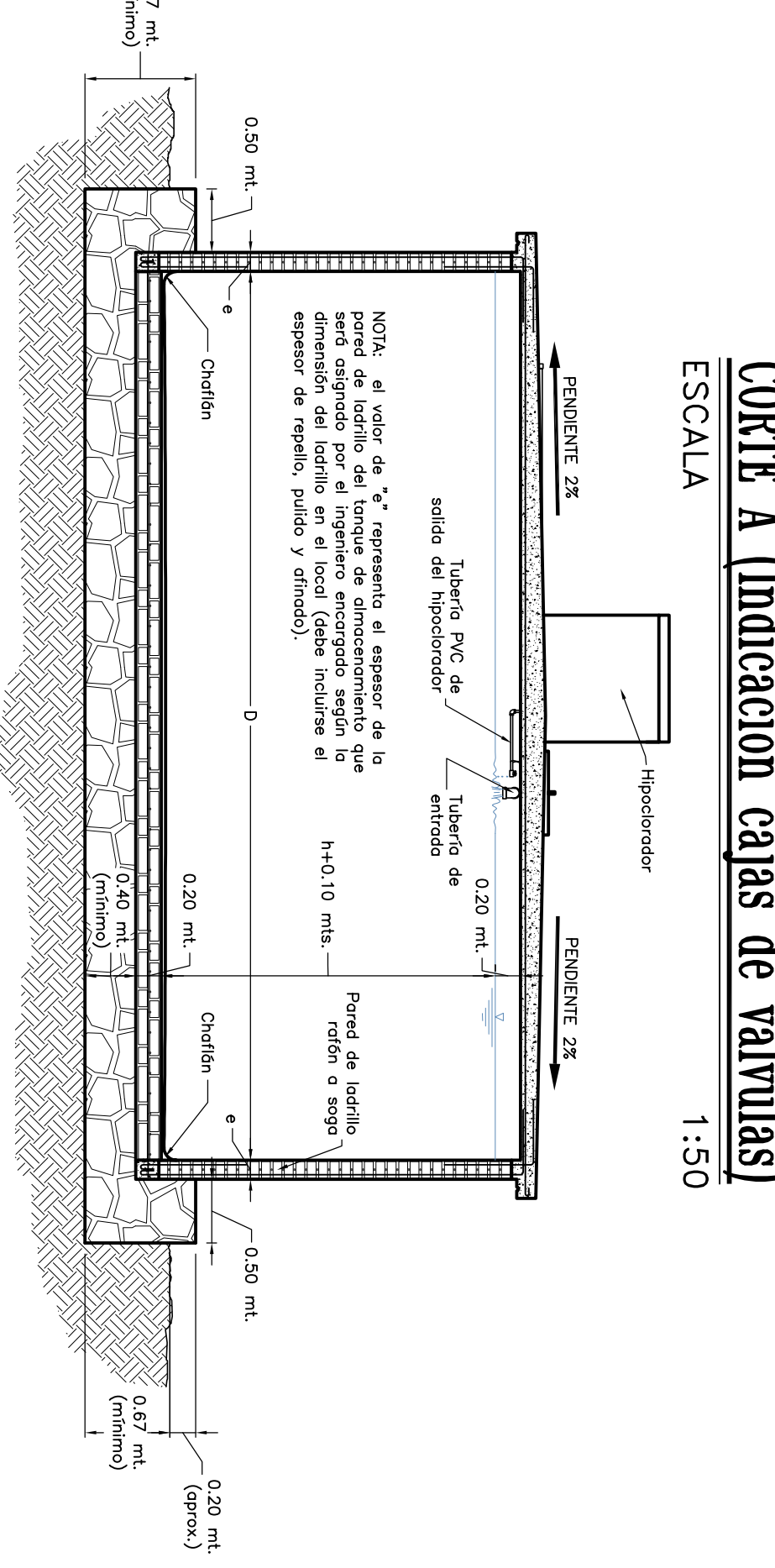
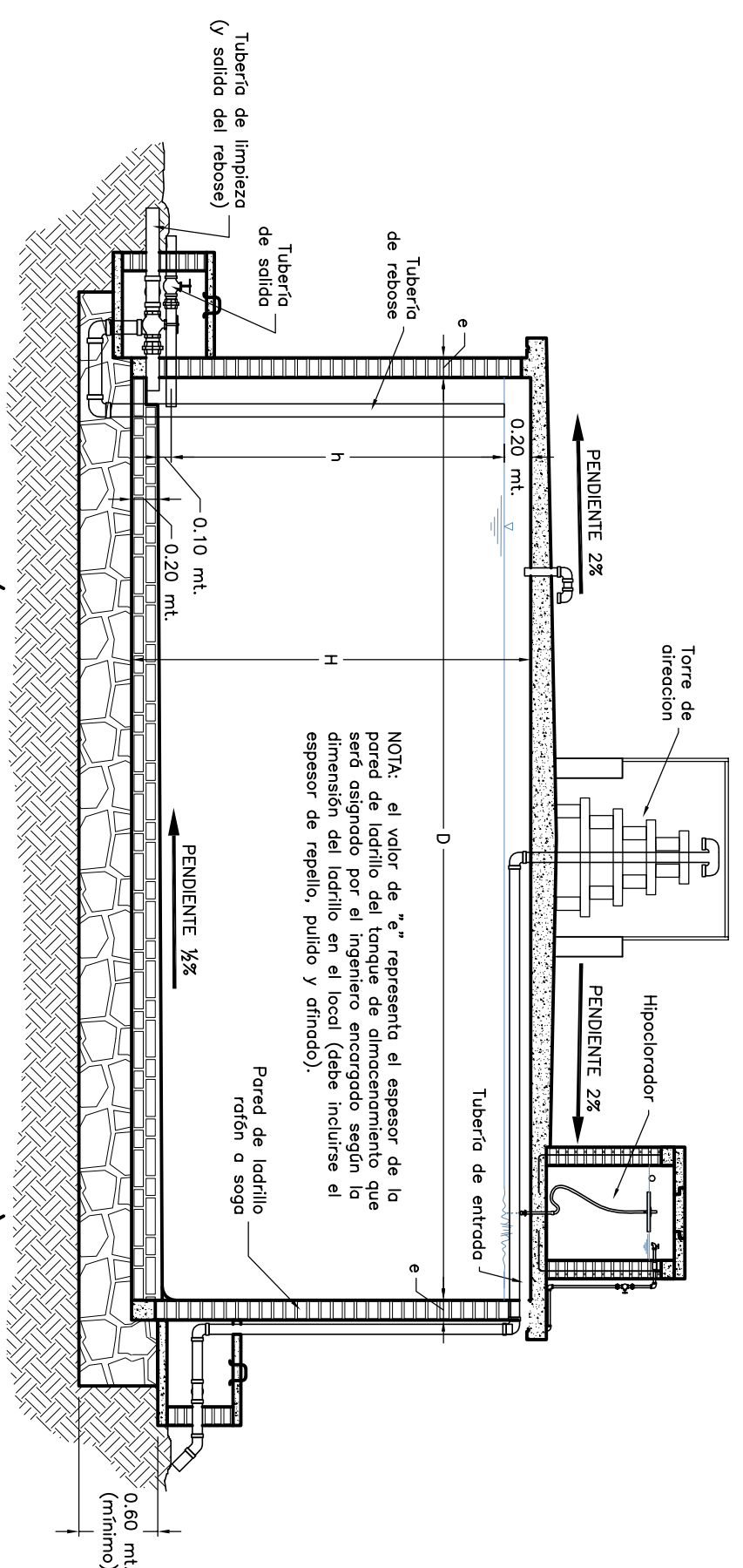
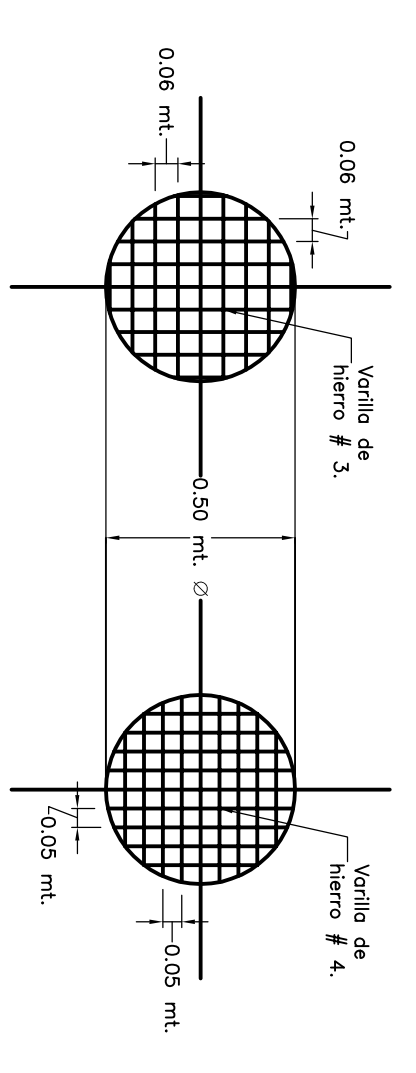
DATOS GENERALES TANQUES DE DISTRIBUCION

Capacidad del tanque	D	H	h	h ₂
5,000 galones	3.60	2.36	1.86	0.1653
10,000 galones	4.60	2.78	2.28	0.1164
15,000 galones	5.40	2.98	2.48	0.1309
20,000 galones	6.25	2.97	2.47	0.1013
25,000 galones	7.00	2.96	2.46	0.0806

CUADRO DE ESPACIAMIENTO CIRCULAR EN LA LOSA DE TECHO

Capacidad del tanque	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
5,000 galones	0.20	0.20	0.20	0.20	0.20	0.20	0.22	0.15	-	-	-	-	-	-	-	-	-
10,000 galones	0.17	0.17	0.18	0.18	0.19	0.19	0.20	0.15	-	-	-	-	-	-	-	-	-
15,000 galones	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.15	-	-	-	-	-	-	-	-	-
20,000 galones	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.15	0.15	-	-	-	-	-	-	-	-
25,000 galones	0.23	0.17	0.17	0.17	0.18	0.18	0.18	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23

DETALLE ARMADO CENTRAL DE LA LOSA DE TECHO
ESCALA 1:30



TANQUE DE DISTRIBUCION

ACCESORIOS SALIDA DE TANQUE	DESCRIPCION	UNIDAD	CANTIDAD
VÁLVULA DE COMERTIA BRIDA DE BRONCE 2"		UNIDAD	1
NIPLE HG 2" X 2" DE LARGO		UNIDAD	2
NIPLE HG DE 2" X 2" DE LARGO		UNIDAD	2
CODO HG 2"		UNIDAD	2
PASCON HG 2"		UNIDAD	2
UNION UNIVERSAL HG 2"		UNIDAD	1

ACCESORIOS ENTRADA AIRADOR Y TANQUE

DESCRIPCION	UNIDAD	CANTIDAD
CODO 2" X 90°	UNIDAD	3
TUBERIA HG 2"	M	6
TEE 2"	UNIDAD	1
UNION UNIVERSAL HG 2"	UNIDAD	1

HIPOCROMADOR

DESCRIPCION	UNIDAD	CANTIDAD
NIPLE 2" X 1/2"	UNIDAD	1
NIPLE DE 1/2" X 3/8" MEDIO DE LARGO	UNIDAD	1
CODO HG 1/2" X 3/8"	UNIDAD	3
TUBO DE 1/2" X 1 METRO	M	1
ADAPTADOR PVC 1/2" HEMBRA	UNIDAD	1
VÁLVULA DE VÁLVULA 1/2" PVC	UNIDAD	1
FLOTADOR DE PVC	UNIDAD	1

ACCESORIOS REBOSE

DESCRIPCION	UNIDAD	CANTIDAD
TUBERIA PVC 2" X 1/2"	M	4
CODO PVC 2" X 1/2"	UNIDAD	1
TUBERIA PVC 2" X 1/2"	LANCE	3

LIMPIEZA

DESCRIPCION	LANCE	UNIDAD
TUBERIA HG 2"	LANCE	1
TAPON COPAL HG 2"	UNIDAD	1

ESPECIFICACIONES

- 1) Concreto de 2,500 psi ; dosificación 1: 2:3 con tamaño máximo de $3/4"$; concreto de 3,000 psi ; dosificación 1:2:2 con tamaño máximo de $3/4"$; concreto de 4,000 psi ; dosificación 1:1:1/2 con tamaño máximo de $3/4"$.
- 2) Varilla de hierro para refuerzo del concreto, paredes y piso: grado 40.
- 3) Mampostería: mortero 1:4, piedra no menor de 12".
- 4) Las tapaderas en general se fundirán con concreto de 4,000 psi ; el armado es varilla # 2 @ 10 cms en ambos sentidos.
- 5) El mortero de repello es de proporción 1:4, al igual que el pulido.
- 6) La losa de concreto simple interior de las cajas de válvulas es de 2,500 psi , con un espesor de 7 cms.

DETALLE ARMADO DE PARED Y CANS DE VÁLVULAS
ESCALA 1:25

