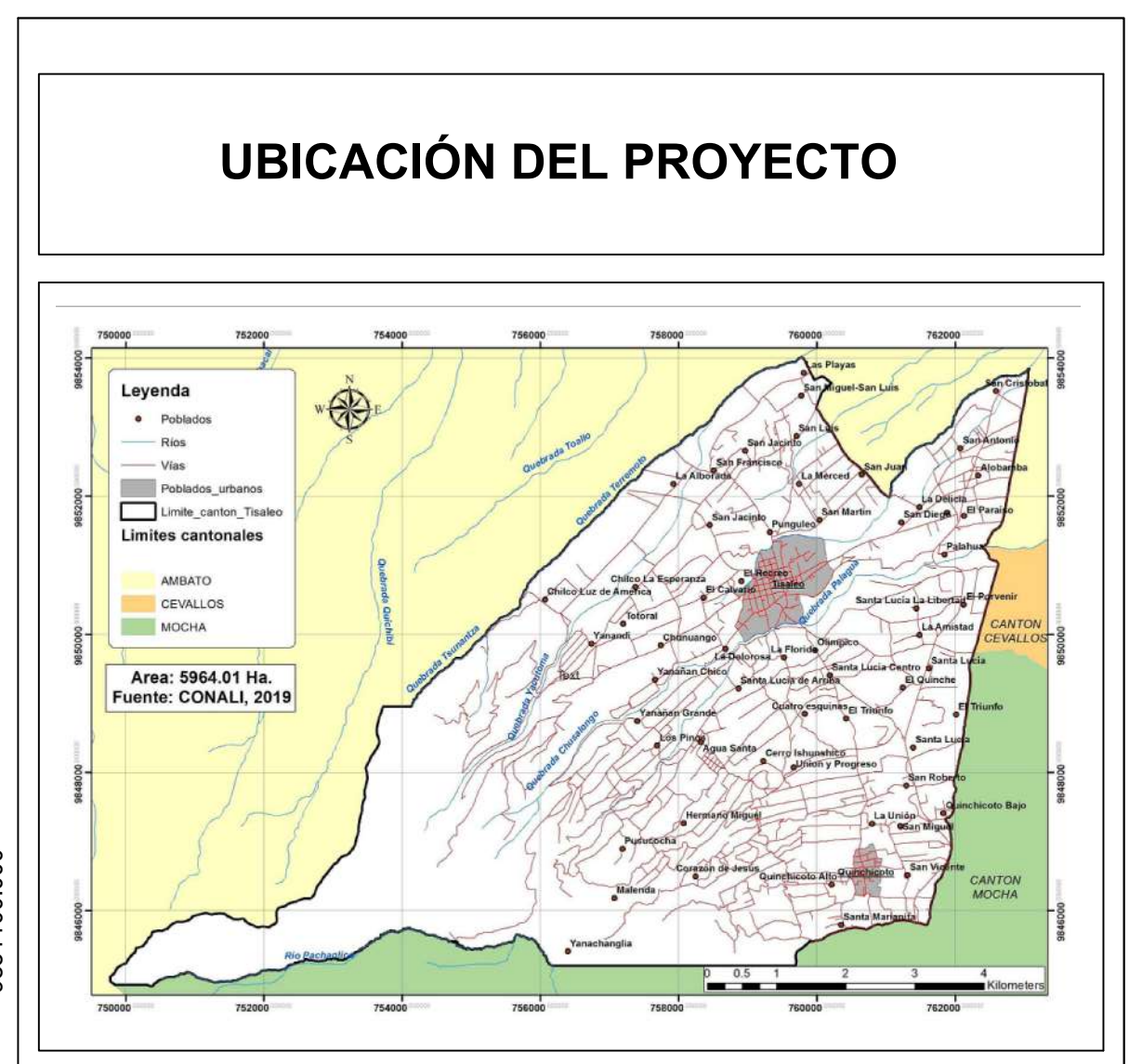
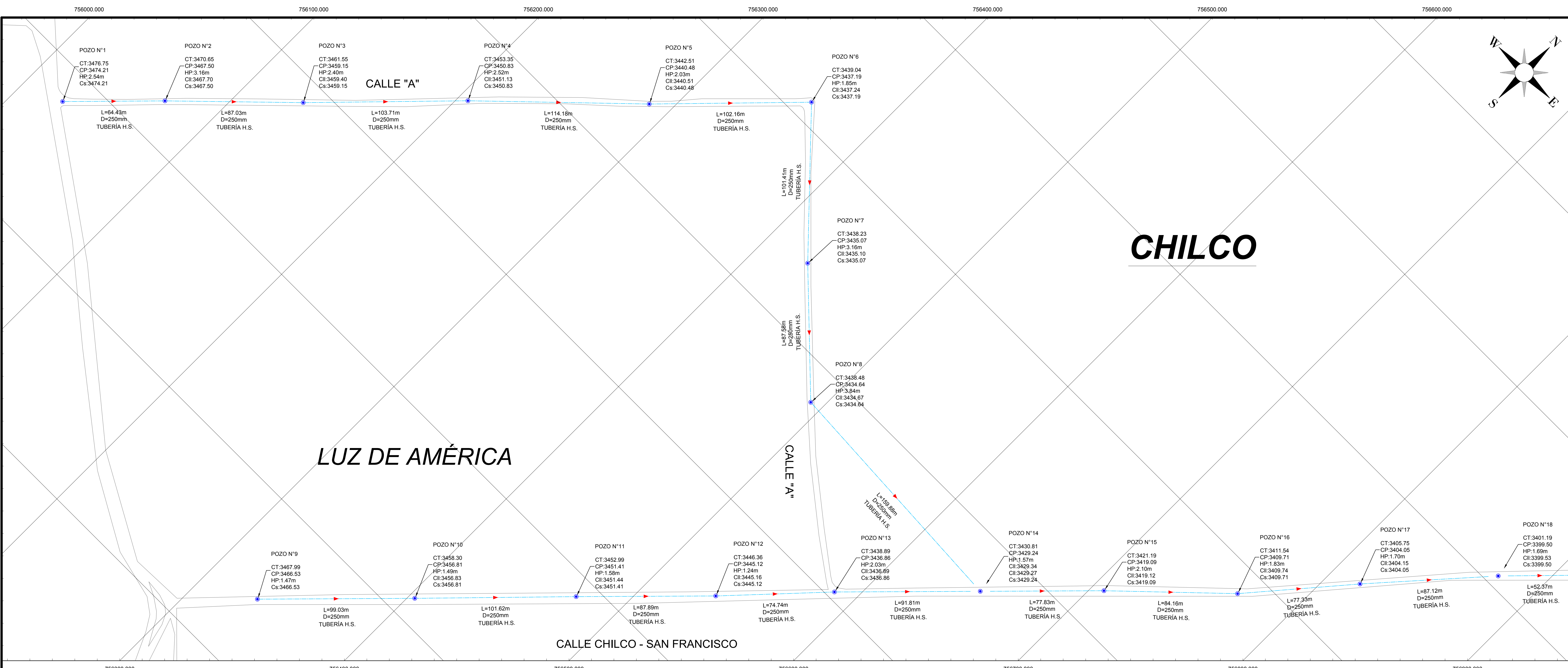


***RED DE ALCANTARILLADO  
SANITARIO CHILCO - SAN  
FRANCISCO - SAN LUIS***





### DATOS GEOGRÁFICOS

**DATUM:** WGS84 ZONA 17S

**COORDENADAS UTM:**  
759353.24 m E  
9850780.17 m S

**ALTURA REFERENCIAL:**  
3249 m

### SIMBOLOGÍA

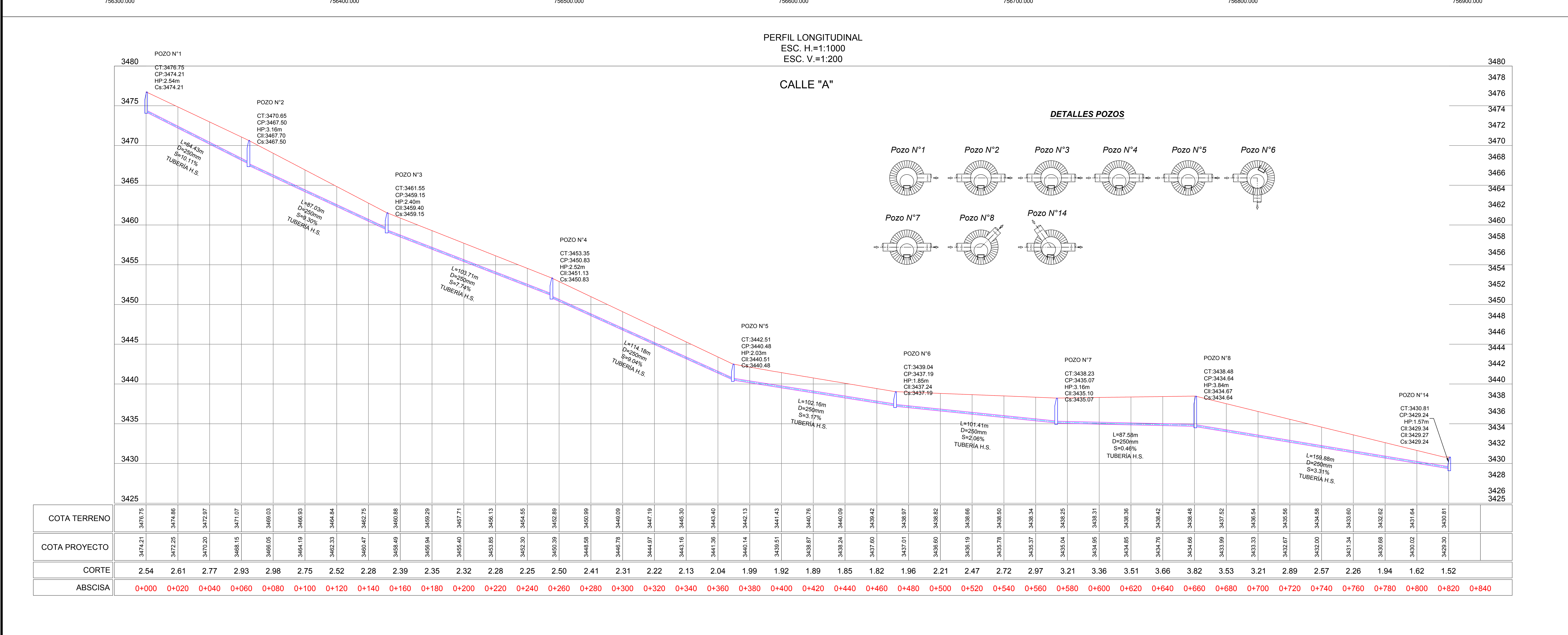
TUBERÍA H.S. D = 250mm

POZO DE REVISIÓN

PERFIL DEL TERRENO

CALLES / VÍAS

L LONGITUD DEL TRAMO  
D / Ø DIÁMETRO DE TUBERÍA  
S GRADIENTE HIDRÁULICA  
CT COTA TERRENO  
CP COTA PROYECTO  
CII COTA DE LEGADA  
Cs COTA DE SALIDA  
HP ALTURA DE POZO



### RED DE ALcantarillado CHILCO - SAN FRANCISCO - SAN LUIS

POZO N°	ESTE (m)	NORTE (m)	C. TERRENO	C. LEGADA	C. SALIDA
1	756025.67	9850479.48	3476.75	-	3474.21
2	756070.91	9850225.34	3470.68	3467.70	3467.50
3	756133.24	9850586.09	3461.55	3459.40	3459.15
4	756205.72	9850080.26	3453.35	3451.13	3450.83
5	756287.90	9850739.53	3442.51	3440.51	3440.48
6	756358.32	9850812.57	3438.04	3437.24	3437.19
7	756429.28	9850738.18	3438.23	3435.10	3435.07
8	756492.57	9850678.63	3438.48	3434.67	3434.64
9	756333.84	9850344.67	3467.99	-	3466.52
10	756403.58	9850415.07	3458.30	3456.83	3456.81
11	756474.69	9850487.68	3452.99	3451.44	3451.41
12	756536.54	9850550.12	3446.36	3445.16	3445.12
13	756587.58	9850604.72	3438.89	3436.89	3436.86
14	756652.22	9850669.93	3430.81	3429.27	3429.24
15	756706.98	9850725.24	3421.19	3419.12	3419.09
16	756767.78	9850783.42	3411.54	3409.74	3409.71
17	756817.97	9850842.25	3405.75	3404.15	3404.05
18	756871.91	9850907.30	3401.19	3399.53	3399.50
19	756912.59	9850944.68	3394.17	3392.74	3391.84
20	756982.91	9851016.77	3386.47	3384.25	3384.22
21	757045.17	9851080.40	3380.03	3378.43	3378.40
22	757114.84	9851150.95	3371.68	3369.68	3369.65
23	757157.11	9851195.36	3367.16	3365.31	3365.28
24	757187.03	9851226.00	3363.60	3361.72	3361.70
25	757255.80	9851294.46	3354.35	3352.31	3352.28
26	757319.91	9851357.80	3348.40	3346.90	3346.87
27	757391.08	9851399.07	3344.48	3341.58	3341.55
28	757442.91	9851517.42	3327.13	3325.30	3325.27
29	757503.48	9851595.93	3317.29	3315.34	3315.31
30	757563.07	9851674.97	3306.68	3304.53	3304.50
31	757623.57	9851766.69	3297.42	3295.44	3295.40
32	757699.42	9851836.71	3290.73	3288.58	3288.55
33	757736.68	9851902.88	3285.21	3282.98	3282.95
34	757778.38	9851968.77	3280.27	3278.18	3278.15
35	757814.97	9852016.62	3275.50	3273.61	3273.58
36	757884.92	9852078.96	3268.12	3267.28	3267.25
37	757956.87	9852146.50	3265.55	3263.57	3263.53
38	758001.15	9852188.81	3263.09	3261.12	3261.09
39	758056.45	9852262.76	3255.72	3253.82	3253.79
40	758116.91	9852339.43	3248.96	3247.02	3246.99
41	758161.78	9852389.88	3242.85	3241.30	3241.27
42	758203.13	9852435.75	3238.00	3236.11	3236.08

### G.A.D. MUNICIPAL DEL CANTON TISALEO

"CASTRO DE LOS SISTEMAS DE ALcantarillado A TRAVÉS DE LA GEOREFERENCIACIÓN Y DIGITALIZACIÓN PARA MEJORAR LA CALIDAD DE INFORMACIÓN SANITARIA DE LA PARROQUIA URBANA TISALEO Y CASERIOS SAN LUIS, SAN FRANCISCO, SAN JUAN, SAN DIEGO, ALDAMA, SANTA LUCÍA LIBERTAD, SANTA LUCÍA-CENTRO, SANTA LUCÍA ARRIBA, EL CALVARIO DEL CANTÓN TISALEO, PROVINCIA DE TUNGURAHUA"

CONTENIDO: RED DE ALcantarillado SANITARIO CHILCO - SAN FRANCISCO - SAN LUIS

PROYECTO: TISALEO - CHILCO LA ESPERANZA

PROVINCIA: TUNGURAHUA CANTÓN: TISALEO SECTOR: CHILCO LA ESPERANZA

FECHA: AGOSTO, 2022

ELABORADO POR: Egle Tarma Bonita Testa

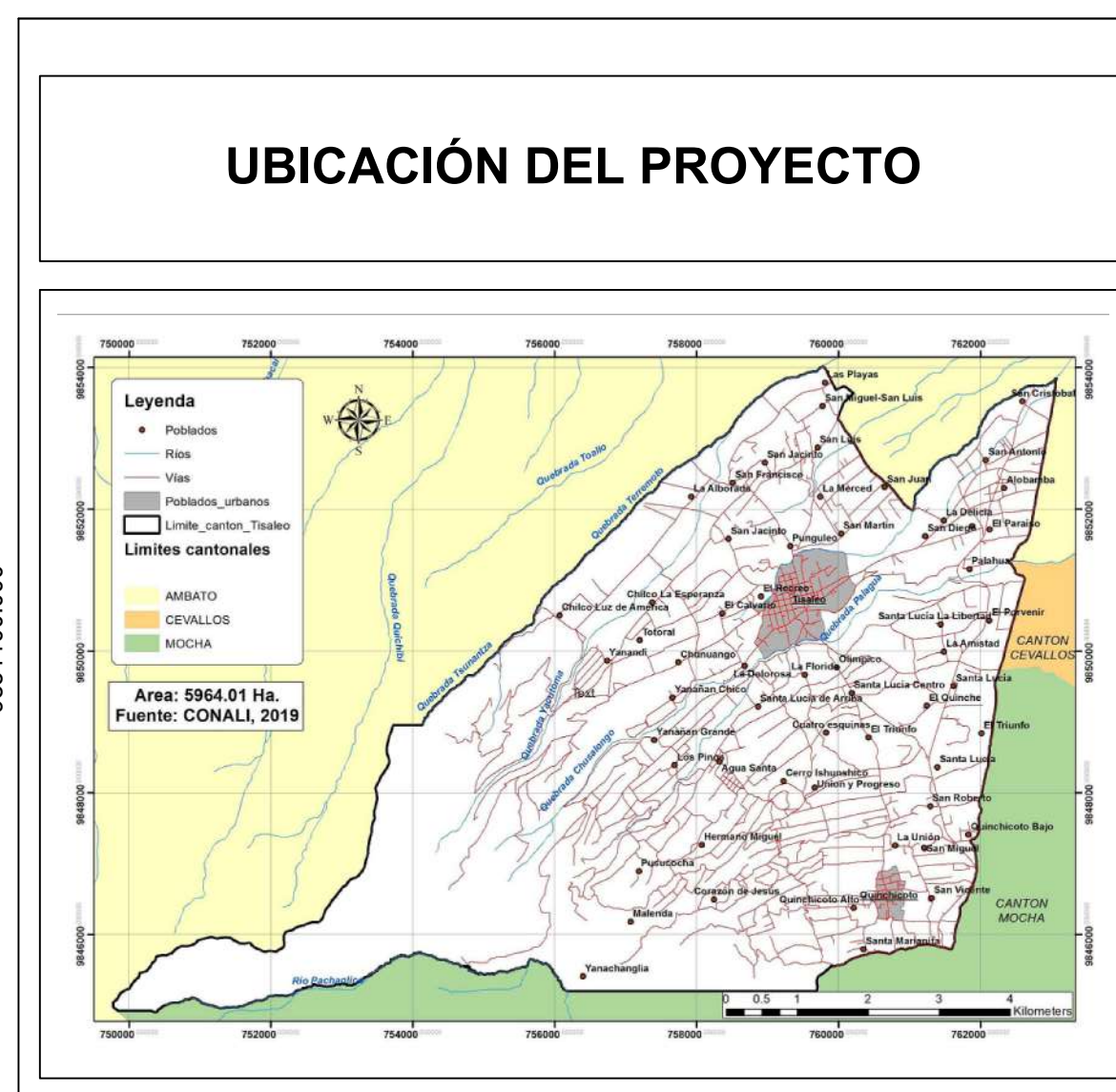
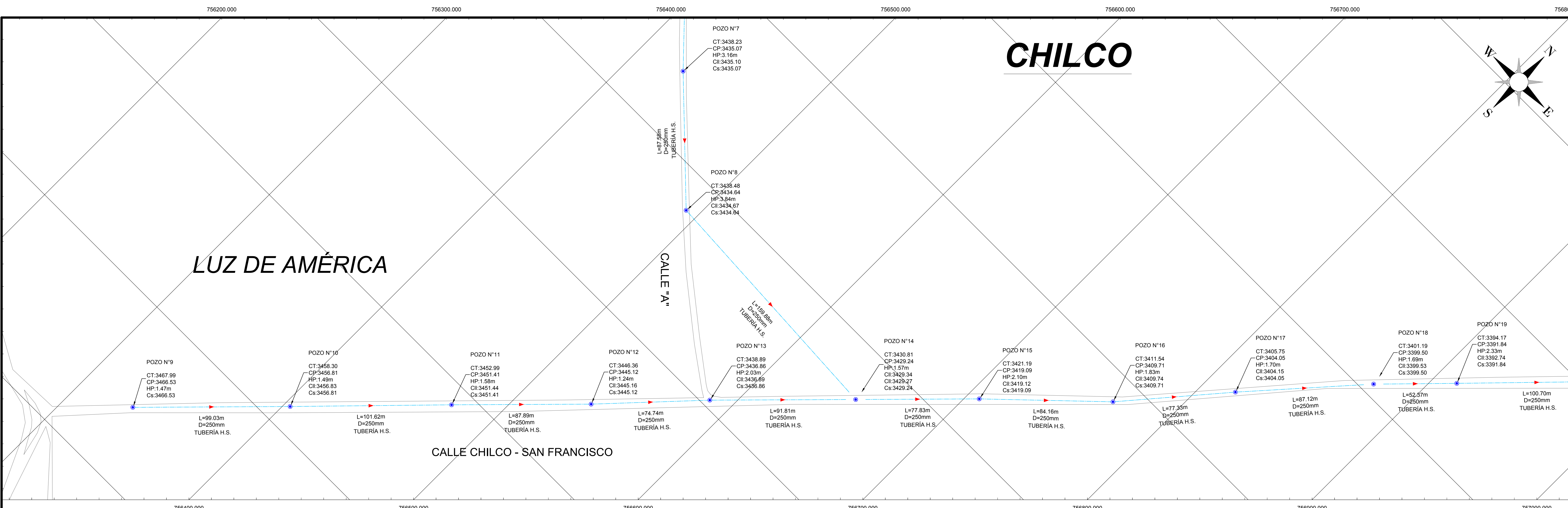
REVISADO POR: Ing. Galo Núñez Tutor

APROBADO POR: Ing. Galo Núñez Tutor

LÁMINA: LÁMINA - 01

TOTAL LÁMINAS: 24





### DATOS GEOGRÁFICOS

**DATUM:** WGS84 ZONA 17S

**COORDENADAS UTM:**  
759353.24 m E  
9850780.17 m S

**ALTURA REFERENCIAL:**  
3249 m

### SIMBOLOGÍA

TUBERÍA H.S. D = 250mm

POZO DE REVISIÓN

PERFIL DEL TERRENO

CALLES / VÍAS

L LONGITUD DEL TRAMO  
D / Ø DIÁMETRO DE TUBERÍA  
S GRADIENTE HIDRÁULICA  
CT COTA TERRENO  
CP COTA PROYECTO  
CII COTA DE LLEGADA  
Cs COTA DE SALIDA  
HP ALTURA DE POZO

#### RED DE ALCANTARILLADO CHILCO - SAN FRANCISCO - SAN LUIS

POZO N°	ESTE (m)	NORTE (m)	C. TERRENO	C. LLEGADA	C. SALIDA
1	756025.67	9850479.48	3476.75	-	3474.21
2	756070.91	9850525.34	3470.68	3467.70	3467.50
3	756133.24	9850586.09	3461.55	3459.40	3459.15
4	756205.72	9850686.26	3453.35	3451.13	3450.83
5	756287.90	9850739.53	3442.51	3440.51	3440.48
6	756359.32	9850812.57	3439.04	3437.24	3437.19
7	756429.29	9850736.18	3438.23	3435.10	3435.07
8	756492.57	9850678.63	3438.48	3434.67	3434.64

#### CALLE CHILCO - SAN FRANCISCO

POZO N°	ESTE (m)	NORTE (m)	C. TERRENO	C. LLEGADA	C. SALIDA
9	756333.94	9850344.67	3467.99	-	3466.52
10	756403.59	9850415.07	3459.30	3456.83	3456.81
11	756474.69	9850487.68	3452.99	3451.44	3451.41
12	756536.54	9850550.12	3446.36	3445.16	3445.12
13	756597.58	9850604.72	3438.89	3436.89	3436.86
14	756652.22	9850669.93	3430.81	3429.27	3429.24
15	756708.98	9850725.24	3421.19	3419.12	3419.09
16	756767.78	9850783.42	3411.54	3409.74	3409.71
17	756817.97	9850842.25	3405.75	3404.15	3404.05
18	756870.91	9850907.30	3401.19	3399.53	3399.50
19	756912.59	9850944.68	3394.17	3392.74	3391.84
20	756982.91	9851016.77	3386.47	3384.25	3384.22
21	757045.17	9851080.40	3380.03	3378.43	3378.40
22	757114.84	9851150.95	3371.68	3369.68	3369.65
23	757157.11	9851195.36	3367.16	3365.31	3365.28
24	757187.03	9851226.00	3363.60	3361.72	3361.70
25	757255.80	9851294.46	3354.35	3352.31	3352.28
26	757319.91	9851357.80	3346.40	3346.80	3346.87
27	757351.09	9851399.07	3343.46	3341.56	3341.53
28	757408.26	9851470.64	3333.78	3331.39	3331.36
29	757442.91	9851517.42	3327.13	3325.30	3325.27
30	757503.48	9851595.93	3317.29	3315.34	3315.31
31	757563.07	9851674.97	3306.68	3304.53	3304.50
32	757599.23	9851722.70	3302.46	3300.11	3300.08
33	757634.57	9851766.69	3297.42	3295.44	3295.40
34	757699.42	9851836.71	3290.73	3288.58	3288.55
35	757736.68	9851902.88	3285.21	3282.68	3282.65
36	757778.38	9851969.77	3280.27	3278.18	3278.15
37	757814.97	9852016.62	3275.50	3273.61	3273.58
38	757884.92	9852078.96	3268.12	3267.28	3267.25
39	757959.67	9852148.50	3265.55	3263.57	3263.53
40	758001.15	9852188.61	3263.09	3261.12	3261.09
41	758056.45	9852262.76	3255.72	3253.82	3253.79
42	758116.91	9852339.43	3248.96	3247.02	3246.99
43	758161.78	9852389.88	3242.85	3241.30	3241.27
44	758203.13	9852435.75	3238.00	3236.11	3236.08

### G.A.D. MUNICIPAL DEL CANTÓN TISALEO

"CATASTRO DE LOS SISTEMAS DE ALCANTARILLADO A TRAVÉS DE LA GEOINFORMACIÓN Y DIGITALIZACIÓN PARA MEJORAR LA CALIDAD DE INFORMACIÓN SANITARIA DE LA PARROQUIA URBANA TISALEO Y CASERIOS SAN LUIS, SAN FRANCISCO, SAN JUAN, SAN DIEGO, ALDABAMA, SANTA LUCÍA-LA LIBERTAD, SANTA LUCÍA-CENTRO, SANTA LUCÍA ARRIBA, EL CALVARIO DEL CANTÓN TISALEO, PROVINCIA DE TUNGURAHUA"

CONTIENE: RED DE ALCANTARILLADO SANITARIO CHILCO - SAN FRANCISCO - SAN LUIS

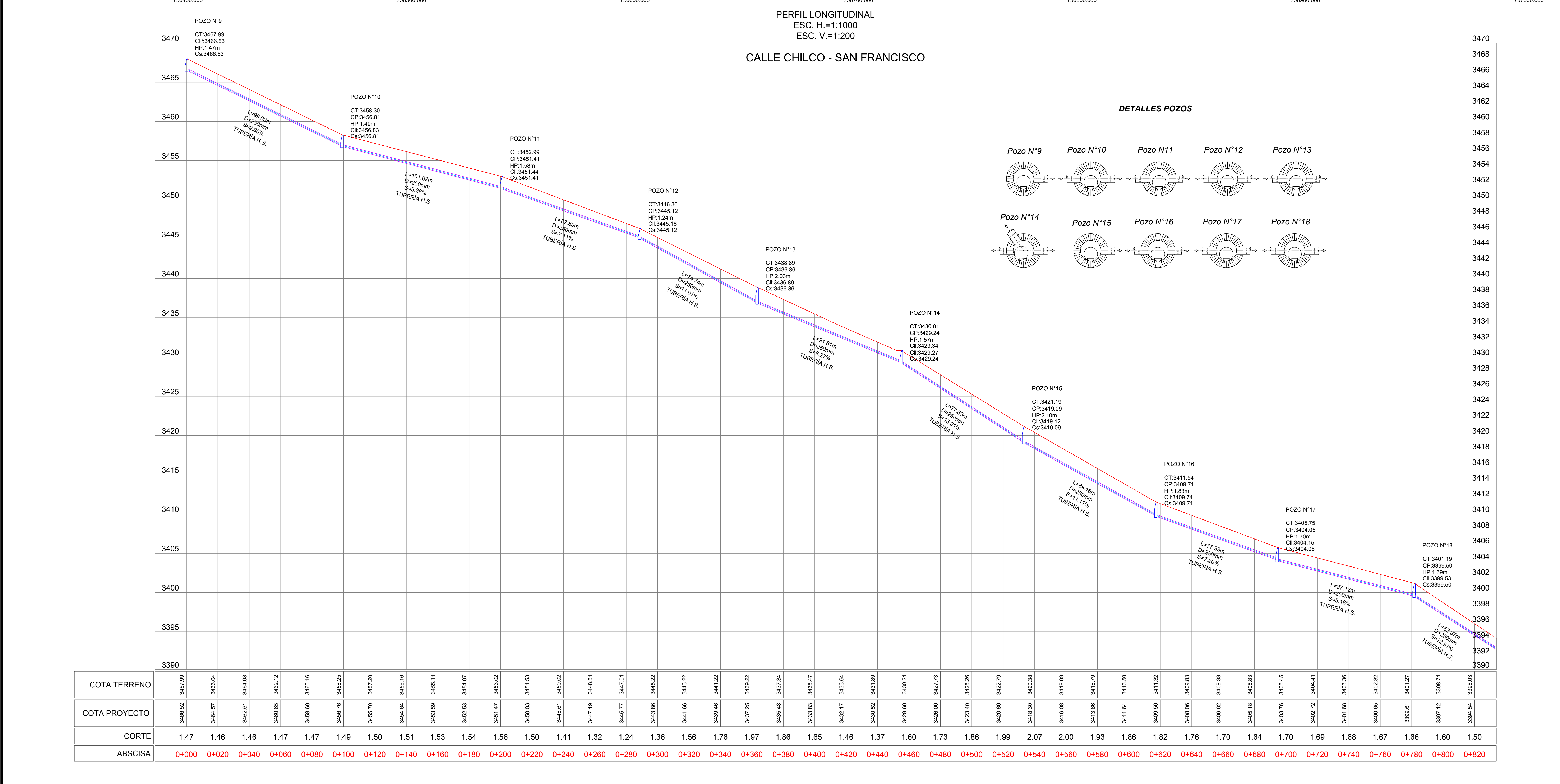
ELABORADO POR: Egda Tamara Bonita Testa

REVISADO POR: Ing. Gato Nuñez Tutor

APROBADO POR: Ing. Gato Nuñez Tutor

LÁMINA: LÁMINA 02

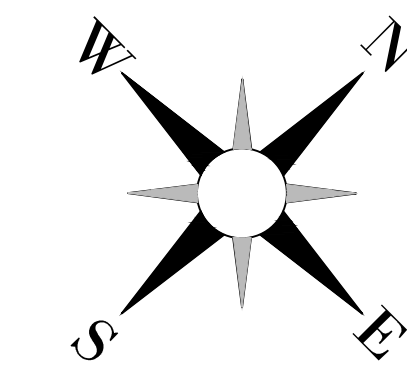
TOTAL LÁMINAS: 24



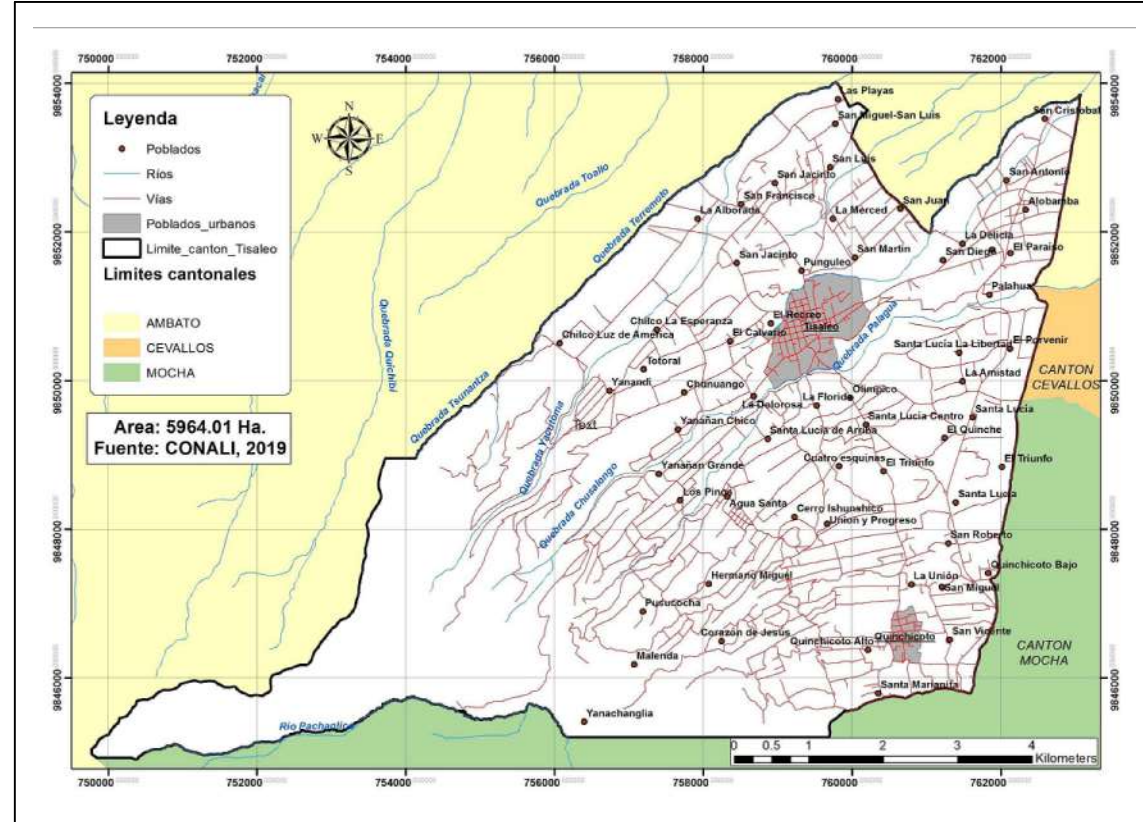


# CHILCO

## LA ESPERANZA



### UBICACIÓN DEL PROYECTO



### DATOS GEOGRÁFICOS

**DATUM:** WGS84 ZONA 17S  
**COORDENADAS UTM:** 759353.24 m E  
 9850780.17 m S  
**ALTURA REFERENCIAL:** 3249 m

### SIMBOLOGÍA

- TUBERÍA H.S. D = 250mm
- POZO DE REVISIÓN
- PERFIL DEL TERRENO
- CALLES / VÍAS

- L LONGITUD DEL TRAMO
- D / Ø DIÁMETRO DE TUBERÍA
- S GRADIENTE HIDRÁULICA
- CT COTA TERRENO
- CP COTA PROYECTO
- CII COTA DE LLEGADA
- Cs COTA DE SALIDA
- HP ALTURA DE POZO

### RED DE ALCANTARILLADO CHILCO - SAN FRANCISCO - SAN LUIS

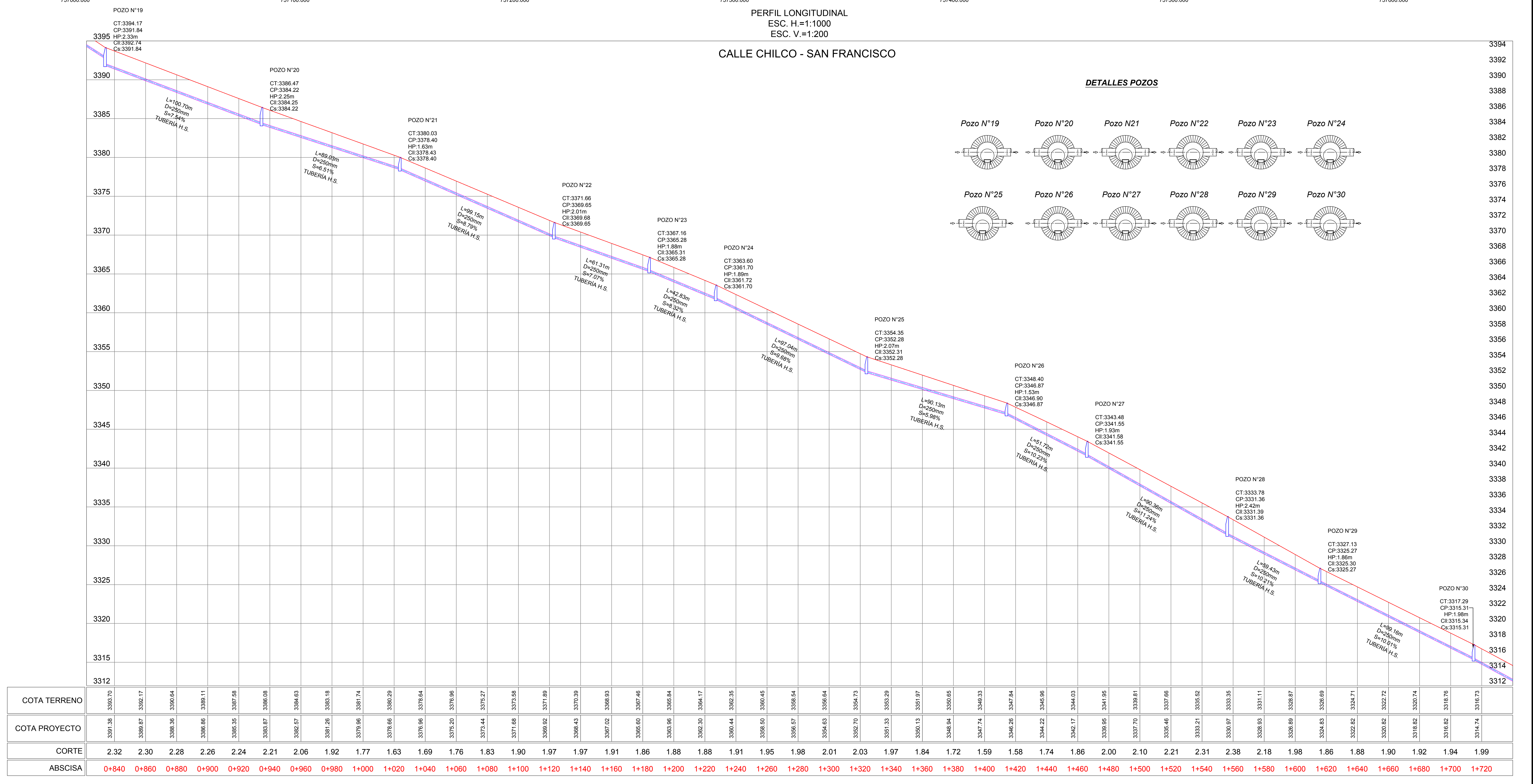
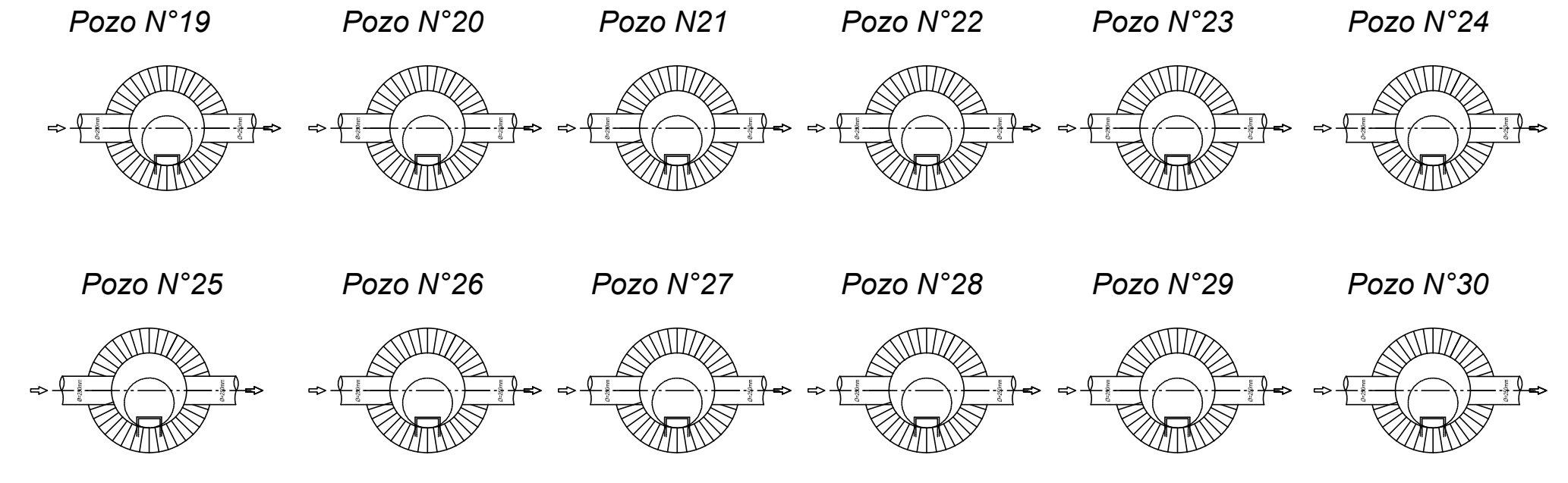
POZO N°	ESTE (m)	NORTE (m)	C. TERRENO	C. LLEGADA	C. SALIDA
<b>CALLE "A"</b>					
1	756025.67	9850479.48	3476.75	-	3474.21
2	756070.91	9850525.34	3476.66	3467.70	3467.50
3	756133.24	9850586.09	3461.55	3459.40	3459.15
4	756205.72	9850660.26	3453.35	3451.13	3450.83
5	756287.90	9850739.53	3442.51	3440.51	3440.48
6	756359.32	9850812.57	3433.04	3427.24	3427.19
7	756429.29	9850739.18	3438.23	3435.10	3435.07
8	756492.57	9850678.63	3438.48	3434.67	3434.64
<b>CALLE CHILCO - SAN FRANCISCO</b>					
9	756333.94	9850344.67	3467.59	-	3466.52
10	756403.59	9850415.07	3458.30	3456.83	3456.81
11	756474.68	9850487.68	3452.99	3451.44	3451.41
12	756536.54	9850550.12	3446.36	3445.16	3445.12
13	756587.58	9850604.72	3436.89	3436.89	3436.86
14	756652.22	9850669.93	3430.61	3429.27	3429.24
15	756708.98	9850725.24	3421.19	3419.12	3419.09
16	756767.78	9850783.42	3411.54	3409.74	3409.71
17	756817.87	9850842.25	3405.75	3404.15	3404.05
18	756873.91	9850907.30	3401.19	3399.53	3399.50
19	756912.59	9850944.68	3394.17	3392.74	3391.84
20	756982.91	9851016.77	3386.47	3384.25	3384.22
21	757045.17	9851080.40	3380.03	3378.43	3378.40
22	757114.84	9851150.85	3371.68	3370.68	3370.65
23	757157.11	9851195.36	3367.16	3365.31	3365.28
24	757187.03	9851226.00	3363.60	3361.72	3361.70
25	757225.80	9851294.46	3354.35	3352.31	3352.28
26	757313.91	9851357.80	3346.40	3346.80	3346.87
27	757351.09	9851399.07	3343.48	3341.58	3341.55
28	757406.26	9851470.64	3333.78	3331.39	3331.36
29	757442.91	9851517.42	3327.13	3325.30	3325.27
30	757503.48	9851595.93	3317.29	3315.34	3315.31
31	757563.07	9851674.97	3306.66	3304.53	3304.50
32	757599.23	9851722.70	3302.46	3300.11	3300.08
33	757634.57	9851766.69	3297.42	3295.44	3295.40
34	757699.42	9851836.71	3290.73	3288.58	3288.55
35	757738.88	9851902.88	3285.21	3282.96	3282.95
36	757778.38	9851969.77	3280.27	3278.18	3278.15
37	757814.97	9852016.62	3275.50	3273.61	3273.58
38	757864.92	9852076.96	3269.12	3267.29	3267.25
39	757958.67	9852146.50	3265.55	3263.57	3263.53
40	758001.15	9852188.81	3263.09	3261.12	3261.09
41	758056.45	9852262.76	3255.72	3253.82	3253.79
42	758115.91	9852339.43	3248.96	3247.02	3246.99
43	758161.78	9852389.88	3242.85	3241.30	3241.27
44	758203.13	9852435.75	3238.00	3236.11	3236.08

### PERFIL LONGITUDINAL

ESC. H.=1:1000  
 ESC. V.=1:200

### CALLE CHILCO - SAN FRANCISCO

### DETALLES POZOS



### G.A.D. MUNICIPAL DEL CANTON TISALEO

CONTIENE: RED DE ALCANTARILLADO SANITARIO CHILCO - SAN FRANCISCO - SAN LUIS

ELABORADO POR: Egda. Tamara Bonilla Testa

REVISADO POR: Ing. Gato Nuñez Tutor

APROBADO POR: Ing. Gato Nuñez Tutor

FECHA: AGOSTO, 2022

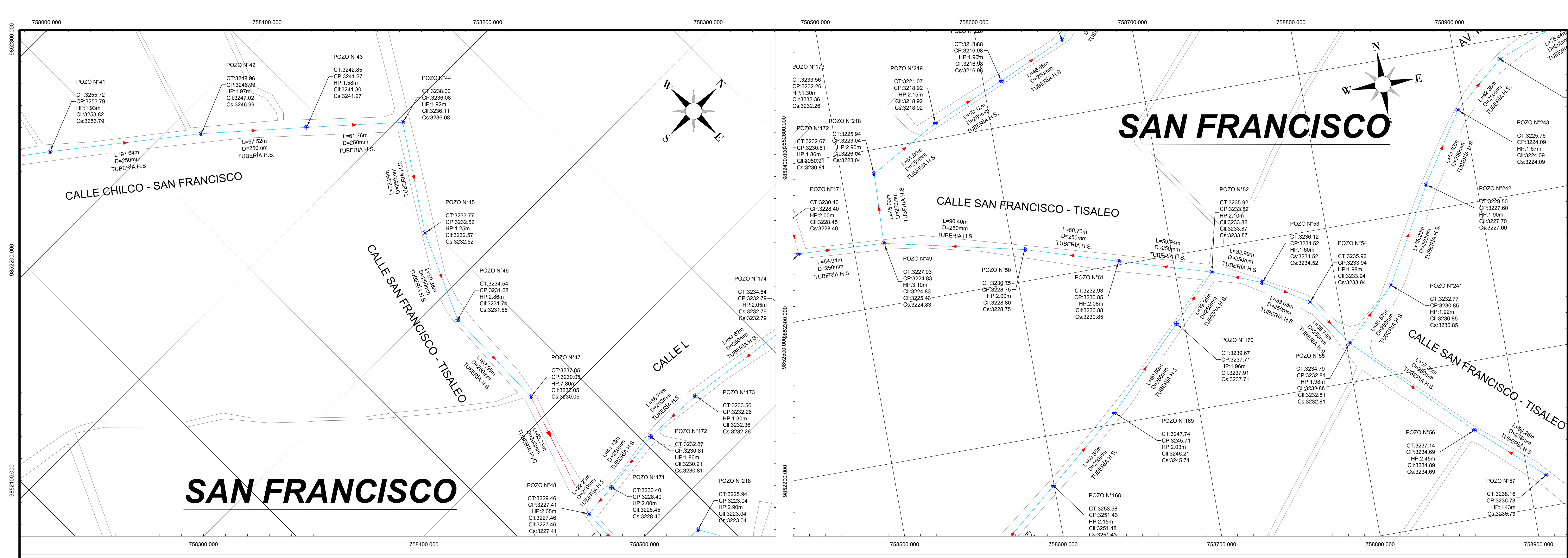
TOTAL LÁMINAS: 24

LÁMINA: 03









### UBICACIÓN DEL PROYECTO

### DATOS GEOGRÁFICOS

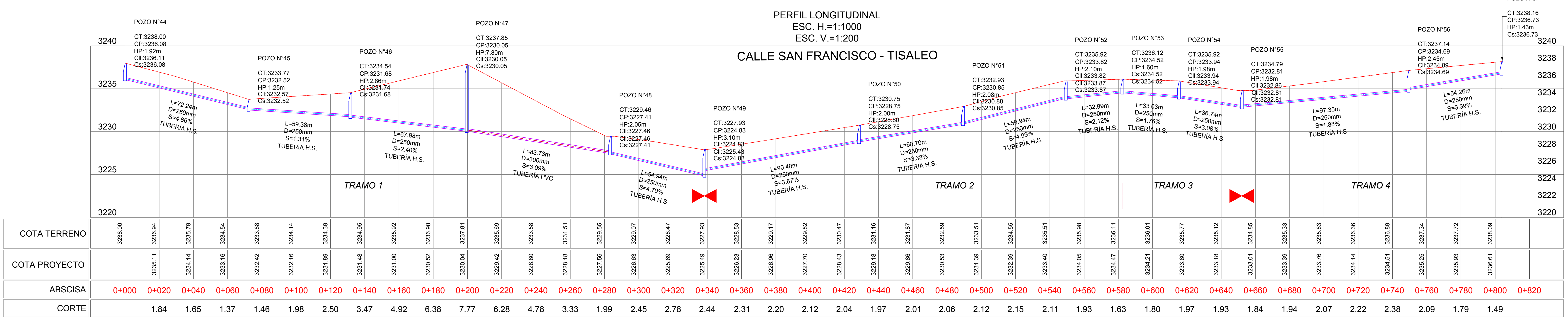
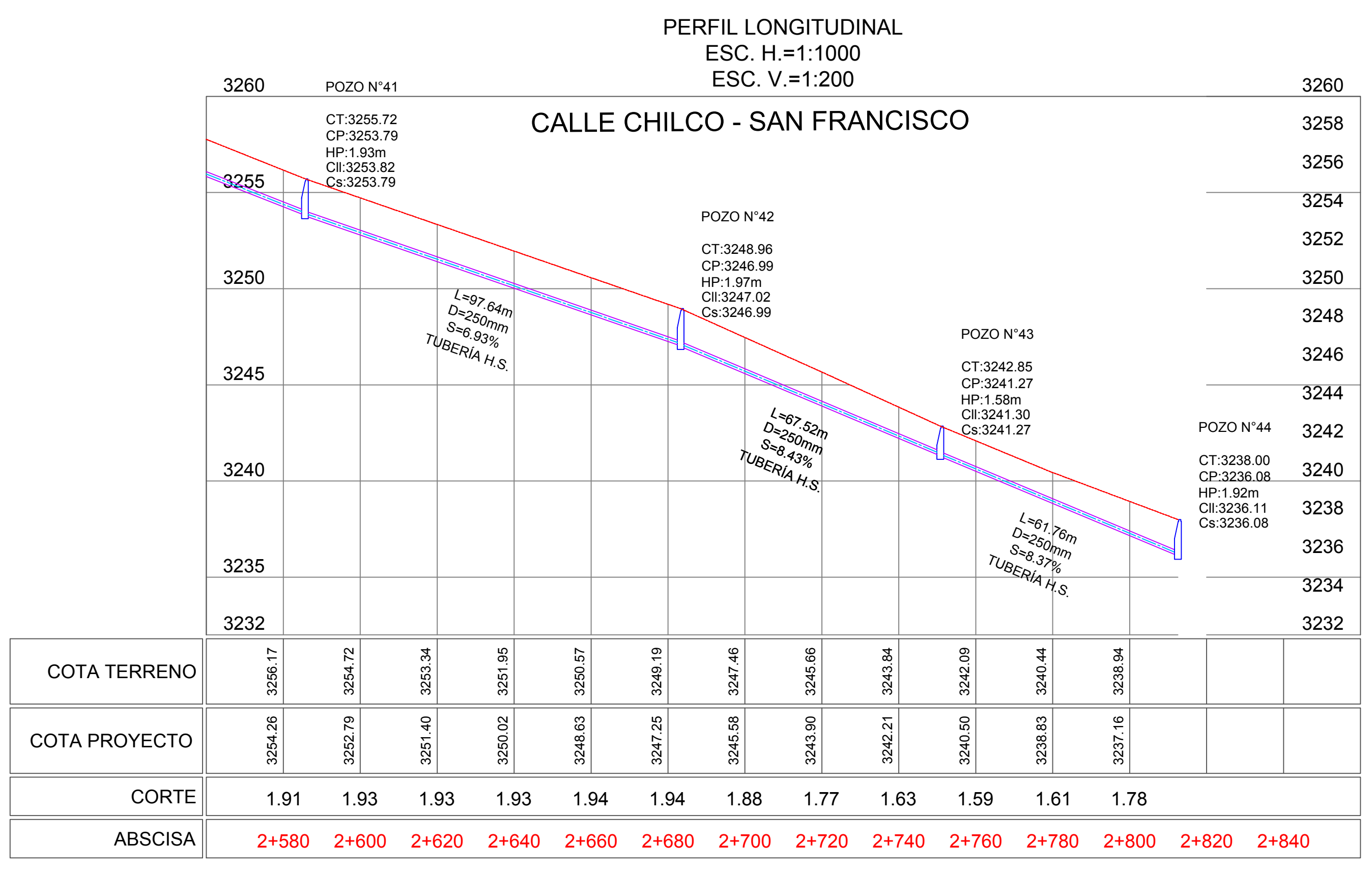
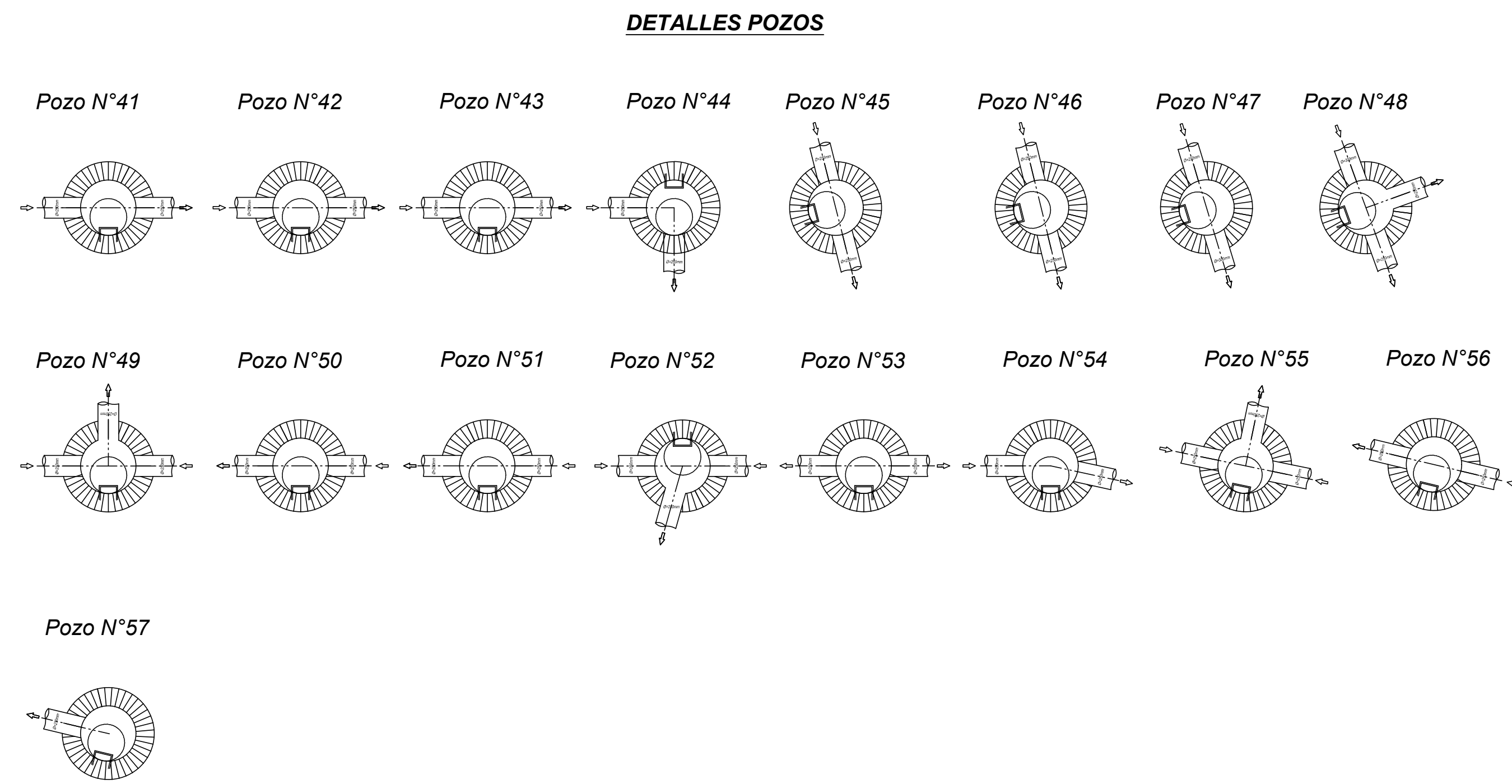
**DATUM:** WGS84 ZONA 17S

**COORDENADAS UTM:**  
759353.24 m E  
9850780.17 m S

**ALTURA REFERENCIAL:**  
3249 m

### SIMBOLOGÍA

- TUBERÍA H.S. D = 250mm
- TUBERÍA PVC D = 300mm
- POZO DE REVISIÓN
- PERFIL DEL TERRENO
- CALLES / VÍAS



N°	ESTE (m)	NORTE (m)	C. TERRENO (m)	C. LLEGADA	C. SALIDA
<b>RED DE ALCANTARILLADO CHILCO - SAN FRANCISCO - SAN LUIS</b>					
41	759056.45	9852262.76	3255.72	3253.82	3253.79
42	759116.91	9852339.43	3248.96	3247.02	3246.99
43	759161.78	9852389.88	3242.85	3241.30	3241.27
44	758203.13	9852435.75	3238.00	3236.11	3236.08
<b>RED DE ALCANTARILLADO CHILCO - SAN FRANCISCO - SAN LUIS</b>					
N°	ESTE (m)	NORTE (m)	C. TERRENO (m)	C. LLEGADA	C. SALIDA
<b>CALLE SAN FRANCISCO - TISALEO</b>					
<b>TRAMO 1</b>					
44	758203.13	9852435.75	3238.00	3236.11	3236.08
45	758263.21	9852395.65	3233.77	3232.57	3232.52
46	758317.30	9852371.15	3234.54	3231.74	3231.68
47	758385.25	9852369.40	3237.85	3230.05	3230.05
48	758484.55	9852342.53	3229.46	3227.46	3227.41
49	758519.42	9852339.72	3227.93	3224.83	3224.83
<b>TRAMO 2</b>					
53	758753.78	9852272.93	3236.12	3234.52	3234.52
52	758723.11	9852285.07	3235.92	3233.87	3233.82
51	758665.67	9852302.22	3232.93	3230.88	3230.85
50	758607.67	9852320.10	3230.75	3228.80	3228.75
49	758519.42	9852339.72	3227.93	3224.83	3224.83
<b>TRAMO 3</b>					
53	758753.78	9852272.93	3236.12	3234.52	3234.52
54	758781.71	9852255.29	3235.92	3233.94	3233.94
55	758802.28	9852224.84	3234.79	3232.86	3232.81
<b>TRAMO 4</b>					
57	758911.58	9852119.86	3238.16	3236.73	3236.73
56	758871.25	9852156.15	3237.14	3234.89	3234.69
55	758802.28	9852224.84	3234.79	3232.86	3232.81

### G.A.D. MUNICIPAL DEL CANTON TISALEO

"CATASTRO DE LOS SISTEMAS DE ALCANTARILLADO A TRAVÉS DE LA GEOINFORMACIÓN Y DIGITALIZACIÓN PARA MEJORAR LA CALIDAD DE INFORMACIÓN SANITARIA DE LA PARROQUIA URBANA TISALEO Y CASERIOS SAN LUIS, SAN FRANCISCO, SAN JUAN, SAN DIEGO, ALDAMA, SANTA LUCÍA LIBERTAD, SANTA LUCÍA-CANTON, SANTA LUCÍA ARRIBA, EL CALVARIO DEL CANTÓN TISALEO, PROVINCIA DE TUNGURAHUA"

CONTENIDO: RED DE ALCANTARILLADO SANITARIO CHILCO - SAN FRANCISCO - SAN LUIS

ELABORADO POR: Egda Tamara Bonita Testa

REVISADO POR: Ing. Gato Nuñez Tutor

APROBADO POR: Ing. Gato Nuñez Tutor

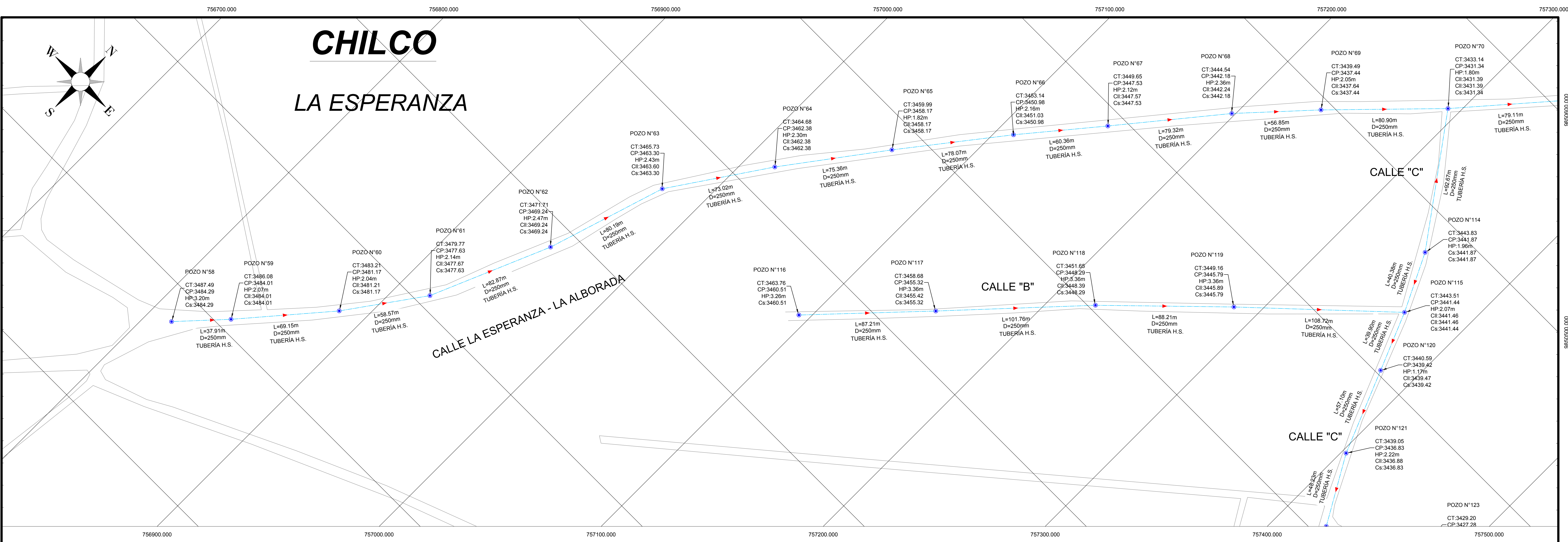
FECHA: AGOSTO, 2022

ESCALA: 1:1000

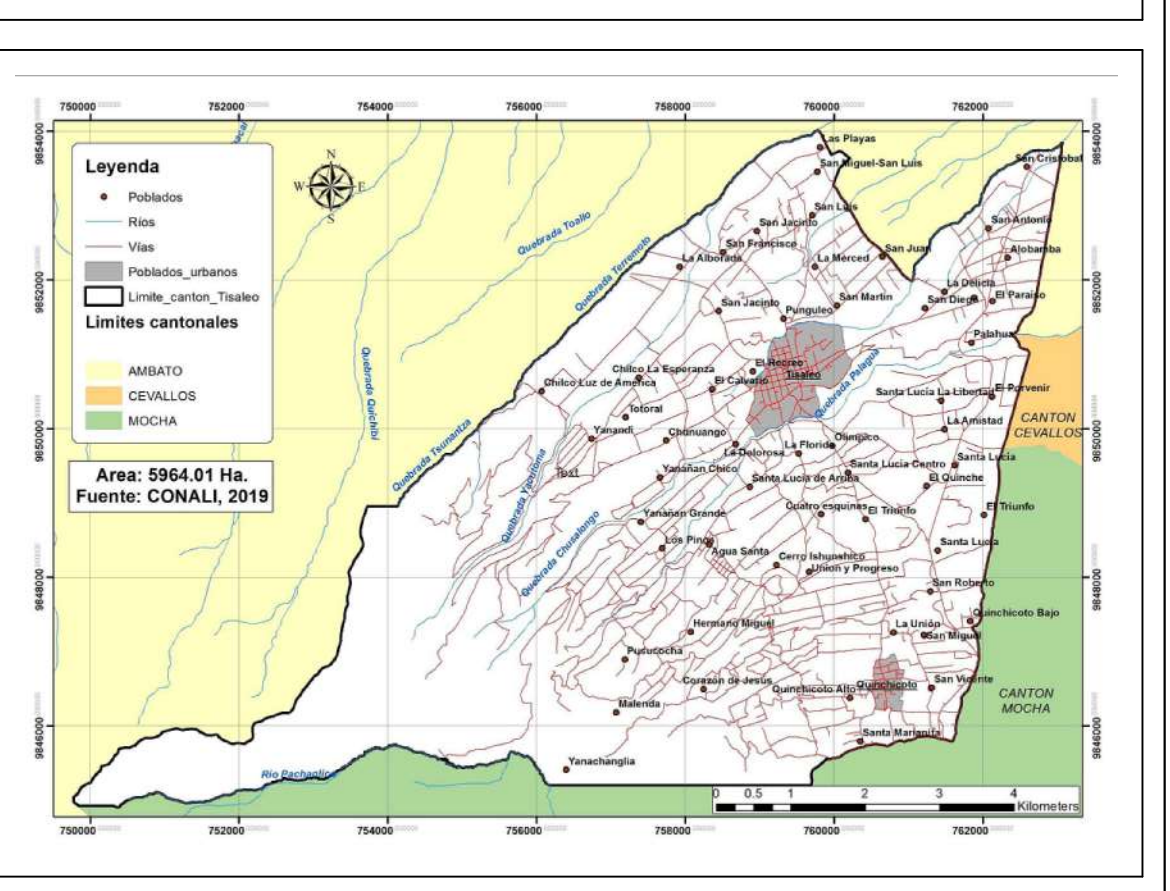
LÁMINA: LÁMINA - 05

TOTAL LÁMINAS: 24





### UBICACIÓN DEL PROYECTO



### DATOS GEOGRÁFICOS

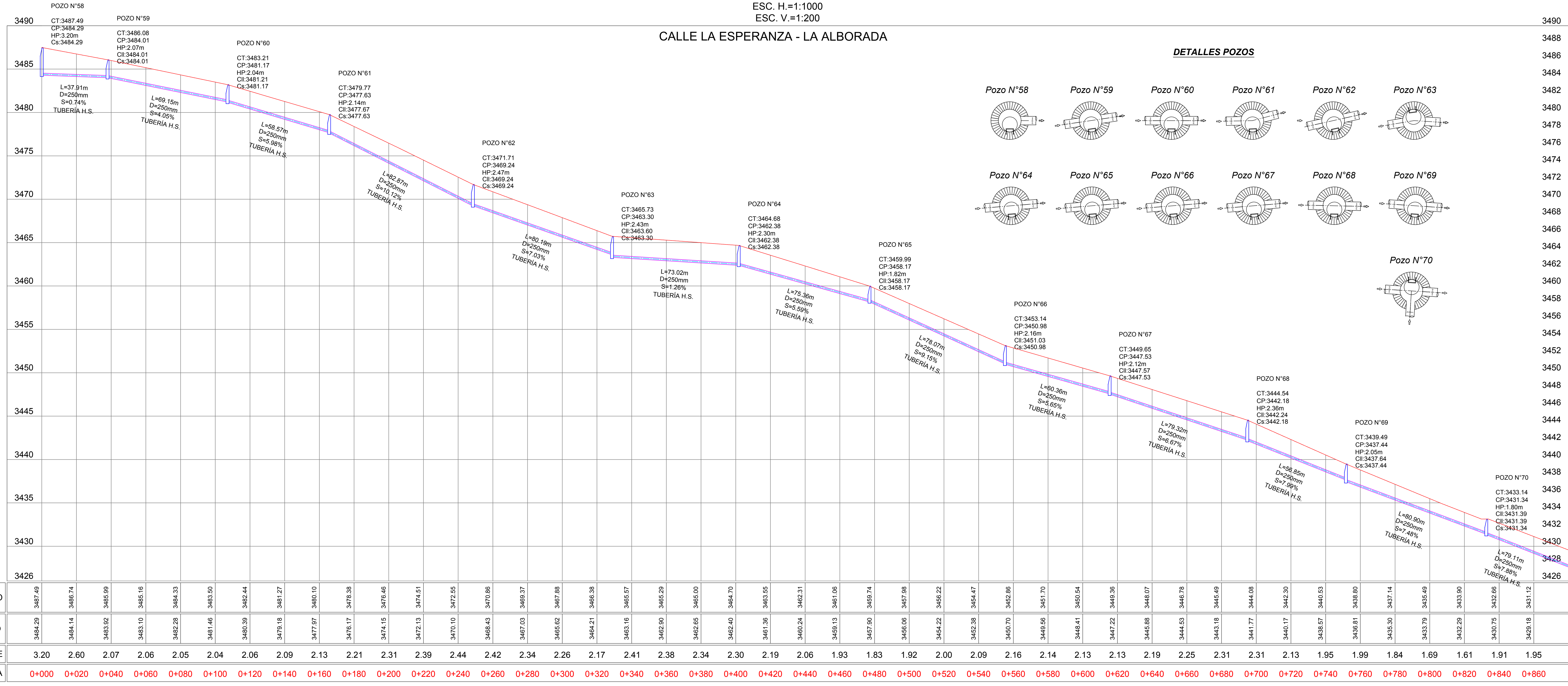
**DATUM:** WGS84 ZONA 17S  
**COORDENADAS UTM:** 759353.24 m E  
 9850780.17 m S  
**ALTURA REFERENCIAL:** 3249 m

### SIMBOLOGÍA

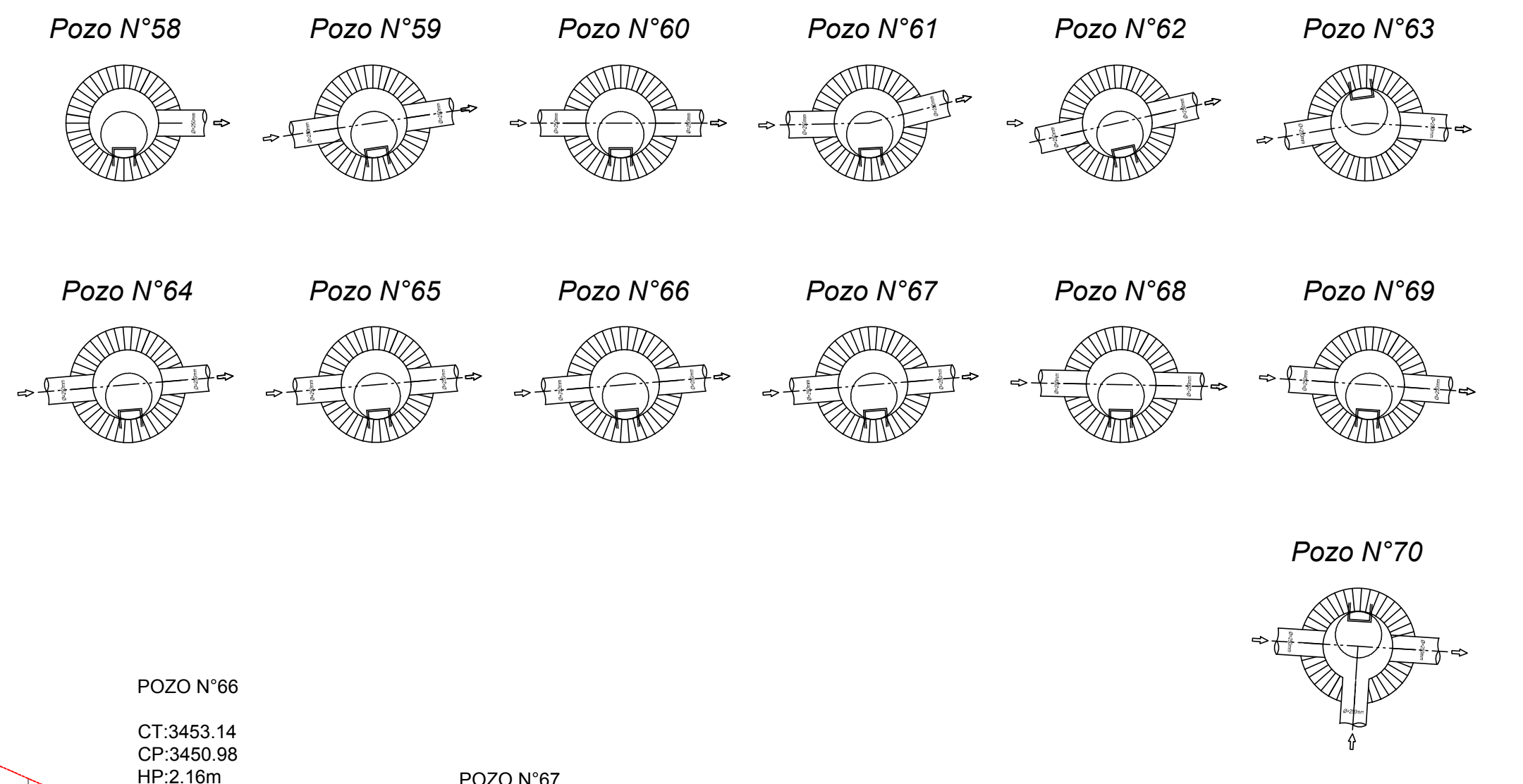
- TUBERÍA H.S. D = 250mm
- POZO DE REVISIÓN
- PERFIL DEL TERRENO
- CALLES / VÍAS

- L LONGITUD DEL TRAMO
- D / Ø DIÁMETRO DE TUBERÍA
- S GRADIENTE HIDRÁULICA
- CT COTA TERRENO
- CP COTA PROYECTO
- CI COTA DE LLEGADA
- Cs COTA DE SALIDA
- HP ALTURA DE POZO

PERFIL LONGITUDINAL  
 ESC. H.=1:1000  
 ESC. V.=1:200



### DETALLES POZOS



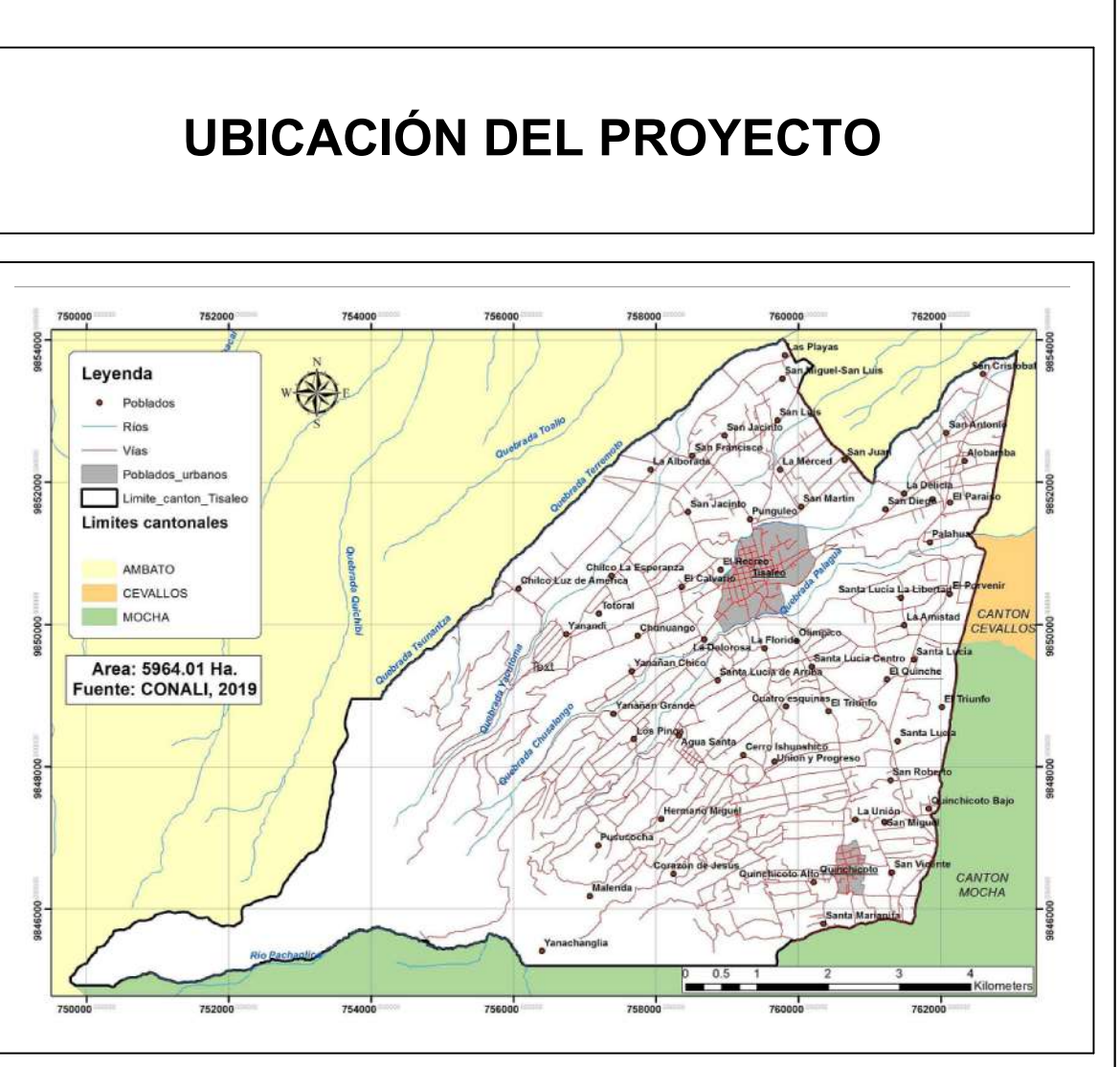
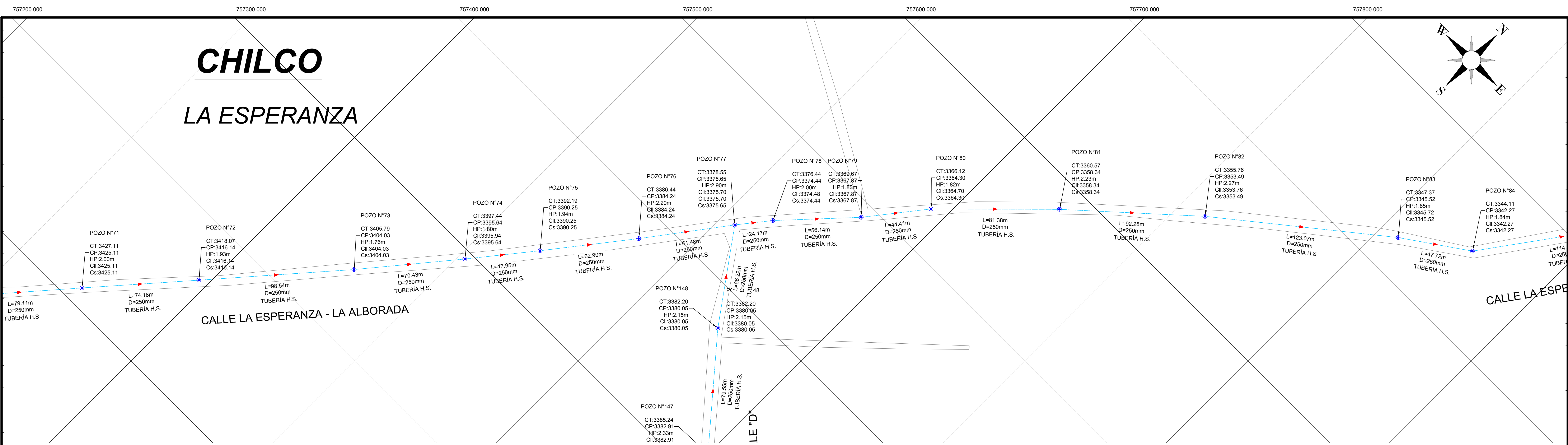
N°	ESTE (m)	NORTE (m)	C. TERRENO	C. LLEGADA	C. SALIDA
58	756814.34	9848880.20	3487.49	-	3485.29
59	756840.09	9849908.01	3486.08	3484.01	3483.98
60	756855.08	9849960.54	3483.21	3481.21	3481.17
61	756819.01	9850028.27	3479.77	3477.67	3477.63
62	756895.55	9850084.48	3471.71	3469.24	3469.24
63	756895.61	9850180.98	3465.73	3463.60	3463.30
64	757016.47	9850221.50	3464.68	3462.38	3462.38
65	757061.50	9850281.92	3459.99	3458.17	3458.17
66	757109.49	9850343.49	3453.14	3451.03	3450.98
67	757148.04	9850389.94	3449.65	3447.57	3447.53
68	757196.22	9850451.37	3444.54	3442.24	3442.18
69	757236.78	9850493.15	3439.49	3437.64	3437.44
70	757293.38	9850550.96	3433.14	3431.39	3431.34
71	757345.29	9850610.65	3427.11	3425.11	3425.11
72	757394.15	9850666.46	3418.07	3416.14	3416.14
73	757458.91	9850740.73	3405.79	3404.03	3404.03
74	757503.79	9850785.01	3397.44	3395.84	3395.84
75	757533.77	9850832.44	3392.19	3390.25	3390.25
76	757572.48	9850882.00	3386.44	3384.24	3384.24
77	757609.39	9850931.18	3378.55	3376.70	3376.65
78	757624.44	9850950.09	3374.44	3374.48	3374.44
79	757662.67	9850991.21	3369.67	3367.87	3367.87
80	757690.09	9851026.14	3366.12	3364.70	3364.30
81	757747.82	9851083.50	3360.57	3358.34	3358.34
82	757816.13	9851145.54	3355.78	3353.76	3353.49
83	757812.12	9851222.56	3347.37	3345.72	3345.52
84	757851.39	9851249.68	3344.11	3342.27	3342.27
85	758018.50	9851342.65	3337.79	3336.12	3335.82
86	758060.35	9851413.21	3332.06	3330.12	3330.12
87	758115.40	9851495.43	3323.32	3321.52	3321.52
88	758155.97	9851548.40	3318.64	3316.81	3316.81
89	758205.33	9851588.05	3315.19	3313.20	3313.20

**G.A.D. MUNICIPAL DEL CANTON TISALEO**  
 "CATASTRO DE LOS SISTEMAS DE ALICANTARRILLO A TRAVÉS DE LA GEOINFORMACIÓN Y DIGITALIZACIÓN PARA MEJORAR LA CALIDAD DE INFORMACIÓN SANITARIA DE LA PARROQUIA URBANA TISALEO Y CASERIOS SAN LUIS, SAN FRANCISCO, SAN JUAN, SAN DIEGO, ALDAMBA, SANTA LUCÍA LA LIBERTAD, SANTA LUCÍA-CENTRO, SANTA LUCÍA ARRIBA, EL CALVARIO DEL CANTÓN TISALEO, PROVINCIA DE TUNGURAHUA"

CONTIENE:  
 RED DE ALICANTARRILLO SANITARIO CHILCO LA ESPERANZA - SAN FRANCISCO  
 BARRIO LA ESPERANZA

PROVINCIA: TUNGURAHUA CANTÓN: TISALEO SECTOR: CHILCO LA ESPERANZA  
 FECHA: AGOSTO, 2022 ESCALA: 1:1000  
 ELABORADO POR: Egda Tamara Bonita Testa REVISADO POR: Ing. Gato Nuñez Tutor APROBADO POR: Ing. Gato Nuñez Tutor LÁMINA: LÁMINA - 06 TOTAL LÁMINAS: 24





### DATOS GEOGRÁFICOS

**DATUM:** WGS84 ZONA 17S

**COORDENADAS UTM:**  
759353.24 m E  
9850780.17 m S

**ALTURA REFERENCIAL:**  
3249 m

### SIMBOLOGÍA

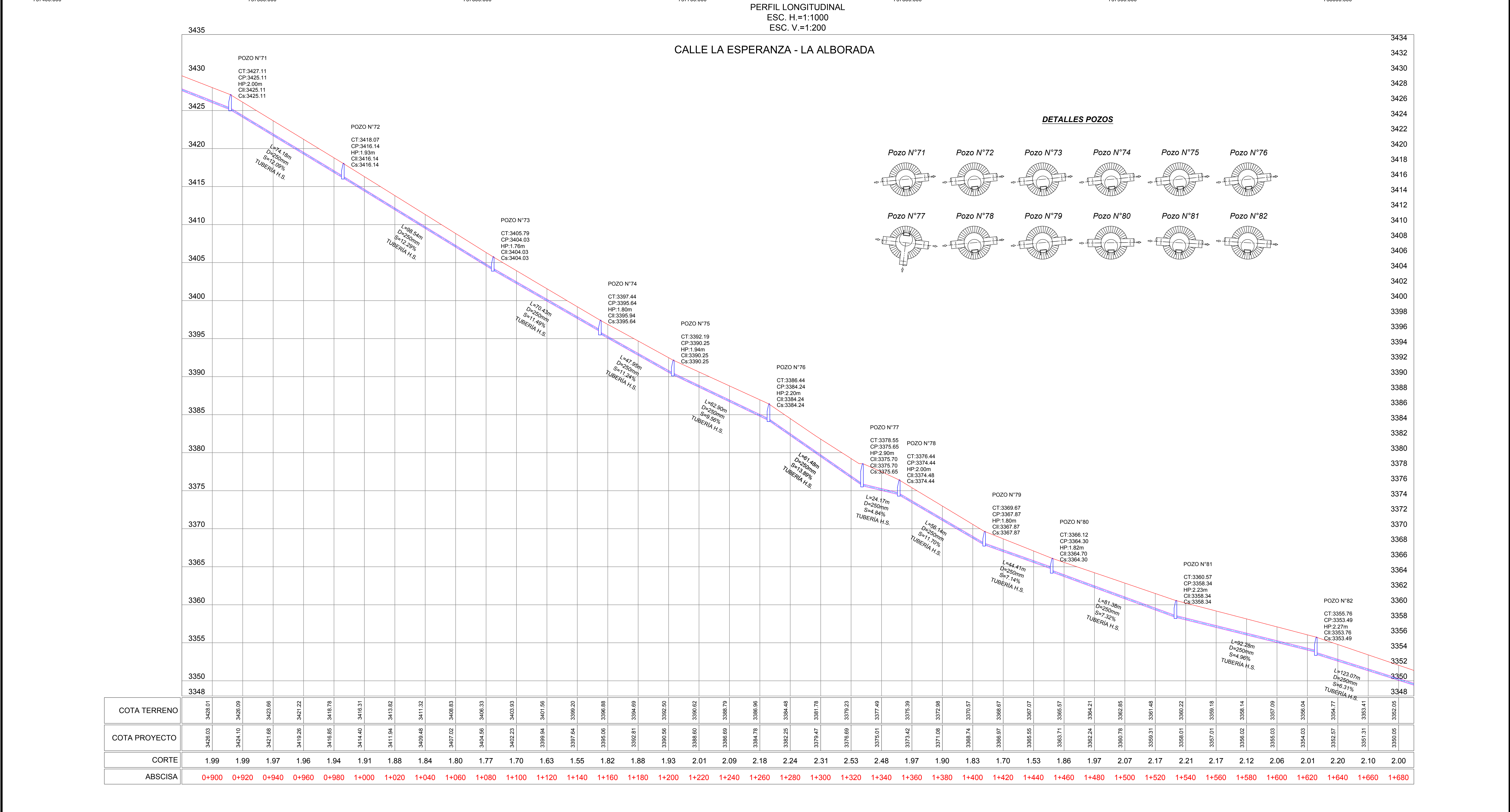
TUBERÍA H.S. D = 250mm

POZO DE REVISIÓN

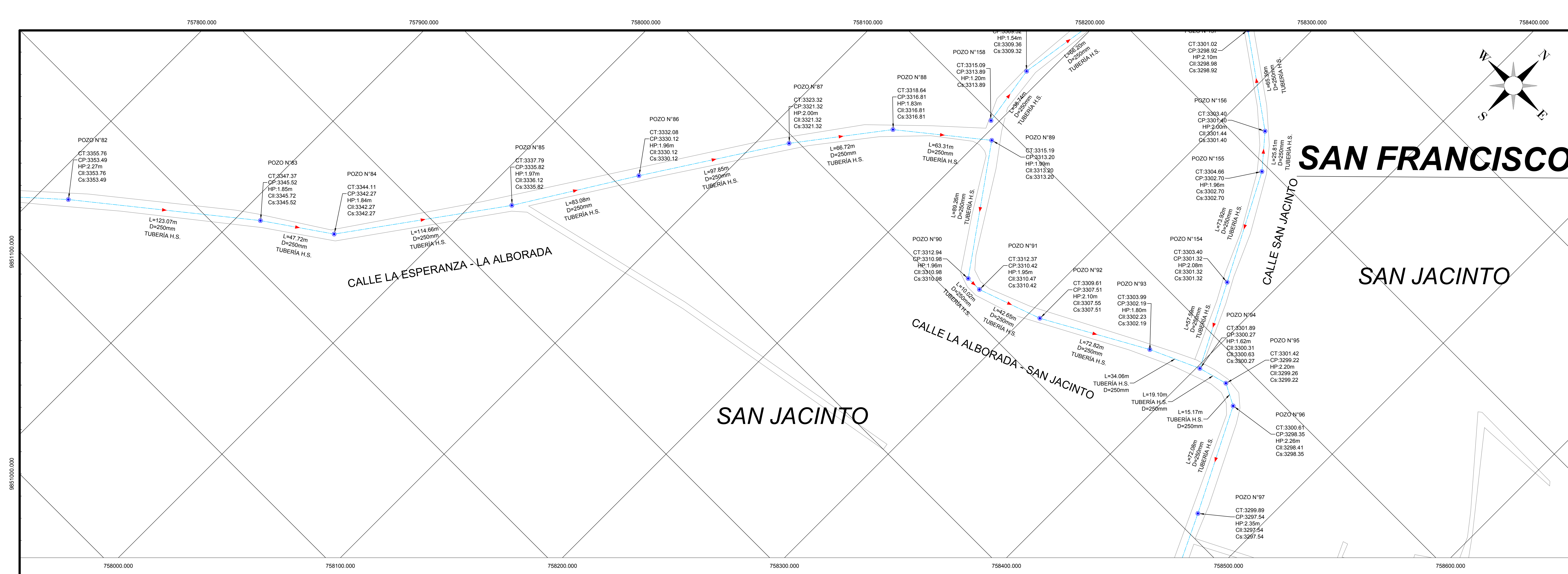
PERFIL DEL TERRENO

CALLES / VÍAS

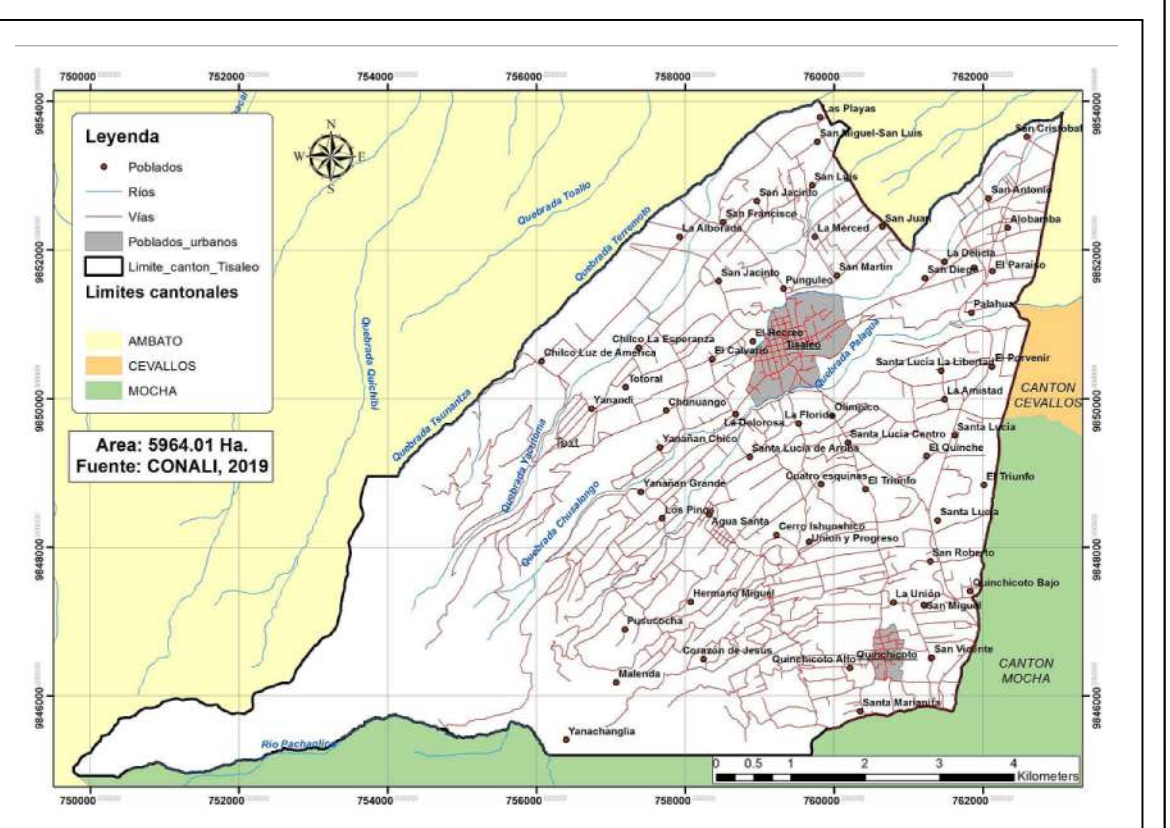
L LONGITUD DEL TRAMO  
D / Ø DIÁMETRO DE TUBERÍA  
S GRADIENTE HIDRÁULICA  
CT COTA TERRENO  
CP COTA PROYECTO  
CII COTA DE LLEGADA  
Cs COTA DE SALIDA  
HP ALTURA DE POZO







**UBICACIÓN DEL PROYECTO**



**DATOS GEOGRÁFICOS**

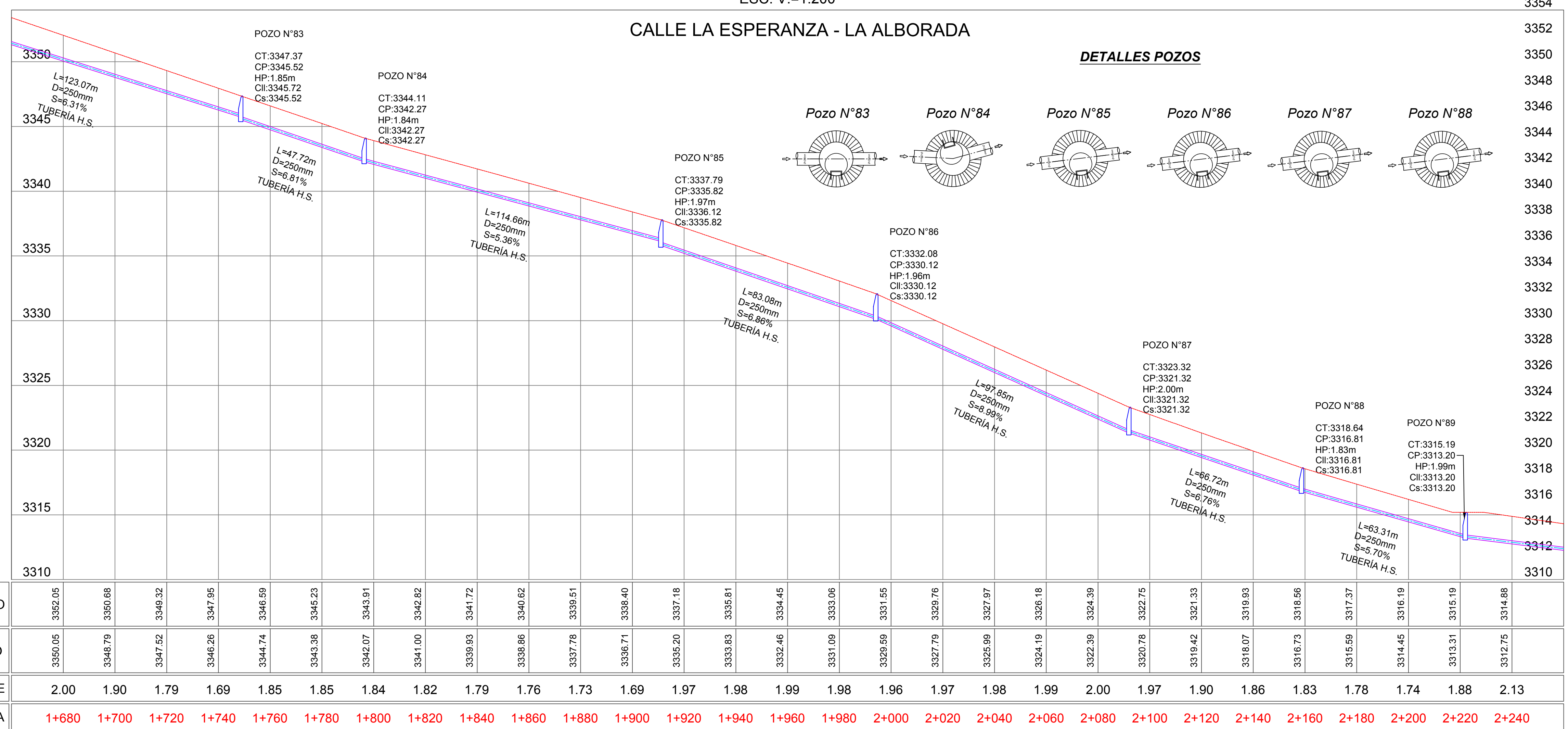
**DATUM:** WGS84 ZONA 17S  
**COORDENADAS UTM:** 759353.24 m E  
 9850780.17 m S  
**ALTURA REFERENCIAL:** 3249 m

**SIMBOLOGÍA**

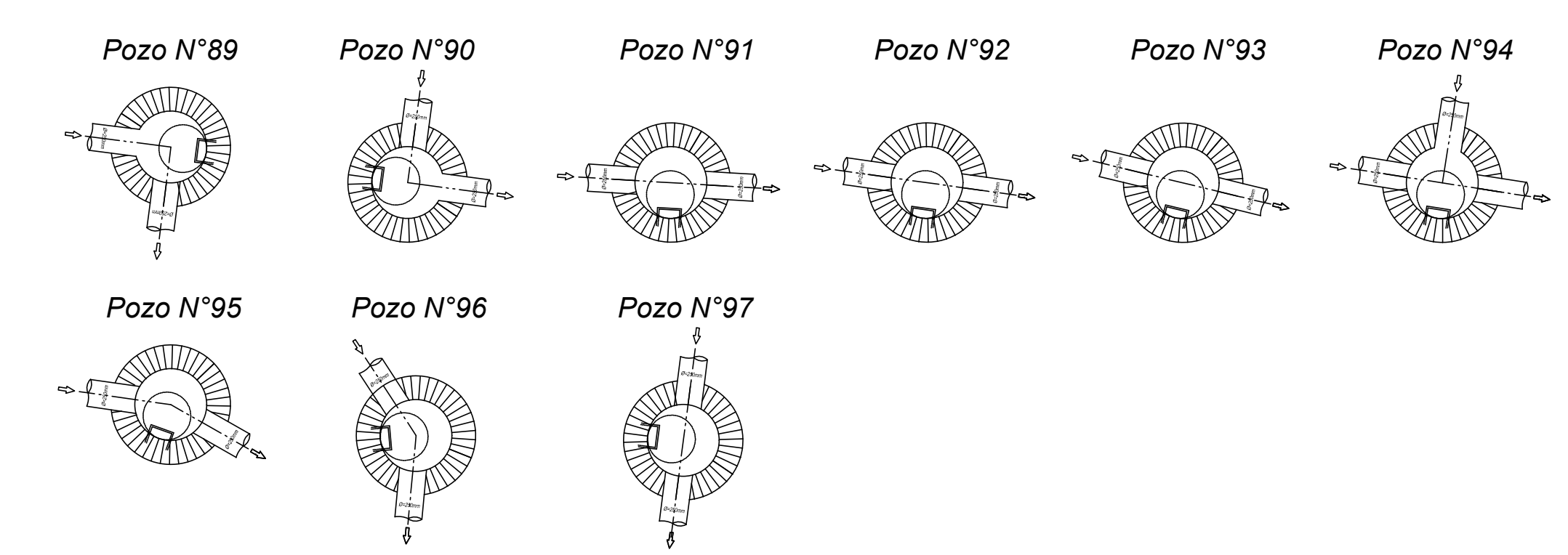
- TUBERÍA H.S. D = 250mm
- POZO DE REVISIÓN
- PERFIL DEL TERRENO
- CALLES / VÍAS

- L LONGITUD DEL TRAMO
- D / Ø DIÁMETRO DE TUBERÍA
- S GRADIENTE HIDRÁULICA
- CT COTA TERRENO
- CP COTA PROYECTO
- CII COTA DE LLEGADA
- Cs COTA DE SALIDA
- HP ALTURA DE POZO

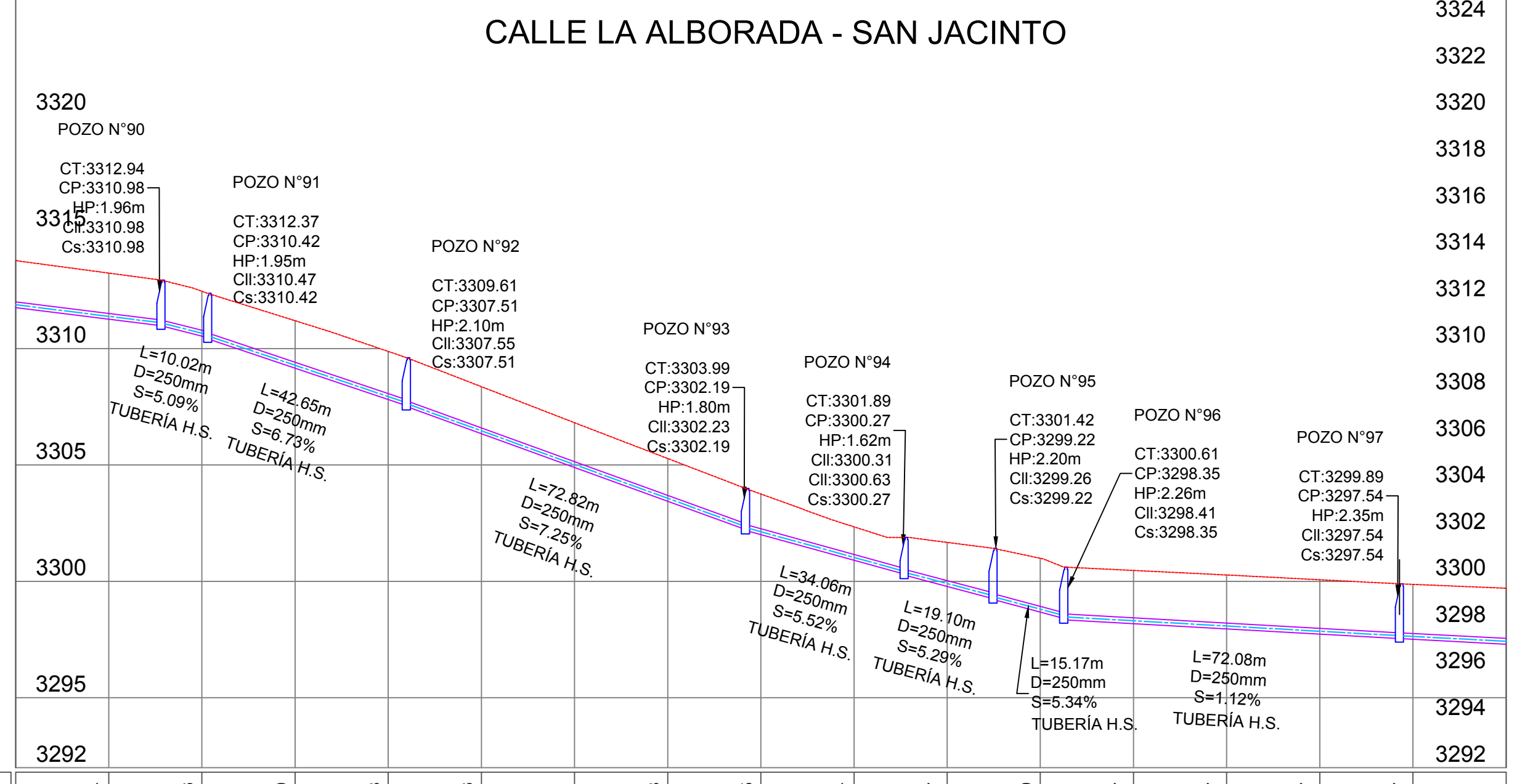
**PERFIL LONGITUDINAL**  
 ESC. H.=1:1000  
 ESC. V.=1:200



**DETALLES POZOS**



**PERFIL LONGITUDINAL**  
 ESC. H.=1:1000  
 ESC. V.=1:200



	1+680	1+700	1+720	1+740	1+760	1+780	1+800	1+820	1+840	1+860	1+880	1+900	1+920	1+940	1+960	1+980	2+000	2+020	2+040	2+060	2+080	2+100	2+120	2+140	2+160	2+180	2+200	2+220	2+240
COTA TERRENO	3350.05	3350.05	3349.68	3349.32	3348.95	3348.59	3348.23	3347.87	3347.51	3347.15	3346.79	3346.43	3346.07	3345.71	3345.35	3344.99	3344.63	3344.27	3343.91	3343.55	3343.19	3342.83	3342.47	3342.11	3341.75	3341.39	3341.03	3340.67	3340.31
COTA PROYECTO	3350.05	3349.79	3349.53	3349.27	3349.01	3348.75	3348.49	3348.23	3347.97	3347.71	3347.45	3347.19	3346.93	3346.67	3346.41	3346.15	3345.89	3345.63	3345.37	3345.11	3344.85	3344.59	3344.33	3344.07	3343.81	3343.55	3343.29	3343.03	3342.77
CORTE	2.00	1.90	1.79	1.69	1.85	1.85	1.84	1.82	1.79	1.76	1.73	1.69	1.97	1.98	1.99	1.98	1.96	1.97	1.98	1.99	2.00	1.97	1.90	1.86	1.83	1.78	1.74	1.88	2.13
ABSCISA	1+680	1+700	1+720	1+740	1+760	1+780	1+800	1+820	1+840	1+860	1+880	1+900	1+920	1+940	1+960	1+980	2+000	2+020	2+040	2+060	2+080	2+100	2+120	2+140	2+160	2+180	2+200	2+220	2+240

COTA TERRENO	3317.24	3317.48	3317.72	3317.96	3318.20	3318.44	3318.68	3318.92	3319.16	3319.40	3319.64	3319.88	3320.12	3320.36	3320.60	3320.84	3321.08	3321.32	3321.56	3321.80	3322.04	3322.28	3322.52	3322.76	3323.00	3323.24	3323.48	3323.72	
COTA PROYECTO	3317.24	3316.98	3316.72	3316.46	3316.20	3315.94	3315.68	3315.42	3315.16	3314.90	3314.64	3314.38	3314.12	3313.86	3313.60	3313.34	3313.08	3312.82	3312.56	3312.30	3312.04	3311.78	3311.52	3311.26	3311.00	3310.74	3310.48	3310.22	3309.96
CORTE	1.98	1.93	2.04	2.06	2.02	1.92	1.83	1.71	1.22	1.63	2.22	2.25	2.29	2.32	2.36														
ABSCISA	2+300	2+320	2+340	2+360	2+380	2+400	2+420	2+440	2+460	2+480	2+500	2+520	2+540	2+560	2+580														

**G.A.D. MUNICIPAL DEL CANTÓN TISALEO**

"CATASTRO DE LOS SISTEMAS DE ALICANTARILLADO A TRAVÉS DE LA GEOINFORMACIÓN Y DIGITALIZACIÓN PARA MEJORAR LA CALIDAD DE INFORMACIÓN SANITARIA DE LA PARROQUIA URBANA TISALEO Y CASERIOS SAN LUIS, SAN FRANCISCO, SAN JUAN, SAN DIEGO, ALDABAMA, SANTA LUCÍA-LA LIBERTAD, SANTA LUCÍA-CENTRO, SANTA LUCÍA ARRIBA, EL CALVARIO DEL CANTÓN TISALEO, PROVINCIA DE TUNGURAHUA"

CONTIENE:  
 RED DE ALICANTARILLADO SANITARIO CHILCO LA ESPERANZA - SAN FRANCISCO  
 BARRIO SAN JACINTO

PROVINCIA: TUNGURAHUA CANTÓN: TISALEO SECTOR: SAN FRANCISCO

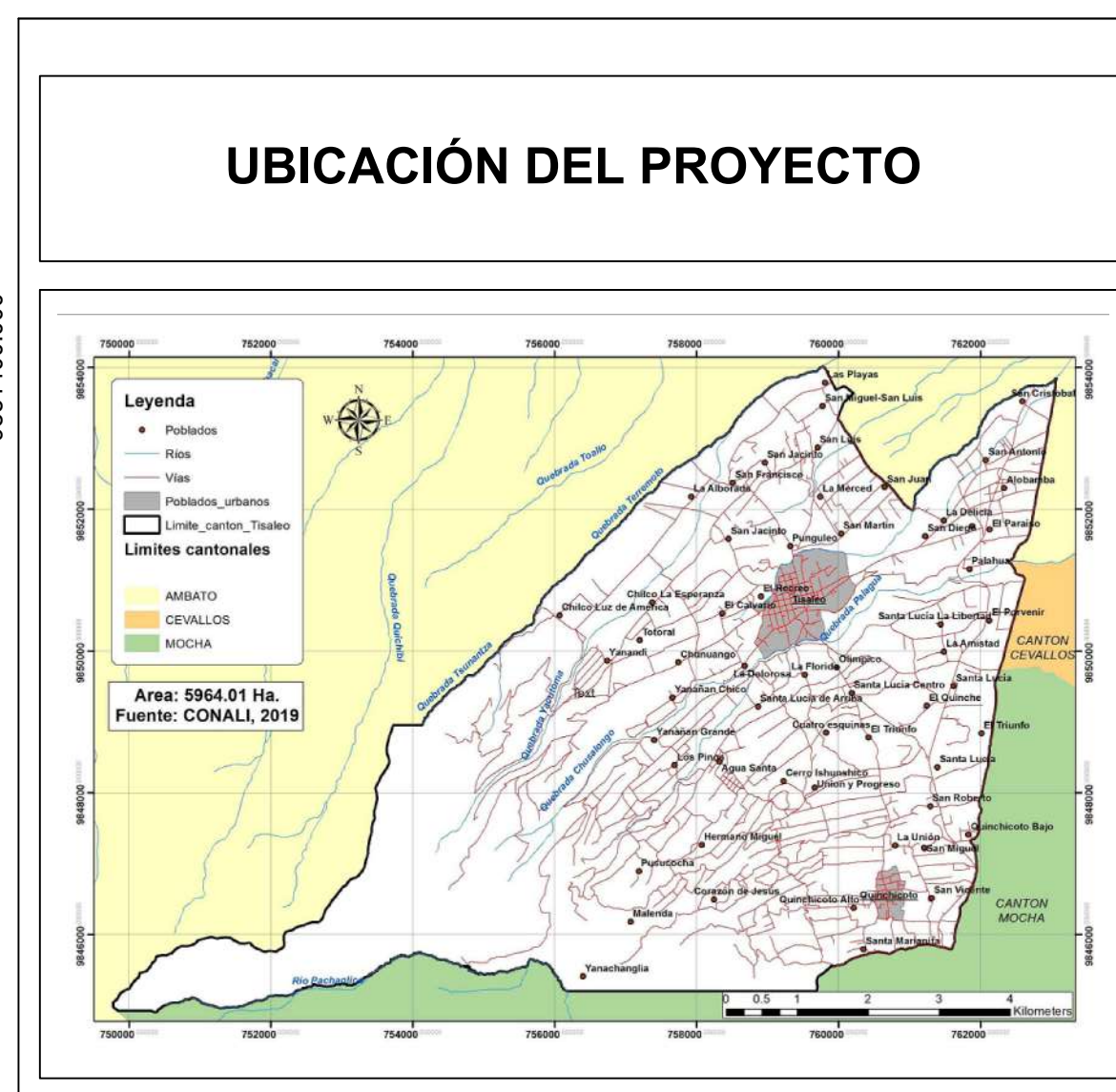
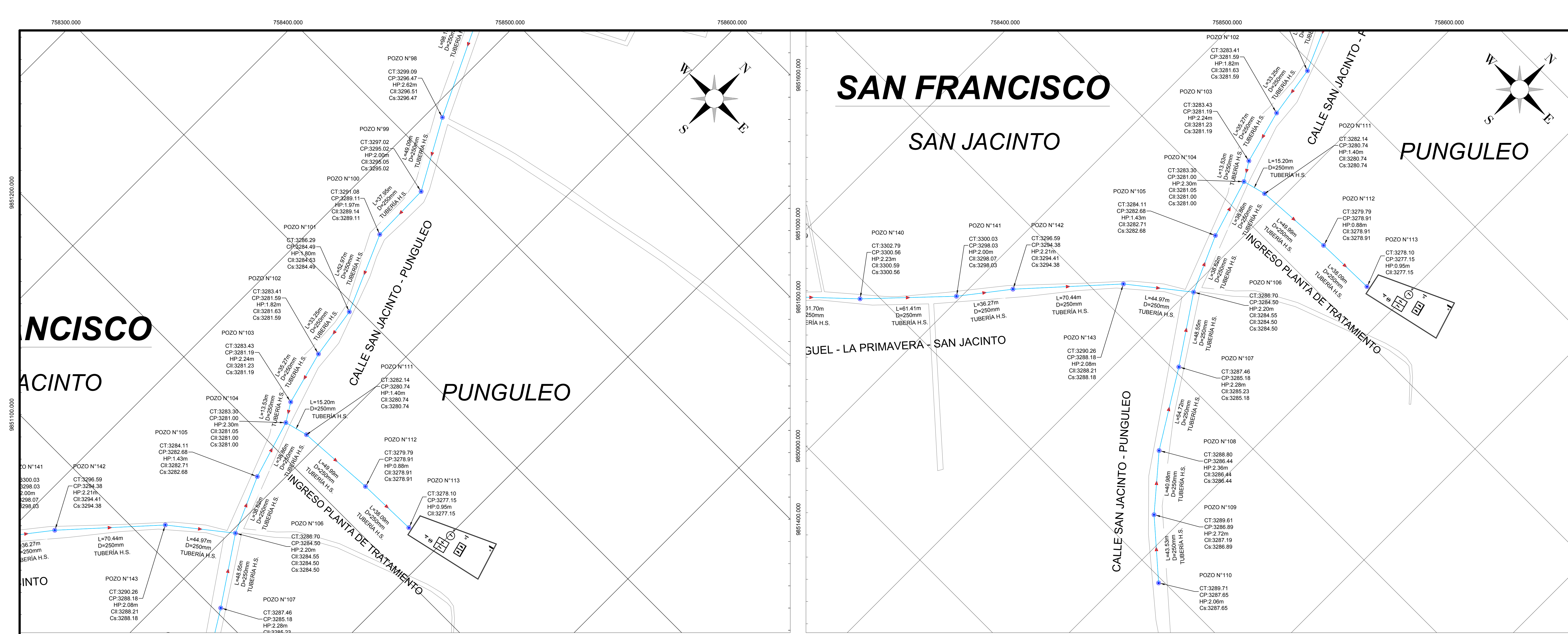
FECHA: AGOSTO, 2022 ESCALA: 1:1000

ELABORADO POR: REVISADO POR: APROBADO POR:

Egla Tamara Bonilla Testa Ing. Gato Nuñez Tutor Ing. Gato Nuñez Tutor

LÁMINA: LÁMINA - 08 TOTAL LÁMINAS: 24



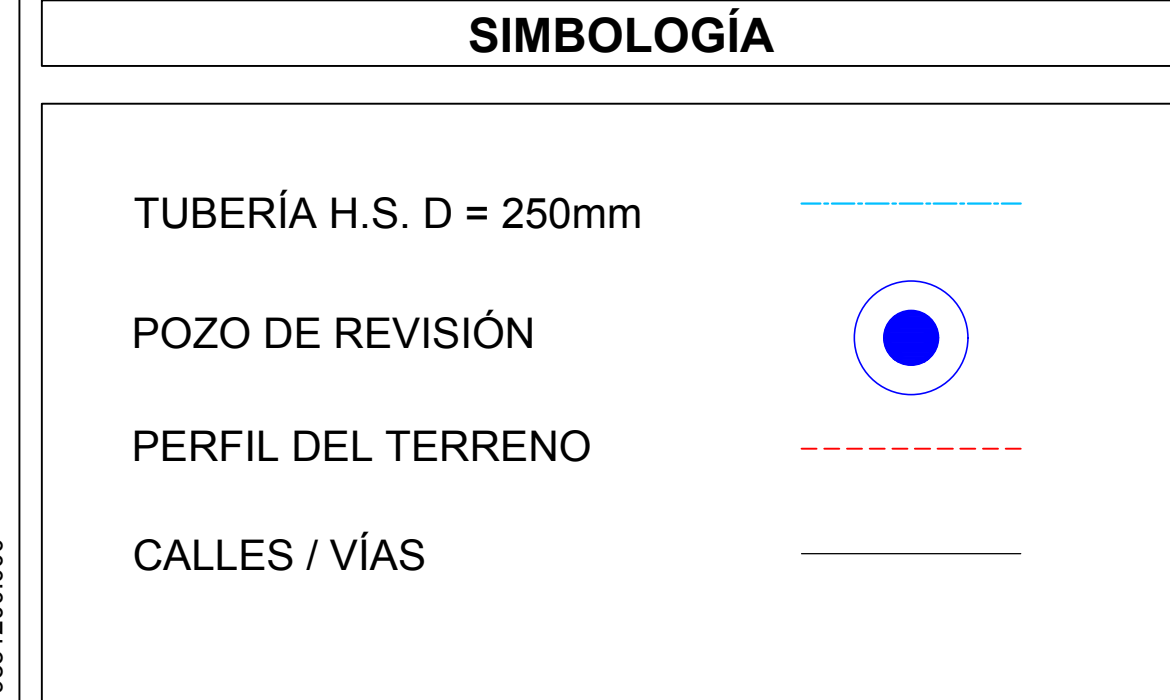


### DATOS GEOGRÁFICOS

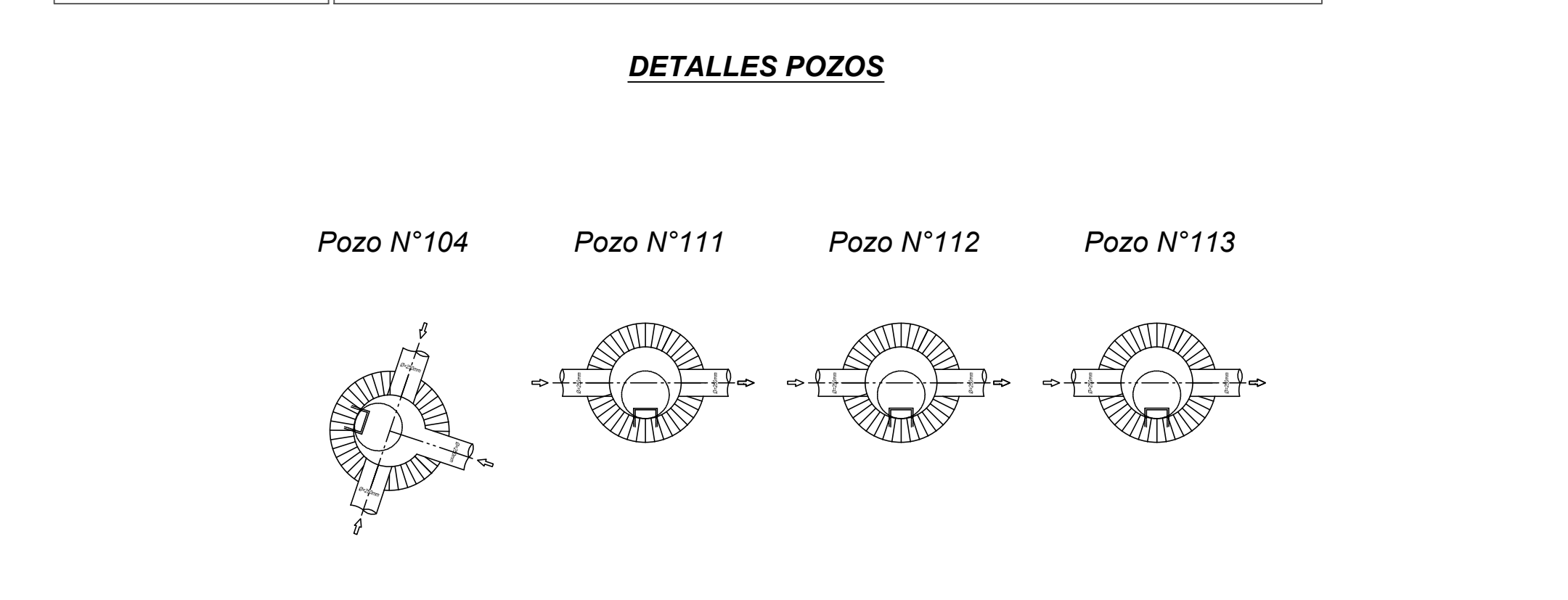
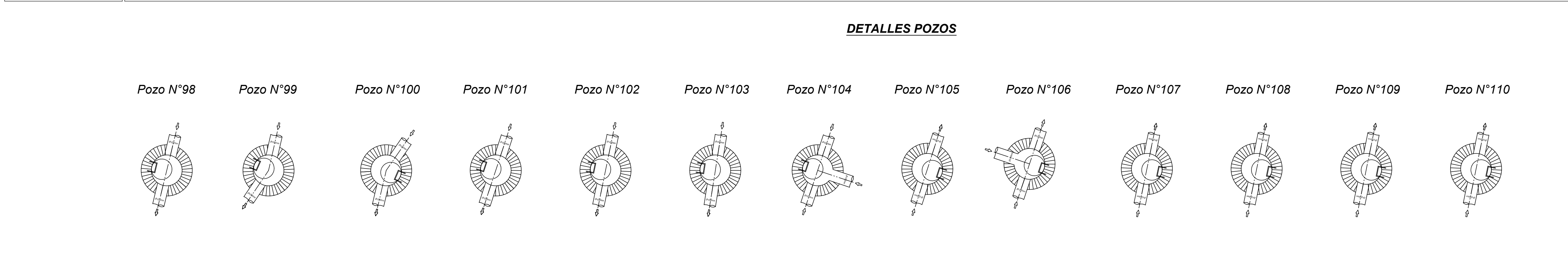
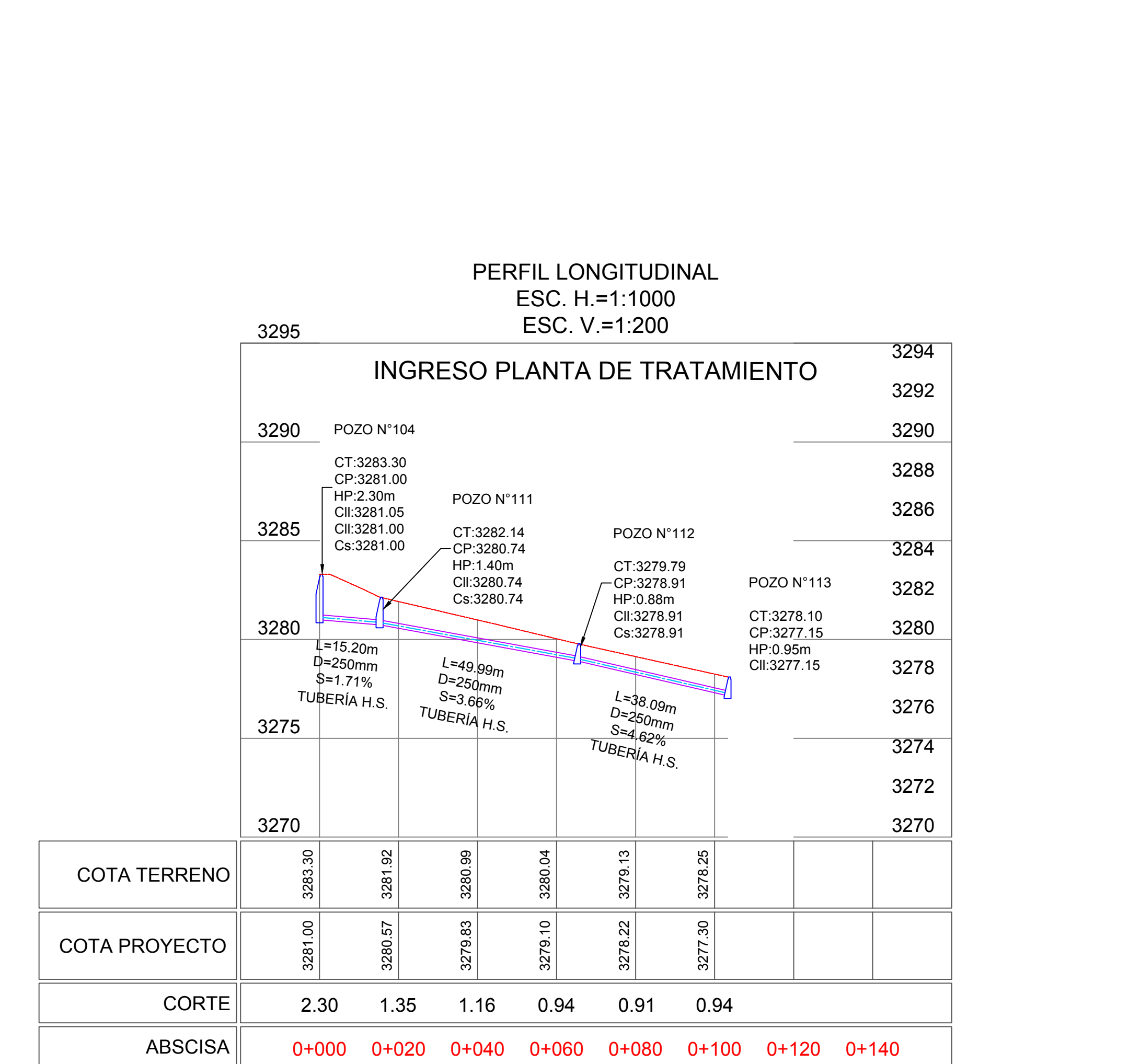
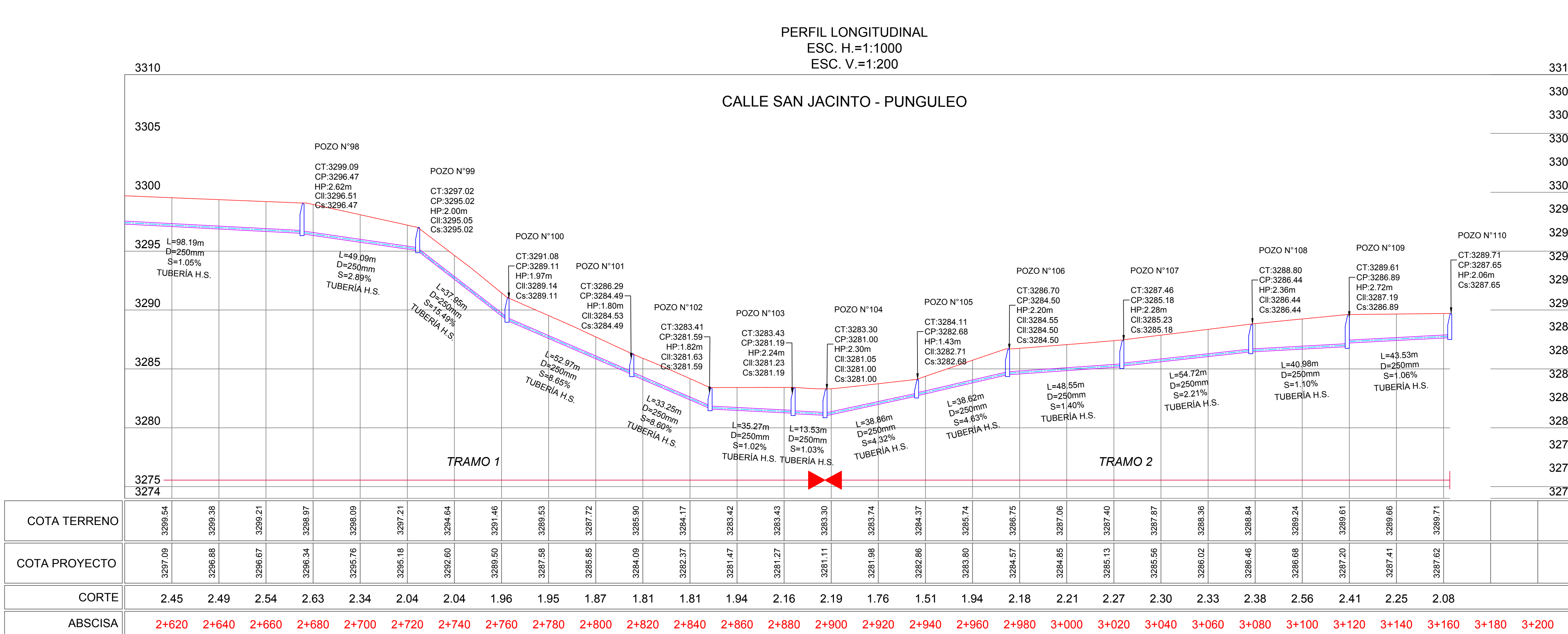
**DATUM:** WGS84 ZONA 17S

**COORDENADAS UTM:**  
759353.24 m E  
9850780.17 m S

**ALTURA REFERENCIAL:**  
3249 m



L	LONGITUD DEL TRAMO
D / Ø	DIÁMETRO DE TUBERÍA
S	GRADIENTE HIDRÁULICA
CT	COTA TERRENO
CP	COTA PROYECTO
CII	COTA DE LLEGADA
Cs	COTA DE SALIDA
HP	ALTURA DE POZO



### RED DE ALICANTARILLADO CHILCO LA ESPERANZA - SAN FRANCISCO

N°	ESTE (m)	NORTE (m)	C. TERRENO	C. LLEGADA	C. SALIDA
TRAMO 1					
90	758256.92	9851515.21	3312.94	3311.04	3310.98
91	758266.94	9851515.31	3312.37	3310.47	3310.42
92	758307.15	9851529.54	3309.61	3307.55	3307.51
93	758370.76	9851564.99	3303.99	3302.23	3302.19
94	758401.79	9851579.03	3301.89	3300.31	3300.27
95	758420.21	9851584.08	3301.42	3299.26	3299.22
96	758433.67	9851577.10	3300.61	3298.41	3298.35
97	758466.23	9851512.80	3299.89	3297.54	3297.54
98	758508.68	9851424.26	3299.09	3296.51	3296.47
99	758532.47	9851381.32	3297.02	3295.05	3295.02
100	758533.21	9851343.37	3297.08	3289.14	3289.11
101	758554.32	9851294.79	3289.29	3284.53	3284.50
102	758559.41	9851281.93	3283.41	3281.63	3281.59
103	758568.50	9851227.85	3283.43	3281.23	3281.19
104	758575.62	9851216.34	3283.30	3281.05	3281.00
TRAMO 2					
105	758717.86	9850997.19	3289.71	-	3287.45
106	758685.10	9851025.85	3289.61	3287.19	3286.89
107	758656.48	9851057.00	3288.80	3286.44	3286.44
108	758626.73	9851103.56	3287.46	3285.23	3285.18
109	758603.61	9851143.87	3286.70	3284.55	3284.50
110	758587.04	9851179.19	3284.11	3282.71	3282.68
114	758575.62	9851216.34	3283.30	3281.05	3281.00

### INGRESO A LA PLANTA DE TRATAMIENTO "CHILCO LA ESPERANZA"

N°	ESTE (m)	NORTE (m)	C. TERRENO	C. LLEGADA	C. SALIDA
104	758575.62	9851216.34	3283.30	3281.00	3281.00
111	758590.32	9851220.20	3282.14	3280.74	3280.74
112	758640.20	9851223.47	3279.79	3278.91	3278.91
113	758676.28	9851224.43	3278.10	3277.15	3277.15

**G.A.D. MUNICIPAL DEL CANTON TISALEO**

"CATASTRO DE LOS SISTEMAS DE ALICANTARILLADO A TRAVÉS DE LA GEOREFERENCIACIÓN Y DIGITALIZACIÓN PARA MEJORAR LA CALIDAD DE INFORMACIÓN SANITARIA DE LA PARROQUIA URBANA TISALEO Y CASERIOS SAN LUIS, SAN FRANCISCO, SAN JUAN, SAN DIEGO, ALDABANA, SANTA LUCÍA LIBERTAD, SANTA LUCÍA-CENTRO, SANTA LUCÍA ARRIBA, EL CALVARIO DEL CANTÓN TISALEO, PROVINCIA DE TUNGURAHUA"

CONTIENE: RED DE ALICANTARILLADO SANITARIO CHILCO LA ESPERANZA - SAN FRANCISCO BARRIO SAN JACINTO

PROVINCIA: TUNGURAHUA CANTÓN: TISALEO SECTOR: SAN FRANCISCO

UNIVERSIDAD TÉCNICA DE AMBATO FACULTAD DE INGENIERÍA CIVIL Y MECÁNICA CÁTEDRA DE INGENIERÍA CIVIL

FECHA: AGOSTO, 2022

ELABORADO POR: Eglis Tamara Bonilla Testa

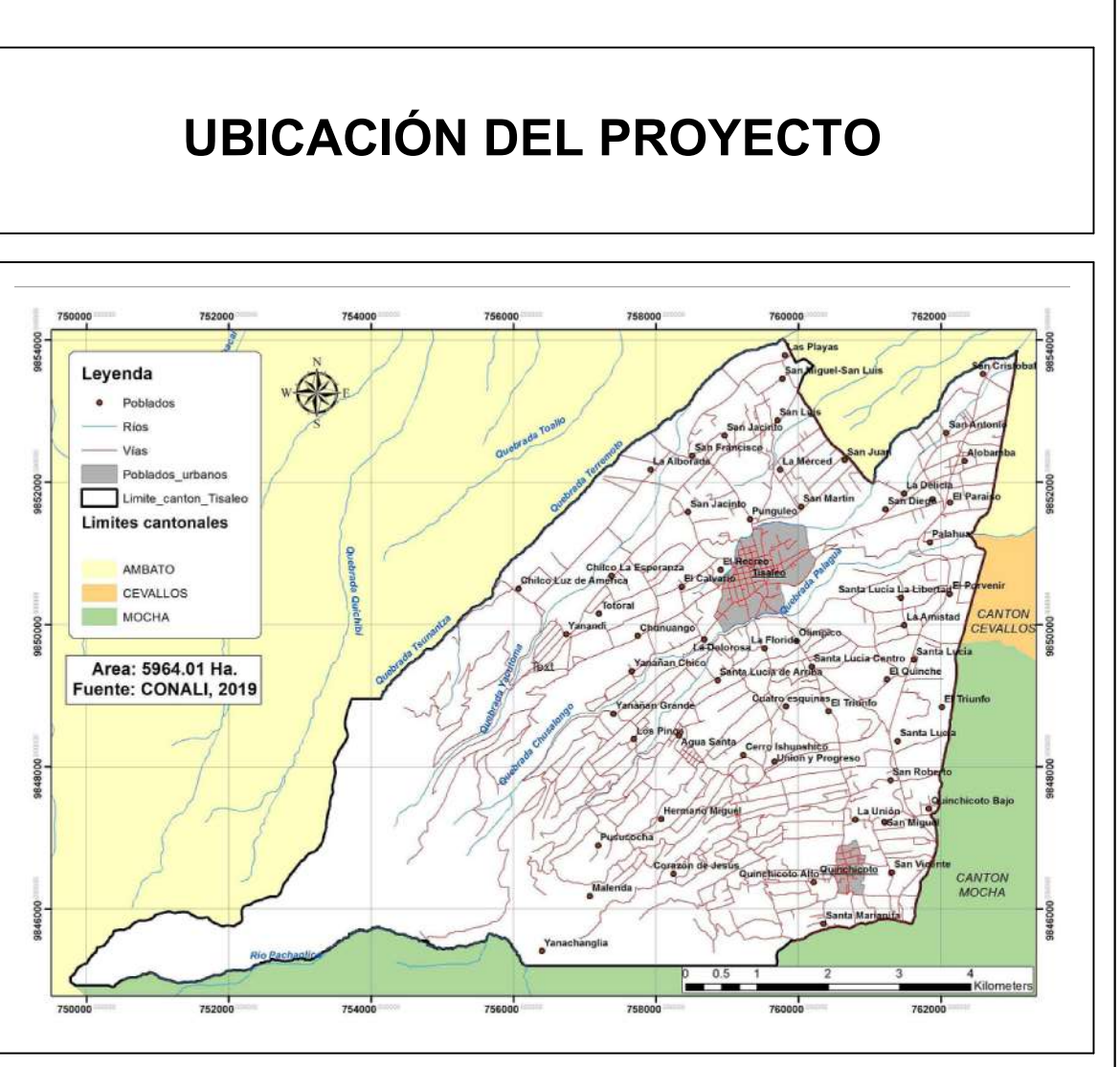
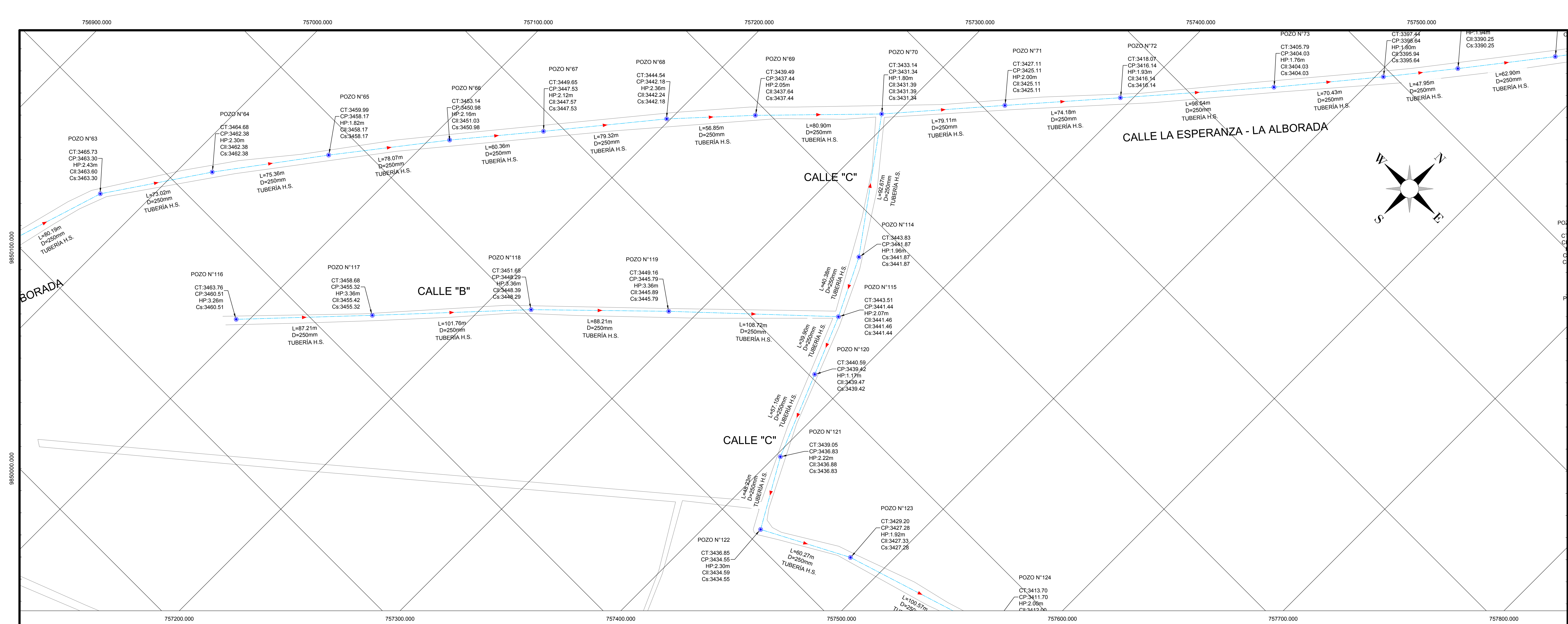
REVISADO POR: Ing. Gato Nuñez Tutor

APROBADO POR: Ing. Gato Nuñez Tutor

LÁMINA: LÁMINA - 09

TOTAL LÁMINAS: 24





### DATOS GEOGRÁFICOS

**DATUM:** WGS84 ZONA 17S

**COORDENADAS UTM:**  
759353.24 m E  
9850780.17 m S

**ALTURA REFERENCIAL:**  
3249 m

### SIMBOLOGÍA

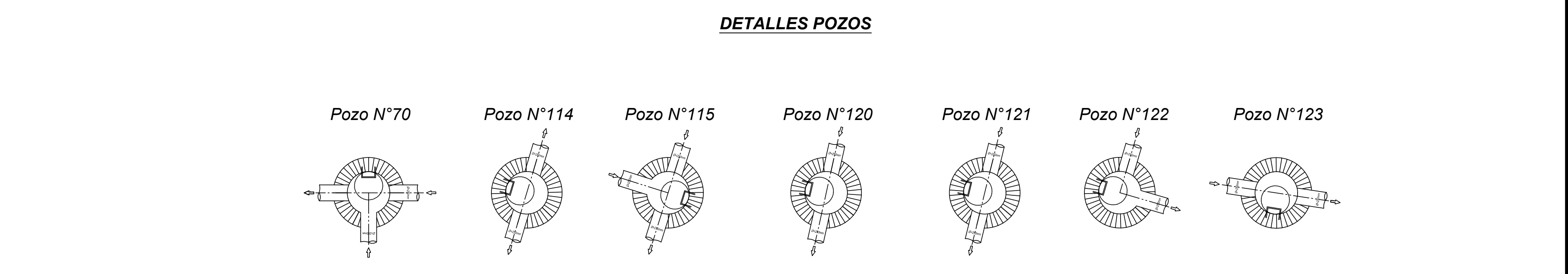
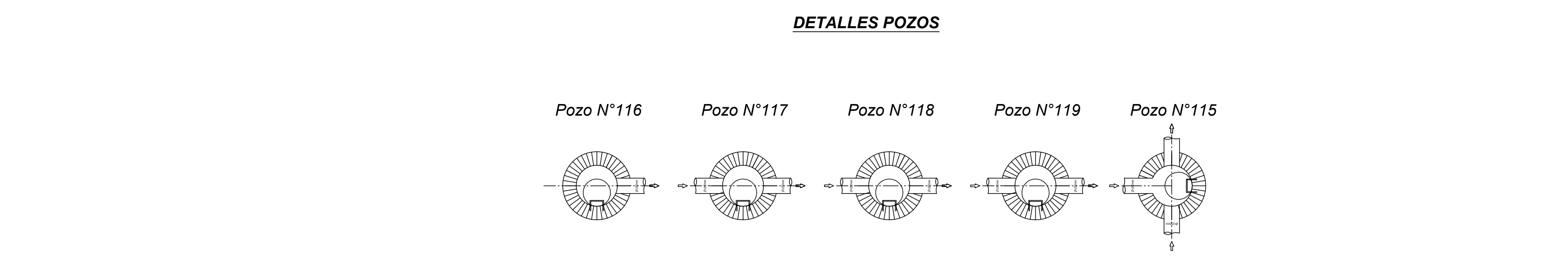
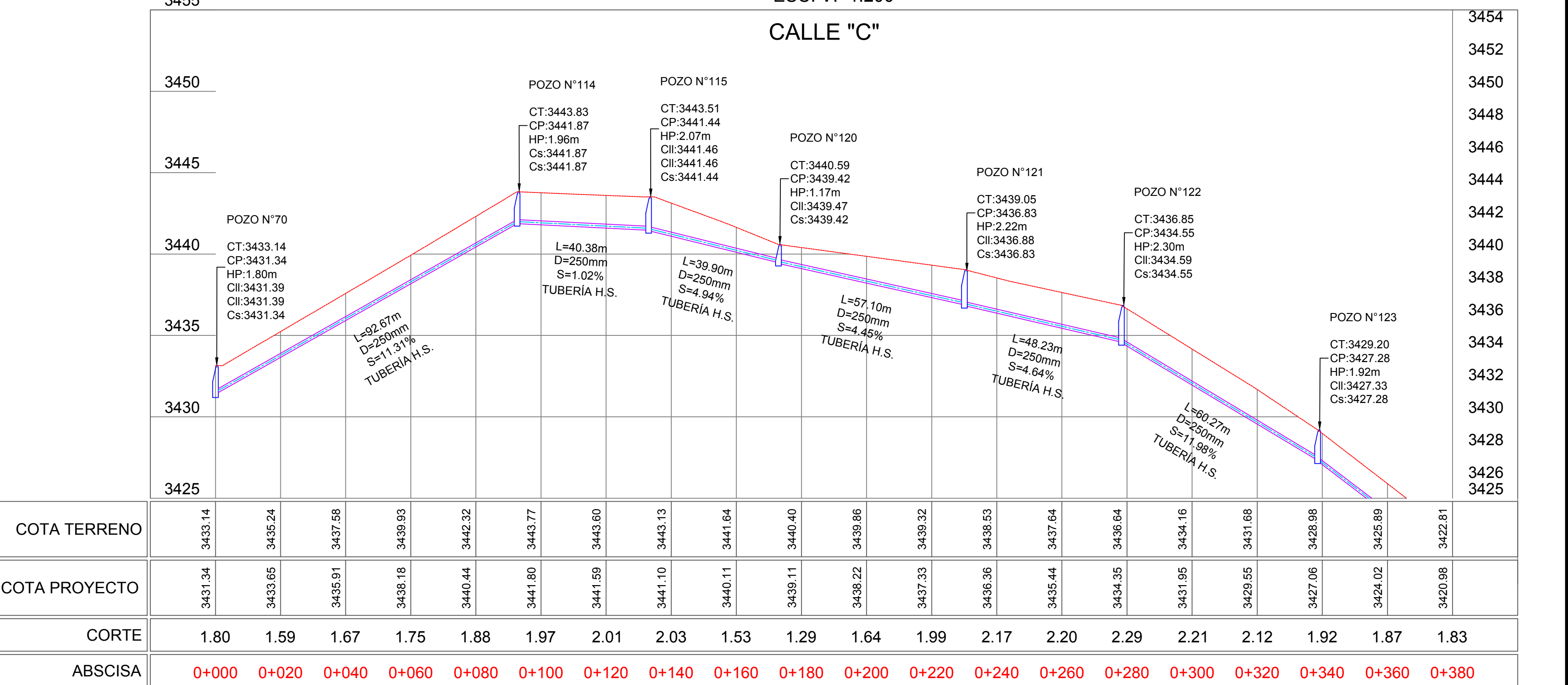
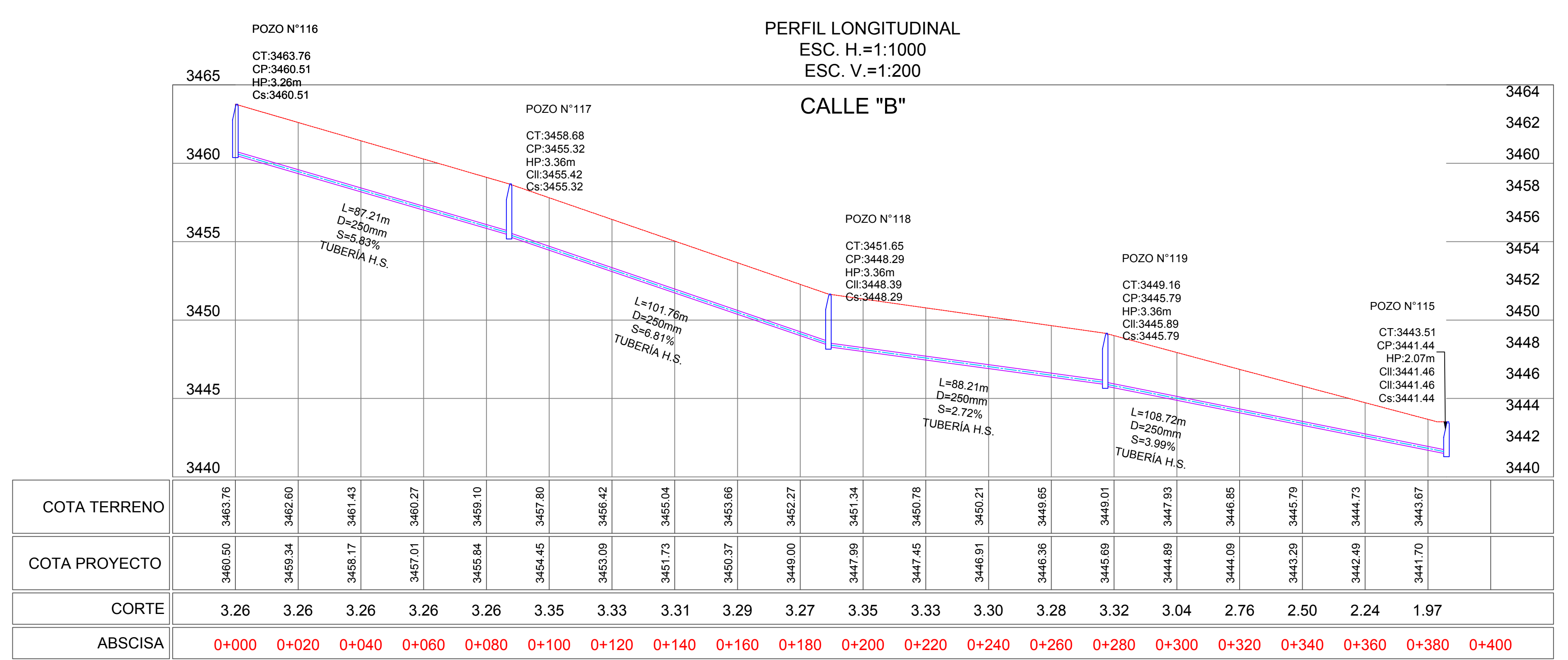
TUBERÍA H.S. D = 250mm

POZO DE REVISIÓN

PERFIL DEL TERRENO

CALLES / VÍAS

L LONGITUD DEL TRAMO  
D / Ø DIÁMETRO DE TUBERÍA  
S GRADIENTE HIDRÁULICA  
CT COTA TERRENO  
CP COTA PROYECTO  
CII COTA DE LLEGADA  
Cs COTA DE SALIDA  
HP ALTURA DE POZO



### RED DE ALICANTARILLADO CHILCO LA ESPERANZA - SAN FRANCISCO

N°	ESTE (m)	NORTE (m)	C. TERRENO (m)	C. LLEGADA (m)	C. SALIDA (m)
<b>CALLE "B"</b>					
116	757093.96	9850165.74	3463.76	-	3460.50
117	757153.81	9850229.18	3458.68	3455.42	3455.32
118	757223.13	9850303.67	3451.66	3448.40	3448.30
119	757286.28	9850385.27	3449.16	3445.90	3445.80
115	757365.53	9850439.67	3443.51	3441.46	3441.44
<b>CALLE "C"</b>					
70	757293.38	9850550.96	3433.14	3431.39	3431.34
114	757347.79	9850475.94	3443.83	3441.87	3441.87
115	757365.53	9850439.67	3443.51	3441.46	3441.44
120	757380.87	9850402.83	3440.59	3439.47	3439.42
121	757402.58	9850350.02	3439.05	3436.88	3436.83
<b>CALLE SAN MIGUEL - LA PRIMAVERA - SAN JACINTO</b>					
122	757426.55	9850308.16	3436.85	3434.59	3434.55
123	757476.90	9850336.36	3429.20	3427.53	3427.28
124	757576.79	9850366.49	3413.70	3412.00	3411.70
125	757666.55	9850394.95	3403.98	3402.16	3402.06
126	757751.30	9850441.92	3396.16	3393.34	3393.24
127	757805.13	9850476.02	3390.72	3389.02	3388.92
128	757873.74	9850487.73	3383.16	3381.41	3381.21
129	757921.39	9850519.04	3378.05	3375.81	3375.76
130	757993.95	9850557.38	3369.82	3367.62	3367.56
131	758056.64	9850590.82	3362.26	3360.12	3360.06
132	758101.55	9850635.60	3354.69	3352.51	3352.46
133	758136.13	9850686.83	3346.76	3346.80	3346.70
134	758168.05	9850732.89	3342.38	3340.61	3340.56
135	758228.70	9850798.50	3333.02	3330.97	3330.97
136	758300.91	9850837.10	3322.47	3320.50	3320.45
137	758341.13	9850859.19	3319.23	3317.19	3317.13
138	758371.55	9850899.53	3313.53	3311.68	3311.63
139	758410.58	9850948.35	3307.75	3305.92	3305.87
140	758455.50	9850990.65	3302.79	3300.59	3300.56
141	758497.75	9851035.22	3300.03	3298.07	3298.03
142	758520.01	9851083.85	3296.59	3294.41	3294.38
143	758567.41	9851115.96	3290.26	3288.21	3288.18
109	758602.67	9851143.87	3286.70	3284.55	3284.50

### G.A.D. MUNICIPAL DEL CANTÓN TISALEO

"CATASTRO DE LOS SISTEMAS DE ALICANTARILLADO A TRAVÉS DE LA GEOREFERENCIACIÓN Y DIGITALIZACIÓN PARA MEJORAR LA CALIDAD DE INFORMACIÓN SANITARIA DE LA PARROQUIA URBANA TISALEO Y CASERIOS SAN LUIS, SAN FRANCISCO, SAN JUAN, SAN DIEGO, ALBAMA, SANTA LUCÍA LIBERTAD, SANTA LUCÍA-CENTRO, SANTA LUCÍA ARRIBA, EL CALVARIO DEL CANTÓN TISALEO, PROVINCIA DE TUNGURAHUA"

CONTIENE: RED DE ALICANTARILLADO SANITARIO CHILCO LA ESPERANZA - SAN FRANCISCO BARRIO CHILCO LA ESPERANZA

PROVINCIA: TUNGURAHUA CANTÓN: TISALEO SECTOR: CHILCO LA ESPERANZA

UNIVERSIDAD TÉCNICA DE AMBATO FACULTAD DE INGENIERÍA CIVIL Y MECÁNICA CÁTEDRA DE INGENIERÍA CIVIL

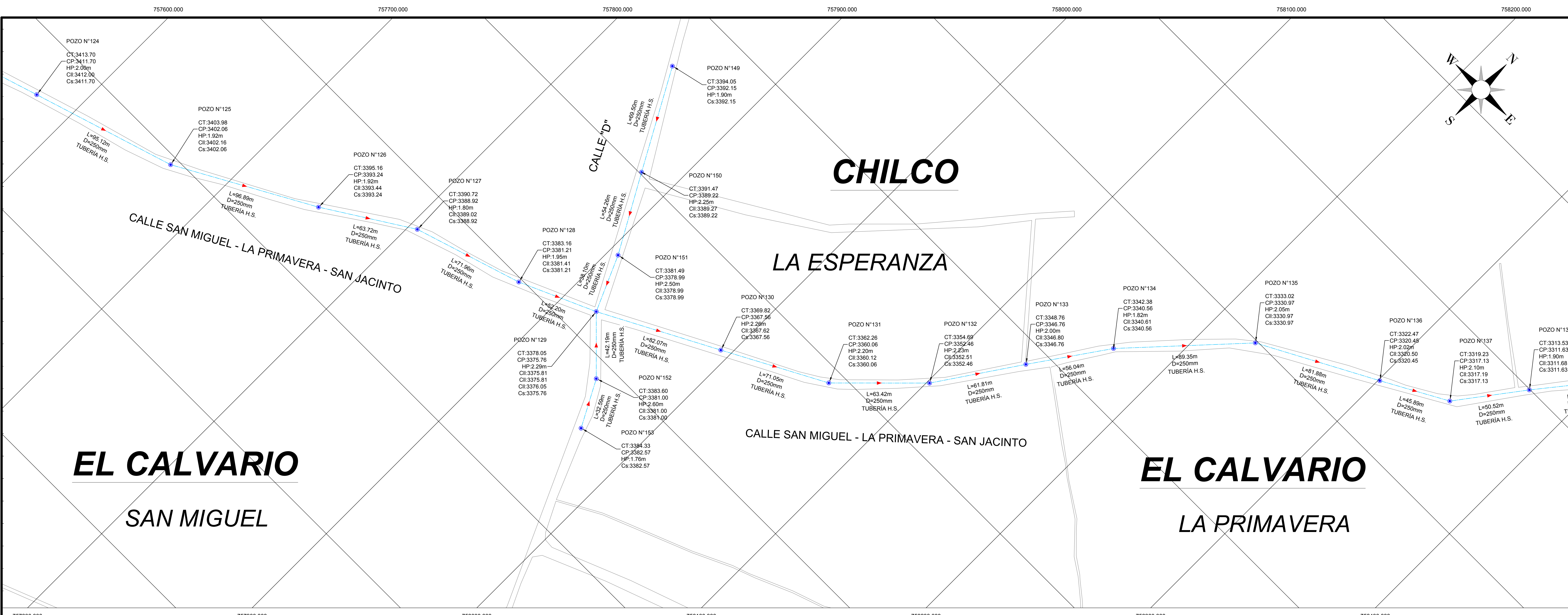
FECHA: AGOSTO, 2022

ELABORADO POR: REVISADO POR: APROBADO POR:

Egita Tamia Bonita Testa Ing. Galo Núñez Tutor Ing. Galo Núñez Tutor

ESCALA: 1:1000 LÁMINA: 10 TOTAL LÁMINAS: 24





### UBICACIÓN DEL PROYECTO

### DATOS GEOGRÁFICOS

**DATUM:** WGS84 ZONA 17S

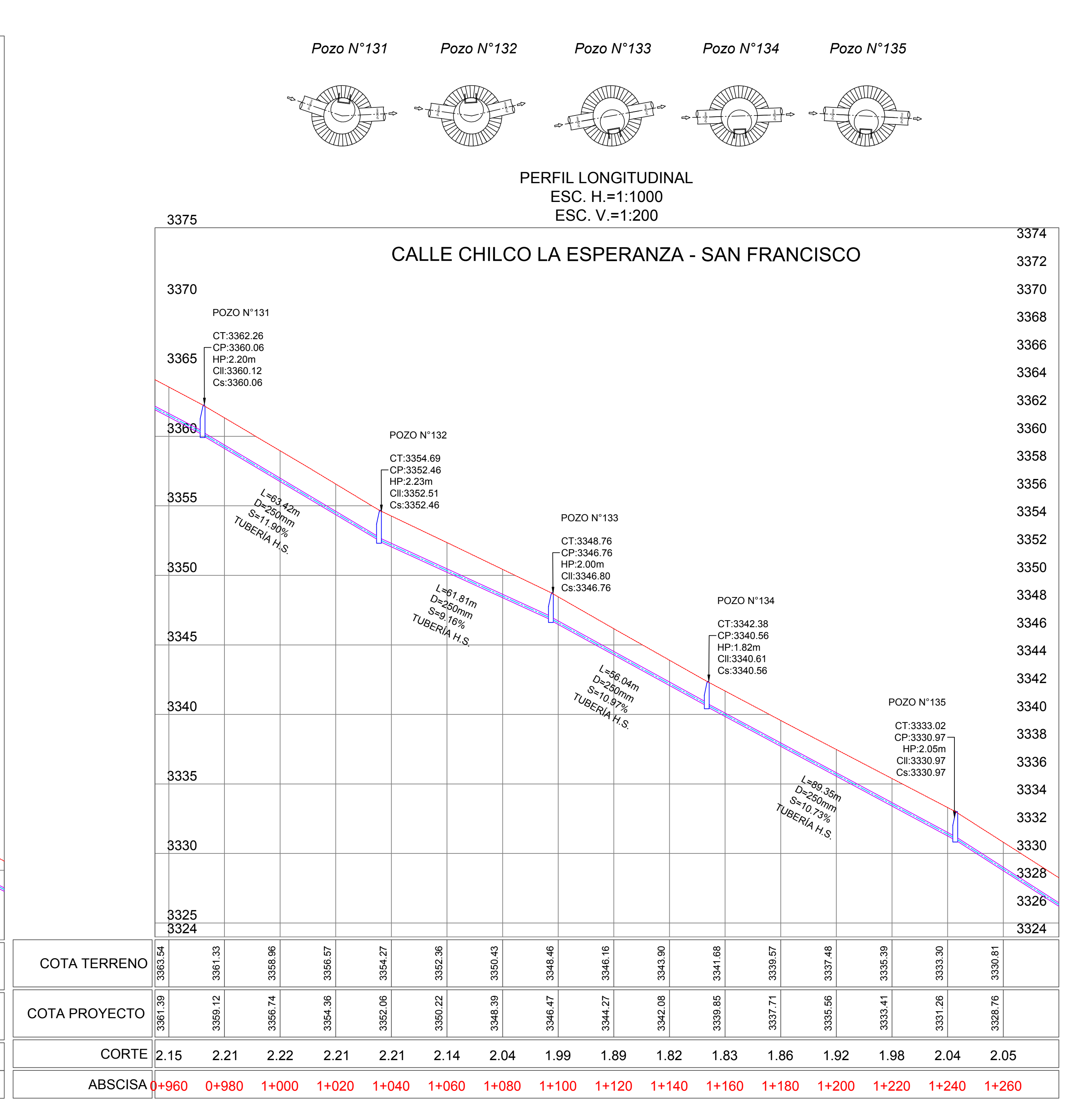
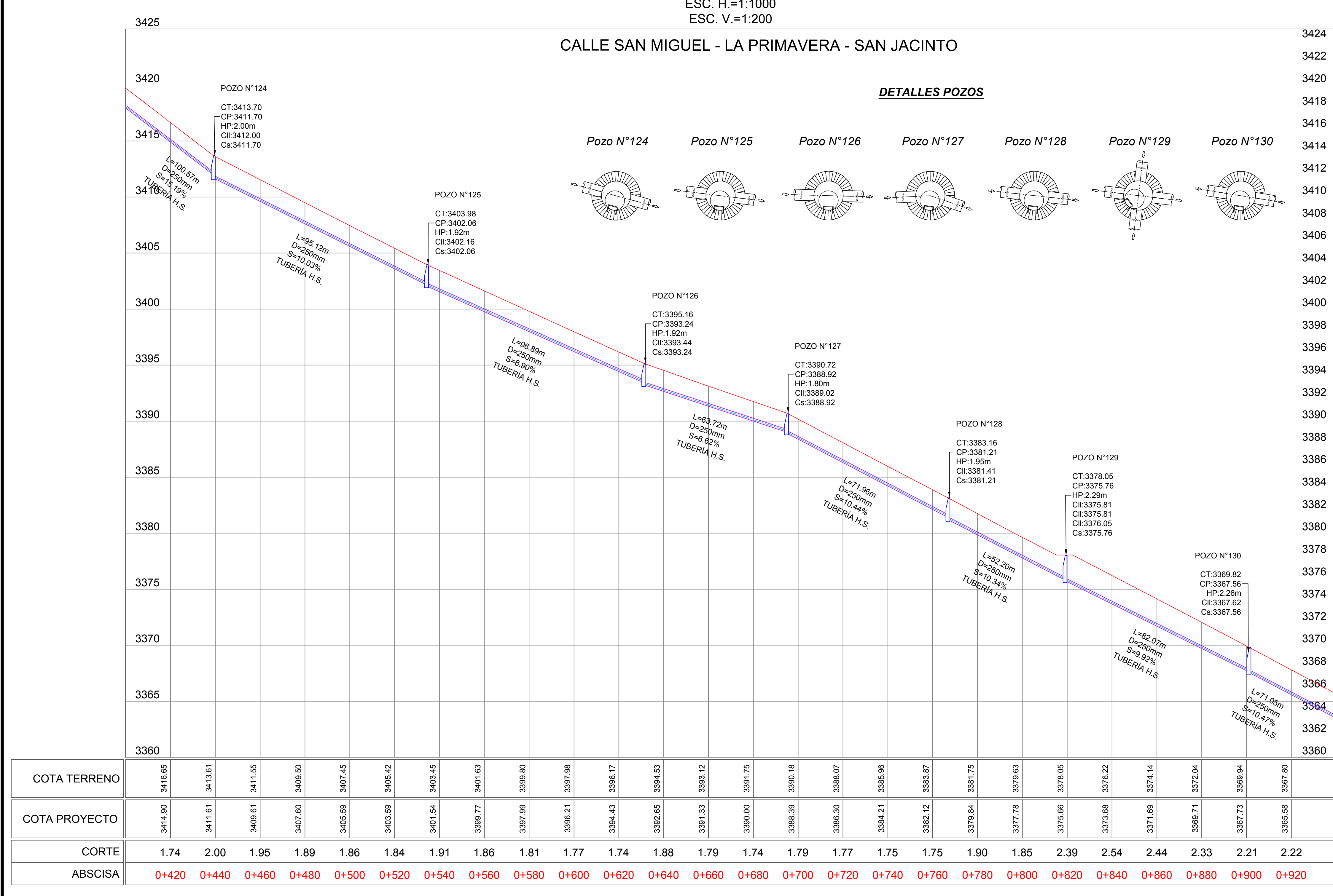
**COORDENADAS UTM:**  
759353.24 m E  
9850780.17 m S

**ALTURA REFERENCIAL:** 3249 m

### SIMBOLOGÍA

- TUBERÍA H.S. D = 250mm
- POZO DE REVISIÓN
- PERFIL DEL TERRENO
- CALLES / VÍAS

757800.000 757900.000 758000.000 758100.000 758200.000 758300.000 758400.000 758500.000



- L LONGITUD DEL TRAMO
- D / Ø DIÁMETRO DE TUBERÍA
- S GRADIENTE HIDRÁULICA
- CT COTA TERRENO
- CP COTA PROYECTO
- CII COTA DE LLEGADA
- Cs COTA DE SALIDA
- HP ALTURA DE POZO

### RED DE ALCANTARILLADO CHILCO LA ESPERANZA - SAN FRANCISCO

N°	ESTE (m)	NORTE (m)	C. TERRENO (m)	C. LLEGADA	C. SALIDA
<b>CALLE "B"</b>					
116	757093.96	9850165.74	3463.76	-	3460.50
117	757153.81	9850229.18	3458.68	3455.42	3452.32
118	757223.13	9850303.67	3451.66	3448.40	3446.30
119	757286.28	9850365.27	3443.16	3445.50	3443.80
115	757365.53	9850439.67	3443.51	3441.46	3438.83
<b>CALLE "C"</b>					
70	757293.38	9850550.96	3433.14	3431.39	3431.34
114	757347.79	9850475.94	3443.83	3441.87	3441.87
115	757365.53	9850439.67	3443.51	3441.46	3441.44
120	757380.87	9850402.83	3440.59	3439.47	3439.42
121	757402.58	9850350.02	3439.05	3436.88	3436.83
<b>CALLE SAN MIGUEL - LA PRIMAVERA - SAN JACINTO</b>					
122	757426.55	9850308.16	3436.85	3434.59	3434.55
123	757479.90	9850336.19	3429.20	3427.33	3427.28
124	757575.79	9850366.48	3413.70	3412.00	3411.70
125	757666.55	9850394.95	3403.98	3402.16	3402.06
126	757751.30	9850441.92	3395.16	3393.34	3393.24
127	757825.13	9850476.02	3390.72	3389.02	3388.92
128	757879.74	9850497.73	3383.16	3381.41	3381.21
129	757921.39	9850519.04	3378.05	3375.81	3375.76
130	757993.95	9850557.38	3369.82	3367.62	3367.56
131	758056.64	9850590.82	3362.26	3360.12	3360.06
132	758101.55	9850635.60	3354.69	3352.51	3352.46
133	758136.13	9850669.83	3348.76	3346.60	3346.76
134	758168.05	9850732.69	3342.38	3340.61	3340.56
135	758228.70	9850798.50	3333.02	3330.97	3330.97
136	758300.91	9850837.10	3322.47	3320.50	3320.45
137	758341.13	9850859.19	3319.23	3317.19	3317.13
138	758371.55	9850899.53	3313.53	3311.68	3311.63
139	758410.58	9850948.35	3307.75	3305.92	3305.87
140	758455.50	9850990.65	3302.79	3300.59	3300.56
141	758497.75	9851035.22	3300.03	3298.07	3298.03
142	758520.01	9851063.85	3296.59	3294.41	3294.38
143	758567.41	9851115.96	3290.26	3288.21	3288.18
109	758602.87	9851143.87	3286.70	3284.55	3284.50

### G.A.D. MUNICIPAL DEL CANTON TISALEO

"CATASTRO DE LOS SISTEMAS DE ALCANTARILLADO A TRAVÉS DE LA GEOREFERENCIACIÓN Y DIGITALIZACIÓN PARA MEJORAR LA CALIDAD DE INFORMACIÓN SANITARIA DE LA PARROQUIA URBANA TISALEO Y CASERIOS SAN LUIS, SAN FRANCISCO, SAN JUAN, SAN DIEGO, ALDEBARA, SANTA LUCÍA-LA LIBERTAD, SANTA LUCÍA-CENTRO, SANTA LUCÍA ARRIBA, EL CALVARIO DEL CANTÓN TISALEO, PROVINCIA DE TUNGURAHUA"

CONTENIDO: RED DE ALCANTARILLADO SANITARIO CHILCO LA ESPERANZA - SAN FRANCISCO (BARRIO) - CANTÓN TISALEO

PROVINCIA: TUNGURAHUA CANTÓN: TISALEO SECTOR: CHILCO LA ESPERANZA

UNIVERSIDAD TÉCNICA DE AMBATO FACULTAD DE INGENIERÍA CIVIL Y MECÁNICA CÁTEDRA DE INGENIERÍA SANITARIA

FECHA: AGOSTO, 2022

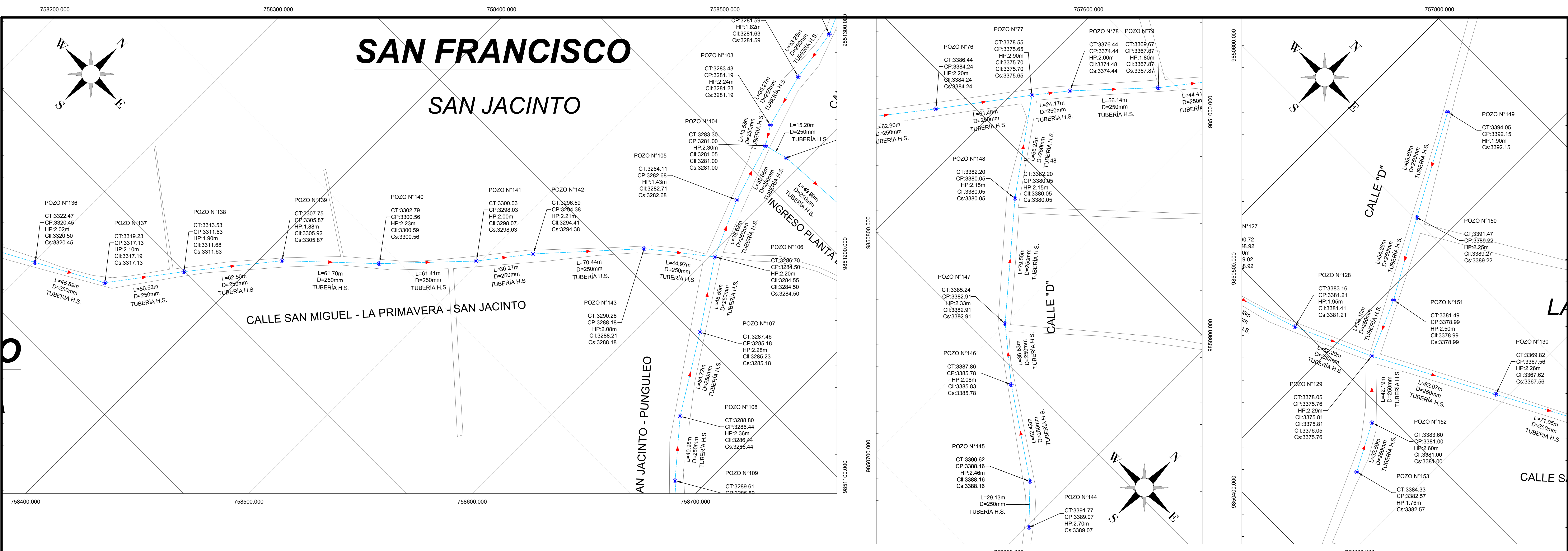
ELABORADO POR: Eglis Tamara Bonilla Testa REVISADO POR: Ing. Gato Nuñez Tutor APROBADO POR: Ing. Gato Nuñez Tutor

ESCALA: 1:1000 LÁMINA: 11 TOTAL LÁMINAS: 24



# SAN FRANCISCO

## SAN JACINTO



### UBICACIÓN DEL PROYECTO

### DATOS GEOGRÁFICOS

DATUM: WGS84 ZONA 17S

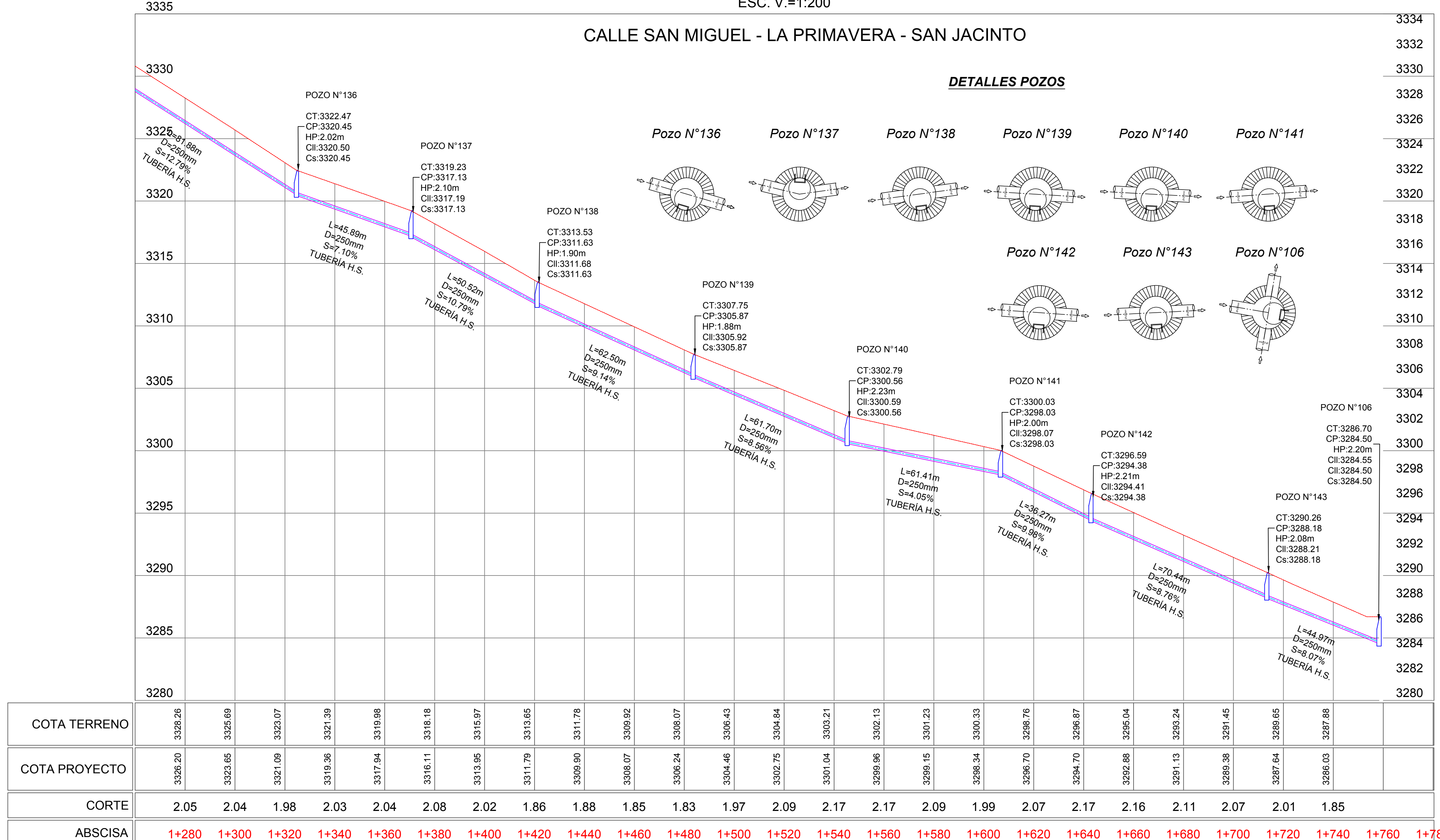
COORDENADAS UTM:  
759353.24 m E  
9850780.17 m S

ALTURA REFERENCIAL:  
3249 m

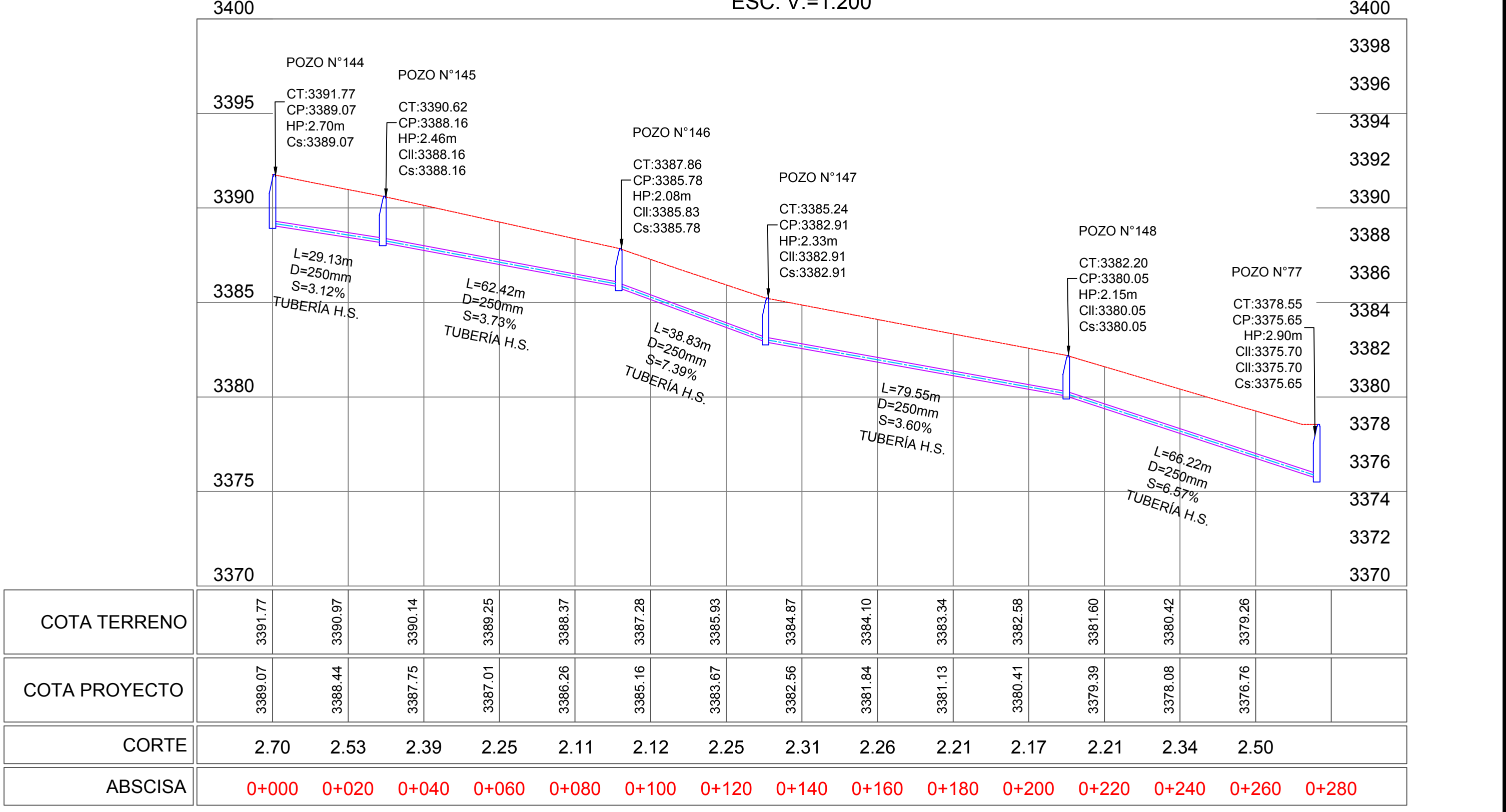
### SIMBOLOGÍA

- TUBERÍA H.S. D = 250mm
- POZO DE REVISIÓN
- PERFIL DEL TERRENO
- CALLES / VÍAS

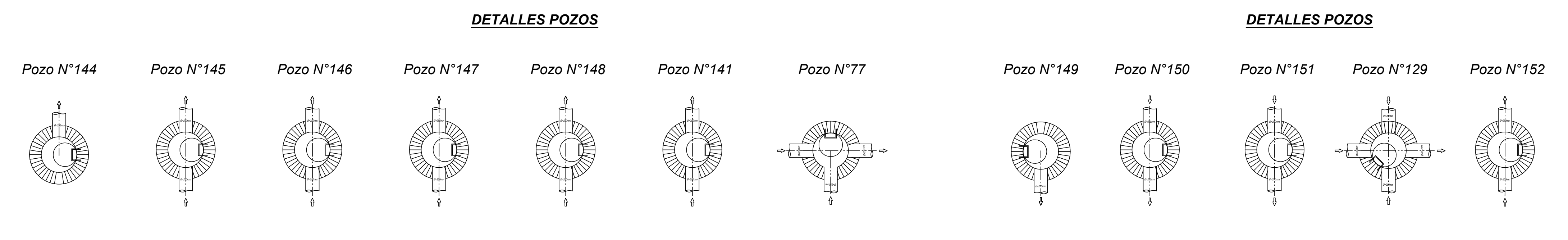
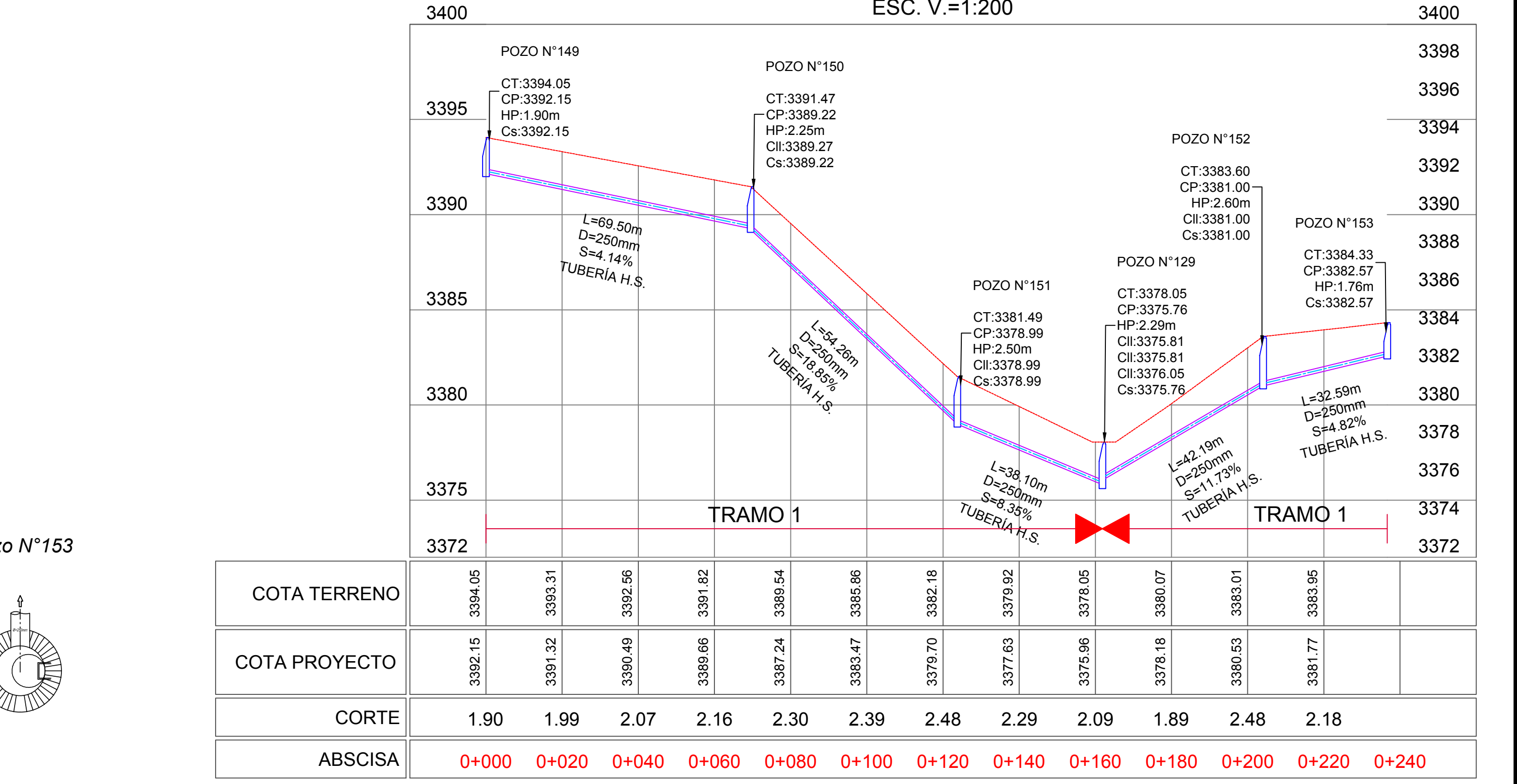
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ESC. H.=1:1000  
ESC. V.=1:200



PERFIL LONGITUDINAL  
ESC. H.=1:1000  
ESC. V.=1:200



PERFIL LONGITUDINAL  
ESC. H.=1:1000  
ESC. V.=1:200



### RED DE ALcantarillado Chilco La Esperanza - San Francisco

N°	ESTE (m)	NORTE (m)	C. TERRENO	C. LLEGADA	C. SALIDA
70	757293.38	9850550.96	3433.14	3431.39	3431.34
114	757347.79	9850475.94	3443.83	3441.87	3441.87
115	757365.53	9850439.67	3443.51	3441.46	3441.44
120	757380.87	9850402.83	3440.59	3439.47	3439.42
121	757402.58	9850350.02	3439.05	3436.88	3436.83
122	757426.55	9850308.16	3436.85	3434.59	3434.55
123	757479.90	9850336.18	3429.20	3427.33	3427.28
124	757575.79	9850366.49	3413.70	3412.00	3411.70
125	757695.55	9850394.05	3403.98	3402.16	3402.06
126	757751.30	9850441.92	3395.16	3393.34	3393.24
127	757805.13	9850476.02	3390.72	3389.02	3388.92
128	757873.74	9850497.73	3383.16	3381.41	3381.21
129	757921.39	9850519.04	3378.05	3375.81	3375.76
130	757993.65	9850557.38	3369.62	3367.62	3367.56
131	758056.64	9850590.62	3362.26	3360.12	3360.06
132	758101.55	9850635.60	3354.69	3352.51	3352.46
133	758136.13	9850686.83	3346.76	3346.80	3346.76
134	758168.05	9850732.89	3342.38	3340.61	3340.56
135	758225.70	9850789.50	3333.02	3330.97	3330.91
136	758300.91	9850837.10	3322.47	3320.50	3320.45
137	758341.13	9850859.19	3319.23	3317.19	3317.13
138	758371.55	9850899.53	3313.53	3311.68	3311.63
139	758410.58	9850948.35	3307.75	3305.82	3305.67
140	758455.50	9850990.65	3301.79	3300.59	3300.56
141	758497.75	9851035.22	3300.03	3299.07	3299.03
142	758520.01	9851063.85	3296.59	3294.41	3294.36
143	758567.41	9851115.96	3290.26	3288.21	3288.18
149	758602.67	9851143.87	3286.70	3284.55	3284.50

### G.A.D. MUNICIPAL DEL CANTON TISALEO

REGISTRO DE LOS SISTEMAS DE ALcantarillado A TRAVÉS DE LA GEOINFORMACIÓN Y DIGITALIZACIÓN PARA MEJORAR LA CALIDAD DE INFORMACIÓN SANITARIA DE LA PARROQUIA URBANA TISALEO Y CASERIOS SAN LUIS, SAN FRANCISCO, SAN JUAN, SAN DIEGO, ALBAMA, SANTA LUCÍA LIBERTAD, SANTA LUCÍA-CENTRO, SANTA LUCÍA ARRIBA, EL CALVARIO DEL CANTÓN TISALEO, PROVINCIA DE TUNGURAHUA

CONTENIDO: RED DE ALcantarillado SANITARIO CHILCO LA ESPERANZA - SAN FRANCISCO - BARRIO SAN JACINTO - CHILCO LA ESPERANZA

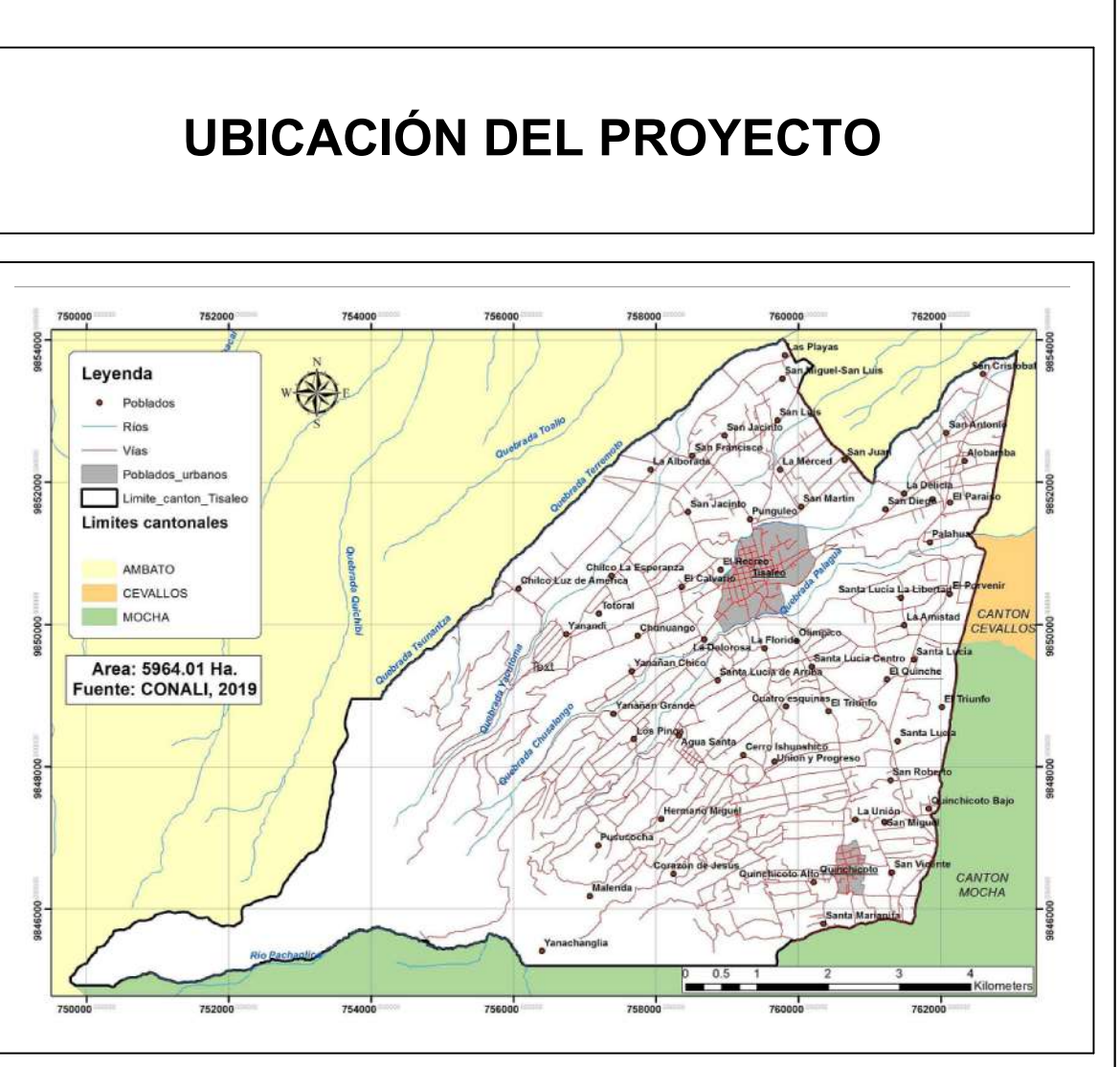
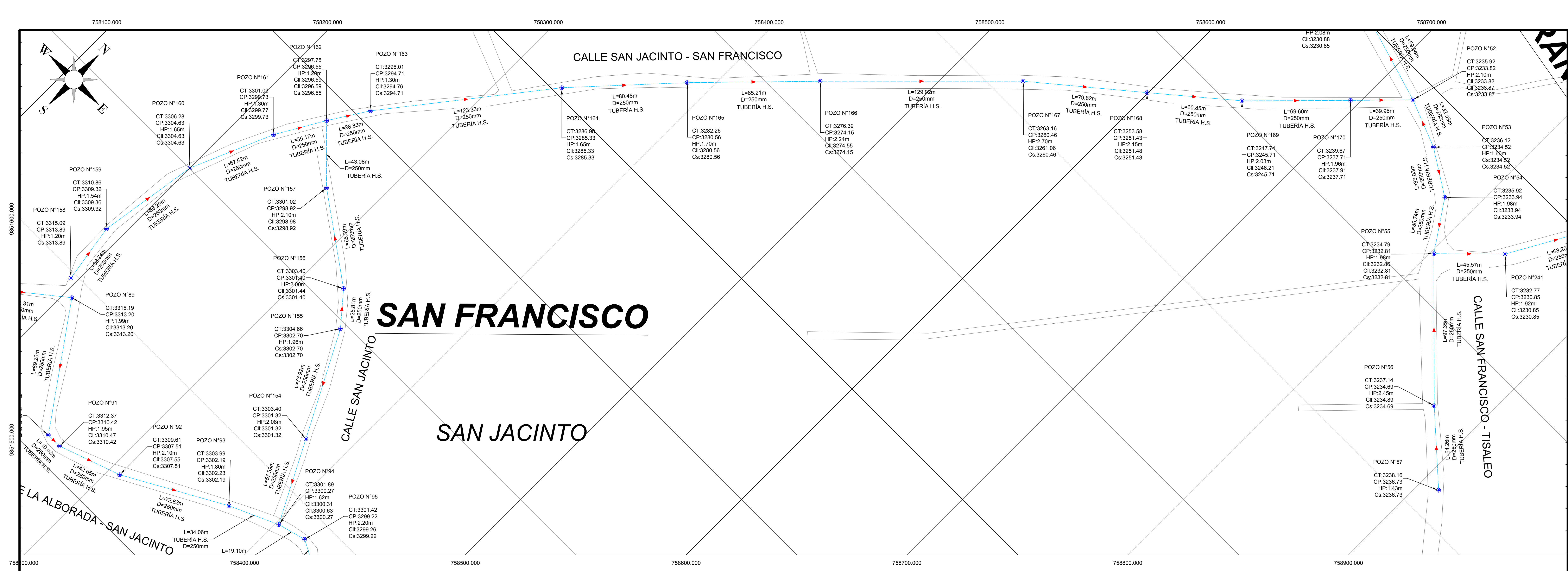
PROVINCIA: TUNGURAHUA CANTÓN: TISALEO SECTOR: SAN FRANCISCO-CHILCO

FECHA: AGOSTO, 2022

ELABORADO POR: Egda. Tania Bonita Testa REVISADO POR: Ing. Gato Nuñez Tutor APROBADO POR: Ing. Gato Nuñez Tutor

LÁMINA: 12 TOTAL LÁMINAS: 24





### DATOS GEOGRÁFICOS

**DATUM:** WGS84 ZONA 17S

**COORDENADAS UTM:**  
759353.24 m E  
9850780.17 m S

**ALTURA REFERENCIAL:**  
3249 m

### SIMBOLOGÍA

TUBERÍA H.S. D = 250mm

POZO DE REVISIÓN

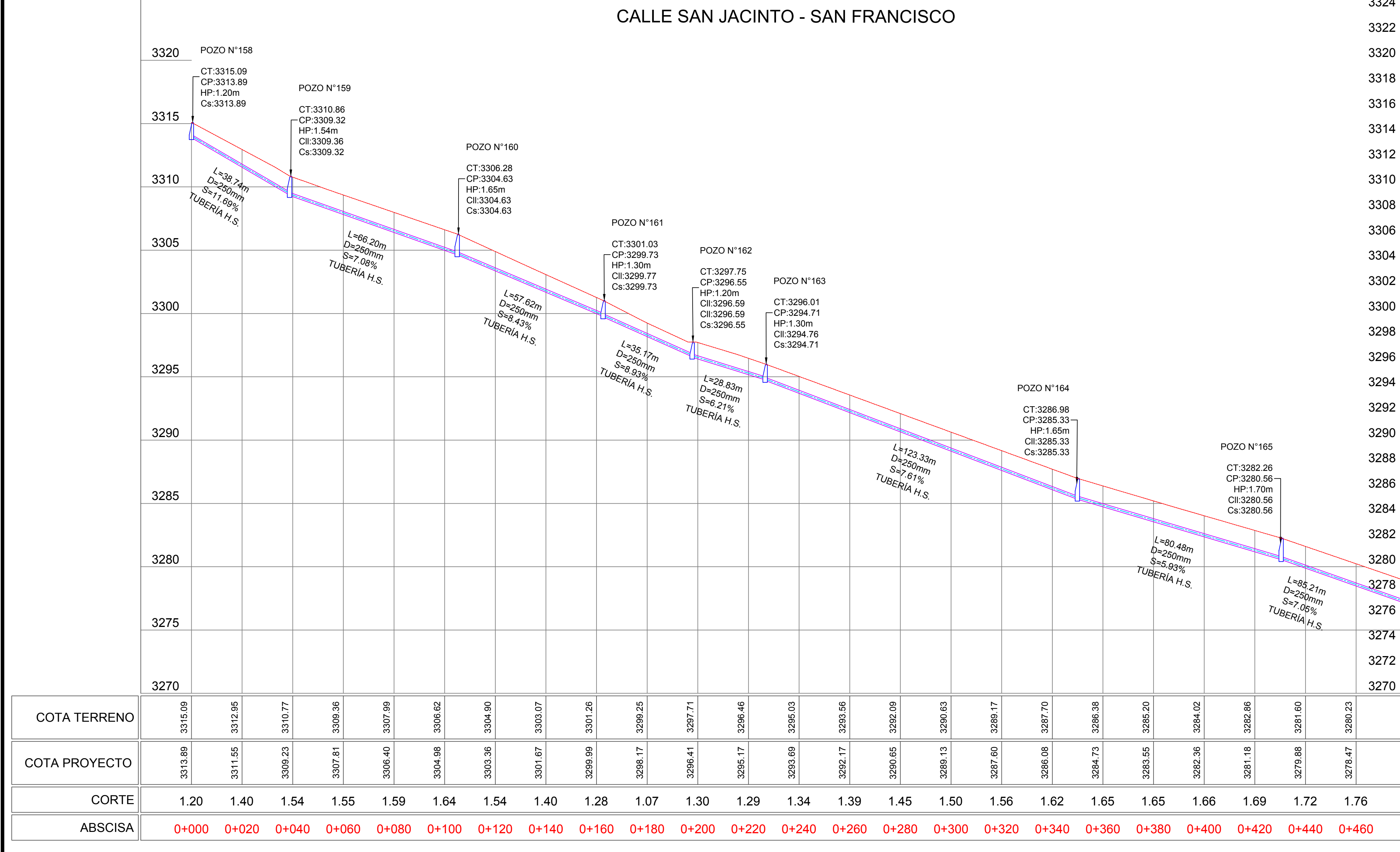
PERFIL DEL TERRENO

CALLES / VÍAS

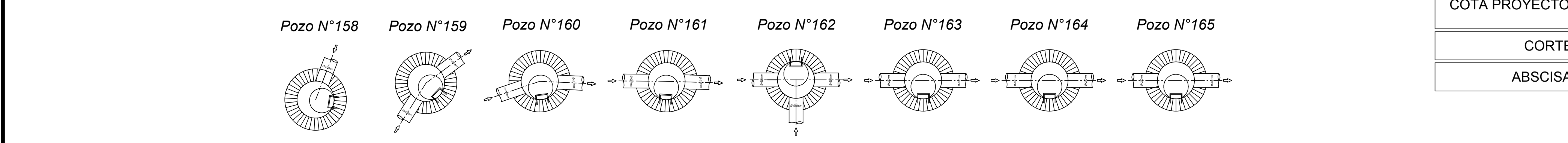
L LONGITUD DEL TRAMO  
D / Ø DIÁMETRO DE TUBERÍA  
S GRADIENTE HIDRÁULICA  
CT COTA TERRENO  
CP COTA PROYECTO  
CII COTA DE LLEGADA  
Cs COTA DE SALIDA  
HP ALTURA DE POZO

RED DE ALCANTARILLADO CHILCO LA ESPERANZA - SAN FRANCISCO					
N°	ESTE (m)	NORTE (m)	C. TERRENO (m)	C. LLEGADA (m)	C. SALIDA (m)
<b>TRAMO 1</b>					
154	758341.04	9851695.67	3304.66	3302.70	3302.70
155	758375.27	9851630.15	3303.40	3301.32	3301.32
94	758401.79	9851579.03	3301.69	3300.63	3300.59
<b>TRAMO 2</b>					
154	758341.04	9851695.67	3304.66	3302.70	3302.70
156	758324.25	9851715.26	3303.40	3301.44	3301.40
157	758270.95	9851753.15	3301.02	3298.98	3298.92
162	758240.53	9851783.84	3297.75	3296.59	3296.55
<b>RED DE ALCANTARILLADO CHILCO - SAN FRANCISCO - SAN LUIS</b>					
N°	ESTE (m)	NORTE (m)	C. TERRENO (m)	C. LLEGADA (m)	C. SALIDA (m)
<b>CALLE LA ALBORADA - SAN JACINTO</b>					
158	758196.04	9851596.64	3315.09		3313.89
159	758189.87	9851534.89	3310.65	3309.36	3309.32
160	758200.12	9851700.29	3306.28	3304.63	3304.63
161	758222.87	9851753.23	3301.03	3299.77	3299.73
162	758240.53	9851783.84	3297.75	3296.59	3296.55
163	758256.00	9851807.97	3295.01	3294.78	3294.71
164	758332.12	9851905.01	3286.98	3285.33	3285.33
165	758386.67	9851964.18	3282.26	3280.56	3280.56
166	758446.31	9852025.05	3276.39	3274.55	3274.15
167	758538.16	9852116.93	3263.15	3261.06	3260.46
168	758599.53	9852167.96	3253.58	3251.48	3251.43
169	758648.10	9852207.14	3247.74	3246.21	3245.71
170	758695.15	9852256.52	3239.67	3237.91	3237.71
52	758723.11	9852285.07	3235.92	3233.87	3233.82

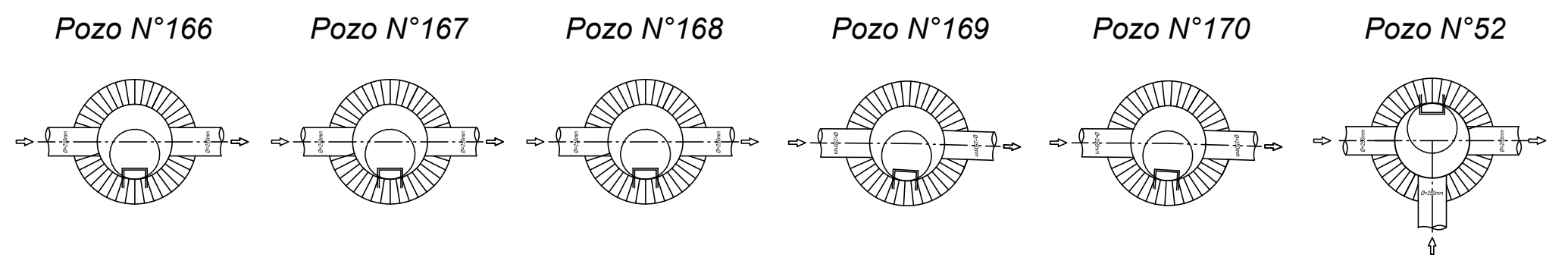
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ESC. H.=1:1000  
ESC. V.=1:200



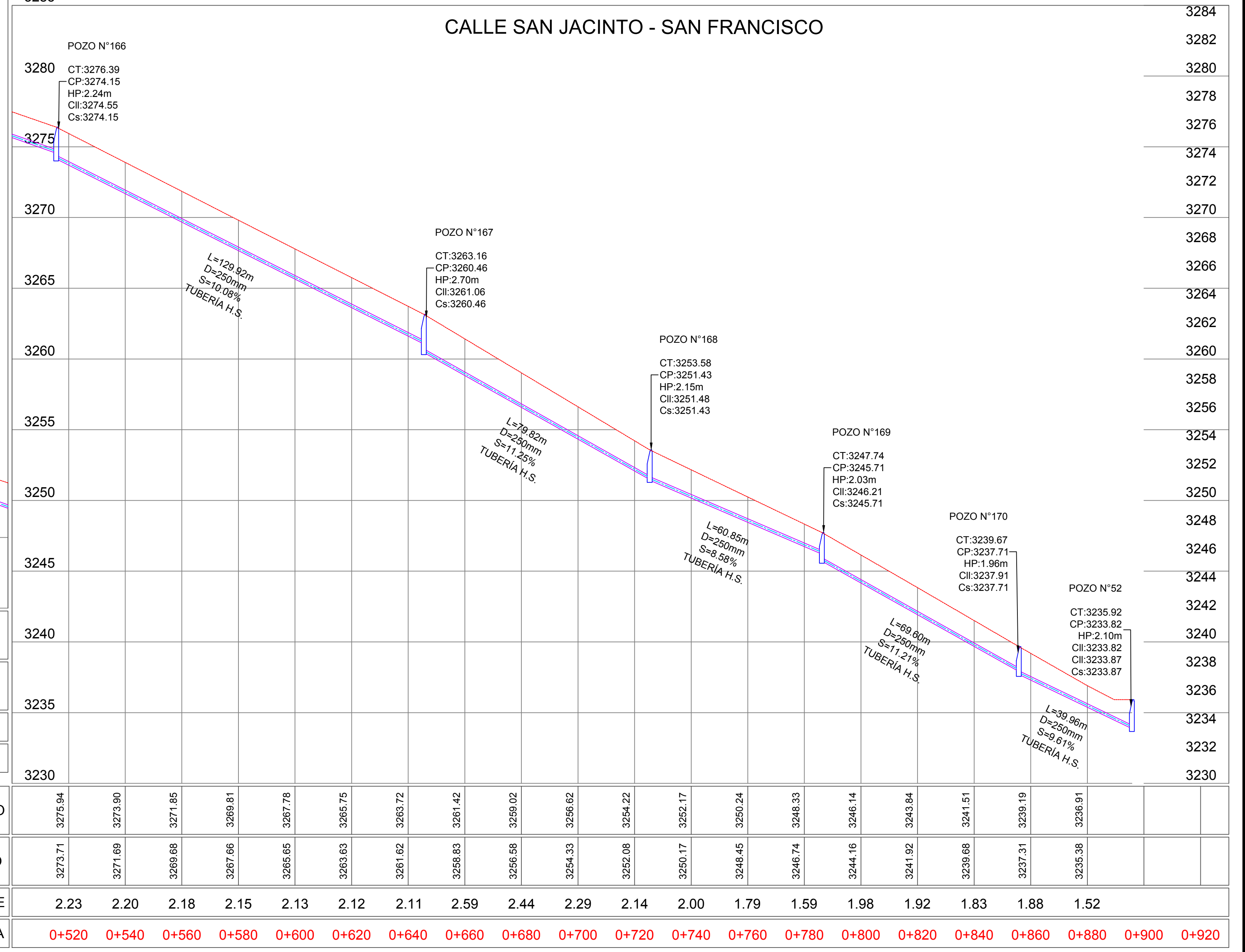
DETALLES POZOS



DETALLES POZOS



PERFIL LONGITUDINAL  
ESC. H.=1:1000  
ESC. V.=1:200



**G.A.D. MUNICIPAL DEL CANTON TISALEO**

"CATASTRO DE LOS SISTEMAS DE ALCANTARILLADO A TRAVÉS DE LA GEOREFERENCIACIÓN Y DIGITALIZACIÓN PARA MEJORAR LA CALIDAD DE INFORMACIÓN SANITARIA DE LA PARROQUIA URBANA TISALEO Y CASERIOS SAN LUIS, SAN FRANCISCO, SAN JUAN, SAN DIEGO, ALDAMA, SANTA LUCÍA-LIBERTAD, SANTA LUCÍA-CENTRO, SANTA LUCÍA ARRIBA, EL CALVARIO DEL CANTÓN TISALEO, PROVINCIA DE TUNGURAHUA"

CONTENIDO: RED DE ALCANTARILLADO SANITARIO CHILCO - SAN FRANCISCO - SAN LUIS - BARRIO SAN JACINTO

PROVINCIA: TUNGURAHUA CANTÓN: TISALEO SECTOR: SAN FRANCISCO

FECHA: AGOSTO, 2022

ELABORADO POR: Egda Tamia Bonita Tutor

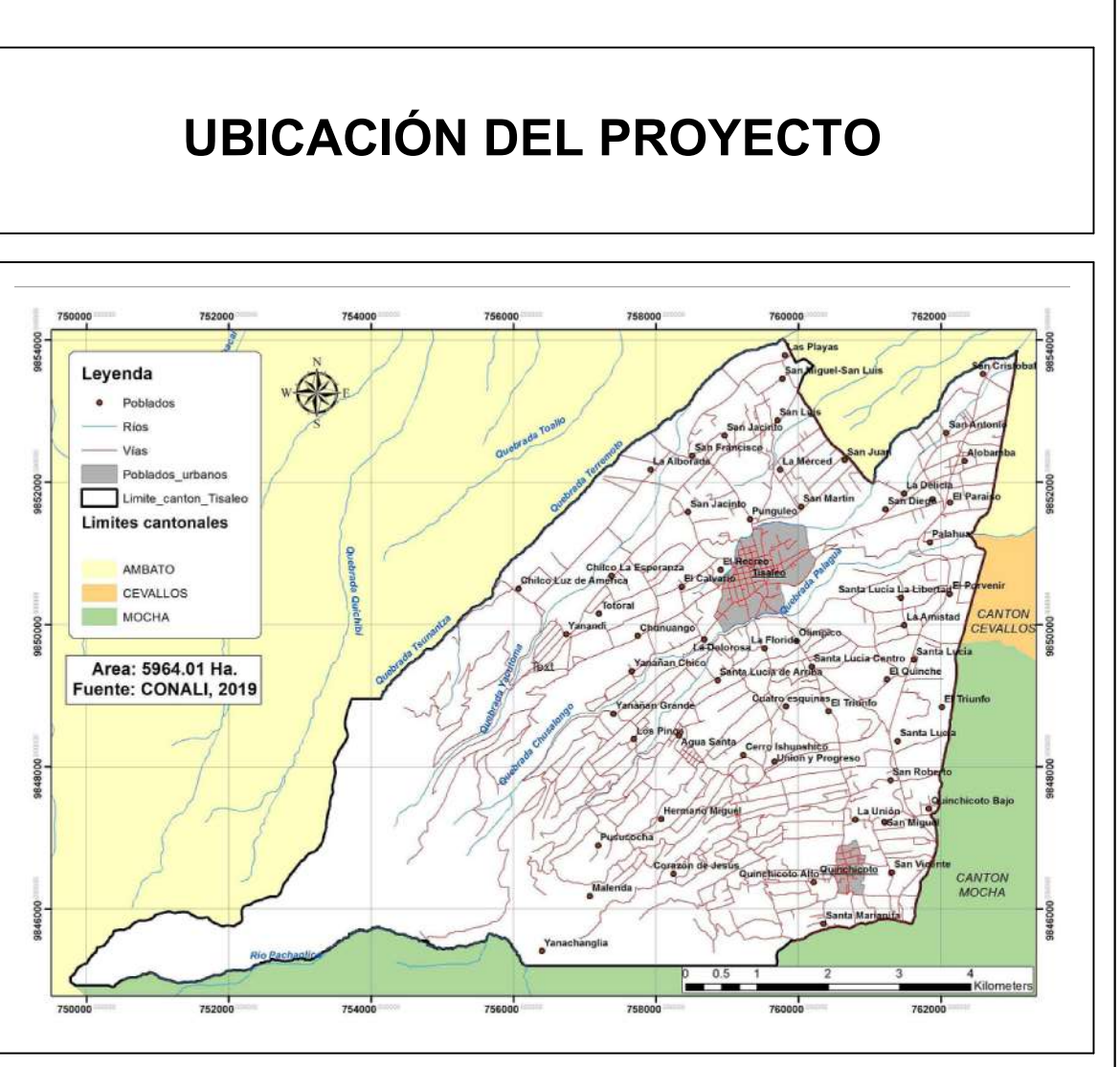
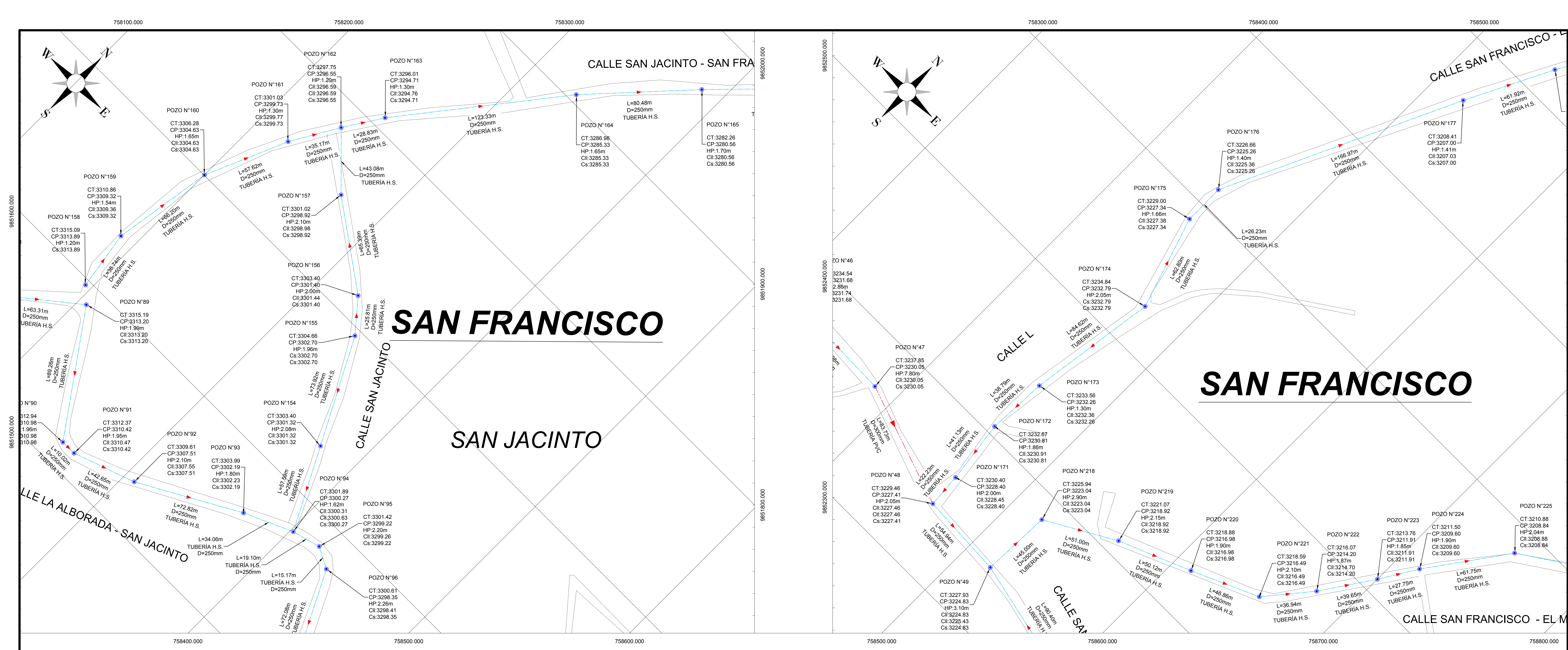
REVISADO POR: Ing. Gato Nuñez Tutor

APROBADO POR: Ing. Gato Nuñez Tutor

LÁMINA: LÁMINA - 13

TOTAL LÁMINAS: 24





### DATOS GEOGRÁFICOS

**DATUM:** WGS84 ZONA 17S

**COORDENADAS UTM:**  
759353.24 m E  
9850780.17 m S

**ALTURA REFERENCIAL:**  
3249 m

### SIMBOLOGÍA

TUBERÍA H.S. D = 250mm

POZO DE REVISIÓN

PERFIL DEL TERRENO

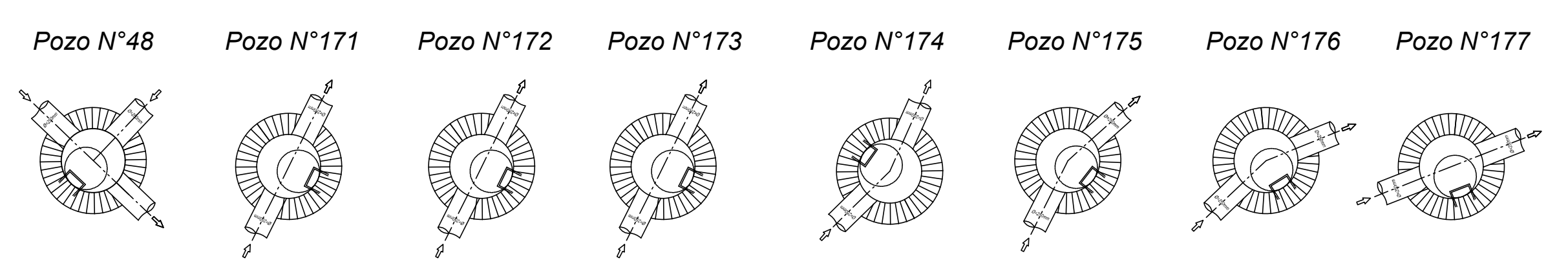
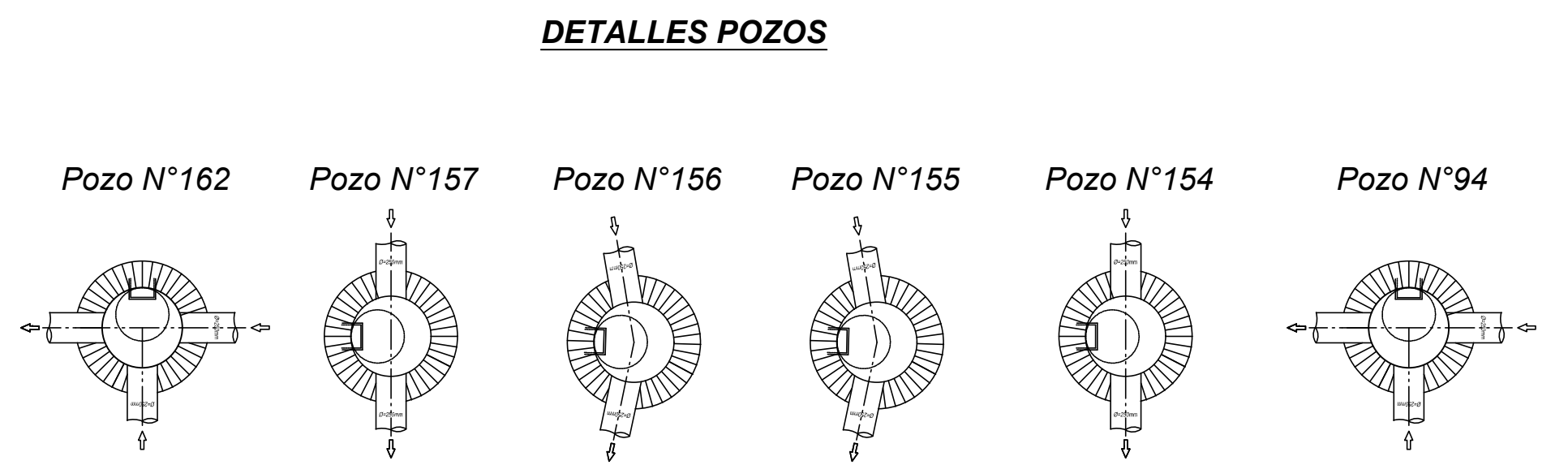
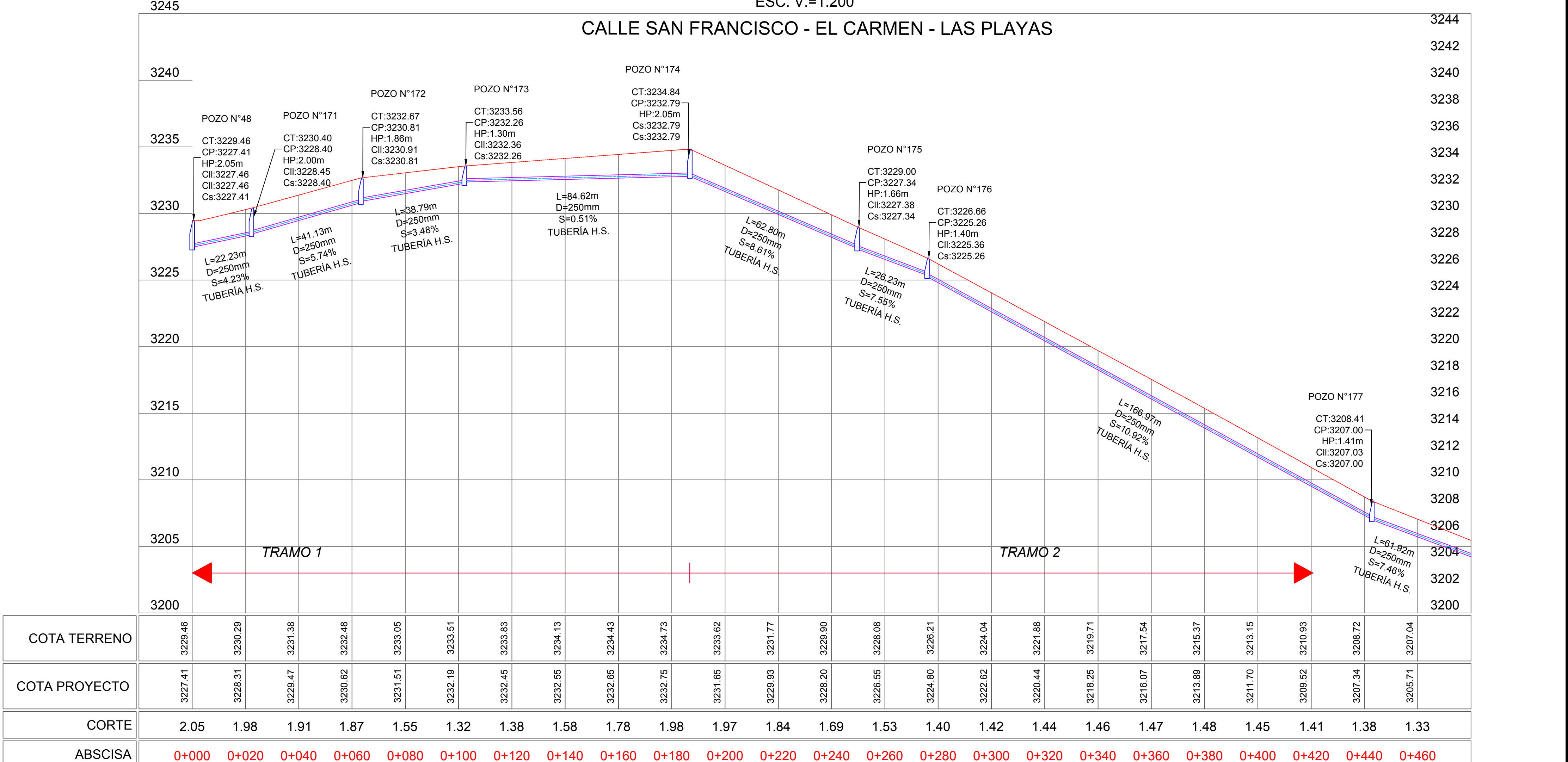
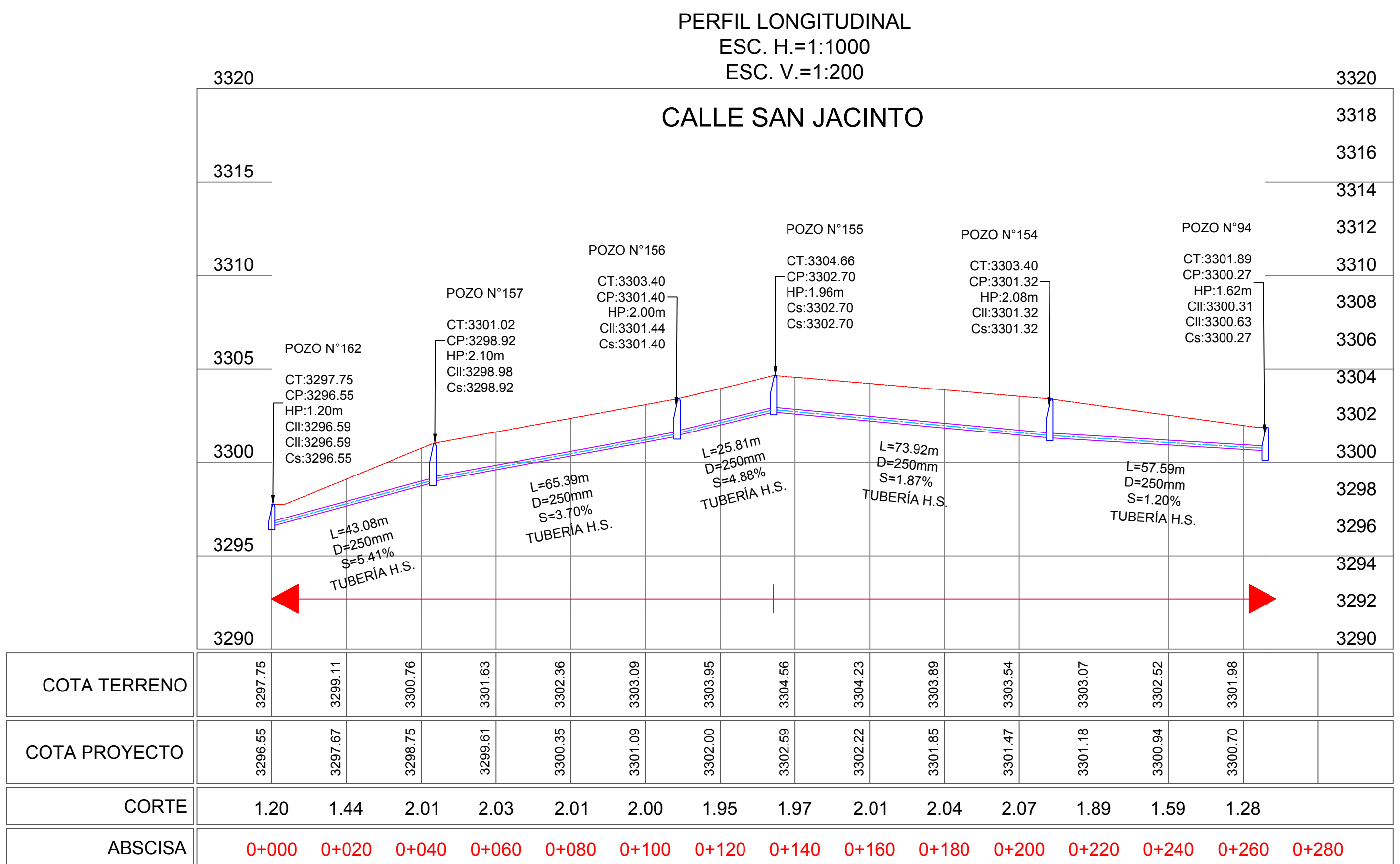
CALLES / VÍAS

L LONGITUD DEL TRAMO  
D / Ø DIÁMETRO DE TUBERÍA  
S GRADIENTE HIDRÁULICA  
CT COTA TERRENO  
CP COTA PROYECTO  
CII COTA DE LLEGADA  
Cs COTA DE SALIDA  
HP ALTURA DE POZO

PERFIL LONGITUDINAL ESC. H.=1:1000 ESC. V.=1:200

CALLE SAN FRANCISCO - EL CARMEN - LAS PLAYAS

ESTACION	COTA TERRENO	COTA PROYECTO	TRAMO
0+00	3227.41	3227.41	TRAMO 1
0+20	3228.31	3228.29	TRAMO 1
0+40	3229.47	3229.35	TRAMO 1
0+60	3230.02	3229.48	TRAMO 1
0+80	3231.51	3230.05	TRAMO 1
0+100	3232.19	3230.51	TRAMO 1
0+120	3232.45	3230.83	TRAMO 1
0+140	3232.95	3234.13	TRAMO 1
0+160	3232.85	3234.43	TRAMO 1
0+180	3232.75	3237.73	TRAMO 1
0+200	3225.65	3225.62	TRAMO 1
0+220	3229.93	3231.77	TRAMO 1
0+240	3228.20	3229.90	TRAMO 1
0+260	3226.85	3228.08	TRAMO 1
0+280	3224.80	3228.21	TRAMO 1
0+300	3222.02	3224.04	TRAMO 1
0+320	3220.44	3220.88	TRAMO 1
0+340	3218.25	3219.71	TRAMO 1
0+360	3216.07	3217.54	TRAMO 1
0+380	3213.89	3215.37	TRAMO 1
0+400	3211.70	3213.15	TRAMO 1
0+420	3209.52	3210.93	TRAMO 1
0+440	3207.34	3208.72	TRAMO 1
0+460	3205.11	3205.71	TRAMO 1
0+480	3202.94	3202.74	TRAMO 1
0+500	3200.77	3200.77	TRAMO 1
0+520	3198.60	3198.76	TRAMO 1
0+540	3196.43	3196.75	TRAMO 1
0+560	3194.26	3194.74	TRAMO 1
0+580	3192.09	3192.73	TRAMO 1
0+600	3189.92	3190.72	TRAMO 1
0+620	3187.75	3188.71	TRAMO 1
0+640	3185.58	3186.70	TRAMO 1
0+660	3183.41	3184.69	TRAMO 1
0+680	3181.24	3182.68	TRAMO 1
0+700	3179.07	3180.67	TRAMO 1
0+720	3176.90	3178.66	TRAMO 1
0+740	3174.73	3176.65	TRAMO 1
0+760	3172.56	3174.64	TRAMO 1
0+780	3170.39	3172.63	TRAMO 1
0+800	3168.22	3170.62	TRAMO 1
0+820	3166.05	3168.61	TRAMO 1
0+840	3163.88	3166.60	TRAMO 1
0+860	3161.71	3164.59	TRAMO 1
0+880	3159.54	3162.58	TRAMO 1
0+900	3157.37	3160.57	TRAMO 1
0+920	3155.20	3158.56	TRAMO 1
0+940	3153.03	3156.55	TRAMO 1
0+960	3150.86	3154.54	TRAMO 1
0+980	3148.69	3152.53	TRAMO 1
1+000	3146.52	3150.52	TRAMO 1
1+020	3144.35	3148.51	TRAMO 1
1+040	3142.18	3146.50	TRAMO 1
1+060	3140.01	3144.49	TRAMO 1
1+080	3137.84	3142.48	TRAMO 1
1+100	3135.67	3140.47	TRAMO 1
1+120	3133.50	3138.46	TRAMO 1
1+140	3131.33	3136.45	TRAMO 1
1+160	3129.16	3134.44	TRAMO 1
1+180	3126.99	3132.43	TRAMO 1
1+200	3124.82	3130.42	TRAMO 1
1+220	3122.65	3128.41	TRAMO 1
1+240	3120.48	3126.40	TRAMO 1
1+260	3118.31	3124.39	TRAMO 1
1+280	3116.14	3122.38	TRAMO 1
1+300	3113.97	3120.37	TRAMO 1
1+320	3111.80	3118.36	TRAMO 1
1+340	3109.63	3116.35	TRAMO 1
1+360	3107.46	3114.34	TRAMO 1
1+380	3105.29	3112.33	TRAMO 1
1+400	3103.12	3110.32	TRAMO 1
1+420	3100.95	3108.31	TRAMO 1
1+440	3098.78	3106.30	TRAMO 1
1+460	3096.61	3104.29	TRAMO 1
1+480	3094.44	3102.28	TRAMO 1
1+500	3092.27	3100.27	TRAMO 1
1+520	3090.10	3098.26	TRAMO 1
1+540	3087.93	3096.25	TRAMO 1
1+560	3085.76	3094.24	TRAMO 1
1+580	3083.59	3092.23	TRAMO 1
1+600	3081.42	3090.22	TRAMO 1
1+620	3079.25	3088.21	TRAMO 1
1+640	3077.08	3086.20	TRAMO 1
1+660	3074.91	3084.19	TRAMO 1
1+680	3072.74	3082.18	TRAMO 1
1+700	3070.57	3080.17	TRAMO 1
1+720	3068.40	3078.16	TRAMO 1
1+740	3066.23	3076.15	TRAMO 1
1+760	3064.06	3074.14	TRAMO 1
1+780	3061.89	3072.13	TRAMO 1
1+800	3059.72	3070.12	TRAMO 1
1+820	3057.55	3068.11	TRAMO 1
1+840	3055.38	3066.10	TRAMO 1
1+860	3053.21	3064.09	TRAMO 1
1+880	3051.04	3062.08	TRAMO 1
1+900	3048.87	3060.07	TRAMO 1
1+920	3046.70	3058.06	TRAMO 1
1+940	3044.53	3056.05	TRAMO 1
1+960	3042.36	3054.04	TRAMO 1
1+980	3040.19	3052.03	TRAMO 1
2+000	3038.02	3050.02	TRAMO 2
2+020	3035.85	3048.01	TRAMO 2
2+040	3033.68	3046.00	TRAMO 2
2+060	3031.51	3043.99	TRAMO 2
2+080	3029.34	3041.98	TRAMO 2
2+100	3027.17	3039.97	TRAMO 2
2+120	3025.00	3037.96	TRAMO 2
2+140	3022.83	3035.95	TRAMO 2
2+160	3020.66	3033.94	TRAMO 2
2+180	3018.49	3031.93	TRAMO 2
2+200	3016.32	3029.92	TRAMO 2
2+220	3014.15	3027.91	TRAMO 2
2+240	3011.98	3025.90	TRAMO 2
2+260	3009.81	3023.89	TRAMO 2
2+280	3007.64	3021.88	TRAMO 2
2+300	3005.47	3019.87	TRAMO 2
2+320	3003.30	3017.86	TRAMO 2
2+340	3001.13	3015.85	TRAMO 2
2+360	2998.96	3013.84	TRAMO 2
2+380	2996.79	3011.83	TRAMO 2
2+400	2994.62	3009.82	TRAMO 2
2+420	2992.45	3007.81	TRAMO 2
2+440	2990.28	3005.80	TRAMO 2
2+460	2988.11	3003.79	TRAMO 2
2+480	2985.94	3001.78	TRAMO 2
2+500	2983.77	2999.77	TRAMO 2
2+520	2981.60	2997.76	TRAMO 2
2+540	2979.43	2995.75	TRAMO 2
2+560	2977.26	2993.74	TRAMO 2
2+580	2975.09	2991.73	TRAMO 2
2+600	2972.92	2989.72	TRAMO 2
2+620	2970.75	2987.71	TRAMO 2
2+640	2968.58	2985.70	TRAMO 2
2+660	2966.41	2983.69	TRAMO 2
2+680	2964.24	2981.68	TRAMO 2
2+700	2962.07	2979.67	TRAMO 2
2+720	2959.90	2977.66	TRAMO 2
2+740	2957.73	2975.65	TRAMO 2
2+760	2955.56	2973.64	TRAMO 2
2+780	2953.39	2971.63	TRAMO 2
2+800	2951.22	2969.62	TRAMO 2
2+820	2949.05	2967.61	TRAMO 2
2+840	2946.88	2965.60	TRAMO 2
2+860	2944.71	2963.59	TRAMO 2
2+880	2942.54	2961.58	TRAMO 2
2+900	2940.37	2959.57	TRAMO 2
2+920	2938.20	2957.56	TRAMO 2
2+940	2936.03	2955.55	TRAMO 2
2+960	2933.86	2953.54	TRAMO 2
2+980	2931.69	2951.53	TRAMO 2
3+000	2929.52	2949.52	TRAMO 2



**G.A.D. MUNICIPAL DEL CANTON TISALEO**

"CATASTRO DE LOS SISTEMAS DE ALCANTARILLADO A TRAVÉS DE LA GEOREFERENCIACION Y DIGITALIZACION PARA MEJORAR LA CALIDAD DE INFORMACION SANITARIA DE LA PARROQUIA URBANA TISALEO Y CASERIOS SAN LUIS, SAN FRANCISCO, SAN JUAN, SAN DIEGO, ALDAMBRA, SANTA LUCÍA LA LIBERTAD, SANTA LUCÍA-CENTRO, SANTA LUCÍA ARRIBA, EL CALVARIO DEL CANTÓN TISALEO, PROVINCIA DE TUNGURAHUA"

CONTIENE: RED DE ALCANTARILLADO SANITARIO CHILO - SAN FRANCISCO - SAN LUIS - BARRIO SAN FRANCISCO CENTRO

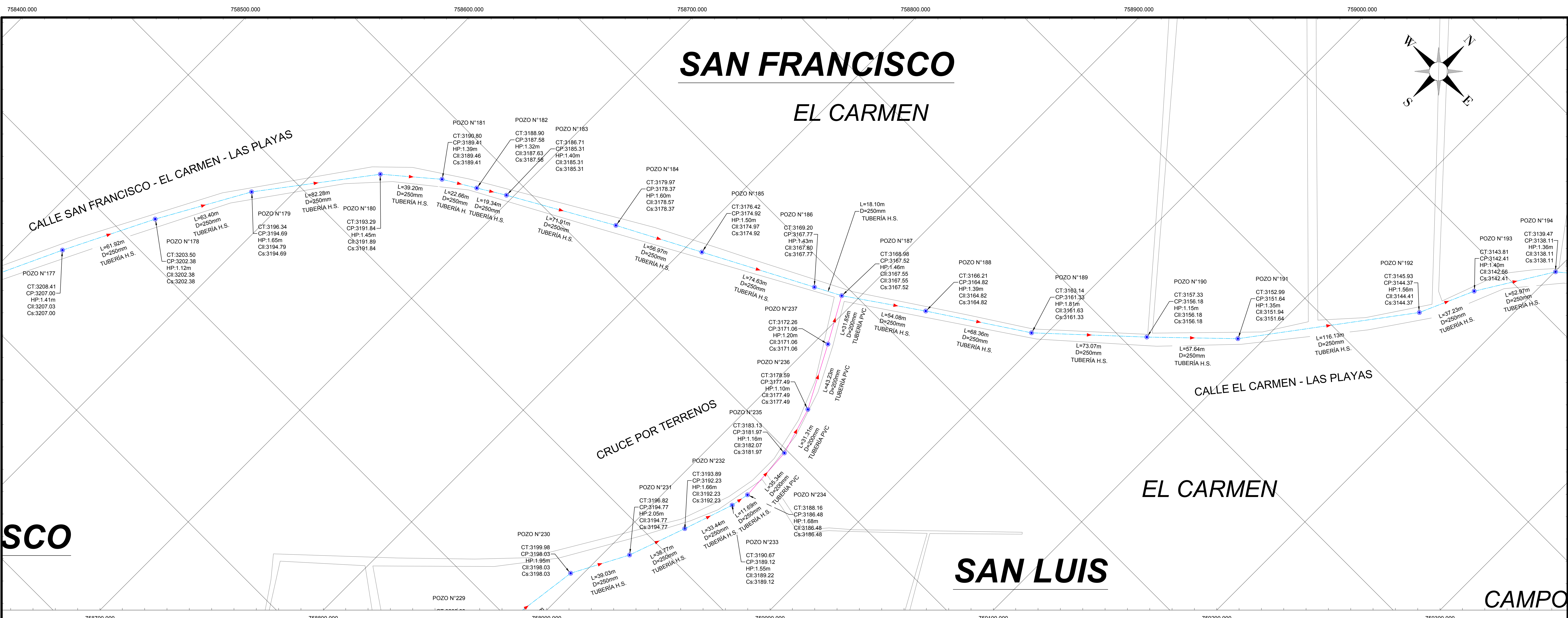
PROVINCIA: TUNGURAHUA CANTÓN: TISALEO SECTOR: SAN FRANCISCO

FECHA: AGOSTO, 2022

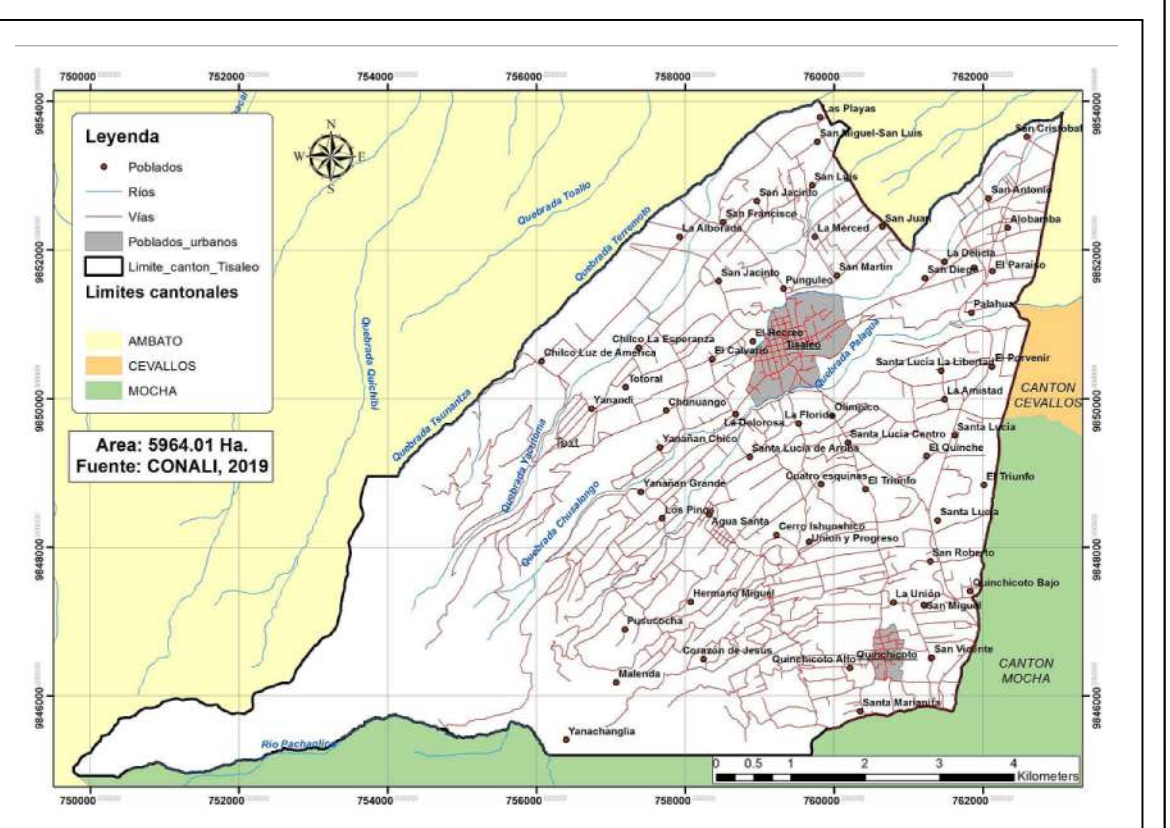
ELABORADO POR: Eglis Tamia Bonita Testa REVISADO POR: Ing. Gato Nuñez Tutor APROBADO POR: Ing. Gato Nuñez Tutor

ESCALA: 1:5000 LÁMINA: 14 TOTAL LÁMINAS: 24





**UBICACIÓN DEL PROYECTO**



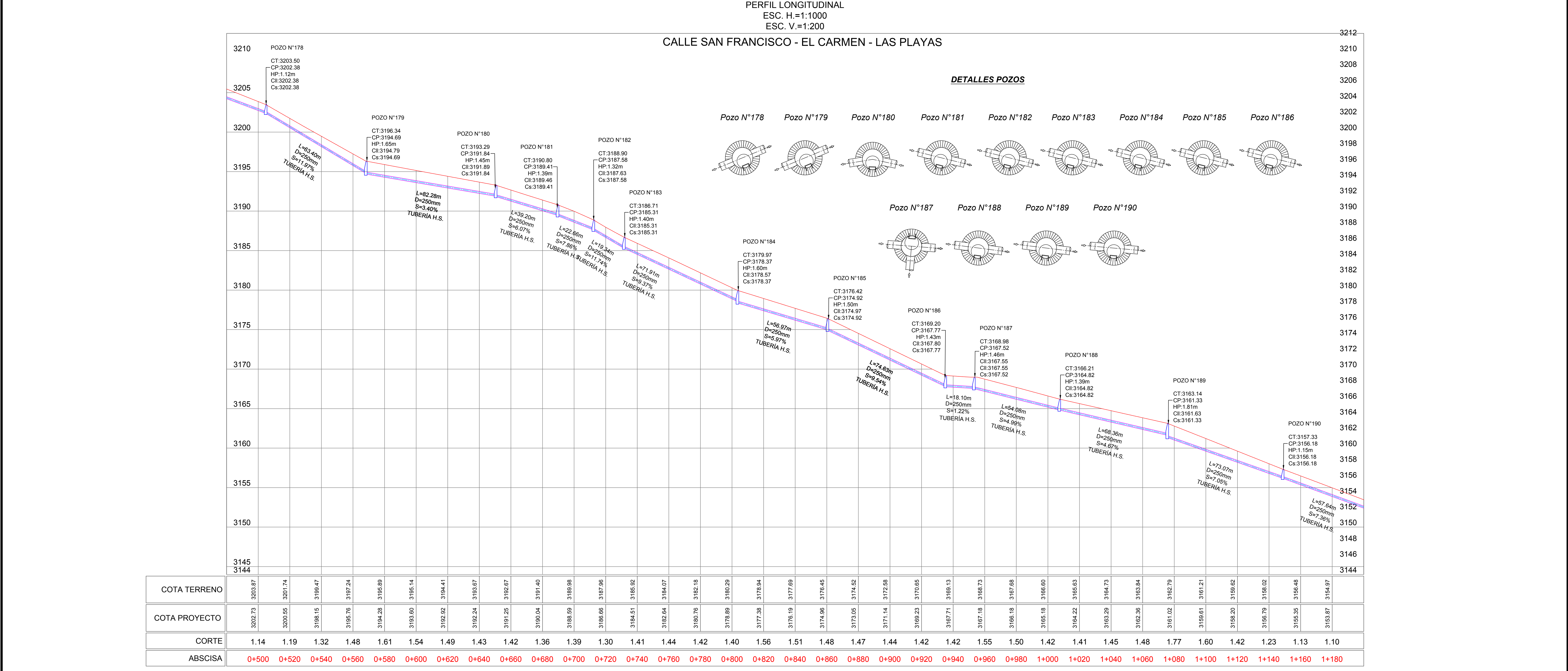
**DATOS GEOGRÁFICOS**

**DATUM:** WGS84 ZONA 17S  
**COORDENADAS UTM:** 759353.24 m E  
 9850780.17 m S  
**ALTURA REFERENCIAL:** 3249 m

**SIMBOLOGÍA**

- TUBERÍA H.S. D = 250mm
- TUBERÍA PVC D = 200mm
- POZO DE REVISIÓN
- PERFIL DEL TERRENO
- CALLES / VÍAS

- L LONGITUD DEL TRAMO
- D / Ø DIÁMETRO DE TUBERÍA
- S GRADIENTE HIDRÁULICA
- CT COTA TERRENO
- CP COTA PROYECTO
- CI COTA DE LLEGADA
- Cs COTA DE SALIDA
- HP ALTURA DE POZO



**RED DE ALCANTARILLADO CHICO - SAN FRANCISCO - SAN LUIS**  
**CALLE SAN FRANCISCO - EL CARMEN - LAS PLAYAS**

N°	E (m)	N (m)	C. TERRENO (m)	C. LLEGADA (m)	C. SALIDA (m)
174	758471.39	9852527.99	3234.84	3232.79	3232.79
175	758451.98	9852587.71	3229.00	3227.38	3227.38
176	758451.73	9852613.95	3228.66	3228.36	3228.36
177	758522.20	9852765.52	3208.41	3207.03	3207.03
178	758549.82	9852870.73	3203.50	3202.38	3202.38
179	758595.82	9852975.05	3186.34	3184.79	3184.79
180	758630.70	9852941.41	3183.29	3181.89	3181.84
181	758660.62	9852966.80	3180.80	3180.48	3180.41
182	758699.89	9852979.68	3180.90	3180.63	3180.58
183	758696.39	9852988.67	3180.71	3180.31	3180.31
184	758758.92	9853024.18	3179.97	3178.97	3178.37
185	758809.34	9853050.70	3176.42	3174.97	3174.92
186	758875.40	9853085.43	3169.20	3167.80	3167.77
187	758981.44	9853093.62	3168.98	3167.52	3167.52
188	758935.93	9853124.57	3166.21	3164.82	3164.82
189	758993.02	9853162.17	3163.14	3161.83	3161.83
190	759048.56	9853211.90	3157.33	3156.18	3156.18
191	759088.03	9853251.93	3152.99	3151.64	3151.64
192	759157.58	9853344.93	3145.93	3144.41	3144.37
193	759172.59	9853377.00	3143.81	3142.66	3142.61
194	759200.38	9853424.09	3139.47	3138.11	3138.11
195	759249.84	9853462.37	3135.45	3133.97	3133.77
196	759273.97	9853486.73	3132.33	3131.18	3131.18
197	759304.50	9853518.70	3127.51	3126.09	3125.99
198	759336.25	9853563.21	3120.61	3119.16	3119.01
199	759409.69	9853596.67	3117.85	3116.34	3116.18
200	759455.79	9853622.98	3114.91	3113.34	3113.29
201	759495.79	9853644.92	3112.90	3111.12	3111.07
202	759564.01	9853670.31	3110.02	3108.88	3108.83
203	759690.20	9853689.26	3109.88	3108.29	3108.26
204	759713.84	9853697.52	3109.09	3107.48	3107.48
205	759767.37	9853710.33	3108.06	3106.29	3106.26
206	759801.20	9853737.90	3102.80	3101.33	3101.30
207	759894.32	9853803.11	3102.45	3101.15	3101.10
208	759926.52	9853815.02	3098.93	3097.37	3097.33
209	759971.51	9853851.92	3095.62	3094.46	3094.28
210	759980.08	9853852.81	3095.18	3093.65	3093.65
211	760059.86	9853923.97	3088.29	3087.16	3087.11
212	760080.14	9853940.68	3086.45	3084.84	3084.84
213	760111.67	9853958.55	3085.43	3083.80	3083.80
214	760211.22	9853995.52	3083.57	3081.78	3081.78
215	760283.79	9854033.09	3082.08	3079.85	3079.81
216	760328.10	9854068.64	3081.50	3078.08	3078.08
217	760397.46	9854172.67	3075.85	3072.59	3072.59

**G.A.D. MUNICIPAL DEL CANTÓN TISALEO**  
 "CATASTRO DE LOS SISTEMAS DE ALCANTARILLADO A TRAVÉS DE LA GEOREFERENCIACIÓN Y DIGITALIZACIÓN PARA MEJORAR LA CALIDAD DE INFORMACIÓN SANITARIA DE LA PARROQUIA URBANA TISALEO Y CASERIOS SAN LUIS, SAN FRANCISCO, SAN JUAN, SAN DIEGO, ALDABANA, SANTA LUCÍA LIBERTAD, SANTA LUCÍA-CENTRO, SANTA LUCÍA ARRIBA, EL CALVARIO DEL CANTÓN TISALEO, PROVINCIA DE TUNGURAHUA"

CONTIENE: RED DE ALCANTARILLADO SANITARIO CHICO - SAN FRANCISCO - SAN LUIS - BARRIO EL CARMEN

PROVINCIA: TUNGURAHUA CANTÓN: TISALEO SECTOR: SAN FRANCISCO

UNIVERSIDAD TÉCNICA DE AMBATO FACULTAD DE INGENIERÍA CIVIL Y MECÁNICA CÁTEDRA DE INGENIERÍA CIVIL

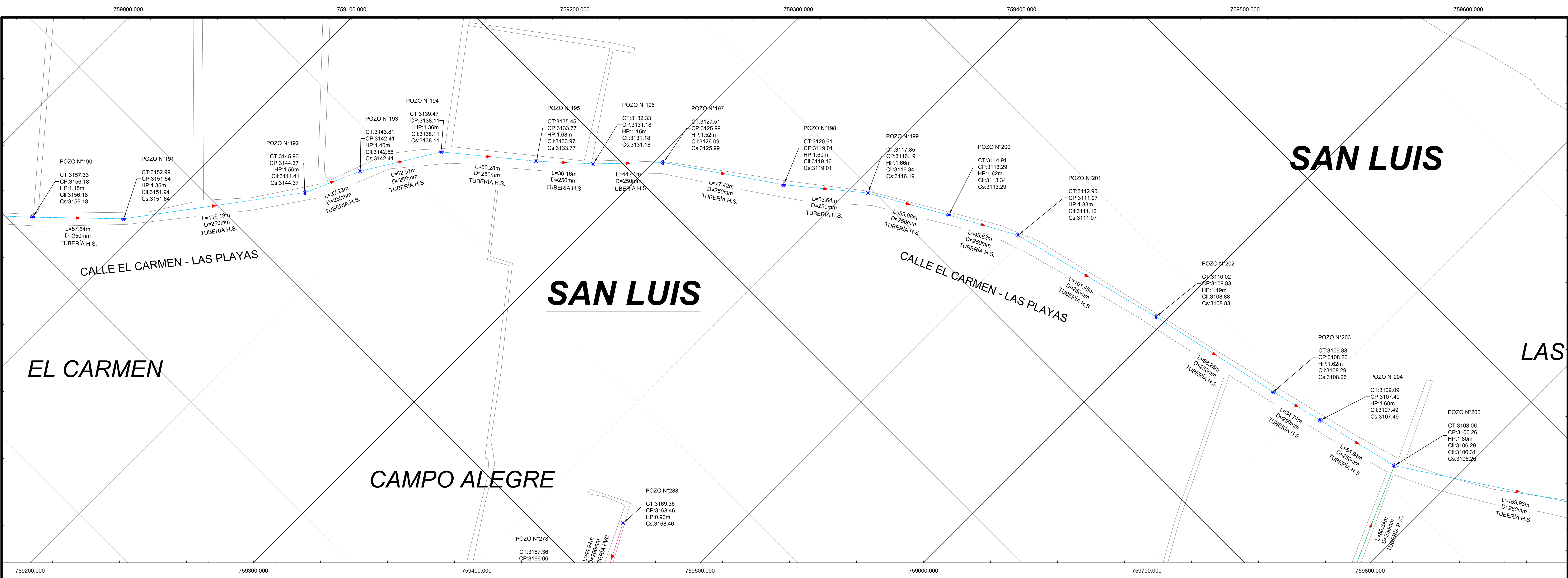
FECHA: AGOSTO, 2022

ELABORADO POR: REVISADO POR: APROBADO POR:

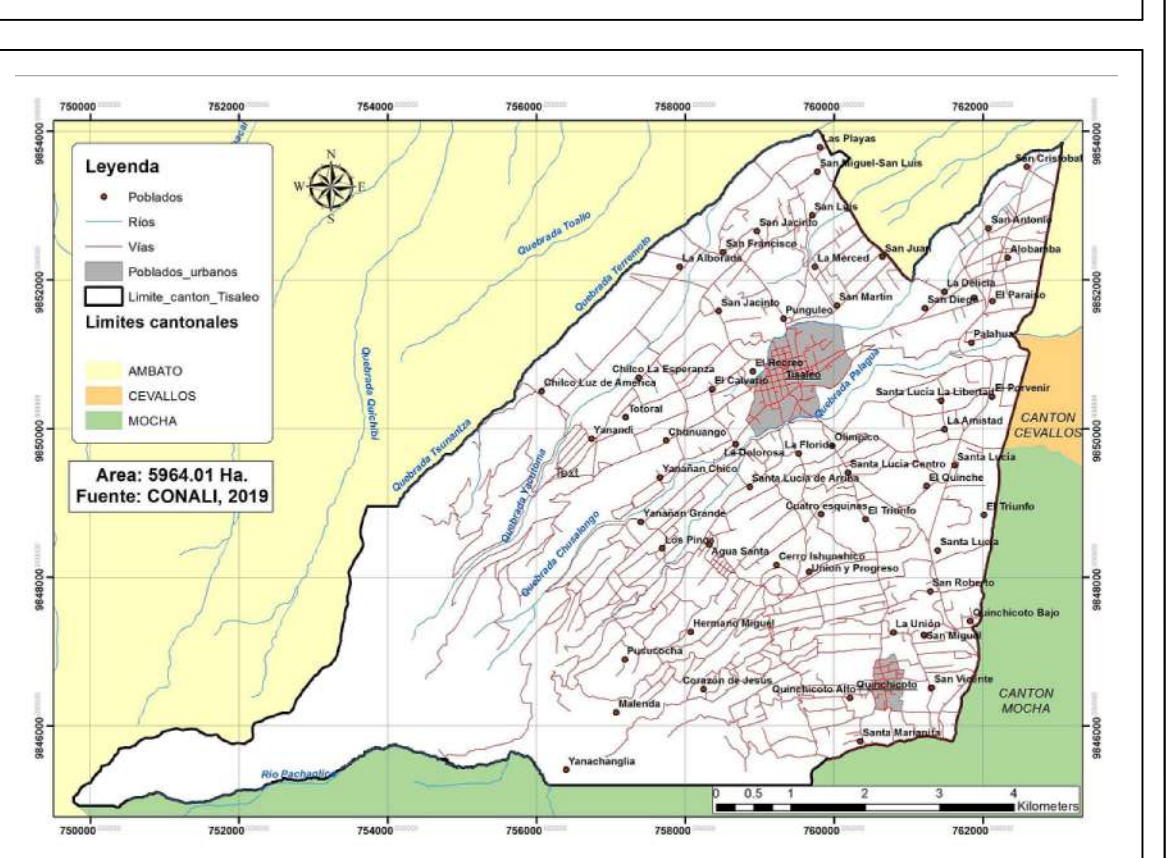
Egita Tamara Bonita Testa Ing. Gato Nuñez Tutor Ing. Gato Nuñez Tutor

LÁMINA: 15 TOTAL LÁMINAS: 24





**UBICACIÓN DEL PROYECTO**



**DATOS GEOGRÁFICOS**

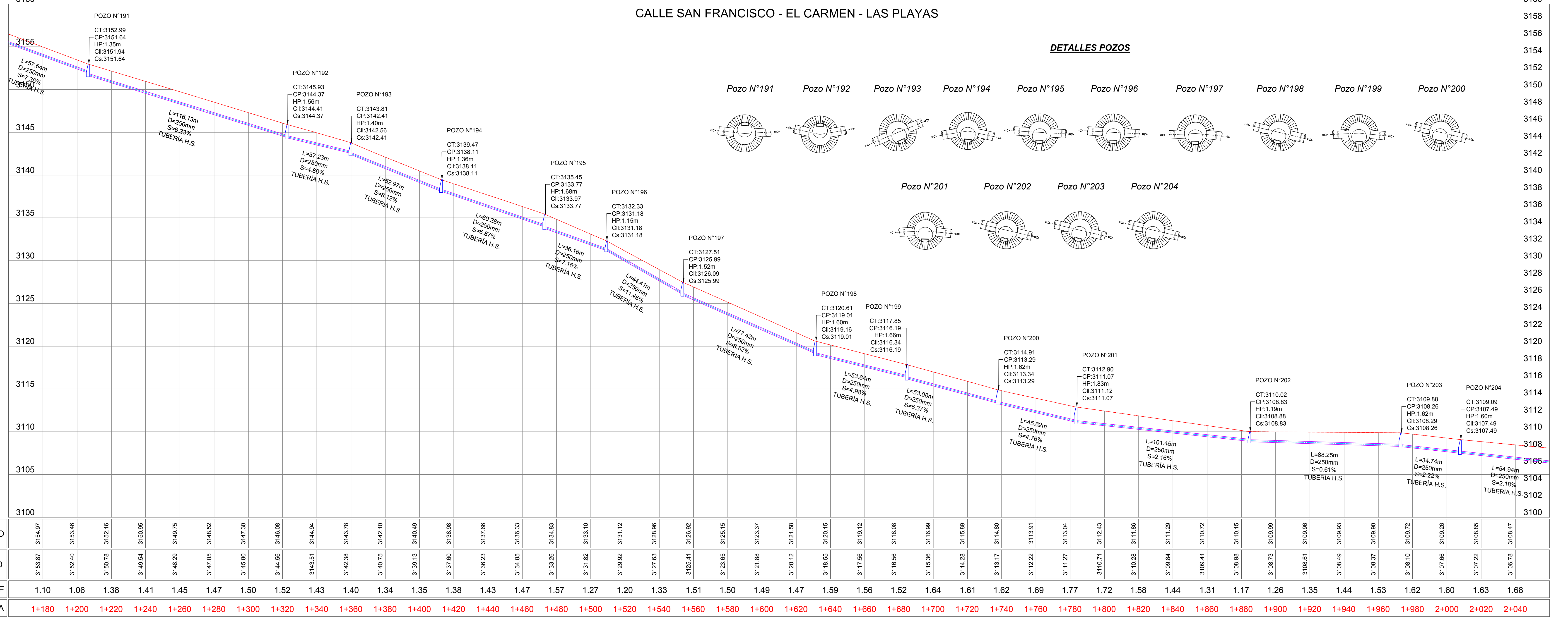
**DATUM:** WGS84 ZONA 17S  
**COORDENADAS UTM:** 759353.24 m E, 9850780.17 m S  
**ALTURA REFERENCIAL:** 3249 m

**SIMBOLOGÍA**

- TUBERÍA H.S. D = 250mm
- TUBERÍA PVC D = 250mm
- POZO DE REVISIÓN
- PERFIL DEL TERRENO
- CALLES / VÍAS

L	LONGITUD DEL TRAMO
D / Ø	DIÁMETRO DE TUBERÍA
S	GRADIENTE HIDRÁULICA
CT	COTA TERRENO
CP	COTA PROYECTO
CII	COTA DE LLEGADA
Cs	COTA DE SALIDA
HP	ALTURA DE POZO

**PERFIL LONGITUDINAL**  
 ESC. H.=1:1000  
 ESC. V.=1:200



**RED DE ALCANTARILLADO CHILOCO - SAN FRANCISCO - SAN LUIS**

N°	ESTE (m)	NORTE (m)	C. TERRENO (C.)	LLEGADA (C.)	SALIDA (C.)
TRAMO 1					
CALLE EL CARMEN - LAS PLAYAS					
174	758471.39	9852527.99	3234.84	3232.79	3232.79
175	758451.96	9852587.71	3229.00	3227.38	3227.34
176	758451.73	9852613.95	3226.66	3225.36	3225.26
177	758522.20	9852765.32	3208.41	3207.03	3207.00
178	758549.82	9852820.73	3203.50	3202.38	3202.38
179	758580.80	9852876.05	3196.34	3194.79	3194.69
180	758630.70	9852941.41	3193.29	3191.89	3191.84
181	758660.60	9852966.80	3190.80	3189.46	3189.41
182	758679.89	9852978.58	3188.90	3187.63	3187.58
183	758696.39	9852988.67	3186.71	3185.31	3185.31
184	758758.92	9853024.18	3179.97	3178.57	3178.37
185	758809.34	9853050.70	3176.42	3174.97	3174.92
186	758874.40	9853066.80	3169.20	3167.80	3167.77
187	758891.44	9853093.82	3168.98	3167.55	3167.52
188	758935.93	9853124.57	3166.21	3164.82	3164.82
189	758993.02	9853162.17	3163.14	3161.63	3161.33
190	759046.56	9853211.90	3157.33	3156.16	3156.18
191	759058.03	9853251.93	3152.98	3151.94	3151.64
192	759157.58	9853344.93	3145.93	3144.41	3144.37
193	759172.59	9853379.00	3143.81	3142.56	3142.41
194	759200.38	9853424.09	3139.47	3138.11	3138.11
195	759246.94	9853462.37	3135.45	3133.97	3133.77
196	759273.67	9853486.73	3132.33	3131.18	3131.18
197	759304.50	9853518.70	3127.51	3126.09	3125.99
198	759368.25	9853562.61	3120.61	3119.16	3119.01
199	759409.69	9853596.67	3117.85	3116.34	3116.19
200	759458.79	9853622.98	3114.91	3113.34	3113.29
201	759495.79	9853644.92	3112.90	3111.12	3111.07
202	759594.01	9853670.31	3110.02	3108.88	3108.83
203	759680.20	9853689.26	3109.88	3108.29	3108.26
204	759713.94	9853697.52	3109.09	3107.49	3107.49
205	759767.37	9853710.33	3108.04	3106.26	3106.26
206	759901.20	9853797.90	3102.60	3101.33	3101.30
207	759904.32	9853800.11	3102.45	3101.15	3101.10
208	759926.52	9853815.02	3098.93	3097.37	3097.33
209	759973.51	9853853.92	3095.62	3094.46	3094.26
210	759990.48	9853852.81	3095.16	3093.65	3093.65
211	760059.86	9853923.97	3088.29	3087.16	3087.11
212	760080.14	9853940.66	3086.45	3084.94	3084.84
213	760111.67	9853958.55	3085.43	3083.80	3083.80
214	760211.22	9853995.52	3081.76	3079.18	3079.18
215	760283.79	9854038.69	3080.08	3079.50	3079.50
216	760329.10	9854068.64	3081.50	3078.08	3078.08
217	760397.46	9854172.67	3075.85	3072.59	3072.59

**G.A.D. MUNICIPAL DEL CANTON TISALEO**

CONTIENE: RED DE ALCANTARILLADO SANITARIO CHILOCO - SAN FRANCISCO - SAN LUIS  
 TUBERÍA DE ALCANTARILLADO SANITARIO CHILOCO - CAMPO ALEGRE

UNIVERSIDAD TÉCNICA DE AMBATO  
 FACULTAD DE INGENIERÍA CIVIL Y MECÁNICA  
 CÁTEDRA DE INGENIERÍA CIVIL

FECHA: AGOSTO, 2022

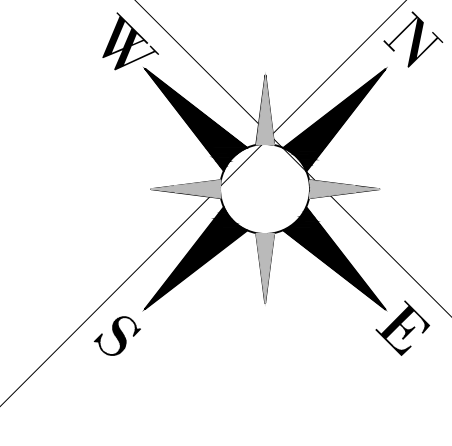
ELABORADO POR: Eglis Tamara Bonita Testa  
 REVISADO POR: Ing. Gato Nuñez Tutor  
 APROBADO POR: Ing. Gato Nuñez Tutor

LÁMINA: 16  
 TOTAL LÁMINAS: 24

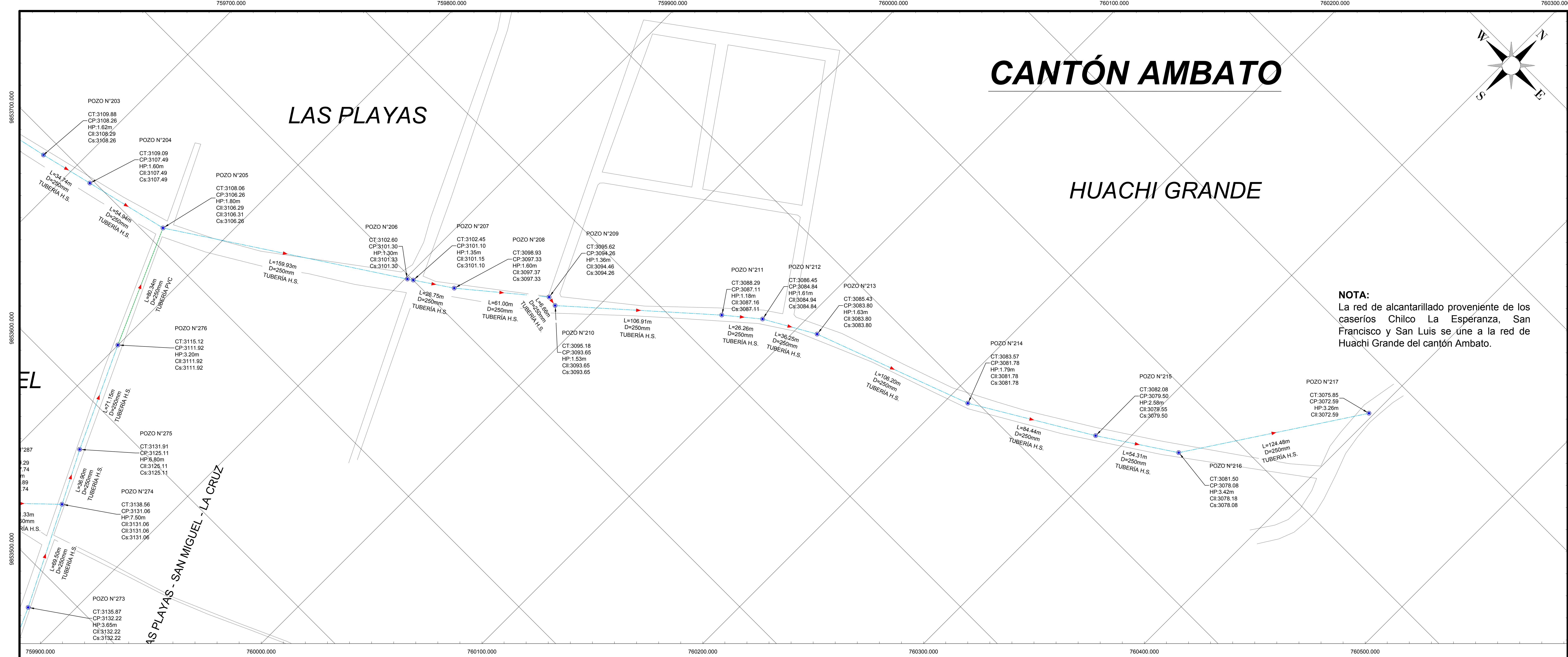


# CANTÓN AMBATO

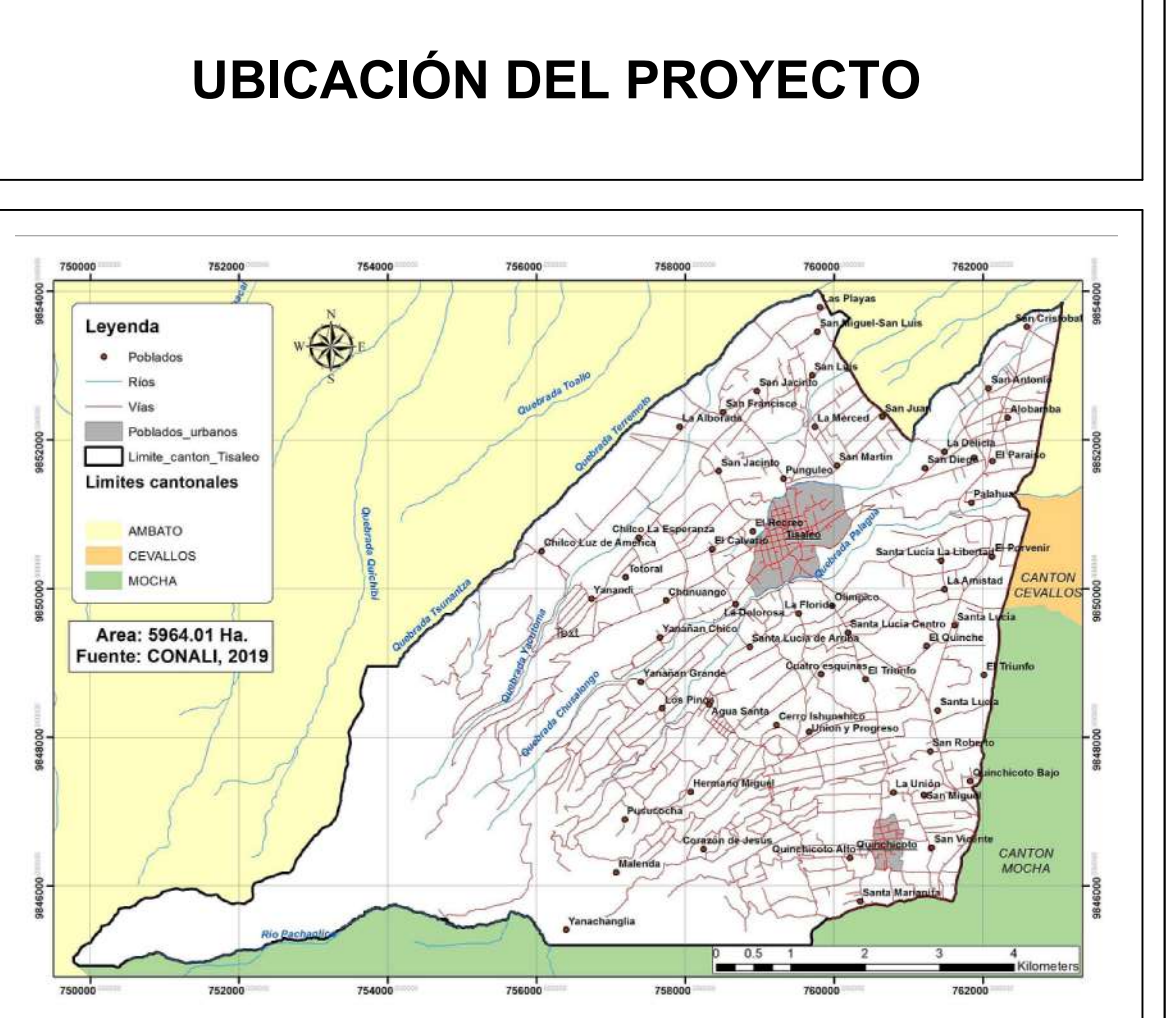
## HUACHI GRANDE



### LAS PLAYAS



**NOTA:**  
La red de alcantarillado proveniente de los caseríos Chilco La Esperanza, San Francisco y San Luis se une a la red de Huachi Grande del cantón Ambato.



### DATOS GEOGRÁFICOS

**DATUM:** WGS84 ZONA 17S  
**COORDENADAS UTM:** 759353.24 m E  
9850780.17 m S  
**ALTURA REFERENCIAL:** 3249 m

### SIMBOLOGÍA

- TUBERÍA H.S. D = 250mm
- TUBERÍA PVC D = 250mm
- POZO DE REVISIÓN
- PERFIL DEL TERRENO
- CALLES / VIAS

L	LONGITUD DEL TRAMO
D / Ø	DIÁMETRO DE TUBERÍA
S	GRADIENTE HIDRÁULICA
CT	COTA TERRENO
CP	COTA PROYECTO
CII	COTA DE LLEGADA
Cs	COTA DE SALIDA
HP	ALTURA DE POZO

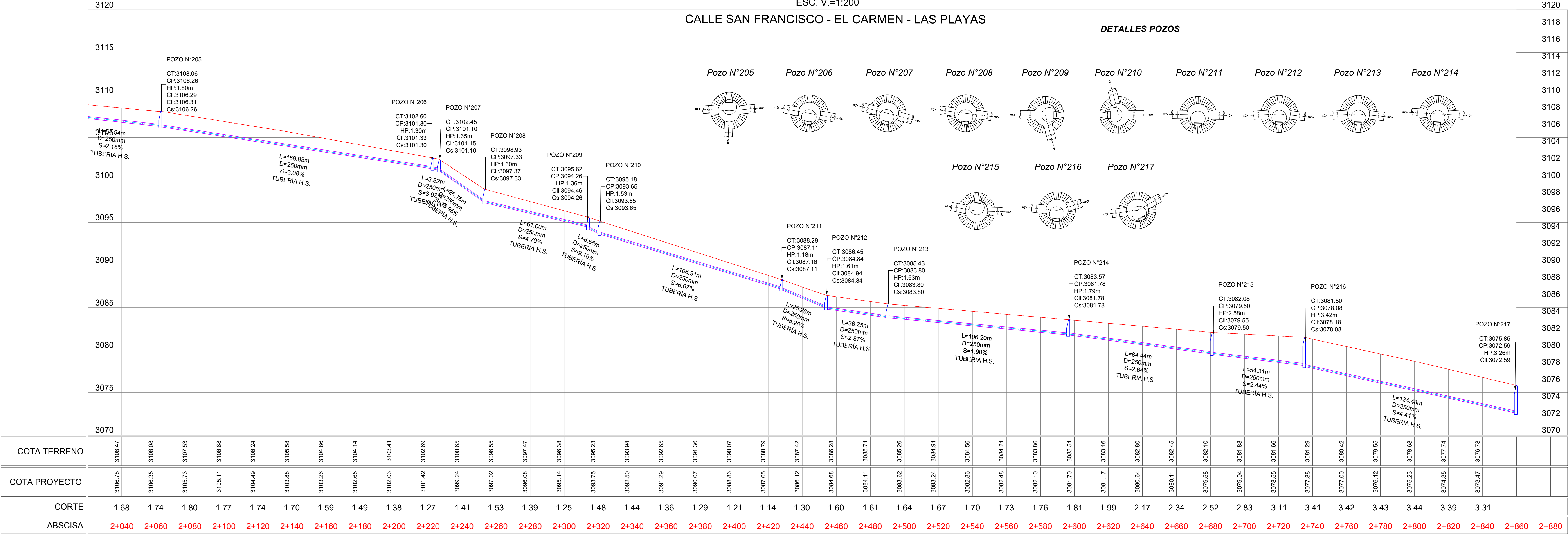
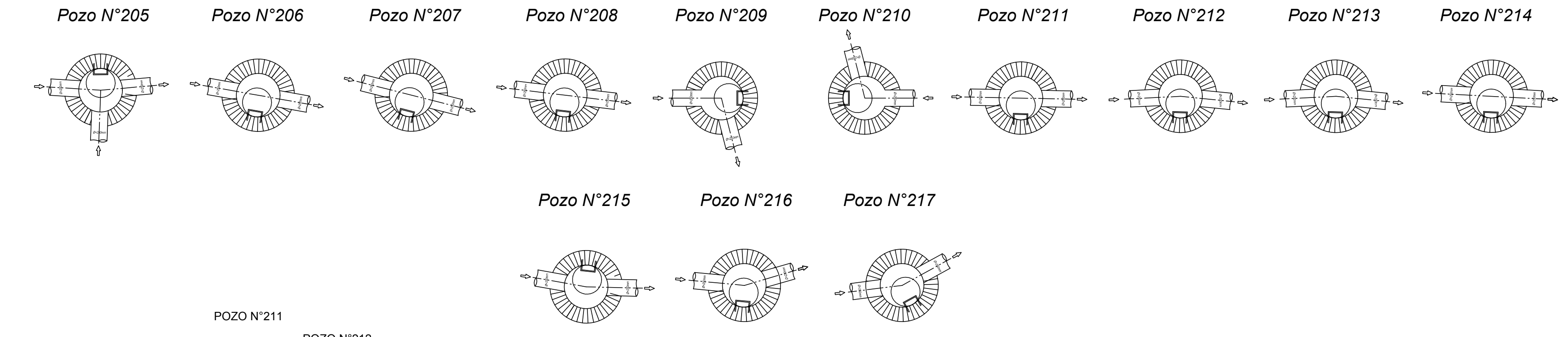
### RED DE ALCANTARILLADO CHILCO - SAN FRANCISCO - SAN LUIS

N°	ESTE (m)	NORTE (m)	C. TERRENO (m)	C. LLEGADA (m)	C. SALIDA (m)
TRAMO 2					
CALLE EL CARMEN - LAS PLAYAS					
174	758471.39	9852527.99	3234.84	3232.79	3232.79
175	758451.96	9852587.71	3229.00	3227.38	3227.34
176	758451.73	9852613.95	3226.88	3225.36	3225.26
177	758522.20	9852765.32	3208.41	3207.03	3207.00
178	758549.82	9852820.73	3203.50	3202.38	3202.38
179	758580.80	9852876.05	3196.34	3194.79	3194.69
180	758630.70	9852941.41	3193.29	3191.89	3191.84
181	758660.60	9852966.80	3190.80	3189.46	3189.41
182	758679.89	9852978.58	3188.90	3187.63	3187.58
183	758696.39	9852988.67	3186.71	3185.31	3185.31
184	758758.92	9853024.18	3179.97	3178.57	3178.37
185	758809.34	9853050.70	3176.42	3174.97	3174.92
186	758874.40	9853093.82	3168.98	3167.60	3167.71
187	758891.44	9853093.82	3168.98	3167.55	3167.52
188	758935.93	9853124.57	3166.21	3164.82	3164.82
189	758993.02	9853162.17	3163.14	3161.63	3161.33
190	759046.56	9853211.90	3157.37	3156.16	3156.16
191	759058.03	9853221.93	3152.98	3151.94	3151.64
192	759157.58	9853344.93	3145.93	3144.41	3144.37
193	759172.59	9853379.00	3143.81	3142.56	3142.41
194	759200.38	9853424.09	3138.47	3138.11	3138.11
195	759246.94	9853462.37	3133.45	3133.97	3133.77
196	759273.67	9853466.73	3132.33	3131.16	3131.16
197	759304.50	9853518.70	3127.51	3126.09	3125.99
198	759368.25	9853562.61	3120.61	3119.16	3119.01
199	759409.69	9853596.67	3117.85	3116.34	3116.19
200	759455.79	9853622.98	3114.91	3113.34	3113.29
201	759495.79	9853644.92	3112.90	3111.12	3111.07
202	759594.01	9853670.31	3110.02	3108.88	3108.83
203	759680.20	9853689.26	3109.88	3108.29	3108.26
204	759713.94	9853697.52	3109.09	3107.49	3107.49
205	759767.37	9853710.33	3108.06	3106.29	3106.26
206	759801.20	9853797.90	3102.60	3101.33	3101.30
207	759804.32	9853800.11	3102.45	3101.15	3101.10
208	759826.52	9853815.02	3098.93	3097.37	3097.33
209	759873.51	9853853.92	3095.62	3094.46	3094.26
210	759890.04	9853892.81	3095.16	3093.65	3093.65
211	760059.86	9853923.97	3088.29	3087.16	3087.11
212	760080.14	9853940.66	3086.45	3084.94	3084.84
213	760111.67	9853958.55	3085.43	3083.80	3083.80
214	760211.22	9853995.52	3081.78	3081.78	3081.78
215	760283.79	9854038.69	3082.08	3079.55	3079.50
216	760329.10	9854068.64	3081.50	3078.08	3078.08
217	760397.46	9854172.67	3075.85	3072.59	3072.59

### PERFIL LONGITUDINAL ESC. H.=1:1000 ESC. V.=1:200

### CALLE SAN FRANCISCO - EL CARMEN - LAS PLAYAS

### DETALLES POZOS



**G.A.D. MUNICIPAL DEL CANTON TISALEO**  
"CATASTRO DE LOS SISTEMAS DE ALCANTARILLADO A TRAVÉS DE LA GEOINFORMACION Y DIGITALIZACION PARA MEJORAR LA CALIDAD DE INFORMACION SANITARIA DE LA PARROQUIA URBANA TISALEO Y CASERIOS SAN LUIS, SAN FRANCISCO, SAN JUAN, SAN DIEGO, ALDAMBA, SANTA LUCÍA LIBERTAD, SANTA LUCÍA-CENTRO, SANTA LUCÍA ARriba, EL CALVARIO DEL CANTÓN TISALEO, PROVINCIA DE TUNGURAHUA"

CONTIENE: RED DE ALCANTARILLADO SANITARIO CHILCO - SAN FRANCISCO - SAN LUIS LAS PLAYAS

PROVINCIA: TUNGURAHUA CANTÓN: TISALEO SECTOR: SAN LUIS

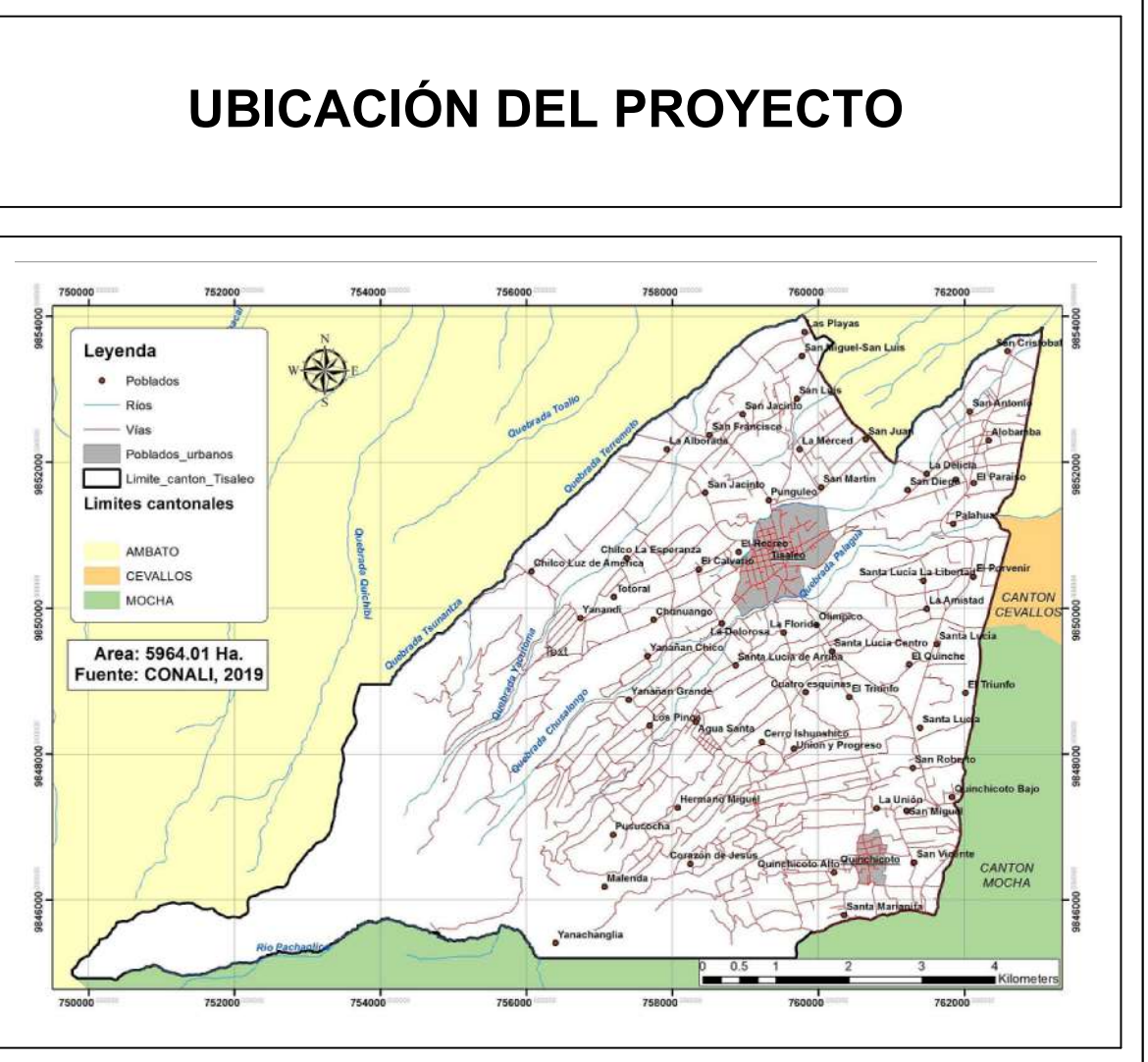
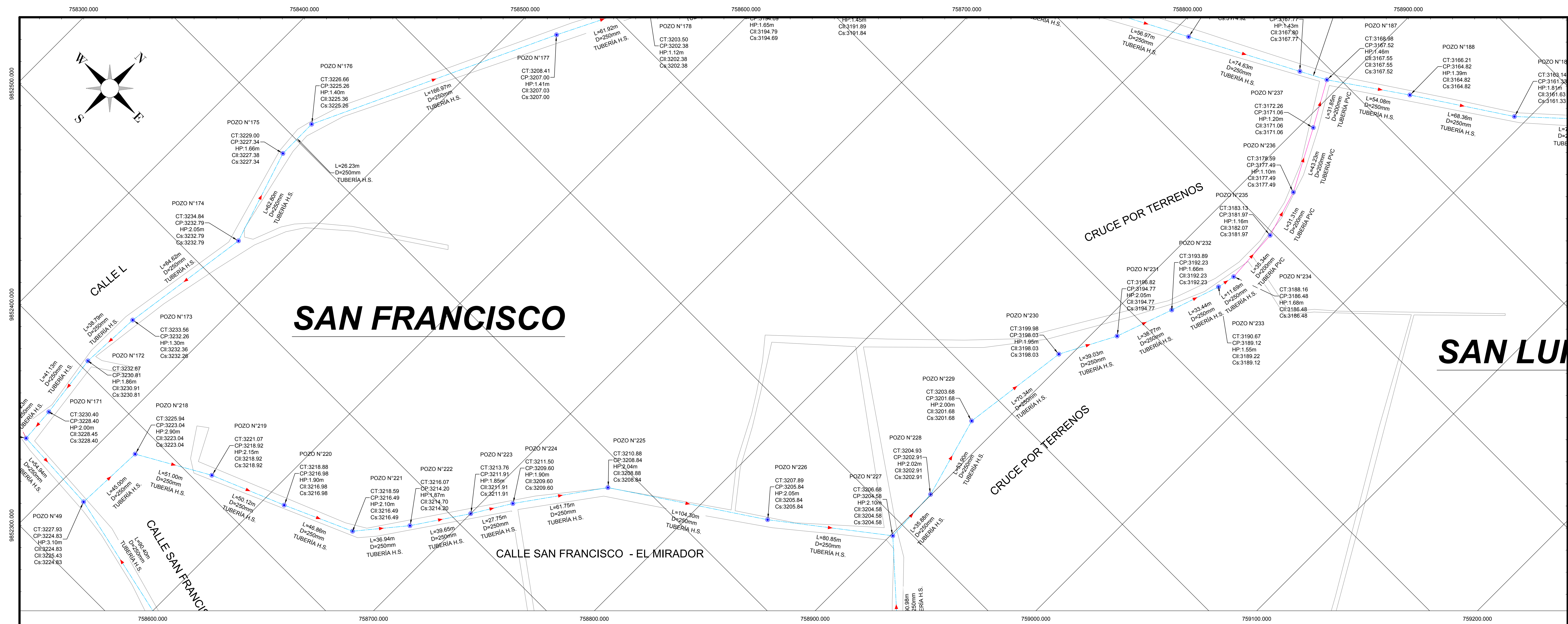
UNIVERSIDAD TÉCNICA DE AMBATO FACULTAD DE INGENIERÍA CIVIL Y MECÁNICA CÁTEDRA DE INGENIERÍA CIVIL

FECHA: AGOSTO, 2022

ELABORADO POR: Egda Tamia Bonita Testa REVISADO POR: Ing. Gato Nuñez Tutor APROBADO POR: Ing. Gato Nuñez Tutor

ESCALA: 1:1000 LÁMINA: LÁMINA - 17 TOTAL LÁMINAS: 24





**DATOS GEOGRÁFICOS**

**DATUM:** WGS84 ZONA 17S

**COORDENADAS UTM:**  
759353.24 m E  
9850780.17 m S

**ALTURA REFERENCIAL:**  
3249 m

**SIMBOLOGÍA**

TUBERÍA H.S. D = 250mm

TUBERÍA PVC D = 200mm

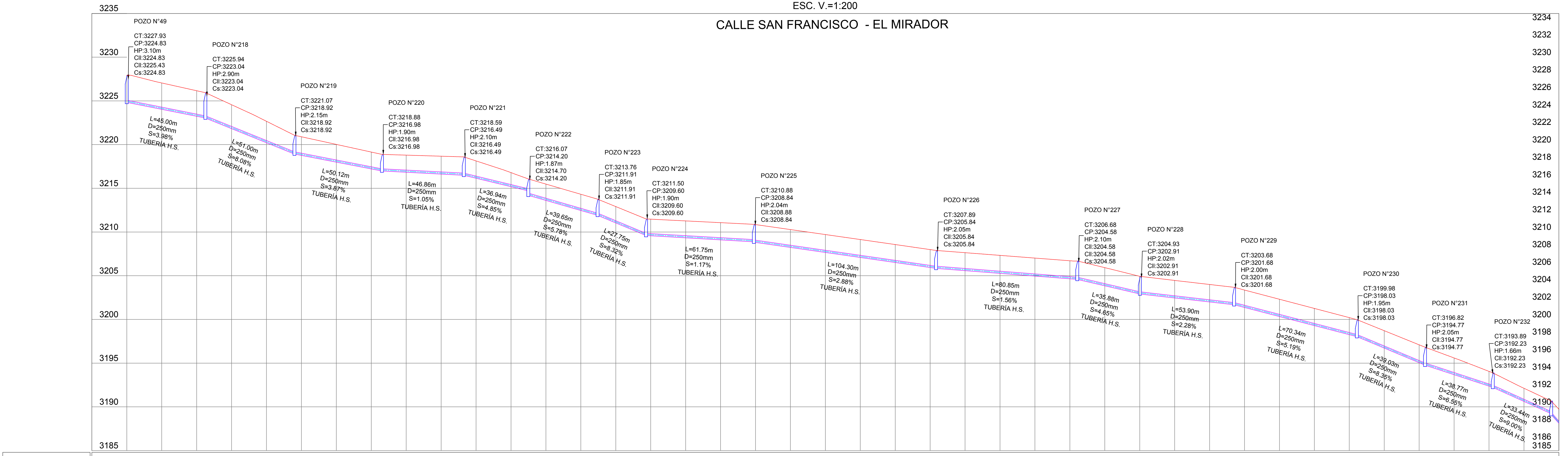
POZO DE REVISIÓN

PERFIL DEL TERRENO

CALLES / VÍAS

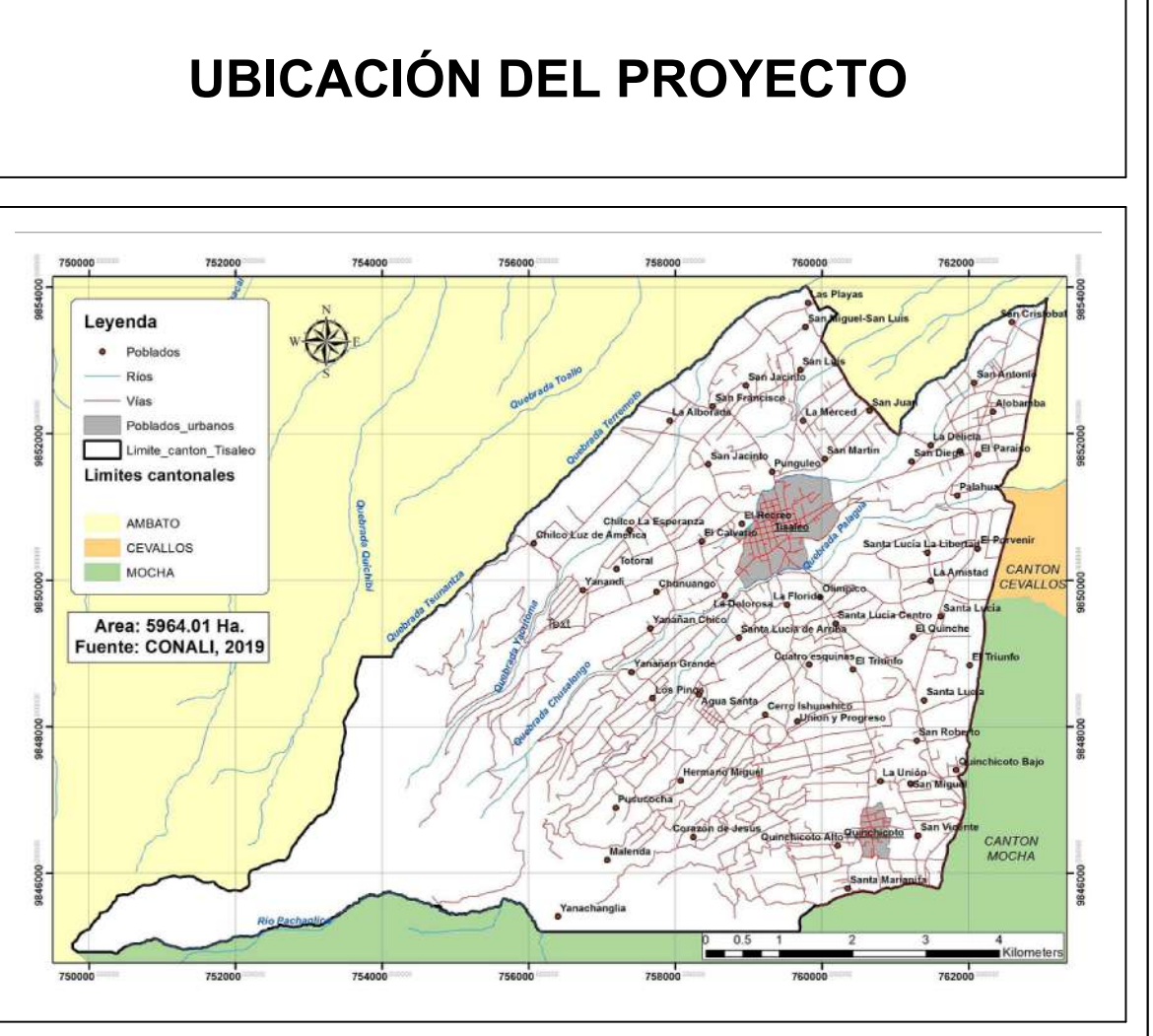
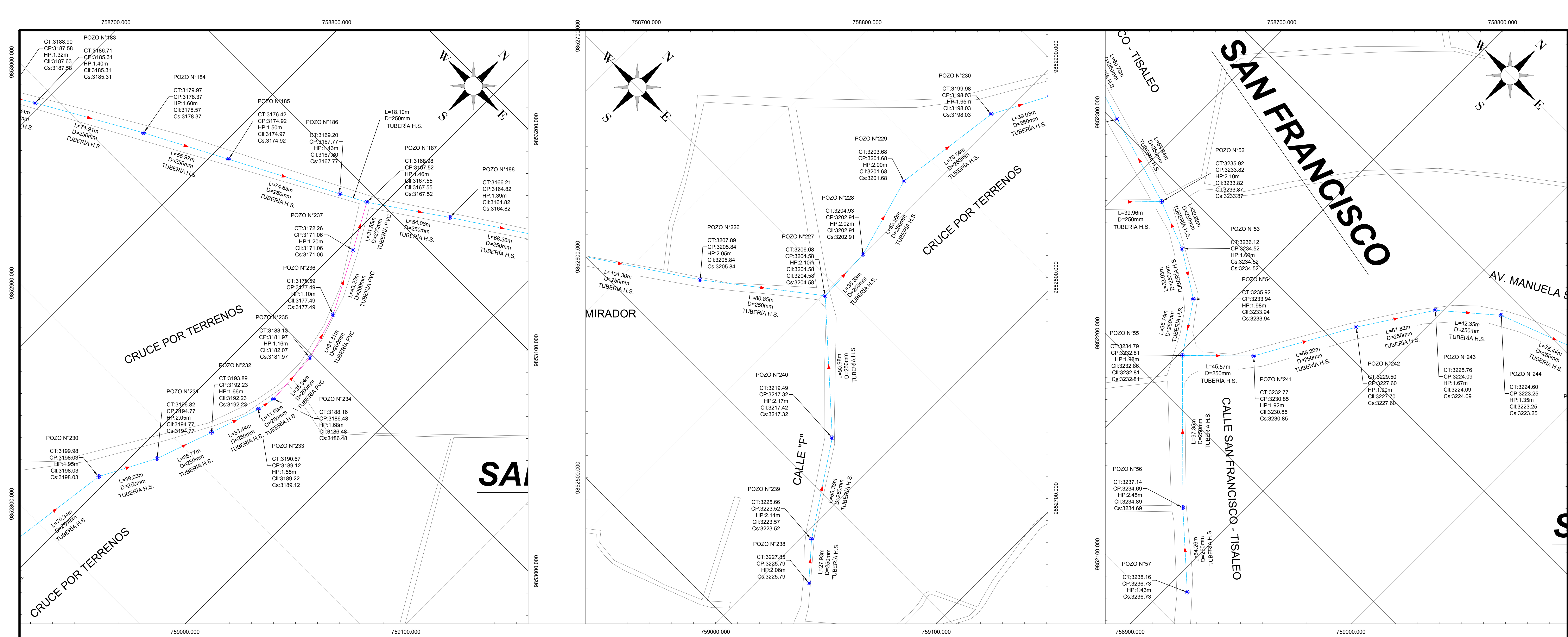
L LONGITUD DEL TRAMO  
D / Ø DIÁMETRO DE TUBERÍA  
S GRADIENTE HIDRÁULICA  
CT COTA TERRENO  
CP COTA PROYECTO  
CII COTA DE LLEGADA  
Cs COTA DE SALIDA  
HP ALTURA DE POZO

**PERFIL LONGITUDINAL**  
ESC. H.=1:1000  
ESC. V.=1:200



ABSCISA	0+000	0+020	0+040	0+060	0+080	0+100	0+120	0+140	0+160	0+180	0+200	0+220	0+240	0+260	0+280	0+300	0+320	0+340	0+360	0+380	0+400	0+420	0+440	0+460	0+480	0+500	0+520	0+540	0+560	0+580	0+600	0+620	0+640	0+660	0+680	0+700	0+720	0+740	0+760	0+780	0+800																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
COTA TERRENO	3227.93	3227.05	3226.16	3224.56	3222.67	3220.89	3219.02	3217.15	3215.28	3213.41	3211.54	3209.67	3207.80	3205.93	3204.06	3202.19	3200.32	3198.45	3196.58	3194.71	3192.84	3190.97	3189.10	3187.23	3185.36	3183.49	3181.62	3179.75	3177.88	3176.01	3174.14	3172.27	3170.40	3168.53	3166.66	3164.79	3162.92	3161.05	3159.18	3157.31	3155.44	3153.57	3151.70	3149.83	3147.96	3146.09	3144.22	3142.35	3140.48	3138.61	3136.74	3134.87	3133.00	3131.13	3129.26	3127.39	3125.52	3123.65	3121.78	3119.91	3118.04	3116.17	3114.30	3112.43	3110.56	3108.69	3106.82	3104.95	3103.08	3101.21	3099.34	3097.47	3095.60	3093.73	3091.86	3089.99	3088.12	3086.25	3084.38	3082.51	3080.64	3078.77	3076.90	3075.03	3073.16	3071.29	3069.42	3067.55	3065.68	3063.81	3061.94	3060.07	3058.20	3056.33	3054.46	3052.59	3050.72	3048.85	3046.98	3045.11	3043.24	3041.37	3039.50	3037.63	3035.76	3033.89	3032.02	3030.15	3028.28	3026.41	3024.54	3022.67	3020.80	3018.93	3017.06	3015.19	3013.32	3011.45	3009.58	3007.71	3005.84	3003.97	3002.10	3000.23	2998.36	2996.49	2994.62	2992.75	2990.88	2989.01	2987.14	2985.27	2983.40	2981.53	2979.66	2977.79	2975.92	2974.05	2972.18	2970.31	2968.44	2966.57	2964.70	2962.83	2960.96	2959.09	2957.22	2955.35	2953.48	2951.61	2949.74	2947.87	2946.00	2944.13	2942.26	2940.39	2938.52	2936.65	2934.78	2932.91	2931.04	2929.17	2927.30	2925.43	2923.56	2921.69	2919.82	2917.95	2916.08	2914.21	2912.34	2910.47	2908.60	2906.73	2904.86	2902.99	2901.12	2899.25	2897.38	2895.51	2893.64	2891.77	2889.90	2888.03	2886.16	2884.29	2882.42	2880.55	2878.68	2876.81	2874.94	2873.07	2871.20	2869.33	2867.46	2865.59	2863.72	2861.85	2860.00	2858.15	2856.30	2854.45	2852.60	2850.75	2848.90	2847.05	2845.20	2843.35	2841.50	2839.65	2837.80	2835.95	2834.10	2832.25	2830.40	2828.55	2826.70	2824.85	2823.00	2821.15	2819.30	2817.45	2815.60	2813.75	2811.90	2810.05	2808.20	2806.35	2804.50	2802.65	2800.80	2798.95	2797.10	2795.25	2793.40	2791.55	2789.70	2787.85	2786.00	2784.15	2782.30	2780.45	2778.60	2776.75	2774.90	2773.05	2771.20	2769.35	2767.50	2765.65	2763.80	2761.95	2760.10	2758.25	2756.40	2754.55	2752.70	2750.85	2749.00	2747.15	2745.30	2743.45	2741.60	2739.75	2737.90	2736.05	2734.20	2732.35	2730.50	2728.65	2726.80	2724.95	2723.10	2721.25	2719.40	2717.55	2715.70	2713.85	2712.00	2710.15	2708.30	2706.45	2704.60	2702.75	2700.90	2699.05	2697.20	2695.35	2693.50	2691.65	2689.80	2687.95	2686.10	2684.25	2682.40	2680.55	2678.70	2676.85	2675.00	2673.15	2671.30	2669.45	2667.60	2665.75	2663.90	2662.05	2660.20	2658.35	2656.50	2654.65	2652.80	2650.95	2649.10	2647.25	2645.40	2643.55	2641.70	2639.85	2638.00	2636.15	2634.30	2632.45	2630.60	2628.75	2626.90	2625.05	2623.20	2621.35	2619.50	2617.65	2615.80	2613.95	2612.10	2610.25	2608.40	2606.55	2604.70	2602.85	2601.00	2599.15	2597.30	2595.45	2593.60	2591.75	2589.90	2588.05	2586.20	2584.35	2582.50	2580.65	2578.80	2576.95	2575.10	2573.25	2571.40	2569.55	2567.70	2565.85	2564.00	2562.15	2560.30	2558.45	2556.60	2554.75	2552.90	2551.05	2549.20	2547.35	2545.50	2543.65	2541.80	2539.95	2538.10	2536.25	2534.40	2532.55	2530.70	2528.85	2527.00	2525.15	2523.30	2521.45	2519.60	2517.75	2515.90	2514.05	2512.20	2510.35	2508.50	2506.65	2504.80	2502.95	2501.10	2499.25	2497.40	2495.55	2493.70	2491.85	2490.00	2488.15	2486.30	2484.45	2482.60	2480.75	2478.90	2477.05	2475.20	2473.35	2471.50	2469.65	2467.80	2465.95	2464.10	2462.25	2460.40	2458.55	2456.70	2454.85	2453.00	2451.15	2449.30	2447.45	2445.60	2443.75	2441.90	2440.05	2438.20	2436.35	2434.50	2432.65	2430.80	2428.95	2427.10	2425.25	2423.40	2421.55	2419.70	2417.85	2416.00	2414.15	2412.30	2410.45	2408.60	2406.75	2404.90	2403.05	2401.20	2399.35	2397.50	2395.65	2393.80	2391.95	2390.10	2388.25	2386.40	2384.55	2382.70	2380.85	2379.00	2377.15	2375.30	2373.45	2371.60	2369.75	2367.90	2366.05	2364.20	2362.35	2360.50	2358.65	2356.80	2354.95	2353.10	2351.25	2349.40	2347.55	2345.70	2343.85	2342.00	2340.15	2338.30	2336.45	2334.60	2332.75	2330.90	2329.05	2327.20	2325.35	2323.50	2321.65	2319.80	2317.95	2316.10	2314.25	2312.40	2310.55	2308.70	2306.85	2305.00	2303.15	2301.30	2299.45	2297.60	2295.75	2293.90	2292.05	2290.20	2288.35	2286.50	2284.65	2282.80	2280.95	2279.10	2277.25	2275.40	2273.55	2271.70	2269.85	2268.00	2266.15	2264.30	2262.45	2260.60	2258.75	2256.90	2255.05	2253.20	2251.35	2249.50	2247.65	2245.80	2243.95	2242.10	2240.25	2238.40	2236.55	2234.70	2232.85	2231.00	2229.15	2227.30	2225.45	2223.60	2221.75	2219.90	2218.05	2216.20	2214.35	2212.50	2210.65	2208.80	2206.95	2205.10	2203.25	2201.40	2199.55	2197.70	2195.85	2194.00	2192.15	2190.30	2188.45	2186.60	2184.75	2182.90	2181.05	2179.20	2177.35	2175.50	2173.65	2171.80	2170.00	2168.15	2166.30	2164.45	2162.60	2160.75	2158.90	2157.05	2155.20	2153.35	2151.50	2149.65	2147.80	2145.95	2144.10	2142.25	2140.40	2138.55	2136.70	2134.85	2133.00	2131.15	2129.30	2127.45	2125.60	2123.75	2121.90	2120.05	2118.20	2116.35	2114.50	2112.65	2110.80	2108.95	2107.10	2105.25	2103.40	2101.55	2099.70	2097.85	2096.00	2094.15	2092.30	2090.45	2088.60	2086.75	2084.90	2083.05	2081.20	2079.35	2077.50	2075.65	2073.80	2071.95	2070.10	2068.25	2066.40	2064.55	2062.70	2060.85	2059.00	2057.15	2055.30	2053.45	2051.60	2049.75	2047.90	2046.05	2044.20	2042.35	2040.50	2038.65	2036.80	2034.95	2033.10	2031.25	2029.40	2027.55	2025.70	2023.85	2022.00	2020.15	2018.30	2016.45	2014.60	2012.75	2010.90	2009.05	2007.20	2005.35	2003.50	2001.65	1999.80	1997.95	1996.10	1994.25	1992.40	1990.55	1988.70	1986.85	1985.00	1983.15	1981.30	1979.45	1977.60	1975.75	1973.90	1972.05	1970.20	1968.35	1966.50	1964.65	1962.80	1960.95	1959.10	1957.25	1955.40	1953.55	1951.70	1949.85	1948.00	1946.15	1944.30	1942.45	1940.60	1938.75	1936.90	1935.05	1933.20	1931.35	1929.50	1927.65	1925.80	1923.95	1922.10	1920.25	1918.40	1916.55	1914.70	1912.85	1911.00	1909.15	1907.30	1905.45	1903.60	1901.75	1899.90	1898.05	1896.20	1894.35	1892.50	1890.65	1888.80	1886.95	1885.10	1883.25	1881.40	1879.55	1877.70	1875.85	1874.00	1872.15	1870.30	1868.45	1866.60	1864.75	1862.90	1861.05	1859.20	1857.35	1855.50	1853.65	1851.80	1849.95	1848.10	1846.25	1844.40	1842.55	1840.70	1838.85	1837.00	1835.15	1833.30	1831.45	1829.60	1827.75	1825.90	1824.05	1822.20	1820.35	1818.50	1816.65	1814.80	1812.95	1811.10	1809.25	1807.40	1805.55	1803.70	1801.85	1799.95	1798.10	1796.25	1794.40	1792.55	1790.70	1788.85	1787.00	1785.15	1783.30	1781.45	1779.60	1777.75	1775.90	1774.05	1772.20	1770.35	1768.50	1766.65	1764.80	1762.95	1761.10	1759.25	1757.40	1755.55	1753.70	1751.85	1750.00	1748.15	1746.30	1744.45	1742.60	1740.75	1738.90	1737.05	1735.20	1733.35	1731.50	1729.65	1727.80	1725.95	1724.10	1722.25	1720.40	1718.55	1716.70	1714.85	1713.00	1711.15	1709.30	1707.45	1705.60	1703.75	1701.90	1700.05	1698.20	1696.35	1694.50	1692.65	1690.80	1688.95	1687.10	1685.25	1683.40	1681.55	1679.70	1677.85	1676.00	1674.15	1672.30	1670.45	1668.60	1666.75	1664.90	1663.05	1661.20	1659.35	1657.50	1655.65	1653.80	1651.95	1650.10	1648.25	1646.40	1644.55	1642.70	1640.85	1639.00	1637.15	1635.30	1633.45	1631.60	1629.75	1627.90	1626.05	1624.20	1622.35	1620.50	1618.65	1616.80	1614.95	1613.10	1611.25	1609.40	1607.55	1605.70	1603.85	1602.00	1600.15	1598.30	1596.45	1594.60	1592.75	1590.90	1589.05	1587.20	1585.35	1583.50	1581.65	1579.80	1577.95	1576.10	1574.25	1572.40	1570.55	1568.70	1566.85	1565.00	1563.15	1561.30	1559.45	1557.60	1555.75	1553.90	1552.05	1550.20	1548.35	1546.50	1544.65	1542.80	1540.95	1539.10	1537.25	1535.40	1533.55	1531.70	1529.85	1528.00	1526.15	1524.30	1522.45	1520.60	1518.75	1516.90





### UBICACIÓN DEL PROYECTO

### DATOS GEOGRÁFICOS

**DATUM:** WGS84 ZONA 17S

**COORDENADAS UTM:**  
759353.24 m E  
9850780.17 m S

**ALTURA REFERENCIAL:**  
3249 m

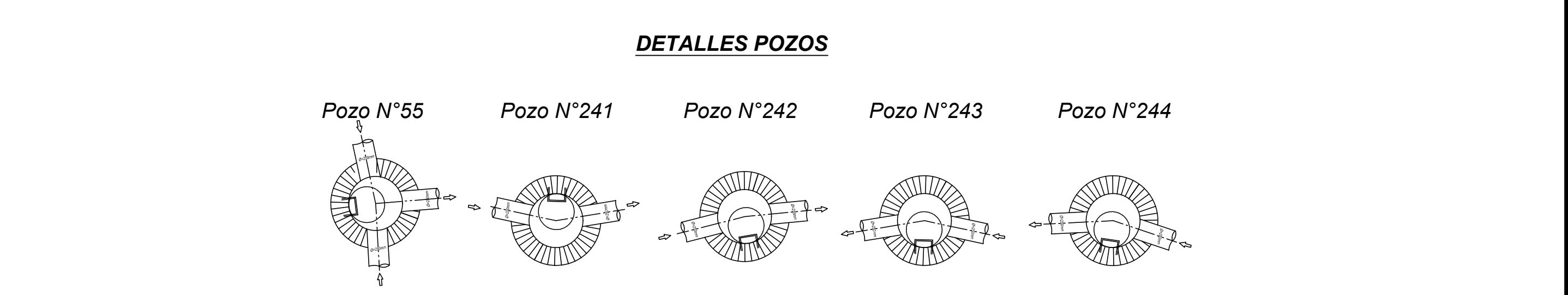
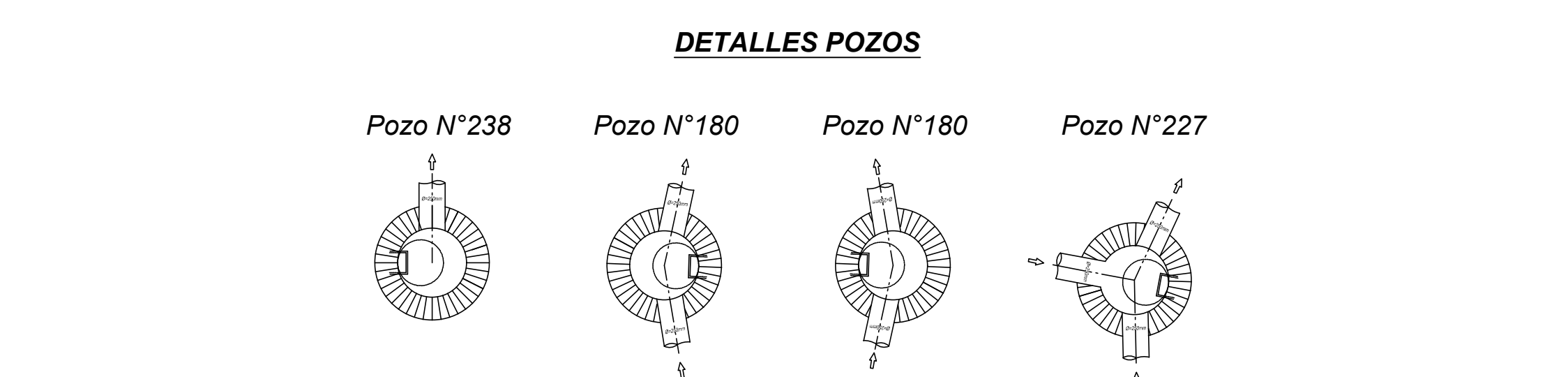
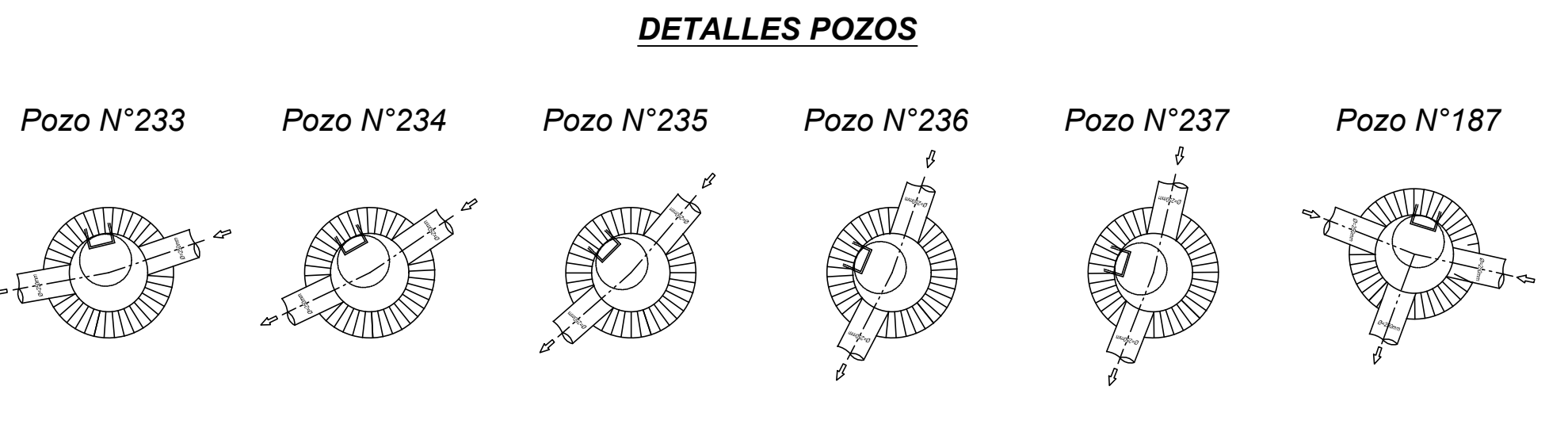
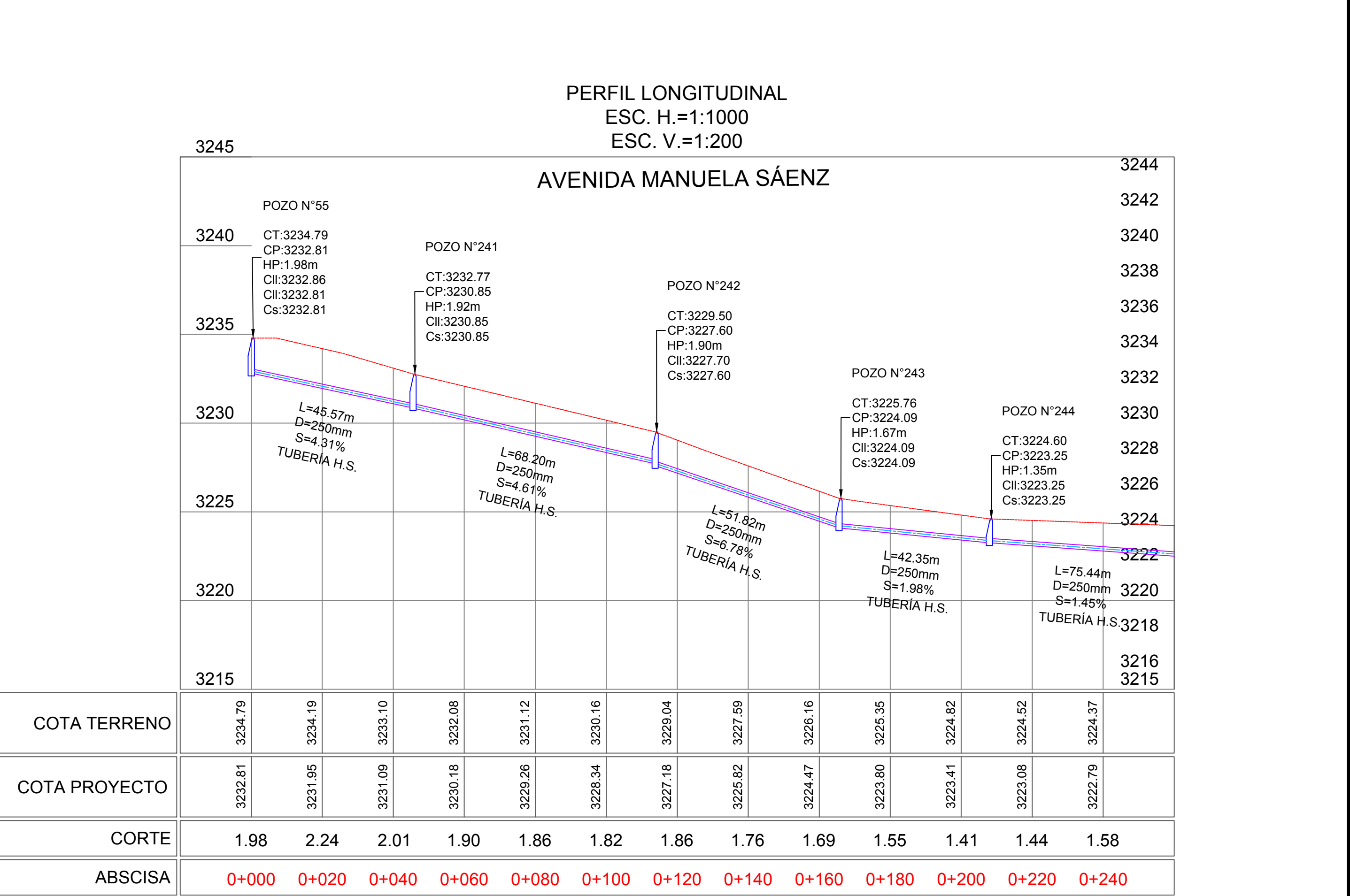
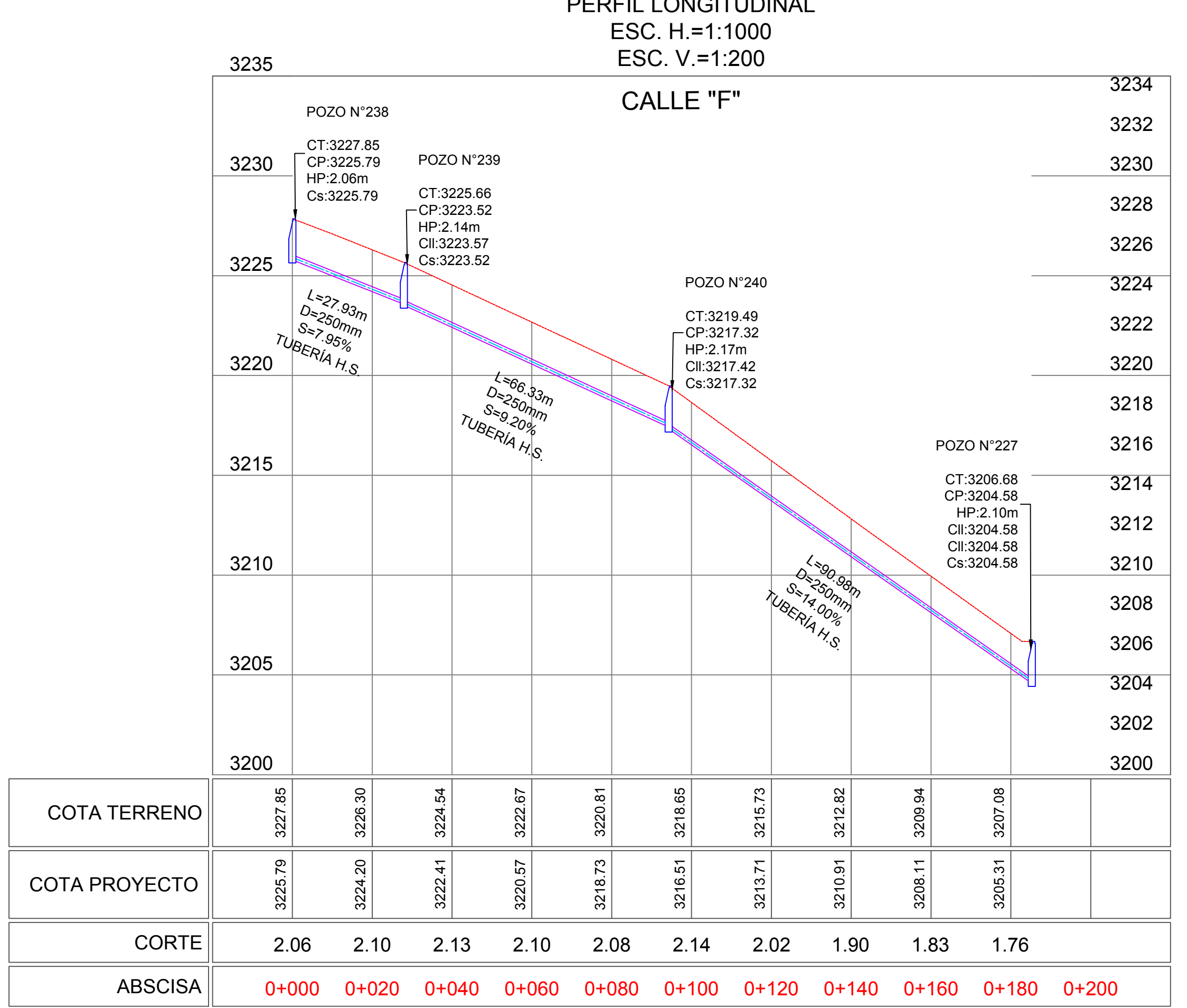
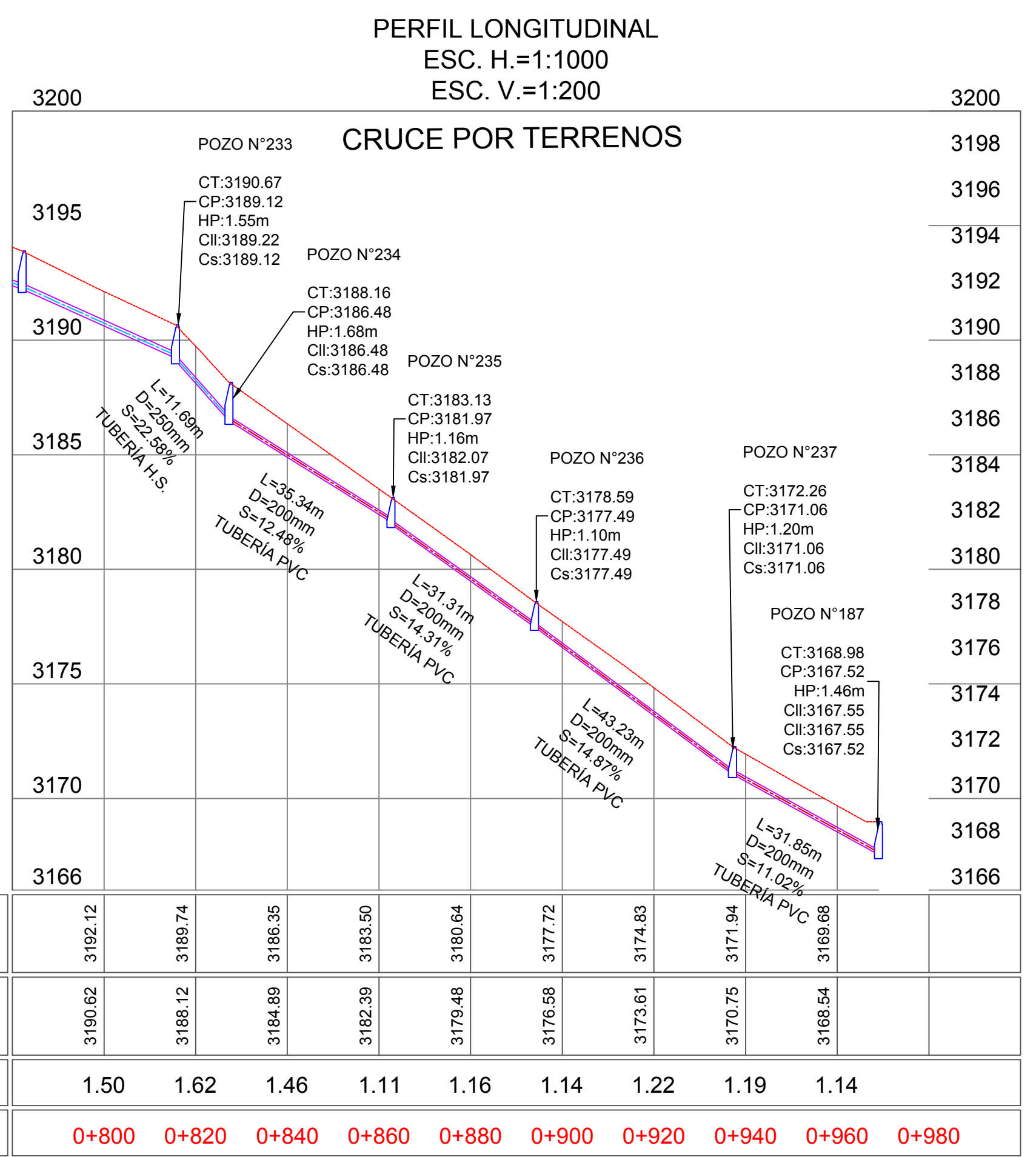
### SIMBOLOGÍA

- TUBERÍA H.S. D = 250mm
- TUBERÍA PVC D = 200mm
- POZO DE REVISIÓN
- PERFIL DEL TERRENO
- CALLES / VÍAS

L	LONGITUD DEL TRAMO
D / Ø	DIÁMETRO DE TUBERÍA
S	GRADIENTE HIDRÁULICA
CT	COTA TERRENO
CP	COTA PROYECTO
CII	COTA DE LLEGADA
Cs	COTA DE SALIDA
HP	ALTURA DE POZO

#### RED DE ALCANTARILLADO CHILCO - SAN FRANCISCO - SAN LUIS

N°	ESTE (m)	NORTE (m)	C. TERRENO	C. LLEGADA	C. SALIDA
<b>CALLE SAN FRANCISCO - EL CARMEN</b>					
225	758750.40	9852583.66	3210.88	3208.88	3208.84
226	758837.26	9852641.41	3207.89	3204.52	3205.84
227	758901.23	9852690.85	3206.68	3204.58	3204.58
228	758959.59	9852726.69	3204.93	3202.91	3202.91
229	758885.00	9852778.57	3203.68	3201.68	3201.68
230	758924.24	9852848.30	3199.98	3198.03	3198.03
231	758912.45	9852882.82	3196.82	3194.77	3194.77
232	758925.38	9852919.37	3193.89	3192.23	3192.23
233	758936.11	9852951.04	3190.67	3189.22	3189.12
234	758938.34	9852962.52	3188.16	3186.48	3186.48
235	758936.15	9852997.79	3183.13	3182.07	3181.97
236	758927.16	9853027.78	3178.59	3177.49	3177.49
237	758906.93	9853065.99	3172.26	3171.06	3171.06
187	758891.44	9853093.82	3168.98	3167.55	3167.52
<b>CALLE 'F'</b>					
238	759023.73	9852553.51	3227.85	-	3225.79
239	759005.24	9852574.44	3225.67	3223.57	3223.52
240	758968.67	9852629.78	3218.49	3217.42	3217.32
227	758901.23	9852690.85	3206.68	3204.58	3204.58
<b>AV. MANUELA SÁENZ</b>					
55	758802.26	9852224.84	3234.79	-	3232.81
241	758834.68	9852256.86	3232.77	3230.85	3230.85
242	758868.07	9852216.33	3229.50	3227.70	3227.60
243	758896.27	9852259.80	3225.78	3224.09	3224.09
244	758926.45	9852387.34	3224.60	3223.25	3223.25
245	758998.93	9852414.23	3224.05	3222.16	3222.16
246	759041.66	9852437.74	3224.29	3220.67	3220.62
247	759072.74	9852474.51	3223.24	3219.54	3219.54
248	759112.49	9852503.89	3218.04	3216.14	3216.14
249	759207.15	9852566.76	3206.03	3204.57	3204.53
250	759282.36	9852579.26	3196.37	3195.07	3194.67
251	759343.72	9852603.17	3193.13	3191.81	3191.77
252	759416.24	9852656.30	3184.92	3183.07	3182.87
253	759468.68	9852691.53	3178.93	3178.51	3178.31
254	759478.52	9852698.62	3178.78	3178.01	3177.71
255	759553.96	9852755.35	3171.45	3169.38	3169.08
256	759630.69	9852809.65	3163.22	3161.49	3161.29
257	759667.99	9852833.93	3162.51	3160.91	3160.86
251	759721.51	9852917.26	3158.24	3158.40	3158.36
262	759779.08	9852914.26	3156.80	3155.00	3154.96
263	759812.03	9852951.78	3155.42	3153.76	3153.72
264	759856.68	9853033.46	3149.94	3148.16	3147.76
265	759900.62	9853110.11	3144.94	3143.87	3143.82
266	759953.10	9853204.67	3138.45	3137.55	3137.51
267	759982.01	9853259.23	3137.35	3135.75	3135.71
268	759998.07	9853265.27	3137.06	3135.41	3135.41
269	759995.76	9853302.42	3136.56	3134.86	3134.86
270	759997.07	9853312.20	3136.41	3134.73	3134.73



#### G.A.D. MUNICIPAL DEL CANTÓN TISALEO

"CATÁSTRO DE LOS SISTEMAS DE ALCANTARILLADO A TRAVÉS DE LA GEOINFORMACIÓN Y DIGITALIZACIÓN PARA MEJORAR LA CALIDAD DE INFORMACIÓN SANITARIA DE LA PARROQUIA URBANA TISALEO Y CASERIOS SAN FRANCISCO, SAN FRANCISCO, SAN JUAN, SAN DIEGO, ALDABAMA, SANTA LUCÍA LIBERTAD, SANTA LUCÍA-CENTRO, SANTA LUCÍA ARRIBA, EL CALVARIO DEL CANTÓN TISALEO, PROVINCIA DE TUNGURAHUA"

CONTIENE: RED DE ALCANTARILLADO SANITARIO CHILCO - SAN FRANCISCO - SAN LUIS  
BARRIO EL CARMEN

PROVINCIA: TUNGURAHUA CANTÓN: TISALEO SECTOR: SAN FRANCISCO

FECHA: AGOSTO, 2022 ESCALA: 1:1000

ELABORADO POR: REVISADO POR: APROBADO POR: LÁMINA: 19 TOTAL LÁMINAS: 24

Egita, Tamia Bonita Testa Ing. Gato Nuñez Tutor Ing. Gato Nuñez Tutor

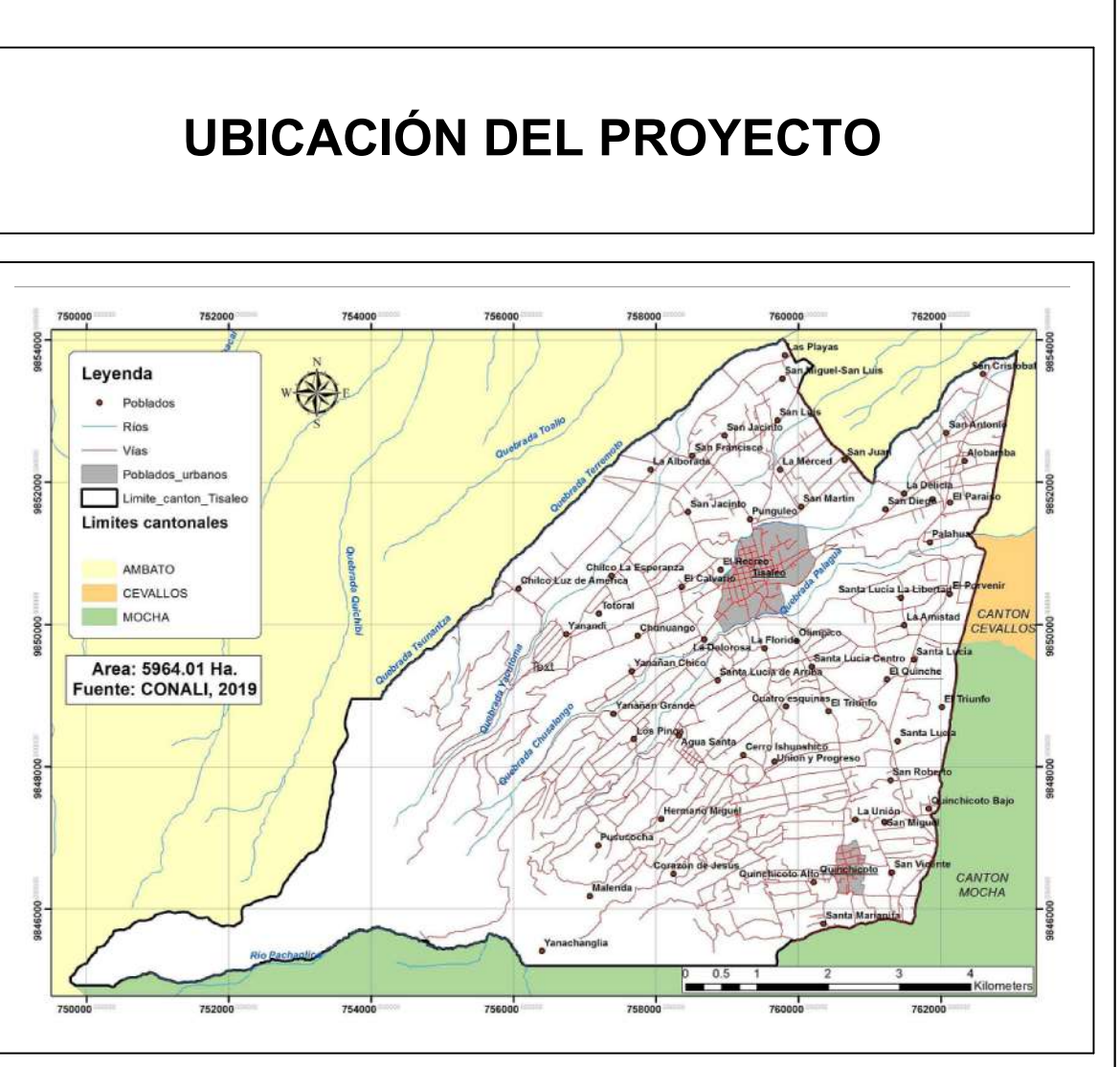
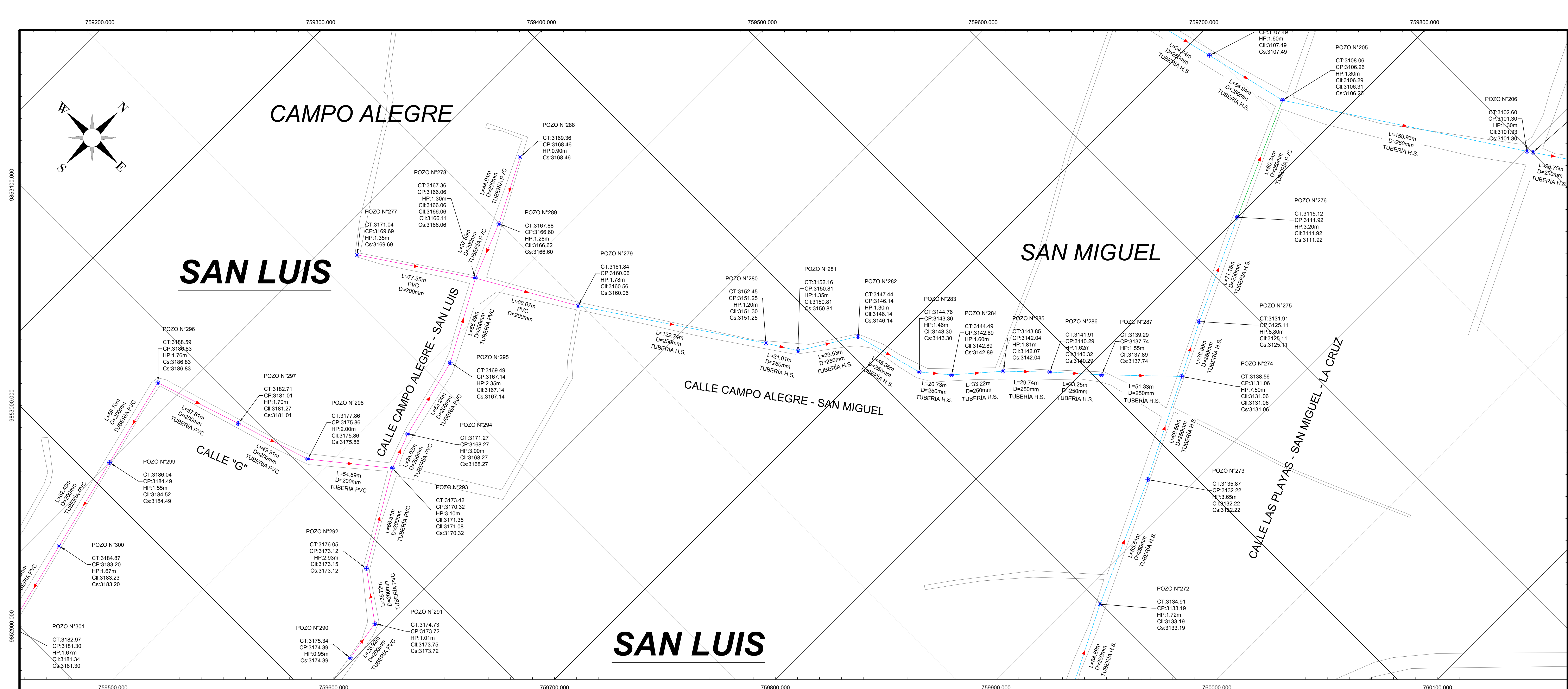












### DATOS GEOGRÁFICOS

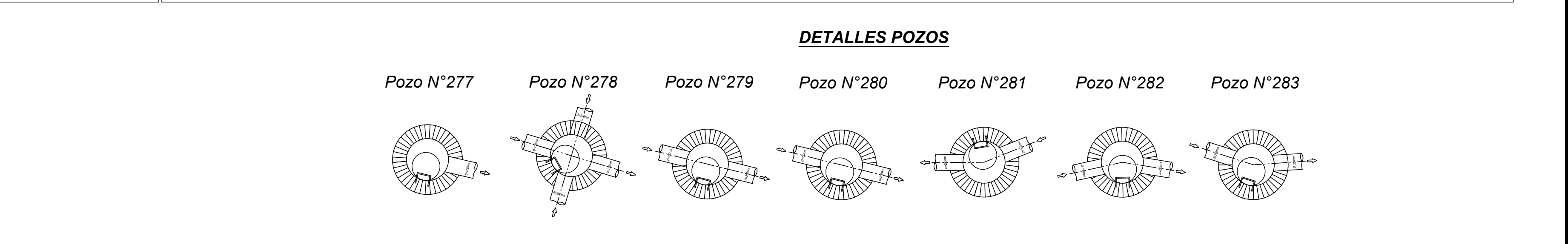
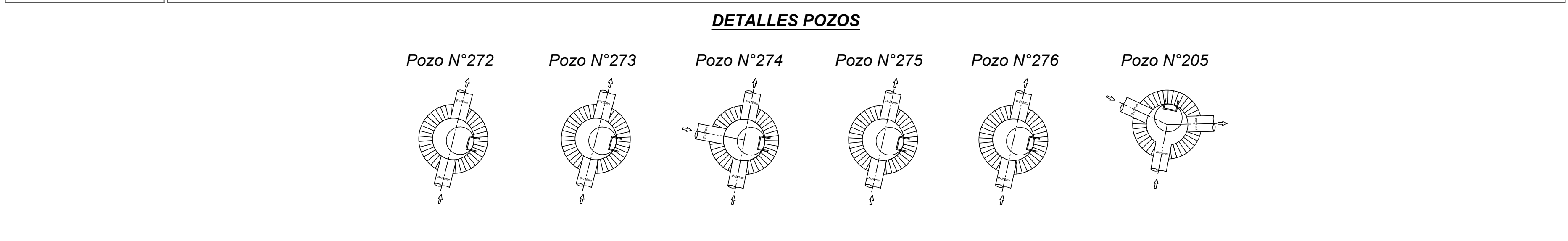
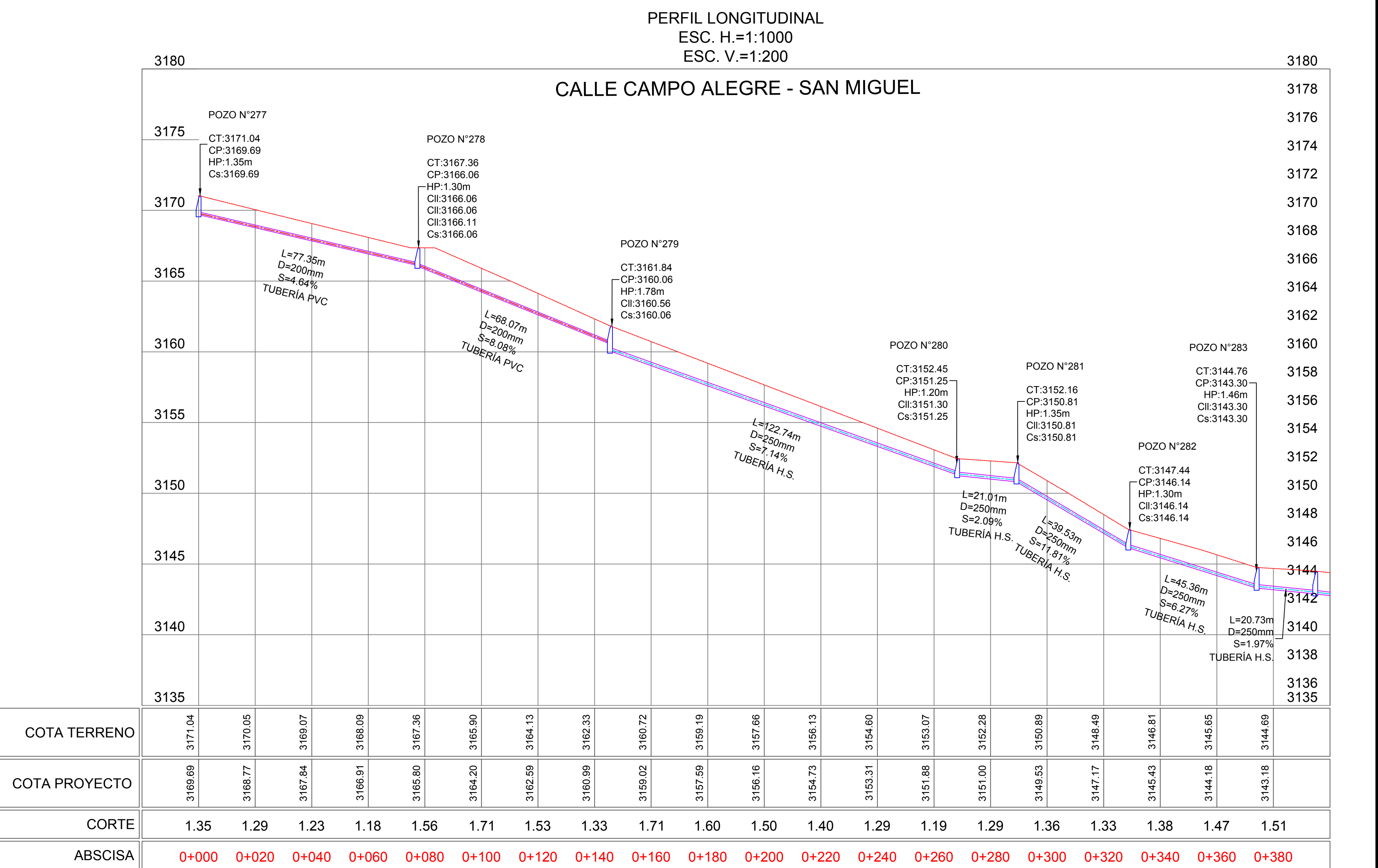
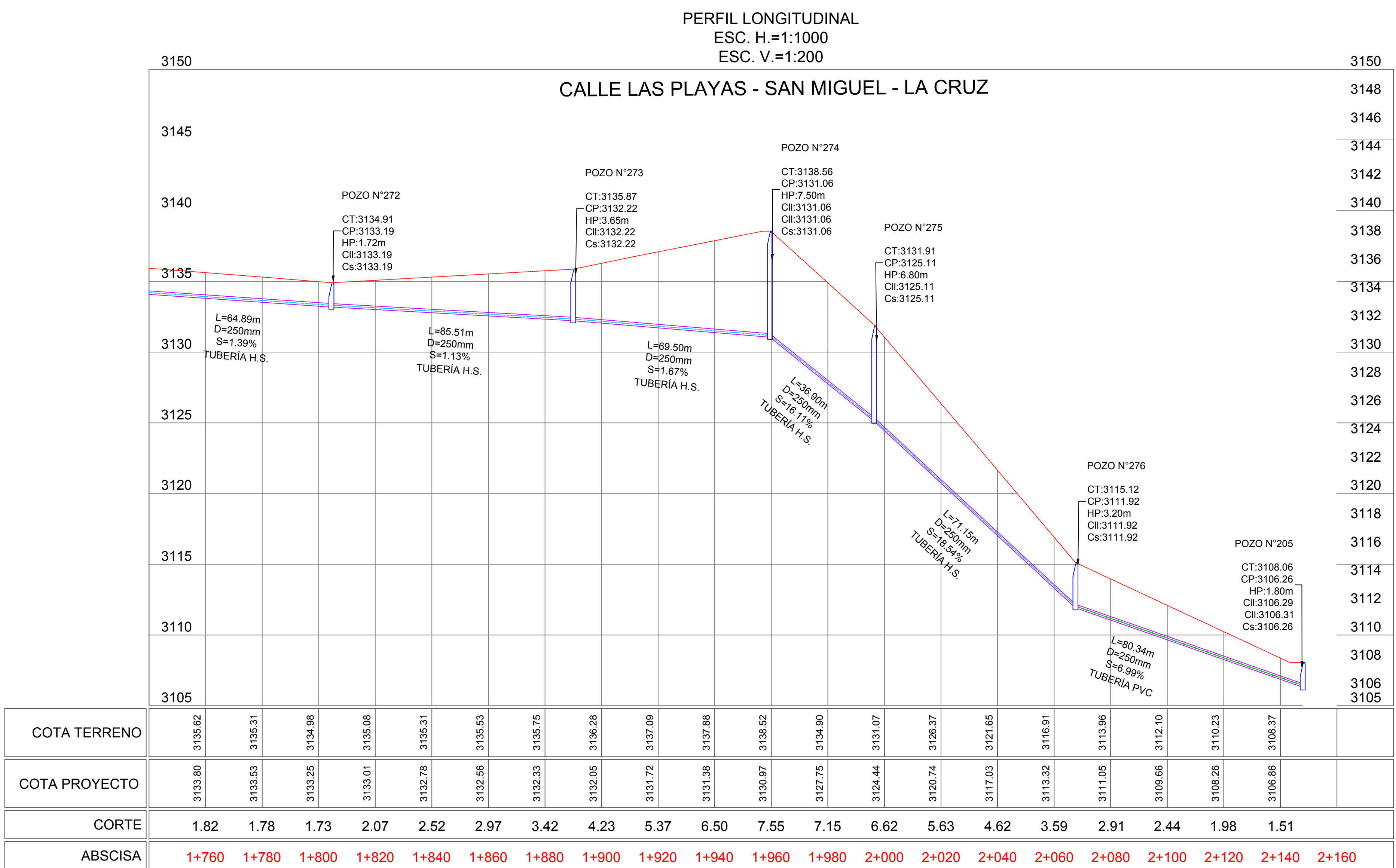
**DATUM:** WGS84 ZONA 17S

**COORDENADAS UTM:**  
759353.24 m E  
9850780.17 m S

**ALTURA REFERENCIAL:**  
3249 m

- ### SIMBOLOGÍA
- TUBERÍA H.S. D = 250mm —
  - TUBERÍA PVC D = 250mm —
  - TUBERÍA PVC D = 200mm —
  - POZO DE REVISIÓN ●
  - PERFIL DEL TERRENO - - -
  - CALLES / VÍAS —

- L LONGITUD DEL TRAMO
- D / Ø DIÁMETRO DE TUBERÍA
- S GRADIENTE HIDRÁULICA
- CT COTA TERRENO
- CP COTA PROYECTO
- CI COTA DE LLEGADA
- Cs COTA DE SALIDA
- HP ALTURA DE POZO



### RED DE ALICANTARILLADO CHILCO - SAN FRANCISCO - SAN LUIS

N°	ESTE (m)	NORTE (m)	C. TERRENO	C. LLEGADA	C. SALIDA
<b>CALLE LAS PLAYAS - SAN MIGUEL - LA CRUZ</b>					
270	759997.07	985312.20	3167.38	3134.73	3134.73
271	759942.27	9853341.51	3135.94	3134.09	3134.09
272	759912.95	9853399.40	3134.91	3133.19	3133.19
273	759878.09	9853477.49	3135.87	3132.22	3132.22
274	759846.78	9853539.53	3136.56	3131.06	3131.06
275	759829.92	985372.36	3131.91	3125.11	3125.11
276	759799.93	9853368.88	3115.12	3111.92	3111.92
205	759767.37	9853710.33	3108.06	3108.31	3108.26
<b>CALLE CAMPO ALEGRE - SAN MIGUEL</b>					
277	759416.19	9853221.08	3171.04	3169.69	3169.69
278	759482.40	9853264.21	3167.38	3166.11	3166.06
279	759541.39	9853298.17	3161.84	3160.56	3160.06
280	759643.46	9853366.34	3152.45	3151.30	3151.25
281	759661.34	9853377.39	3152.16	3150.81	3150.81
282	759682.11	9853411.02	3147.44	3146.14	3146.14
283	759725.94	9853422.71	3146.73	3143.30	3143.30
284	759741.83	9853436.01	3144.49	3142.89	3142.89
285	759763.59	9853461.11	3143.85	3142.07	3142.04
286	759785.02	9853481.74	3141.91	3140.32	3140.29
287	759809.74	9853503.97	3139.29	3137.89	3137.74
284	759846.78	9853539.53	3136.56	3131.06	3131.06
<b>CALLE CAMPO ALEGRE - SAN LUIS</b>					
<b>TRAMO 1</b>					
288	759447.78	9853339.34	3169.36	-	3168.46
289	759468.37	9853299.40	3167.88	3166.63	3166.60
278	759482.40	9853264.21	3167.38	3168.08	3168.06
<b>TRAMO 2</b>					
290	759597.75	9853035.55	3175.34	-	3174.39
291	759593.32	9853062.11	3174.73	3173.75	3173.72
292	759564.62	9853083.37	3176.05	3173.15	3173.12
293	759530.94	9853140.49	3173.42	3171.35	3170.32
294	759522.38	9853162.92	3171.27	3168.27	3168.27
295	759506.32	9853214.55	3169.49	3167.14	3167.14
278	759482.40	9853264.21	3167.38	3168.06	3168.06

### G.A.D. MUNICIPAL DEL CANTON TISALEO

"CATASTRO DE LOS SISTEMAS DE ALICANTARILLADO A TRAVÉS DE LA GEOINFORMACIÓN Y DIGITALIZACIÓN PARA MEJORAR LA CALIDAD DE INFORMACIÓN SANITARIA DE LA PARROQUIA URBANA TISALEO Y CASERIOS SAN LUIS, SAN FRANCISCO, SAN JUAN, SAN DIEGO, ALDABANA, SANTA LUCÍA LIBERTAD, SANTA LUCÍA-CENTRO, SANTA LUCÍA ARRIBA, EL CALVARIO DEL CANTÓN TISALEO, PROVINCIA DE TUNGURAHUA"

CONTIENE: RED DE ALICANTARILLADO SANITARIO CHILCO - SAN FRANCISCO - SAN LUIS - BARRIO SAN MIGUEL

PROVINCIA: TUNGURAHUA CANTÓN: TISALEO SECTOR: SAN LUIS

FECHA: AGOSTO, 2022 ESCALA: 1:1000

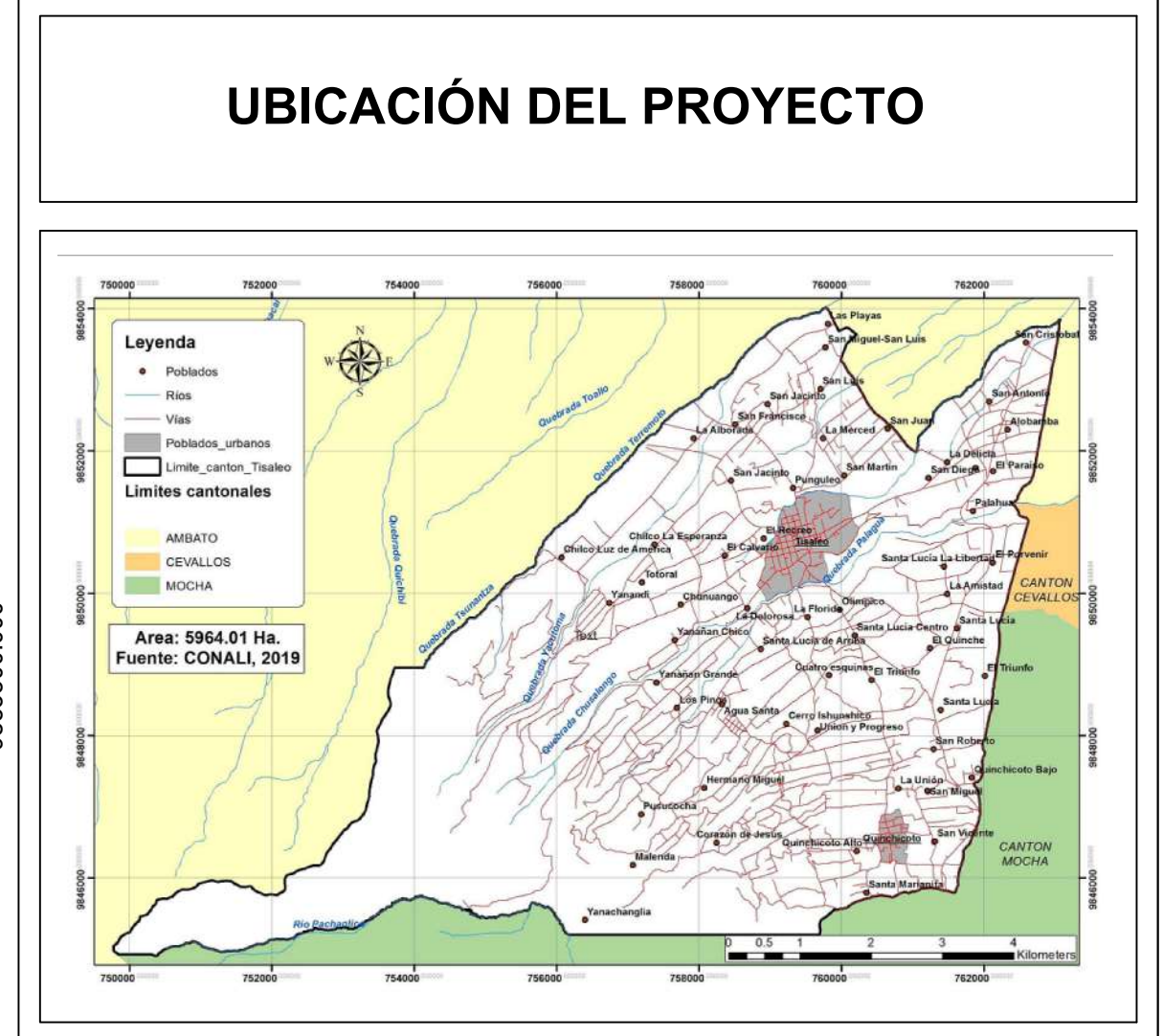
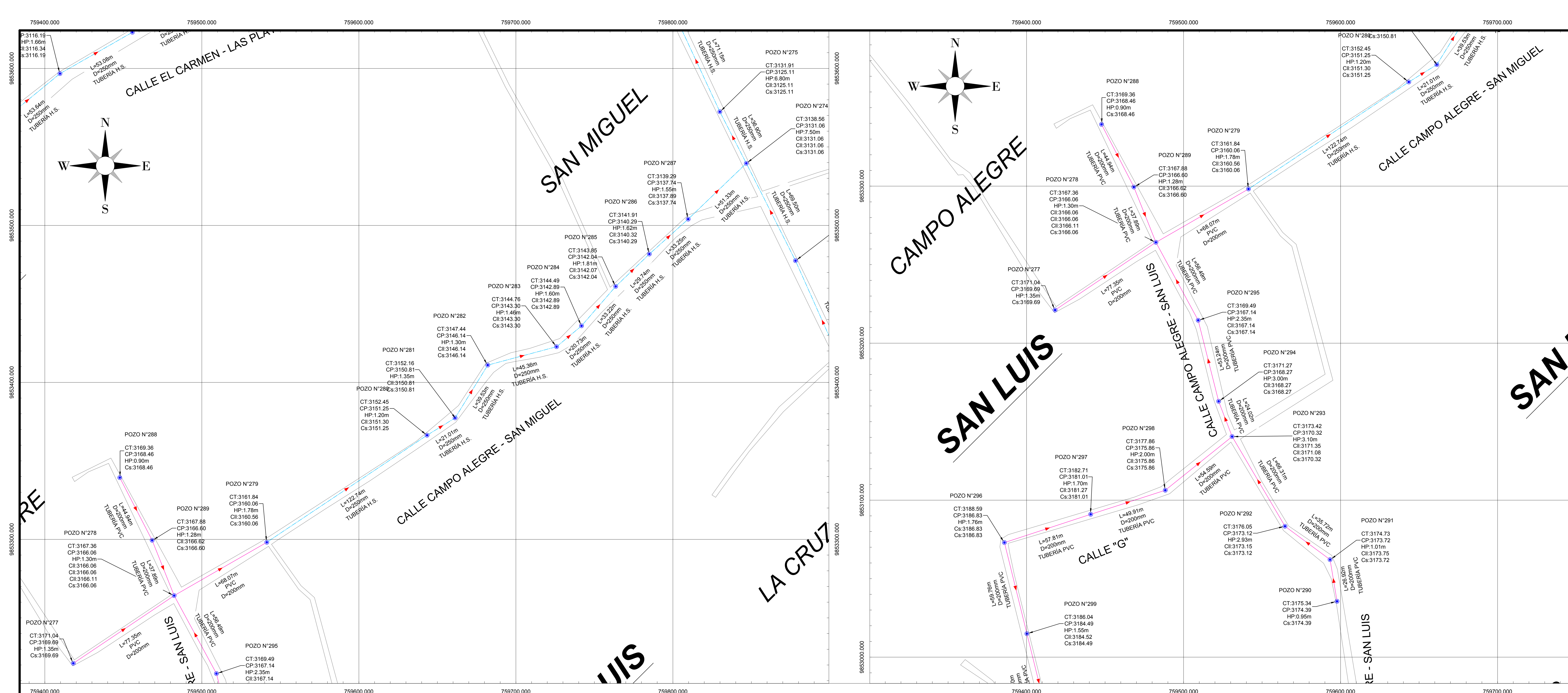
ELABORADO POR: REVISADO POR: APROBADO POR:

Ing. Gato Nuñez Tutor Ing. Gato Nuñez Tutor Ing. Gato Nuñez Tutor

TOTAL LÁMINAS: 22 LÁMINA: 22

24





### DATOS GEOGRÁFICOS

**DATUM:** WGS84 ZONA 17S

**COORDENADAS UTM:**  
759353.24 m E  
9850780.17 m S

**ALTURA REFERENCIAL:**  
3249 m

### SIMBOLOGÍA

TUBERÍA H.S. D = 250mm

TUBERÍA PVC D = 200mm

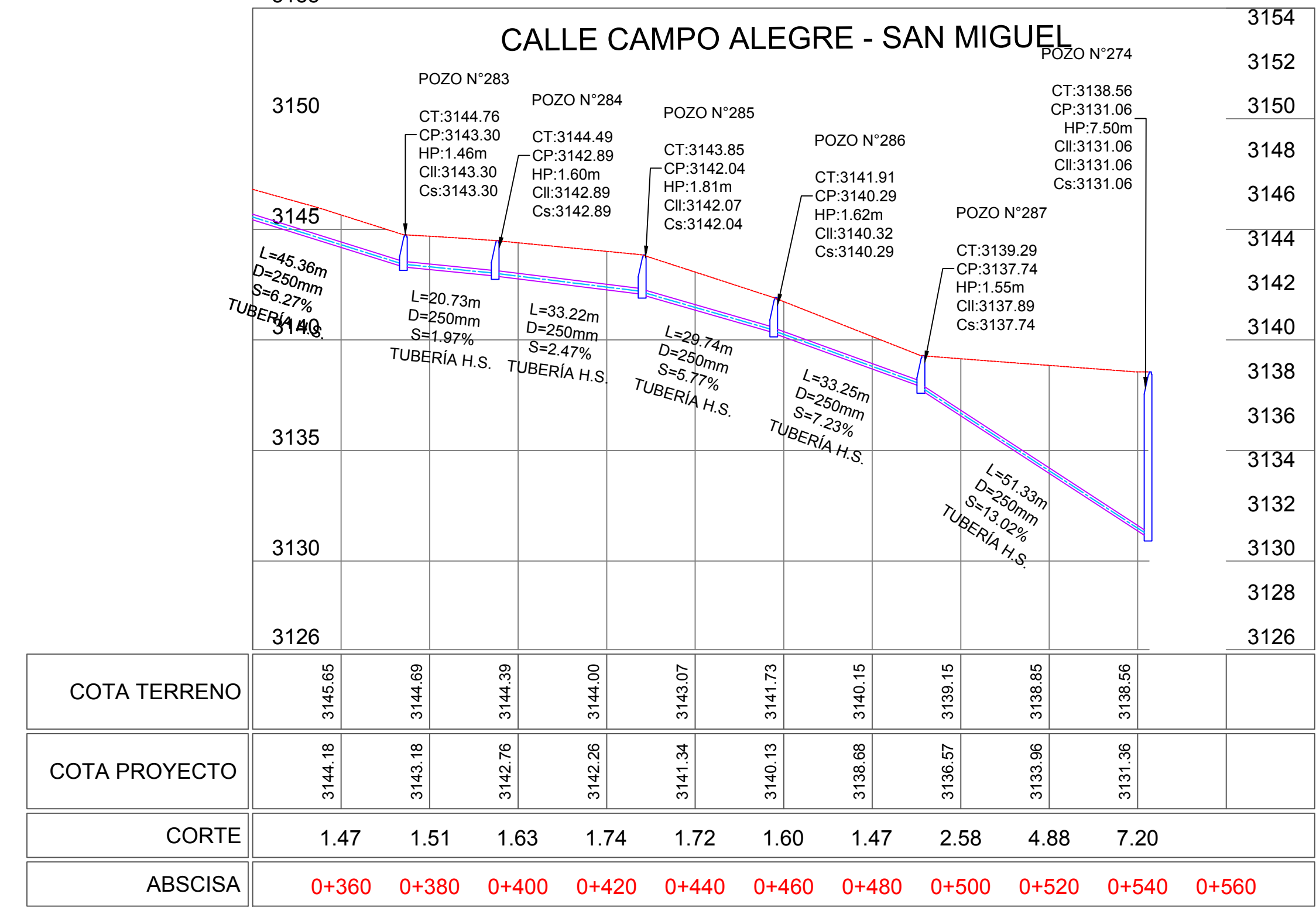
POZO DE REVISIÓN

PERFIL DEL TERRENO

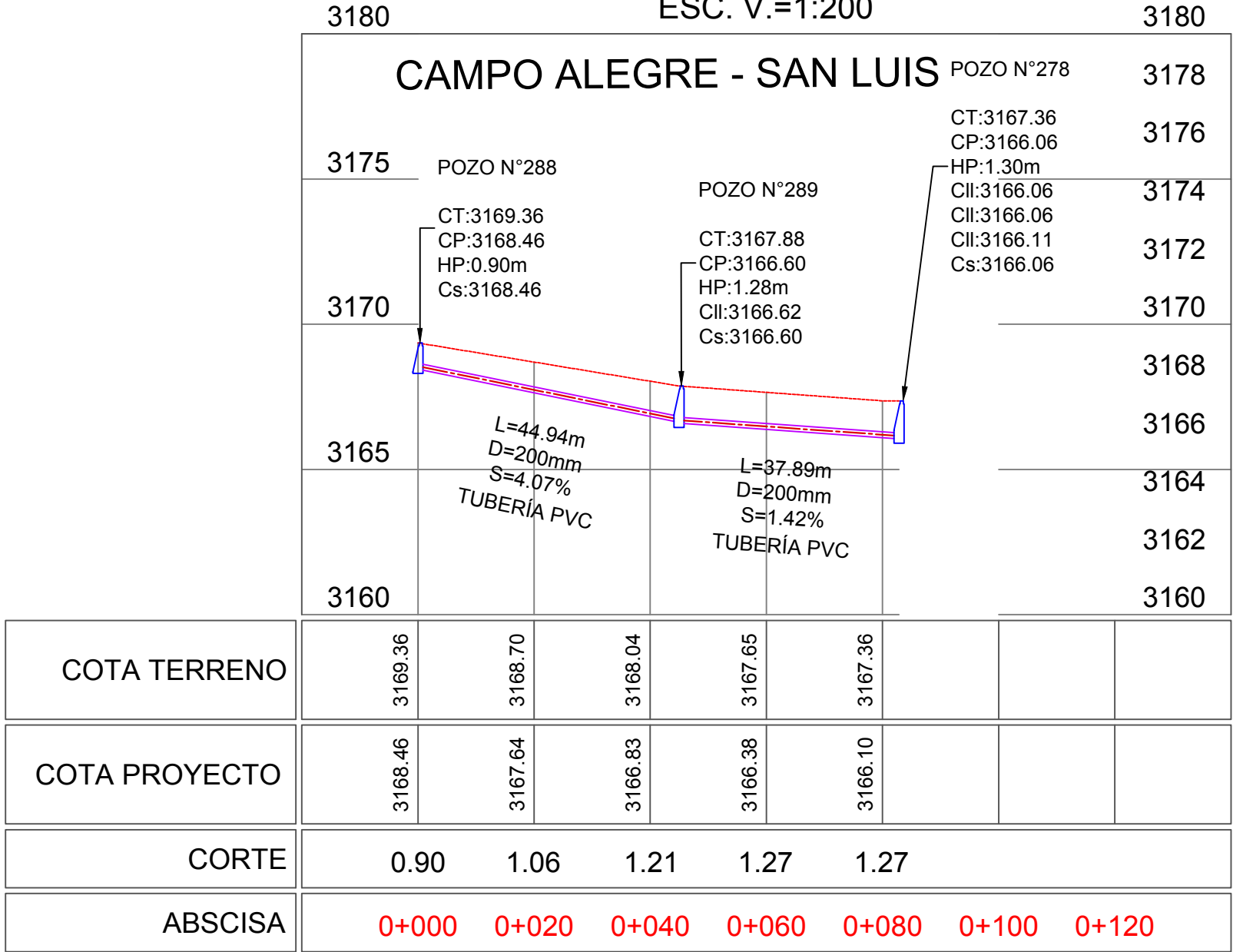
CALLES / VÍAS

L LONGITUD DEL TRAMO  
D / Ø DIÁMETRO DE TUBERÍA  
S GRADIENTE HIDRÁULICA  
CT COTA TERRENO  
CP COTA PROYECTO  
CII COTA DE LLEGADA  
Cs COTA DE SALIDA  
Cp ALTURA DE POZO

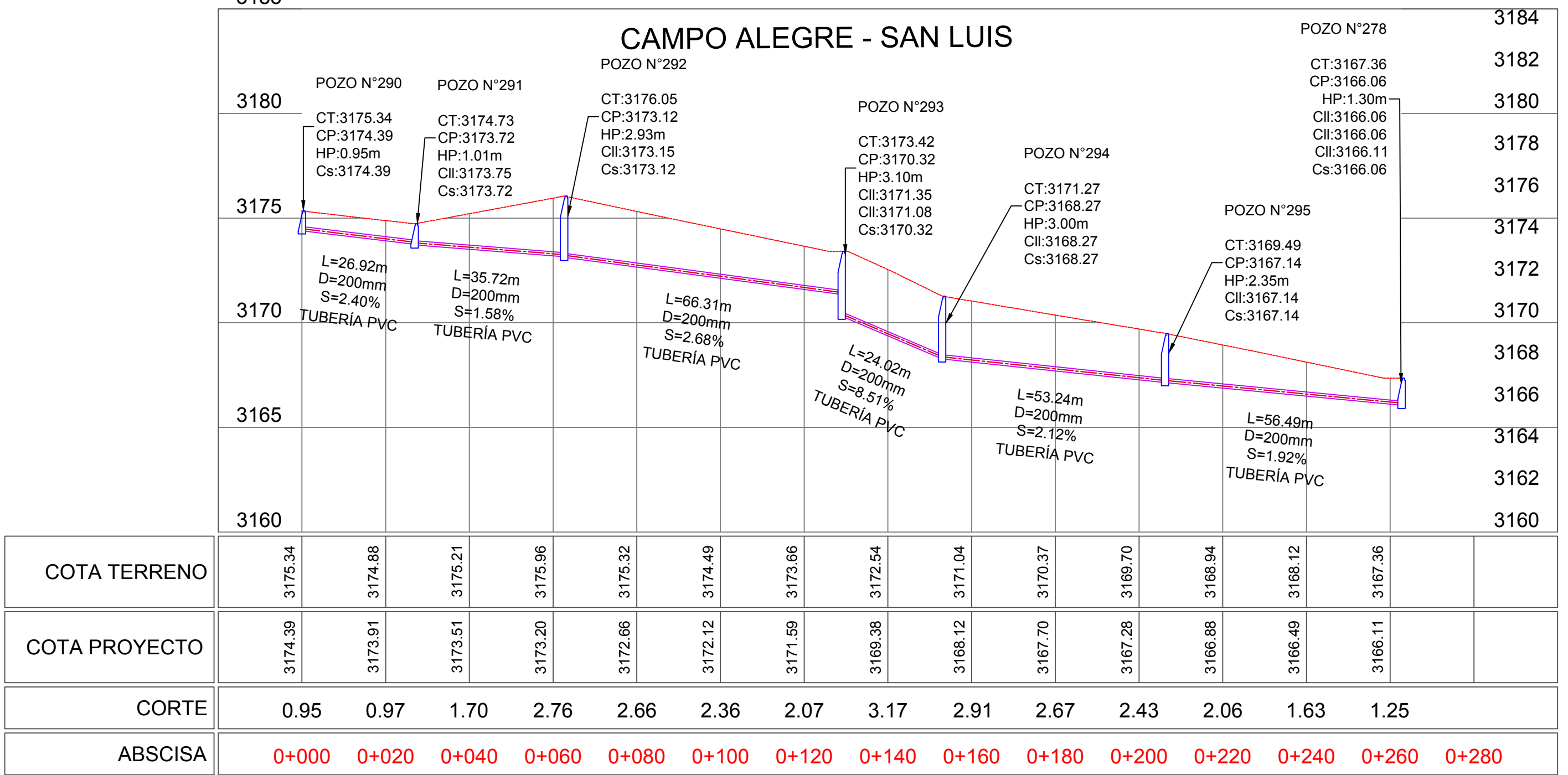
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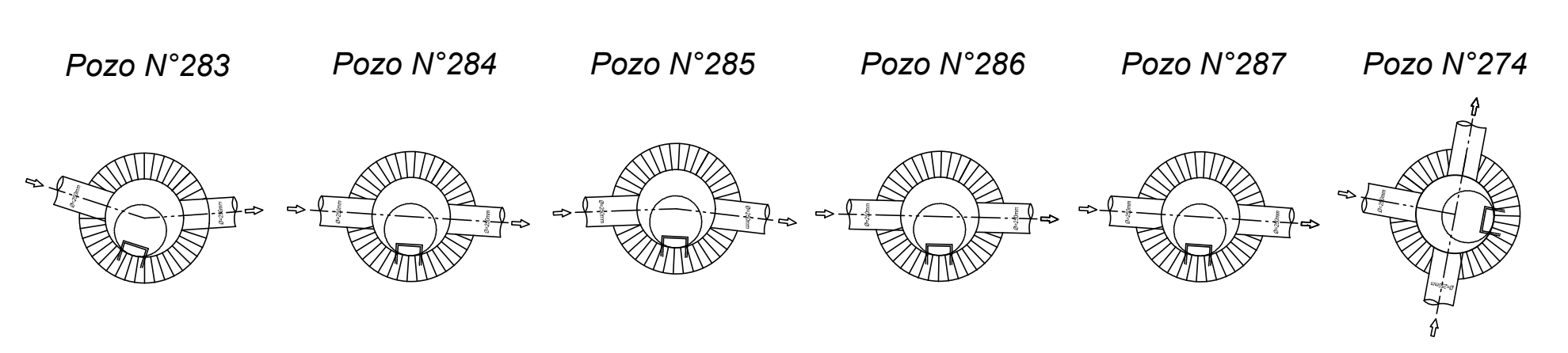
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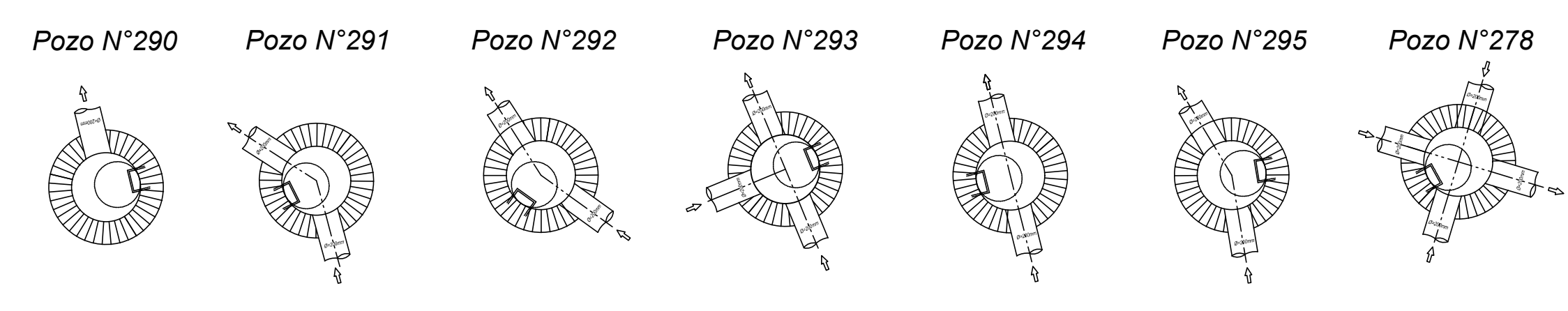
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DETALLES POZOS



DETALLES POZOS



### RED DE ALCANTARILLADO CHILCO - SAN FRANCISCO - SAN LUIS

N°	ESTE (m)	NORTE (m)	C. TERRENO (C. LLEGADA)	C. SALIDA
270	759997.07	9853312.20	3136.41	3134.73
271	759942.27	9853341.51	3135.94	3134.09
272	759912.95	9853399.40	3134.91	3133.19
273	759875.09	9853477.49	3135.97	3132.22
274	759846.76	9853539.53	3138.56	3131.06
275	759829.92	9853572.36	3131.91	3125.11
276	759799.93	9853636.88	3115.12	3111.92
205	759767.37	9853710.33	3108.06	3106.26

### CALLE CAMPO ALEGRE - SAN MIGUEL

N°	ESTE (m)	NORTE (m)	C. TERRENO (C. LLEGADA)	C. SALIDA
277	759416.19	9853221.08	3171.04	3169.69
278	759482.40	9853264.21	3167.36	3166.11
279	759541.39	9853298.17	3161.84	3160.56
280	759643.46	9853366.34	3152.45	3151.30
281	759661.34	9853377.39	3152.16	3150.81
282	759682.11	9853411.02	3147.44	3146.14
283	759725.94	9853422.71	3144.76	3143.30
284	759741.83	9853436.01	3144.49	3142.89
285	759765.59	9853461.11	3143.85	3142.07
286	759785.02	9853481.74	3141.91	3140.29
287	759809.74	9853503.97	3139.29	3137.69
274	759846.76	9853539.53	3138.56	3131.06

### CALLE CAMPO ALEGRE - SAN LUIS

N°	ESTE (m)	NORTE (m)	C. TERRENO (C. LLEGADA)	C. SALIDA
288	759447.76	9853339.34	3169.36	3168.46
289	759458.37	9853359.40	3167.88	3166.63
278	759482.40	9853264.21	3167.36	3166.06

### TRAMO 1

N°	ESTE (m)	NORTE (m)	C. TERRENO (C. LLEGADA)	C. SALIDA
290	759597.75	9853035.55	3175.34	3174.39
291	759593.32	9853062.11	3174.73	3173.72
292	759564.62	9853053.37	3176.05	3173.15
293	759530.94	9853140.49	3173.42	3171.32
294	759522.36	9853162.92	3171.27	3168.27
295	759509.32	9853214.55	3169.49	3167.14
278	759482.40	9853264.21	3167.36	3166.06

### TRAMO 2

N°	ESTE (m)	NORTE (m)	C. TERRENO (C. LLEGADA)	C. SALIDA
296	759522.36	9853162.92	3171.27	3168.27
295	759509.32	9853214.55	3169.49	3167.14
278	759482.40	9853264.21	3167.36	3166.06

**G.A.D. MUNICIPAL DEL CANTON TISALEO**

"CATASTRO DE LOS SISTEMAS DE ALCANTARILLADO A TRAVÉS DE LA GEOINFORMACIÓN Y DIGITALIZACIÓN PARA MEJORAR LA CALIDAD DE INFORMACIÓN SANITARIA DE LA PARROQUIA URBANA TISALEO Y CASERIOS SAN LUIS, SAN FRANCISCO, SAN JUAN, SAN DIEGO, ALDABAMA, SANTA LUCÍA-LA LIBERTAD, SANTA LUCÍA-CENTRO, SANTA LUCÍA ARRIBA, EL CALVARIO DEL CANTÓN TISALEO, PROVINCIA DE TUNGURAHUA"

CONTIENE: RED DE ALCANTARILLADO SANITARIO CHILCO - SAN FRANCISCO - SAN LUIS - BARRIO CAMPO ALEGRE

PROVINCIA: TUNGURAHUA CANTÓN: TISALEO SECTOR: SAN LUIS

FECHA: AGOSTO, 2022 ESCALA: 1:1000

ELABORADO POR: REVISADO POR: APROBADO POR:

Ing. Gabriela Testa Ing. Gato Nuñez Tutor Ing. Gato Nuñez Tutor

LÁMINA: LÁMINA - 23 TOTAL LÁMINAS: 24



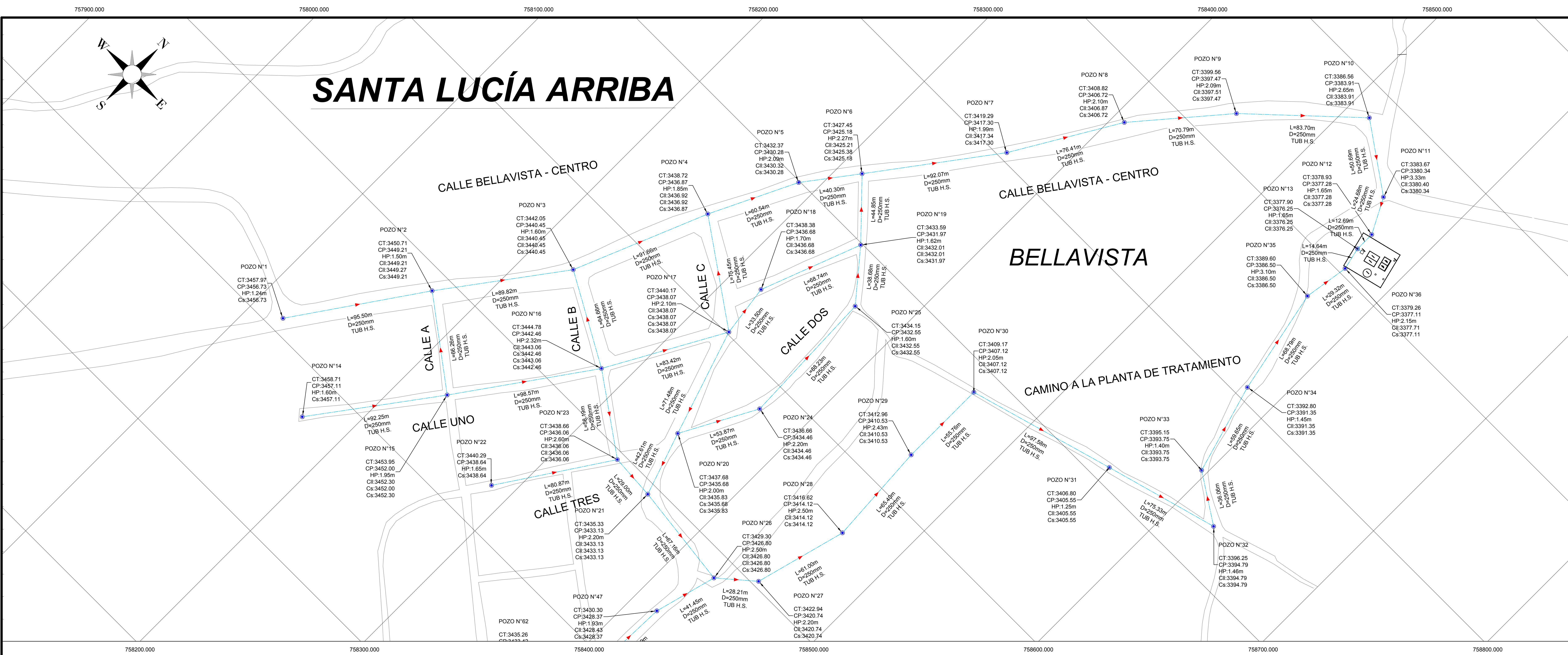




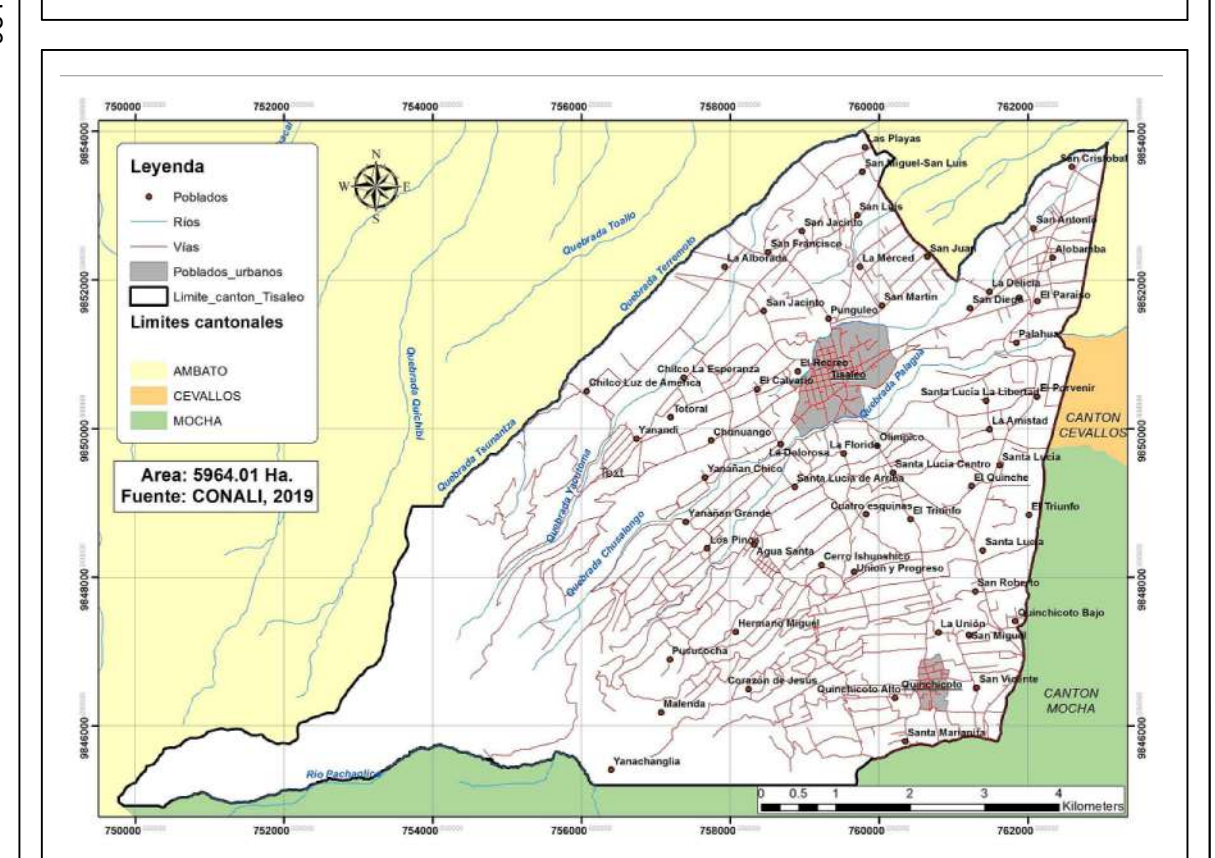
***RED DE ALCANTARILLADO  
SANITARIO BELLAVISTA***



# SANTA LUCÍA ARRIBA



## UBICACIÓN DEL PROYECTO



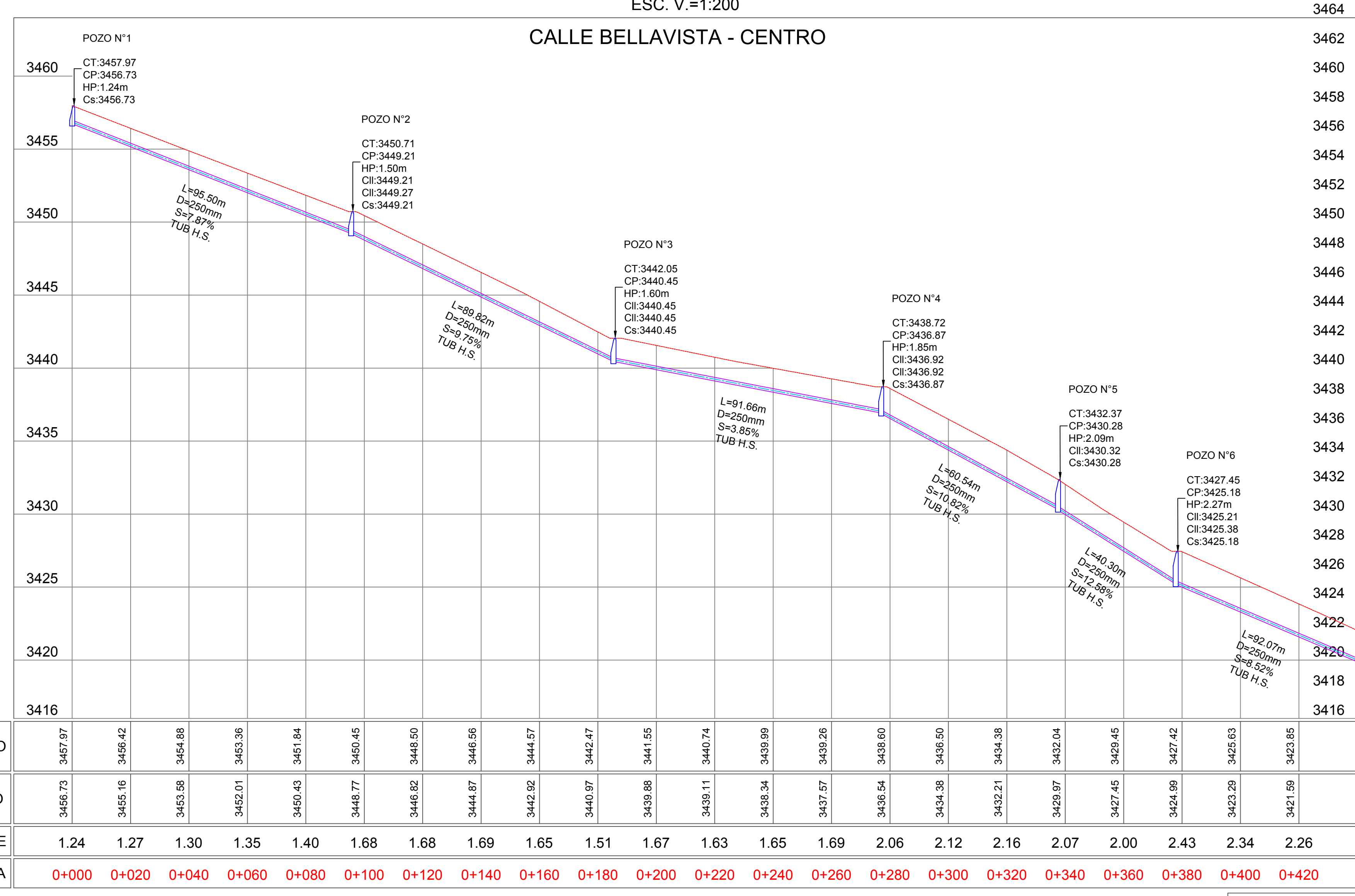
## DATOS GEOGRÁFICOS

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**COORDENADAS UTM:** 759353.24 m E, 9850780.17 m S  
**ALTURA REFERENCIAL:** 3249 m

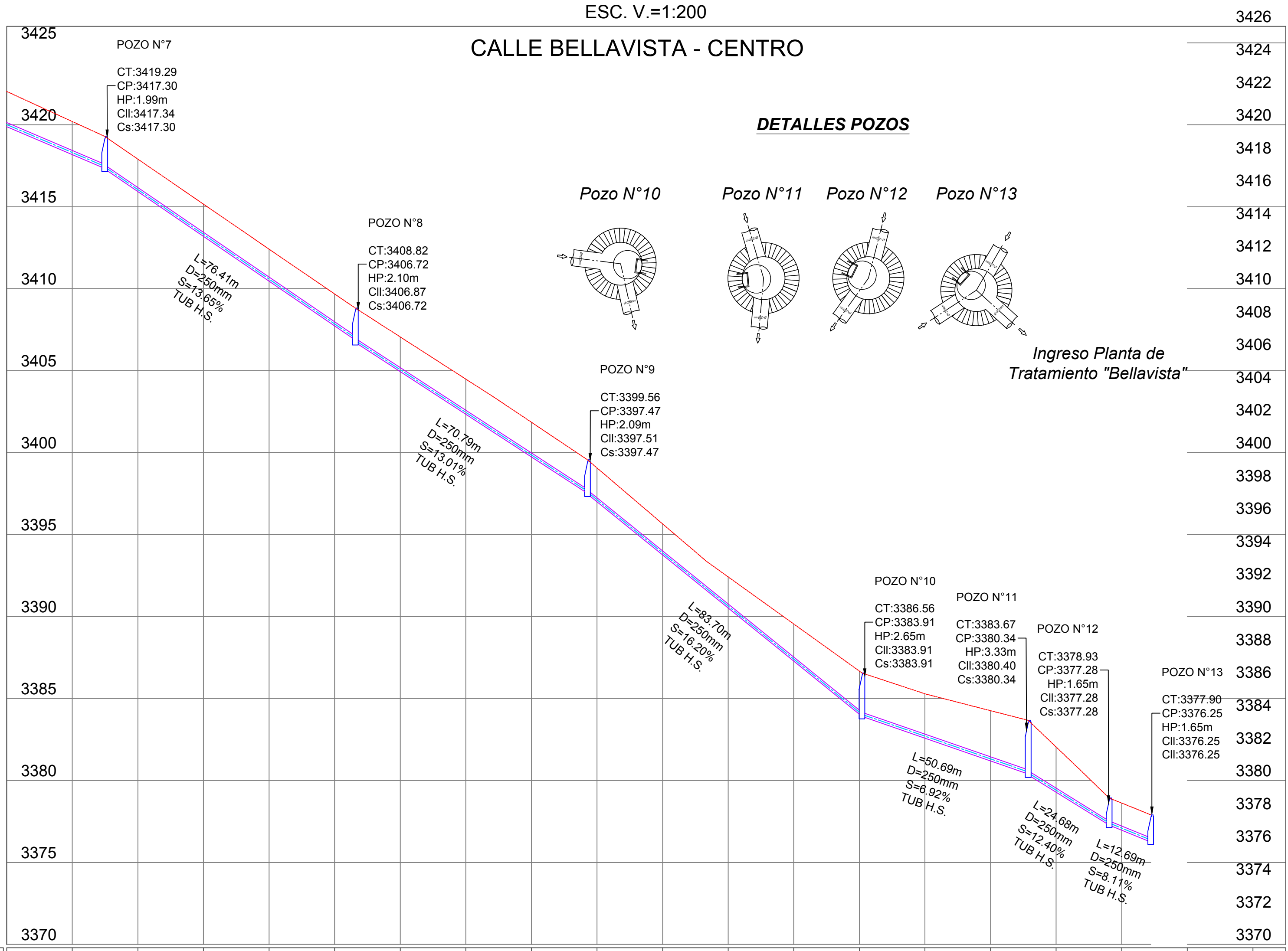
## SIMBOLOGÍA

- L LONGITUD DEL TRAMO
- D / Ø DIÁMETRO DE TUBERÍA
- S GRADIENTE HIDRÁULICA
- CT COTA TERRENO
- CP COTA PROYECTO
- Cs COTA DE LLEGADA
- Ci COTA DE SALIDA
- HP ALTURA DE POZO

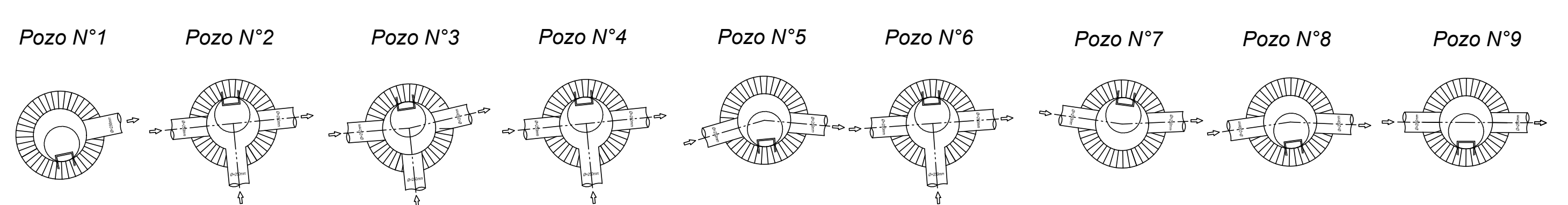
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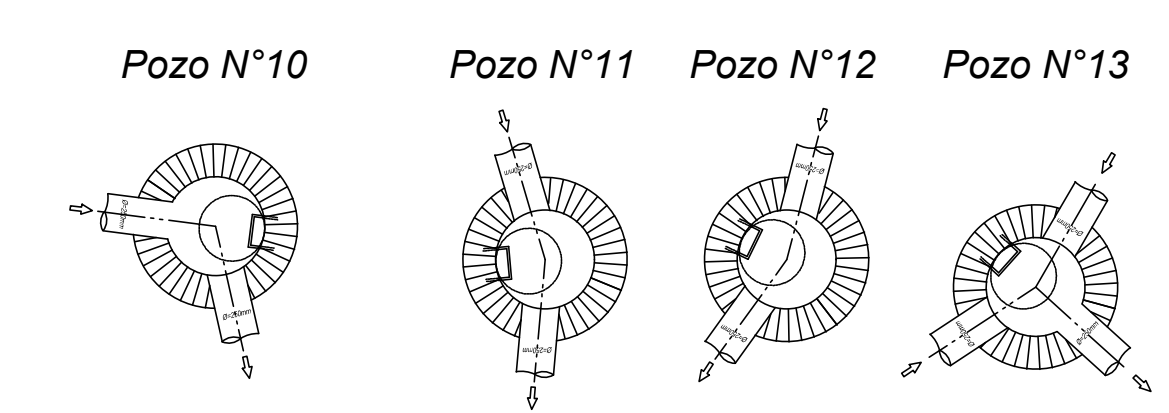
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 ESC. H.=1:1000  
 ESC. V.=1:200



DETALLES POZOS



DETALLES POZOS



RED DE ALCANTARILLADO SANITARIO SANTA LUCÍA BELLAVISTA				
N°	ESTE (m)	NORTE (m)	C. TERRENO	C. LLEGADA - C. SALIDA
<b>SANTA LUCÍA BELLAVISTA - CALLE BELLAVISTA - CENTRO</b>				
1	758119.97	9848309.14	3457.97	3456.73
2	758174.14	9848387.79	3450.71	3449.21
3	758227.25	9848460.00	3442.05	3440.45
4	758280.27	9848544.95	3438.72	3436.92
5	758333.29	9848629.90	3435.39	3434.39
6	758386.31	9848714.85	3432.06	3431.86
7	758439.33	9848800.80	3428.73	3429.33
8	758492.35	9848885.75	3425.40	3426.80
9	758545.37	9848970.70	3422.07	3424.27
10	758598.39	9849055.65	3418.74	3421.74
11	758651.41	9849140.60	3415.41	3419.21
12	758704.43	9849225.55	3412.08	3416.68
13	758757.45	9849310.50	3408.75	3414.15
14	758810.47	9849395.45	3405.42	3411.62
15	758863.49	9849480.40	3402.09	3409.09
16	758916.51	9849565.35	3398.76	3406.56
17	758969.53	9849650.30	3395.43	3404.03
18	759022.55	9849735.25	3392.10	3401.50
19	759075.57	9849820.20	3388.77	3398.97
20	759128.59	9849905.15	3385.44	3396.44
21	759181.61	9850000.10	3382.11	3393.91
22	759234.63	9850095.05	3378.78	3391.38
23	759287.65	9850190.00	3375.45	3388.85
24	759340.67	9850285.95	3372.12	3386.32
25	759393.69	9850380.90	3368.79	3383.79
26	759446.71	9850475.85	3365.46	3381.26
27	759499.73	9850570.80	3362.13	3378.73
28	759552.75	9850665.75	3358.80	3376.20
29	759605.77	9850760.70	3355.47	3373.67
30	759658.79	9850855.65	3352.14	3371.14
31	759711.81	9850950.60	3348.81	3368.61
32	759764.83	9851045.55	3345.48	3366.08
33	759817.85	9851140.50	3342.15	3363.55
34	759870.87	9851235.45	3338.82	3361.02
35	759923.89	9851330.40	3335.49	3358.49
36	759976.91	9851425.35	3332.16	3355.96
37	760029.93	9851520.30	3328.83	3353.43
38	760082.95	9851615.25	3325.50	3350.90
39	760135.97	9851710.20	3322.17	3348.37
40	760188.99	9851805.15	3318.84	3345.84
41	760242.01	9851900.10	3315.51	3343.31
42	760295.03	9852000.05	3312.18	3340.78
43	760348.05	9852100.00	3308.85	3338.25
44	760401.07	9852200.95	3305.52	3335.72
45	760454.09	9852300.90	3302.19	3333.19
46	760507.11	9852400.85	3298.86	3330.66
47	760560.13	9852500.80	3295.53	3328.13
48	760613.15	9852600.75	3292.20	3325.60
49	760666.17	9852700.70	3288.87	3323.07
50	760719.19	9852800.65	3285.54	3320.54
51	760772.21	9852900.60	3282.21	3318.01
52	760825.23	9853000.55	3278.88	3315.48
53	760878.25	9853100.50	3275.55	3312.95
54	760931.27	9853200.45	3272.22	3310.42
55	760984.29	9853300.40	3268.89	3307.89
56	761037.31	9853400.35	3265.56	3305.36
57	761090.33	9853500.30	3262.23	3302.83
58	761143.35	9853600.25	3258.90	3300.30
59	761196.37	9853700.20	3255.57	3297.77
60	761249.39	9853800.15	3252.24	3295.24
61	761302.41	9853900.10	3248.91	3292.71
62	761355.43	9854000.05	3245.58	3290.18
63	761408.45	9854100.00	3242.25	3287.65
64	761461.47	9854200.95	3238.92	3285.12
65	761514.49	9854300.90	3235.59	3282.59
66	761567.51	9854400.85	3232.26	3280.06
67	761620.53	9854500.80	3228.93	3277.53
68	761673.55	9854600.75	3225.60	3275.00
69	761726.57	9854700.70	3222.27	3272.47
70	761779.59	9854800.65	3218.94	3270.94
71	761832.61	9854900.60	3215.61	3268.41
72	761885.63	9855000.55	3212.28	3265.88
73	761938.65	9855100.50	3208.95	3263.35
74	761991.67	9855200.45	3205.62	3260.82
75	762044.69	9855300.40	3202.29	3258.29
76	762097.71	9855400.35	3198.96	3255.76
77	762150.73	9855500.30	3195.63	3253.23
78	762203.75	9855600.25	3192.30	3250.70
79	762256.77	9855700.20	3188.97	3248.17
80	762309.79	9855800.15	3185.64	3245.64
81	762362.81	9855900.10	3182.31	3243.11
82	762415.83	9856000.05	3178.98	3240.58
83	762468.85	9856100.00	3175.65	3238.05
84	762521.87	9856200.95	3172.32	3235.52
85	762574.89	9856300.90	3168.99	3232.99
86	762627.91	9856400.85	3165.66	3230.46
87	762680.93	9856500.80	3162.33	3227.93
88	762733.95	9856600.75	3158.00	3225.40
89	762786.97	9856700.70	3154.67	3222.87
90	762839.99	9856800.65	3151.34	3220.34
91	762893.01	9856900.60	3148.01	3217.81
92	762946.03	9857000.55	3144.68	3215.28
93	762999.05	9857100.50	3141.35	3212.75
94	763052.07	9857200.45	3138.02	3210.22
95	763105.09	9857300.40	3134.69	3207.69
96	763158.11	9857400.35	3131.36	3205.16
97	763211.13	9857500.30	3128.03	3202.63
98	763264.15	9857600.25	3124.70	3200.10
99	763317.17	9857700.20	3121.37	3197.57
100	763370.19	9857800.15	3118.04	3195.04

**G.A.D. MUNICIPAL DEL CANTÓN TISALEO**

“CASTRO DE LOS SISTEMAS DE ALCANTARILLADO A TRAVÉS DE LA GEOINFORMACIÓN Y DIGITALIZACIÓN PARA MEJORAR LA CALIDAD DE INFORMACIÓN SANITARIA DE LA PARROQUIA URBANA TISALEO Y CASERíos SAN LUIS, SAN FRANCISCO, SAN JUAN, SAN DIEGO, ALDABANA, SANTA LUCÍA LIBERTAD, SANTA LUCÍA-CENTRO, SANTA LUCÍA ARRIBA, EL CALVARIO DEL CANTÓN TISALEO, PROVINCIA DE TUNGURAHUA”

CONTIENE: RED DE ALCANTARILLADO SANITARIO SANTA LUCÍA BELLAVISTA BARRIO BELLAVISTA

PROVINCIA: TUNGURAHUA CANTÓN: TISALEO SECTOR: SANTA LUCÍA ARRIBA

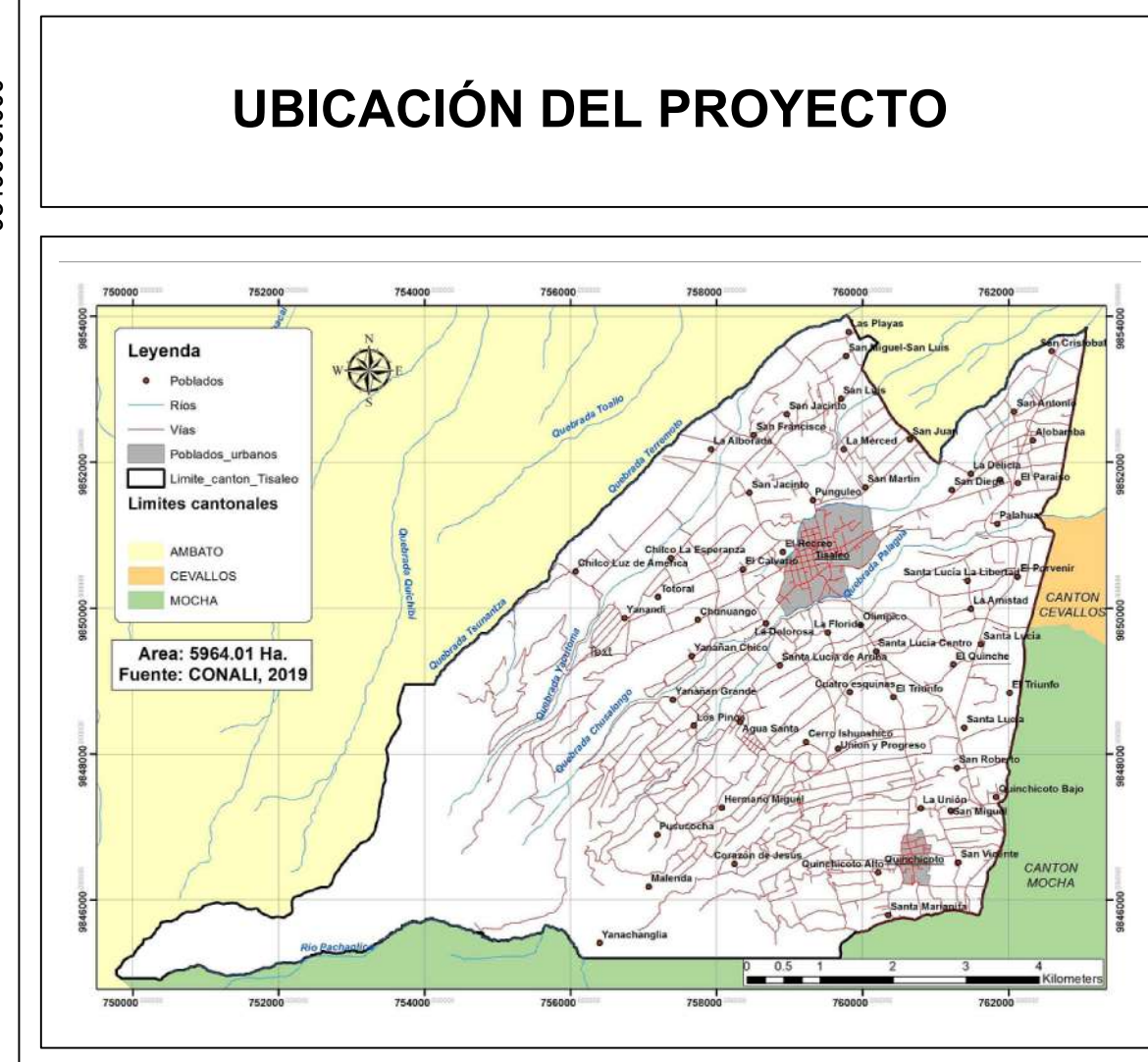
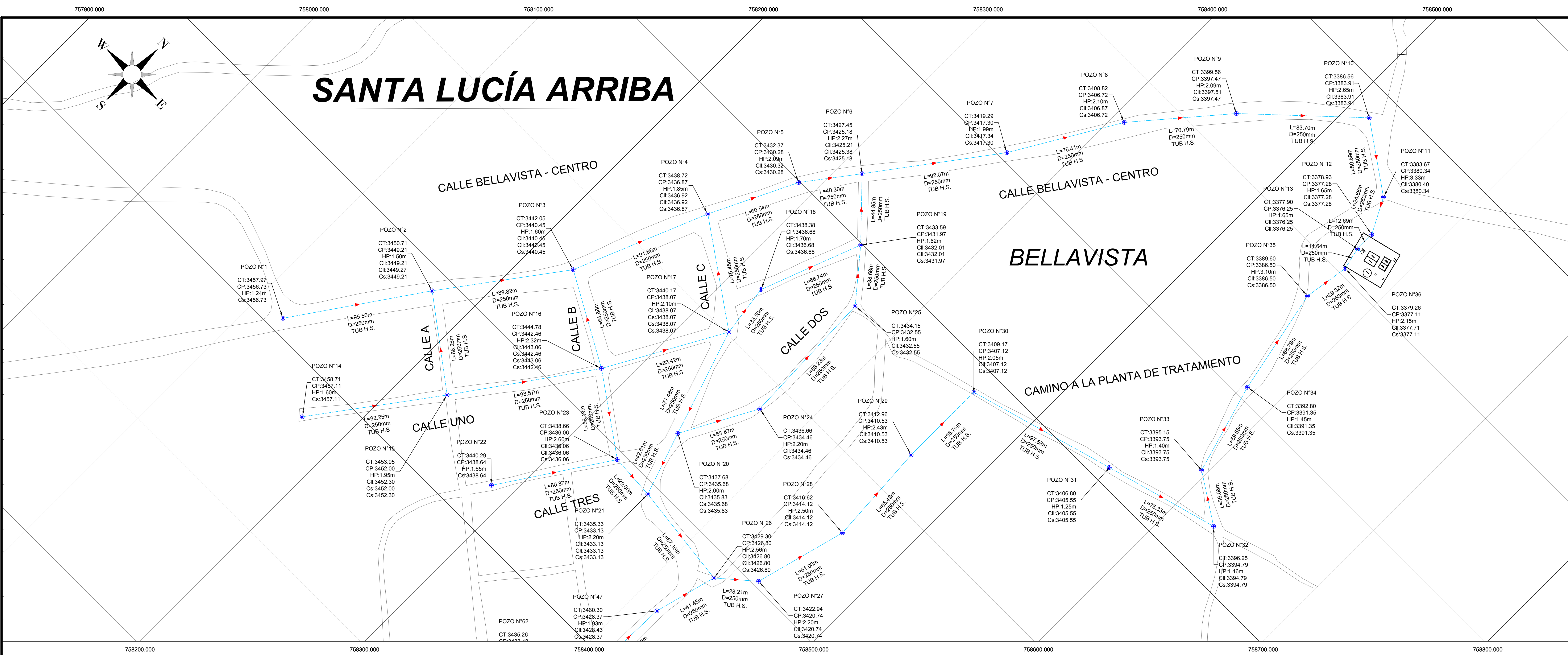
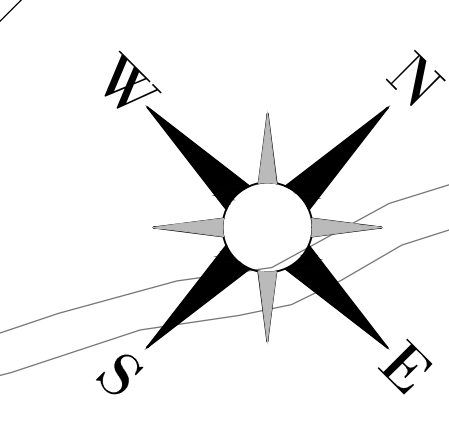
FECHA: AGOSTO, 2023 ESCALA: 1:1000

ELABORADO POR: REVISADO POR: APROBADO POR: LÁMINA: LÁMINA - 01

EGTA, Tania Bonita Testa Ing. Galo Núñez Tutor Ing. Galo Núñez Tutor TOTAL LÁMINAS: 06



# SANTA LUCÍA ARRIBA



### DATOS GEOGRÁFICOS

**DATUM:** WGS84 ZONA 17S

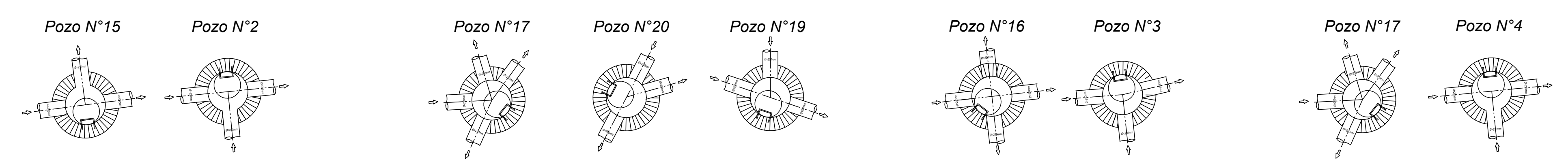
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759353.24 m E  
9850780.17 m S

**ALTURA REFERENCIAL:**  
3249 m

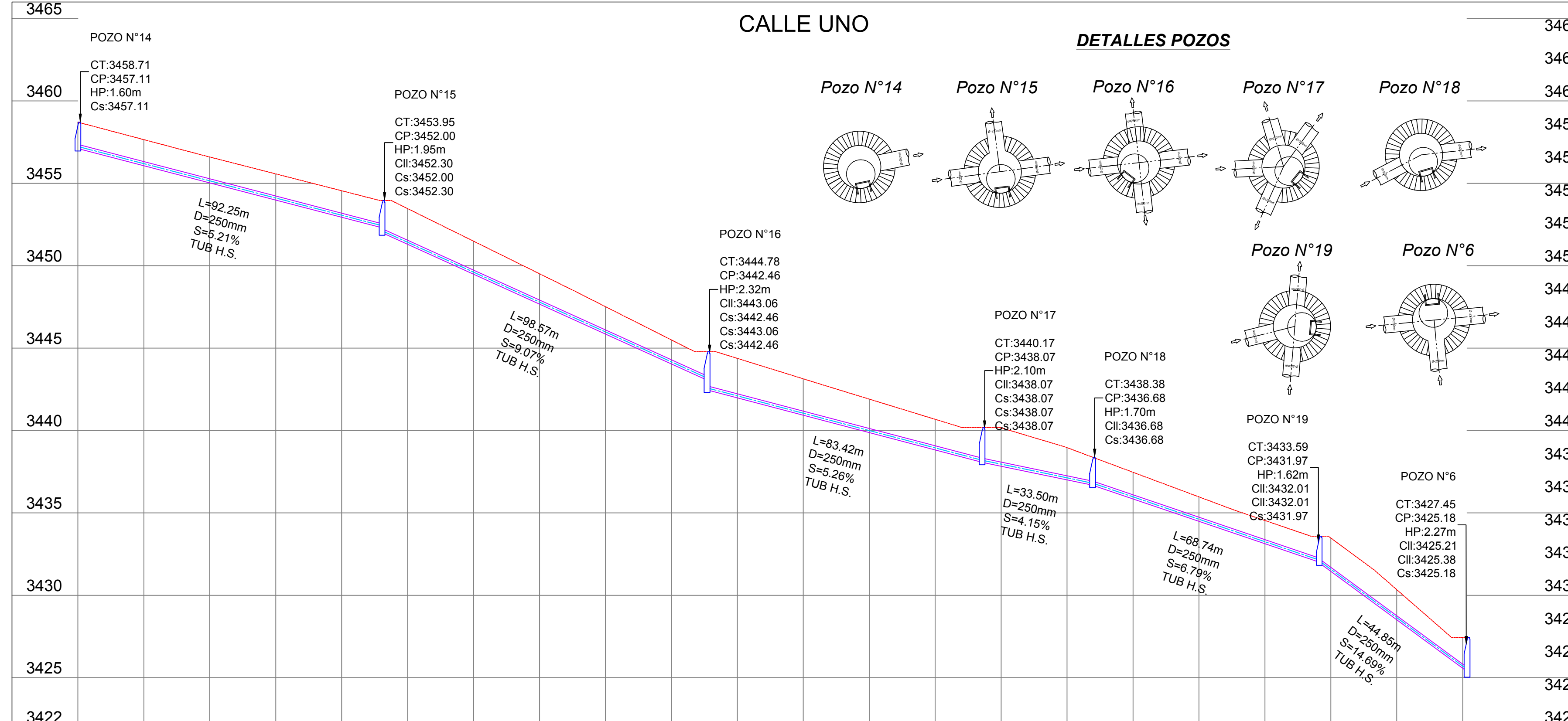
### SIMBOLOGÍA

- TUBERÍA H.S. D = 250mm
- POZO DE REVISIÓN
- PERFIL DEL TERRENO
- CALLES / VÍAS
- LÍMITES TERRITORIALES

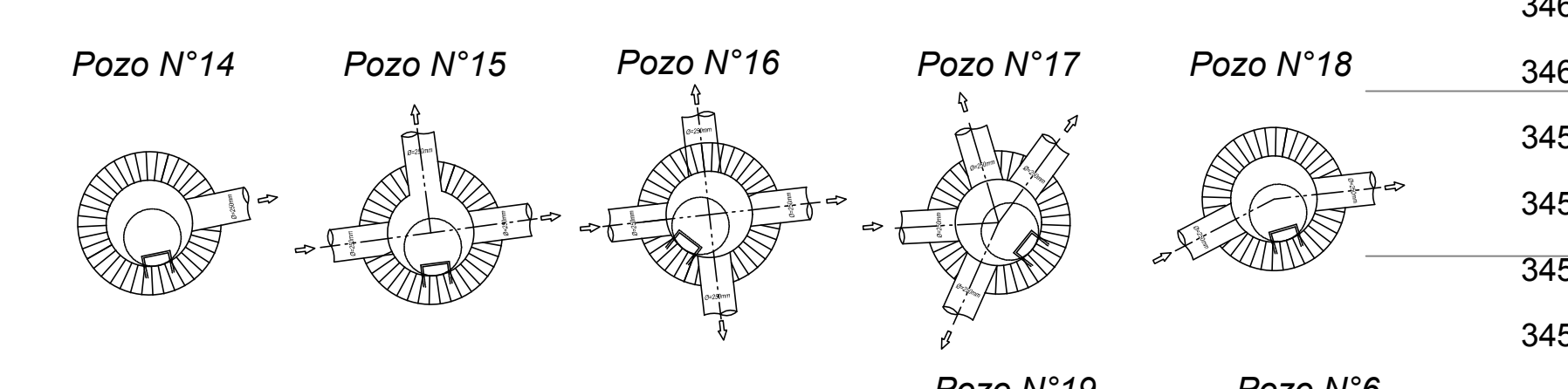
### DETALLES POZOS



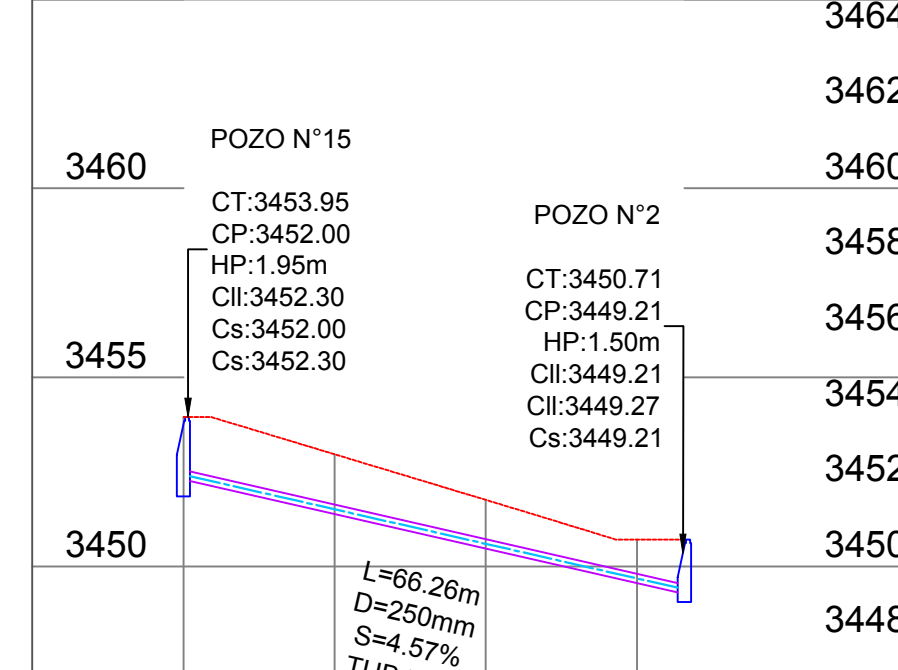
PERFIL LONGITUDINAL  
ESC. H.=1:1000  
ESC. V.=1:200



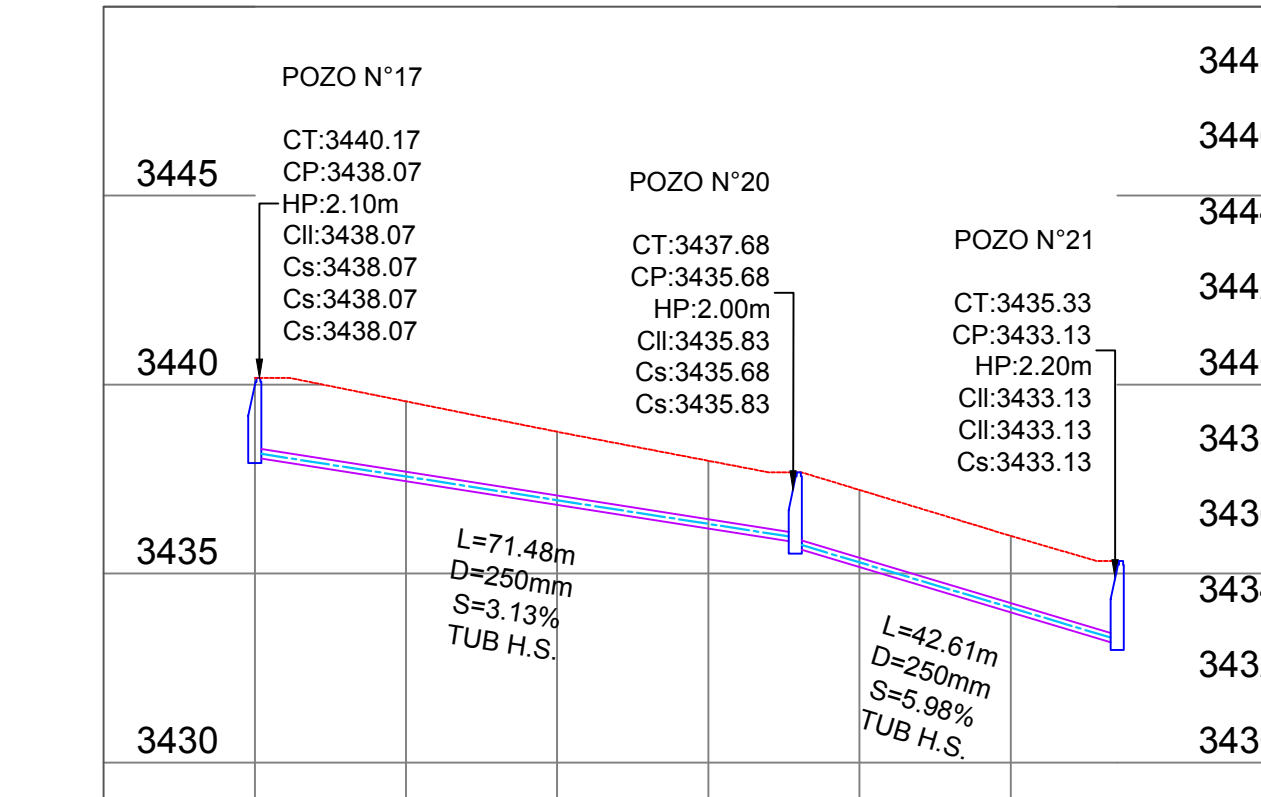
### DETALLES POZOS



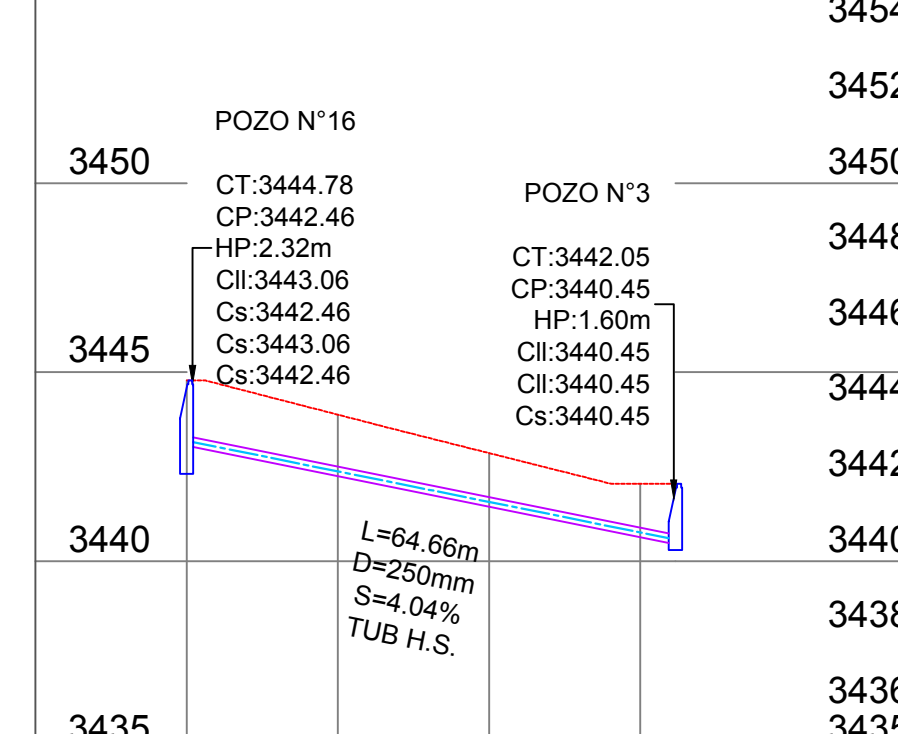
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ESC. V.=1:200



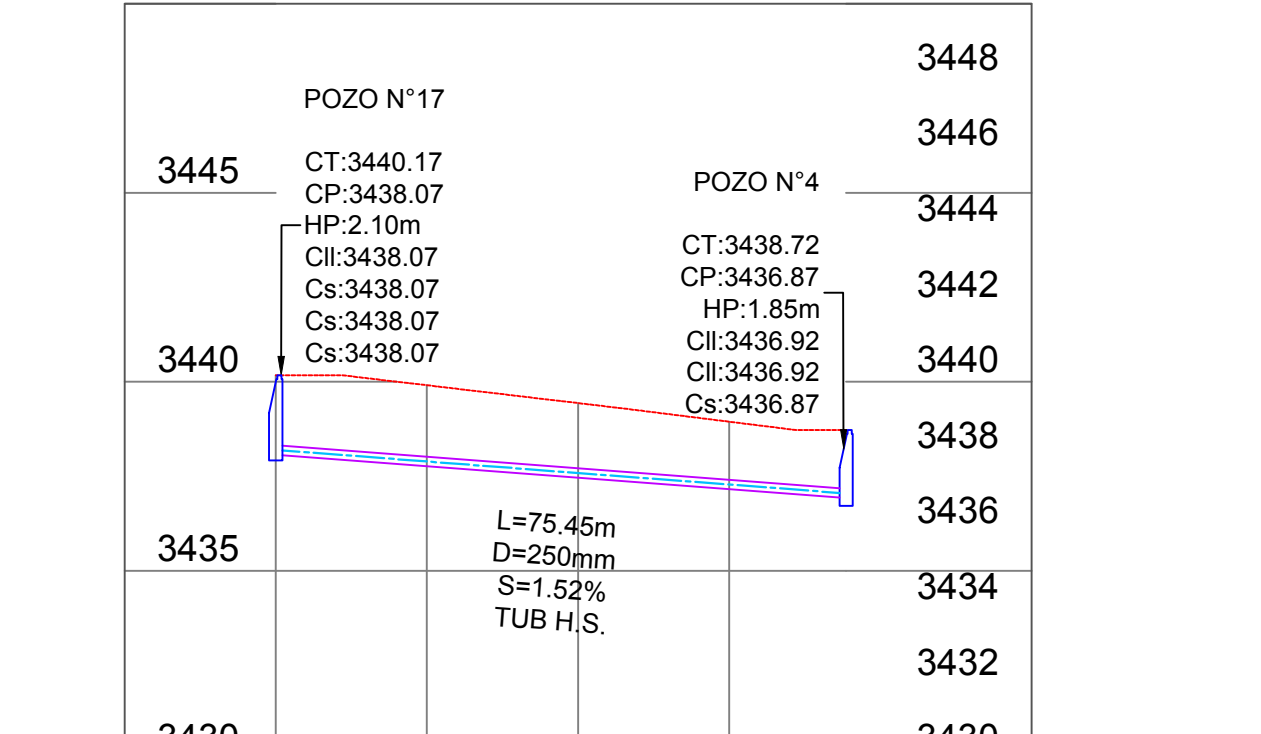
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ESC. H.=1:1000  
ESC. V.=1:200



PERFIL LONGITUDINAL  
ESC. H.=1:1000  
ESC. V.=1:200



PERFIL LONGITUDINAL  
ESC. H.=1:1000  
ESC. V.=1:200

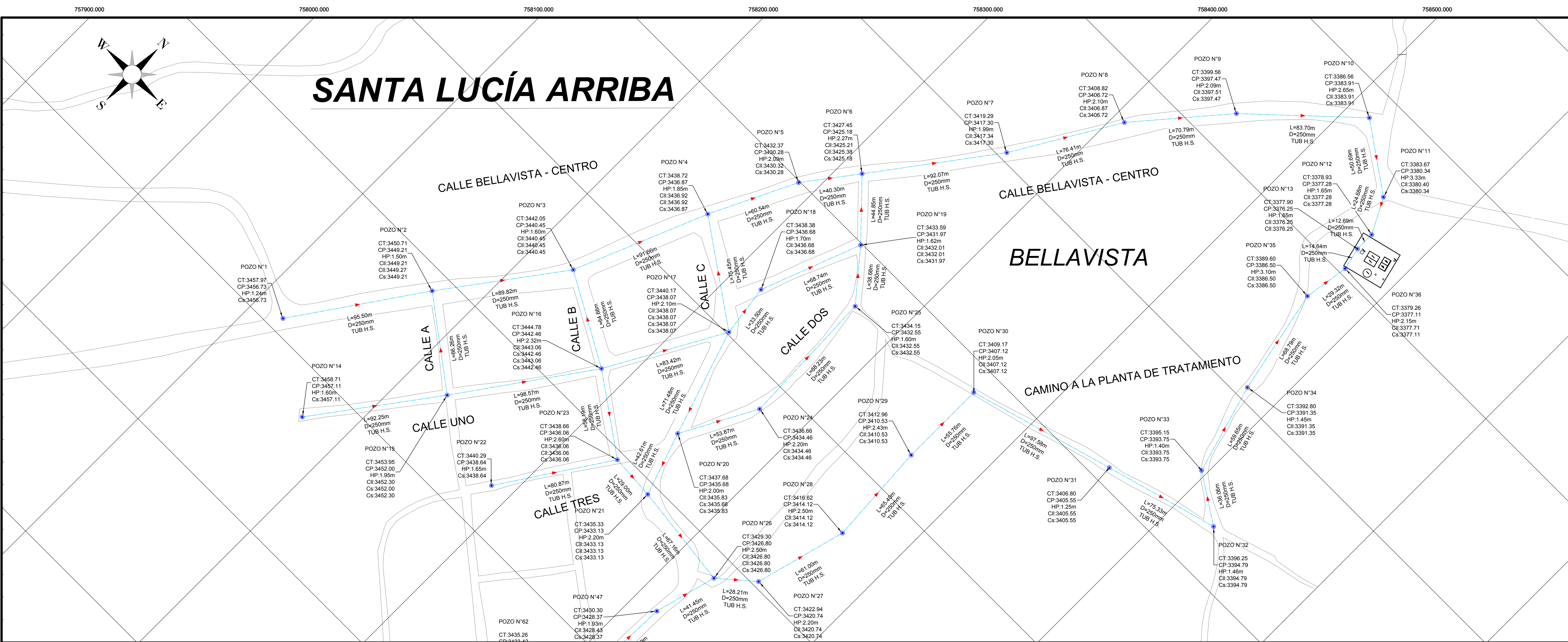


### RED DE ALCANTARILLADO SANITARIO SANTA LUCÍA BELLAVISTA

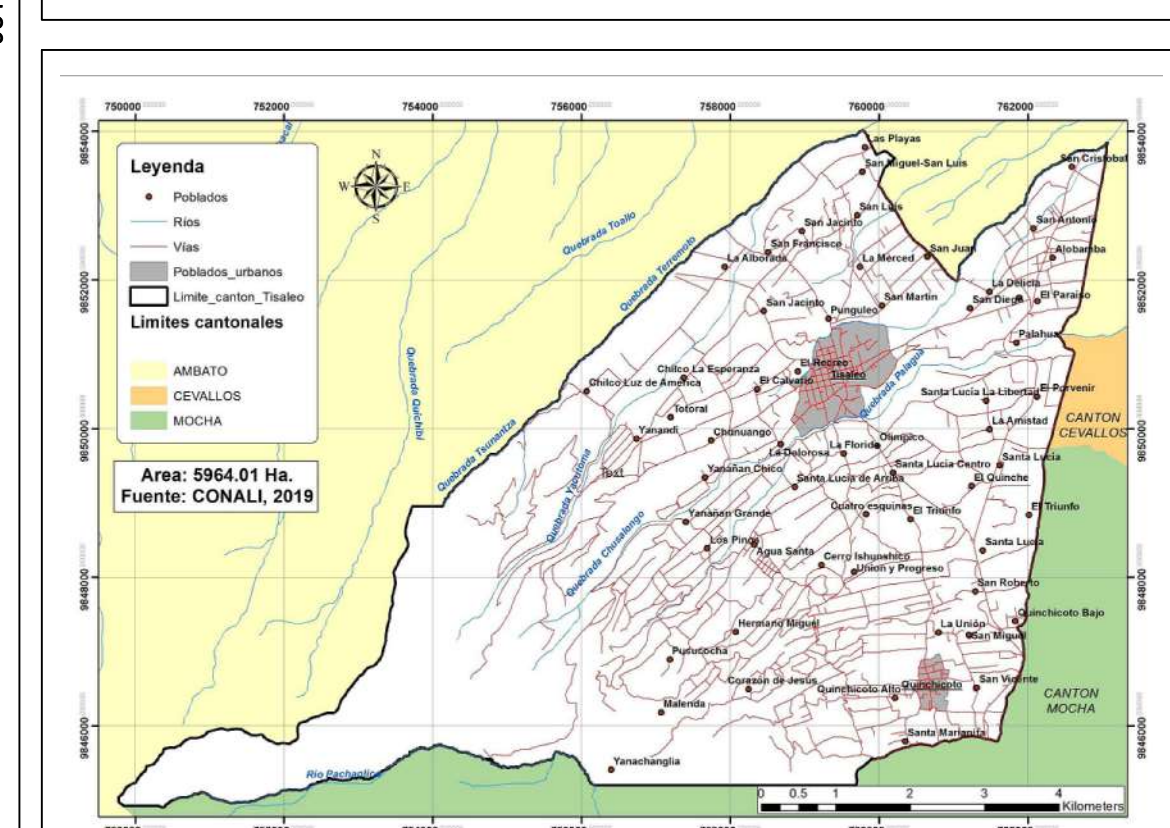
N°	ESTE (m)	NORTE (m)	C. TERRENO	C. TERRENO	C. LLEGADA	C. SALIDA
CALLE BELLAVISTA - CENTRO						
1	758119.97	9848309.14	3457.07	-	3456.73	-
2	758174.14	9848387.79	3450.71	3449.21	3449.21	3449.21
3	758227.25	9848460.00	3442.05	3440.45	3440.45	3440.45
4	758282.67	9848544.65	3438.72	3436.92	3436.92	3436.92
5	758338.10	9848629.12	3432.37	3430.32	3430.32	3430.32
6	758393.53	9848713.59	3425.92	3425.21	3425.21	3425.21
7	758448.96	9848798.06	3419.29	3417.24	3417.24	3417.24
8	758504.39	9848882.53	3408.82	3406.87	3406.87	3406.87
9	758559.82	9848967.00	3399.56	3397.51	3397.51	3397.51
10	758615.25	9849051.47	3386.56	3383.91	3383.91	3383.91
11	758670.68	9849135.94	3373.56	3370.91	3370.91	3370.91
12	758726.11	9849220.41	3360.56	3357.91	3357.91	3357.91
13	758781.54	9849304.88	3347.56	3344.91	3344.91	3344.91
14	758836.97	9849389.35	3334.56	3331.91	3331.91	3331.91
15	758892.40	9849473.82	3321.56	3318.91	3318.91	3318.91
16	758947.83	9849558.29	3308.56	3305.91	3305.91	3305.91
17	759003.26	9849642.76	3295.56	3292.91	3292.91	3292.91
18	759058.69	9849727.23	3282.56	3279.91	3279.91	3279.91
19	759114.12	9849811.70	3269.56	3266.91	3266.91	3266.91
20	759169.55	9849896.17	3256.56	3253.91	3253.91	3253.91
21	759224.98	9849980.64	3243.56	3240.91	3240.91	3240.91
22	759280.41	9850065.11	3230.56	3227.91	3227.91	3227.91
23	759335.84	9850149.58	3217.56	3214.91	3214.91	3214.91
24	759391.27	9850234.05	3204.56	3201.91	3201.91	3201.91
25	759446.70	9850318.52	3191.56	3188.91	3188.91	3188.91
26	759502.13	9850402.99	3178.56	3175.91	3175.91	3175.91
27	759557.56	9850487.46	3165.56	3162.91	3162.91	3162.91
28	759612.99	9850571.93	3152.56	3149.91	3149.91	3149.91
29	759668.42	9850656.40	3139.56	3136.91	3136.91	3136.91
30	759723.85	9850740.87	3126.56	3123.91	3123.91	3123.91
31	759779.28	9850825.34	3113.56	3110.91	3110.91	3110.91
32	759834.71	9850909.81	3100.56	3097.91	3097.91	3097.91
33	759890.14	9850994.28	3087.56	3084.91	3084.91	3084.91
34	759945.57	9851078.75	3074.56	3071.91	3071.91	3071.91
35	759999.99	9851163.22	3061.56	3058.91	3058.91	3058.91
36	760054.42	9851247.69	3048.56	3045.91	3045.91	3045.91
37	760108.85	9851332.16	3035.56	3032.91	3032.91	3032.91
38	760163.28	9851416.63	3022.56	3019.91	3019.91	3019.91
39	760217.71	9851501.10	3009.56	3006.91	3006.91	3006.91
40	760272.14	9851585.57	2996.56	2993.91	2993.91	2993.91
41	760326.57	9851670.04	2983.56	2980.91	2980.91	2980.91
42	760381.00	9851754.51	2970.56	2967.91	2967.91	2967.91
43	760435.43	9851838.98	2957.56	2954.91	2954.91	2954.91
44	760489.86	9851923.45	2944.56	2941.91	2941.91	2941.91
45	760544.29	9852007.92	2931.56	2928.91	2928.91	2928.91
46	760598.72	9852092.39	2918.56	2915.91	2915.91	2915.91
47	760653.15	9852176.86	2905.56	2902.91	2902.91	2902.91
48	760707.58	9852261.33	2892.56	2889.91	2889.91	2889.91
49	760762.01	9852345.80	2879.56	2876.91	2876.91	2876.91
50	760816.44	9852430.27	2866.56	2863.91	2863.91	2863.91
51	760870.87	9852514.74	2853.56	2850.91	2850.91	2850.91
52	760925.30	9852599.21	2840.56	2837.91	2837.91	2837.91
53	760979.73	9852683.68	2827.56	2824.91	2824.91	2824.91
54	761034.16	9852768.15	2814.56	2811.91	2811.91	2811.91
55	761088.59	9852852.62	2801.56	2808.91	2808.91	2808.91
56	761143.02	9852937.09	2788.56	2785.91	2785.91	2785.91
57	761197.45	9853021.56	2775.56	2772.91	2772.91	2772.91
58	761251.88	9853106.03	2762.56	2759.91	2759.91	2759.91
59	761306.31	9853190.50	2749.56	2746.91	2746.91	2746.91
60	761360.74	9853274.97	2736.56	2733.91	2733.91	2733.91
61	761415.17	9853359.44	2723.56	2720.91	2720.91	2720.91
62	761469.60	9853443.91	2710.56	2707.91	2707.91	2707.91
63	761524.03	9853528.38	2697.56	2694.91	2694.91	2694.91
64	761578.46	9853612.85	2684.56	2681.91	2681.91	2681.91
65	761632.89	9853697.32	2671.56	2668.91	2668.91	2668.91
66	761687.32	9853781.79	2658.56	2655.91	2655.91	2655.91
67	761741.75	9853866.26	2645.56	2642.91	2642.91	2642.91
68	761796.18	9853950.73	2632.56	2629.91	2629.91	2629.91
69	761850.61	9854035.20	2619.56	2616.91	2616.91	2616.91
70	761905.04	9854119.67	2606.56	2603.91	2603.91	2603.91
71	761959.47	9854204.14	2593.56	2590.91	2590.91	2590.91
72	762013.90	9854288.61	2580.56	2577.91	2577.91	2577.91
73	762068.33	9854373.08	2567.56	2564.91	2564.91	2564.91
74	762122.76	9854457.55	2554.56	2551.91	2551.91	2551.91
75	762177.19	9854542.02	2541.56	2538.91	2538.91	2538.91
76	762231.62	9854626.49	2528.56	2525.91	2525.91	2525.91
77	762286.05	9854710.96	2515.56	2512.91	2512.91	2512.91
78	762340.48	9854795.43	2502.56	2509.91	2509.91	2509.91
79	762394.91	9854879.90	2489.56	2486.91	2486.91	2486.91
80	762449.34	9854964.37	2476.56	2473.91	2473.91	2473.91
81	762503.77	9855048.84	2463.56	2460.91	2460.91	2460.91
82	762558.20	9855133.31	2450.56	2447.91	2447.91	2447.91
83	762612.63	9855217.78	2437.56	2434.91	2434.91	2434.91
84	762667.06	9855302.25	2424.56	2421.91	2421.91	2421.91
85	762721.49	9855386.72	2411.56	2408.91	2408.91	2408.91
86	762775.92	9855471.19	2398.56	2395.91	2395.91	2395.91
87	762830.35	9855555.66	2385.56	2382.91	2382.91	2382.91
88	762884.78	9855640.13	2372.56	2369.91	2369.91	2369.91
89	762939.21	9855724.60	2359.56	2356.91	2356.91	2356.91
90	762993.64	9855809.07	2346.56	2343.91	2343.91	2343.91
91	763048.07	9855893.54	2333.56	2330.91	2330.91	2330.91
92	763102.50	9855978.01	2320.56	2317.91	2317.91	2317.91
93	763156.93	9856062.48	2307.56	2304.91	2304.91	2304.91
94	763211.36	9856146.95	2294.56	2291.91	2291.91	2291.91
95	763265.79	9856231.42	2281.56	2278.91	2278.91	2278.91
96	763320.22	9856315.89	2268.56	2265.91	2265.91	2265.91
97	763374.65	9856400.36	2255.56	2252.91	2252.91	2252.91
98	763429.08	9856484.83	2242.56	2239.91	2239.91	2239.91
99	763483.51	9856569.30	2229.56	2226.91	2226.91	2226.91
100	763537.94	9856653.77	2216.56	2213.91	2213.91	2213.91
101	763592.37	9856738.24	2203.56	2200.91	2200.91	2200.91
102	763646.80	9856822.71	2190.56	2187.91	2187.91	2187.91
103	763701.23	9856907.18	2177.56	2174.91	2174.91	2174.91
104	763755.66	9856991.65	2164.56	2161.91	2161.91	2161.91
105	763810.09	9857076.12	2151.56	2148.91	2148.91	2148.91
106	763864.52	9857160.59	2138.56	2135.91	2135.91	2135.91
107	763918.95	9857245.06	2125.56	2122.91	2122.91	2122.91
108	763973.38	9857329.53	2112.56	2109.91	2109.91	2109.91
109	764027.81	9857413.99	2100.00	2100.00	2100.00	2100.00
110	764082.24	9857498.46	2087.56	2084.91	2084.91	2084.91
111	764136.67	9857582.93	2074.56	2071.91	2071.91	2071.91
112	764191.10	9857667.40	2061.56	2058.91	2058.91	2058.91
113	764245.53	9857751.87	2048.56	2045.91	2045.91	2045.91
114	764300.00	9857836.34	2035.56	2032.91	2032.91	2032.91
115	764354.43	9857920.81	2022.56	2019.91	2019.91	2019.91
116	764408.86	9858005.28	2009.56	2006.91	2006.91	2006.91
117	764463.29	9858089.75	1996.56	1993.91	1993.91	1993.91
118	764517.72	9858174.22	1983.56	1980.91	1980.91	1980.91
119	764572.15	9858258.69	1970.56	1967.91	1967.91	1967.91
120	764626.58	9858343.16	1957.56	1954.91	1954.91	1954.91
121	764681.01	9858427.63	1944.56	1941.91	1941.91	1941.91
122	764735.44	9858512.10</				



# SANTA LUCÍA ARRIBA



## UBICACIÓN DEL PROYECTO



## DATOS GEOGRÁFICOS

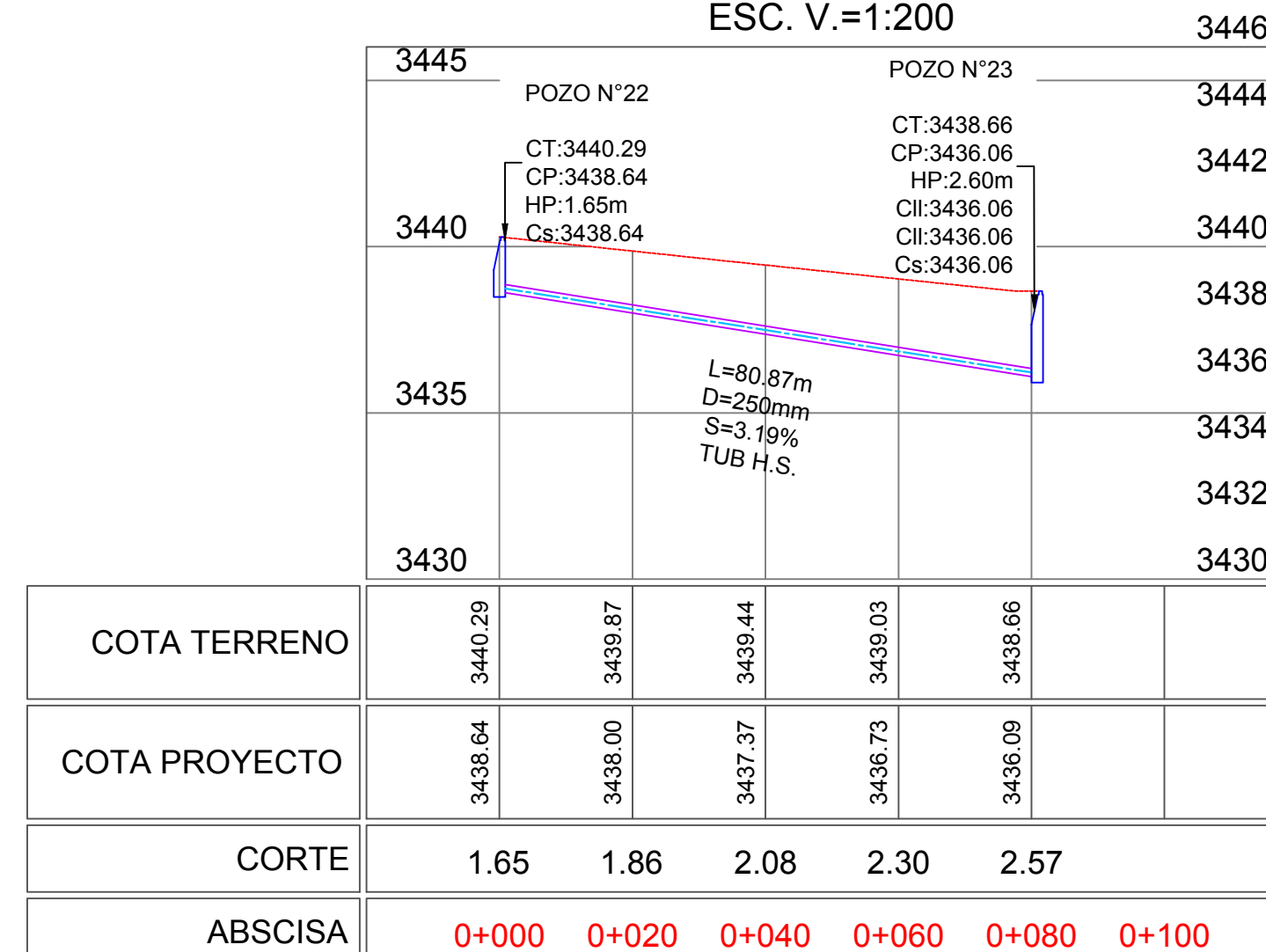
**DATUM:** WGS84 ZONA 17S  
**COORDENADAS UTM:** 75953.24 m E, 9850780.17 m S  
**ALTURA REFERENCIAL:** 3249 m

## SIMBOLOGÍA

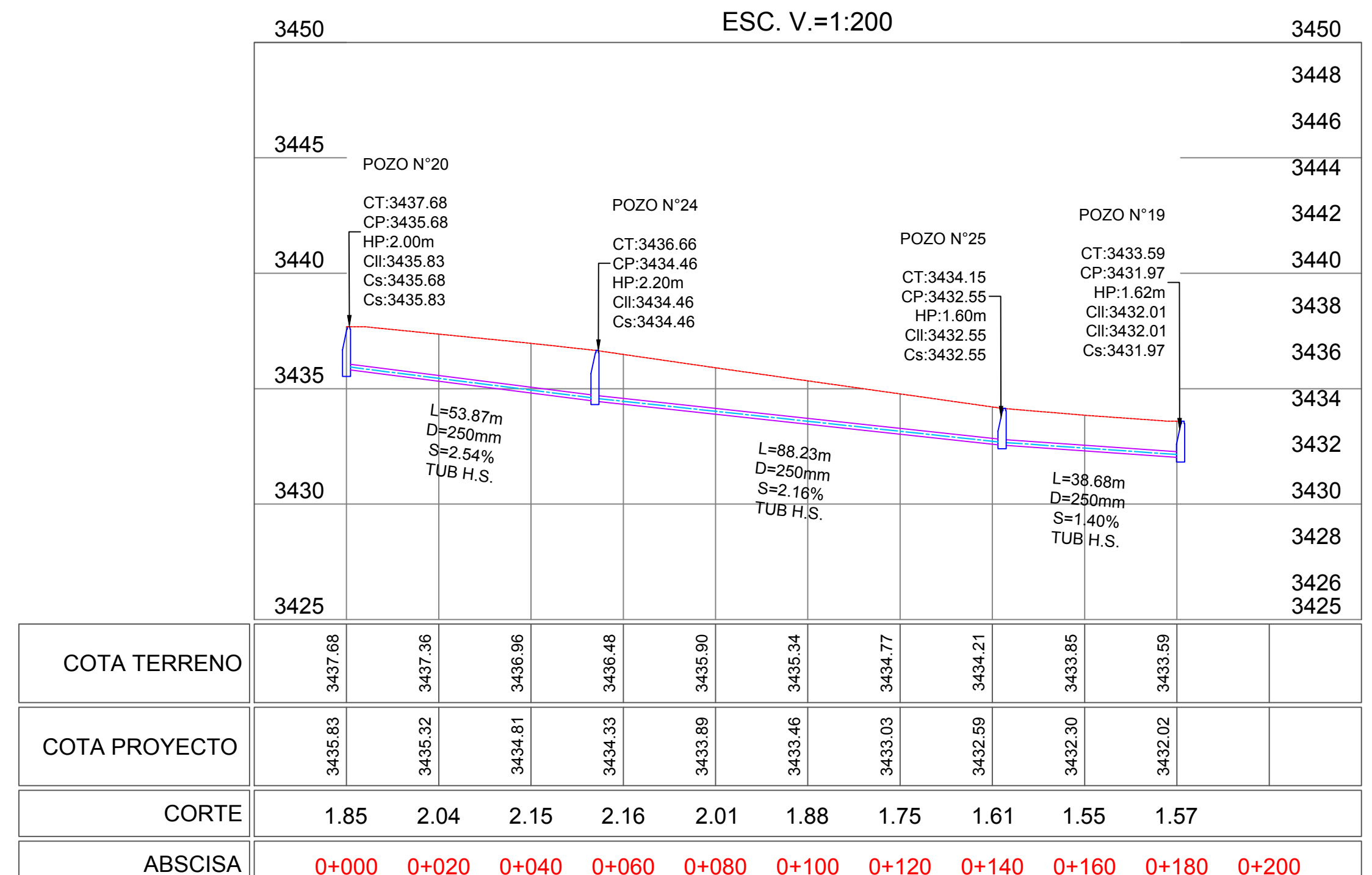
- TUBERÍA H.S. D = 250mm
- POZO DE REVISIÓN
- PERFIL DEL TERRENO
- CALLES / VÍAS
- LÍMITES TERRITORIALES

- L LONGITUD DEL TRAMO
- D / Ø DIÁMETRO DE TUBERÍA
- S GRADIENTE HIDRÁULICA
- CT COTA TERRENO
- CP COTA PROYECTO
- Cs COTA DE LLEGADA
- Cs COTA DE SALIDA
- HP ALTURA DE POZO

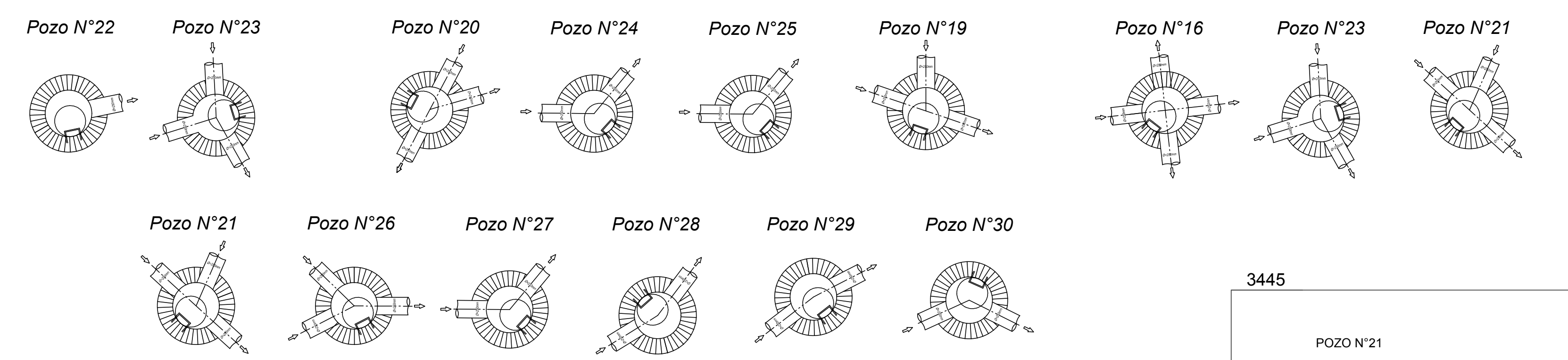
PERFIL LONGITUDINAL ESC. H.=1:1000 ESC. V.=1:200



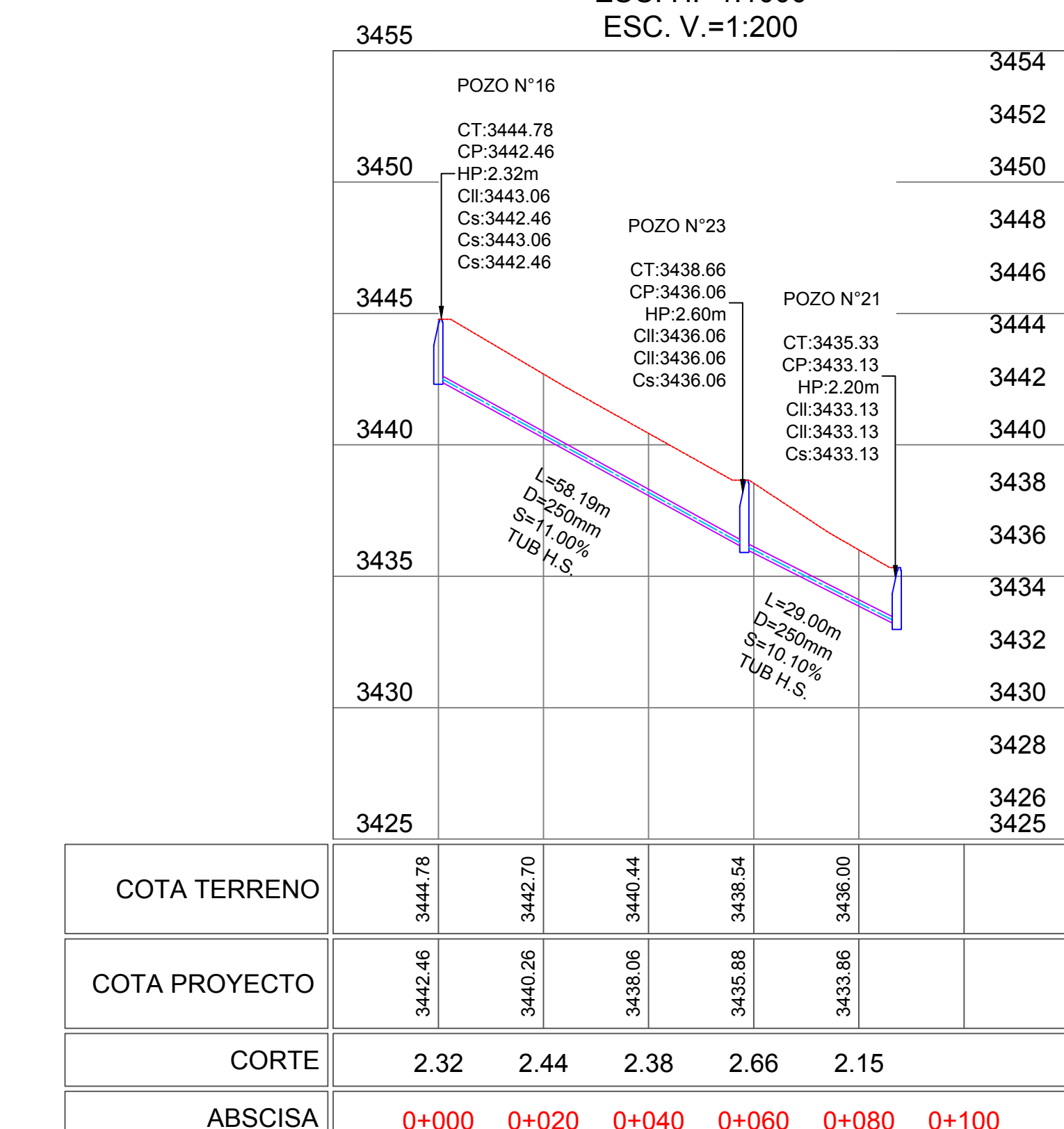
PERFIL LONGITUDINAL ESC. H.=1:1000 ESC. V.=1:200



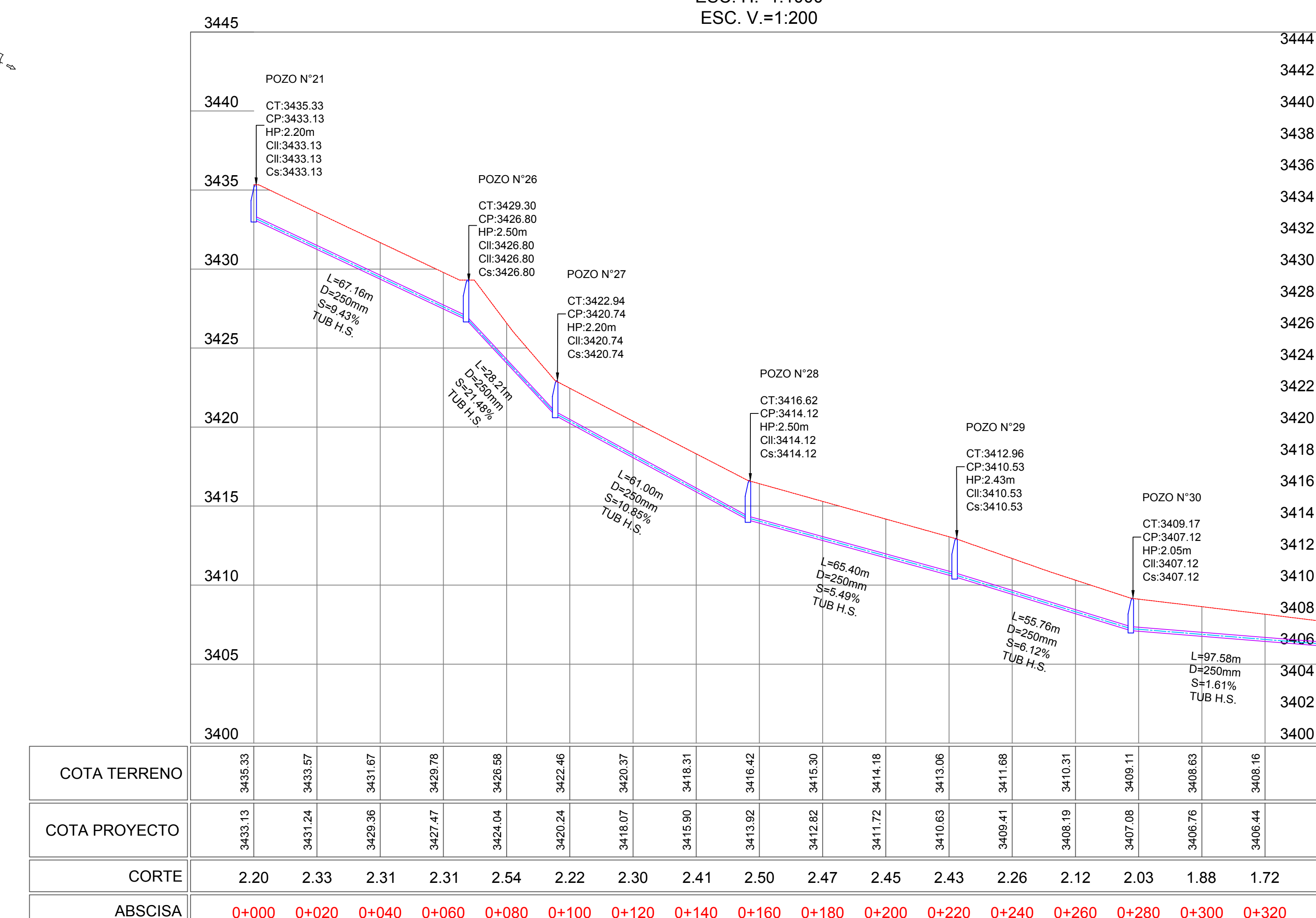
DETALLES POZOS



PERFIL LONGITUDINAL ESC. H.=1:1000 ESC. V.=1:200



PERFIL LONGITUDINAL ESC. H.=1:1000 ESC. V.=1:200



RED DE ALCANTARILLADO SANITARIO SANTA LUCÍA BELLAVISTA

N°	ESTE (m)	NORTE (m)	C. TERRENO	C. LLEGADA	C. SALIDA
<b>SANTA LUCÍA BELLAVISTA</b>					
<b>CALLE BELLAVISTA - CENTRO</b>					
1	758119.97	9848309.14	3450.71	-	3456.73
2	758174.14	9848387.79	3442.05	3449.21	3449.21
3	758227.25	9848460.00	3442.05	3440.45	3440.45
4	758262.67	9848544.95	3438.72	3438.92	3438.92
5	758289.10	9848599.12	3432.37	3430.32	3430.32
6	758313.43	9848631.25	3427.45	3425.21	3425.21
7	758338.48	9848705.06	3419.29	3411.34	3411.34
8	758407.37	9848770.83	3408.82	3406.87	3406.87
9	758453.30	9848824.69	3399.56	3397.51	3397.51
10	758514.36	9848891.95	3386.56	3383.91	3383.91
11	758555.83	9848952.95	3383.67	3380.40	3380.40
12	758567.38	9848831.09	3378.93	3377.28	3377.28
13	758567.38	9848818.39	3377.90	3376.25	3376.25
<b>CALLE UNO</b>					
14	758172.37	9848273.92	3458.71	-	3457.11
15	758227.21	9848348.11	3453.95	3452.30	3452.30
16	758284.08	9848426.01	3444.78	3443.06	3442.46
17	758324.58	9848501.54	3440.17	3438.07	3438.07
18	758319.98	9848534.72	3438.38	3436.68	3436.68
19	758344.51	9848598.93	3433.59	3432.01	3431.97
20	758313.43	9848631.25	3427.45	3425.38	3425.18
<b>CALLE 'A'</b>					
15	758227.21	9848348.11	3453.95	-	3452.30
2	758174.14	9848387.79	3450.71	3449.21	3449.21
<b>CALLE 'B'</b>					
16	758284.08	9848426.01	3444.78	-	3443.06
3	758227.25	9848460.00	3442.05	3440.45	3440.45
<b>CALLE 'C'</b>					
17	758324.58	9848501.54	3440.17	-	3438.07
4	758262.67	9848544.95	3438.72	3436.92	3436.87
<b>CALLE 'D'</b>					
17	758324.58	9848501.54	3440.17	3438.07	3438.07
20	758346.92	9848433.64	3437.68	3435.83	3435.68
21	758360.62	9848393.29	3435.33	3433.13	3433.13
<b>CALLE 'E'</b>					
22	758287.14	9848327.65	3440.29	-	3438.64
23	758331.68	9848395.14	3438.66	3436.06	3436.06
<b>CALLE 'F'</b>					
16	758284.08	9848426.01	3444.78	-	3442.46
23	758331.68	9848395.14	3438.66	3436.06	3436.06
21	758360.62	9848393.29	3435.33	3433.13	3433.13
<b>CALLE 'G'</b>					
20	758346.92	9848433.64	3437.68	-	3435.83
24	758372.46	9848481.06	3436.66	3434.66	3434.46
25	758369.31	9848569.24	3434.15	3432.85	3432.55
19	758344.51	9848598.93	3433.59	3432.01	3431.97
<b>CAMINO A LA PLANTA DE TRATAMIENTO</b>					
21	758360.62	9848393.29	3435.33	3433.13	3433.13
26	758407.37	9848462.76	3429.30	3426.80	3426.80
27	758446.72	9848503.83	3422.34	3420.74	3420.74
28	758464.49	9848462.76	3416.62	3414.12	3414.12
29	758460.38	9848526.03	3412.96	3410.53	3410.53
30	758460.41	9848563.78	3409.17	3407.12	3407.12
31	758554.23	9848910.62	3406.80	3405.55	3405.55
32	758526.80	9848630.83	3396.25	3394.79	3394.79
33	758596.53	9848600.44	3385.15	3383.75	3383.75
34	758580.00	9848707.75	3382.90	3381.35	3381.35
35	758566.15	9848775.14	3389.60	3386.50	3386.50
36	758570.63	9848804.11	3379.26	3377.71	3377.71
13	758567.38	9848818.39	3377.90	3376.25	3376.25

## G.A.D. MUNICIPAL DEL CANTON TISALEO

"CATASTRO DE LOS SISTEMAS DE ALCANTARILLADO A TRAVÉS DE LA GEOINFORMACIÓN Y DIGITALIZACIÓN PARA MEJORAR LA CALIDAD DE INFORMACIÓN SANITARIA DE LA PARROQUIA URBANA TISALEO Y CASERIOS SAN LUIS, SAN FRANCISCO, SAN JUAN, SAN DIEGO, ALBARRA, SANTA LUCÍA LIBERTAD, SANTA LUCÍA-CENTRO, SANTA LUCÍA ARRIBA, EL CALVARIO DEL CANTÓN TISALEO, PROVINCIA DE TUNGURAHUA"

CONTIENE: RED DE ALCANTARILLADO SANITARIO SANTA LUCÍA BELLAVISTA BARRIO BELLAVISTA

UNIVERSIDAD TÉCNICA DE AMBATO  
 FACULTAD DE INGENIERÍA CIVIL Y MECÁNICA  
 CÁTEDRA DE INGENIERÍA CIVIL

FECHA: AGOSTO, 2022

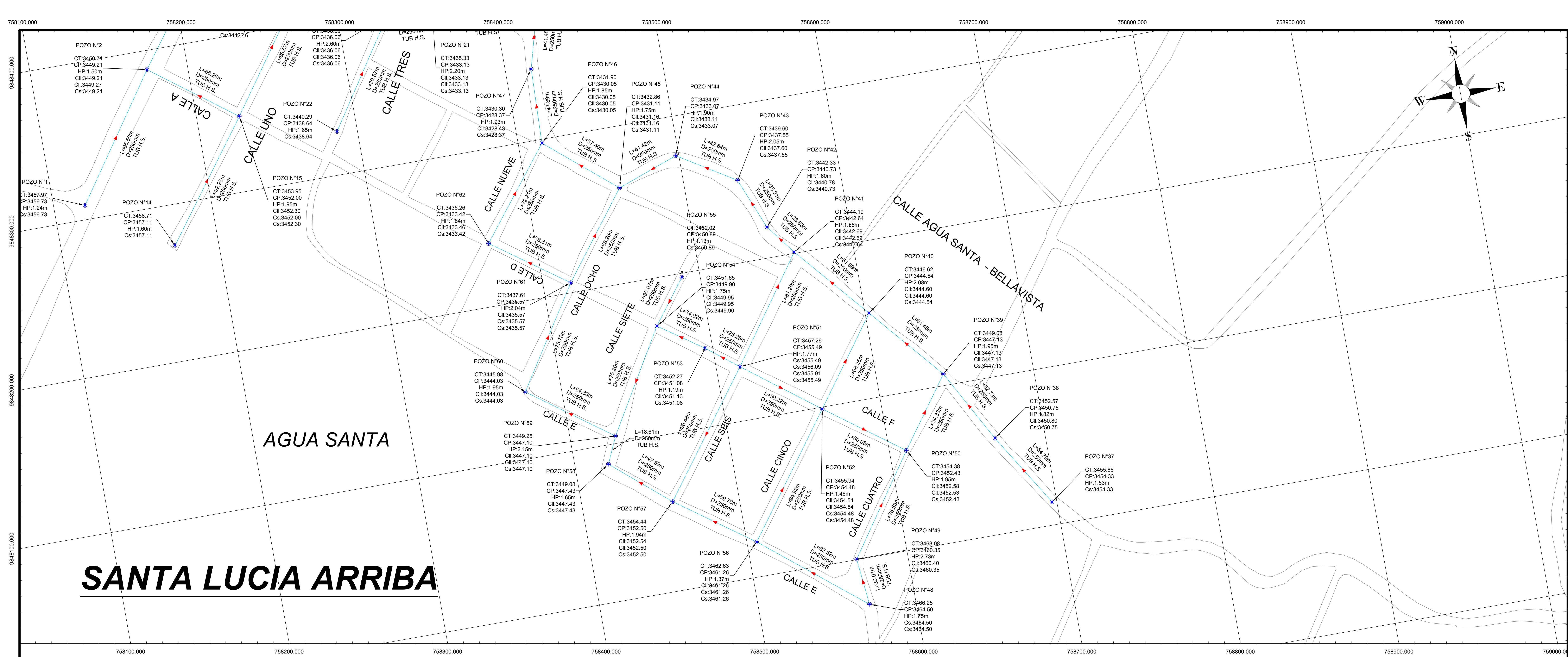
ELABORADO POR: Egidio Tambo Bonilla Testa  
 REVISADO POR: Ing. Galo Núñez Tutor  
 APROBADO POR: Ing. Galo Núñez Tutor

ESCALA: 1:1000  
 LÁMINA: LÁMINA - 03  
 TOTAL LÁMINAS: 06









### UBICACIÓN DEL PROYECTO

### DATOS GEOGRÁFICOS

**DATUM:** WGS84 ZONA 17S  
**COORDENADAS UTM:** 759353.24 m E  
 9850780.17 m S  
**ALTURA REFERENCIAL:** 3249 m

### SIMBOLOGÍA

TUBERÍA H.S. D = 250mm

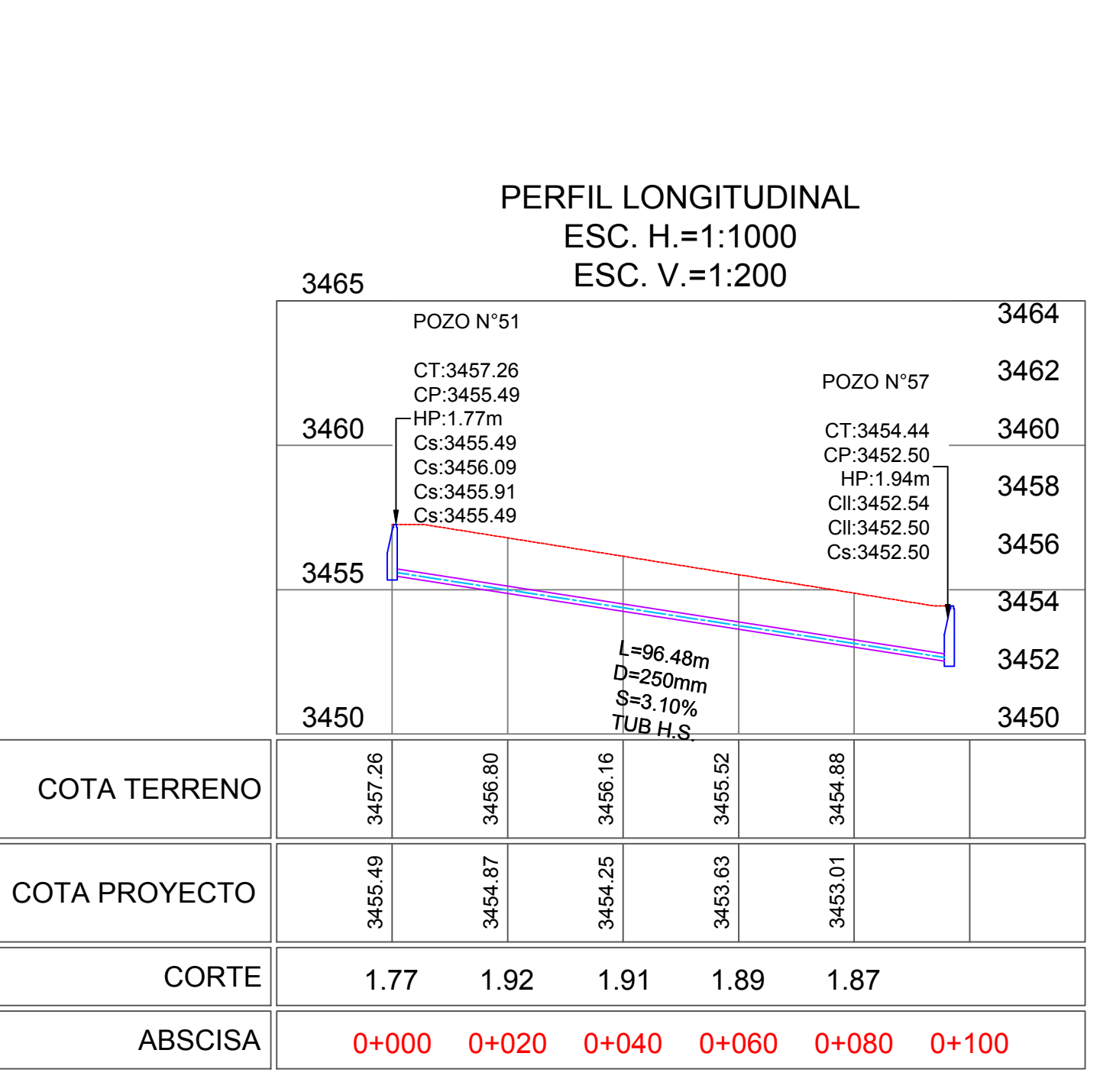
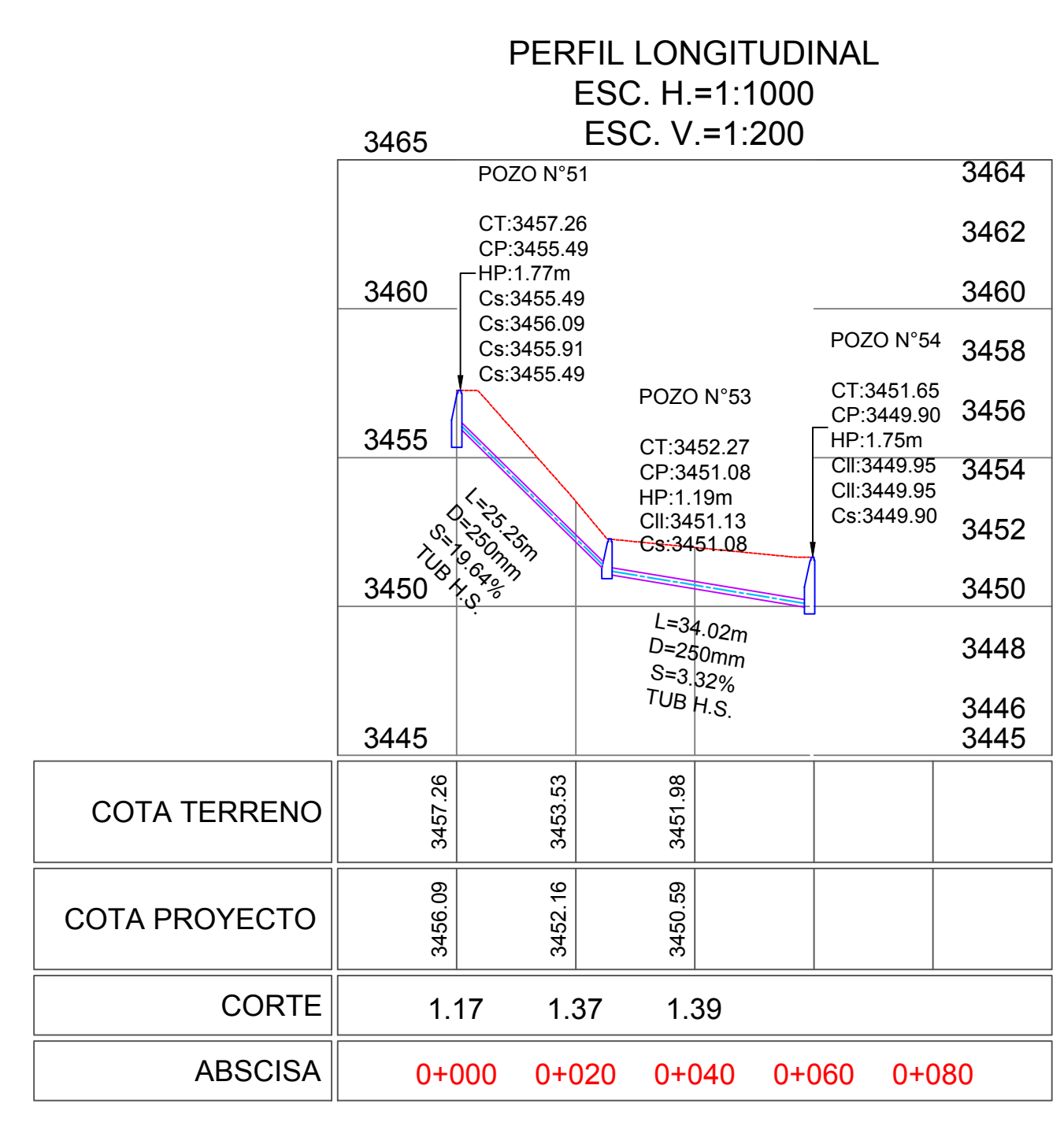
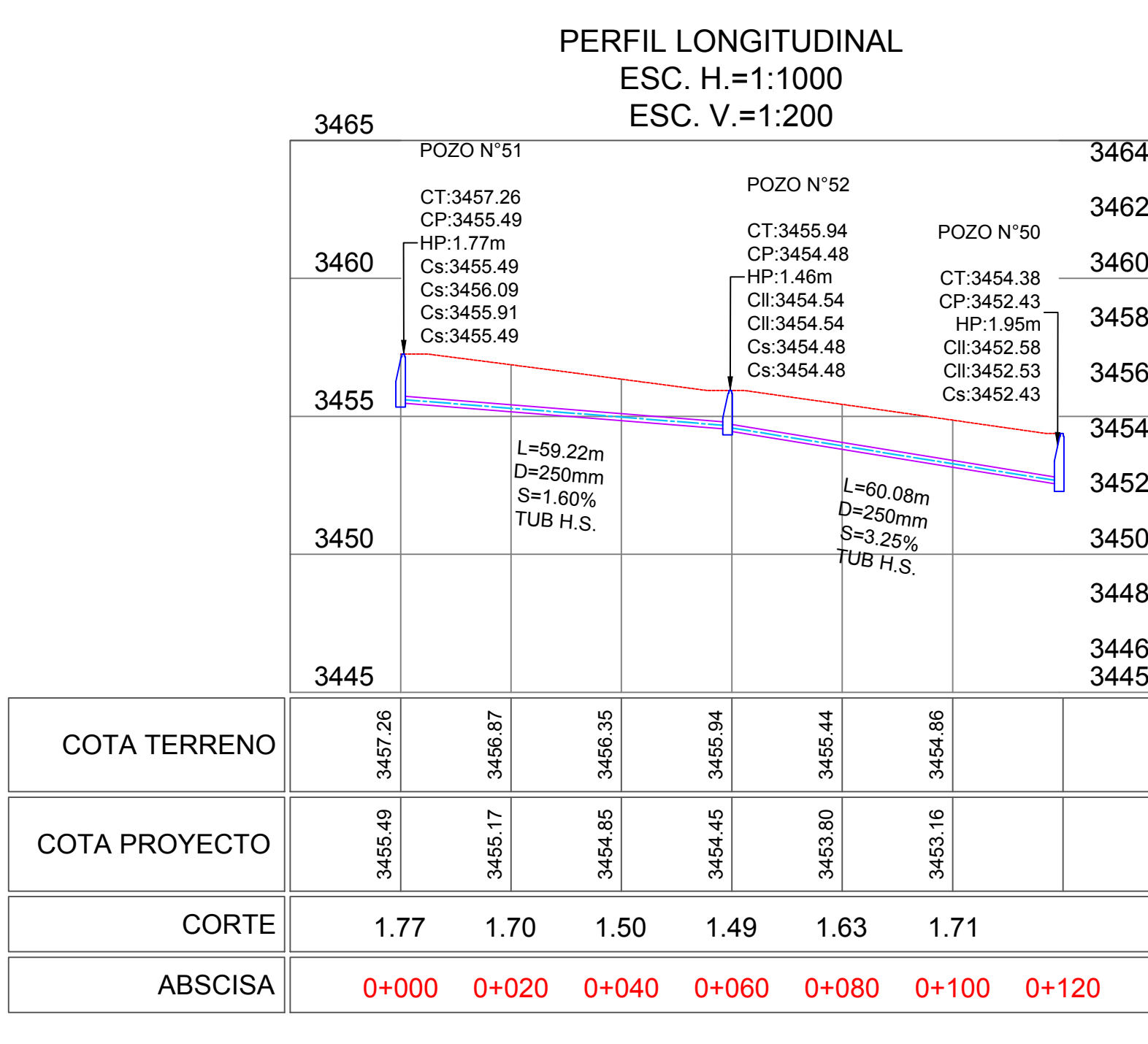
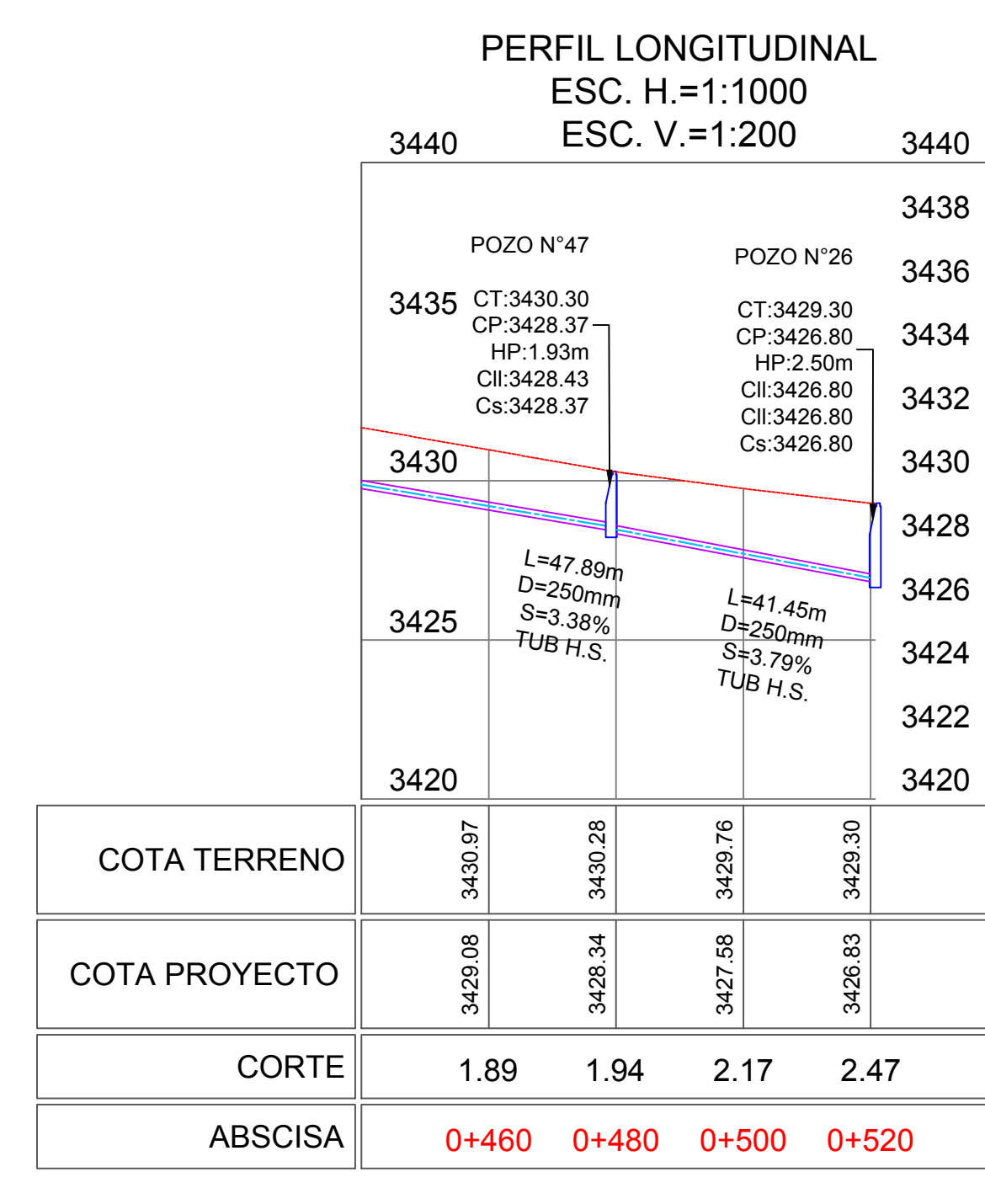
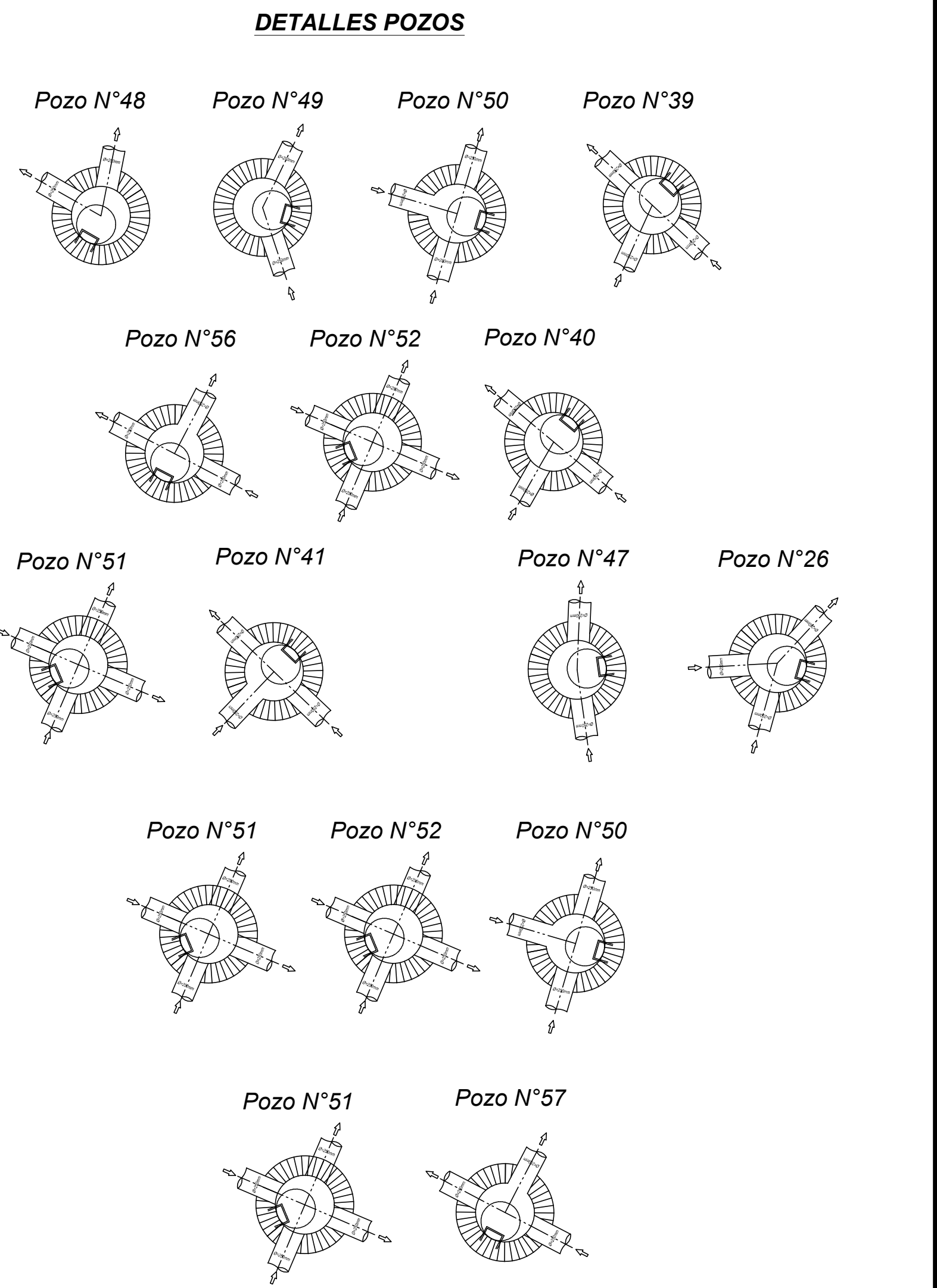
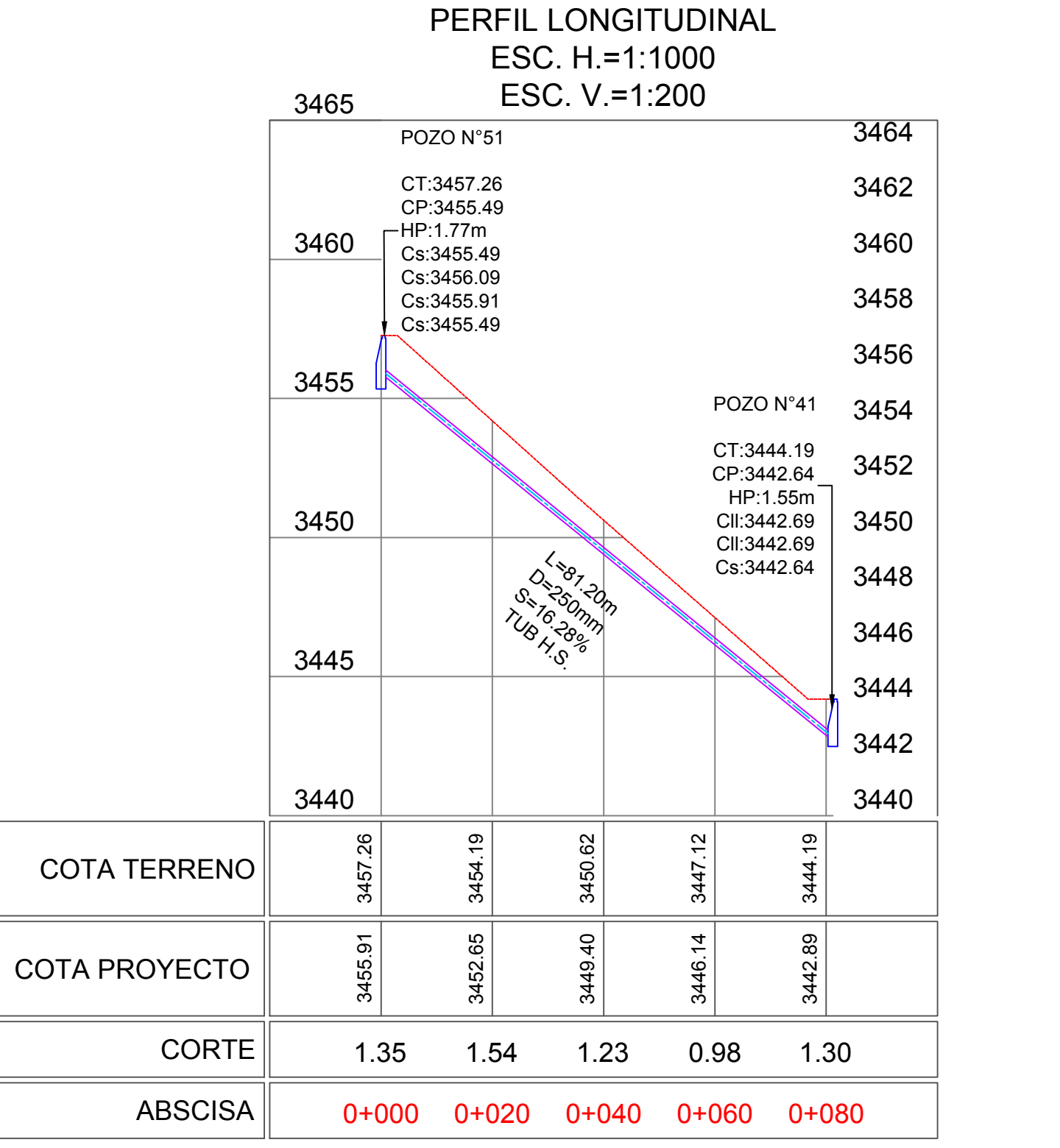
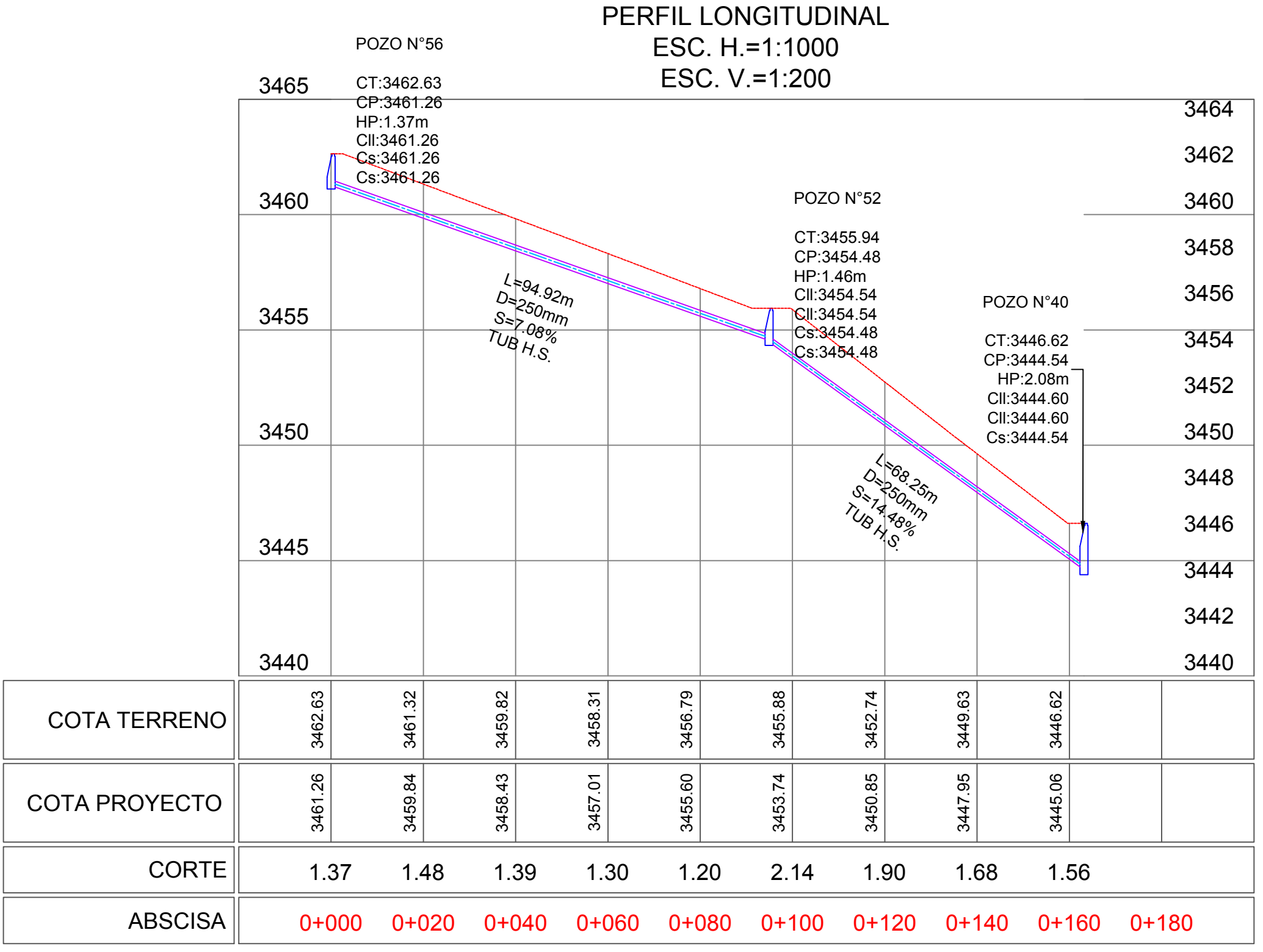
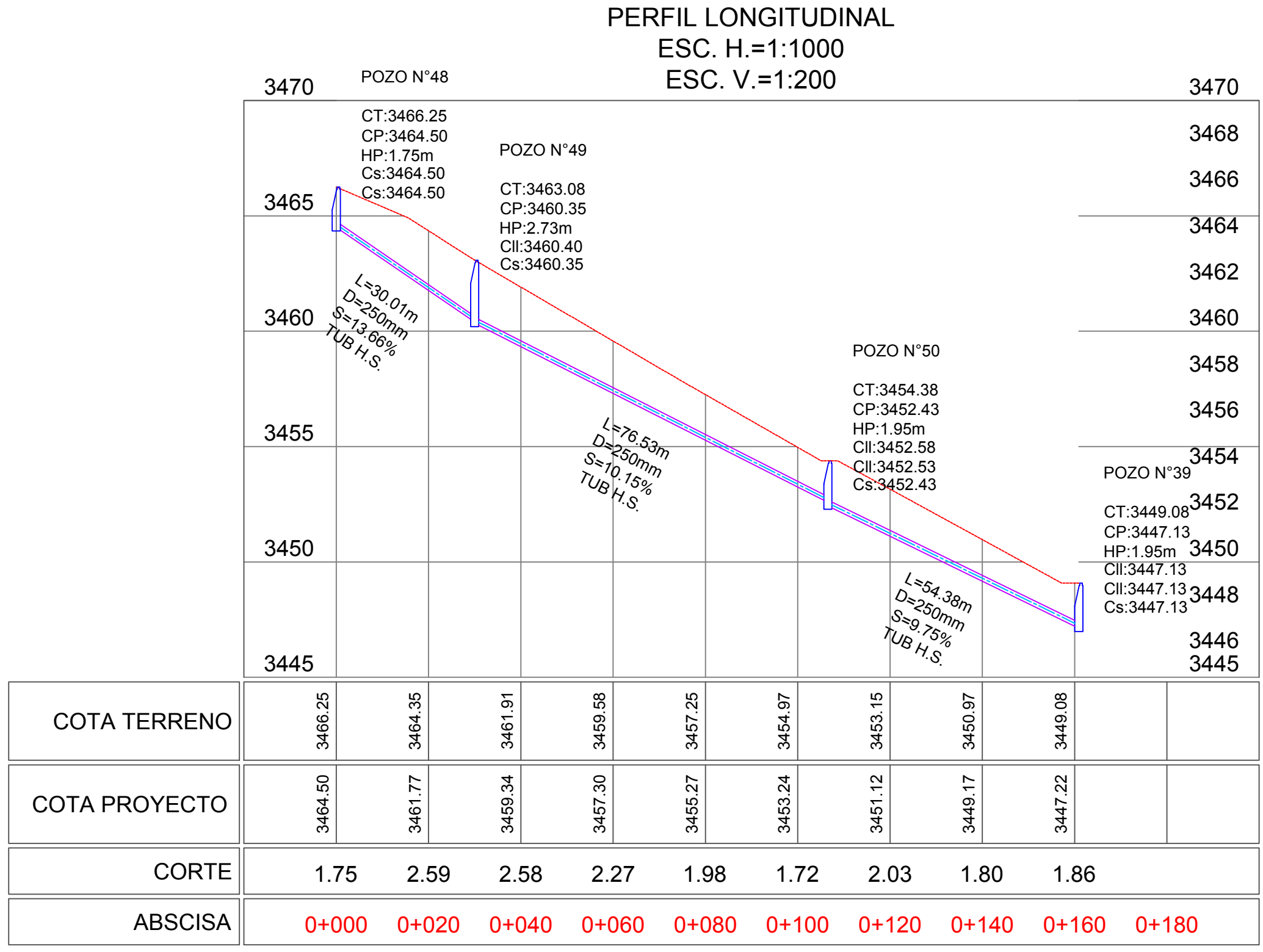
POZO DE REVISIÓN

PERFIL DEL TERRENO

CALLES / VÍAS

LÍMITES TERRITORIALES

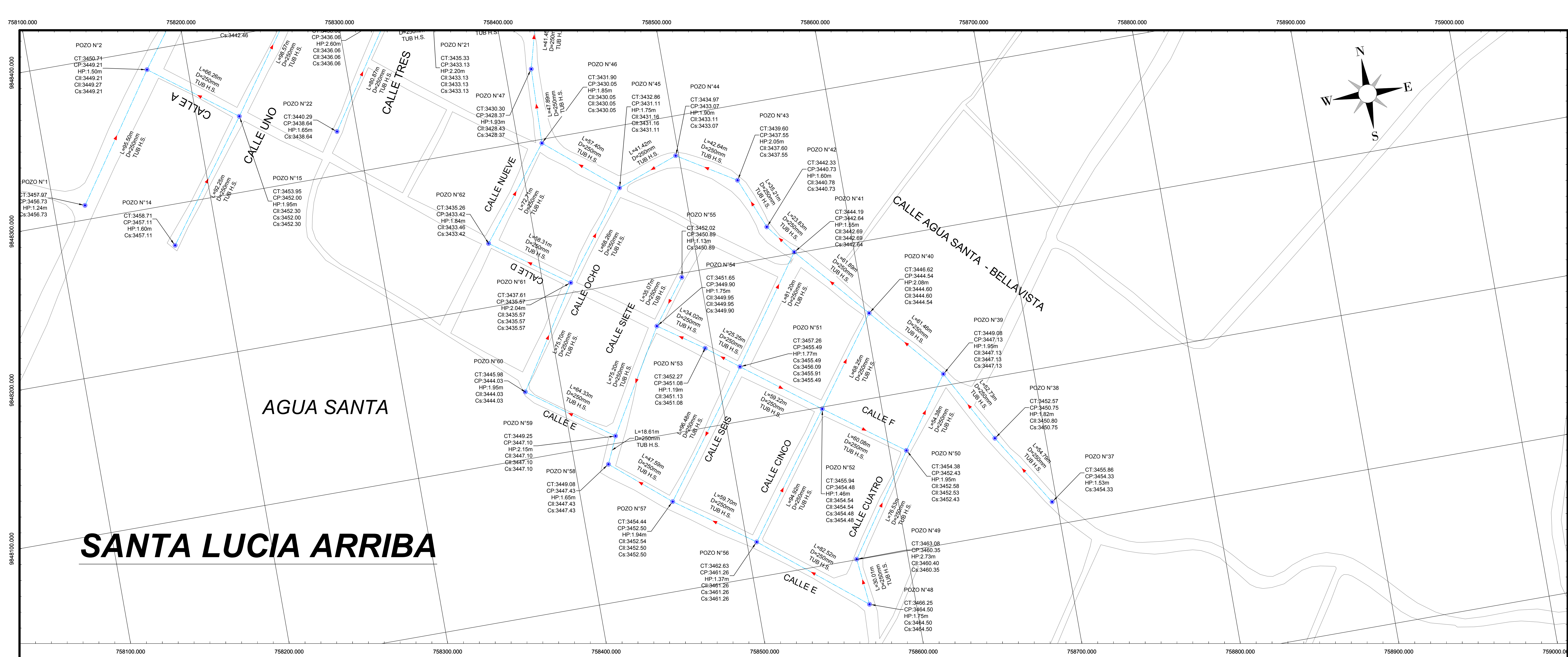
L LONGITUD DEL TRAMO  
 D / Ø DIÁMETRO DE TUBERÍA  
 S GRADIENTE HIDRÁULICA  
 CT COTA TERRENO  
 CP COTA PROYECTO  
 CIL COTA DE LLEGADA  
 CII COTA DE SALIDA  
 HP ALTURA DE POZO



### RED DE ALCANTARILLADO SANITARIO SANTA LUCÍA ARRIBA

N°	ESTE (m)	NORTE (m)	C. TERRENO	C. LLEGADA	C. SALIDA
<b>SANTA LUCÍA BELLAVISTA</b>					
<b>CAMINO A LA PLANTA DE TRATAMIENTO</b>					
21	758360.62	9848393.24	3435.33	3433.13	3433.13
26	758427.32	9848393.24	3429.30	3426.80	3426.80
27	758448.72	9848393.24	3422.94	3420.14	3420.14
28	758464.49	9848393.24	3416.62	3414.12	3414.12
29	758480.38	9848393.24	3410.34	3408.00	3408.00
30	758496.41	9848393.24	3404.11	3402.00	3402.00
31	758512.53	9848393.24	3397.94	3396.25	3396.25
32	758528.80	9848393.24	3391.82	3390.69	3390.69
33	758545.33	9848393.24	3385.75	3385.25	3385.25
34	758562.00	9848393.24	3379.73	3380.00	3380.00
35	758578.80	9848393.24	3373.75	3375.00	3375.00
36	758595.75	9848393.24	3367.82	3370.00	3370.00
37	758612.80	9848393.24	3361.94	3365.25	3365.25
38	758629.90	9848393.24	3356.11	3360.00	3360.00
39	758647.10	9848393.24	3350.34	3355.00	3355.00
40	758664.40	9848393.24	3344.62	3350.00	3350.00
41	758681.80	9848393.24	3338.95	3345.25	3345.25
42	758699.30	9848393.24	3333.34	3340.69	3340.69
43	758716.90	9848393.24	3327.78	3336.25	3336.25
44	758734.60	9848393.24	3322.27	3331.91	3331.91
45	758752.40	9848393.24	3316.81	3327.69	3327.69
46	758770.30	9848393.24	3311.40	3323.50	3323.50
47	758788.30	9848393.24	3306.04	3319.34	3319.34
48	758806.40	9848393.24	3300.73	3315.21	3315.21
49	758824.60	9848393.24	3295.47	3311.11	3311.11
50	758842.90	9848393.24	3290.26	3307.04	3307.04
51	758861.30	9848393.24	3285.10	3303.00	3303.00
52	758879.80	9848393.24	3280.00	3300.00	3300.00
53	758898.40	9848393.24	3274.94	3296.09	3296.09
54	758917.10	9848393.24	3269.94	3292.21	3292.21
55	758935.90	9848393.24	3264.99	3288.36	3288.36
56	758954.80	9848393.24	3260.09	3284.54	3284.54
57	758973.80	9848393.24	3255.24	3280.75	3280.75
58	758992.90	9848393.24	3250.44	3277.00	3277.00
59	759012.10	9848393.24	3245.69	3273.29	3273.29
60	759031.40	9848393.24	3240.99	3269.61	3269.61
61	759050.80	9848393.24	3236.34	3265.96	3265.96
62	759070.30	9848393.24	3231.74	3262.34	3262.34
63	759089.90	9848393.24	3227.19	3258.75	3258.75
64	759109.60	9848393.24	3222.69	3255.19	3255.19
65	759129.40	9848393.24	3218.24	3251.66	3251.66
66	759149.30	9848393.24	3213.84	3248.16	3248.16
67	759169.30	9848393.24	3209.49	3244.69	3244.69
68	759189.40	9848393.24	3205.19	3241.25	3241.25
69	759209.60	9848393.24	3200.94	3237.84	3237.84
70	759229.90	9848393.24	3196.74	3234.46	3234.46
71	759250.30	9848393.24	3192.59	3231.11	3231.11
72	759270.80	9848393.24	3188.49	3227.79	3227.79
73	759291.40	9848393.24	3184.44	3224.50	3224.50
74	759312.10	9848393.24	3180.44	3221.25	3221.25
75	759332.90	9848393.24	3176.49	3218.04	3218.04
76	759353.80	9848393.24	3172.59	3214.86	3214.86
77	759374.80	9848393.24	3168.74	3211.71	3211.71
78	759395.90	9848393.24	3164.94	3208.59	3208.59
79	759417.10	9848393.24	3161.19	3205.50	3205.50
80	759438.40	9848393.24	3157.49	3202.44	3202.44
81	759459.80	9848393.24	3153.84	3199.41	3199.41
82	759481.30	9848393.24	3150.24	3196.41	3196.41
83	759502.90	9848393.24	3146.69	3193.44	3193.44
84	759524.60	9848393.24	3143.19	3190.50	3190.50
85	759546.40	9848393.24	3139.74	3187.59	3187.59
86	759568.30	9848393.24	3136.34	3184.71	3184.71
87	759590.30	9848393.24	3132.99	3181.86	3181.86
88	759612.40	9848393.24	3129.69	3179.04	3179.04
89	759634.60	9848393.24	3126.44	3176.25	3176.25
90	759656.90	9848393.24	3123.24	3173.49	3173.49
91	759679.30	9848393.24	3120.09	3170.76	3170.76
92	759701.80	9848393.24	3116.99	3168.06	3168.06
93	759724.40	9848393.24	3113.94	3165.39	3165.39
94	759747.10	9848393.24	3110.94	3162.75	3162.75
95	759769.90	9848393.24	3107.99	3160.14	3160.14
96	759792.80	9848393.24	3105.09	3157.56	3157.56
97	759815.80	9848393.24	3102.24	3155.01	3155.01
98	759838.90	9848393.24	3099.44	3152.49	3152.49
99	759862.10	9848393.24	3096.69	3149.99	3149.99
100	759885.40	9848393.24	3094.00	3147.52	3147.52
101	759908.80	9848393.24	3091.36	3145.08	3145.08
102	759932.30	9848393.24	3088.77	3142.67	3142.67
103	759955.90	9848393.24	3086.22	3140.29	3140.29
104	759979.60	9848393.24	3083.71	3137.94	3137.94
105	759999.40	9848393.24	3081.24	3135.62	3135.62
106	760019.30	9848393.24	3078.82	3133.33	3133.33
107	760039.30	9848393.24	3076.44	3131.07	3131.07
108	760059.40	9848393.24	3074.11	3128.84	3128.84
109	760079.60	9848393.24	3071.83	3126.64	3126.64
110	760099.90	9848393.24	3069.59	3124.47	3124.47
111	760120.30	9848393.24	3067.39	3122.33	3122.33
112	760140.80	9848393.24	3065.24	3120.22	3120.22
113	760161.40	9848393.24	3063.14	3118.14	3118.14
114	760182.10	9848393.24	3061.09	3116.09	3116.09
115	760202.90	9848393.24	3059.09	3114.07	3114.07
116	760223.80	9848393.24	3057.14	3112.08	3112.08
117	760244.80	9848393.24	3055.24	3110.11	3110.11
118	760265.90	9848393.24	3053.39	3108.17	3108.17
119	760287.10	9848393.24	3051.59	3106.26	3106.26





### UBICACIÓN DEL PROYECTO

### DATOS GEOGRÁFICOS

**DATUM:** WGS84 ZONA 17S

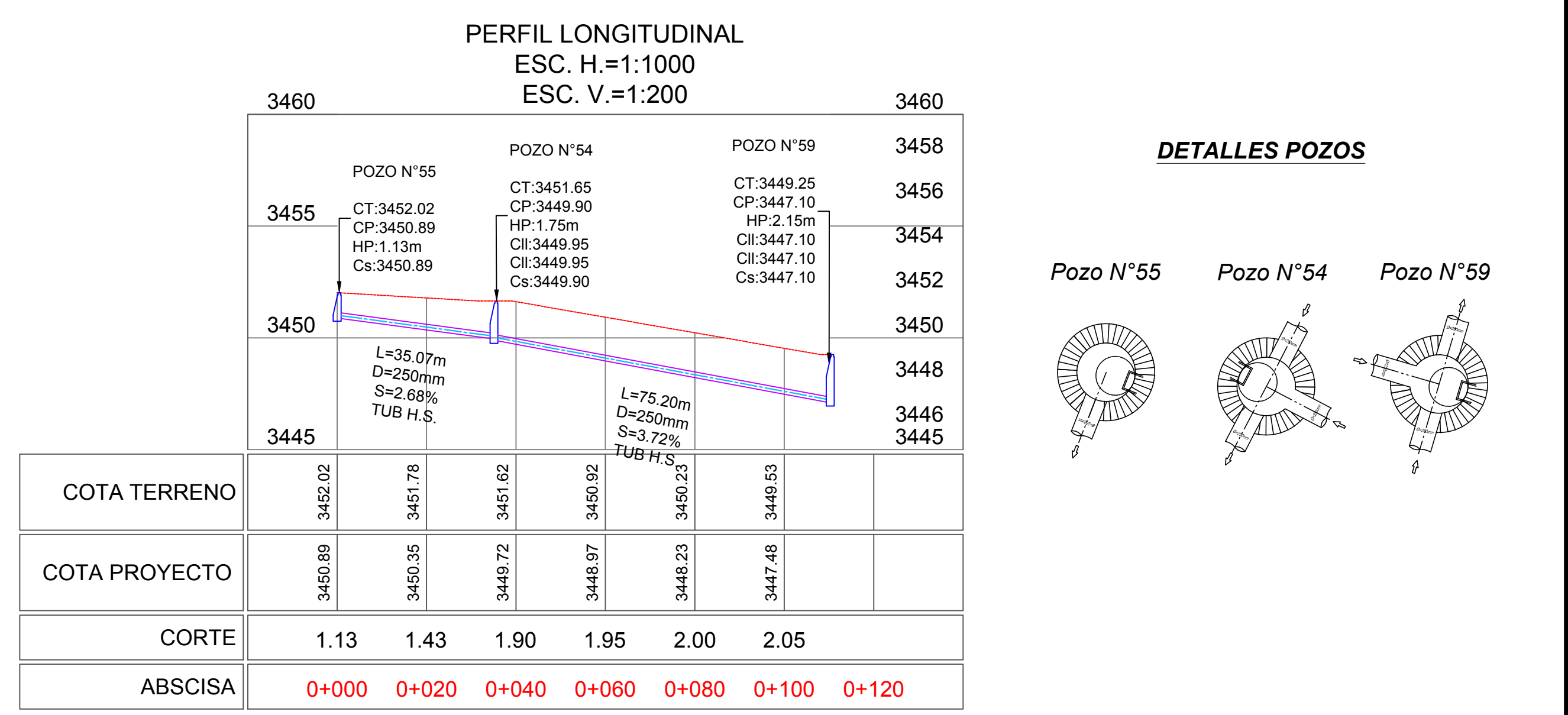
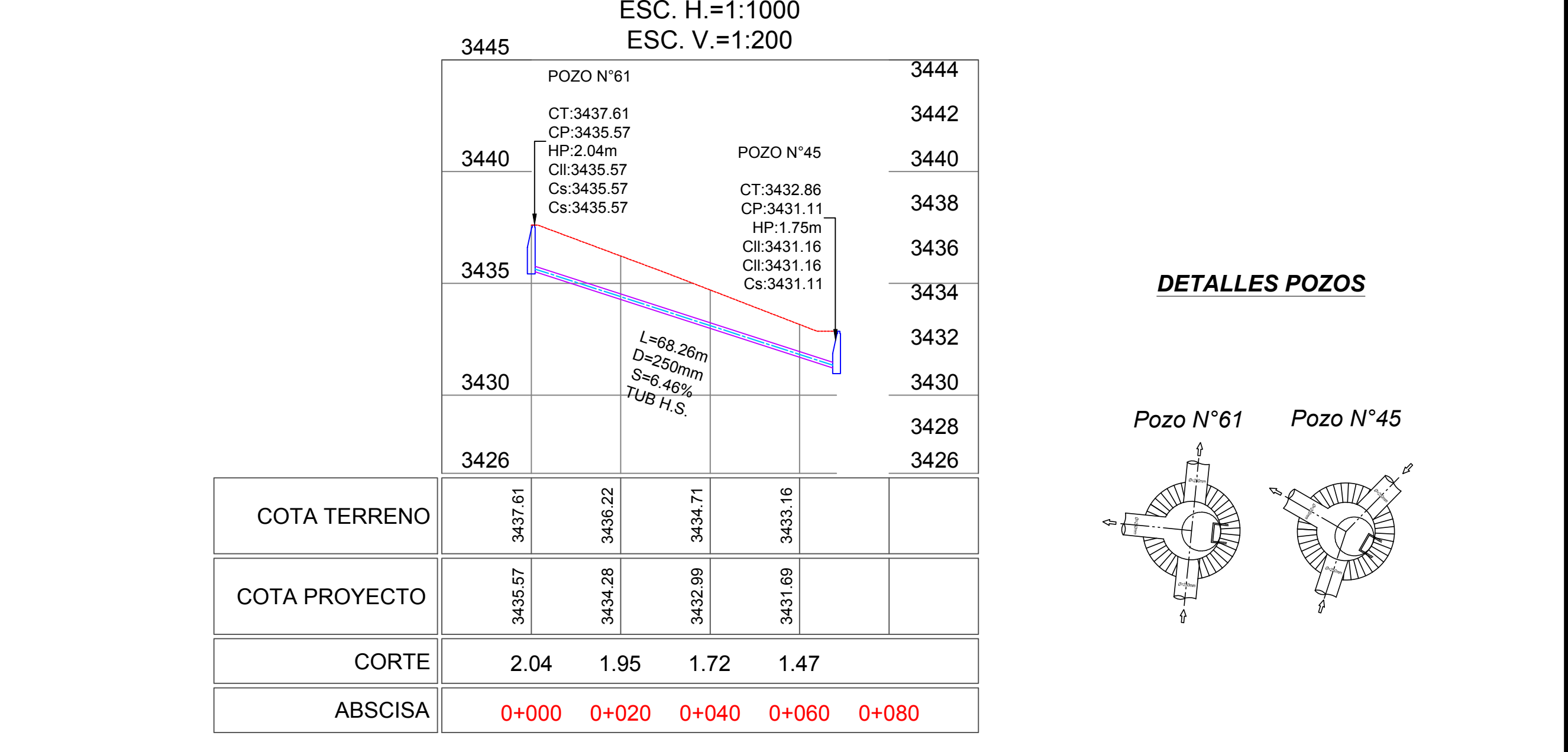
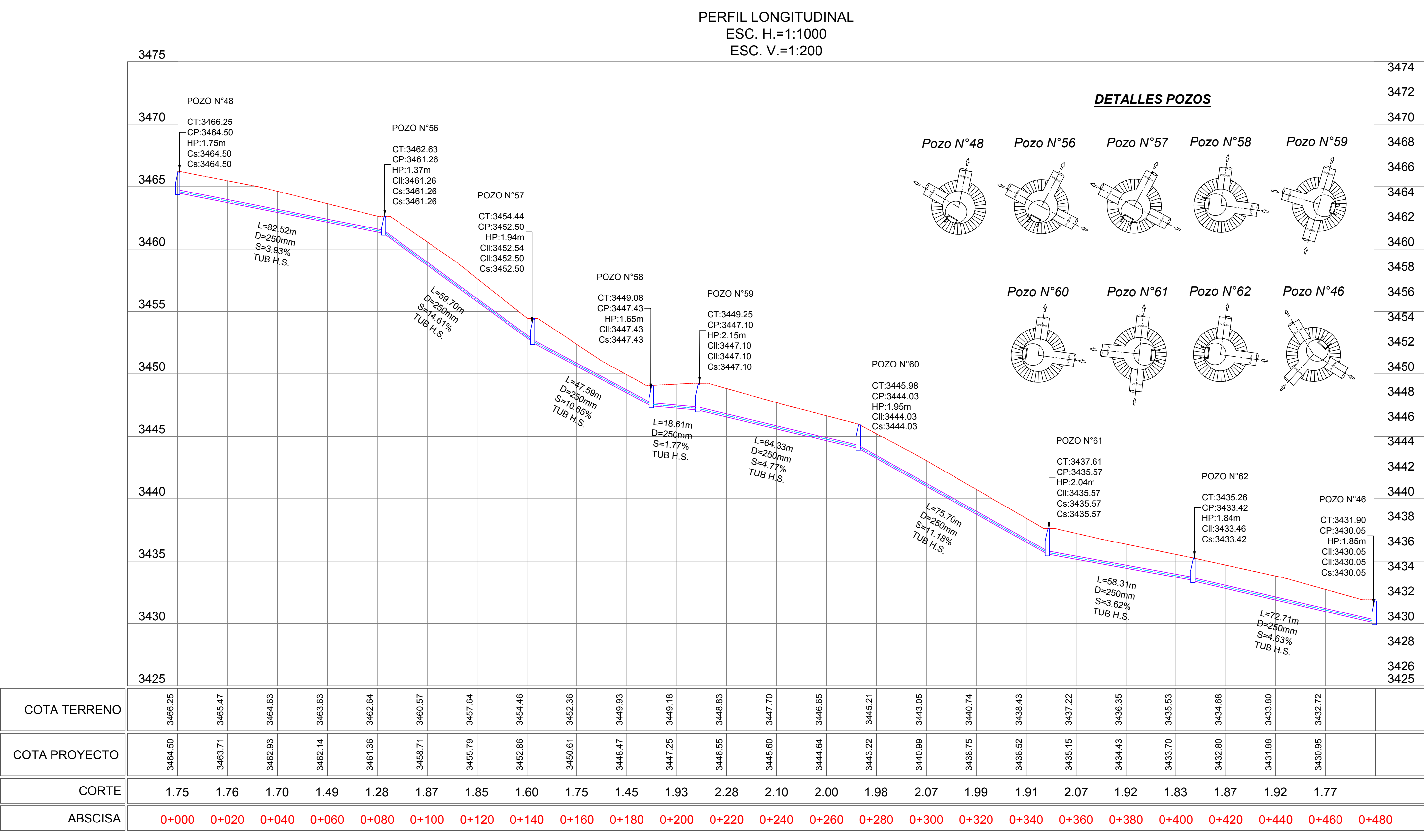
**COORDENADAS UTM:**  
759353.24 m E  
9850780.17 m S

**ALTURA REFERENCIAL:**  
3249 m

### SIMBOLOGÍA

- TUBERÍA H.S. D = 250mm
- POZO DE REVISIÓN
- PERFIL DEL TERRENO
- CALLES / VÍAS
- LÍMITES TERRITORIALES

L	LONGITUD DEL TRAMO
D / Ø	DIÁMETRO DE TUBERÍA
S	GRADIENTE HIDRÁULICA
CT	COTA TERRENO
CP	COTA PROYECTO
Cl	COTA DE LLEGADA
Cs	COTA DE SALIDA
HP	ALTURA DE POZO



### RED DE ALCANTARILLADO SANITARIO SANTA LUCÍA BELLAVISTA

N°	ESTE (m)	NORTE (m)	C. TERRENO	C. LLEGADA	C. SALIDA
CALLE AGUA SANTA - BELLAVISTA					
21	758360.62	9848393.29	3435.53	3433.13	3433.13
26	758427.32	9848393.44	3429.30	3426.80	3426.80
27	758448.72	9848393.61	3422.94	3420.74	3420.74
28	758464.49	9848393.76	3416.62	3414.12	3414.12
29	758480.38	9848393.91	3410.36	3407.56	3407.56
30	758496.41	9848394.06	3404.14	3401.04	3401.04
31	758512.58	9848394.21	3397.96	3394.54	3394.54
32	758528.85	9848394.36	3391.81	3388.01	3388.01
33	758545.22	9848394.51	3385.68	3381.48	3381.48
34	758561.69	9848394.66	3379.58	3374.98	3374.98
35	758578.16	9848394.81	3373.50	3368.48	3368.48
36	758594.63	9848394.96	3367.44	3361.98	3361.98
37	758611.10	9848395.11	3361.40	3355.48	3355.48
38	758627.57	9848395.26	3355.38	3348.98	3348.98
39	758644.04	9848395.41	3349.38	3342.48	3342.48
40	758660.51	9848395.56	3343.40	3335.98	3335.98
41	758676.98	9848395.71	3337.43	3329.48	3329.48
42	758693.45	9848395.86	3331.48	3322.98	3322.98
43	758709.92	9848396.01	3325.54	3316.48	3316.48
44	758726.39	9848396.16	3319.61	3309.98	3309.98
45	758742.86	9848396.31	3313.69	3303.48	3303.48
46	758759.33	9848396.46	3307.78	3296.98	3296.98
47	758775.80	9848396.61	3301.88	3290.48	3290.48
48	758792.27	9848396.76	3295.98	3283.98	3283.98
49	758808.74	9848396.91	3290.08	3277.48	3277.48
50	758825.21	9848397.06	3284.18	3270.98	3270.98
51	758841.68	9848397.21	3278.28	3264.48	3264.48
52	758858.15	9848397.36	3272.38	3257.98	3257.98
53	758874.62	9848397.51	3266.48	3251.48	3251.48
54	758891.09	9848397.66	3260.58	3244.98	3244.98
55	758907.56	9848397.81	3254.68	3238.48	3238.48
56	758924.03	9848397.96	3248.78	3231.98	3231.98
57	758940.50	9848398.11	3242.88	3225.48	3225.48
58	758956.97	9848398.26	3236.98	3218.98	3218.98
59	758973.44	9848398.41	3231.08	3212.48	3212.48
60	758989.91	9848398.56	3225.18	3205.98	3205.98
61	759006.38	9848398.71	3219.28	3199.48	3199.48
62	759022.85	9848398.86	3213.38	3192.98	3192.98
63	759039.32	9848399.01	3207.48	3186.48	3186.48
64	759055.79	9848399.16	3201.58	3179.98	3179.98
65	759072.26	9848399.31	3195.68	3173.48	3173.48
66	759088.73	9848399.46	3189.78	3166.98	3166.98
67	759105.20	9848399.61	3183.88	3160.48	3160.48
68	759121.67	9848399.76	3177.98	3153.98	3153.98
69	759138.14	9848399.91	3172.08	3147.48	3147.48
70	759154.61	9848400.06	3166.18	3140.98	3140.98
71	759171.08	9848400.21	3160.28	3134.48	3134.48
72	759187.55	9848400.36	3154.38	3127.98	3127.98
73	759204.02	9848400.51	3148.48	3121.48	3121.48
74	759220.49	9848400.66	3142.58	3114.98	3114.98
75	759236.96	9848400.81	3136.68	3108.48	3108.48
76	759253.43	9848400.96	3130.78	3101.98	3101.98
77	759269.90	9848401.11	3124.88	3095.48	3095.48
78	759286.37	9848401.26	3118.98	3088.98	3088.98
79	759302.84	9848401.41	3113.08	3082.48	3082.48
80	759319.31	9848401.56	3107.18	3075.98	3075.98
81	759335.78	9848401.71	3101.28	3069.48	3069.48
82	759352.25	9848401.86	3095.38	3062.98	3062.98
83	759368.72	9848402.01	3089.48	3056.48	3056.48
84	759385.19	9848402.16	3083.58	3049.98	3049.98
85	759401.66	9848402.31	3077.68	3043.48	3043.48
86	759418.13	9848402.46	3071.78	3036.98	3036.98
87	759434.60	9848402.61	3065.88	3030.48	3030.48
88	759451.07	9848402.76	3059.98	3023.98	3023.98
89	759467.54	9848402.91	3054.08	3017.48	3017.48
90	759484.01	9848403.06	3048.18	3010.98	3010.98
91	759500.48	9848403.21	3042.28	3004.48	3004.48
92	759516.95	9848403.36	3036.38	2997.98	2997.98
93	759533.42	9848403.51	3030.48	2991.48	2991.48
94	759549.89	9848403.66	3024.58	2984.98	2984.98
95	759566.36	9848403.81	3018.68	2978.48	2978.48
96	759582.83	9848403.96	3012.78	2971.98	2971.98
97	759599.30	9848404.11	3006.88	2965.48	2965.48
98	759615.77	9848404.26	3000.98	2958.98	2958.98
99	759632.24	9848404.41	2995.08	2952.48	2952.48
100	759648.71	9848404.56	2989.18	2945.98	2945.98

**G.A.D. MUNICIPAL DEL CANTÓN TISALEO**

"CATASTRO DE LOS SISTEMAS DE ALCANTARILLADO A TRAVÉS DE LA GEOREFERENCIACIÓN Y DIGITALIZACIÓN PARA MEJORAR LA CALIDAD DE INFORMACIÓN SANITARIA DE LA PARROQUIA URBANA TISALEO Y CASERIOS SAN LUIS, SAN FRANCISCO, SAN JUAN, SAN DIEGO, ALDABANA, SANTA LUCÍA LIBERTAD, SANTA LUCÍA-CENTRO, SANTA LUCÍA ARRIBA, EL CALVARIO DEL CANTÓN TISALEO, PROVINCIA DE TUNGURAHUA"

CONTENIDO: RED DE ALCANTARILLADO SANITARIO SANTA LUCÍA BELLAVISTA BARRIO AGUA SANTA

PROVINCIA: TUNGURAHUA CANTÓN: TISALEO SECTOR: SANTA LUCÍA ARRIBA

FECHA: AGOSTO, 2022

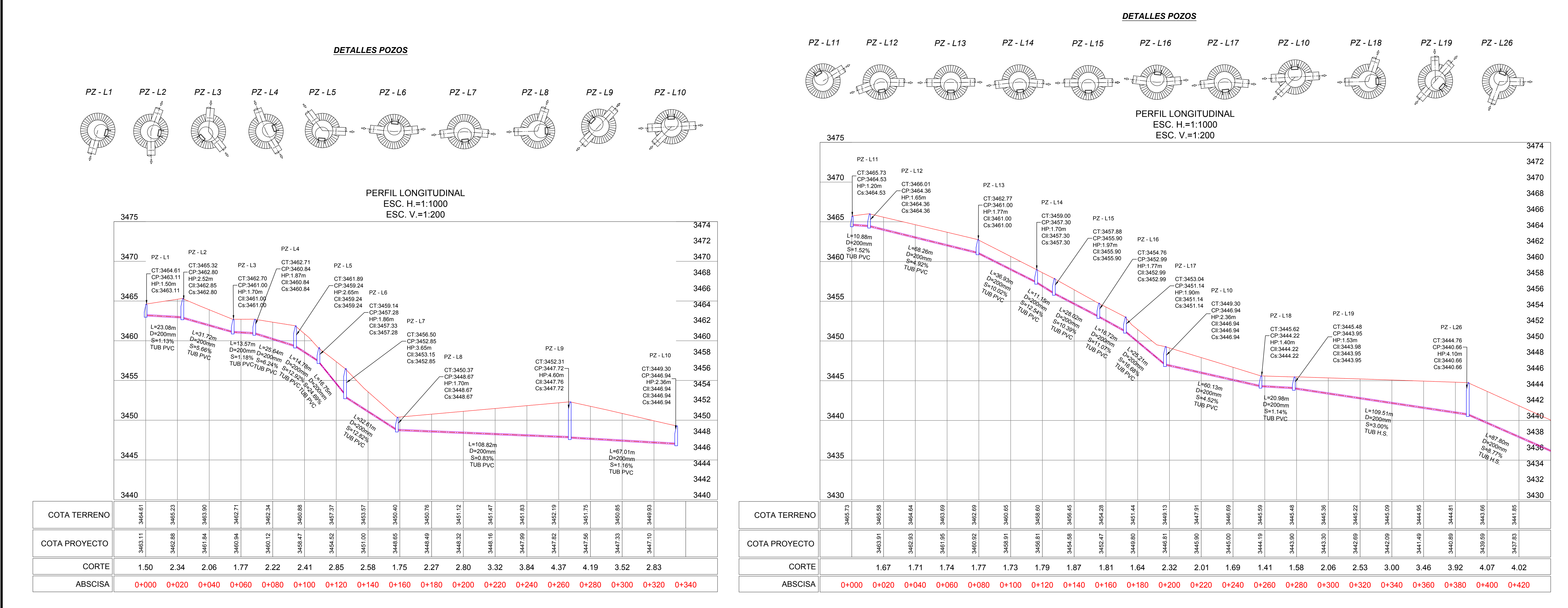
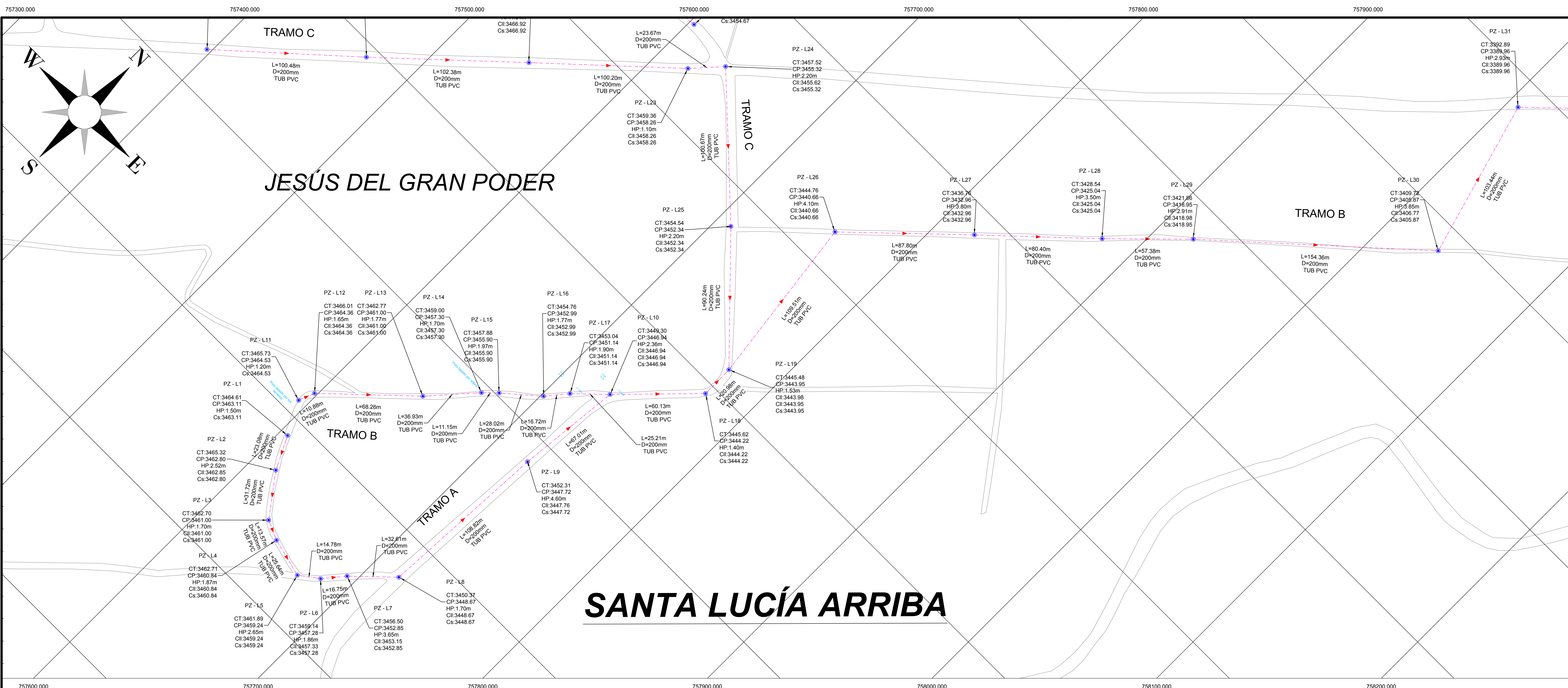
ELABORADO POR: REVISADO POR: APROBADO POR: LÁMINA: 06

Egita Tamara Bonita Testa Ing. Galo Núñez Tutor Ing. Galo Núñez Tutor TOTAL LÁMINAS: 06



***RED DE ALCANTARILLADO  
SANITARIO SANTA LUCIA***





### UBICACIÓN DEL PROYECTO

### DATOS GEOGRÁFICOS

**DATUM:** WGS84 ZONA 17S  
**COORDENADAS UTM:** 759353.24 m E, 9850780.17 m S  
**ALTURA REFERENCIAL:** 3249 m

### SIMBOLOGÍA

- TUBERÍA PVC D = 200mm
- POZO DE REVISIÓN
- PERFIL DEL TERRENO
- CALLES / VÍAS
- LÍMITES TERRITORIALES

### LEYENDA

- L LONGITUD DEL TRAMO
- D / Ø DIÁMETRO DE TUBERÍA
- CS GRADIENTE HIDRÁULICA
- CT COTA TERRENO
- CP COTA PROYECTO
- CI COTA DE LLEGADA
- Cs COTA DE SALIDA
- HP ALTURA DE POZO

#### RED DE ALCANTARILLADO SANITARIO SANTA LUCÍA

##### SANTA LUCÍA ARRIBA - JESUS DEL GRAN PODER

POZO	ESTE (m)	NORTE (m)	C. TERRENO (m)	C. LLEGADA (m)	C. SALIDA (m)
<b>TRAMO A</b>					
PZ-L1	757605.09	9846288.91	3464.61	3465.00	3463.11
PZ-L2	757615.30	9846282.21	3465.32	3465.85	3462.83
PZ-L3	757634.34	9846242.84	3462.70	3461.00	3461.00
PZ-L4	757646.75	9846237.34	3462.71	3460.84	3460.84
PZ-L5	757671.61	9846231.08	3461.89	3459.24	3459.24
PZ-L6	757683.49	9846228.88	3459.08	3457.33	3457.28
PZ-L7	757694.16	9846252.78	3456.50	3453.15	3452.85
PZ-L8	757717.69	9846275.36	3450.37	3448.67	3448.67
PZ-L9	757723.58	9846384.02	3452.32	3447.77	3447.72
PZ-L10	757730.34	9846450.69	3449.30	3446.94	3446.94
<b>TRAMO B</b>					
PZ-L11	757694.34	9846309.50	3465.73	3464.36	3464.53
PZ-L12	757698.30	9846193.81	3465.01	3464.36	3464.36
PZ-L13	757647.82	9846366.61	3462.77	3461.00	3461.00
PZ-L14	757672.33	9848394.24	3459.00	3457.30	3457.30
PZ-L15	757680.34	9848402.00	3457.89	3455.91	3455.91
PZ-L16	757701.57	9849420.28	3454.76	3452.99	3452.99
PZ-L17	757712.17	9848433.21	3453.04	3451.14	3451.14
PZ-L18	757730.34	9848450.69	3449.30	3446.94	3446.94
PZ-L19	757723.58	9849453.69	3445.62	3444.22	3444.22
PZ-L20	757722.25	9849514.58	3445.48	3443.98	3443.95
PZ-L21	757758.17	9848263.18	3444.76	3440.06	3440.06
PZ-L22	757821.56	9848983.93	3436.76	3432.96	3432.96
PZ-L23	757860.00	9848720.85	3429.54	3424.04	3424.04
PZ-L24	757920.88	9848779.42	3421.86	3418.98	3418.95
PZ-L25	758005.09	9848883.26	3409.72	3406.77	3405.87
PZ-L26	758006.11	9849582.72	3392.89	3389.96	3389.96
PZ-L27	758151.55	9849123.59	3363.37	3361.51	3361.47
PZ-L28	758203.69	9849174.72	3357.10	3354.77	3354.67
PZ-L29	758271.56	9849234.81	3349.17	3347.02	3346.92
PZ-L30	758333.77	9849299.53	3342.56	3340.86	3340.76
PZ-L31	758408.63	9849373.46	3333.67	3332.07	3331.92
PZ-L32	758473.01	9849436.68	3327.29	3325.99	3325.49
PZ-L33	758561.50	9849492.64	3319.34	3317.46	3317.36
PZ-L34	758650.51	9849549.74	3312.23	3310.23	3310.11
PZ-L35	758696.19	9849579.46	3307.57	3305.64	3305.54
PZ-L36	758732.40	9849611.83	3301.15	3298.47	3298.52
PZ-L37	758756.18	9849662.05	3293.01	3290.61	3289.81
<b>TRAMO B-1</b>					
PZ-L38	758257.10	9849073.78	3336.43	3335.17	3335.80
PZ-L39	758228.25	9849128.13	3337.17	3335.17	3335.17
PZ-L40	758203.69	9849174.72	3337.10	3334.77	3334.67
<b>TRAMO C</b>					
PZ-L41	757397.39	9848424.75	3465.59	-	3464.54
PZ-L42	757471.78	9848492.34	3479.91	3478.11	3478.11
PZ-L43	757546.56	9848562.26	3468.56	3466.92	3466.92
PZ-L44	757619.98	9848630.45	3459.36	3458.26	3458.26
PZ-L45	757635.62	9848648.05	3457.52	3455.62	3455.62
PZ-L46	757709.35	9848579.28	3454.54	3452.34	3452.34
PZ-L47	757772.25	9848514.58	3445.48	3443.95	3443.95

#### G.A.D. MUNICIPAL DEL CANTON TISALEO

"CATASTRO DE LOS SISTEMAS DE ALCANTARILLADO A TRAVÉS DE LA GEOREFERENCIACIÓN Y DIGITALIZACIÓN PARA MEJORAR LA CALIDAD DE INFORMACIÓN SANITARIA DE LA PARROQUIA URBANA TISALEO Y CASERIOS SAN LUIS, SAN FRANCISCO, SAN JUAN, SAN DIEGO, ALDEBARA, SANTA LUCÍA-LA LIBERTAD, SANTA LUCÍA-CENTRO, SANTA LUCÍA ARRIBA, EL ALVARADO DEL CANTÓN TISALEO, PROVINCIA DE TUNGURAHU"

CONTENIDO: RED DE ALCANTARILLADO SANITARIO SANTA LUCÍA - TRAMO A, B, BARRIO JESUS DE GRAN PODER

UNIVERSIDAD TÉCNICA DE AMBATO  
 FACULTAD DE INGENIERÍA CIVIL Y MECÁNICA  
 CÁTEDRA DE INGENIERÍA CIVIL

ELABORADO POR: Ing. Gato Nuñez Tutor  
 REVISADO POR: Ing. Gato Nuñez Tutor  
 APROBADO POR: Ing. Gato Nuñez Tutor

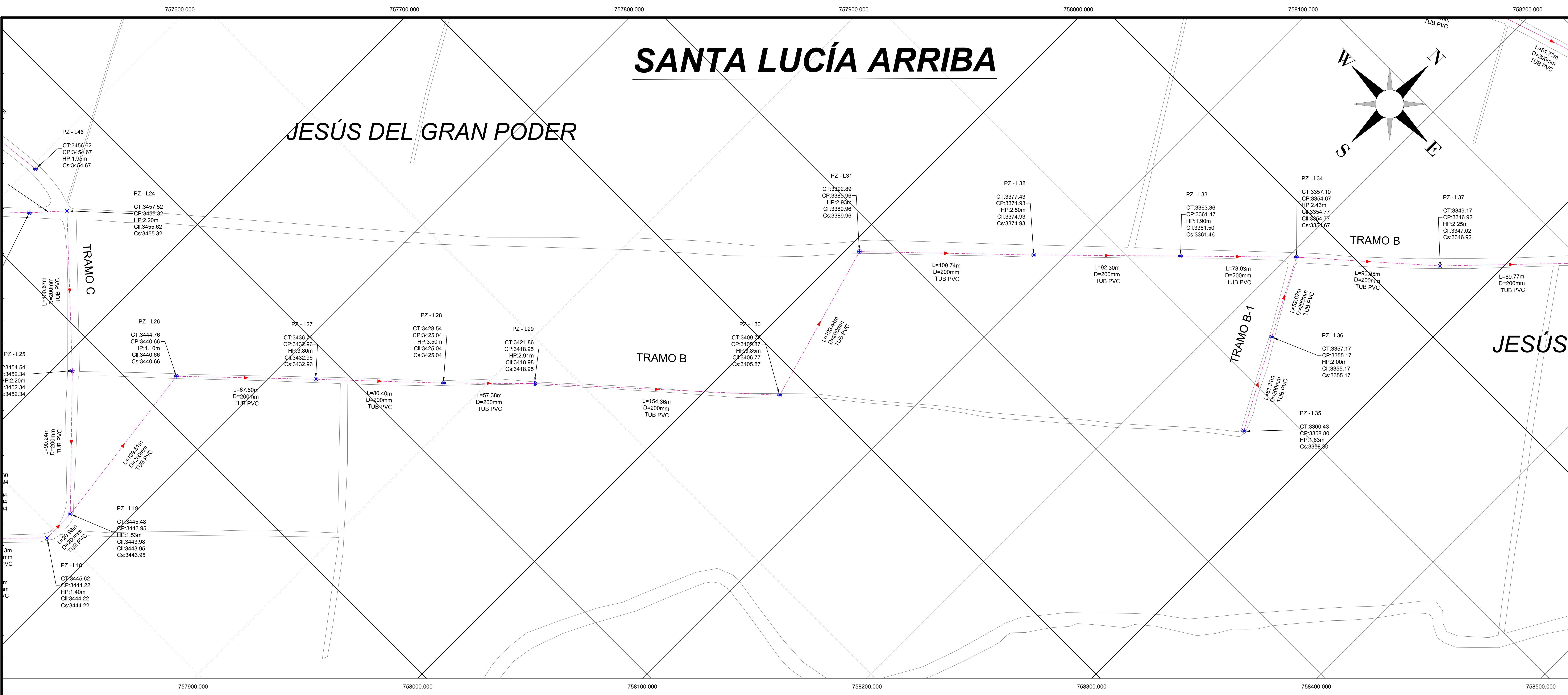
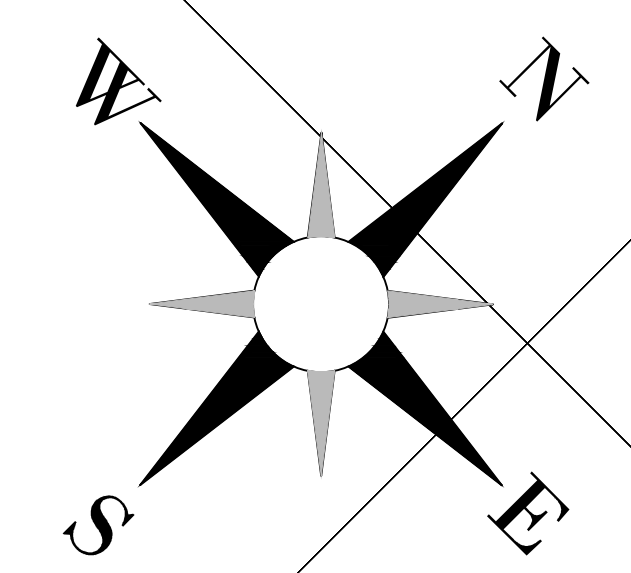
PROVINCIA: TUNGURAHUA  
 CANTÓN: TISALEO  
 SECTOR: SANTA LUCÍA ARRIBA  
 ESCALA: 1:1000  
 FECHA: SEPTIEMBRE 2022  
 LÁMINA: L-01  
 TOTAL LÁMINAS: 40



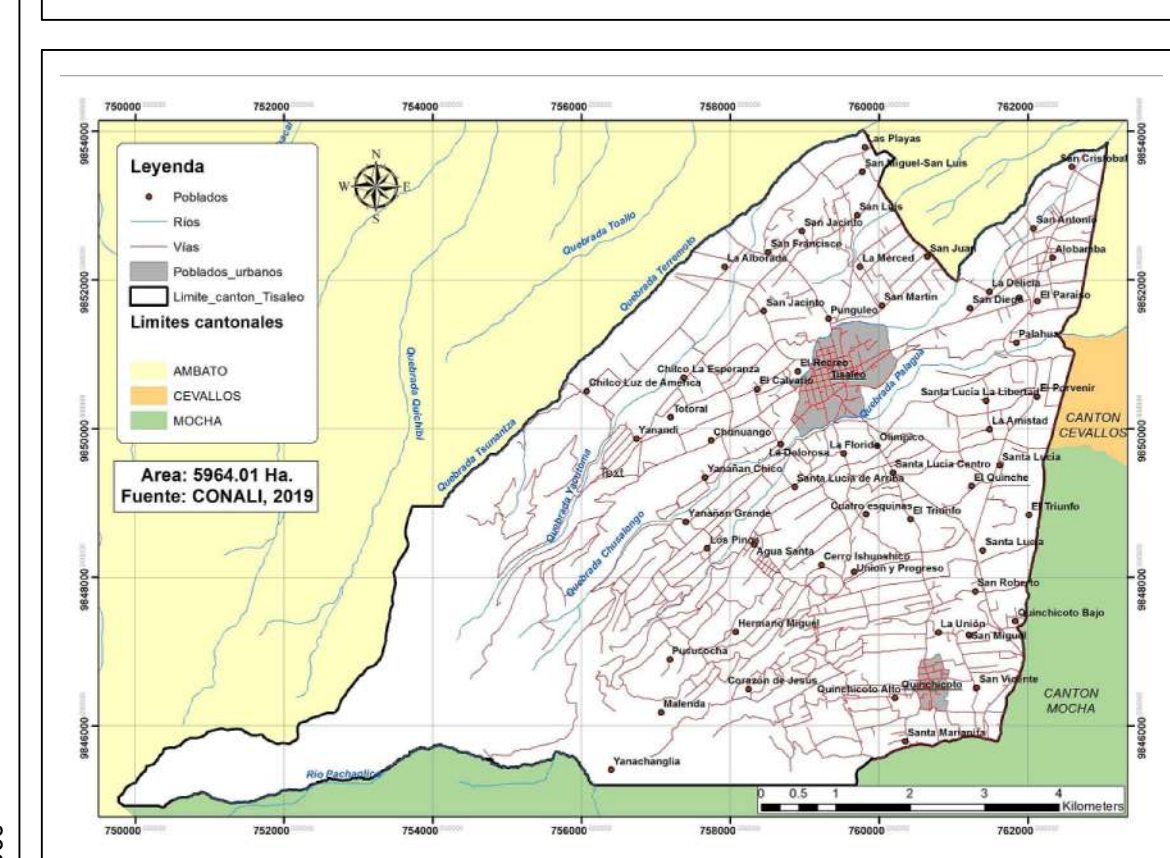
# SANTA LUCÍA ARRIBA

JESÚS DEL GRAN PODER

JESÚS



## UBICACIÓN DEL PROYECTO



## DATOS GEOGRÁFICOS

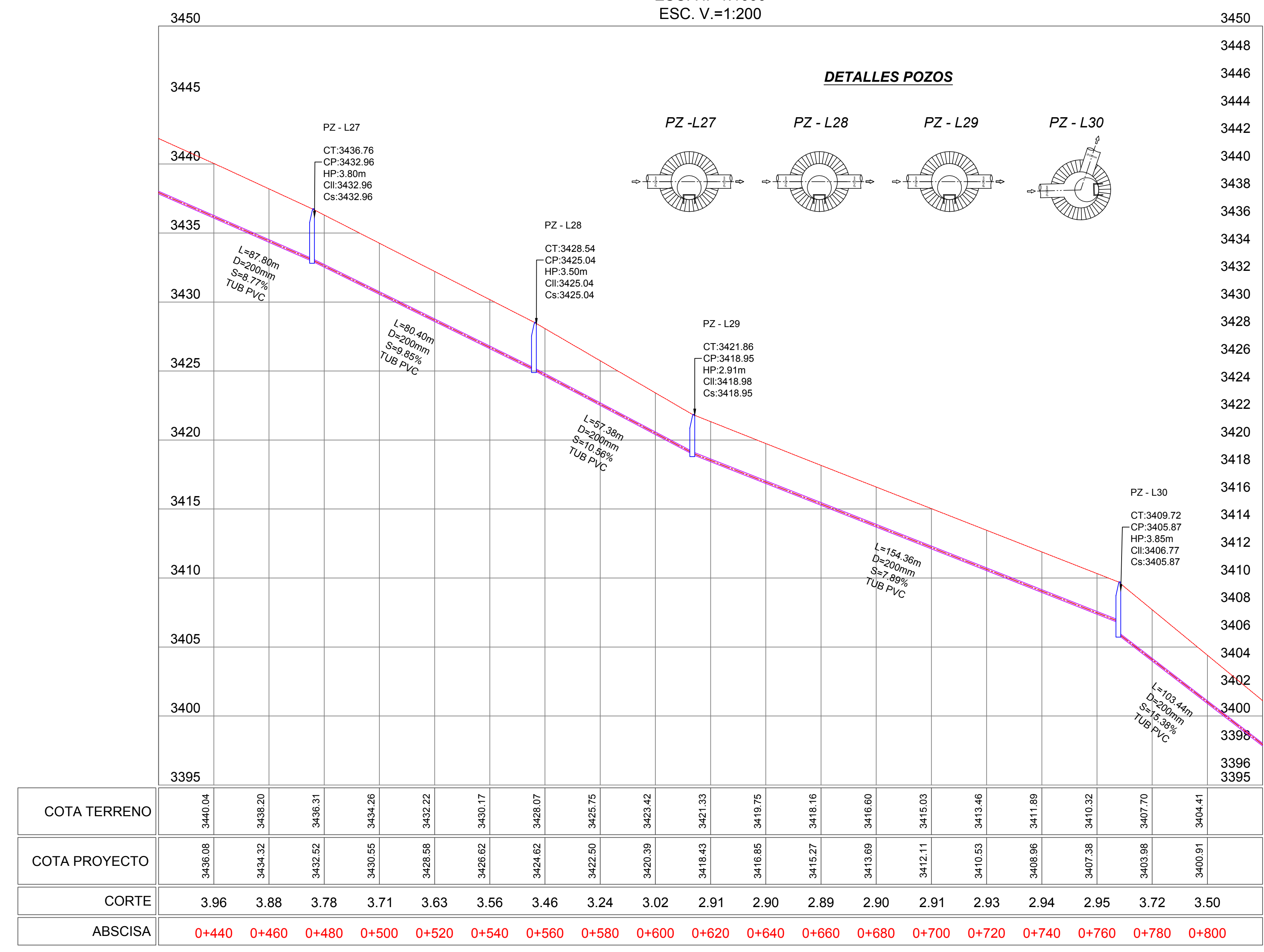
**DATUM:** WGS84 ZONA 17S  
**COORDENADAS UTM:** 759353.24 m E  
 9850780.17 m S  
**ALTURA REFERENCIAL:** 3249 m

## SIMBOLOGÍA

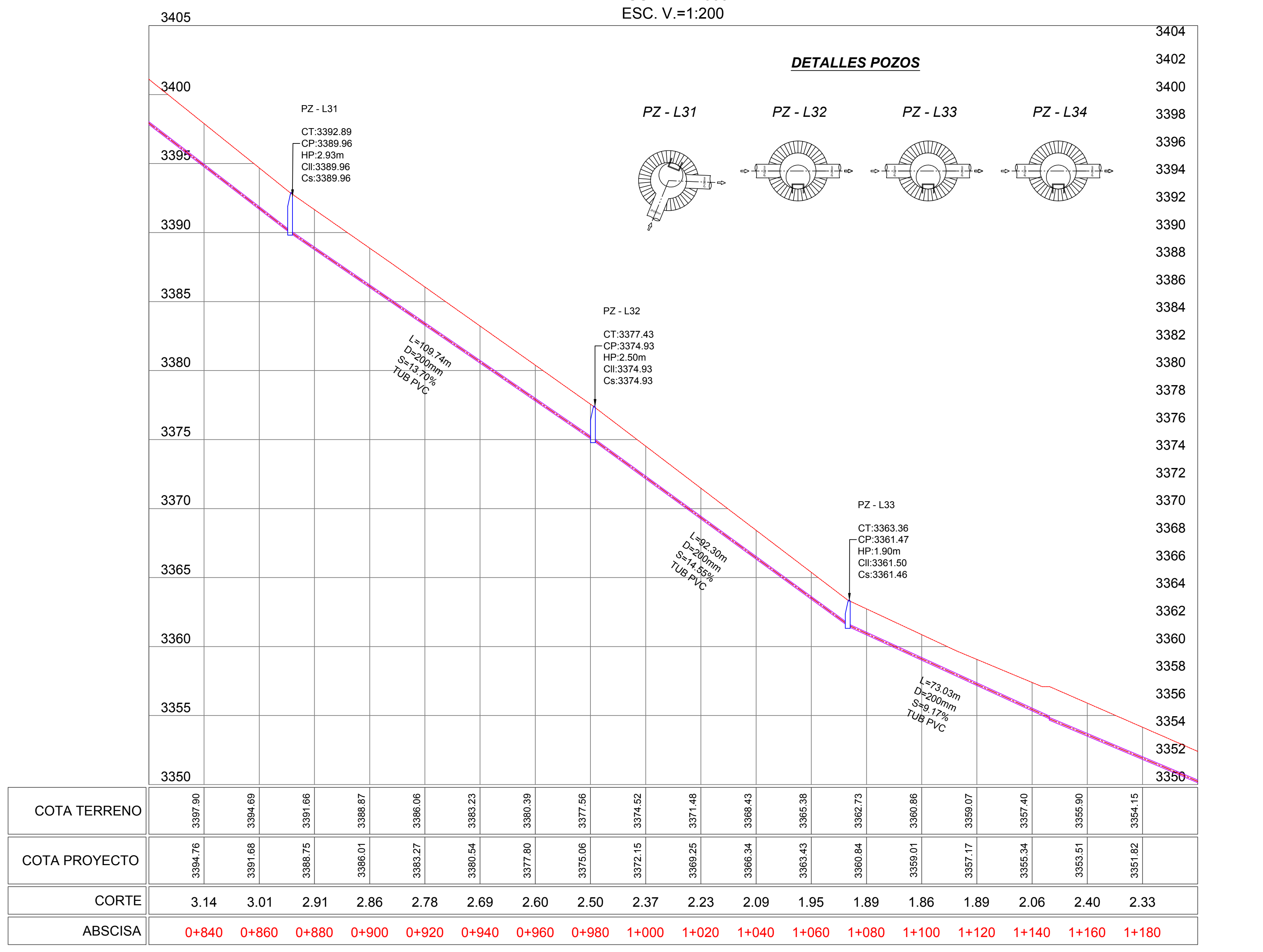
- TUBERÍA PVC D = 200mm
- POZO DE REVISIÓN
- PERFIL DEL TERRENO
- CALLES / VÍAS
- LÍMITES TERRITORIALES

- L LONGITUD DEL TRAMO
- D / Ø DIÁMETRO DE TUBERÍA
- S GRADIENTE HIDRÁULICA
- CT COTA TERRENO
- CP COTA PROYECTO
- HP COTA DE LLEGADA
- Cs COTA DE SALIDA
- HP ALTURA DE POZO

PERFIL LONGITUDINAL  
 ESC. H.=1:1000  
 ESC. V.=1:200



PERFIL LONGITUDINAL  
 ESC. H.=1:1000  
 ESC. V.=1:200



## RED DE ALCANTARILLADO SANITARIO SANTA LUCÍA

POZO	ESTE (m)	NORTE (m)	C. TERRENO (m)	C. LLEGADA (m)	C. SALIDA (m)
<b>SANTA LUCÍA ARRIBA - JESÚS DEL GRAN PODER</b>					
<b>TRAMO A</b>					
PZ-L1	757695.09	9848288.91	3454.61	3462.85	3463.11
PZ-L2	757615.30	9848288.21	3465.32	3462.85	3462.85
PZ-L3	757634.34	9848242.84	3462.70	3461.00	3461.00
PZ-L4	757646.75	9848237.34	3462.71	3460.84	3460.84
PZ-L5	757671.61	9848231.08	3461.89	3459.24	3459.24
PZ-L6	757663.49	9848238.89	3459.08	3457.33	3457.28
PZ-L7	757694.16	9848252.78	3456.50	3453.15	3452.85
PZ-L8	757717.69	9848275.36	3450.37	3448.67	3448.67
PZ-L9	757723.58	9848384.02	3452.32	3447.77	3447.72
PZ-L10	757730.34	9848450.69	3449.30	3446.94	3446.94
<b>TRAMO B</b>					
PZ-L11	757694.34	9848309.50	3465.73	3464.36	3464.53
PZ-L12	757698.30	9848316.63	3465.01	3464.36	3464.36
PZ-L13	757647.82	9848366.61	3462.77	3461.00	3461.00
PZ-L14	757672.33	9848394.24	3459.00	3457.30	3457.30
PZ-L15	757680.34	9848402.00	3457.88	3455.91	3455.91
PZ-L16	757701.57	9848402.29	3454.76	3452.99	3452.99
PZ-L17	757712.17	9848433.21	3453.04	3451.14	3451.14
PZ-L18	757730.34	9848450.69	3449.30	3446.94	3446.94
PZ-L19	757772.46	9848493.69	3445.62	3444.22	3444.22
PZ-L20	757772.25	9848514.58	3445.48	3443.96	3443.96
PZ-L21	757788.17	9848623.18	3444.76	3440.96	3440.96
PZ-L22	757821.56	9848693.93	3436.76	3432.96	3432.96
PZ-L23	757860.09	9848739.05	3429.54	3425.04	3425.04
PZ-L24	757920.88	9848779.42	3421.86	3418.98	3418.98
PZ-L25	758035.09	9848883.26	3409.72	3406.77	3406.87
PZ-L26	758096.11	9848945.72	3392.89	3389.96	3389.96
PZ-L27	758085.82	9849058.79	3377.43	3374.93	3374.93
PZ-L28	758151.55	9849123.59	3363.37	3361.51	3361.47
PZ-L29	758203.69	9849174.72	3357.10	3354.77	3354.67
PZ-L30	758271.56	9849234.91	3349.17	3347.02	3346.92
PZ-L31	758333.77	9849299.53	3342.56	3340.86	3340.76
PZ-L32	758408.63	9849373.46	3333.67	3332.07	3331.92
PZ-L33	758475.01	9849436.68	3327.29	3325.59	3325.49
PZ-L34	758561.50	9849492.64	3319.34	3317.46	3317.36
PZ-L35	758650.51	9849549.74	3312.23	3310.23	3310.11
PZ-L36	758696.19	9849579.46	3307.57	3305.64	3305.54
PZ-L37	758732.40	9849611.83	3303.15	3301.47	3301.32
PZ-L38	758756.18	9849662.05	3293.01	3290.61	3289.81
<b>TRAMO B-1</b>					
PZ-L39	758257.10	9849073.78	3336.43	3335.80	3335.80
PZ-L40	758228.25	9849128.13	3337.17	3335.17	3335.17
PZ-L41	758203.69	9849174.72	3337.10	3334.77	3334.67
<b>TRAMO C</b>					
PZ-L42	757397.39	9848424.79	3465.59	3464.54	3464.54
PZ-L43	757471.78	9848492.34	3479.91	3478.11	3478.11
PZ-L44	757456.56	9848562.26	3468.56	3466.92	3466.92
PZ-L45	757619.98	9848630.45	3459.36	3458.26	3458.26
PZ-L46	757635.62	9848664.05	3457.52	3456.62	3456.52
PZ-L47	757709.35	9848579.28	3454.54	3452.34	3452.34
PZ-L48	757772.25	9848514.58	3445.48	3443.95	3443.95

**G.A.D. MUNICIPAL DEL CANTON TISALEO**  
 "CATASTRO DE LOS SISTEMAS DE ALCANTARILLADO A TRAVÉS DE LA GEOREFERENCIACIÓN Y DIGITALIZACIÓN PARA MEJORAR LA CALIDAD DE INFORMACIÓN SANITARIA DE LA PARROQUIA URBANA TISALEO Y CASERIOS SAN LUIS, SAN FRANCISCO, SAN JUAN, SAN DIEGO, ALDABANA, SANTA LUCÍA-LIBERTAD, SANTA LUCÍA-CENTRO, SANTA LUCÍA ARRIBA, EL CALVARIO DEL CANTÓN TISALEO, PROVINCIA DE TUNGURAHUA"

CONTIENE: RED DE ALCANTARILLADO SANITARIO SANTA LUCÍA - TRAMO B BARRIO: JESUS DE GRAN PODER

PROVINCIA: TUNGURAHUA CANTÓN: TISALEO SECTOR: SANTA LUCÍA ARRIBA

FECHA: SEPTIEMBRE, 2022

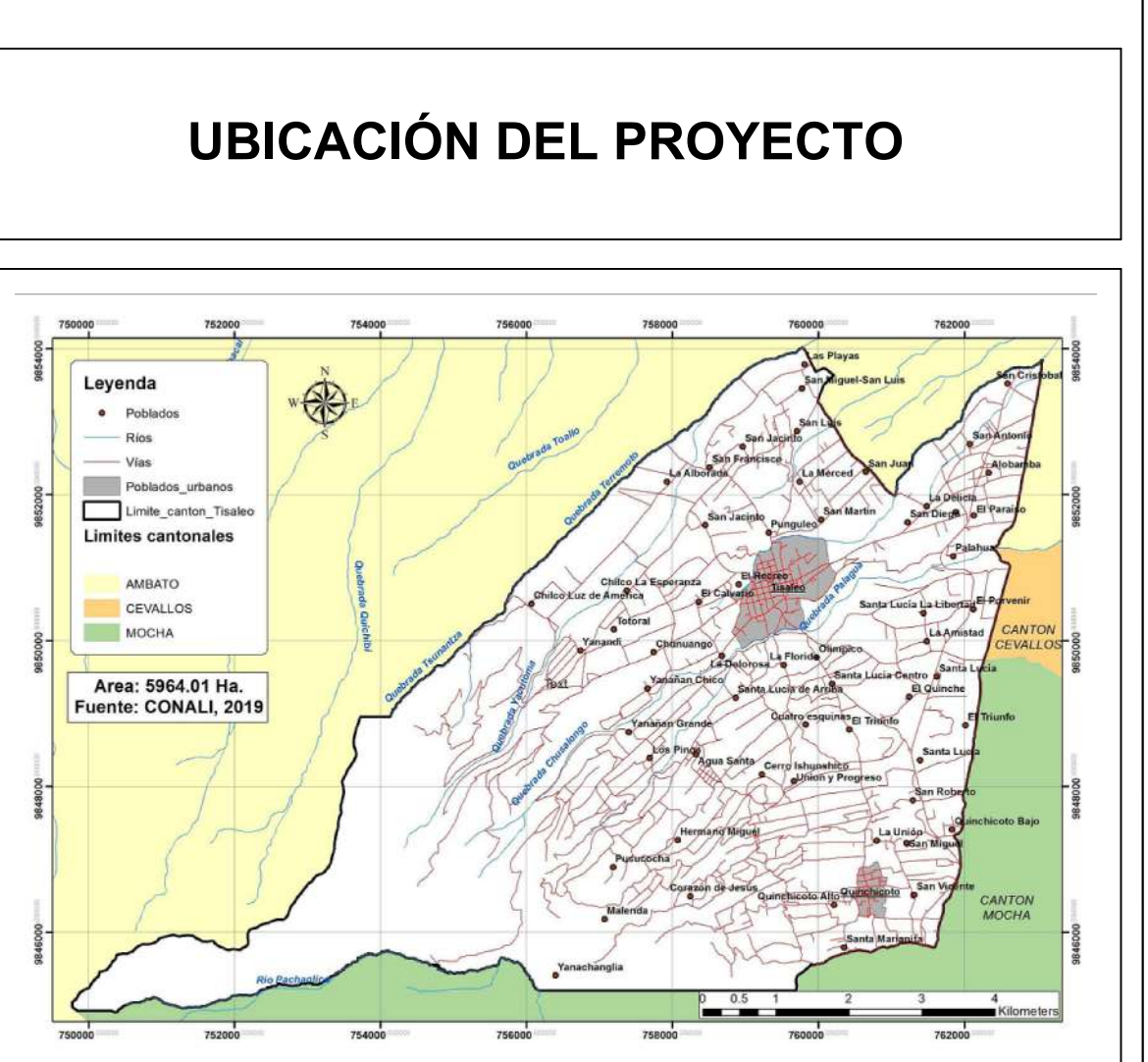
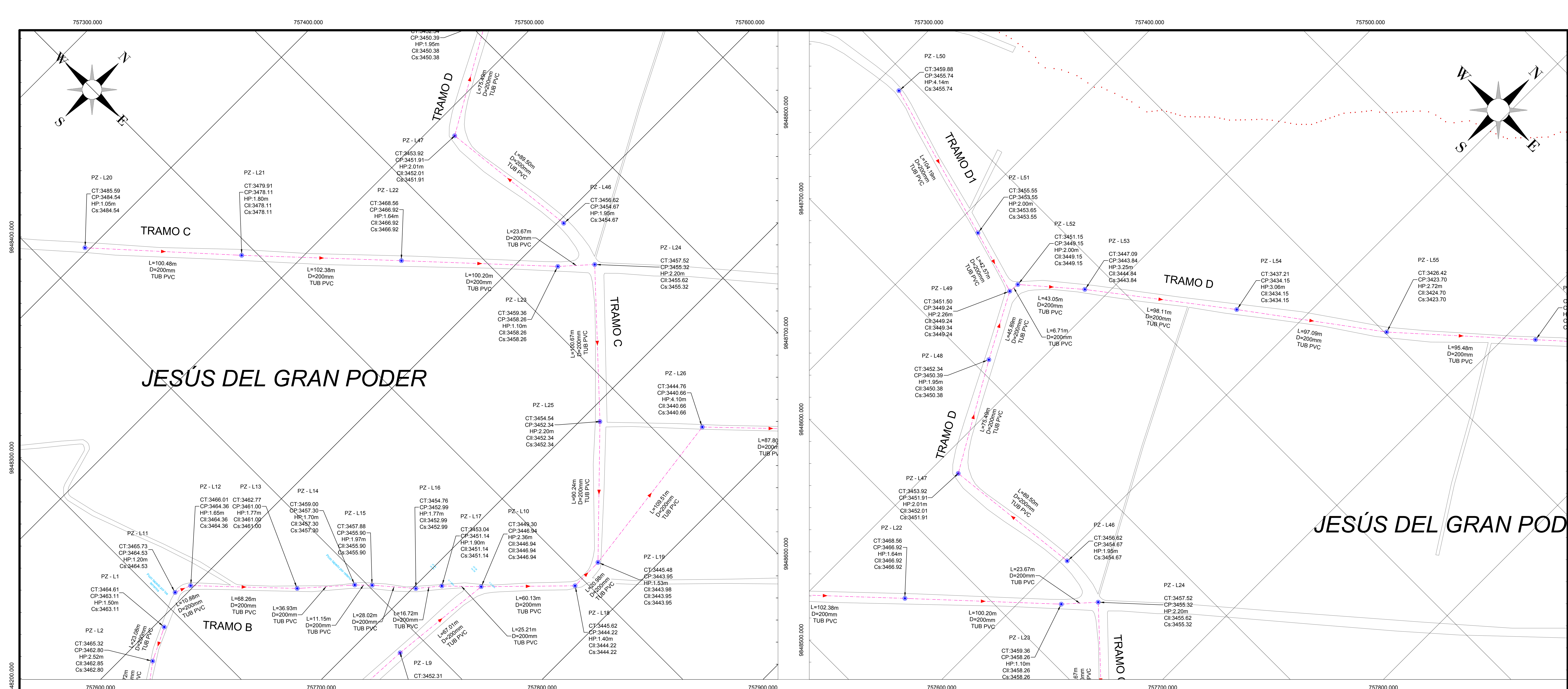
ELABORADO POR: Eglis Tamara Bonita Testa REVISADO POR: Ing. Gato Nuñez Tutor APROBADO POR: Ing. Gato Nuñez Tutor

ESCALA: 1:1000 LÁMINA: 02 TOTAL LÁMINAS: 40









**DATOS GEOGRÁFICOS**

**DATUM:** WGS84 ZONA 17S

**COORDENADAS UTM:**  
759353.24 m E  
9850780.17 m S

**ALTURA REFERENCIAL:**  
3249 m

**SIMBOLOGÍA**

TUBERÍA PVC D = 200mm

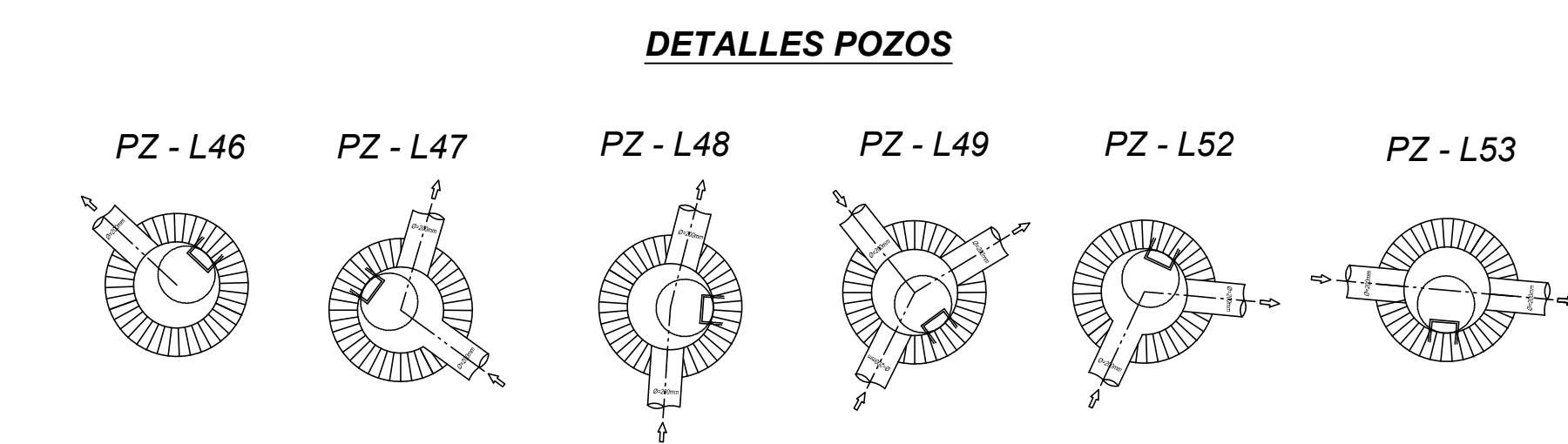
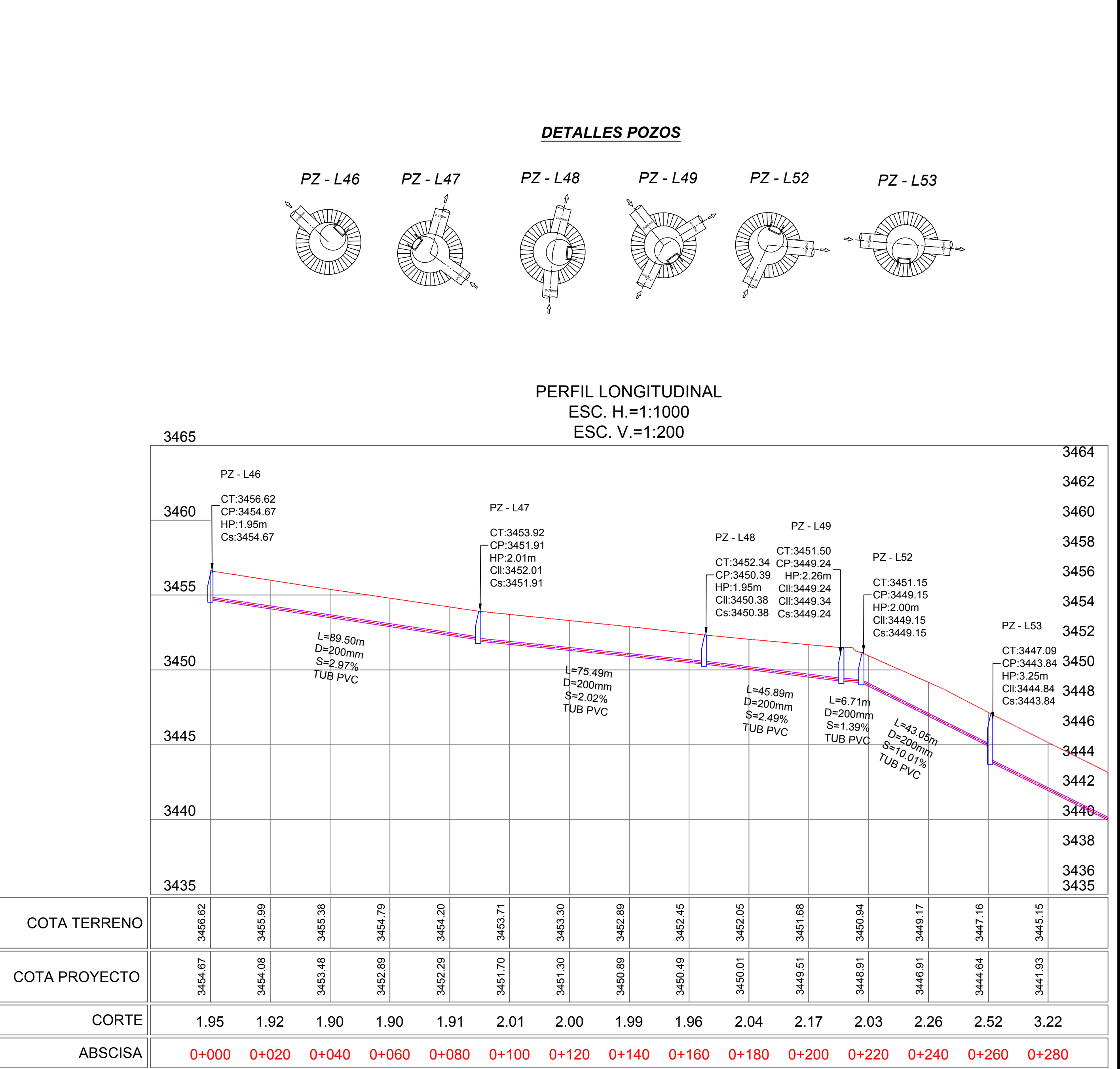
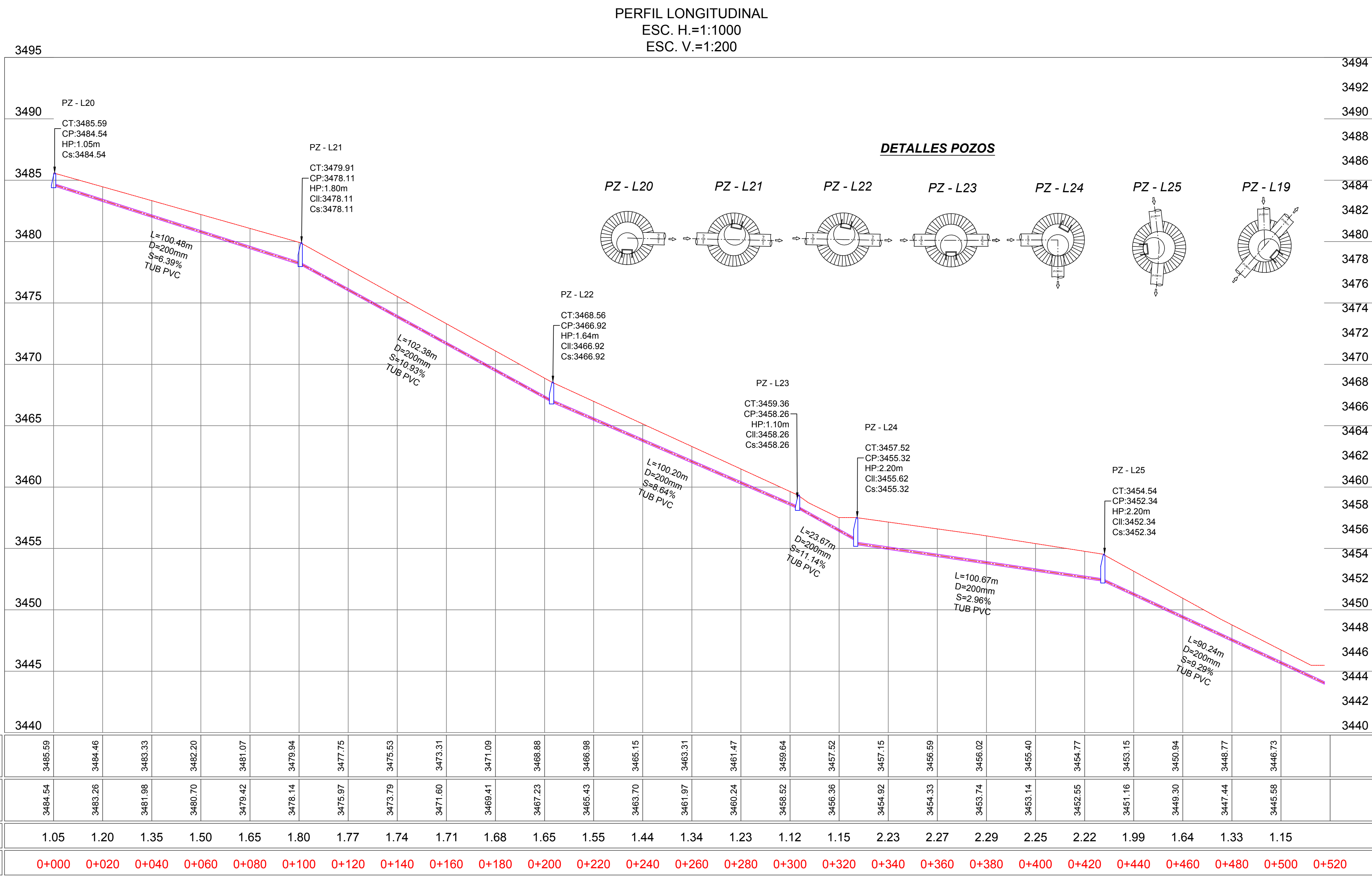
POZO DE REVISIÓN

PERFIL DEL TERRENO

CALLES / VÍAS

LÍMITES TERRITORIALES

L LONGITUD DEL TRAMO  
D / Ø DIÁMETRO DE TUBERÍA  
S GRADIENTE HIDRÁULICA  
CT COTA TERRENO  
CP COTA PROYECTO  
CI COTA DE LLEGADA  
Cs COTA DE SALIDA  
HP ALTURA DE POZO



**RED DE ALCANTARILLADO SANITARIO SANTA LUCIA**

**SANTA LUCIA ARRIBA - BARRIO DEL GRAN PODER**

POZO	ESTE (m)	NORTE (m)	C. TERRENO (m)	C. PROYECTO (m)	C. LLEGADA (m)	C. SALIDA (m)
PZ-L1	75700.00	984200.00	3485.59	3484.54	3485.59	3484.54
PZ-L2	75710.00	984200.00	3484.54	3484.54	3484.54	3484.54
PZ-L3	75720.00	984200.00	3483.26	3483.26	3483.26	3483.26
PZ-L4	75730.00	984200.00	3481.98	3483.33	3481.98	3483.33
PZ-L5	75740.00	984200.00	3480.70	3482.20	3480.70	3482.20
PZ-L6	75750.00	984200.00	3479.42	3481.07	3479.42	3481.07
PZ-L7	75760.00	984200.00	3478.14	3479.94	3478.14	3479.94
PZ-L8	75770.00	984200.00	3476.86	3477.75	3476.86	3477.75
PZ-L9	75780.00	984200.00	3475.58	3475.53	3475.58	3475.53
PZ-L10	75790.00	984200.00	3474.30	3473.31	3474.30	3473.31
PZ-L11	75800.00	984200.00	3473.02	3471.09	3473.02	3471.09
PZ-L12	75810.00	984200.00	3471.74	3468.88	3471.74	3468.88
PZ-L13	75820.00	984200.00	3470.46	3466.66	3470.46	3466.66
PZ-L14	75830.00	984200.00	3469.18	3464.44	3469.18	3464.44
PZ-L15	75840.00	984200.00	3467.90	3462.22	3467.90	3462.22
PZ-L16	75850.00	984200.00	3466.62	3460.00	3466.62	3460.00
PZ-L17	75860.00	984200.00	3465.34	3457.78	3465.34	3457.78
PZ-L18	75870.00	984200.00	3464.06	3455.56	3464.06	3455.56
PZ-L19	75880.00	984200.00	3462.78	3453.34	3462.78	3453.34
PZ-L20	75890.00	984200.00	3461.50	3451.12	3461.50	3451.12
PZ-L21	75900.00	984200.00	3460.22	3448.90	3460.22	3448.90
PZ-L22	75910.00	984200.00	3458.94	3446.68	3458.94	3446.68
PZ-L23	75920.00	984200.00	3457.66	3444.46	3457.66	3444.46
PZ-L24	75930.00	984200.00	3456.38	3442.24	3456.38	3442.24
PZ-L25	75940.00	984200.00	3455.10	3440.02	3455.10	3440.02
PZ-L26	75950.00	984200.00	3453.82	3437.80	3453.82	3437.80
PZ-L27	75960.00	984200.00	3452.54	3435.58	3452.54	3435.58
PZ-L28	75970.00	984200.00	3451.26	3433.36	3451.26	3433.36
PZ-L29	75980.00	984200.00	3450.00	3431.14	3450.00	3431.14
PZ-L30	75990.00	984200.00	3448.74	3428.92	3448.74	3428.92
PZ-L31	76000.00	984200.00	3447.48	3426.70	3447.48	3426.70
PZ-L32	76010.00	984200.00	3446.22	3424.48	3446.22	3424.48
PZ-L33	76020.00	984200.00	3444.96	3422.26	3444.96	3422.26
PZ-L34	76030.00	984200.00	3443.70	3420.04	3443.70	3420.04
PZ-L35	76040.00	984200.00	3442.44	3417.82	3442.44	3417.82
PZ-L36	76050.00	984200.00	3441.18	3415.60	3441.18	3415.60
PZ-L37	76060.00	984200.00	3440.00	3413.38	3440.00	3413.38
PZ-L38	76070.00	984200.00	3438.82	3411.16	3438.82	3411.16
PZ-L39	76080.00	984200.00	3437.64	3408.94	3437.64	3408.94
PZ-L40	76090.00	984200.00	3436.46	3406.72	3436.46	3406.72
PZ-L41	76100.00	984200.00	3435.28	3404.50	3435.28	3404.50
PZ-L42	76110.00	984200.00	3434.10	3402.28	3434.10	3402.28
PZ-L43	76120.00	984200.00	3432.92	3400.06	3432.92	3400.06
PZ-L44	76130.00	984200.00	3431.74	3397.84	3431.74	3397.84
PZ-L45	76140.00	984200.00	3430.56	3395.62	3430.56	3395.62
PZ-L46	76150.00	984200.00	3429.38	3393.40	3429.38	3393.40
PZ-L47	76160.00	984200.00	3428.20	3391.18	3428.20	3391.18
PZ-L48	76170.00	984200.00	3427.02	3388.96	3427.02	3388.96
PZ-L49	76180.00	984200.00	3425.84	3386.74	3425.84	3386.74
PZ-L50	76190.00	984200.00	3424.66	3384.52	3424.66	3384.52
PZ-L51	76200.00	984200.00	3423.48	3382.30	3423.48	3382.30
PZ-L52	76210.00	984200.00	3422.30	3380.08	3422.30	3380.08
PZ-L53	76220.00	984200.00	3421.12	3377.86	3421.12	3377.86

**G.A.D. MUNICIPAL DEL CANTON TISALEO**

"CATASTRO DE LOS SISTEMAS DE ALCANTARILLADO A TRAVÉS DE LA GEOINFORMACIÓN Y DIGITALIZACIÓN PARA MEJORAR LA CALIDAD DE INFORMACIÓN SANITARIA DE LA PARROQUIA URBANA TISALEO Y CASERIOS SAN LUIS, SAN FRANCISCO, SAN JUAN, SAN DIEGO, ALVARADO, SANTA LUCÍA LIBERTAD, SANTA LUCÍA-CENTRO, SANTA LUCIA ARRIBA, EL CALVARIO DEL CANTÓN TISALEO, PROVINCIA DE TUNGURAHUA"

CONTIENE:  
RED DE ALCANTARILLADO SANITARIO SANTA LUCIA - TRAMO C - D  
BARRIO JESUS DE GRAN PODER

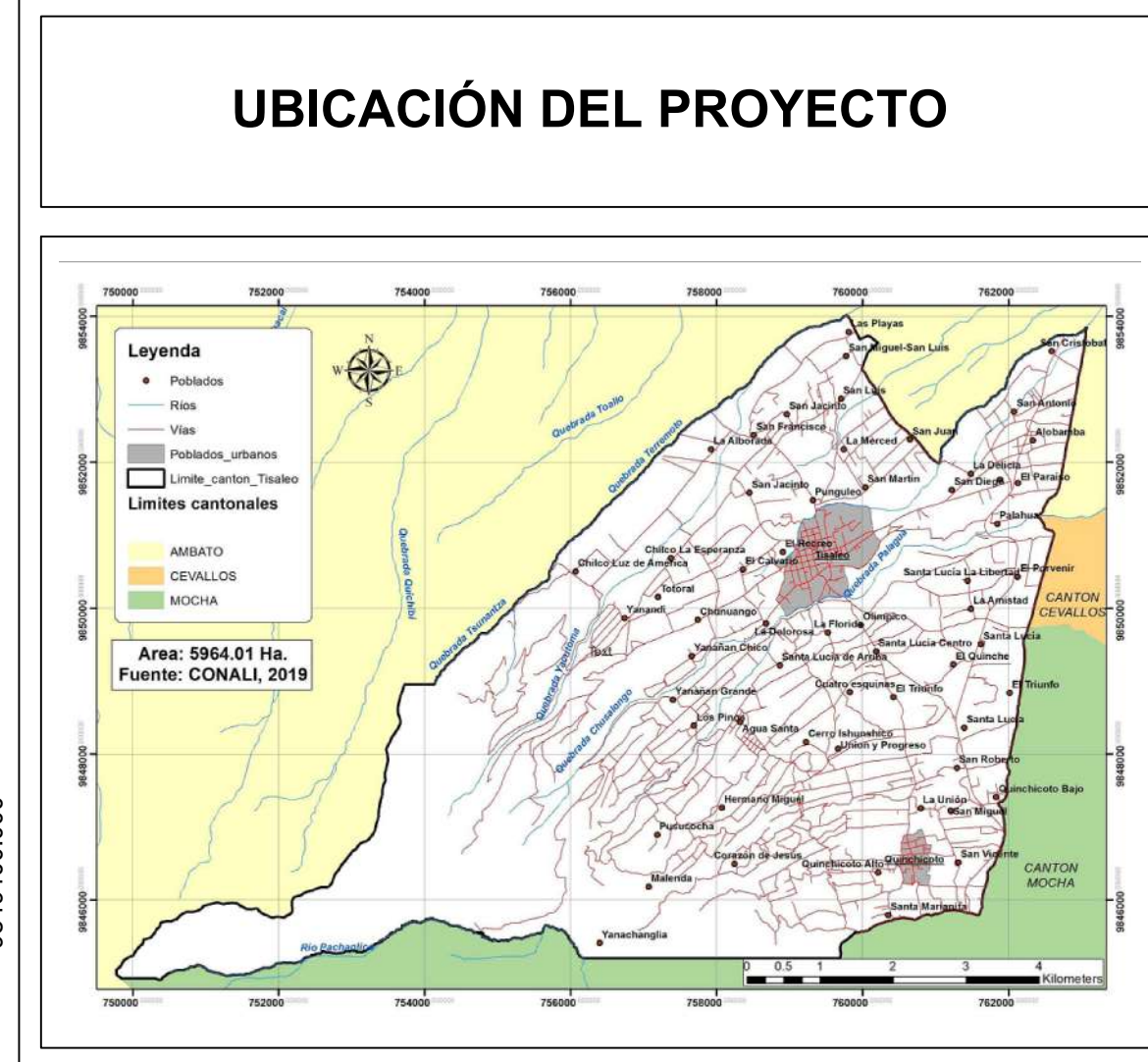
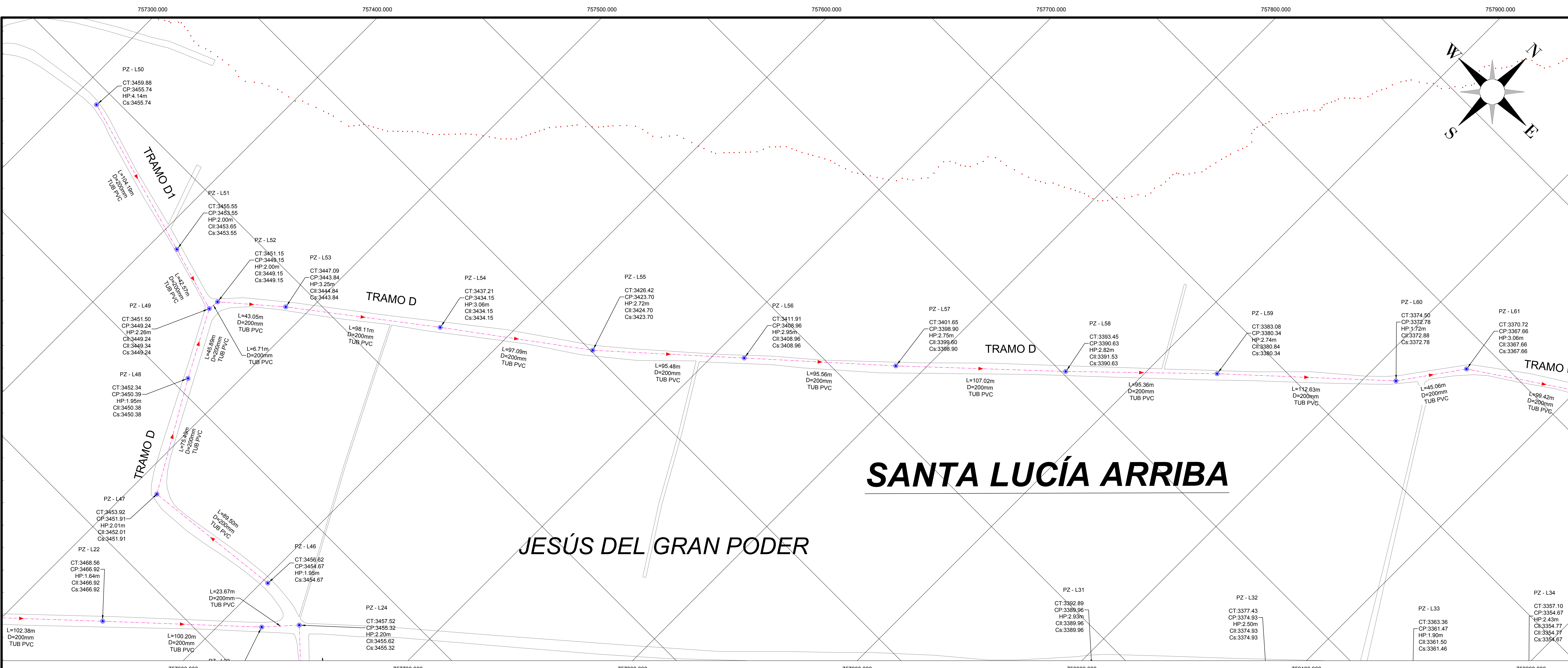
PROVINCIA: TUNGURAHUA CANTÓN: TISALEO SECTOR: SANTA LUCIA ARRIBA

FECHA: 09 SEPTIEMBRE 2022 ESCALA: 1:1000

ELABORADO POR: Eglis Tamia Bonita Testa REVISADO POR: Ing. Gato Nuñez Tutor APROBADO POR: Ing. Gato Nuñez Tutor

TOTAL LÁMINAS: 40 LÁMINA: 04





**UBICACIÓN DEL PROYECTO**

**DATUM:** WGS84 ZONA 17S

**COORDENADAS UTM:**  
759353.24 m E  
9850780.17 m S

**ALTURA REFERENCIAL:**  
3249 m

**SIMBOLOGÍA**

TUBERÍA PVC D = 200mm

POZO DE REVISIÓN

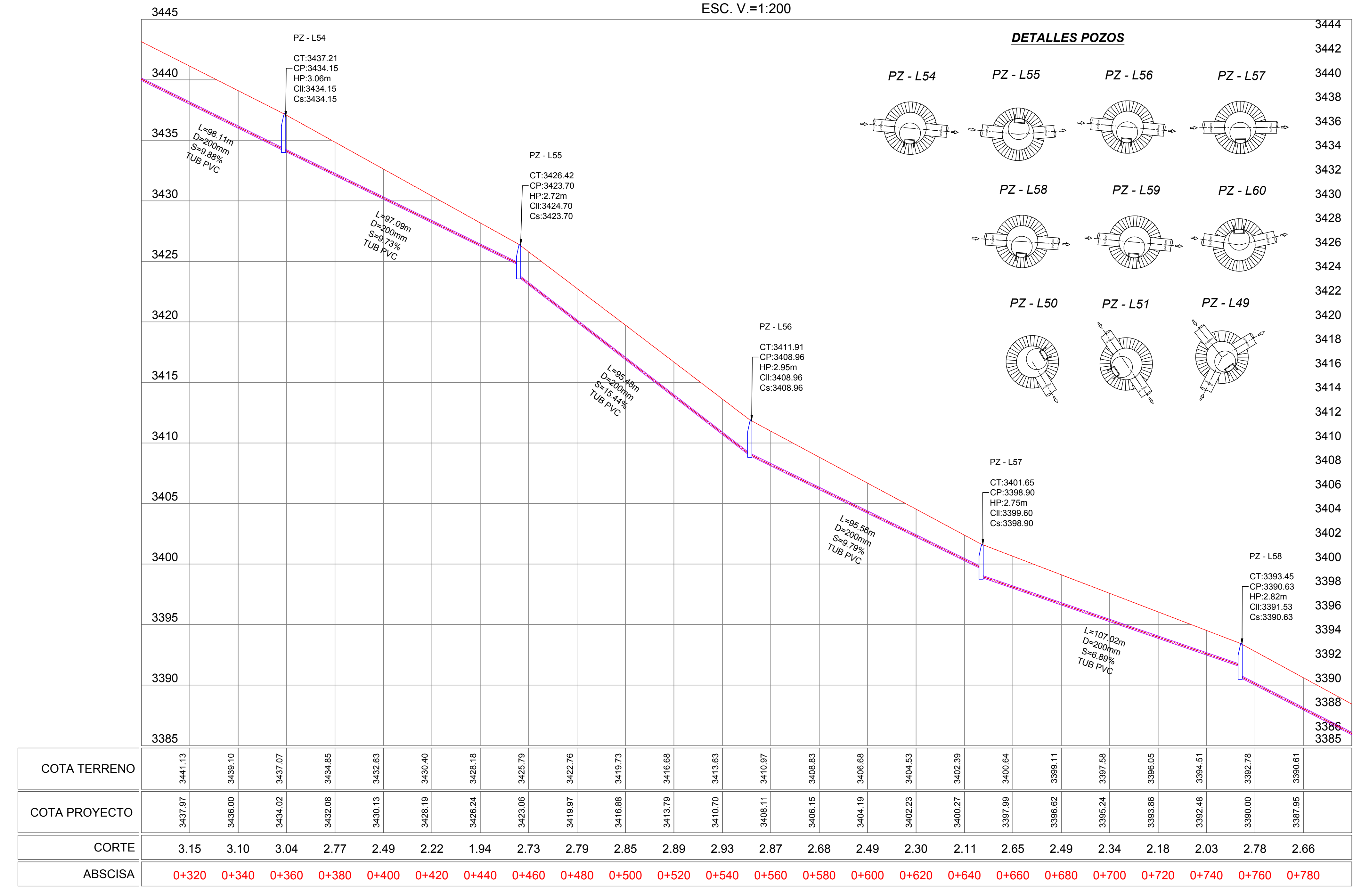
PERFIL DEL TERRENO

CALLES / VÍAS

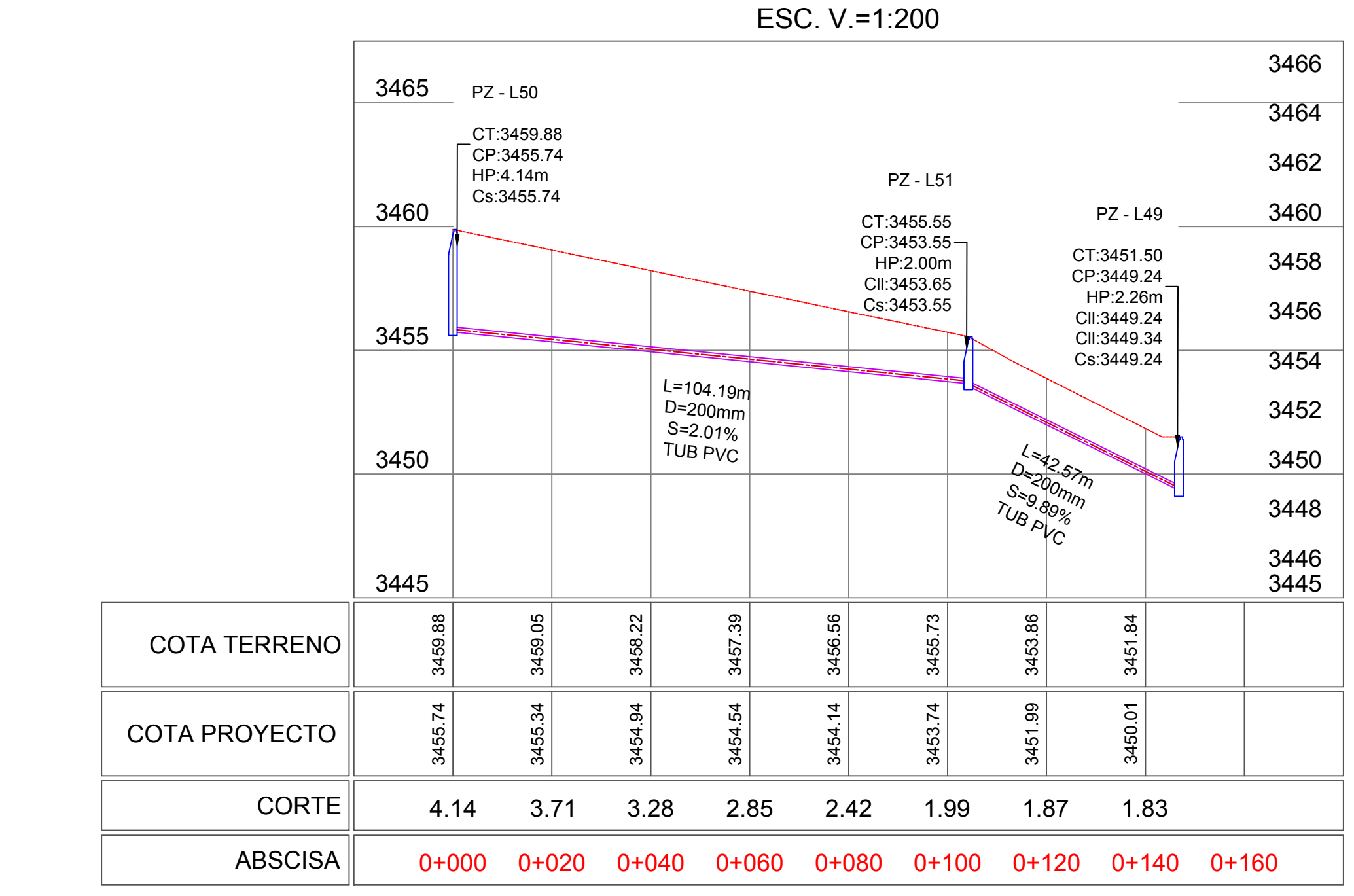
LÍMITES TERRITORIALES

L LONGITUD DEL TRAMO  
D / Ø DIÁMETRO DE TUBERÍA  
S GRADIENTE HIDRÁULICA  
CT COTAS TERRENO  
CP COTA PROYECTO  
CI COTA DE LLEGADA  
Cs COTA DE SALIDA  
HP ALTURA DE POZO

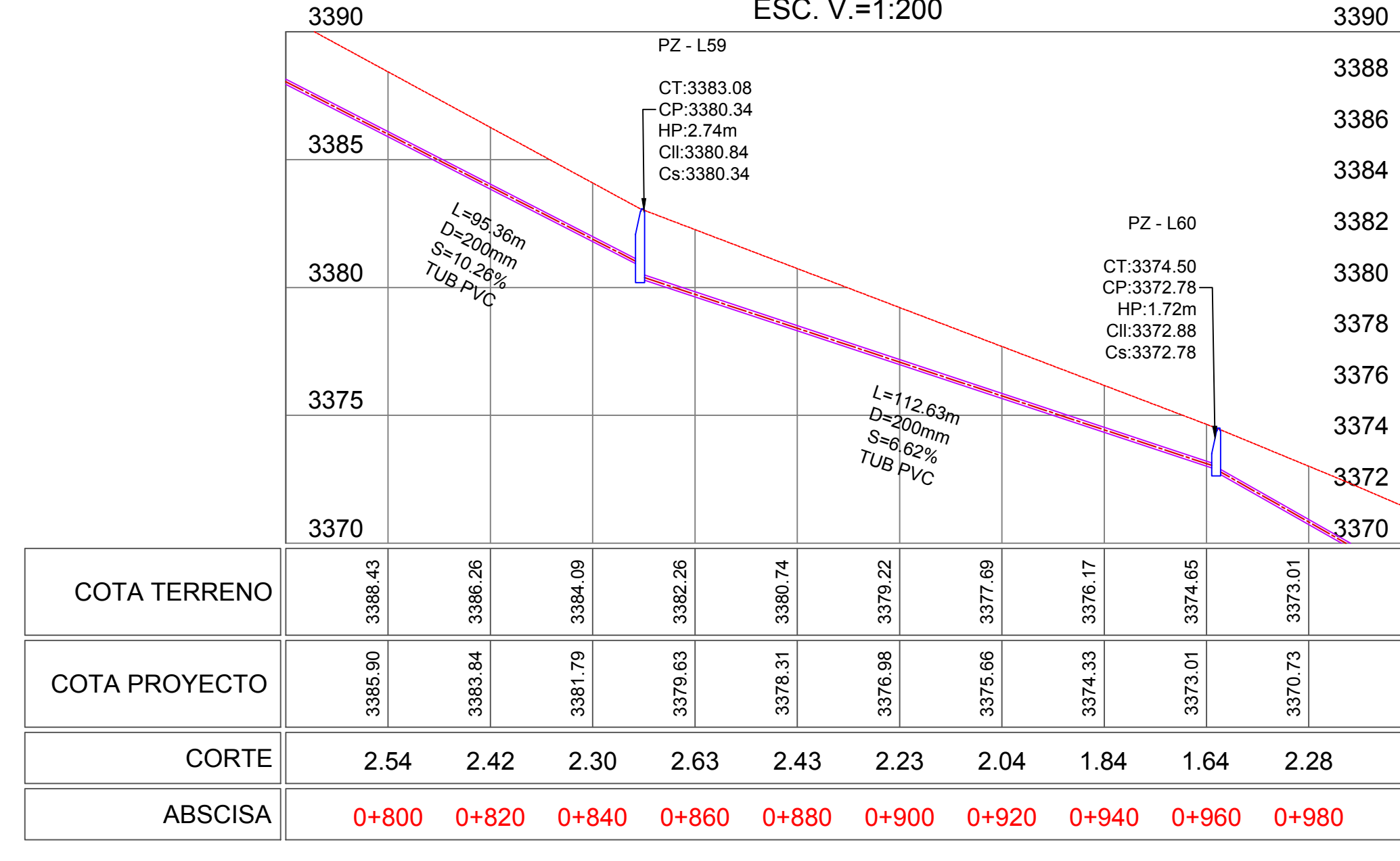
PERFIL LONGITUDINAL  
ESC. H.=1:1000  
ESC. V.=1:200



PERFIL LONGITUDINAL  
ESC. H.=1:1000  
ESC. V.=1:200



PERFIL LONGITUDINAL  
ESC. H.=1:1000  
ESC. V.=1:200



REO DE ALCANTARILLADO SANITARIO SANTA LUCÍA ARRIBA - JESÚS DEL GRAN PODER

POZO	ESTE (m)	NORTE (m)	TIPO DE TUBERÍA (C)	LLEGADA (m)	C. SALIDA
PZ-L1	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L2	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L3	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L4	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L5	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L6	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L7	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L8	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L9	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L10	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L11	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L12	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L13	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L14	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L15	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L16	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L17	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L18	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L19	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L20	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L21	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L22	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L23	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L24	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L25	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L26	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L27	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L28	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L29	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L30	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L31	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L32	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L33	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L34	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L35	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L36	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L37	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L38	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L39	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L40	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L41	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L42	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L43	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L44	757653.09	984628.81	3464.81	3464.81	3463.11
PZ-L45	757653.09	984628.81	3464.81	3464.81	3463.11

**G.A.D. MUNICIPAL DEL CANTÓN TISALEO**

CATASTRO DE LOS SISTEMAS DE ALCANTARILLADO A TRAVÉS DE LA GEOREFERENCIACIÓN Y DIGITALIZACIÓN PARA MEJORAR LA CALIDAD DE INFORMACIÓN SANITARIA DE LA PARROQUIA URBANA TISALEO Y CASERIOS SAN LUIS, SAN FRANCISCO, SAN JUAN, SAN DIEGO, ALDAMBA, SANTA LUCÍA-LIBERTAD, SANTA LUCÍA-CENTRO, SANTA LUCÍA ARRIBA, EL CALVARIO DEL CANTÓN TISALEO, PROVINCIA DE TUNGURAHUA\*

CONTIENE: REO DE ALCANTARILLADO SANITARIO SANTA LUCÍA - TRAMO D-1 BARRIO: JESUS DE GRAN PODER

PROVINCIA: TUNGURAHUA CANTÓN: TISALEO SECTOR: SANTA LUCÍA ARRIBA

FECHA: 15 DE SEPTIEMBRE 2022 ESCALA: 1:1000

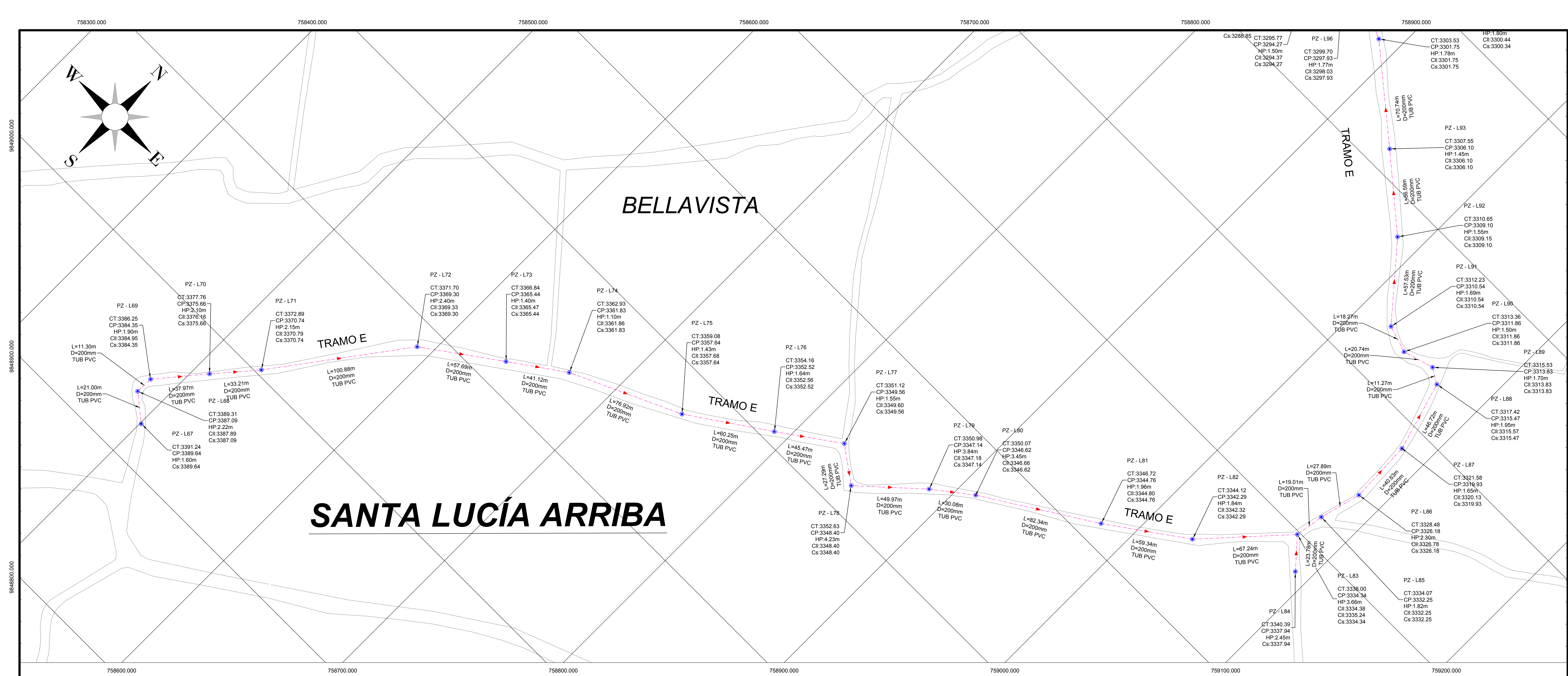
ELABORADO POR: REVISADO POR: APROBADO POR: LÁMINA: 05 TOTAL LÁMINAS: 40

Egla Tambo Bonita Testa Ing. Gato Nuñez Tutor Ing. Gato Nuñez Tutor

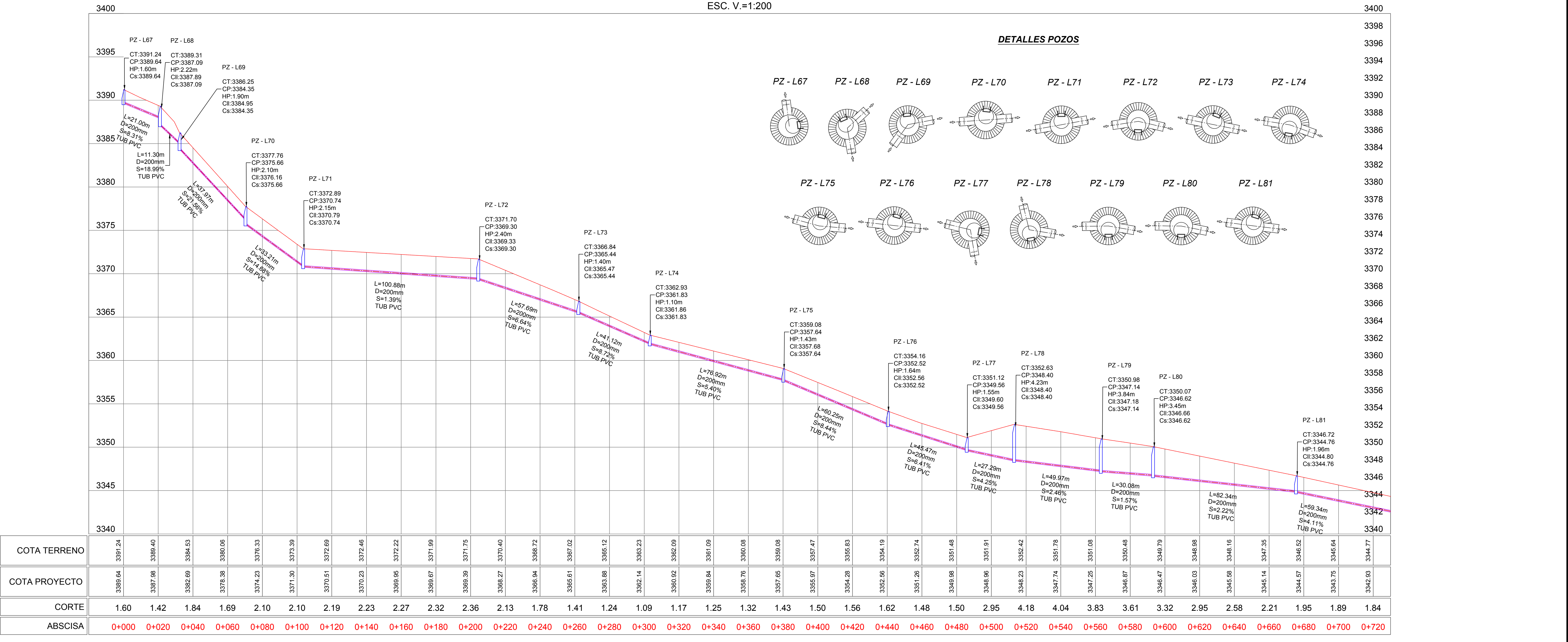




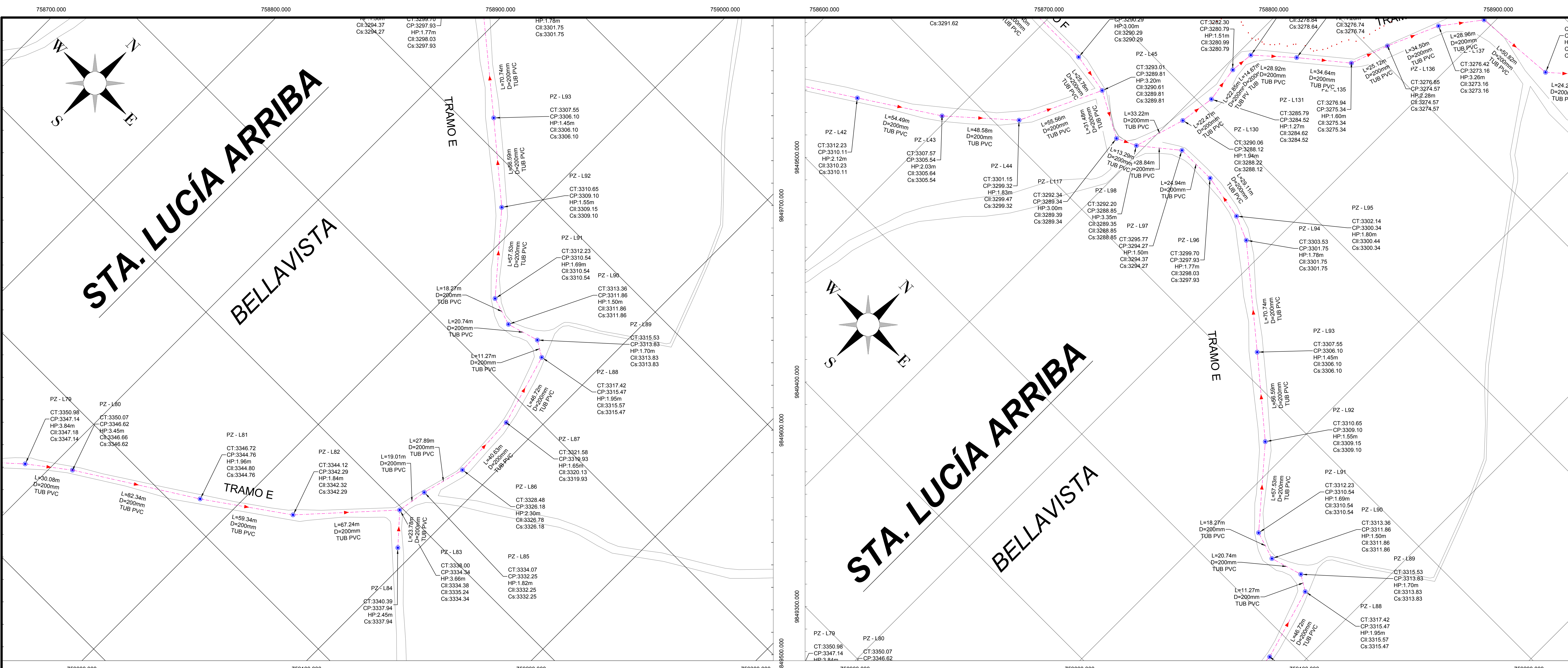




PERFIL LONGITUDINAL  
ESC. H.=1:1000  
ESC. V.=1:200







### UBICACIÓN DEL PROYECTO

### DATOS GEOGRÁFICOS

**DATUM:** WGS84 ZONA 17S

**COORDENADAS UTM:**  
759353.24 m E  
9850780.17 m S

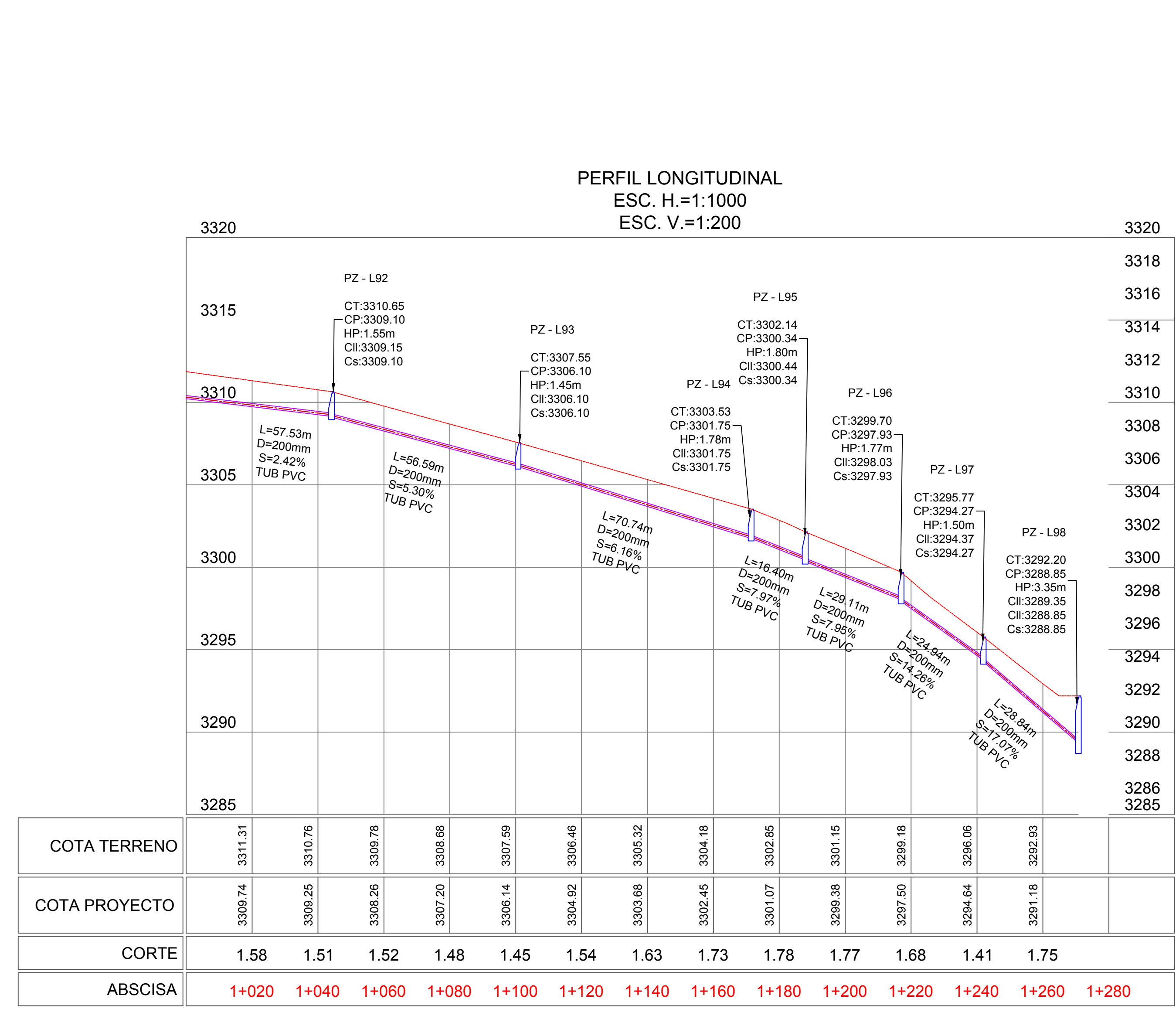
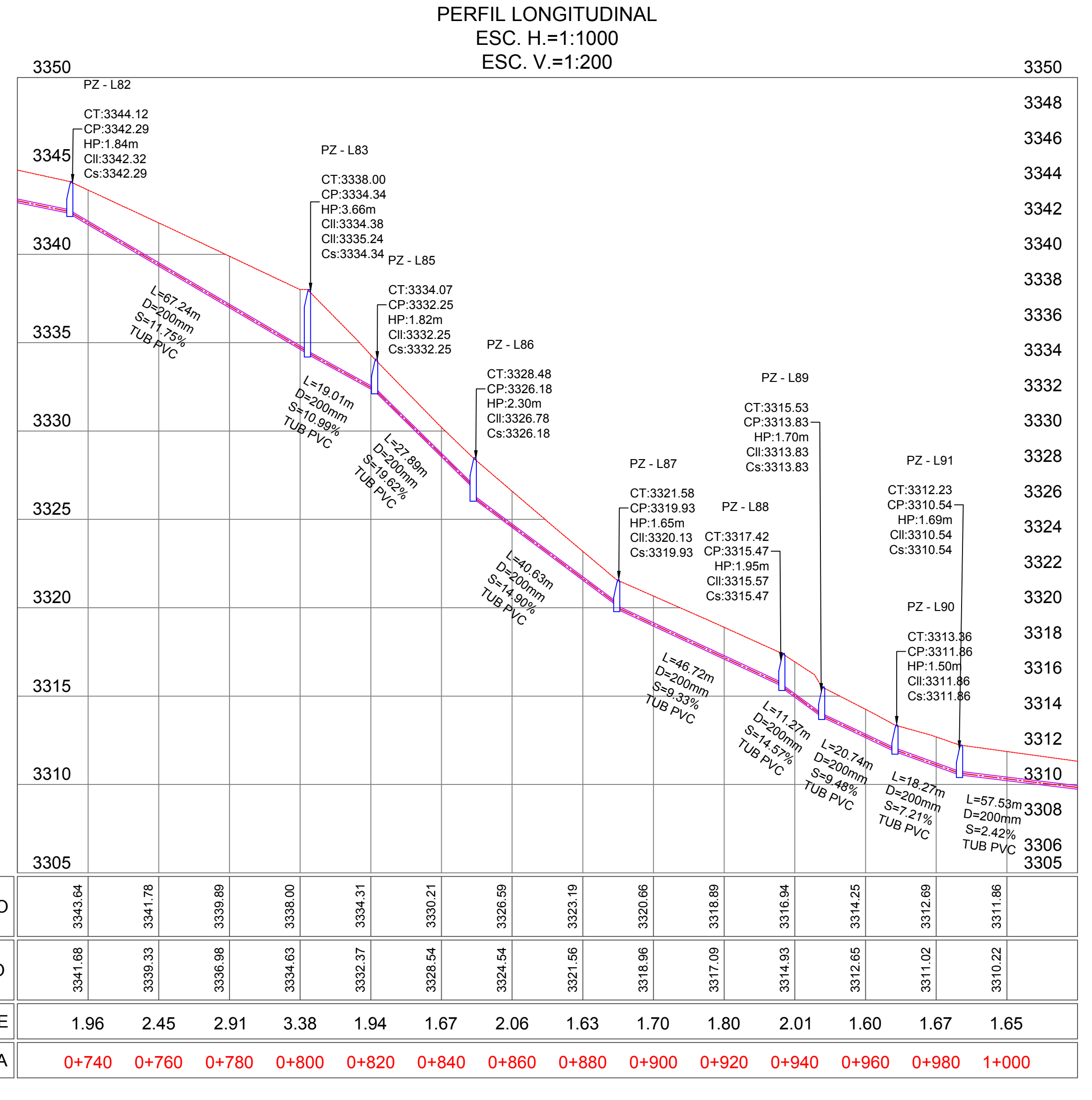
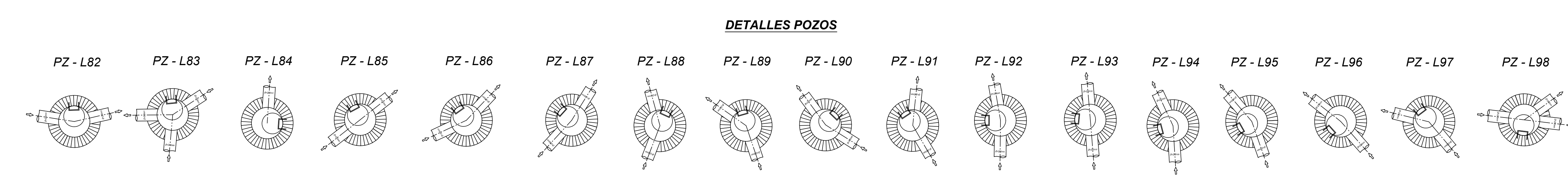
**ALTURA REFERENCIAL:**  
3249 m

### SIMBOLOGÍA

- TUBERÍA PVC D = 200mm
- POZO DE REVISIÓN
- PERFIL DEL TERRENO
- CALLES / VÍAS
- LÍMITES TERRITORIALES

### LEYENDA

L	LONGITUD DEL TRAMO
D / Ø	DIÁMETRO DE TUBERÍA
S	GRADIENTE HIDRÁULICA
CT	COTA TERRENO
CP	COTA PROYECTO
CI	COTA DE LLEGADA
Cs	COTA DE SALIDA
HP	ALTURA DE POZO



### RED DE ALCANTARILLADO SANITARIO SANTA LUCÍA

POZO	ESTE (m)	NORTE (m)	C. TERRENO (m)	C. TERRENO (m)	C. LLEGADA (m)	C. SALIDA (m)
PZ-L67	765500.79	9848924.69	3391.24		3389.64	
PZ-L68	766484.40	9849337.82	3388.31		3387.89	3381.09
PZ-L69	766484.82	9849849.11	3389.25		3384.95	3384.35
PZ-L70	765909.12	9848978.29	3377.76		3376.16	3376.66
PZ-L71	765530.74	9849003.49	3372.89		3370.79	3370.74
PZ-L72	765909.63	9849084.52	3371.70		3369.33	3369.30
PZ-L73	766637.74	9849118.11	3366.84		3365.47	3365.44
PZ-L74	766671.38	9849141.75	3362.93		3361.86	3361.83
PZ-L75	766741.22	9849173.98	3359.08		3357.69	3357.65
PZ-L76	766791.02	9849207.89	3354.16		3352.96	3352.52
PZ-L77	766828.12	9849234.19	3351.12		3349.61	3349.57
PZ-L78	766850.26	9849218.24	3352.63		3349.40	3349.40
PZ-L79	766967.15	9849251.94	3350.98		3347.18	3347.14
PZ-L80	766910.99	9849270.28	3350.07		3346.66	3346.62
PZ-L81	766960.62	9849314.24	3346.72		3344.80	3344.76
PZ-L82	766929.68	9849346.49	3344.12		3342.32	3342.29
PZ-L83	766974.41	9849398.15	3338.00		3334.38	3334.34
PZ-L84	766909.35	9849380.51	3340.39		3337.94	3337.94
PZ-L85	766907.47	9849416.62	3334.07		3332.25	3332.25
PZ-L86	766904.61	9849443.90	3329.48		3326.78	3326.78
PZ-L87	766902.88	9849484.50	3321.58		3320.13	3319.93
PZ-L88	766909.67	9849529.32	3317.42		3315.57	3315.47
PZ-L89	766909.69	9849535.09	3315.53		3313.83	3313.83
PZ-L90	766940.10	9849529.22	3313.38		3311.86	3311.86
PZ-L91	766922.70	9849534.77	3312.23		3310.54	3310.54
PZ-L92	766885.09	9849578.30	3310.65		3309.15	3309.10
PZ-L93	766941.65	9849614.68	3307.55		3306.10	3306.10
PZ-L94	766886.97	9849659.47	3303.53		3301.75	3301.75
PZ-L95	766871.88	9849665.88	3302.14		3300.44	3300.34
PZ-L96	766843.24	9849671.04	3299.70		3298.03	3297.93
PZ-L97	766818.30	9849670.90	3295.77		3294.37	3294.27
PZ-L98	766795.90	9849652.70	3292.20		3289.35	3288.85

### G.A.D. MUNICIPAL DEL CANTÓN TISALEO

"CATÁSTRO DE LOS SISTEMAS DE ALCANTARILLADO A TRAVÉS DE LA GEOREFERENCIACIÓN Y DIGITALIZACIÓN PARA MEJORAR LA CALIDAD DE INFORMACIÓN SANITARIA DE LA PARROQUIA URBANA TISALEO Y CASERIOS SAN LUIS, SAN FRANCISCO, SAN JUAN, SAN DIEGO, ALDAMBA, SANTA LUCÍA LIBERTAD, SANTA LUCÍA-CENTRO, SANTA LUCÍA ARRIBA, EL CALVARIO DEL CANTÓN TISALEO, PROVINCIA DE TUNGURAHUA"

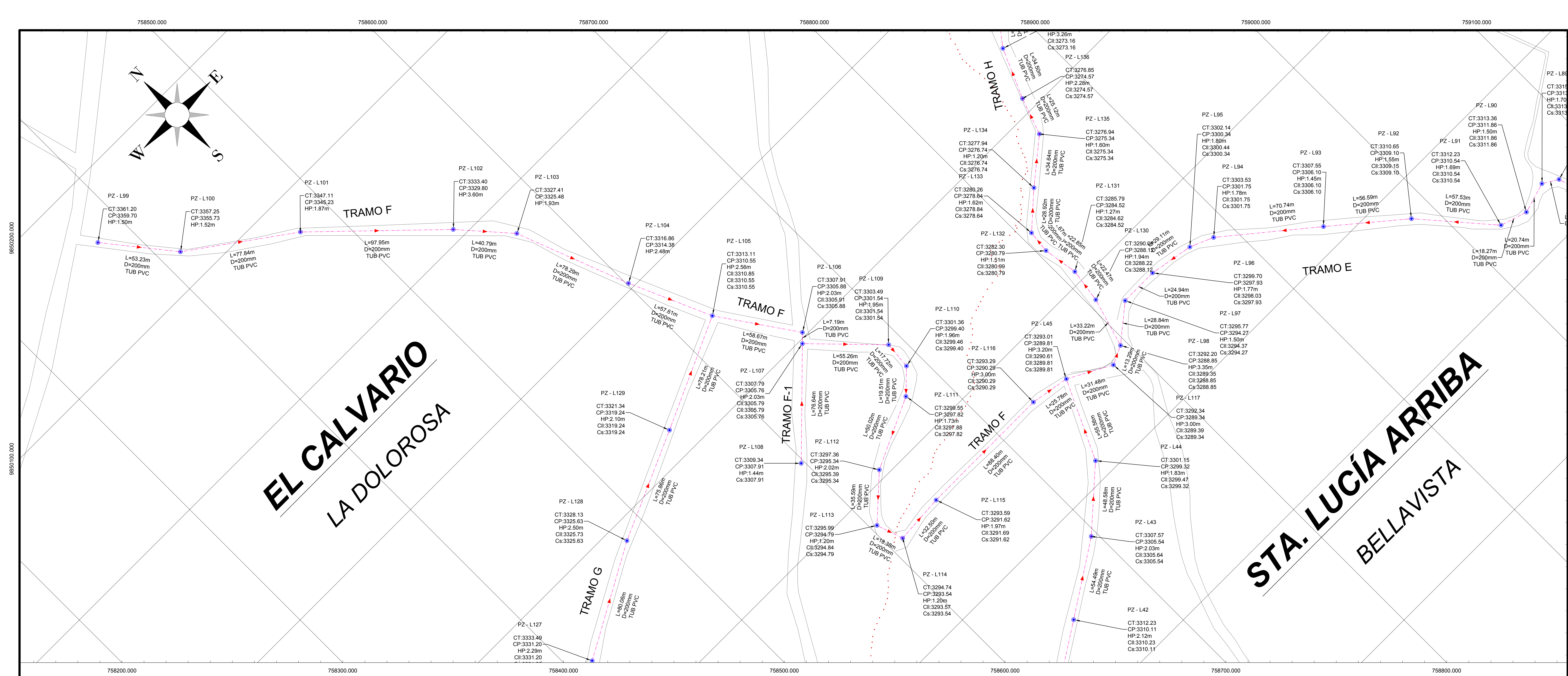
CONTIENE: RED DE ALCANTARILLADO SANITARIO SANTA LUCÍA - TRAMO E  
BARRIO: BELLAVISTA

PROVINCIA: TUNGURAHUA CANTÓN: TISALEO SECTOR: SANTA LUCÍA ARRIBA

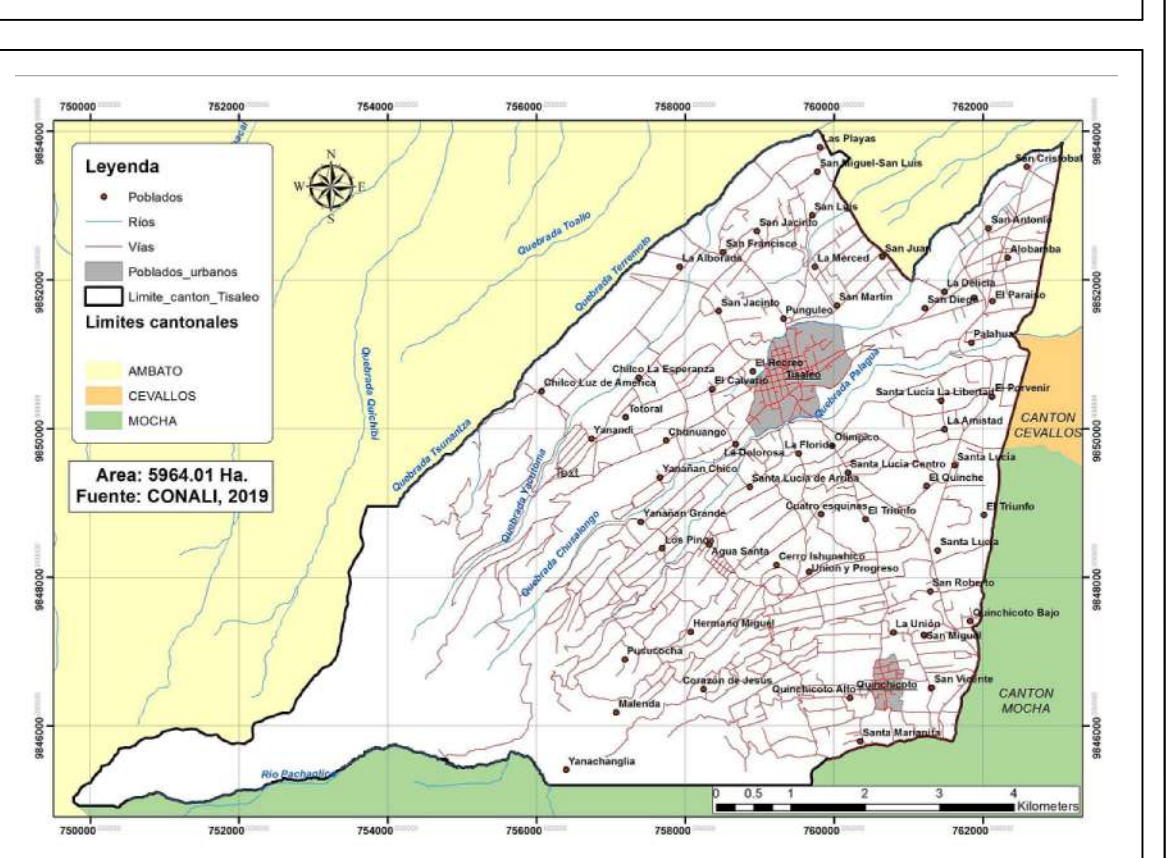
FECHA: SEPTIEMBRE, 2022 ESCALA: 1:1000

ELABORADO POR: REVISADO POR: APROBADO POR: LÁMINA: LÁMINA - 08  
Tutor Ing. Gato Nuñez TOTAL LÁMINAS: 40





### UBICACIÓN DEL PROYECTO



### DATOS GEOGRÁFICOS

**DATUM:** WGS84 ZONA 17S  
**COORDENADAS UTM:** 759353.24 m E  
 9850780.17 m S  
**ALTURA REFERENCIAL:** 3249 m

### SIMBOLOGÍA

- TUBERÍA PVC D = 200mm
- POZO DE REVISIÓN
- PERFIL DEL TERRENO
- CALLES / VÍAS
- LÍMITES TERRITORIALES

L	LONGITUD DEL TRAMO
D / Ø	DIÁMETRO DE TUBERÍA
S	GRADIENTE HIDRÁULICA
CT	COTA TERRENO
CP	COTA PROYECTO
CL	COTA DE LLEGADA
Cs	COTA DE SALIDA
HP	ALTURA DE POZO

### RED DE ALCANTARILLADO SANITARIO SANTA LUCÍA

POZO	ESTE (m)	NORTE (m)	C. TERRENO (m)	C. TERRENO (m)	C. LLEGADA (m)	C. SALIDA (m)
<b>EL CALVARIO - LA DOLOROSA</b>						
<b>TRAMO F</b>						
PZ-L99	758379.34	9850162.45	3361.20	-	3359.70	3359.70
PZ-L100	758412.56	9850120.85	3357.25	3355.78	3355.78	3355.73
PZ-L101	758475.83	9850075.52	3347.10	3345.33	3345.23	3345.23
PZ-L102	758546.23	9850007.42	3333.40	3329.80	3329.80	3329.80
PZ-L103	758573.19	9849976.81	3327.41	3325.58	3325.48	3325.48
PZ-L104	758601.20	9849903.70	3316.86	3314.48	3314.38	3314.38
PZ-L105	758624.48	9849851.00	3313.11	3310.55	3310.55	3310.55
PZ-L106	758657.73	9849802.66	3307.91	3305.91	3305.86	3305.86
PZ-L107	758682.65	9849757.58	3307.79	3305.79	3305.76	3305.76
PZ-L108	758691.20	9849707.69	3303.48	3301.54	3301.54	3301.54
PZ-L109	758698.67	9849740.33	3301.36	3299.46	3299.40	3299.40
PZ-L110	758698.67	9849740.33	3301.36	3299.46	3299.40	3299.40
PZ-L111	758675.64	9849726.78	3299.55	3297.88	3297.82	3297.82
PZ-L112	758693.32	9849705.63	3297.36	3295.39	3295.34	3295.34
PZ-L113	758604.12	9849681.51	3295.99	3294.84	3294.79	3294.79
PZ-L114	758609.96	9849664.09	3294.74	3293.57	3293.54	3293.54
PZ-L115	758642.39	9849666.22	3293.59	3291.69	3291.62	3291.62
PZ-L116	758730.18	9849666.22	3293.29	3291.29	3291.29	3291.29
PZ-L45	758756.18	9849662.05	3293.01	3289.81	3289.81	3289.81
PZ-L117	758783.87	9849647.08	3292.34	3289.39	3289.34	3289.34
PZ-L98	758795.90	9849652.70	3292.23	3288.85	3288.85	3288.85
<b>TRAMO F-1</b>						
PZ-L108	758597.92	9849743.93	3309.35	-	3307.91	3307.91
PZ-L107	758652.65	9849797.58	3307.79	3305.79	3305.76	3305.76

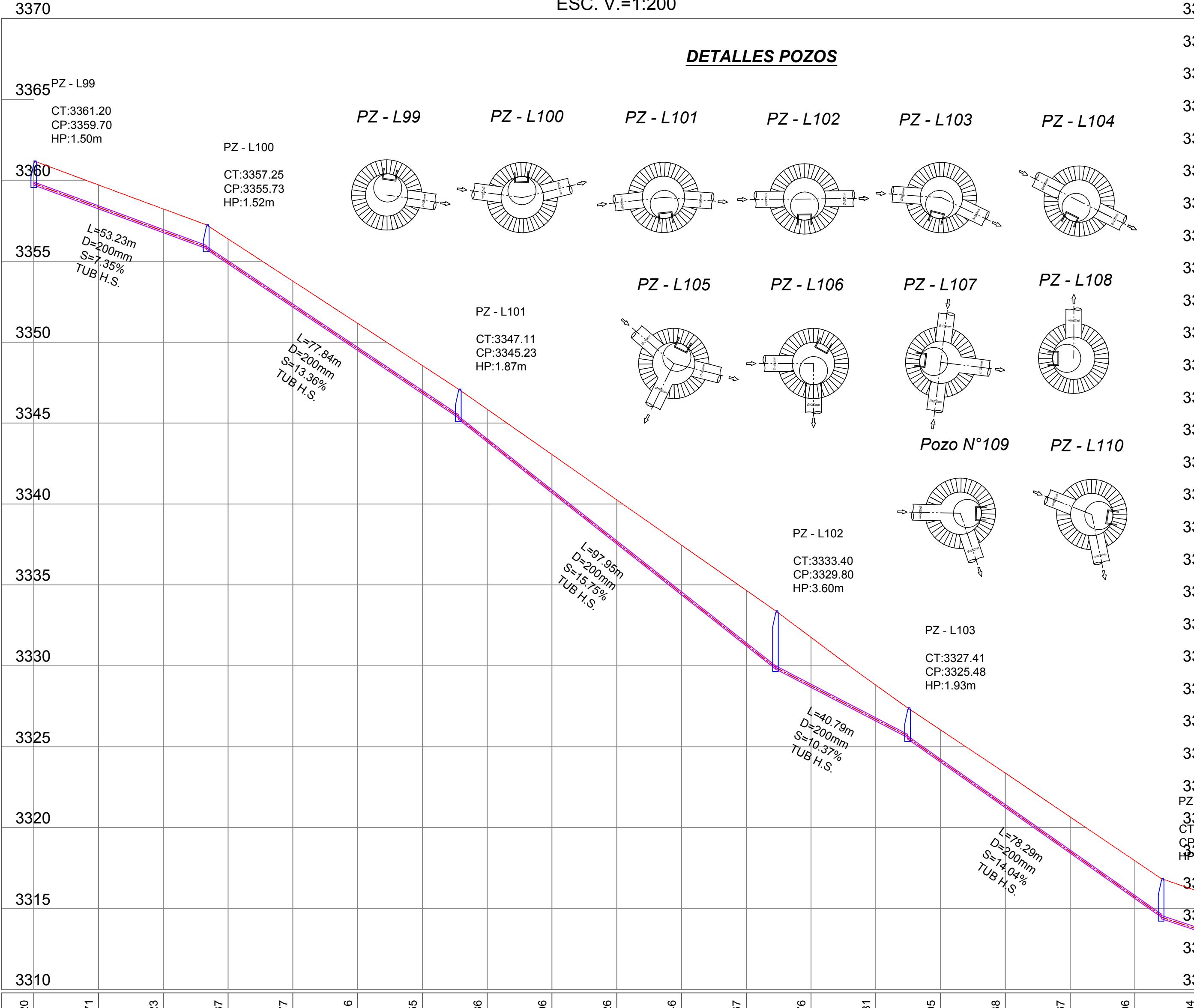
<b>EL CALVARIO - LA DOLOROSA - SAN ISIDRO</b>						
PZ-L118	757933.53	9849569.90	3367.75	-	3366.29	3366.29
PZ-L119	757990.10	9849583.90	3366.49	3365.40	3365.40	3365.40
PZ-L120	758034.31	9849569.78	3365.04	3361.89	3361.89	3361.89
PZ-L121	758101.11	9849601.69	3359.36	3355.97	3355.97	3355.97
PZ-L122	758132.89	9849609.26	3355.68	3353.01	3353.21	3353.21
PZ-L123	758209.55	9849648.42	3348.82	3345.82	3345.82	3345.82
PZ-L124	758263.38	9849671.16	3343.98	3340.58	3340.58	3340.58
PZ-L125	758306.42	9849691.12	3339.37	3335.59	3335.59	3335.59
PZ-L126	758354.01	9849708.41	3334.66	3333.26	3333.26	3333.26
PZ-L127	758413.84	9849745.29	3333.49	3331.29	3331.29	3331.29
PZ-L128	758483.96	9849787.83	3328.13	3325.73	3325.63	3325.63
PZ-L129	758553.30	9849816.60	3323.34	3319.24	3319.24	3319.24
PZ-L105	758624.48	9849851.00	3313.11	3310.85	3310.55	3310.55

**G.A.D. MUNICIPAL DEL CANTON TISALEO**  
 "CATASTRO DE LOS SISTEMAS DE ALCANTARILLADO A TRAVÉS DE LA GEOREFERENCIACIÓN Y DIGITALIZACIÓN PARA MEJORAR LA CALIDAD DE INFORMACIÓN SANITARIA DE LA PARROQUIA URBANA TISALEO Y CASERIOS SAN LUIS, SAN FRANCISCO, SAN JUAN, SAN DIEGO, ALDAMBRA, SANTA LUCÍA-LA LIBERTAD, SANTA LUCÍA-CENTRO, SANTA LUCÍA ARRIBA, EL CALVARIO DEL CANTÓN TISALEO, PROVINCIA DE TUNGURAHUA"

CONTIENE: RED DE ALCANTARILLADO SANITARIO SANTA LUCÍA - TRAMO F BARRIO LA DOLOROSA

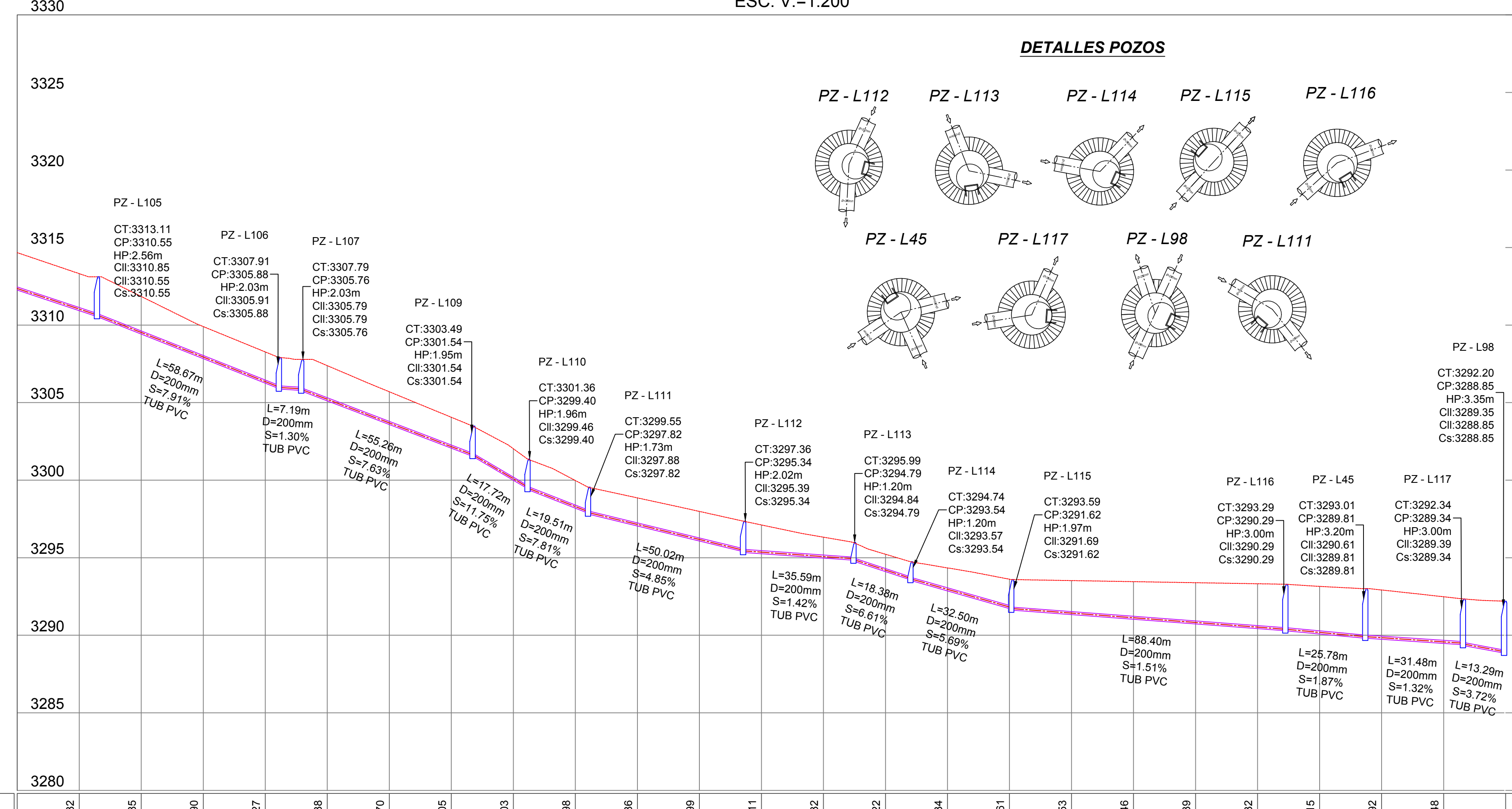
PROVINCIA: TUNGURAHUA CANTÓN: TISALEO SECTOR: EL CALVARIO  
 FECHA: 15 DE SEPTIEMBRE 2022 ESCALA: 1:1000  
 ELABORADO POR: REVISADO POR: APROBADO POR: LÁMINA: LÁMINA - 09  
 Egitz Tamara Bonilla Testa Ing. Gato Nuñez Tutor Ing. Gato Nuñez Tutor TOTAL LÁMINAS: 40

PERFIL LONGITUDINAL ESC. H.=1:1000 ESC. V.=1:200



ABSCISA	0+00	0+20	0+40	0+60	0+80	0+100	0+120	0+140	0+160	0+180	0+200	0+220	0+240	0+260	0+280	0+300	0+320	0+340	0+360
COTA TERRENO	3361.20	3359.71	3358.23	3356.76	3355.27	3353.77	3352.28	3350.79	3349.30	3347.81	3346.32	3344.83	3343.34	3341.85	3340.36	3338.87	3337.38	3335.89	3334.40
COTA PROYECTO	3359.70	3358.23	3356.76	3355.27	3353.77	3352.28	3350.79	3349.30	3347.81	3346.32	3344.83	3343.34	3341.85	3340.36	3338.87	3337.38	3335.89	3334.40	3332.91
CORTE	1.50	1.48	1.47	1.54	1.61	1.67	1.74	2.03	2.38	2.73	3.08	3.44	3.09	2.22	2.00	2.14	2.24	2.34	2.45

PERFIL LONGITUDINAL ESC. H.=1:1000 ESC. V.=1:200

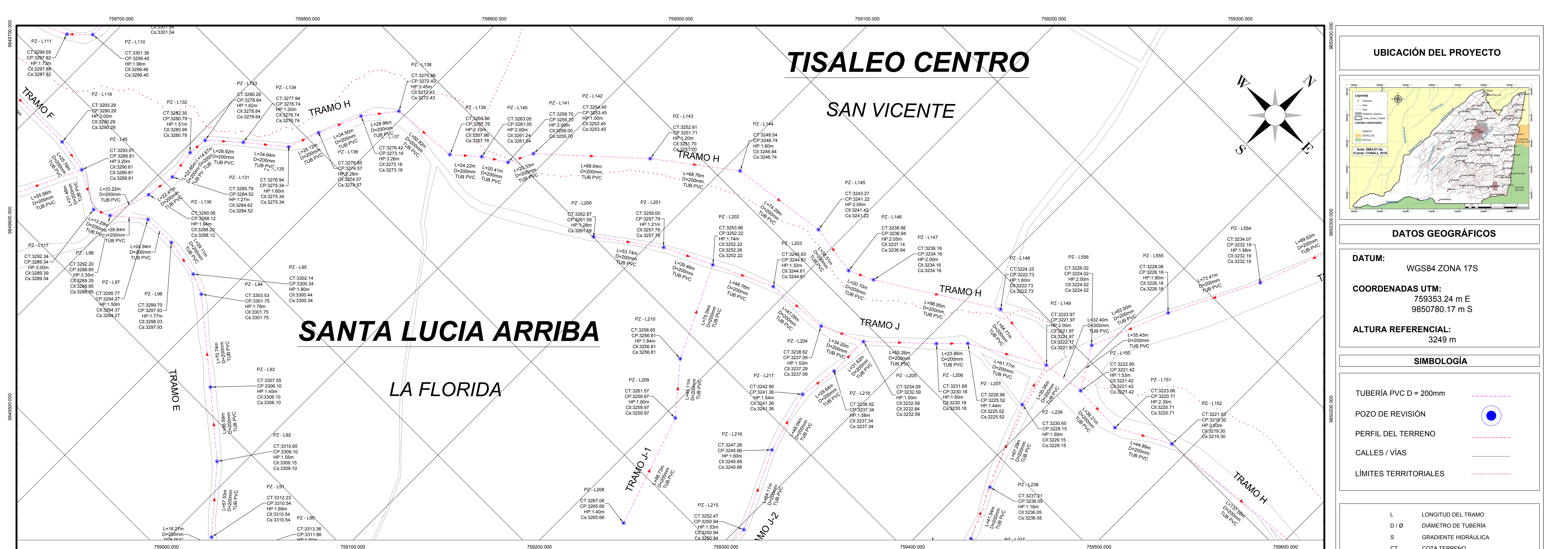


ABSCISA	0+400	0+420	0+440	0+460	0+480	0+500	0+520	0+540	0+560	0+580	0+600	0+620	0+640	0+660	0+680	0+700	0+720	0+740	0+760	0+780	0+800	0+820	0+840	0+860
COTA TERRENO	3310.83	3313.32	3311.85	3309.38	3306.91	3304.44	3301.97	3299.50	3297.03	3294.56	3292.09	3289.62	3287.15	3284.68	3282.21	3279.74	3277.27	3274.80	3272.33	3269.86	3267.39	3264.92	3262.45	3260.00
COTA PROYECTO	3309.42	3307.95	3306.48	3305.01	3303.54	3302.07	3300.60	3299.13	3297.66	3296.19	3294.72	3293.25	3291.78	3290.31	3288.84	3287.37	3285.90	3284.43	3282.96	3281.49	3280.02	3278.55	3277.08	3275.61
CORTE	2.39	2.42	2.06	2.01	2.27	2.11	1.99	2.03	1.78	1.81	1.91	1.86	1.35	1.12	1.48	1.92	2.20	2.43	2.66	2.90	3.07	3.18	3.01	

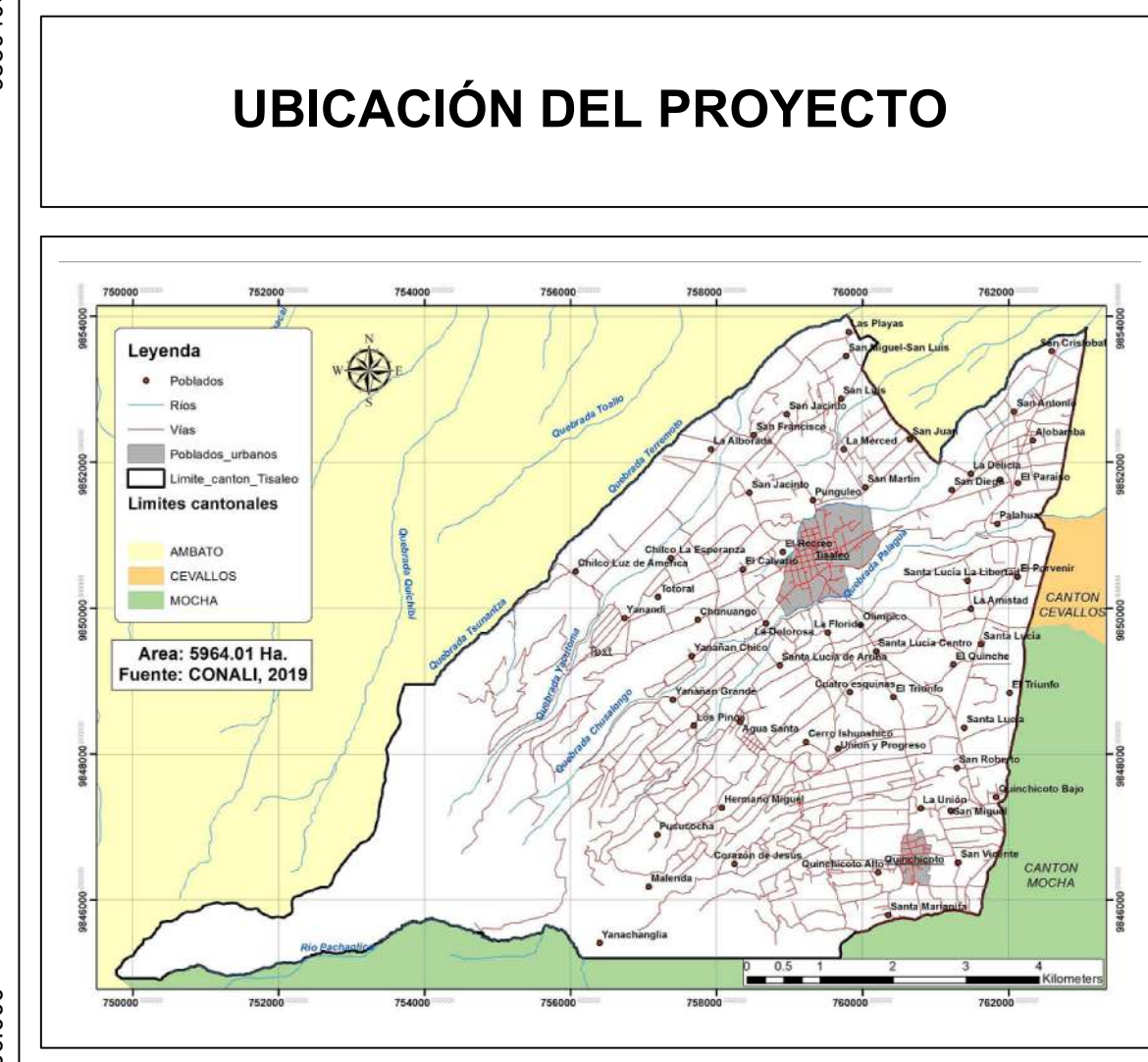
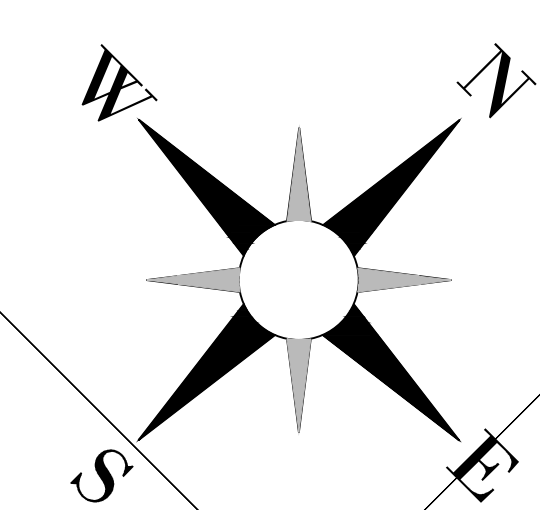








# TISALEO CENTRO SAN VICENTE



### UBICACIÓN DEL PROYECTO

**DATUM:** WGS84 ZONA 17S

**COORDENADAS UTM:**  
759353.24 m E  
9850780.17 m S

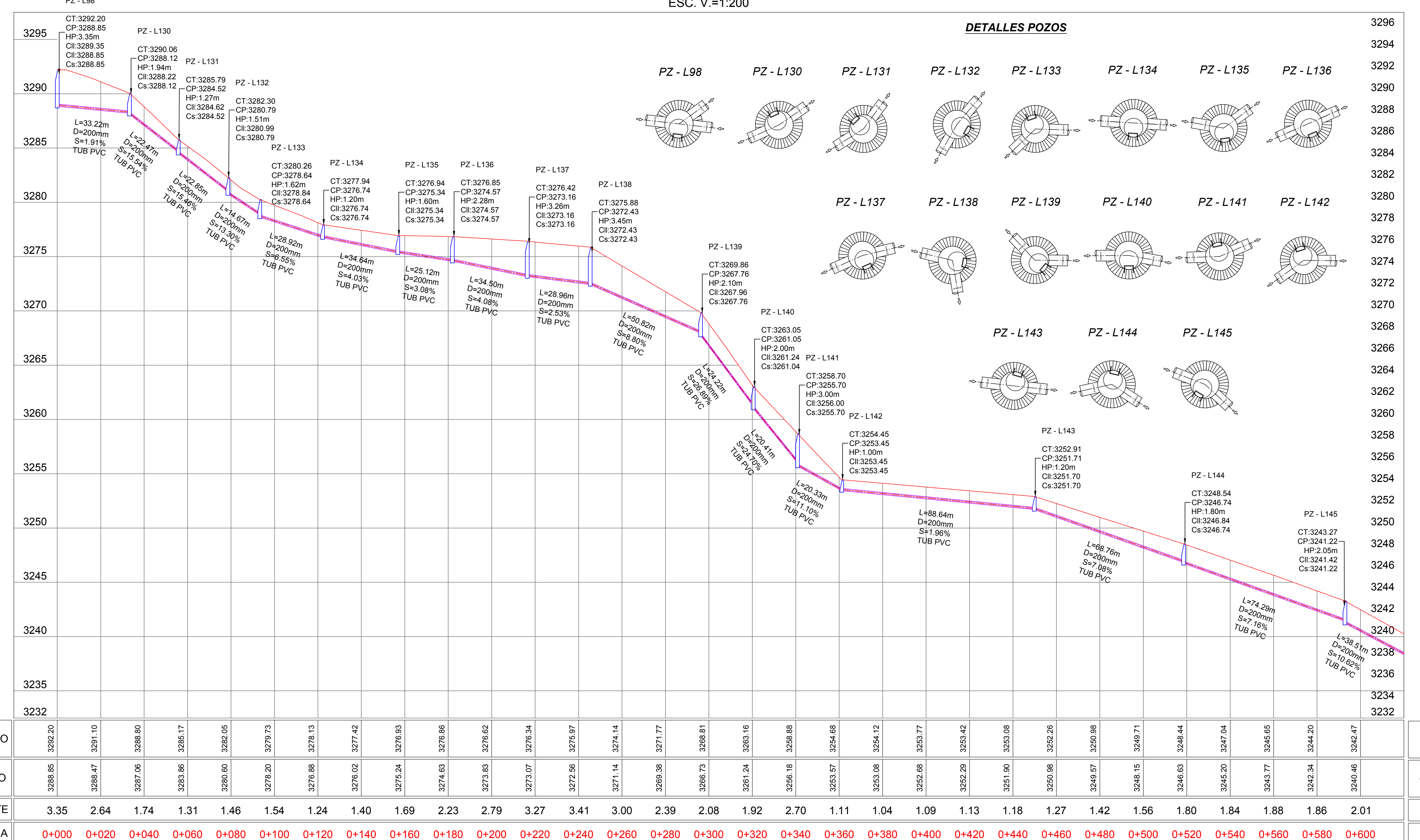
**ALTURA REFERENCIAL:**  
3249 m

### SIMBOLOGÍA

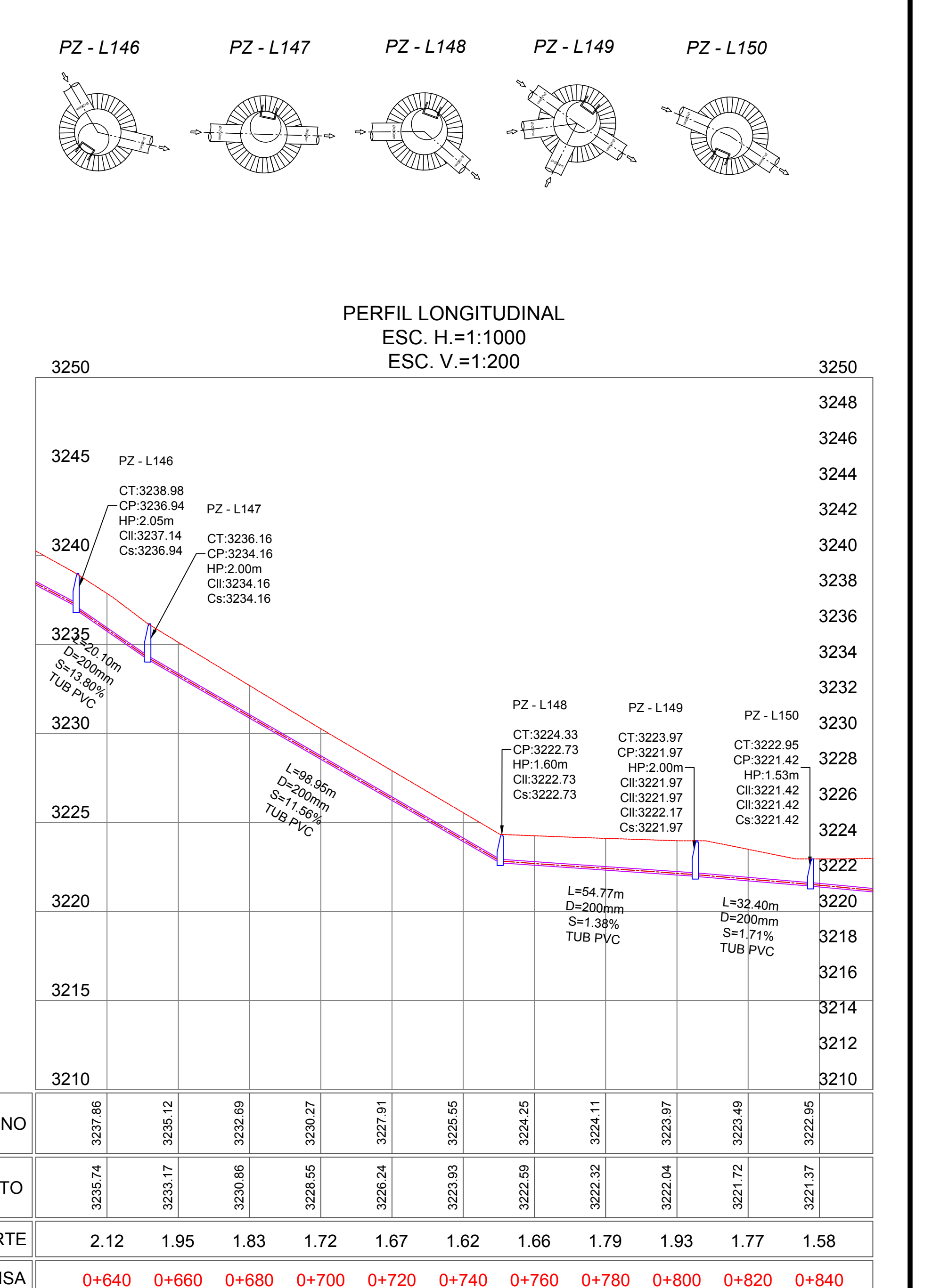
- TUBERÍA PVC D = 200mm
- POZO DE REVISIÓN
- PERFIL DEL TERRENO
- CALLES / VÍAS
- LÍMITES TERRITORIALES

- L LONGITUD DEL TRAMO
- D / Ø DIÁMETRO DE TUBERÍA
- S GRADIENTE HIDRÁULICA
- CT COTA TERRENO
- CP COTA PROYECTO
- CI COTA DE LLEGADA
- Cs COTA DE SALIDA
- HP ALTURA DE POZO

PERFIL LONGITUDINAL  
ESC. H=1:1000  
ESC. V=1:200



PERFIL LONGITUDINAL  
ESC. H=1:1000  
ESC. V=1:200



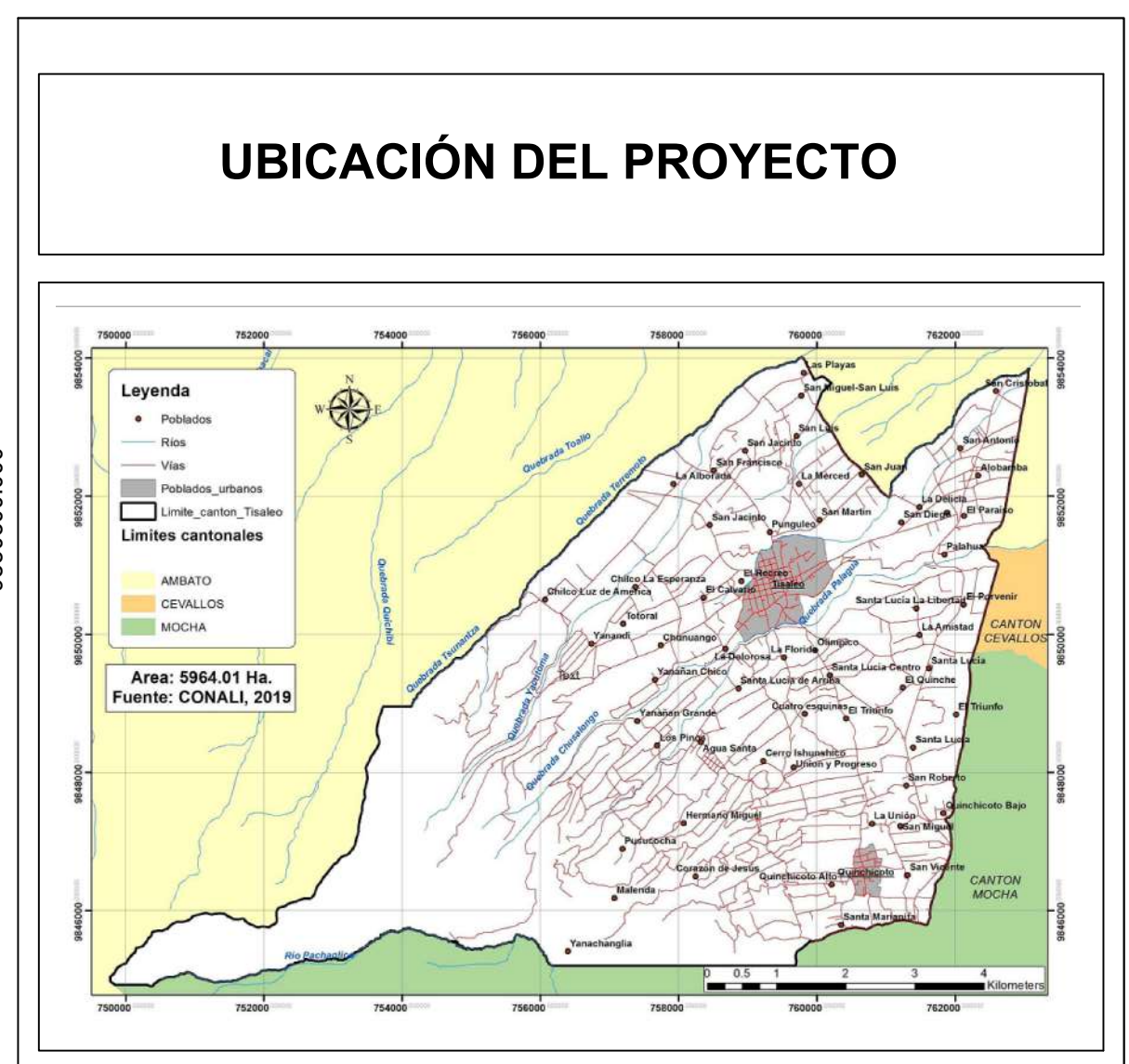
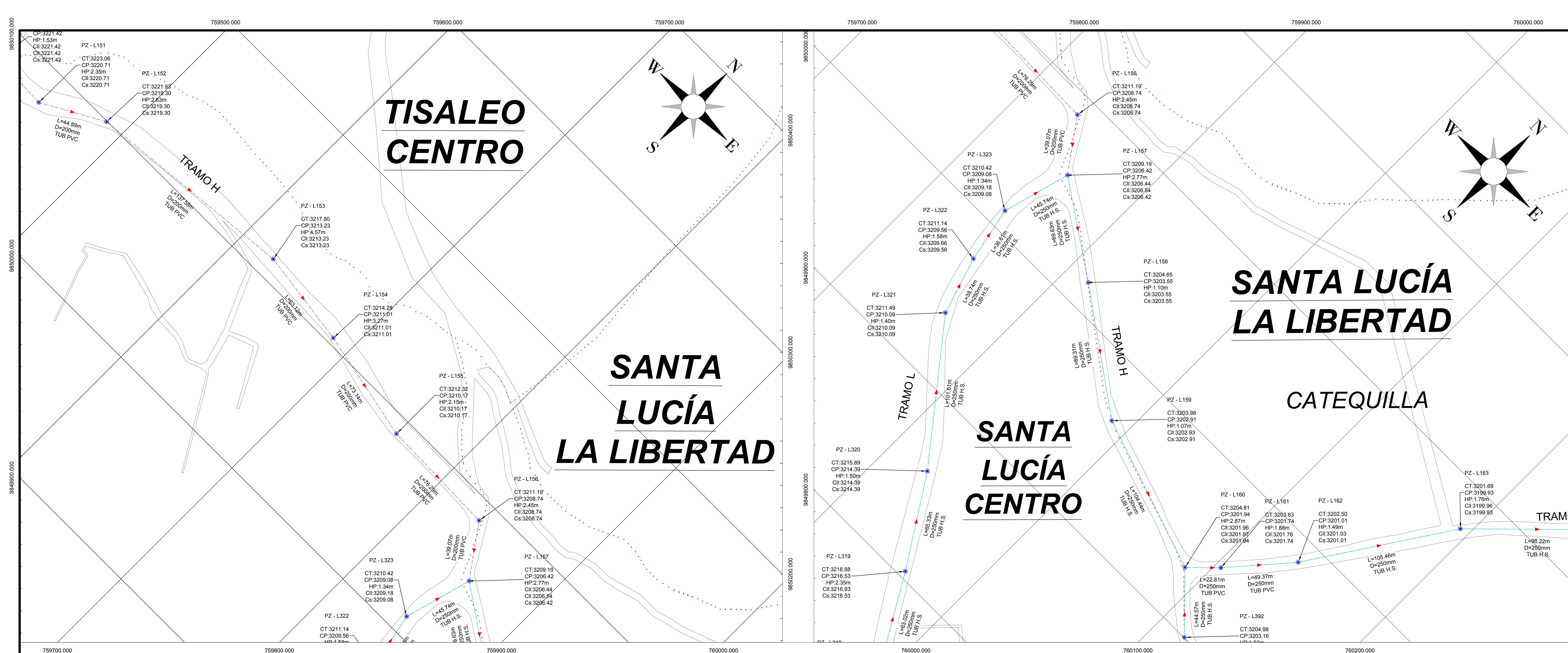
### RED DE ALCANTARILLADO SANITARIO SANTA LUCÍA

POZO	ESTE (m)	NORTE (m)	C. TERRENO (m)	C. PROYECTO (m)	LEJADA (m)	C. SALIDA (m)
<b>SANTA LUCÍA ARRIBA - LA FLORIDA</b>						
PZ-L111	758795.00	984952.70	3292.20	3288.85	3288.85	3288.85
PZ-L110	758805.40	984984.55	3290.00	3288.00	3288.00	3288.00
PZ-L109	758815.80	984976.78	3288.79	3284.62	3284.62	3284.62
PZ-L108	758826.20	984969.01	3287.54	3280.46	3280.46	3280.46
PZ-L107	758836.60	984961.24	3286.29	3276.30	3276.30	3276.30
PZ-L106	758847.00	984953.47	3285.04	3272.14	3272.14	3272.14
PZ-L105	758857.40	984945.70	3283.79	3267.98	3267.98	3267.98
PZ-L104	758867.80	984937.93	3282.54	3263.82	3263.82	3263.82
PZ-L103	758878.20	984930.16	3281.29	3259.66	3259.66	3259.66
PZ-L102	758888.60	984922.39	3280.04	3255.50	3255.50	3255.50
PZ-L101	758899.00	984914.62	3278.79	3251.34	3251.34	3251.34
PZ-L100	758909.40	984906.85	3277.54	3247.18	3247.18	3247.18
PZ-L099	758919.80	984899.08	3276.29	3243.02	3243.02	3243.02
PZ-L098	758930.20	984891.31	3275.04	3238.86	3238.86	3238.86
PZ-L097	758940.60	984883.54	3273.79	3234.70	3234.70	3234.70
PZ-L096	758951.00	984875.77	3272.54	3230.54	3230.54	3230.54
PZ-L095	758961.40	984867.99	3271.29	3226.38	3226.38	3226.38
PZ-L094	758971.80	984860.22	3270.04	3222.22	3222.22	3222.22
PZ-L093	758982.20	984852.45	3268.79	3218.06	3218.06	3218.06
PZ-L092	758992.60	984844.68	3267.54	3213.90	3213.90	3213.90
PZ-L091	758999.00	984836.91	3266.29	3209.74	3209.74	3209.74
PZ-L090	759005.40	984829.14	3265.04	3205.58	3205.58	3205.58
PZ-L089	759015.80	984821.37	3263.79	3201.42	3201.42	3201.42
PZ-L088	759026.20	984813.60	3262.54	3197.26	3197.26	3197.26
PZ-L087	759036.60	984805.83	3261.29	3193.10	3193.10	3193.10
PZ-L086	759047.00	984798.06	3260.04	3188.94	3188.94	3188.94
PZ-L085	759057.40	984790.29	3258.79	3184.78	3184.78	3184.78
PZ-L084	759067.80	984782.52	3257.54	3180.62	3180.62	3180.62
PZ-L083	759078.20	984774.75	3256.29	3176.46	3176.46	3176.46
PZ-L082	759088.60	984766.98	3255.04	3172.30	3172.30	3172.30
PZ-L081	759099.00	984759.21	3253.79	3168.14	3168.14	3168.14
PZ-L080	759109.40	984751.44	3252.54	3163.98	3163.98	3163.98
PZ-L079	759119.80	984743.67	3251.29	3159.82	3159.82	3159.82
PZ-L078	759130.20	984735.90	3250.04	3155.66	3155.66	3155.66
PZ-L077	759140.60	984728.13	3248.79	3151.50	3151.50	3151.50
PZ-L076	759151.00	984720.36	3247.54	3147.34	3147.34	3147.34
PZ-L075	759161.40	984712.59	3246.29	3143.18	3143.18	3143.18
PZ-L074	759171.80	984704.82	3245.04	3139.02	3139.02	3139.02
PZ-L073	759182.20	984697.05	3243.79	3134.86	3134.86	3134.86
PZ-L072	759192.60	984689.28	3242.54	3130.70	3130.70	3130.70
PZ-L071	759203.00	984681.51	3241.29	3126.54	3126.54	3126.54
PZ-L070	759213.40	984673.74	3240.04	3122.38	3122.38	3122.38
PZ-L069	759223.80	984665.97	3238.79	3118.22	3118.22	3118.22
PZ-L068	759234.20	984658.20	3237.54	3114.06	3114.06	3114.06
PZ-L067	759244.60	984650.43	3236.29	3109.90	3109.90	3109.90
PZ-L066	759255.00	984642.66	3235.04	3105.74	3105.74	3105.74
PZ-L065	759265.40	984634.89	3233.79	3101.58	3101.58	3101.58
PZ-L064	759275.80	984627.12	3232.54	3097.42	3097.42	3097.42
PZ-L063	759286.20	984619.35	3231.29	3093.26	3093.26	3093.26
PZ-L062	759296.60	984611.58	3230.04	3089.10	3089.10	3089.10
PZ-L061	759307.00	984603.81	3228.79	3084.94	3084.94	3084.94
PZ-L060	759317.40	984596.04	3227.54	3080.78	3080.78	3080.78
PZ-L059	759327.80	984588.27	3226.29	3076.62	3076.62	3076.62
PZ-L058	759338.20	984580.50	3225.04	3072.46	3072.46	3072.46
PZ-L057	759348.60	984572.73	3223.79	3068.30	3068.30	3068.30
PZ-L056	759359.00	984564.96	3222.54	3064.14	3064.14	3064.14
PZ-L055	759369.40	984557.19	3221.29	3059.98	3059.98	3059.98
PZ-L054	759379.80	984549.42	3220.04	3055.82	3055.82	3055.82
PZ-L053	759390.20	984541.65	3218.79	3051.66	3051.66	3051.66
PZ-L052	759400.60	984533.88	3217.54	3047.50	3047.50	3047.50
PZ-L051	759411.00	984526.11	3216.29	3043.34	3043.34	3043.34
PZ-L050	759421.40	984518.34	3215.04	3039.18	3039.18	3039.18
PZ-L049	759431.80	984510.57	3213.79	3035.02	3035.02	3035.02
PZ-L048	759442.20	984502.80	3212.54	3030.86	3030.86	3030.86
PZ-L047	759452.60	984495.03	3211.29	3026.70	3026.70	3026.70
PZ-L046	759463.00	984487.26	3210.04	3022.54	3022.54	3022.54
PZ-L045	759473.40	984479.49	3208.79	3018.38	3018.38	3018.38
PZ-L044	759483.80	984471.72	3207.54	3014.22	3014.22	3014.22
PZ-L043	759494.20	984463.95	3206.29	3010.06	3010.06	3010.06
PZ-L042	759504.60	984456.18	3205.04	3005.90	3005.90	3005.90
PZ-L041	759515.00	984448.41	3203.79	3001.74	3001.74	3001.74
PZ-L040	759525.40	984440.64	3202.54	2997.58	2997.58	2997.58
PZ-L039	759535.80	984432.87	3201.29	2993.42	2993.42	2993.42
PZ-L038	759546.20	984425.10	3200.04	2989.26	2989.26	2989.26
PZ-L037	759556.60	984417.33	3198.79	2985.10	2985.10	2985.10
PZ-L036	759567.00	984409.56	3197.54	2980.94	2980.94	2980.94
PZ-L035	759577.40	984401.79	3196.29	2976.78	2976.78	2976.78
PZ-L034	759587.80	984394.02	3195.04	2972.62	2972.62	2972.62
PZ-L033	759598.20	984386.25	3193.79	2968.46	2968.46	2968.46
PZ-L032	759608.60	984378.48	3192.54	2964.30	2964.30	2964.30
PZ-L031	759619.00	984370.71	3191.29	2960.14	2960.14	2960.14
PZ-L030	759629.40	984362.94	3190.04	2955.98	2955.98	2955.98
PZ-L029	759639.80	984355.17	3188.79	2951.82	2951.82	2951.82
PZ-L028	759650.20	984347.40	3187.54	2947.66	2947.66	2947.66
PZ-L027	759660.60	984339.63	3186.29	2943.50	2943.50	2943.50
PZ-L026	759671.00	984331.86	3185.04	2939.34	2939.34	2939.34
PZ-L025	759681.40	984324.09	3183.79	2935.18	2935.18	2935.18
PZ-L024	759691.80	984316.32	3182.54	2931.02	2931.02	2931.02
PZ-L023	759702.20	984308.55	3181.29	2926.86	2926.86	2926.86
PZ-L022	759712.60	984300.78	3180.04	2922.70	2922.70	2922.70
PZ-L021	759723.00	984293.01	3178.79	2918.54	2918.54	2918.54
PZ-L020	759733.40	984285.24	3177.54	2914.38	2914.38	2914.38
PZ-L019	759743.80	984277.47	3176.29	2910.22	2910.22	2910.22
PZ-L018	759754.20	984269.70	3175.04	2906.06	2906.06	2906.06
PZ-L017	759764.60	984261.93	3173.79	2901.90	2901.90	2901.90
PZ-L016	759775.00	984254.16	3172.54	2897.74	2897.74	2897.74
PZ-L015	759785.40	984246.39	3171.29	2893.58	2893.58	2893.58
PZ-L014	759795.80	984238.62	3170.04	2889.42	2889.42	2889.42
PZ-L013	759806.20	984230.85	3168.79	2885.26	2885.26	2885.26
PZ-L012	759816.60	984223.08	3167.54	2881.10	2881.10	2881.10
PZ-L011	759827.00	984215.31	3166.29	2876.94	2876.94	2876.94
PZ-L010	759837.40	984207.54	3165.04	2872.78	2872.78	2872.78
PZ-L009	759847.80	984199.77	3163.79	2868.62	2868.62	2868.62
PZ-L008	759858.20	984192.00	3162.54	2864.46	2864.46	2864.46
PZ-L007	759868.60	984184.23	3161.29	2860.30	2860.30	2860.30
PZ-L006	759879.00	984176.46	3160.04	2856.14	2856.14	2856.14
PZ-L005	759889.40	984168.69	3158.79	2851.98	2851.98	2851.98
PZ-L004	759900.00	984160.92	3157.54	2847.82	2847.82	2847.82
PZ-L003	759910.40	984153.15	3156.29	2843.66	2843.66	2843.66
PZ-L002	759920.80	984145.38	3155.04	2839.50	2839.50	2839.50
PZ-L001	759931.20	984137.61	3153.79	2835.34	2835.34	2835.34

**G.A.D. MUNICIPAL DEL CANTON TISALEO**

"CATASTRO DE LOS SISTEMAS DE ALCANTARILLADO A TRAVÉS DE LA GEOREFERENCIACIÓN Y DIGITALIZACIÓN PARA MEJORAR LA CALIDAD DE INFORMACIÓN SANITARIA DE LA PARROQUIA URBANA TISALEO Y CASERIOS SAN LUIS, SAN FRANCISCO, SAN JUAN, SAN DIEGO, ALDAMBA, SANTA LUCÍA-LIBERTAD, SANTA LUCÍA-CENTRO, SANTA LUCÍA ARRIBA, EL CAL





**UBICACIÓN DEL PROYECTO**

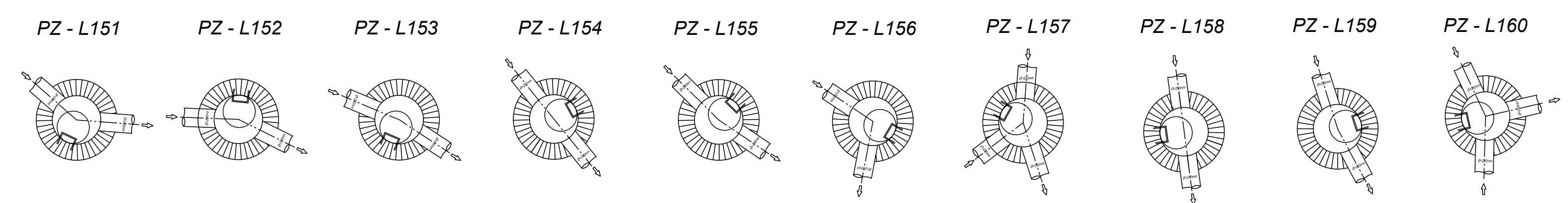
**DATUM:** WGS84 ZONA 17S  
**COORDENADAS UTM:** 759353.24 m E, 9850780.17 m S  
**ALTURA REFERENCIAL:** 3249 m

**SIMBOLOGÍA**

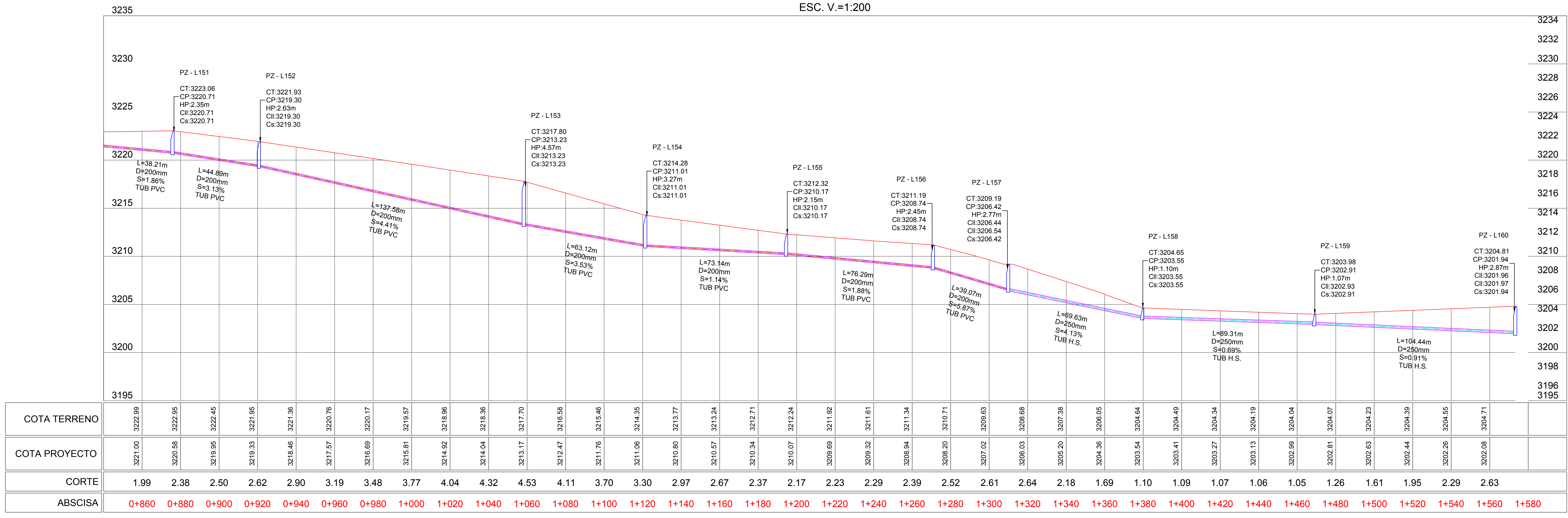
- TUBERÍA PVC D = 200mm
- TUBERÍA H.S. D = 250mm
- POZO DE REVISIÓN
- PERFIL DEL TERRENO
- CALLES / VÍAS
- LÍMITES TERRITORIALES

L LONGITUD DEL TRAMO  
D / Ø DIÁMETRO DE TUBERÍA  
S GRADIENTE HIDRÁULICA  
CT COTAS TERRENO  
CP COTA PROYECTO  
CII COTA DE LLEGADA  
Cs COTA DE SALIDA  
HP ALTURA DE POZO

**DETALLES POZOS**



**PERFIL LONGITUDINAL**  
 ESC. H.=1:1000  
 ESC. V.=1:200



**RED DE ALCANTARILLADO SANITARIO SANTA LUCÍA**

POZO	ESTE (m)	NORTE (m)	C. TERRENO (m)	C. LLEGADA (m)	C. SALIDA (m)
PZ-L98	758795.90	984952.70	3292.20	3288.85	3288.85
PZ-L130	758805.40	984964.55	3290.06	3288.22	3288.12
PZ-L131	758808.65	984976.78	3285.79	3284.62	3284.52
PZ-L132	758805.11	984979.35	3282.30	3280.99	3280.79
PZ-L133	758806.57	984974.96	3280.26	3278.84	3278.64
PZ-L134	758808.07	984976.29	3277.65	3276.75	3276.55
PZ-L135	758854.93	984985.17	3276.94	3275.34	3275.34
PZ-L136	758863.31	984980.86	3276.85	3274.57	3274.57
PZ-L137	758877.14	984940.48	3274.42	3273.16	3273.16
PZ-L138	758894.75	984963.45	3275.88	3273.43	3273.43
PZ-L139	758945.41	984967.50	3269.66	3267.96	3267.76
PZ-L140	758963.57	984983.52	3263.05	3261.25	3261.05
PZ-L141	758980.73	984984.57	3254.70	3256.00	3255.70
PZ-L142	758989.68	984912.82	3254.45	3254.45	3253.45
PZ-L143	759054.98	984997.77	3252.91	3252.91	3251.71
PZ-L144	759109.73	985014.38	3248.54	3246.84	3246.74
PZ-L145	759183.27	985024.91	3243.27	3241.42	3241.22
PZ-L146	759221.34	985019.12	3238.99	3237.14	3236.94
PZ-L147	759239.61	985027.51	3236.16	3234.16	3234.16
PZ-L148	759353.54	985019.90	3223.33	3222.73	3221.73
PZ-L149	759378.04	985007.50	3223.97	3221.97	3221.97
PZ-L150	759410.11	985007.11	3222.95	3221.42	3221.42
PZ-L151	759448.30	985007.75	3223.08	3220.71	3220.71
PZ-L152	759487.54	985009.55	3221.93	3219.30	3219.30
PZ-L153	759624.49	985012.75	3217.80	3213.23	3213.23
PZ-L154	759687.03	985010.23	3214.28	3211.01	3211.01
PZ-L155	759758.67	985008.51	3212.32	3210.17	3210.17
PZ-L156	759834.94	985008.62	3211.19	3208.74	3208.74
PZ-L157	759857.70	985005.87	3209.19	3206.44	3206.42
PZ-L158	759915.41	985016.90	3204.65	3203.56	3203.55
PZ-L159	759988.20	984995.28	3203.98	3202.93	3202.93
PZ-L160	760087.33	984952.12	3204.81	3201.96	3201.94

**G.A.D. MUNICIPAL DEL CANTON TISALEO**

“CATASTRO DE LOS SISTEMAS DE ALCANTARILLADO A TRAVÉS DE LA GEOREFERENCIACIÓN Y DIGITALIZACIÓN PARA MEJORAR LA CALIDAD DE INFORMACIÓN SANITARIA DE LA PARROQUIA URBANA TISALEO Y CASERIOS SAN LUIS, SAN FRANCISCO, SAN JUAN, SAN DIEGO, ALBAMA, SANTA LUCÍA LA LIBERTAD, SANTA LUCÍA CENTRO, SANTA LUCÍA ARRIBA, EL CALVARIO DEL CANTON TISALEO, PROVINCIA DE TUNGURAHUA”

CONTIENE: RED DE ALCANTARILLADO SANITARIO SANTA LUCÍA - TRAMO H BARRIO LA FLORIDA - OLIMPIO

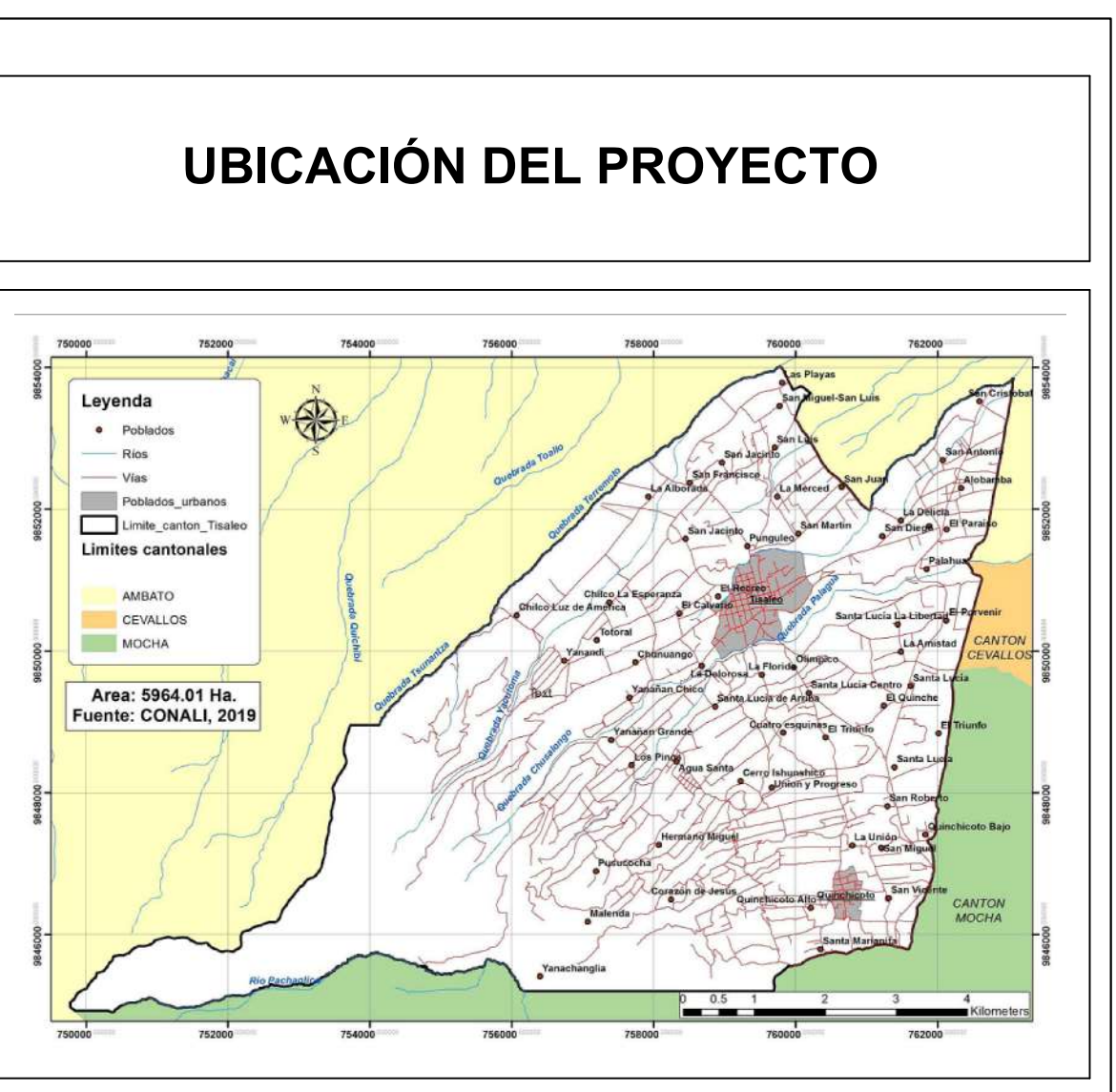
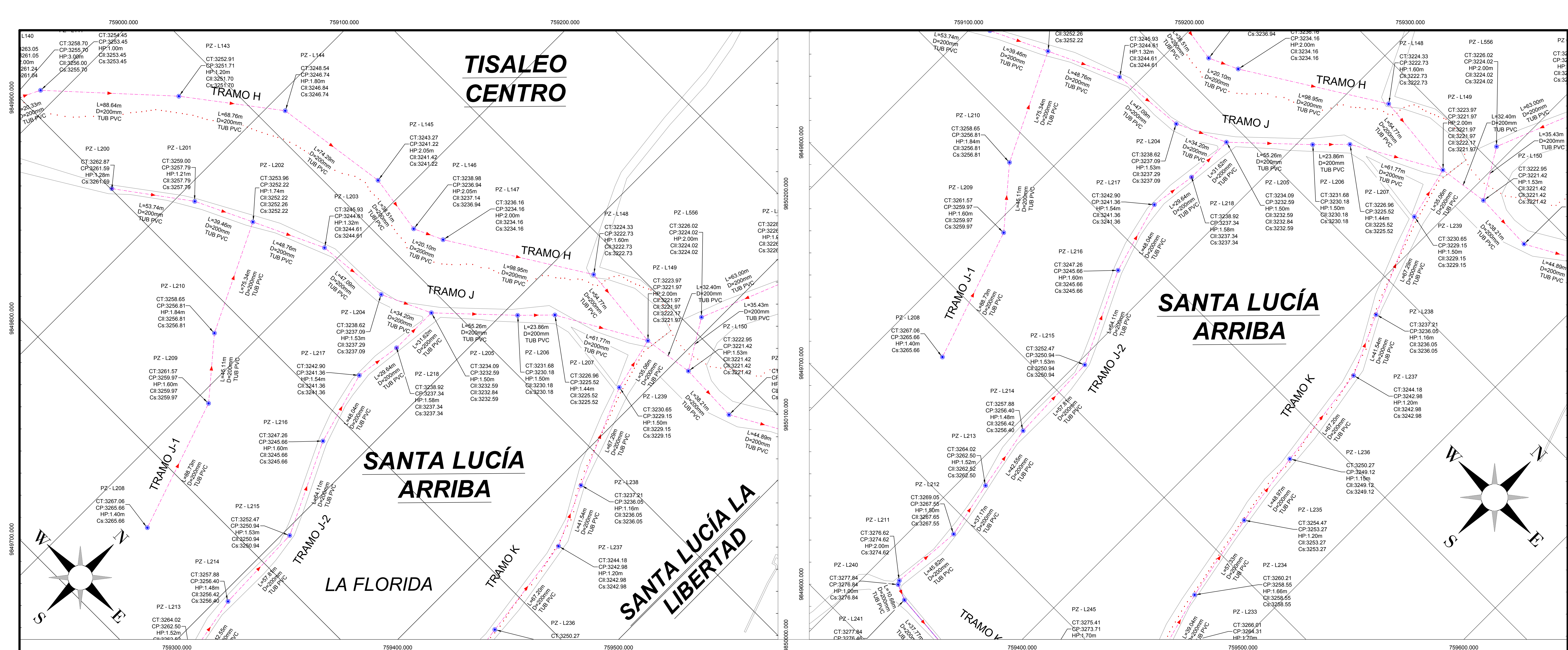
PROVINCIA: TUNGURAHUA CANTÓN: TISALEO SECTOR: SANTA LUCÍA CENTRO

FECHA: SEPTIEMBRE 2022 ESCALA: 1:1000

ELABORADO POR: Ing. Tania Bonita Testa REVISADO POR: Ing. Galo Núñez Tutor APROBADO POR: Ing. Galo Núñez Tutor

LÁMINA: LÁMINA - 12 TOTAL LÁMINAS: 40





**DATOS GEOGRÁFICOS**

**DATUM:** WGS84 ZONA 17S  
**COORDENADAS UTM:** 759353.24 m E  
 9850780.17 m S  
**ALTURA REFERENCIAL:** 3249 m

**SIMBOLOGÍA**

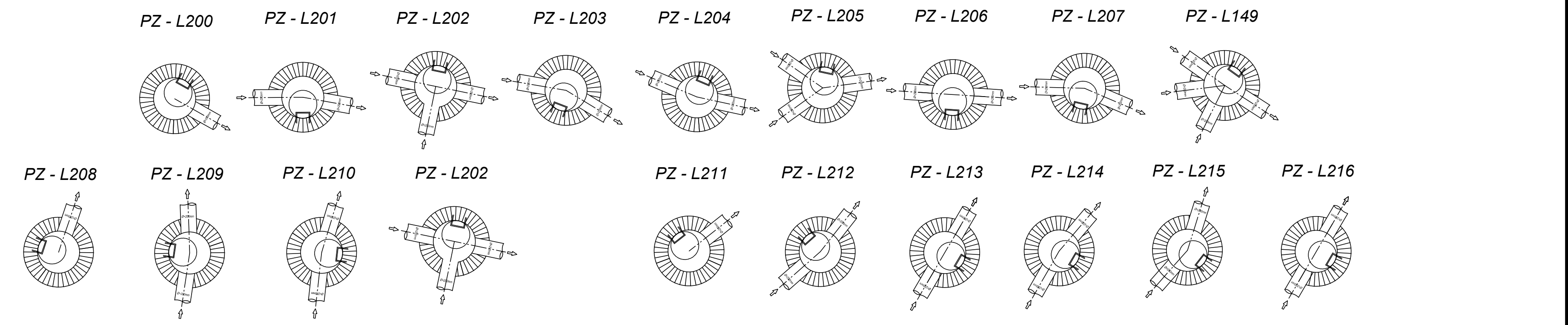
- TUBERÍA PVC D = 200mm
- POZO DE REVISIÓN
- PERFIL DEL TERRENO
- CALLES / VÍAS
- LÍMITES TERRITORIALES

L	LONGITUD DEL TRAMO
D / Ø	DIÁMETRO DE TUBERÍA
S	GRADIENTE HIDRÁULICA
CT	COTA TERRENO
CP	COTA PROYECTO
CI	COTA DE LLEGADA
CS	COTA DE SALIDA
HP	ALTURA DE POZO

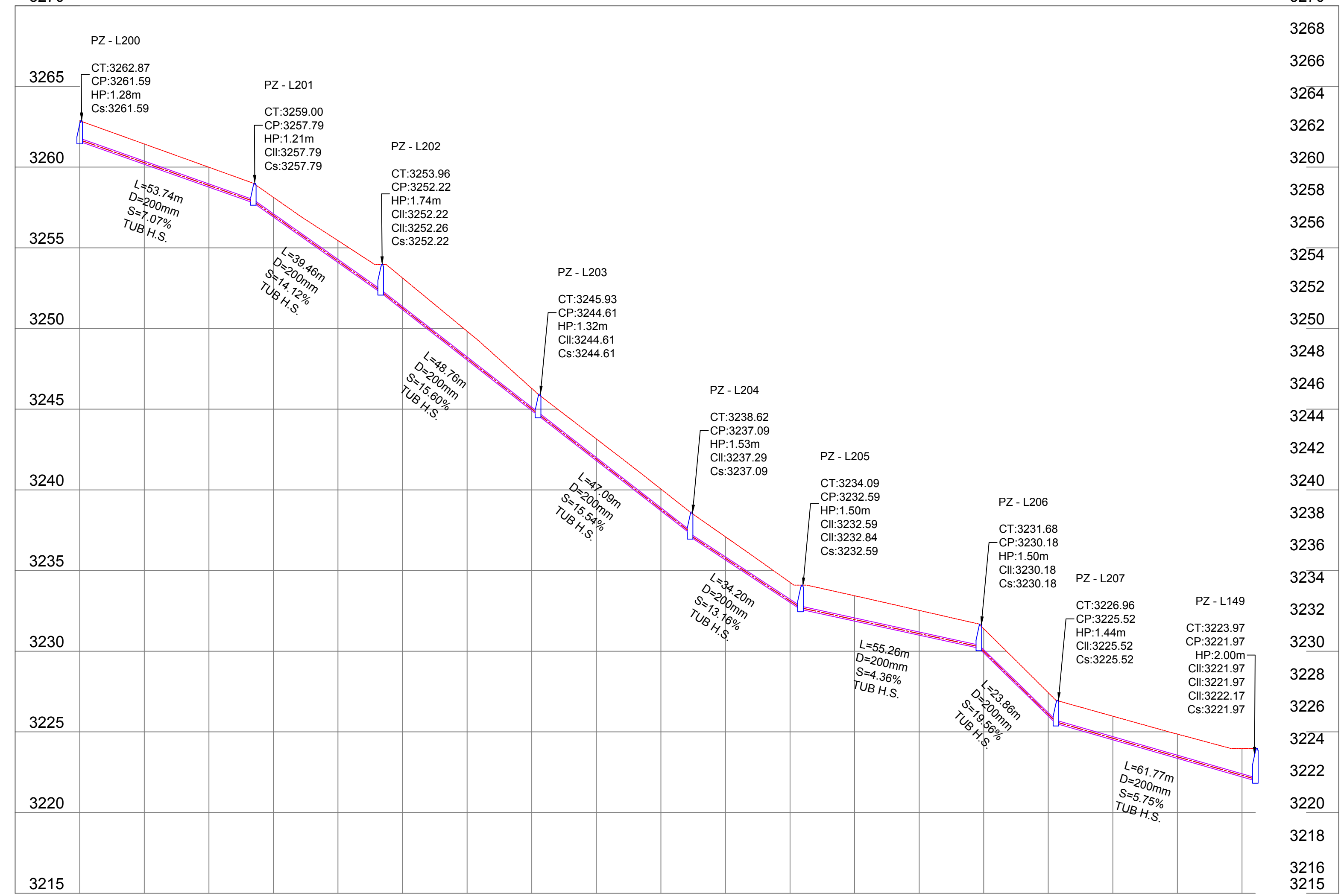
**RED DE ALCANTARILLADO SANITARIO SANTA LUCÍA ARRIBA - LA FLORIDA**

POZO	ESTE (m)	NORTE (m)	C. TERRENO (m)	C. LLEGADA (m)	C. SALIDA (m)
<b>TRAMO H</b>					
PZ-L98	758795.90	984952.78	3292.20	3388.85	3288.85
PZ-L100	758805.40	984964.55	3290.00	3288.22	3288.12
PZ-L101	758808.65	984970.78	3285.79	3284.62	3284.52
PZ-L102	758805.11	984979.35	3282.30	3280.99	3280.79
PZ-L103	758806.07	984974.96	3280.26	3278.84	3278.64
PZ-L104	758828.07	984973.29	3277.95	3276.75	3276.75
PZ-L105	758854.93	984976.17	3276.94	3275.34	3275.34
PZ-L106	758863.31	984980.86	3276.65	3274.57	3274.57
PZ-L107	758877.14	984984.46	3276.42	3273.16	3273.16
PZ-L108	758884.75	984985.45	3275.88	3272.43	3272.43
PZ-L109	758945.41	984987.50	3275.96	3270.98	3270.76
PZ-L110	758963.57	984988.52	3263.05	3261.25	3261.05
PZ-L111	758980.73	984989.57	3256.70	3256.00	3255.70
PZ-L112	758989.88	984991.32	3254.45	3254.45	3253.45
PZ-L113	759054.98	984992.77	3252.91	3252.91	3251.71
PZ-L114	759109.73	985001.43	3248.54	3246.84	3246.74
PZ-L115	759183.27	985004.91	3243.27	3241.42	3241.22
PZ-L116	759221.34	985019.12	3238.99	3237.14	3236.94
PZ-L117	759239.61	985027.51	3236.16	3234.16	3234.16
PZ-L118	759323.54	985039.90	3224.33	3222.73	3222.73
PZ-L119	759376.84	985071.50	3223.97	3221.97	3221.97
PZ-L120	759410.11	985079.11	3222.95	3221.42	3221.42
PZ-L121	759449.30	985077.75	3223.06	3220.71	3220.71
PZ-L122	759487.54	985076.55	3221.93	3219.30	3219.30
PZ-L123	759524.49	985012.75	3217.80	3213.23	3213.23
PZ-L124	759587.03	9850104.23	3214.28	3211.01	3211.01
PZ-L125	759718.67	985009.11	3212.32	3210.17	3210.17
PZ-L126	759834.94	985008.62	3211.19	3208.74	3208.74
PZ-L127	759887.03	985005.87	3209.19	3206.44	3206.42
PZ-L128	759915.41	985016.90	3204.65	3203.56	3203.55
PZ-L129	759988.29	984995.28	3203.98	3202.93	3202.91
PZ-L130	760087.33	984992.12	3201.81	3201.06	3201.94
<b>TRAMO J</b>					
PZ-L200	759006.47	984900.61	3262.87	-	3261.59
PZ-L201	759109.80	984932.40	3259.00	3257.79	3257.79
PZ-L202	759145.40	984949.41	3253.96	3252.22	3252.22
PZ-L203	759199.52	984970.18	3243.93	3244.61	3244.61
PZ-L204	759236.40	984974.66	3238.62	3237.29	3237.09
PZ-L205	759267.41	984999.07	3234.09	3232.59	3232.59
PZ-L206	759307.59	985027.02	3231.69	3230.19	3230.19
PZ-L207	759324.32	985044.02	3228.96	3225.52	3225.52
PZ-L149	759376.04	9850074.50	3223.97	3221.97	3221.97
<b>TRAMO J-1</b>					
PZ-L208	759236.02	984976.21	3267.06	-	3265.66
PZ-L209	759207.48	984984.72	3261.57	3259.97	3259.97
PZ-L210	759178.34	984981.65	3258.65	3256.81	3256.81
PZ-L211	759145.40	984969.41	3253.96	3252.26	3252.22
<b>TRAMO J-2</b>					
PZ-L212	759317.73	984964.46	3276.62	-	3274.62
PZ-L213	759331.75	984974.55	3264.02	3262.50	3262.50
PZ-L214	759305.93	984976.37	3257.88	3256.42	3256.40
PZ-L215	759304.03	984984.13	3252.47	3250.84	3250.84
PZ-L216	759276.74	984981.98	3247.26	3245.66	3245.66
PZ-L217	759263.08	984998.15	3242.90	3241.36	3241.36
PZ-L218	759267.46	984991.46	3238.92	3237.34	3237.34
PZ-L219	759287.41	984998.07	3234.09	3232.84	3232.84
PZ-L220	759297.41	984998.07	3234.09	3232.84	3232.84

**DETALLES POZOS**

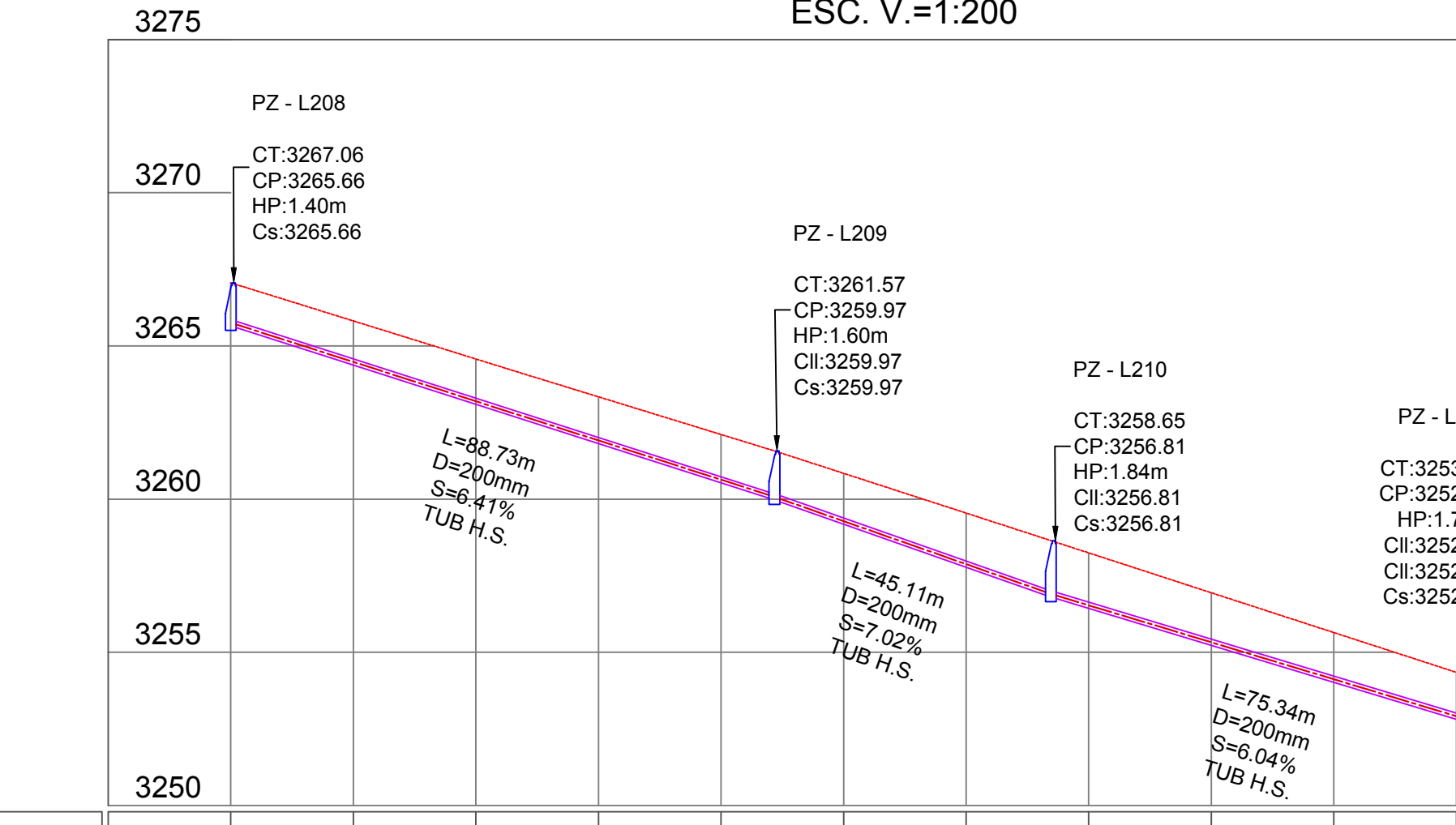


**PERFIL LONGITUDINAL ESC. H.=1:1000 ESC. V.=1:200**



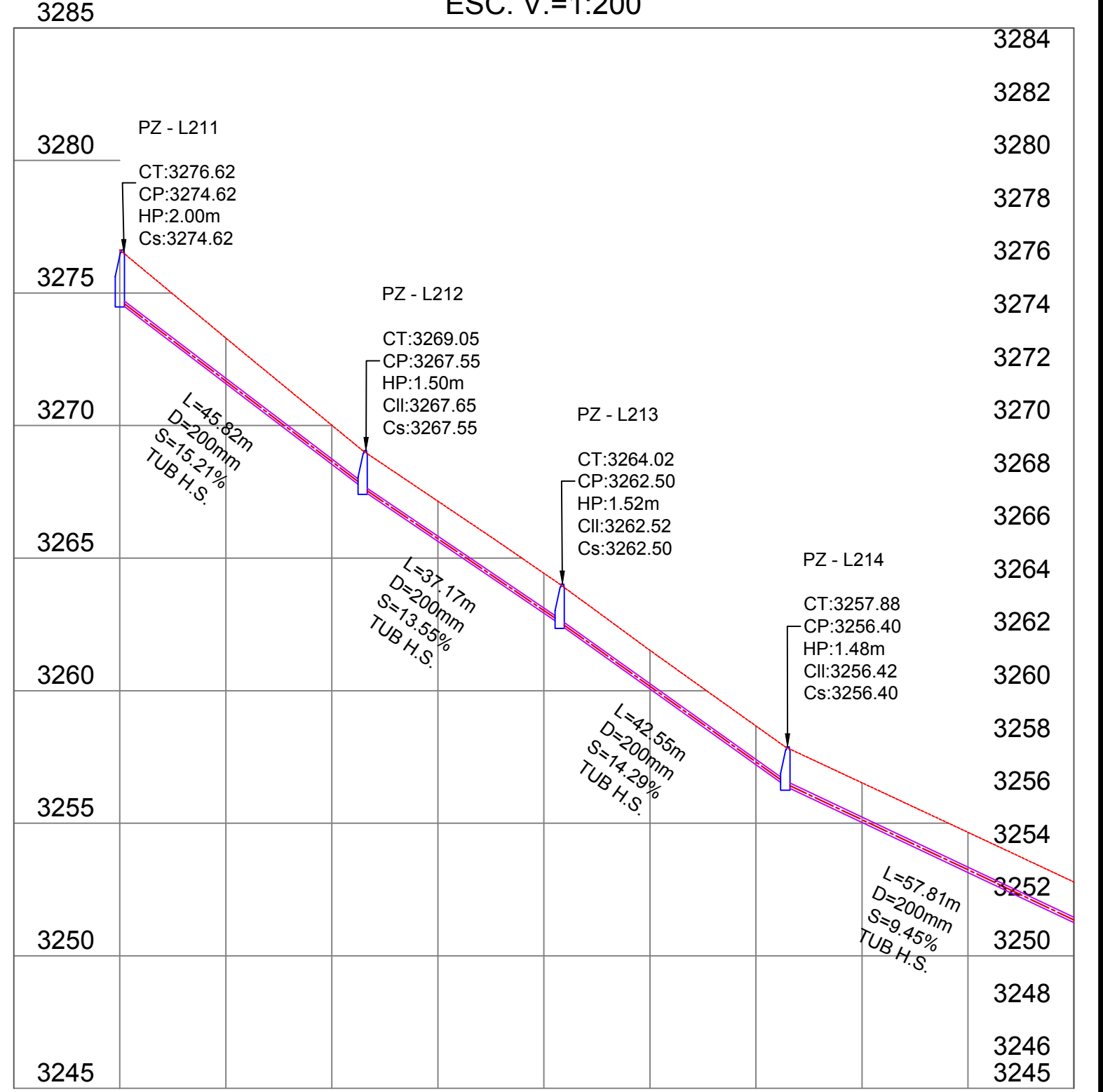
COTA TERRENO	3261.59	3262.87	3268.13	3265.44	3251.16	3253.13	3248.04	3248.83	3244.92	3246.28	3241.16	3243.16	3238.70	3240.05	3235.65	3237.09	3233.02	3234.27	3231.86	3234.44	3230.99	3232.53	3229.99	3231.39	3225.88	3227.43	3224.51	3225.97	3221.35	3223.97
COTA PROYECTO	3261.59	3262.87	3268.13	3265.44	3251.16	3253.13	3248.04	3248.83	3244.92	3246.28	3241.16	3243.16	3238.70	3240.05	3235.65	3237.09	3233.02	3234.27	3231.86	3234.44	3230.99	3232.53	3229.99	3231.39	3225.88	3227.43	3224.51	3225.97	3221.35	3223.97
CORTE	1.28	1.25	1.23	1.22	1.36	1.97	1.79	1.37	1.35	1.35	1.44	1.25	1.57	1.54	1.50	1.45	1.25	1.53	1.47	1.51	1.76									
ABSCISA	0+000	0+020	0+040	0+060	0+080	0+100	0+120	0+140	0+160	0+180	0+200	0+220	0+240	0+260	0+280	0+300	0+320	0+340	0+360	0+380										

**PERFIL LONGITUDINAL ESC. H.=1:1000 ESC. V.=1:200**



COTA TERRENO	3266.66	3267.06	3265.66	3263.48	3263.48	3263.34	3262.11	3260.84	3260.54	3258.25	3256.81	3255.64	3254.02	3253.64	3252.81	3254.35
COTA PROYECTO	3266.66	3267.06	3265.66	3263.48	3263.48	3263.34	3262.11	3260.84	3260.54	3258.25	3256.81	3255.64	3254.02	3253.64	3252.81	3254.35
CORTE	1.40	1.44	1.48	1.53	1.58	1.66	1.77	1.81	1.72	1.62	1.53					
ABSCISA	0+000	0+020	0+040	0+060	0+080	0+100	0+120	0+140	0+160	0+180	0+200	0+220				

**PERFIL LONGITUDINAL ESC. H.=1:1000 ESC. V.=1:200**



COTA TERRENO	3274.62	3276.62	3273.30	3270.01	3267.15	3264.45	3262.52	3260.07	3257.21	3258.87	3255.03	3256.53	3253.14	3254.96
COTA PROYECTO	3274.62	3276.62	3273.30	3270.01	3267.15	3264.45	3262.52	3260.07	3257.21	3258.87	3255.03	3256.53	3253.14	3254.96
CORTE	2.00	1.72	1.47	1.51	1.51	1.45	1.46	1.49	1.51					
ABSCISA	0+000	0+020	0+040	0+060	0+080	0+100	0+120	0+140	0+160					

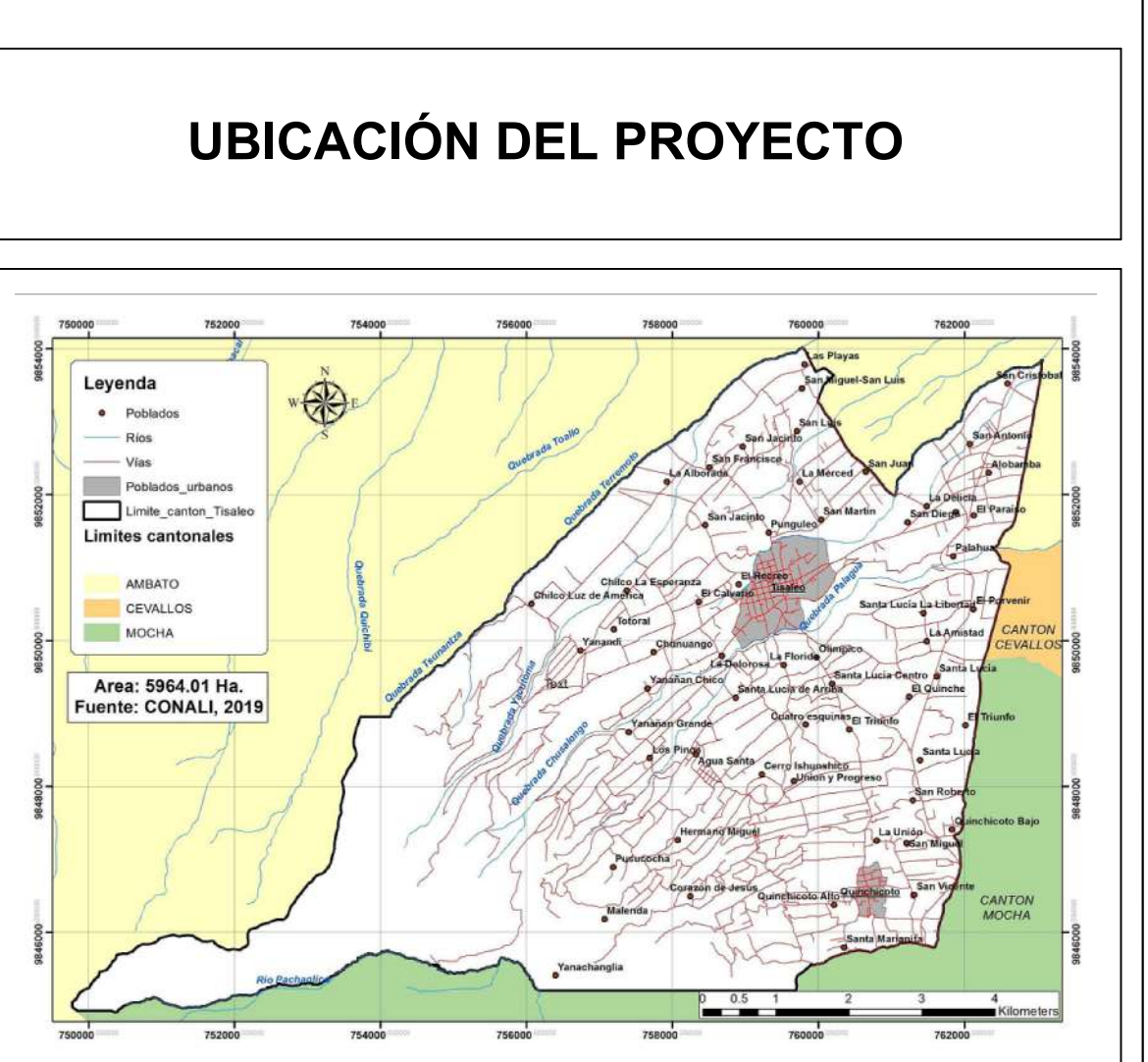
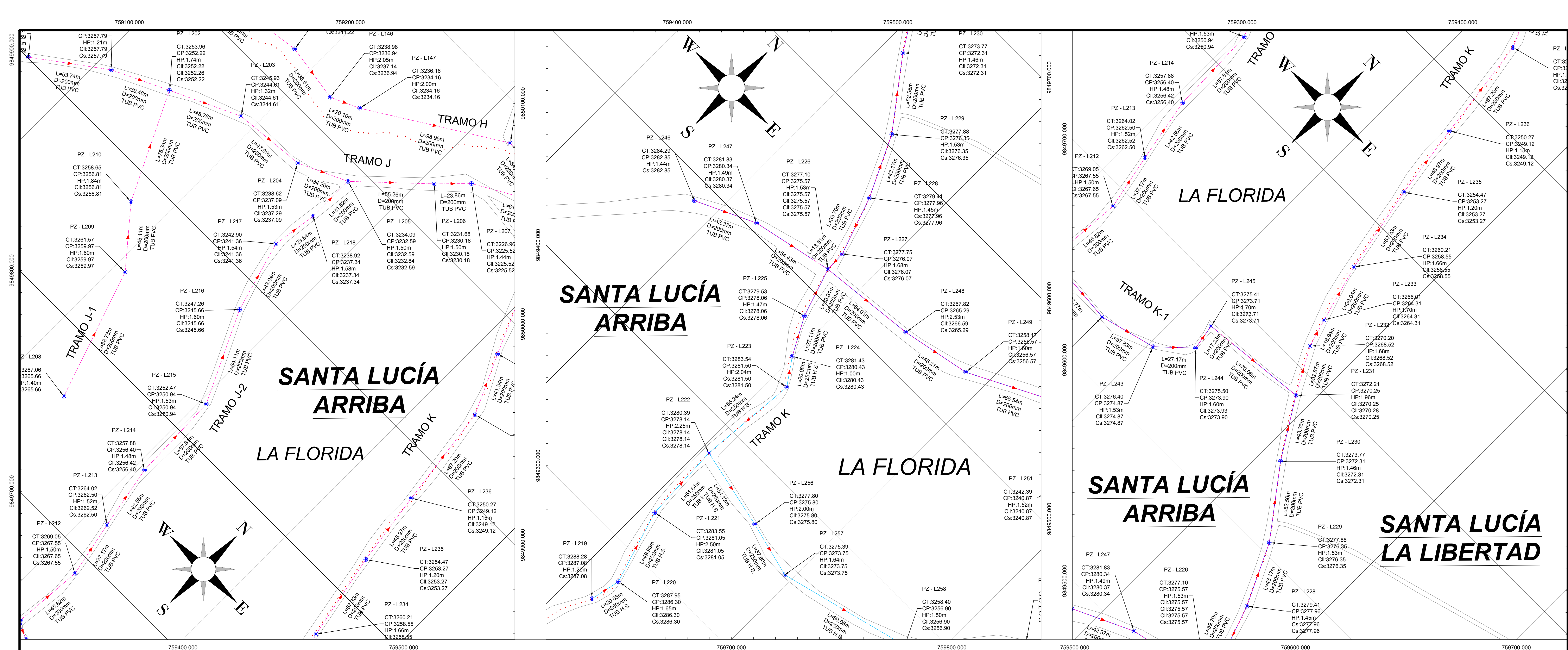
**G.A.D. MUNICIPAL DEL CANTON TISALEO**

“CATASTRO DE LOS SISTEMAS DE ALCANTARILLADO SANITARIO A TRAVÉS DE LA GEOREFERENCIACIÓN Y DIGITALIZACIÓN PARA MEJORAR LA CALIDAD DE INFORMACIÓN SANITARIA DE LA PARROQUIA URBANA TISALEO Y CASERIOS SAN LUIS, SAN FRANCISCO, SAN JUAN, SAN DIEGO, ALCAIBRA, SANTA LUCÍA LIBERTAD, SANTA LUCÍA-CENTRO, SANTA LUCÍA ARRIBA, EL CALVARIO DEL CANTÓN TISALEO, PROVINCIA DE TUNGURAHUA”

CONTIENE:  
 RED DE ALCANTARILLADO SANITARIO SANTA LUCÍA - TRAMO J-1.-J-2  
 BARRIO LA FLORIDA

PROVINCIA: TUNGURAHUA CANTÓN: TISALEO SECTOR: SANTA LUCÍA ARRIBA  
 FECHA: 11/09/2022 ESCALA: 1:1000  
 ELABORADO POR: REVISADO POR: APROBADO POR: LÁMINA: TOTAL LÁMINAS  
 Eglis Tarma Bonita Testa Ing. Galo Nuñez Tutor Ing. Galo Nuñez Tutor 40





### DATOS GEOGRÁFICOS

**DATUM:** WGS84 ZONA 17S

**COORDENADAS UTM:**  
759353.24 m E  
9850780.17 m S

**ALTURA REFERENCIAL:**  
3249 m

### SIMBOLOGÍA

TUBERÍA PVC D = 200mm

TUBERÍA H.S. D = 250mm

POZO DE REVISIÓN

PERFIL DEL TERRENO

CALLES / VÍAS

LÍMITES TERRITORIALES

L LONGITUD DEL TRAMO  
D / Ø DIÁMETRO DE TUBERÍA  
S GRADIENTE HIDRÁULICA  
CT COTA TERRENO  
CP COTA PROYECTO  
CII COTA DE LLEGADA  
Cs COTA DE SALIDA  
HP ALTURA DE POZO

#### RED DE ALCANTARILLADO SANITARIO SANTA LUCÍA

POZO	ESTE (m)	NORTE (m)	C. TERRENO (m)	C. PROYECTO (m)	C. LEGADA (m)	C. SALIDA (m)
PZ-100	759008.47	984900.41	3250.50	3250.50	3250.50	3250.50
PZ-101	759145.40	984900.41	3250.50	3250.50	3250.50	3250.50
PZ-102	759282.40	984900.41	3250.50	3250.50	3250.50	3250.50
PZ-103	759419.40	984900.41	3250.50	3250.50	3250.50	3250.50
PZ-104	759556.40	984900.41	3250.50	3250.50	3250.50	3250.50
PZ-105	759693.40	984900.41	3250.50	3250.50	3250.50	3250.50
PZ-106	759830.40	984900.41	3250.50	3250.50	3250.50	3250.50
PZ-107	759967.40	984900.41	3250.50	3250.50	3250.50	3250.50
PZ-108	760104.40	984900.41	3250.50	3250.50	3250.50	3250.50
PZ-109	760241.40	984900.41	3250.50	3250.50	3250.50	3250.50
PZ-110	760378.40	984900.41	3250.50	3250.50	3250.50	3250.50

#### PERFIL LONGITUDINAL ESC. H.=1:1000 ESC. V.=1:200

ABSCISA	COTA TERRENO	COTA PROYECTO	CORTE
0+180	3252.78	3251.25	1.53
0+200	3249.57	3249.57	1.56
0+220	3247.92	3247.92	1.59
0+240	3246.27	3246.27	1.60
0+260	3244.54	3244.54	1.56
0+280	3242.75	3242.75	1.54
0+300	3240.75	3240.75	1.55
0+320	3238.03	3238.03	1.57
0+340	3235.22	3235.22	1.23

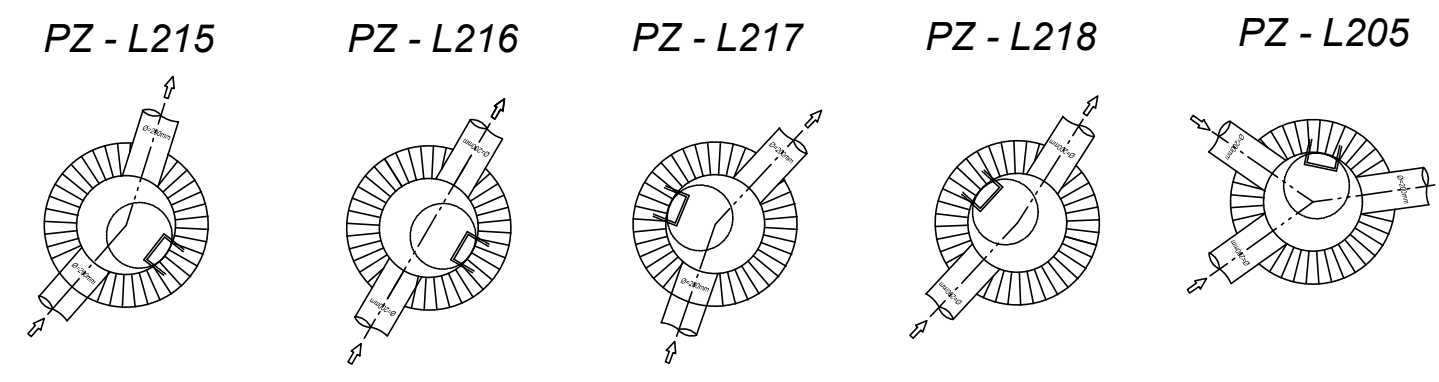
#### PERFIL LONGITUDINAL ESC. H.=1:1000 ESC. V.=1:200

ABSCISA	COTA TERRENO	COTA PROYECTO	CORTE
0+180	3285.22	3281.15	2.07
0+200	3280.80	3279.29	1.36
0+220	3279.29	3279.29	1.21
0+240	3277.62	3277.62	1.37
0+260	3276.12	3276.12	1.14
0+280	3274.64	3274.64	1.66
0+300	3273.06	3273.06	1.57
0+320	3271.48	3271.48	1.45

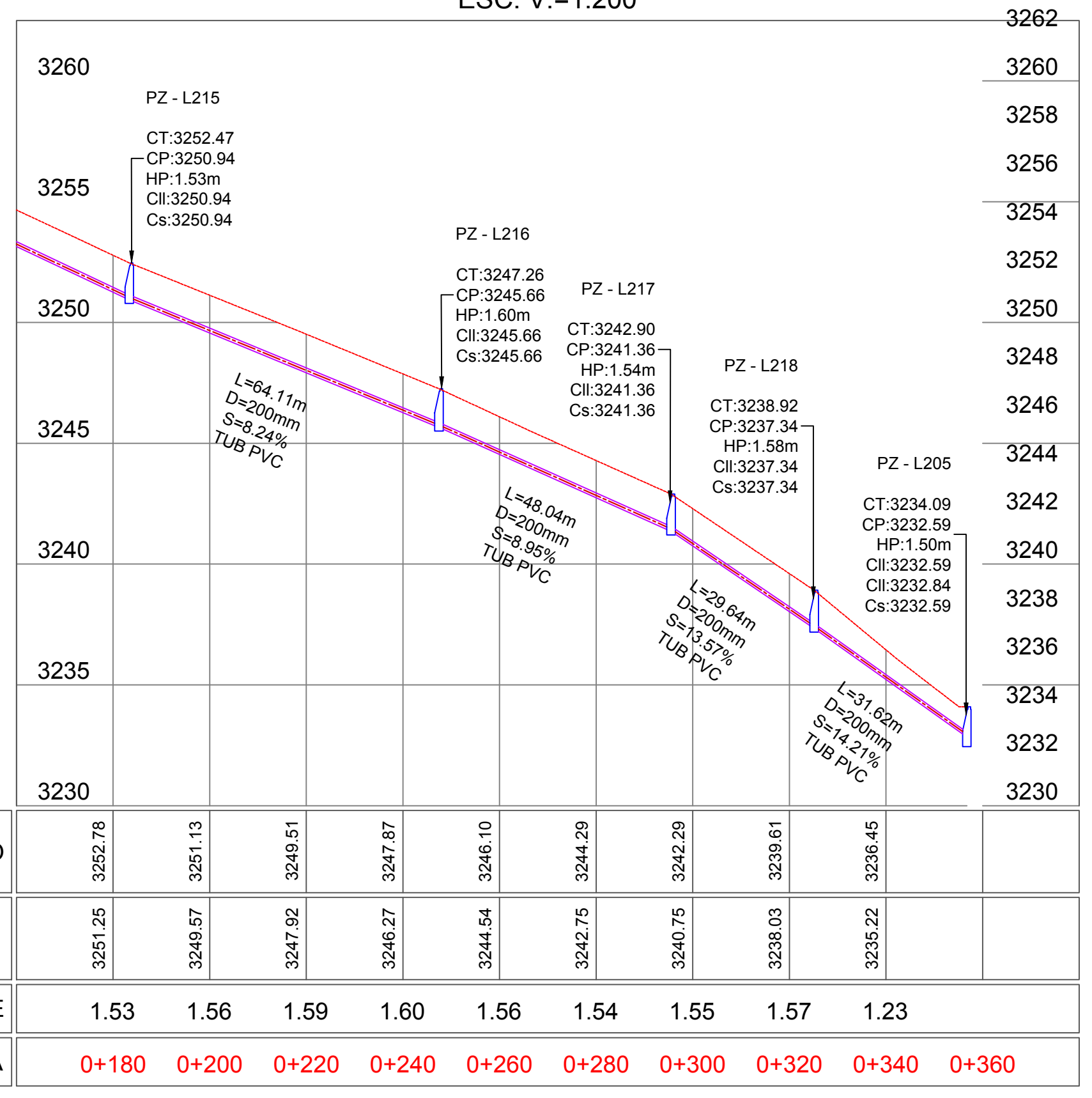
#### PERFIL LONGITUDINAL ESC. H.=1:1000 ESC. V.=1:200

ABSCISA	COTA TERRENO	COTA PROYECTO	CORTE
0+320	3273.93	3273.93	1.45
0+340	3272.71	3272.71	1.47
0+360	3271.01	3271.01	1.52
0+380	3270.00	3270.00	1.50
0+400	3270.96	3270.96	1.47
0+420	3272.13	3272.13	1.50
0+440	3271.18	3271.18	1.72
0+460	3272.90	3272.90	1.98
0+480	3272.21	3272.21	1.91
0+500	3271.09	3271.09	1.77
0+520	3268.02	3268.02	1.69

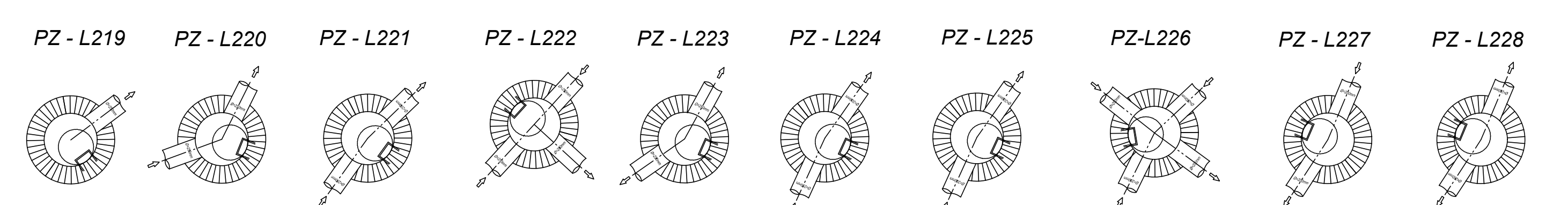
### DETALLES POZOS



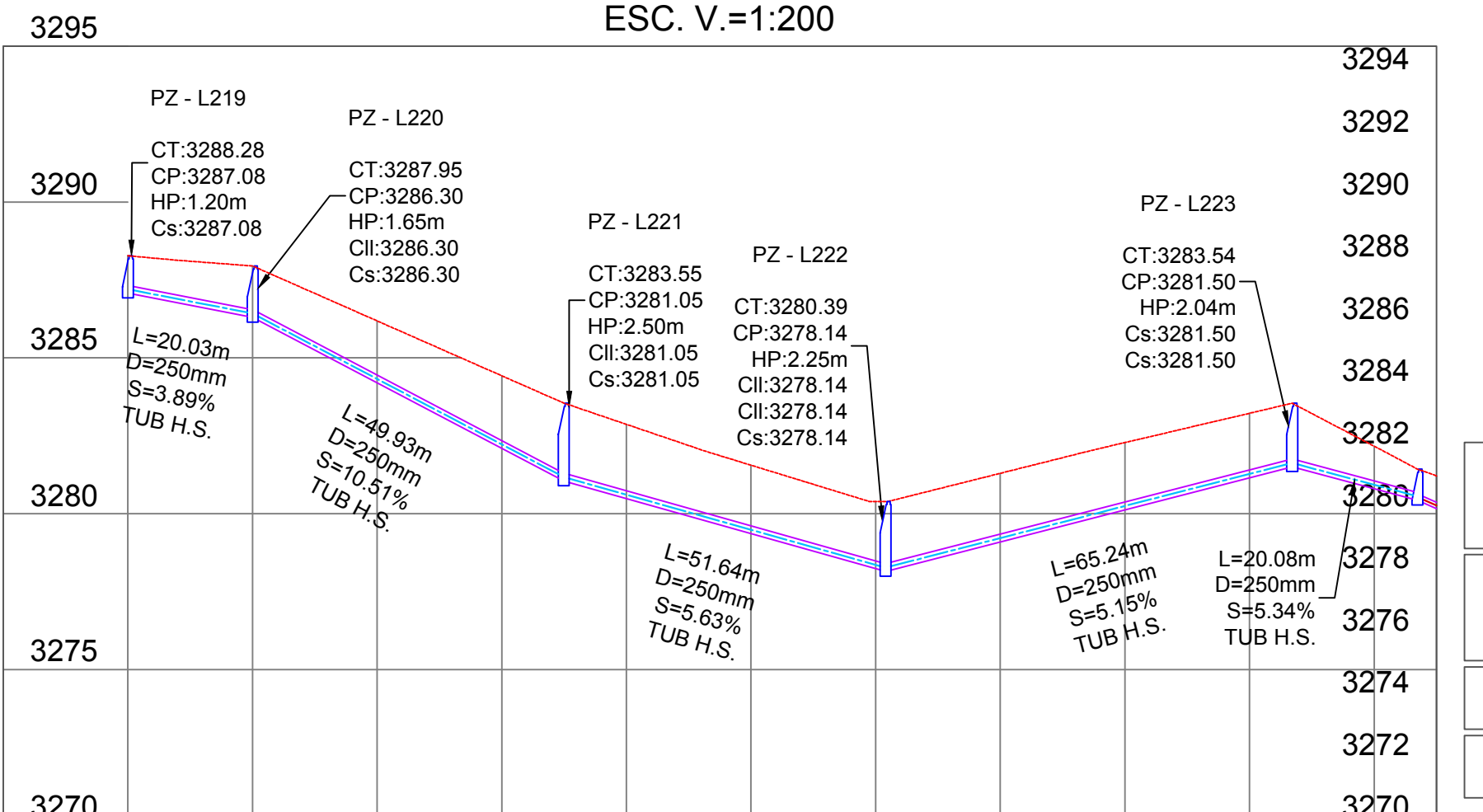
### PERFIL LONGITUDINAL ESC. H.=1:1000 ESC. V.=1:200



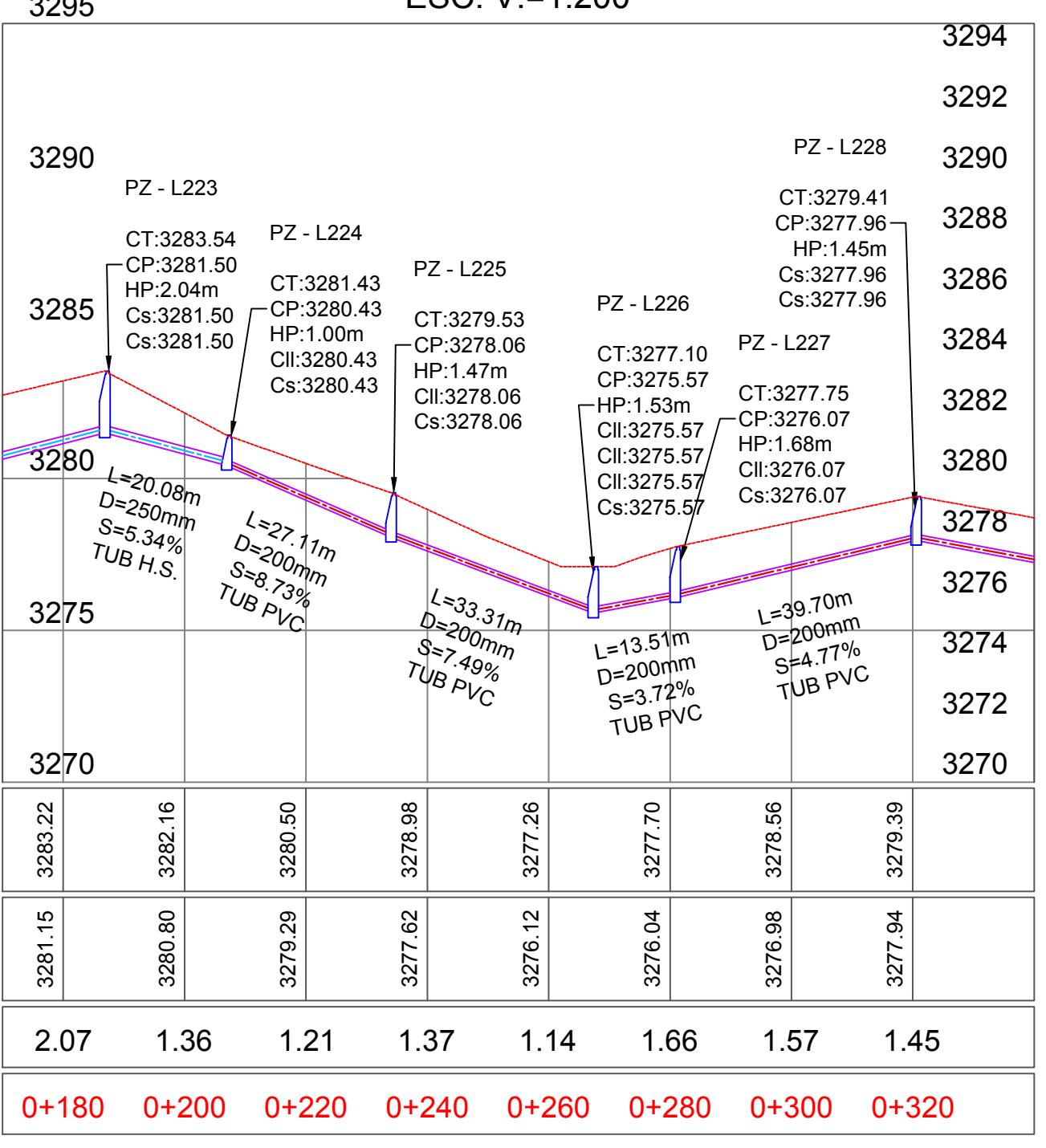
### DETALLES POZOS



### PERFIL LONGITUDINAL ESC. H.=1:1000 ESC. V.=1:200



### PERFIL LONGITUDINAL ESC. H.=1:1000 ESC. V.=1:200



### G.A.D. MUNICIPAL DEL CANTÓN TISALEO

“CATÁSTRO DE LOS SISTEMAS DE ALCANTARILLADO A TRAVÉS DE LA GEOREFERENCIACIÓN Y DIGITALIZACIÓN PARA MEJORAR LA CALIDAD DE INFORMACIÓN SANITARIA DE LA PARROQUIA URBANA TISALEO Y CASERIOS SAN LUIS, SAN FRANCISCO, SAN JUAN, SAN DIEGO, ALDAMA, SANTA LUCÍA LA LIBERTAD, SANTA LUCÍA-CENTRO, SANTA LUCÍA ARRIBA, EL CALVARIO DEL CANTÓN TISALEO, PROVINCIA DE TUNGURAHUA”

CONTENIDO: RED DE ALCANTARILLADO SANITARIO SANTA LUCÍA - TRAMO J-1, J-2, K BARRIO: LA FLORIDA

PROVINCIA: TUNGURAHUA CANTÓN: TISALEO SECTOR: SANTA LUCÍA ARRIBA

UNIVERSIDAD TÉCNICA DE AMBATO FACULTAD DE INGENIERÍA CIVIL Y MECÁNICA CÁTEDRA DE INGENIERÍA CIVIL

FECHA: 11 DE SEPTIEMBRE DE 2022

ELABORADO POR: Egda Tamara Bonita Testa

REVISADO POR: Ing. Galdino Tobar Tutor

APROBADO POR: Ing. Galdino Tobar Tutor

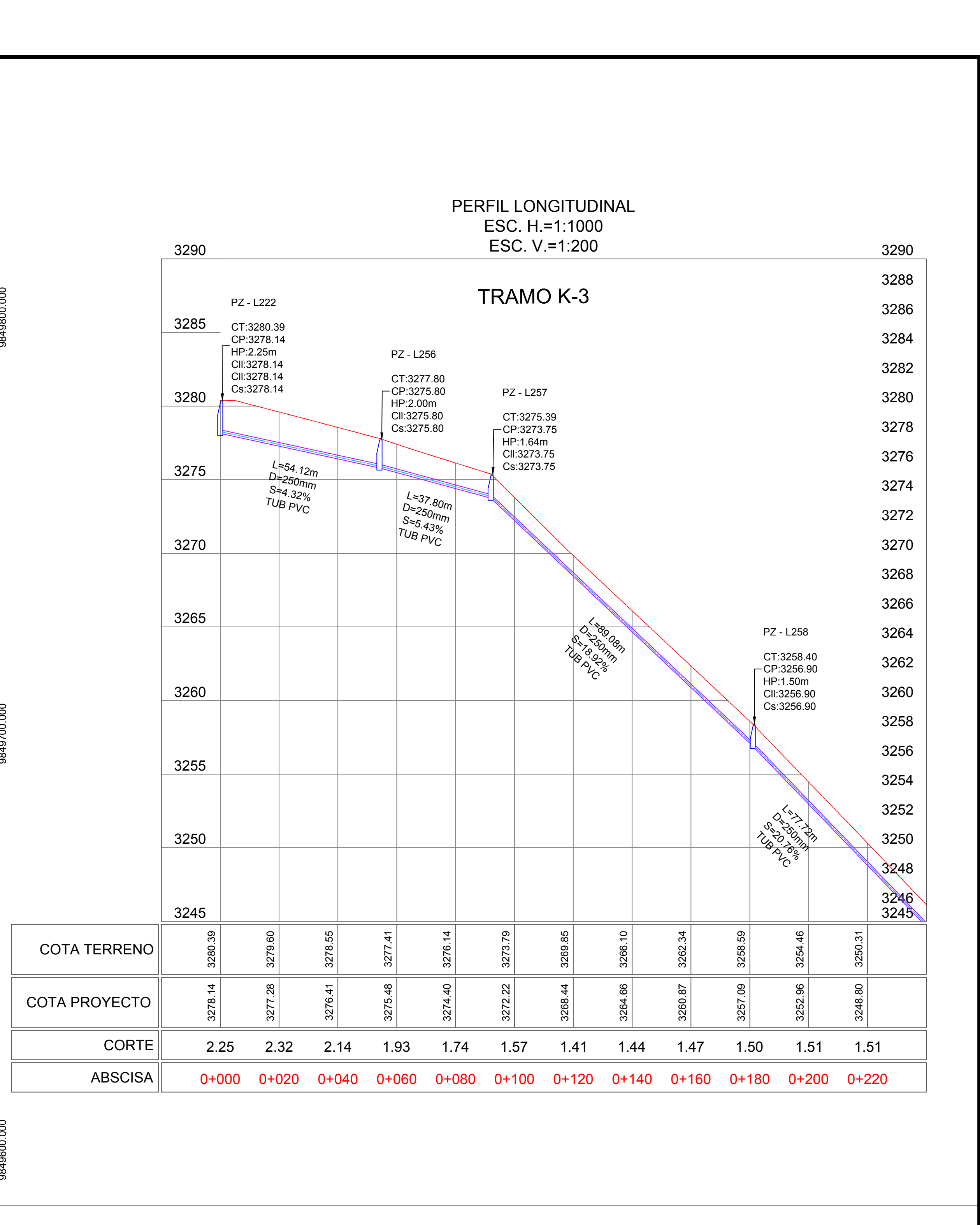
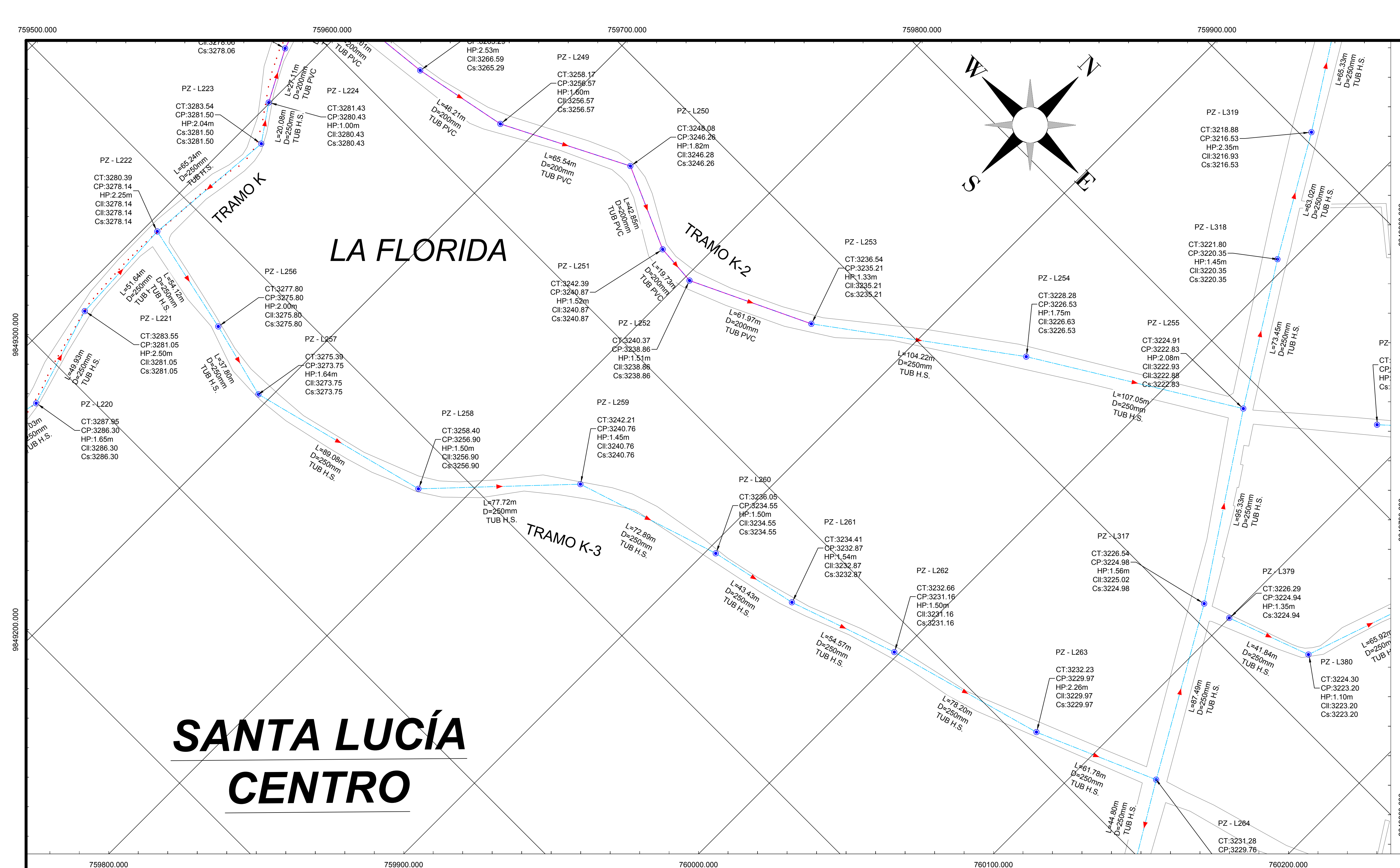
LÁMINA: 14

TOTAL LÁMINAS: 40









**UBICACIÓN DEL PROYECTO**

**DATOS GEOGRÁFICOS**

DATUM: WGS84 ZONA 17S

COORDENADAS UTM: 759353.24 m E, 9850780.17 m S

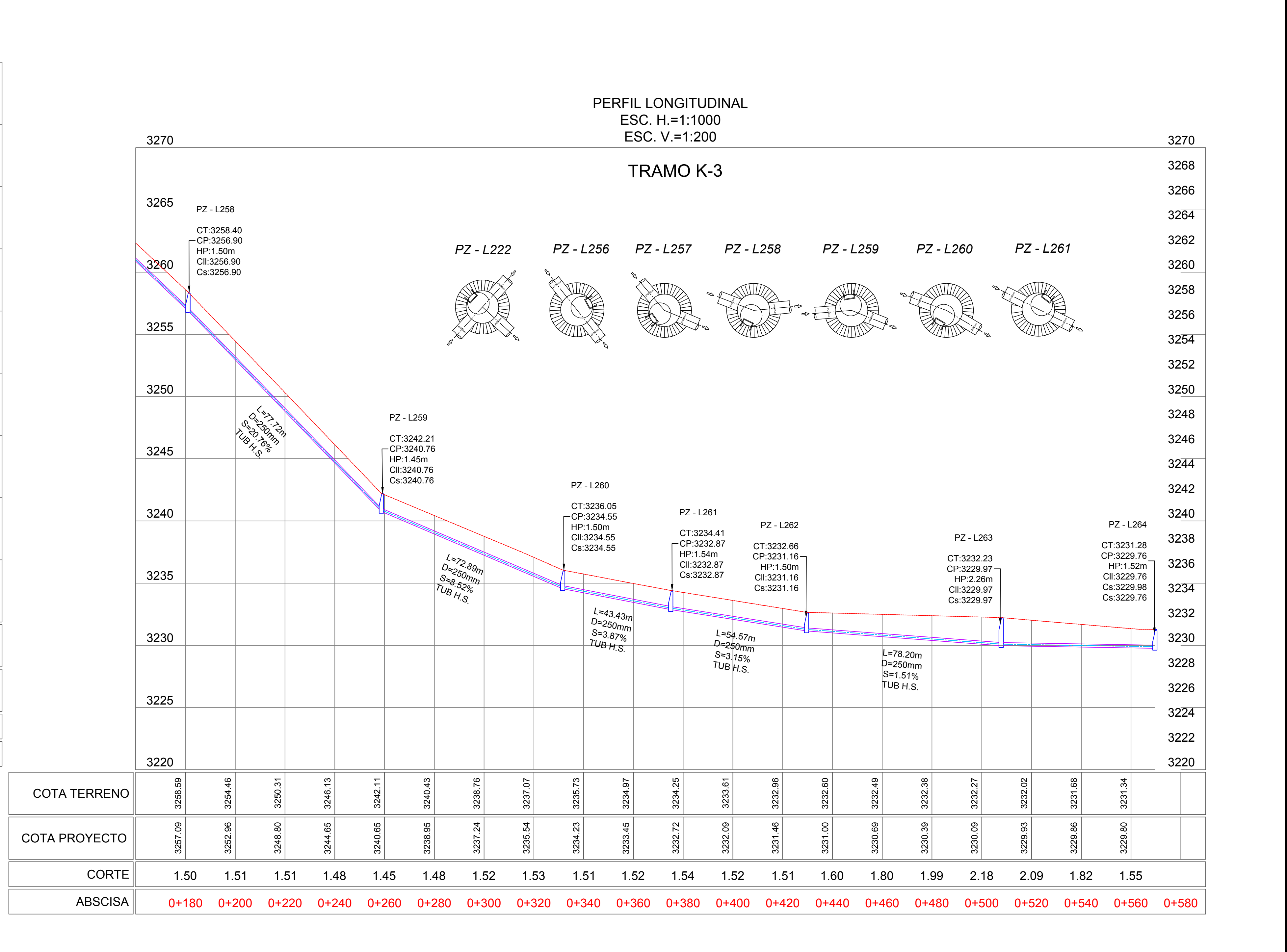
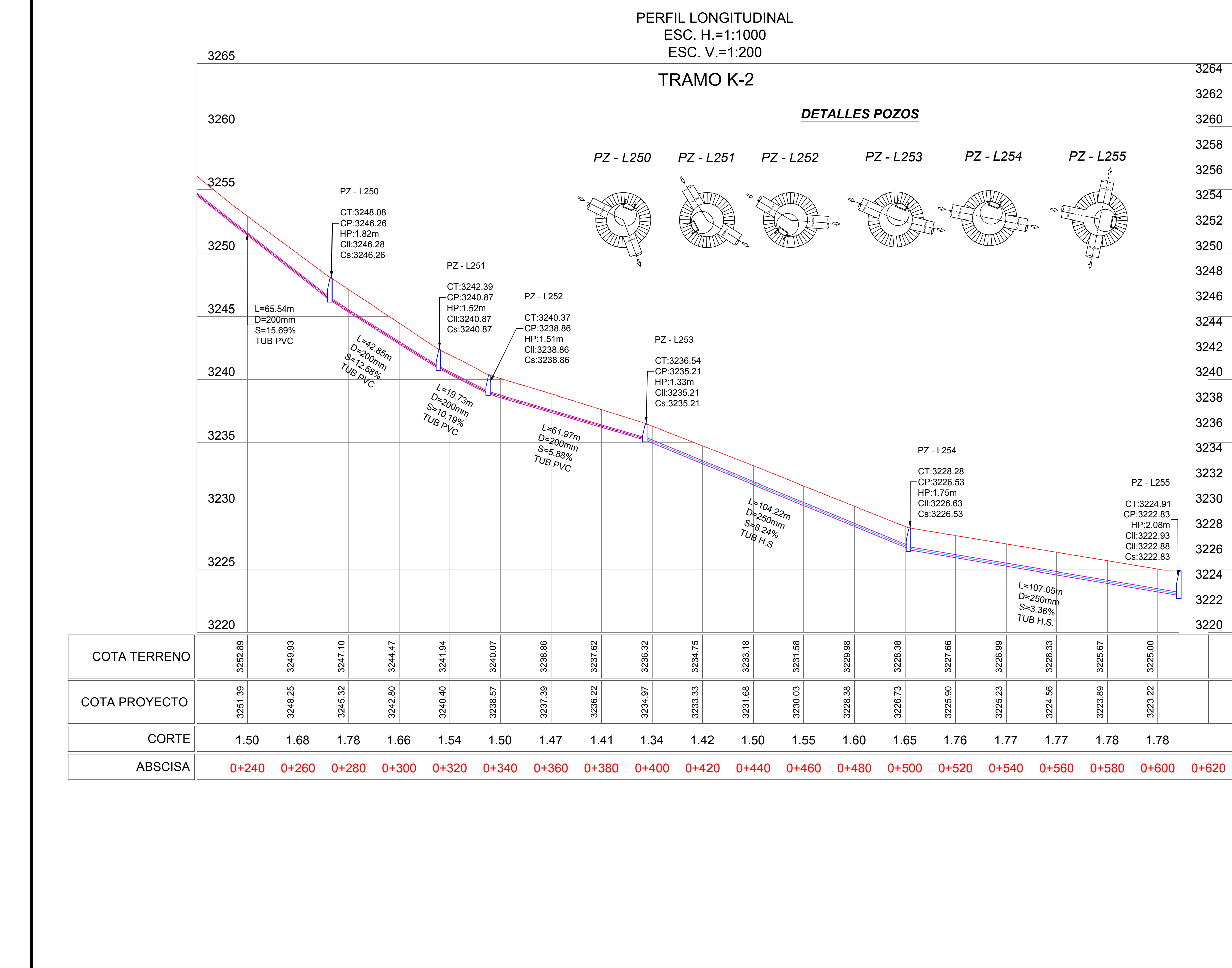
ALTURA REFERENCIAL: 3249 m

**SIMBOLOGÍA**

- TUBERÍA PVC D = 200mm
- TUBERÍA H.S. D = 250mm
- POZO DE REVISIÓN
- PERFIL DEL TERRENO
- CALLES / VÍAS
- LÍMITES TERRITORIALES

**LEGENDA**

- L LONGITUD DEL TRAMO
- D / Ø DIÁMETRO DE TUBERÍA
- S GRADIENTE HIDRÁULICA
- CP COTA TERRENO
- CII COTA DE LLEGADA
- Cs COTA DE SALIDA
- HP ALTURA DE POZO



**REO DE ALCANTARILLADO SANITARIO SANTA LUCÍA**

**SANTA LUCÍA CENTRO - LA FLORIDA**

POZO	ESTE (m)	NORTE (m)	C. TERRENO (m)	C. LLEGADA (m)	C. SALIDA (m)
PZ-L219	759618.41	9849280.64	3288.28	-	3287.08
PZ-L220	759622.60	9849280.21	3287.95	3286.80	3286.30
PZ-L221	759607.60	9849327.90	3283.55	3281.05	3281.05
PZ-L222	759605.50	9849379.49	3280.39	3278.14	3278.14
PZ-L223	759611.02	9849444.50	3283.54	-	3281.50
PZ-L224	759609.07	9849460.39	3281.43	3280.43	3280.43
PZ-L225	759686.79	9849484.90	3279.53	3278.06	3278.06
PZ-L226	759678.39	9849516.55	3277.10	3275.57	3275.57
PZ-L227	759692.93	9849567.56	3279.41	-	3277.96
PZ-L228	759675.92	9849533.34	3277.75	3276.07	3276.07
PZ-L229	759676.39	9849516.55	3277.10	3275.57	3275.57
PZ-L230	759662.93	9849567.56	3279.41	-	3277.96
PZ-L231	759644.30	9849606.50	3277.88	3276.35	3276.35
PZ-L232	759612.56	9849648.40	3273.77	3272.31	3272.31
PZ-L233	759489.67	9849685.22	3272.21	3270.25	3270.25
PZ-L234	759473.78	9849714.00	3270.20	3268.52	3268.52
PZ-L235	759468.34	9849732.14	3268.01	3266.31	3266.31
PZ-L236	759457.91	9849769.77	3266.21	3264.50	3264.50
PZ-L237	759446.63	9849825.97	3264.47	3262.27	3262.27
PZ-L238	759439.53	9849874.43	3262.27	3260.12	3260.12
PZ-L239	759431.24	9849918.78	3260.12	3258.05	3258.05
PZ-L240	759422.89	9849961.13	3258.05	3256.10	3256.10
PZ-L241	759419.95	9849978.10	3256.10	3254.17	3254.17
PZ-L242	759418.85	9849978.10	3254.17	3252.17	3252.17
PZ-L243	759328.80	9849936.02	3252.17	3250.34	3250.34
PZ-L244	759306.44	9849932.98	3250.34	3248.57	3248.57
PZ-L245	759282.89	9849961.13	3248.57	3246.85	3246.85
PZ-L246	759249.89	9849978.10	3246.85	3245.17	3245.17
PZ-L247	759218.85	9849978.10	3244.17	3242.57	3242.57
PZ-L248	759184.80	9849932.98	3242.57	3240.99	3240.99
PZ-L249	759152.56	9849892.07	3240.99	3239.44	3239.44
PZ-L250	759124.31	9849852.97	3239.44	3237.92	3237.92
PZ-L251	759092.93	9849809.95	3237.92	3236.44	3236.44
PZ-L252	759062.93	9849769.77	3236.44	3234.99	3234.99
PZ-L253	759032.93	9849729.59	3234.99	3233.57	3233.57
PZ-L254	759002.93	9849689.41	3233.57	3232.17	3232.17
PZ-L255	758972.93	9849649.23	3231.76	3230.79	3230.79
PZ-L256	758942.93	9849609.05	3230.39	3229.44	3229.44
PZ-L257	758912.93	9849568.87	3229.01	3228.11	3228.11
PZ-L258	758882.93	9849528.69	3227.63	3226.80	3226.80
PZ-L259	758852.93	9849488.51	3226.25	3225.51	3225.51
PZ-L260	758822.93	9849448.33	3224.87	3224.22	3224.22
PZ-L261	758792.93	9849408.15	3223.49	3222.91	3222.91
PZ-L262	758762.93	9849367.97	3222.11	3221.61	3221.61
PZ-L263	758732.93	9849327.79	3220.73	3220.31	3220.31
PZ-L264	758702.93	9849287.61	3219.35	3218.93	3218.93

**G.A.D. MUNICIPAL DEL CANTÓN TISALEO**

"CATASTRO DE LOS SISTEMAS DE ALCANTARILLADO A TRAVÉS DE LA GEOREFERENCIACIÓN Y DIGITALIZACIÓN PARA MEJORAR LA CALIDAD DE INFORMACIÓN SANITARIA DE LA PARROQUIA URBANA TISALEO Y CASERIOS SAN LUIS, SAN FRANCISCO, SAN JUAN, SAN DIEGO, ALDABAMA, SANTA LUCÍA LIBERTAD, SANTA LUCÍA-CENTRO, SANTA ARRIBA, EL CALVARIO DEL CANTÓN TISALEO, PROVINCIA DE TUNGURAHUA"

CONTIENE: REO DE ALCANTARILLADO SANITARIO SANTA LUCÍA - TRAMO K-1, K-2, K-3. BARRIO: LA FLORIDA

PROVINCIA: TUNGURAHUA CANTÓN: TISALEO SECTOR: SANTA LUCÍA CENTRO

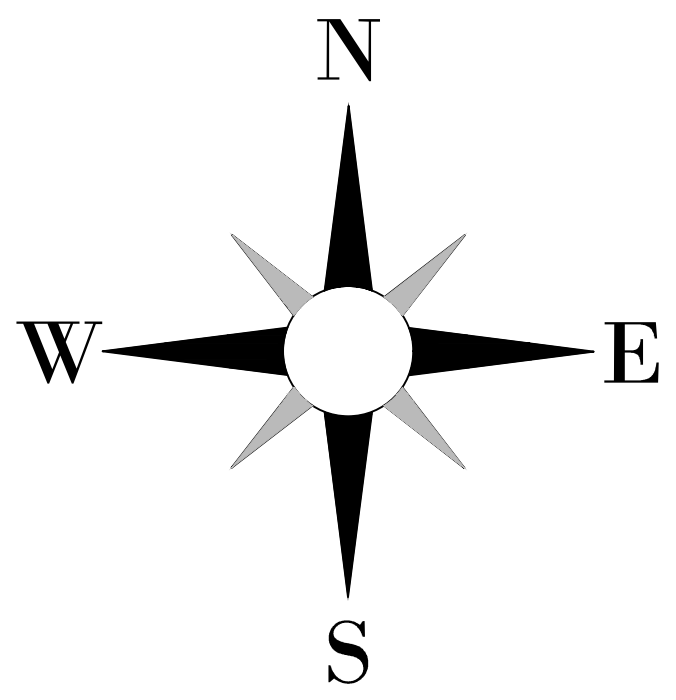
FECHA: SEPTIEMBRE, 2022 ESCALA: 1:1000

ELABORADO POR: REVISADO POR: APROBADO POR: LÁMINA: LÁMINA - 16

Ing. Gato Núñez Tutor Ing. Gato Núñez Tutor TOTAL LÁMINAS: 40

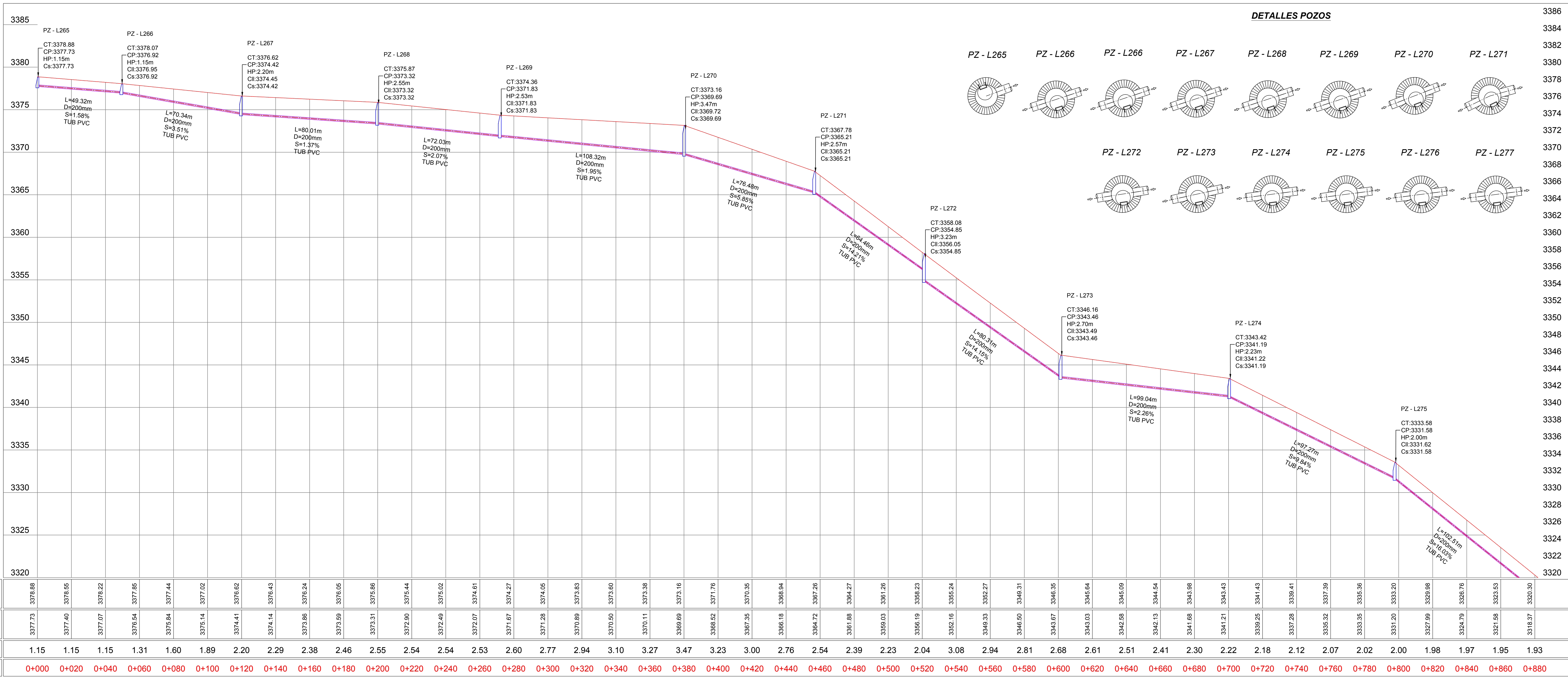


# SANTA LUCÍA ARRIBA

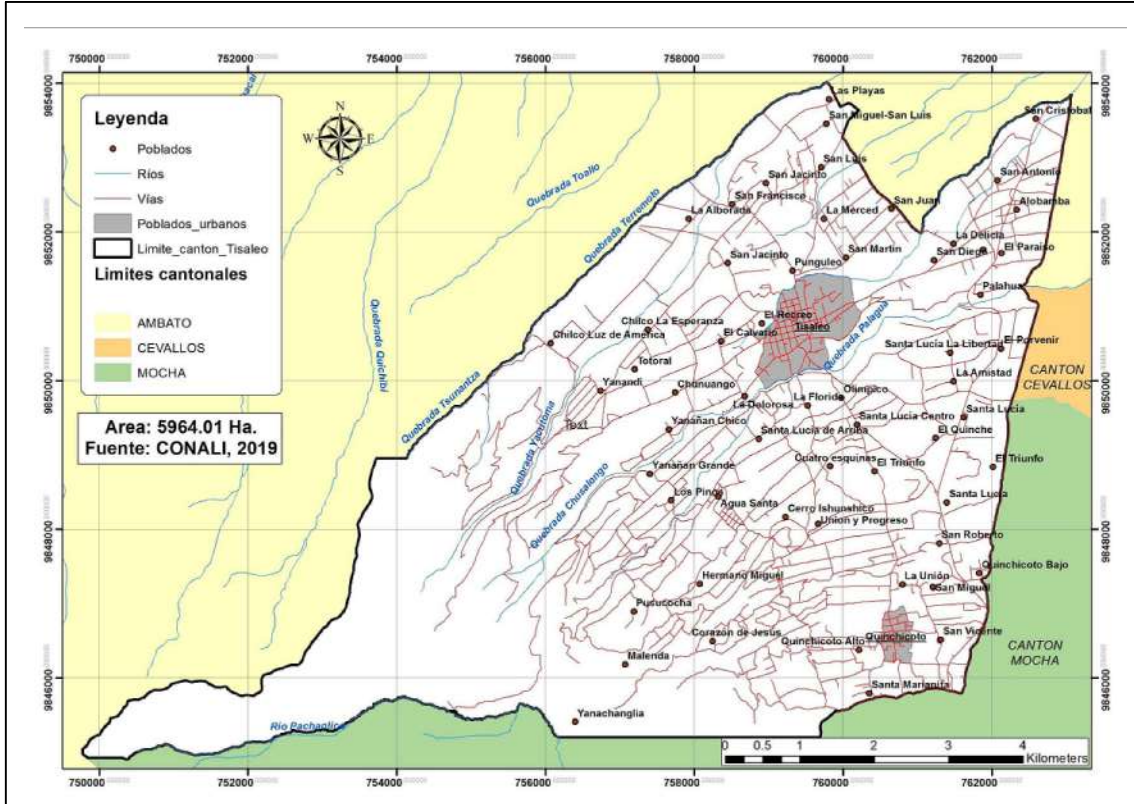


## UNIÓN Y PROGRESO

PERFIL LONGITUDINAL  
ESC. H.=1:1000  
ESC. V.=1:200



### UBICACIÓN DEL PROYECTO



### DATOS GEOGRÁFICOS

**DATUM:** WGS84 ZONA 17S  
**COORDENADAS UTM:** 759353.24 m E  
9850780.17 m S  
**ALTURA REFERENCIAL:** 3249 m

### SIMBOLOGÍA

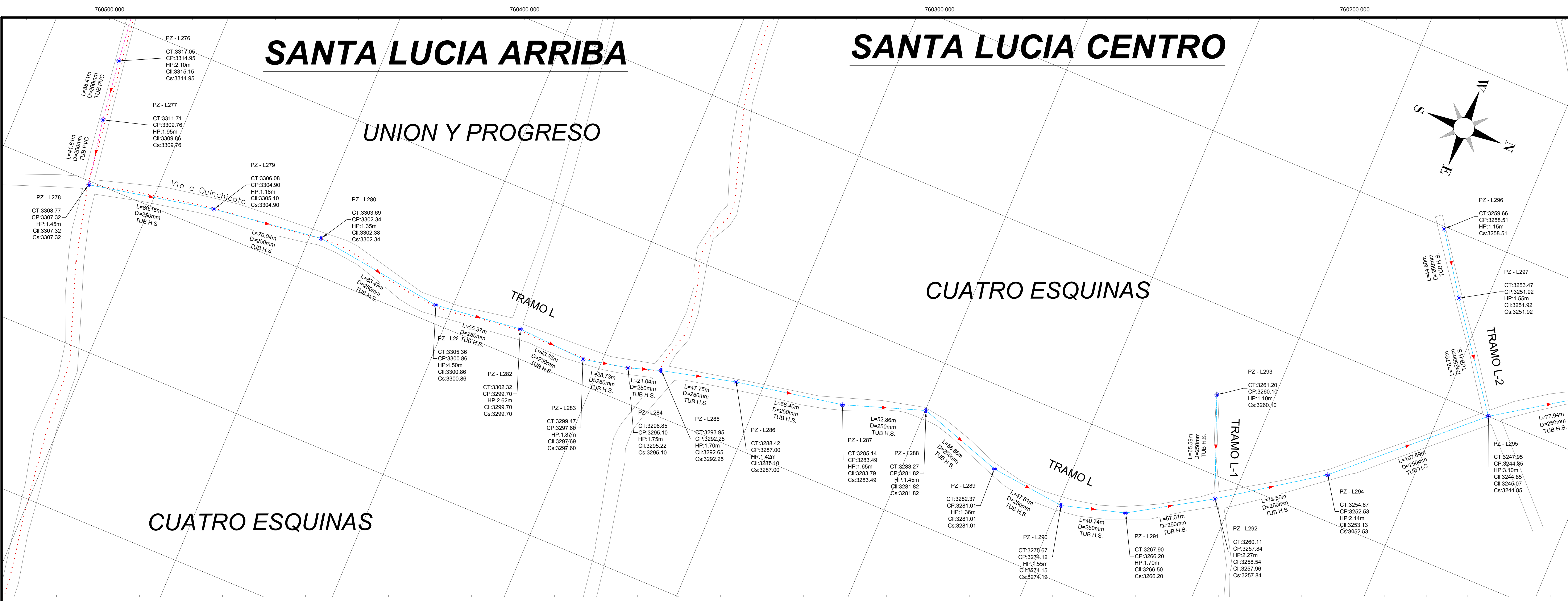
- TUBERÍA PVC D = 200mm
- TUBERÍA H.S. D = 250mm
- POZO DE REVISIÓN
- PERFIL DEL TERRENO
- CALLES / VÍAS
- LÍMITES TERRITORIALES

- L LONGITUD DEL TRAMO
- D / Ø DIÁMETRO DE TUBERÍA
- S GRADIENTE HIDRÁULICA
- CT COTA TERRENO
- CP COTA PROYECTO
- CII COTA DE LLEGADA
- Cs COTA DE SALIDA
- HP ALTURA DE POZO

**RED DE ALCANTARILLADO SANITARIO SANTA LUCÍA**  
**SANTA LUCÍA ARRIBA - UNIÓN Y PROGRESO**

POZO	ESTE (m)	NORTE (m)	C. TERRENO (m)	C. LLEGADA (m)	C. SALIDA (m)
PZ-L265	759359.91	9847783.13	3378.88	-	3377.73
PZ-L266	759367.57	9847795.81	3378.07	3376.95	3376.92
PZ-L267	759375.23	9847808.49	3377.26	3376.22	3375.42
PZ-L268	759382.89	9847821.17	3376.45	3375.54	3374.42
PZ-L269	759390.55	9847833.85	3375.64	3374.84	3373.32
PZ-L270	759398.21	9847846.53	3374.83	3374.14	3372.20
PZ-L271	759405.87	9847859.21	3374.02	3373.32	3371.08
PZ-L272	759413.53	9847871.89	3373.21	3372.51	3369.96
PZ-L273	759421.19	9847884.57	3372.40	3371.70	3368.84
PZ-L274	759428.85	9847897.25	3371.59	3370.89	3367.72
PZ-L275	759436.51	9847910.93	3370.78	3370.08	3366.60
PZ-L276	759444.17	9847923.61	3369.97	3369.27	3365.48
PZ-L277	759451.83	9847936.29	3369.16	3368.46	3364.36
PZ-L278	759459.49	9847948.97	3368.35	3367.65	3363.24
PZ-L279	759467.15	9847961.65	3367.54	3366.84	3362.12
PZ-L280	759474.81	9847974.33	3366.73	3366.03	3361.00
PZ-L281	759482.47	9847987.01	3365.92	3365.22	3359.88
PZ-L282	759490.13	9848000.69	3365.11	3364.41	3358.76
PZ-L283	759497.79	9848013.37	3364.30	3363.60	3357.64
PZ-L284	759505.45	9848026.05	3363.49	3362.79	3356.52
PZ-L285	759513.11	9848038.73	3362.68	3361.98	3355.40
PZ-L286	759520.77	9848051.41	3361.87	3361.17	3354.28
PZ-L287	759528.43	9848064.09	3361.06	3360.36	3353.16
PZ-L288	759536.09	9848076.77	3360.25	3359.55	3352.04
PZ-L289	759543.75	9848089.45	3359.44	3358.74	3350.92
PZ-L290	759551.41	9848102.13	3358.63	3357.93	3349.80
PZ-L291	759559.07	9848114.81	3357.82	3357.12	3348.68
PZ-L292	759566.73	9848127.49	3357.01	3356.31	3347.56
PZ-L293	759574.39	9848140.17	3356.20	3355.50	3346.44
PZ-L294	759582.05	9848152.85	3355.39	3354.69	3345.32
PZ-L295	759589.71	9848165.53	3354.58	3353.88	3344.20
PZ-L296	759597.37	9848178.21	3353.77	3353.07	3343.08
PZ-L297	759605.03	9848190.89	3352.96	3352.26	3341.96
PZ-L298	759612.69	9848203.57	3352.15	3351.45	3340.84
PZ-L299	759620.35	9848216.25	3351.34	3350.64	3339.72
PZ-L300	759628.01	9848228.93	3350.53	3349.83	3338.60
PZ-L301	759635.67	9848241.61	3349.72	3349.02	3337.48
PZ-L302	759643.33	9848254.29	3348.91	3348.21	3336.36
PZ-L303	759650.99	9848266.97	3348.10	3347.40	3335.24
PZ-L304	759658.65	9848279.65	3347.29	3346.59	3334.12
PZ-L305	759666.31	9848292.33	3346.48	3345.78	3333.00
PZ-L306	759673.97	9848305.01	3345.67	3344.97	3331.88
PZ-L307	759681.63	9848317.69	3344.86	3344.16	3330.76
PZ-L308	759689.29	9848330.37	3344.05	3343.35	3329.64
PZ-L309	759696.95	9848343.05	3343.24	3342.54	3328.52
PZ-L310	759704.61	9848355.73	3342.43	3341.73	3327.40
PZ-L311	759712.27	9848368.41	3341.62	3340.92	3326.28
PZ-L312	759719.93	9848381.09	3340.81	3340.11	3325.16
PZ-L313	759727.59	9848393.77	3340.00	3339.30	3324.04
PZ-L314	759735.25	9848406.45	3339.19	3338.49	3322.92
PZ-L315	759742.91	9848419.13	3338.38	3337.68	3321.80
PZ-L316	759750.57	9848431.81	3337.57	3336.87	3320.68
PZ-L317	759758.23	9848444.49	3336.76	3336.06	3319.56
PZ-L318	759765.89	9848457.17	3335.95	3335.25	3318.44
PZ-L319	759773.55	9848469.85	3335.14	3334.44	3317.32
PZ-L320	759781.21	9848482.53	3334.33	3333.63	3316.20
PZ-L321	759788.87	9848495.21	3333.52	3332.82	3315.08
PZ-L322	759796.53	9848507.89	3332.71	3332.01	3313.96
PZ-L323	759804.19	9848520.57	3331.90	3331.20	3312.84
PZ-L324	759811.85	9848533.25	3331.09	3330.39	3311.72
PZ-L325	759819.51	9848545.93	3330.28	3329.58	3310.60
PZ-L326	759827.17	9848558.61	3329.47	3328.77	3309.48
PZ-L327	759834.83	9848571.29	3328.66	3327.96	3308.36
PZ-L328	759842.49	9848583.97	3327.85	3327.15	3307.24
PZ-L329	759850.15	9848596.65	3327.04	3326.34	3306.12
PZ-L330	759857.81	9848609.33	3326.23	3325.53	3305.00
PZ-L331	759865.47	9848622.01	3325.42	3324.72	3303.88
PZ-L332	759873.13	9848634.69	3324.61	3323.91	3302.76
PZ-L333	759880.79	9848647.37	3323.80	3323.10	3301.64
PZ-L334	759888.45	9848660.05	3322.99	3322.29	3300.52
PZ-L335	759896.11	9848672.73	3322.18	3321.48	3299.40
PZ-L336	759903.77	9848685.41	3321.37	3320.67	3298.28
PZ-L337	759911.43	9848698.09	3320.56	3319.86	3297.16
PZ-L338	759919.09	9848710.77	3319.75	3319.05	3296.04
PZ-L339	759926.75	9848723.45	3318.94	3318.24	3294.92
PZ-L340	759934.41	9848736.13	3318.13	3317.43	3293.80
PZ-L341	759942.07	9848748.81	3317.32	3316.62	3292.68
PZ-L342	759949.73	9848761.49	3316.51	3315.81	3291.56
PZ-L343	759957.39	9848774.17	3315.70	3315.00	3290.44
PZ-L344	759965.05	9848786.85	3314.89	3314.19	3289.32
PZ-L345	759972.71	9848799.53	3314.08	3313.38	3288.20
PZ-L346	759980.37	9848812.21	3313.27	3312.57	3287.08
PZ-L347	759988.03	9848824.89	3312.46	3311.76	3285.96
PZ-L348	759995.69	9848837.57	3311.65	3310.95	3284.84
PZ-L349	760003.35	9848850.25	3310.84	3310.14	3283.72
PZ-L350	760011.01	9848862.93	3310.03	3309.33	3282.60
PZ-L351	760018.67	9848875.61	3309.22	3308.52	3281.48
PZ-L352	760026.33	9848888.29	3308.41	3307.71	3280.36
PZ-L353	760033.99	9848900.97	3307.60	3306.90	3279.24
PZ-L354	760041.65	9848913.65	3306.79	3306.09	3278.12
PZ-L355	760049.31	9848926.33	3305.98	3305.28	3277.00
PZ-L356	760056.97	9848939.01	3305.17	3304.47	3275.88
PZ-L357	760064.63	9848951.69	3304.36	3303.66	3274.76
PZ-L358	760072.29	9848964.37	3303.55	3302.85	3273.64
PZ-L359	760079.95	9848977.05	3302.74	3302.04	3272.52
PZ-L360	760087.61	9848989.73	3301.93	3301.23	3271.40
PZ-L361	760095.27	9849002.41	3301.12	3300.42	3270.28
PZ-L362	760102.93	9849015.09	3300.31	3299.61	3269.16
PZ-L363	760110.59	9849027.77	3299.50	3298.80	3268.04
PZ-L364	760118.25	9849040.45	3298.69	3298.00	3266.92
PZ-L365	760125.91	9849053.13	3297.88	3297.19	3265.80
PZ-L366	760133.57	9849065.81	3297.07	3296.38	3264.68
PZ-L367	760141.23	9849078.49	3296.26	3295.57	3263.56
PZ-L368	760148.89	9849091.17	3295.45	3294.76	3262.44
PZ-L369	760156.55	9849103.85	3294.64	3293.95	3261.32
PZ-L370	760164.21	9849116.53	3293.83	3293.14	3260.20
PZ-L371	760171.87	9849129.21	3293.02	3292.33	3259.08
PZ-L372	760179.53	9849141.89	3292.21	3291.52	3257.96
PZ-L373	760187.19	9849154.57	3291.40	3290.71	3256.84
PZ-L374	760194.85	9849167.25	3290.59	3289.90	3255.72
PZ-L375	760202.51	9849179.93	3289.78	3289.09	3254.60
PZ-L376	760210.17	9849192.61	3288.97	3288.28	3253.48
PZ-L377	760217.83	9849205.29	3288.16	3287.47	3252.36
PZ-L378	760225.49	9849217.97	3		





### UBICACIÓN DEL PROYECTO

### DATOS GEOGRÁFICOS

**DATUM:** WGS84 ZONA 17S

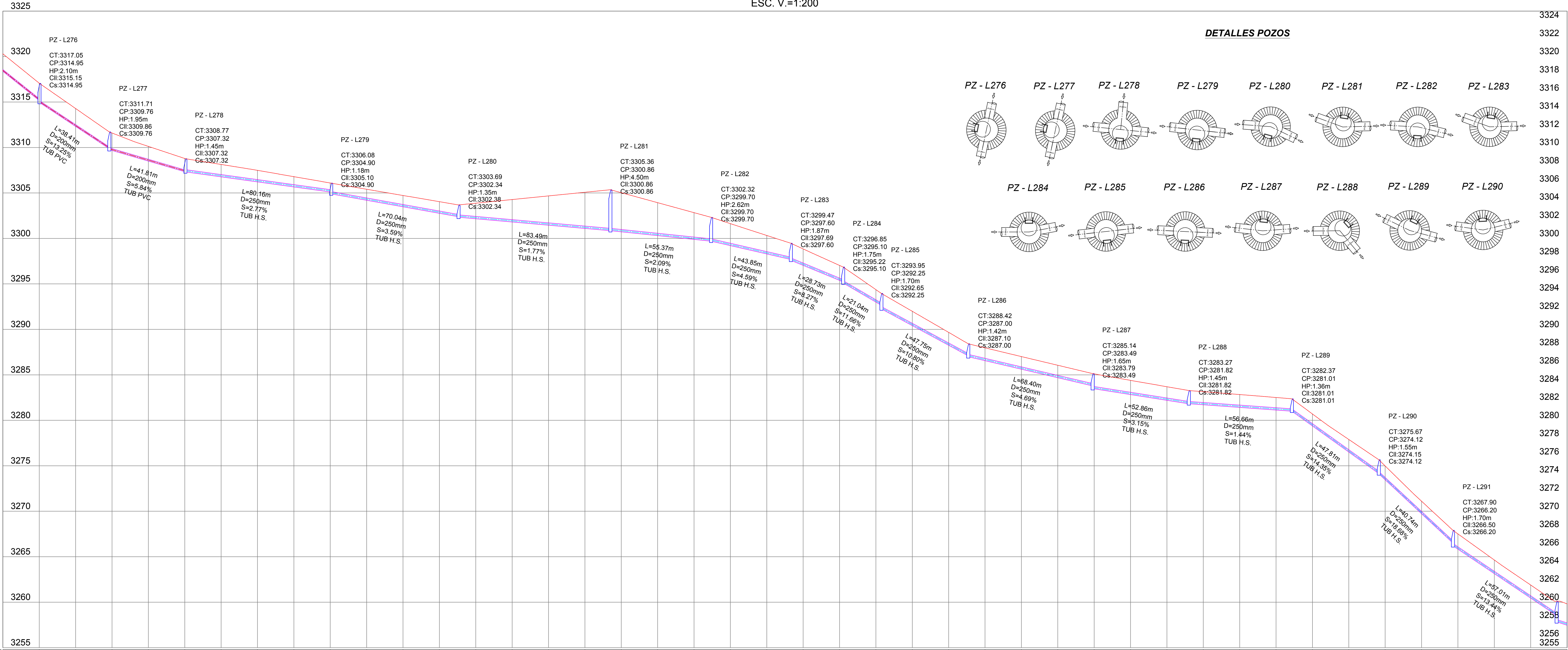
**COORDENADAS UTM:**  
759353.24 m E  
9850780.17 m S

**ALTURA REFERENCIAL:**  
3249 m

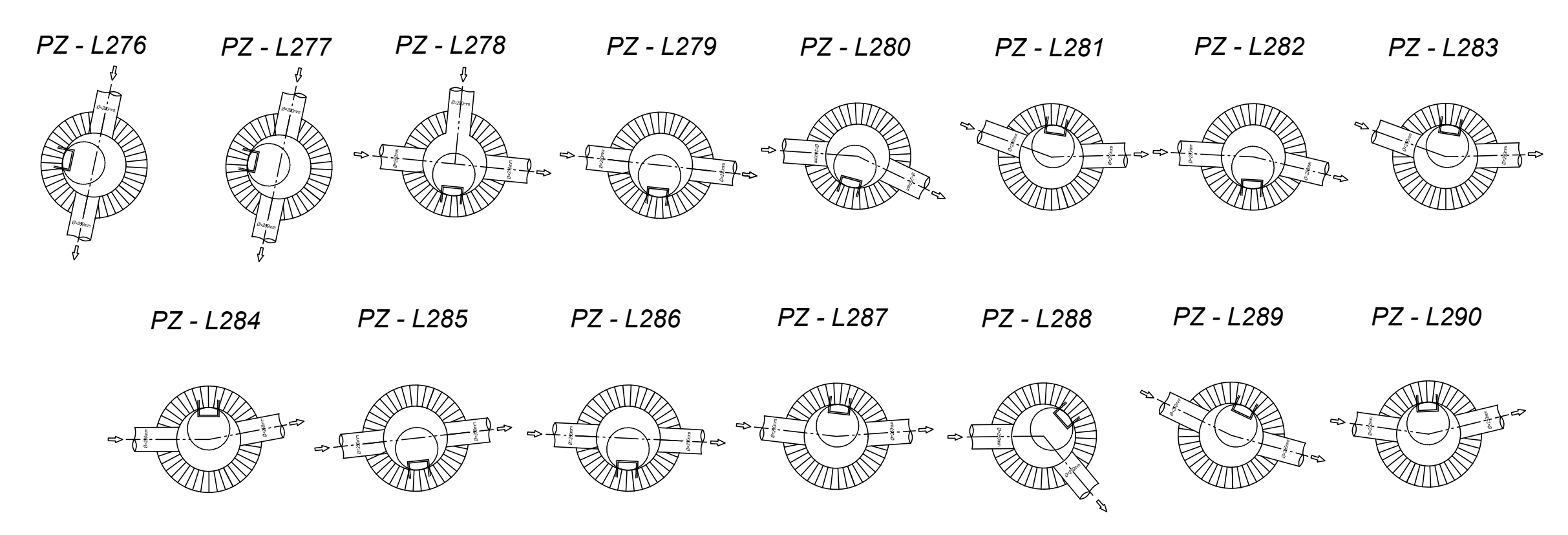
### SIMBOLOGÍA

- TUBERÍA PVC D = 200mm
- TUBERÍA H.S. D = 250mm
- POZO DE REVISIÓN
- PERFIL DEL TERRENO
- CALLES / VÍAS
- LÍMITES TERRITORIALES

PERFIL LONGITUDINAL  
ESC. H.=1:1000  
ESC. V.=1:200

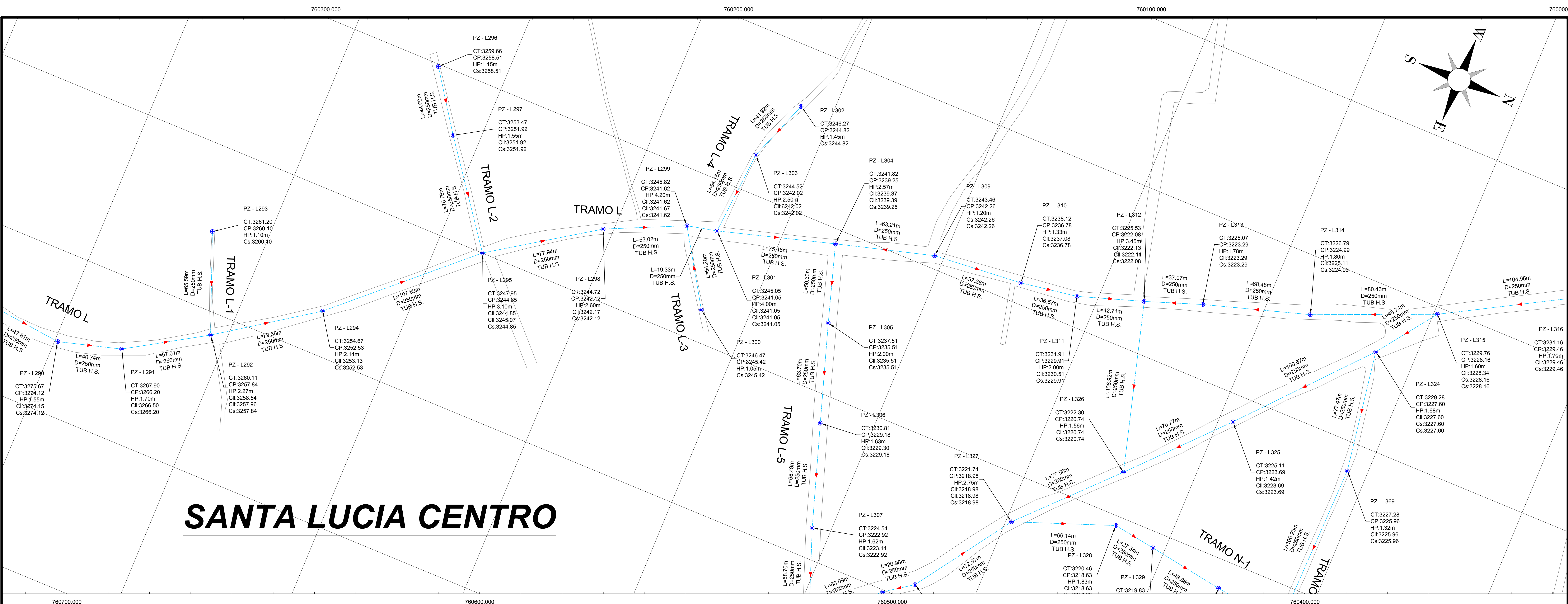


DETALLES POZOS

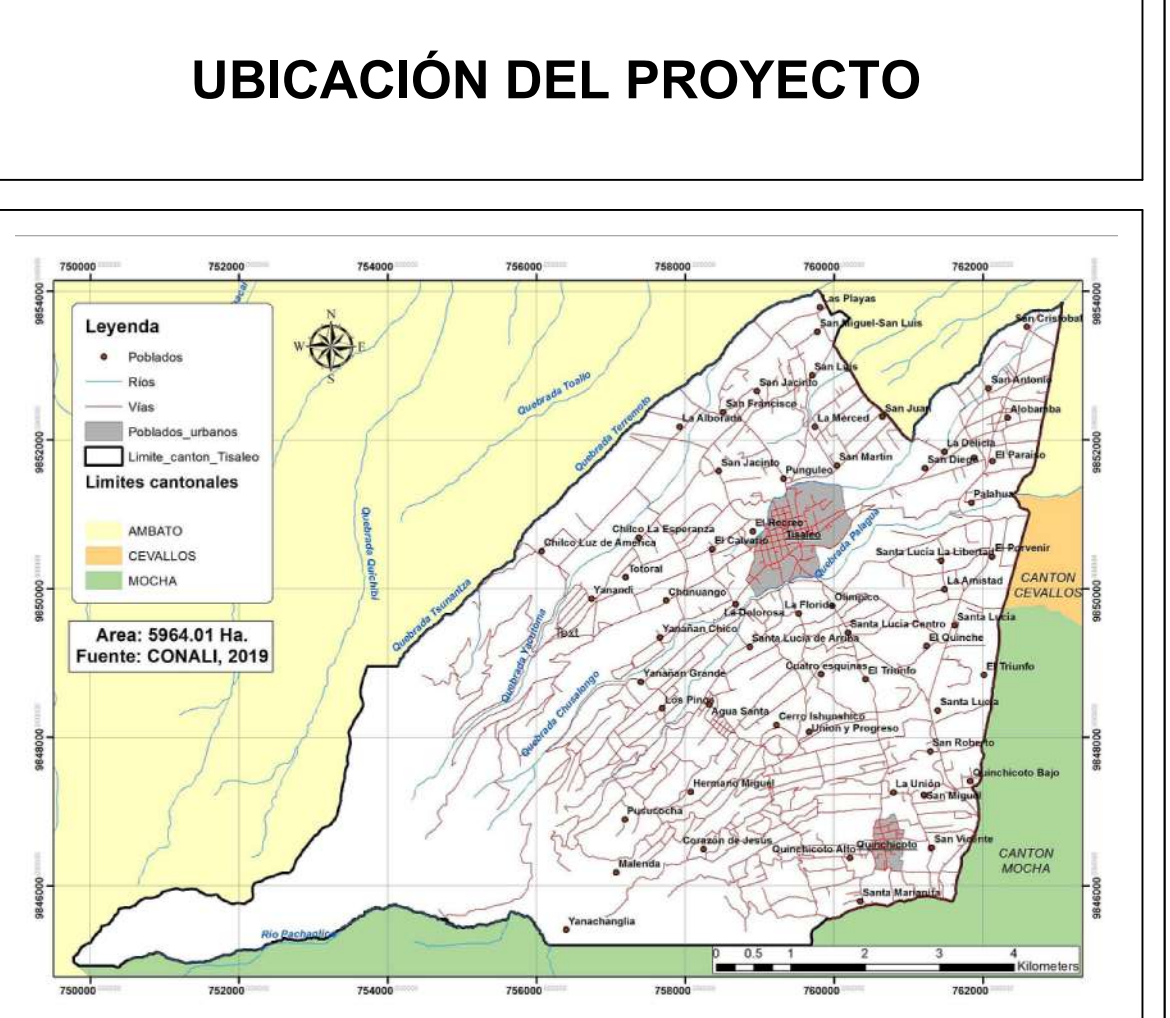
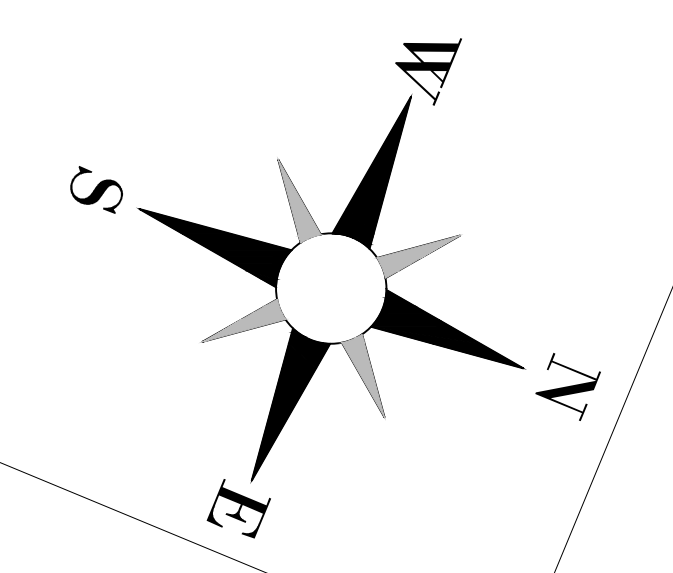


	0+000	0+920	0+940	0+960	0+980	1+000	1+020	1+040	1+060	1+080	1+100	1+120	1+140	1+160	1+180	1+200	1+220	1+240	1+260	1+280	1+300	1+320	1+340	1+360	1+380	1+400	1+420	1+440	1+460	1+480	1+500	1+520	1+540	1+560	1+580	1+600	1+620	1+640	1+660	1+680	1+700	1+720																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
COTA TERRENO	3314.99	3317.07	3314.29	3314.29	3311.60	3311.02	3307.79	3307.14	3307.49	3306.79	3306.10	3305.41	3304.72	3304.04	3303.88	3303.81	3303.28	3301.46	3300.68	3301.10	3300.08	3300.73	3300.03	3300.33	3300.93	3301.63	3302.21	3302.91	3303.59	3304.26	3304.92	3305.57	3306.21	3306.84	3307.46	3308.07	3308.66	3309.24	3309.81	3310.37	3310.92	3311.46	3311.99	3312.51	3313.02	3313.52	3314.01	3314.49	3314.96	3315.42	3315.87	3316.31	3316.74	3317.16	3317.57	3317.97	3318.36	3318.74	3319.11	3319.47	3319.82	3320.17	3320.51	3320.84	3321.16	3321.47	3321.77	3322.06	3322.34	3322.61	3322.87	3323.12	3323.37	3323.61	3323.84	3324.06	3324.27	3324.47	3324.66	3324.83	3325.00	3325.16	3325.31	3325.46	3325.60	3325.74	3325.87	3326.00	3326.13	3326.25	3326.37	3326.48	3326.59	3326.69	3326.79	3326.88	3326.97	3327.06	3327.14	3327.22	3327.29	3327.36	3327.43	3327.49	3327.55	3327.61	3327.66	3327.71	3327.76	3327.81	3327.85	3327.89	3327.93	3327.97	3328.01	3328.05	3328.09	3328.13	3328.17	3328.21	3328.25	3328.29	3328.33	3328.37	3328.41	3328.45	3328.49	3328.53	3328.57	3328.61	3328.65	3328.69	3328.73	3328.77	3328.81	3328.85	3328.89	3328.93	3328.97	3329.01	3329.05	3329.09	3329.13	3329.17	3329.21	3329.25	3329.29	3329.33	3329.37	3329.41	3329.45	3329.49	3329.53	3329.57	3329.61	3329.65	3329.69	3329.73	3329.77	3329.81	3329.85	3329.89	3329.93	3329.97	3330.01	3330.05	3330.09	3330.13	3330.17	3330.21	3330.25	3330.29	3330.33	3330.37	3330.41	3330.45	3330.49	3330.53	3330.57	3330.61	3330.65	3330.69	3330.73	3330.77	3330.81	3330.85	3330.89	3330.93	3330.97	3331.01	3331.05	3331.09	3331.13	3331.17	3331.21	3331.25	3331.29	3331.33	3331.37	3331.41	3331.45	3331.49	3331.53	3331.57	3331.61	3331.65	3331.69	3331.73	3331.77	3331.81	3331.85	3331.89	3331.93	3331.97	3332.01	3332.05	3332.09	3332.13	3332.17	3332.21	3332.25	3332.29	3332.33	3332.37	3332.41	3332.45	3332.49	3332.53	3332.57	3332.61	3332.65	3332.69	3332.73	3332.77	3332.81	3332.85	3332.89	3332.93	3332.97	3333.01	3333.05	3333.09	3333.13	3333.17	3333.21	3333.25	3333.29	3333.33	3333.37	3333.41	3333.45	3333.49	3333.53	3333.57	3333.61	3333.65	3333.69	3333.73	3333.77	3333.81	3333.85	3333.89	3333.93	3333.97	3334.01	3334.05	3334.09	3334.13	3334.17	3334.21	3334.25	3334.29	3334.33	3334.37	3334.41	3334.45	3334.49	3334.53	3334.57	3334.61	3334.65	3334.69	3334.73	3334.77	3334.81	3334.85	3334.89	3334.93	3334.97	3335.01	3335.05	3335.09	3335.13	3335.17	3335.21	3335.25	3335.29	3335.33	3335.37	3335.41	3335.45	3335.49	3335.53	3335.57	3335.61	3335.65	3335.69	3335.73	3335.77	3335.81	3335.85	3335.89	3335.93	3335.97	3336.01	3336.05	3336.09	3336.13	3336.17	3336.21	3336.25	3336.29	3336.33	3336.37	3336.41	3336.45	3336.49	3336.53	3336.57	3336.61	3336.65	3336.69	3336.73	3336.77	3336.81	3336.85	3336.89	3336.93	3336.97	3337.01	3337.05	3337.09	3337.13	3337.17	3337.21	3337.25	3337.29	3337.33	3337.37	3337.41	3337.45	3337.49	3337.53	3337.57	3337.61	3337.65	3337.69	3337.73	3337.77	3337.81	3337.85	3337.89	3337.93	3337.97	3338.01	3338.05	3338.09	3338.13	3338.17	3338.21	3338.25	3338.29	3338.33	3338.37	3338.41	3338.45	3338.49	3338.53	3338.57	3338.61	3338.65	3338.69	3338.73	3338.77	3338.81	3338.85	3338.89	3338.93	3338.97	3339.01	3339.05	3339.09	3339.13	3339.17	3339.21	3339.25	3339.29	3339.33	3339.37	3339.41	3339.45	3339.49	3339.53	3339.57	3339.61	3339.65	3339.69	3339.73	3339.77	3339.81	3339.85	3339.89	3339.93	3339.97	3340.01	3340.05	3340.09	3340.13	3340.17	3340.21	3340.25	3340.29	3340.33	3340.37	3340.41	3340.45	3340.49	3340.53	3340.57	3340.61	3340.65	3340.69	3340.73	3340.77	3340.81	3340.85	3340.89	3340.93	3340.97	3341.01	3341.05	3341.09	3341.13	3341.17	3341.21	3341.25	3341.29	3341.33	3341.37	3341.41	3341.45	3341.49	3341.53	3341.57	3341.61	3341.65	3341.69	3341.73	3341.77	3341.81	3341.85	3341.89	3341.93	3341.97	3342.01	3342.05	3342.09	3342.13	3342.17	3342.21	3342.25	3342.29	3342.33	3342.37	3342.41	3342.45	3342.49	3342.53	3342.57	3342.61	3342.65	3342.69	3342.73	3342.77	3342.81	3342.85	3342.89	3342.93	3342.97	3343.01	3343.05	3343.09	3343.13	3343.17	3343.21	3343.25	3343.29	3343.33	3343.37	3343.41	3343.45	3343.49	3343.53	3343.57	3343.61	3343.65	3343.69	3343.73	3343.77	3343.81	3343.85	3343.89	3343.93	3343.97	3344.01	3344.05	3344.09	3344.13	3344.17	3344.21	3344.25	3344.29	3344.33	3344.37	3344.41	3344.45	3344.49	3344.53	3344.57	3344.61	3344.65	3344.69	3344.73	3344.77	3344.81	3344.85	3344.89	3344.93	3344.97	3345.01	3345.05	3345.09	3345.13	3345.17	3345.21	3345.25	3345.29	3345.33	3345.37	3345.41	3345.45	3345.49	3345.53	3345.57	3345.61	3345.65	3345.69	3345.73	3345.77	3345.81	3345.85	3345.89	3345.93	3345.97	3346.01	3346.05	3346.09	3346.13	3346.17	3346.21	3346.25	3346.29	3346.33	3346.37	3346.41	3346.45	3346.49	3346.53	3346.57	3346.61	3346.65	3346.69	3346.73	3346.77	3346.81	3346.85	3346.89	3346.93	3346.97	3347.01	3347.05	3347.09	3347.13	3347.17	3347.21	3347.25	3347.29	3347.33	3347.37	3347.41	3347.45	3347.49	3347.53	3347.57	3347.61	3347.65	3347.69	3347.73	3347.77	3347.81	3347.85	3347.89	3347.93	3347.97	3348.01	3348.05	3348.09	3348.13	3348.17	3348.21	3348.25	3348.29	3348.33	3348.37	3348.41	3348.45	3348.49	3348.53	3348.57	3348.61	3348.65	3348.69	3348.73	3348.77	3348.81	3348.85	3348.89	3348.93	3348.97	3349.01	3349.05	3349.09	3349.13	3349.17	3349.21	3349.25	3349.29	3349.33	3349.37	3349.41	3349.45	3349.49	3349.53	3349.57	3349.61	3349.65	3349.69	3349.73	3349.77	3349.81	3349.85	3349.89	3349.93	3349.97	3350.01	3350.05	3350.09	3350.13	3350.17	3350.21	3350.25	3350.29	3350.33	3350.37	3350.41	3350.45	3350.49	3350.53	3350.57	3350.61	3350.65	3350.69	3350.73	3350.77	3350.81	3350.85	3350.89	3350.93	3350.97	3351.01	3351.05	3351.09	3351.13	3351.17	3351.21	3351.25	3351.29	3351.33	3351.37	3351.41	3351.45	3351.49	3351.53	3351.57	3351.61	3351.65	3351.69	3351.73	3351.77	3351.81	3351.85	3351.89	3351.93	3351.97	3352.01	3352.05	3352.09	3352.13	3352.17	3352.21	3352.25	3352.29	3352.33	3352.37	3352.41	3352.45	3352.49	3352.53	3352.57	3352.61	3352.65	3352.69	3352.73	3352.77	3352.81	3352.85	3352.89	3352.93	3352.97	3353.01	3353.05	3353.09	3353.13	3353.17	3353.21	3353.25	3353.29	3353.33	3353.37	3353.41	3353.45	3353.49	3353.53	3353.57	3353.61	3353.65	3353.69	3353.73	3353.77	3353.81	3353.85	3353.89	3353.93	3353.97	3354.01	3354.05	3354.09	3354.13	3354.17	3354.21	3354.25	3354.29	3354.33	3354.37	3354.41	3354.45	3354.49	3354.53	3354.57	3354.61	3354.65	3354.69	3354.73	3354.77	3354.81	3354.85	3354.89	3354.93	3354.97	3355.01	3355.05	3355.09	3355.13	3355.17	3355.21	3355.25	3355.29	3355.33	3355.37	3355.41	3355.45	3355.49	3355.53	3355.57	3355.61	3355.65	3355.69	3355.73	3355.77	3355.81	3355.85	3355.89	3355.93	3355.97	3356.01	3356.05	3356.09	3356.13	3356.17	3356.21	3356.25	3356.29	3356.33	3356.37	3356.41	3356.45	3356.49	3356.53	3356.57	3356.61	3356.65	3356.69	3356.73	3356.77	3356.81	3356.85	3356.89	3356.93	3356.97	3357.01	3357.05	3357.09	3357.13	3357.17	3357.21	3357.25	3357.29	3357.33	3357.37	3357.41	3357.45	3357.49	3357.53	3357.57	3357.61	3357.65	3357.69	3357.73	3357.77	3357.81	3357.85	3357.89	3357.93	3357.97	3358.01	3358.05	3358.09	3358.13	3358.17	3358.21	3358.25	3358.29	3358.33	3358.37	3358.41	3358.45	3358.49	3358.53	3358.57	3358.61	3358.65	3358.69	3358.73	3358.77	3358.81	3358.85	3358.89	3358.93	3358.97	3359.01	3359.05	3359.09	3359.13	3359.17	3359.21	3359.25	3359.29	3359.33	3359.37	3359.41	3359.45	3359.49	3359.53	3359.57	3359.61	3359.65	3359.69	3359.73	3359.77	3359.81	3359.85	3359.89	3359.93	3359.97	3360.01	3360.05	3360.09	3360.13	3360.17	3360.21	3360.25	3360.29	3360.33	3360.37	3360.41	3360.45	3360.49	3360.53	3360.57	3360.61	3360.65	3360.69	3360.73	3360.77	3360.81	3360.85	3360.89	3360.93





# SANTA LUCIA CENTRO



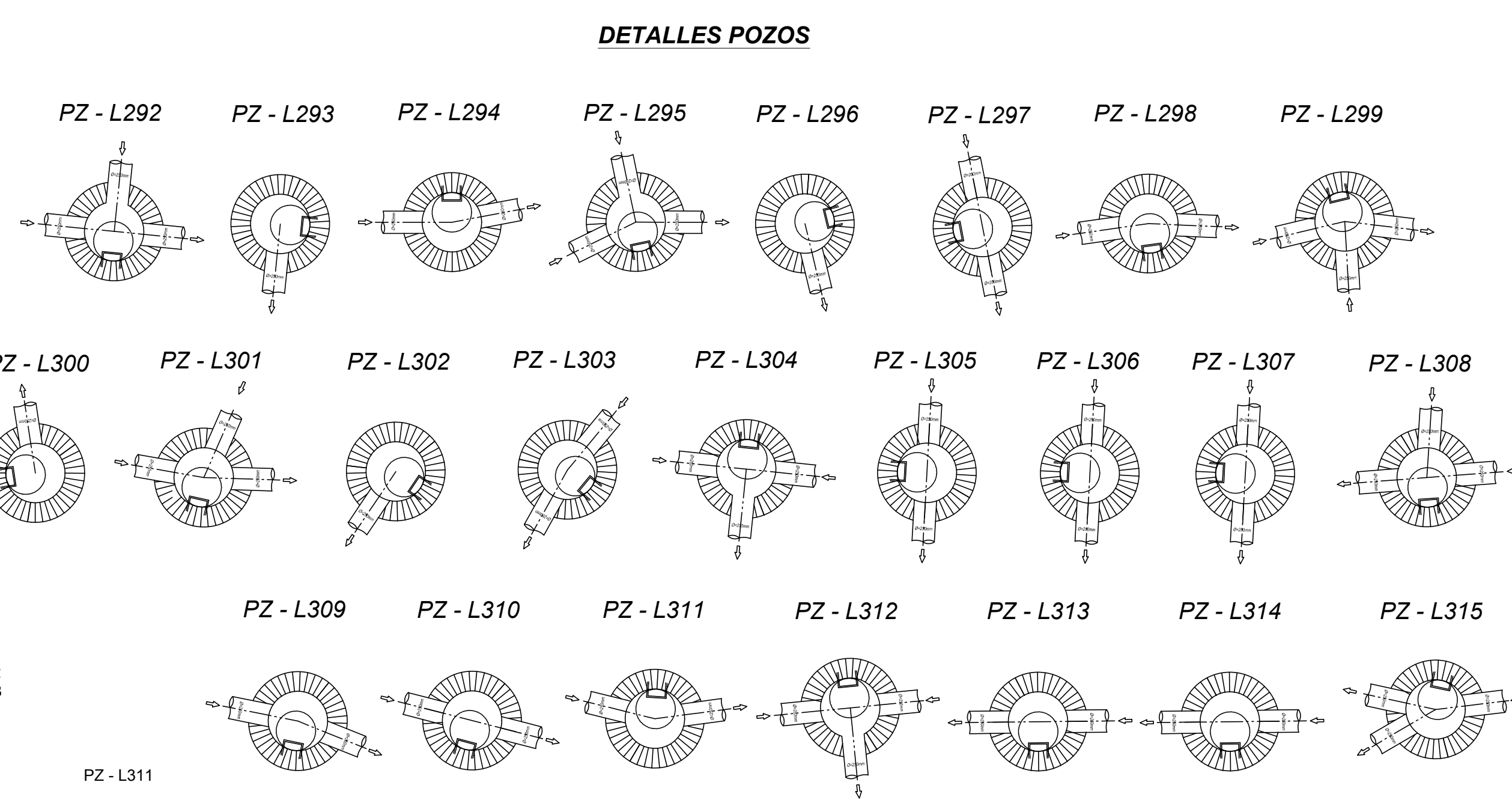
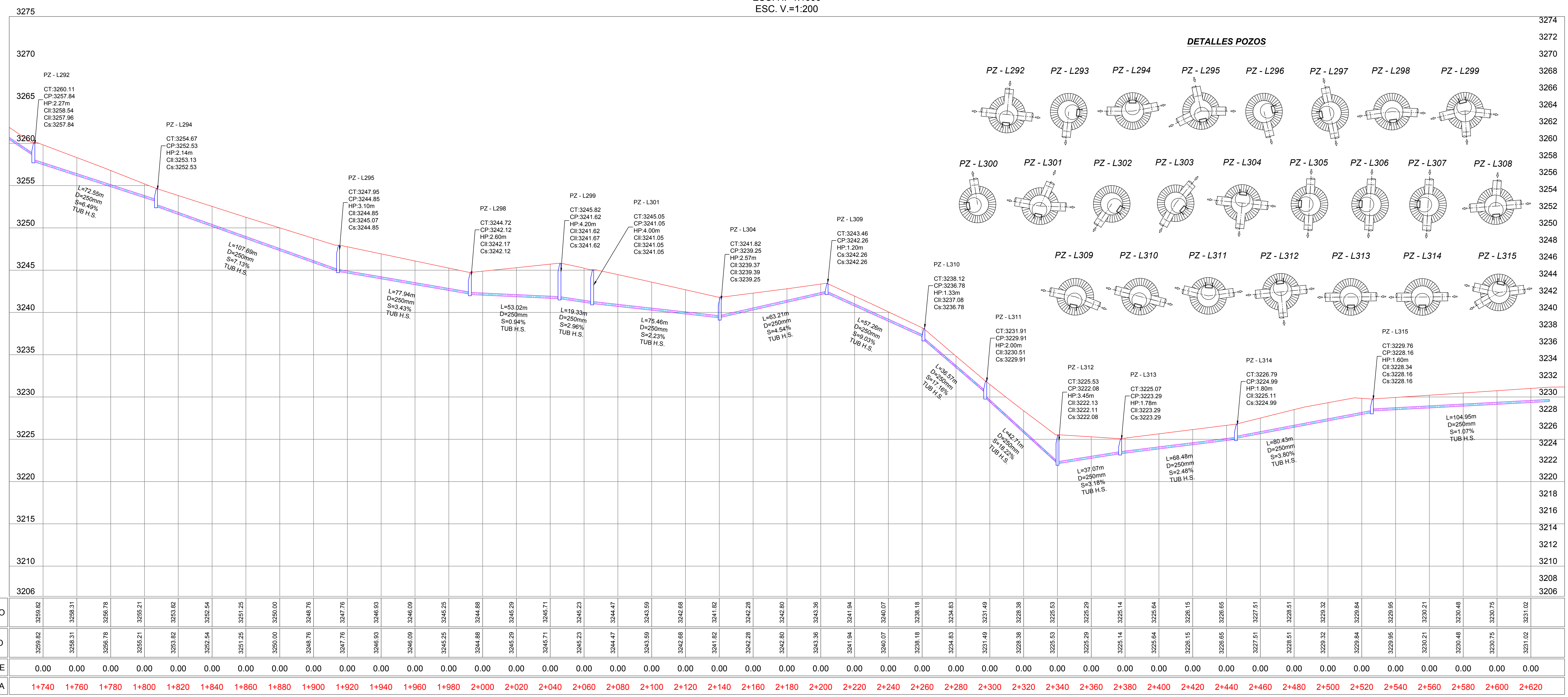
**DATUM:** WGS84 ZONA 17S

**COORDENADAS UTM:**  
759353.24 m E  
9850780.17 m S

**ALTURA REFERENCIAL:**  
3249 m

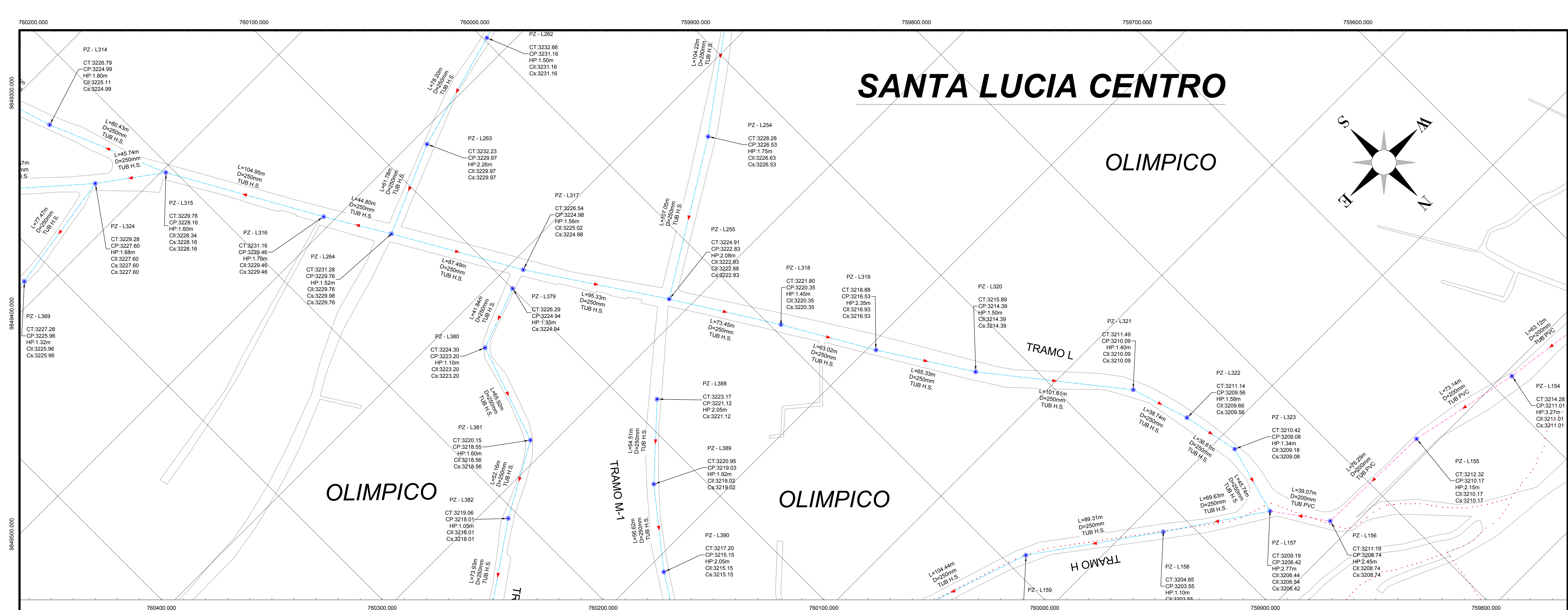
- SIMBOLOGÍA**
- TUBERÍA PVC D = 200mm
  - TUBERÍA H.S. D = 250mm
  - POZO DE REVISIÓN
  - PERFIL DEL TERRENO
  - CALLES / VÍAS
  - LÍMITES TERRITORIALES

PERFIL LONGITUDINAL  
ESC. H.=1:1000  
ESC. V.=1:200

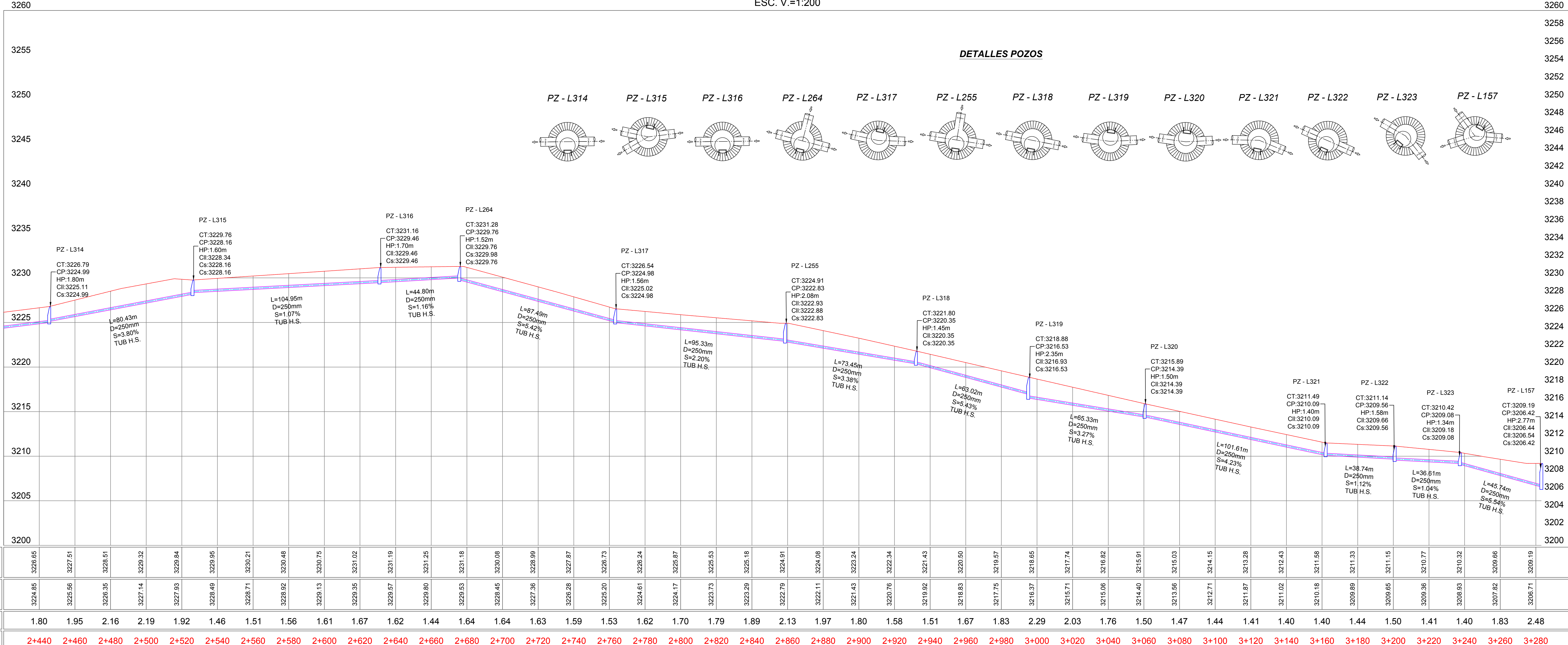


POZO	ESTE (m)	NORTE (m)	C. TERRENO (m)	C. LLEGADA (m)	C. SALIDA (m)
PZ-L292	760020.30	984759.07	3307.77	3307.32	3307.32
PZ-L293	760086.41	984803.74	3306.08	3305.10	3304.90
PZ-L294	760177.67	984810.17	3303.69	3302.99	3302.34
PZ-L295	760288.78	984819.85	3305.36	3300.86	3300.85
PZ-L296	760382.27	984824.44	3302.32	3299.70	3299.70
PZ-L297	760584.82	984838.81	3298.47	3297.69	3297.69
PZ-L298	760759.00	984816.75	3296.85	3295.22	3295.10
PZ-L299	760972.56	984836.78	3293.95	3292.65	3292.25
PZ-L300	760956.14	984838.14	3298.42	3287.10	3287.00
PZ-L301	760548.78	984850.42	3285.14	3283.79	3283.49
PZ-L302	760511.07	984850.54	3281.27	3281.82	3281.82
PZ-L303	760549.57	984854.40	3282.37	3281.05	3281.01
PZ-L304	760554.69	984861.34	3275.67	3274.15	3273.15
PZ-L305	760543.37	984864.13	3287.91	3286.51	3286.21
PZ-L306	760511.81	984869.36	3285.11	3283.54	3283.44
PZ-L307	760472.05	984874.90	3284.67	3283.13	3282.53
PZ-L308	760519.91	984882.92	3287.95	3284.85	3284.85
PZ-L309	760506.66	984893.19	3284.72	3282.17	3281.17
PZ-L310	760539.44	984891.90	3285.82	3284.62	3284.62
PZ-L311	760530.18	984893.08	3284.08	3281.05	3281.05
PZ-L312	760509.04	984903.19	3281.82	3279.37	3279.25
PZ-L313	760291.95	984904.05	3283.46	3282.28	3282.28
PZ-L314	760309.04	984903.19	3281.82	3279.39	3279.25
PZ-L315	760291.95	984904.05	3283.46	3282.28	3282.28
PZ-L316	760296.96	984905.14	3283.27	3281.82	3281.82
PZ-L317	760288.78	984905.14	3283.69	3282.99	3282.99
PZ-L318	760130.01	984903.35	3281.28	3278.58	3278.58
PZ-L319	760204.41	984902.40	3279.76	3278.34	3278.18
PZ-L320	760235.39	984902.18	3278.79	3275.11	3274.99
PZ-L321	760295.54	984902.73	3275.67	3273.29	3273.29
PZ-L322	760287.91	984902.78	3275.53	3272.11	3272.08
PZ-L323	760130.01	984903.35	3281.28	3277.96	3277.96
PZ-L324	760086.41	984903.74	3306.08	3265.02	3264.98
PZ-L325	760177.67	984910.17	3303.69	3262.99	3262.83
PZ-L326	760288.78	984919.85	3305.36	3260.86	3260.35
PZ-L327	760382.27	984924.44	3302.32	3259.70	3259.34
PZ-L328	760584.82	984938.81	3298.47	3257.69	3257.69
PZ-L329	760759.00	984916.75	3296.85	3255.22	3255.10
PZ-L330	760972.56	984936.78	3293.95	3252.65	3252.25
PZ-L331	760956.14	984938.14	3298.42	3250.10	3250.00
PZ-L332	760548.78	984950.42	3285.14	3247.79	3247.49
PZ-L333	760511.07	984950.54	3281.27	3245.82	3245.82
PZ-L334	760549.57	984954.40	3282.37	3245.05	3245.01
PZ-L335	760554.69	984961.34	3275.67	3243.15	3242.15
PZ-L336	760543.37	984964.13	3287.91	3240.51	3240.21
PZ-L337	760511.81	984969.36	3285.11	3238.54	3238.44
PZ-L338	760472.05	984974.90	3284.67	3237.13	3236.53
PZ-L339	760519.91	984982.92	3287.95	3234.85	3234.85
PZ-L340	760506.66	984993.19	3284.72	3232.17	3231.17
PZ-L341	760539.44	984991.90	3285.82	3231.62	3231.62
PZ-L342	760530.18	984993.08	3284.08	3229.05	3229.05
PZ-L343	760509.04	984903.19	3281.82	3226.37	3226.25
PZ-L344	760291.95	984904.05	3283.46	3223.28	3223.28
PZ-L345	760309.04	984903.19	3281.82	3220.39	3220.25
PZ-L346	760291.95	984904.05	3283.46	3217.28	3217.28
PZ-L347	760296.96	984905.14	3283.27	3214.82	3214.82
PZ-L348	760288.78	984905.14	3283.69	3211.99	3211.99
PZ-L349	760280.78	984905.14	3284.11	3209.29	3209.29
PZ-L350	760130.01	984903.35	3281.28	3206.58	3206.58
PZ-L351	760204.41	984902.40	3279.76	3203.84	3203.68
PZ-L352	760235.39	984902.18	3278.79	3201.11	3200.99
PZ-L353	760295.54	984902.73	3275.67	3198.29	3198.29
PZ-L354	760287.91	984902.78	3275.53	3195.11	3195.08
PZ-L355	760130.01	984903.35	3281.28	3192.42	3192.38
PZ-L356	760086.41	984903.74	3306.08	3189.76	3189.72
PZ-L357	760177.67	984910.17	3303.69	3187.09	3187.03
PZ-L358	760288.78	984919.85	3305.36	3184.86	3184.35
PZ-L359	760382.27	984924.44	3302.32	3182.70	3182.34
PZ-L360	760584.82	984938.81	3298.47	3180.69	3180.69
PZ-L361	760759.00	984916.75	3296.85	3178.22	3178.10
PZ-L362	760972.56	984936.78	3293.95	3175.65	3175.25
PZ-L363	760956.14	984938.14	3298.42	3173.10	3173.00
PZ-L364	760548.78	984950.42	3285.14	3170.59	3170.29
PZ-L365	760511.07	984950.54	3281.27	3168.62	3168.62
PZ-L366	760549.57	984954.40	3282.37	3167.85	3167.81
PZ-L367	760554.69	984961.34	3275.67	3165.95	3164.95
PZ-L368	760543.37	984964.13	3287.91	3163.31	3163.01
PZ-L369	760511.81	984969.36	3285.11	3161.34	3161.24
PZ-L370	760472.05	984974.90	3284.67	3159.93	3159.33
PZ-L371	760519.91	984982.92	3287.95	3157.49	3157.19
PZ-L372	760506.66	984993.19	3284.72	3155.01	3154.01
PZ-L373	760539.44	984991.90	3285.82	3152.52	3152.52
PZ-L374	760530.18	984993.08	3284.08	3150.05	3150.05
PZ-L375	760509.04	984903.19	3281.82	3147.57	3147.45
PZ-L376	760291.95	984904.05	3283.46	3144.48	3144.48
PZ-L377	760309.04	984903.19	3281.82	3141.99	3141.99
PZ-L378	760291.95	984904.05	3283.46	3139.40	3139.40
PZ-L379	760296.96	984905.14	3283.27	3136.92	3136.92
PZ-L380	760288.78	984905.14	3283.69	3134.33	3134.33
PZ-L381	760280.78	984905.14	3284.11	3131.74	3131.74
PZ-L382	760130.01	984903.35	3281.28	3129.15	3129.15
PZ-L383	760204.41	984902.40	3279.76	3126.56	3126.56
PZ-L384	760235.39	984902.18	3278.79	3123.97	3123.97
PZ-L385	760295.54	984902.73	3275.67	3121.38	3121.38
PZ-L386	760287.91	984902.78	3275.53	3118.79	3118.79
PZ-L387	760130.01	984903.35	3281.28	3116.20	3116.20
PZ-L388	760086.41	984903.74	3306.08	3113.61	3113.57
PZ-L389	760177.67	984910.17	3303.69	3111.02	3110.98
PZ-L390	760288.78	984919.85	3305.36	3108.43	3108.39
PZ-L391	760382.27	984924.44	3302.32	3105.84	3105.70
PZ-L392	760584.82	984938.81	3298.47	3103.25	3103.25
PZ-L393	760759.00	984916.75	3296.85	3100.66	3100.66
PZ-L394	760972.56	984936.78	3293.95	3098.07	3098.07
PZ-L395	760956.14	984938.14	3298.42	3095.48	3095.48
PZ-L396	760548.78	984950.42	3285.14	3092.89	3092.89
PZ-L397	760511.07	984950.54	3281.27	3090.30	3090.30
PZ-L398	760549.57	984954.40	3282.37	3087.71	3087.71
PZ-L399	760554.69	984961.34	3275.67	3085.12	3085.12
PZ-L400	760543.37	984964.13	3287.91	3082.53	3082.53
PZ-L401	760511.81	984969.36	3285.11	3079.94	3079.94
PZ-L402	760472.05	984974.90	3284.67	3077.35	3077.35
PZ-L403	760519.91	984982.92	3287.95	3074.76	3074.76
PZ-L404	760506.66	984993.19	3284.72	3072.17	3072.17
PZ-L405	760539.44	984991.90	3285.82	3069.58	3069.58
PZ-L406	760530.18	984993.08	3284.08	3066.99	3066.99
PZ-L407	760509.04	984903.19	3281.82	3064.40	3064.40
PZ-L408	760291.95	984904.05	3283.46	3061.81	3061.81
PZ-L409	760309.04	984903.19	3281.82	3059.22	3059.22
PZ-L410	760291.95	984904.05	3283.46	3056.63	3056.63
PZ-L411	760296.96	984905.14	3283.27	3054.04	3054.04
PZ-L412	760288.78	984905.14	3283.69	3051.45	3051.45
PZ-L413	760280.78	984905.14	3284.11	3048.86	3048.86
PZ-L414	760130.01	984903.35	3281.28	3046.27	3046.27
PZ-L415	760204.41	984902.40	3279.76	3043.68	3043.68
PZ-L416	760235.39	984902.18	3278.79	3041.09	3041.09
PZ-L417	760295.54	984902.73	3275.67	3038.50	3038.50
PZ-L418	760287.91	984902.78	3275.53	3035.91	3035.91
PZ-L419	760130.01	984903.35	3281.28	3033.32	3033.32
PZ-L420	760086.41	984903.74	3306.08	3030.73	3030.69
PZ-L421	760177.67	984910.17	3303.69	3028.14	3028.10
PZ-L422	760288.78	984919.85	3305.36	3025.55	3025.55
PZ-L423	760382.27	984924.44	3302.32	3022.96	3022.92
PZ-L424	760584.82	984938.81	3298.47	3020.37	3020.37
PZ-L425	760759.00	984916.75	3296.85	3017.78	3017.78
PZ-L426	760972.56	984936.78	3293.95	3015.19	3015.19
PZ-L427	760956.14	984938.14	3298.42	3012.60	3012.60
PZ-L428	760548.78	984950.42	3285.14	3010.01	3010.01
PZ-L429	760511.07	984950.54	3281.27	3007.42	3007.42
PZ-L430	760549.57	984954.40	3282.37	3004.83	3004.83
PZ-L431	760554.69	984961.34	3275.67	3002.24	3002.24
PZ-L432					

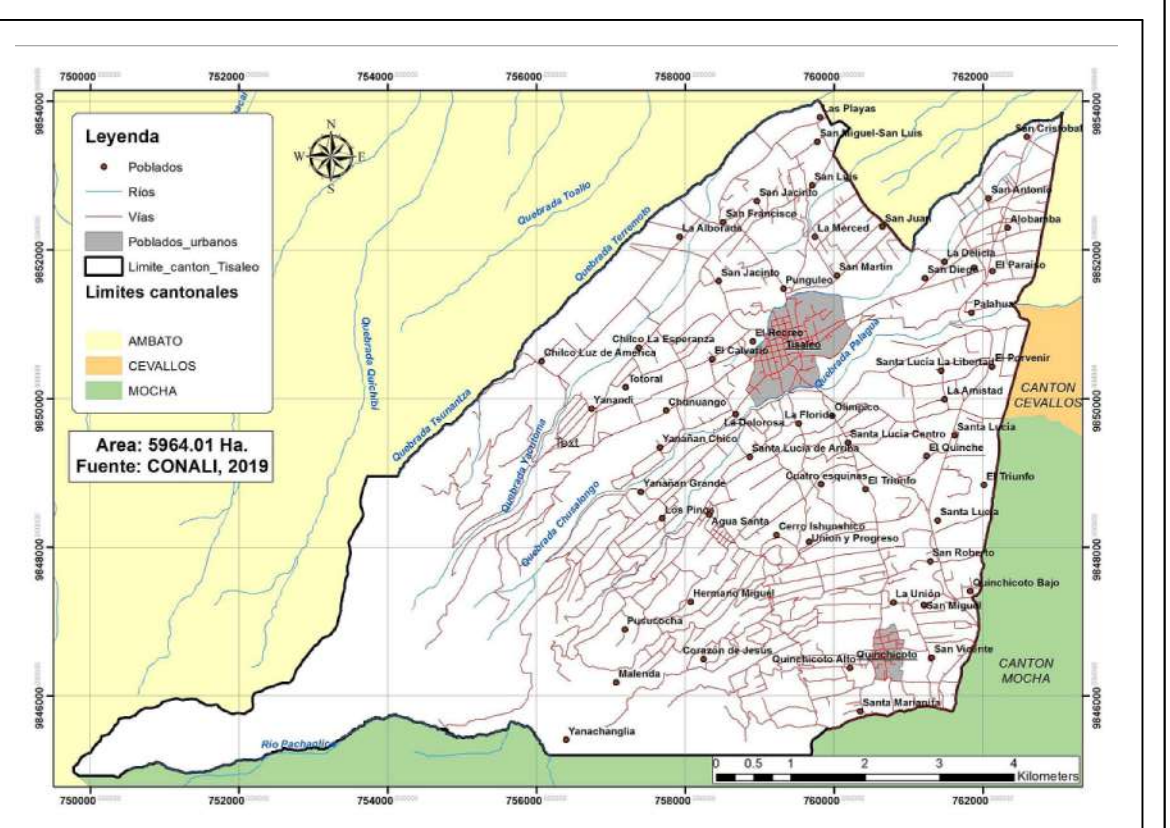




PERFIL LONGITUDINAL  
ESC. H.=1:1000  
ESC. V.=1:200



UBICACION DEL PROYECTO



DATOS GEOGRAFICOS

DATUM: WGS84 ZONA 17S  
 COORDENADAS UTM: 759353.24 m E  
 9850780.17 m S  
 ALTURA REFERENCIAL: 3249 m

SIMBOLOGIA

- TUBERIA PVC D = 200mm
- TUBERIA H.S. D = 250mm
- POZO DE REVISION
- PERFIL DEL TERRENO
- CALLES / VIAS
- LIMITES TERRITORIALES

- L LONGITUD DEL TRAMO
- D / Ø DIÁMETRO DE TUBERIA
- S GRADIENTE HIDRÁULICA
- CT COTA TERRENO
- CP COTA PROYECTO
- CIL COTA DE LLEGADA
- Cs COTA DE SALIDA
- HP ALTURA DE POZO

RED DE ALcantarillado SANITARIO SANTA LUCIA - TRAMO L

POZO	ESTE (m)	NORTE (m)	C. TERRENO (m)	C. LLEGADA (m)	C. SALIDA (m)
PZ-L134	760602.30	9847199.07	3208.77	3207.32	3207.32
PZ-L135	760596.41	9848037.64	3208.08	3206.10	3206.10
PZ-L136	760577.57	9848107.12	3203.69	3202.39	3202.34
PZ-L137	760566.18	9848189.85	3205.36	3202.86	3202.86
PZ-L138	760562.27	9848244.84	3202.32	3206.70	3206.70
PZ-L139	760564.82	9848288.01	3209.47	3207.69	3207.60
PZ-L140	760578.00	9848316.70	3206.85	3206.22	3206.10
PZ-L141	760572.56	9848338.78	3203.95	3202.65	3202.25
PZ-L142	760561.14	9848383.14	3208.42	3207.10	3207.10
PZ-L143	760548.78	9848450.42	3205.14	3203.79	3203.49
PZ-L144	760531.87	9848534.33	3203.27	3201.82	3201.82
PZ-L145	760549.67	9848554.40	3202.37	3201.05	3201.01
PZ-L146	760554.09	9848601.94	3207.67	3204.15	3204.12
PZ-L147	760543.07	9848641.13	3207.91	3206.61	3206.21
PZ-L148	760513.81	9848689.78	3202.11	3208.54	3207.84
PZ-L149	760512.65	9848709.50	3204.67	3203.13	3202.53
PZ-L150	760509.91	9848828.92	3207.95	3204.85	3204.85
PZ-L151	760505.66	9848893.76	3204.72	3202.17	3202.12
PZ-L152	760534.44	9848941.80	3205.82	3201.82	3201.62
PZ-L153	760530.18	9848960.78	3205.05	3201.05	3201.05
PZ-L154	760509.04	9849033.19	3201.82	3203.37	3203.25
PZ-L155	760501.95	9849094.05	3203.46	-	3202.26
PZ-L156	760506.96	9849151.09	3208.12	3207.09	3206.79
PZ-L157	760501.94	9849187.00	3203.91	3203.91	3202.08
PZ-L158	760527.91	9849227.78	3205.53	3202.13	3202.08
PZ-L159	760513.81	9849532.35	3201.28	-	3202.98
PZ-L160	760512.94	9849493.86	3201.16	3202.46	3202.46
PZ-L161	760504.41	9849402.40	3202.74	3202.34	3202.16
PZ-L162	760525.39	9849328.18	3206.79	3202.11	3202.99
PZ-L163	760525.64	9849302.73	3202.67	3202.28	3202.66
PZ-L164	760527.91	9849227.78	3205.53	3202.11	3202.08
PZ-L165	760513.01	9849532.35	3201.28	-	3202.76
PZ-L166	760508.59	9849609.31	3205.54	3202.54	3202.98
PZ-L167	760533.78	9849597.68	3204.81	3202.88	3202.83
PZ-L168	760594.74	9849749.90	3201.80	3202.35	3202.35
PZ-L169	760565.09	9849859.46	3203.88	3201.65	3201.65
PZ-L170	760527.95	9849859.47	3203.89	3201.39	3201.39
PZ-L171	760564.09	9849938.98	3201.49	3201.09	3201.09
PZ-L172	760563.02	9849795.32	3201.14	3200.46	3200.56
PZ-L173	760545.60	9850011.77	3201.42	3200.18	3200.08
PZ-L174	760567.00	9850053.87	3209.19	3206.54	3206.14
PZ-L175	760565.78	9849959.78	3201.11	3207.96	3207.84
PZ-L176	760513.81	9849960.78	3202.11	3201.82	3201.82
PZ-L177	760501.95	9849757.87	3201.66	-	3208.51
PZ-L178	760538.20	9849783.27	3203.47	3201.92	3201.92
PZ-L179	760509.91	9849828.92	3207.95	3205.07	3204.85
PZ-L180	760509.04	9849933.19	3201.82	3201.82	3201.62
PZ-L181	760505.66	9849994.05	3203.46	-	3202.26
PZ-L182	760506.96	9849151.09	3208.12	3207.09	3206.79
PZ-L183	760501.94	9849187.00	3203.91	3203.91	3202.08
PZ-L184	760527.91	9849227.78	3205.53	3202.13	3202.08
PZ-L185	760513.01	9849532.35	3201.28	-	3202.76
PZ-L186	760508.59	9849609.31	3205.54	3202.54	3202.98
PZ-L187	760533.78	9849597.68	3204.81	3202.88	3202.83
PZ-L188	760594.74	9849749.90	3201.80	3202.35	3202.35
PZ-L189	760565.09	9849859.46	3203.88	3201.65	3201.65
PZ-L190	760527.95	9849859.47	3203.89	3201.39	3201.39
PZ-L191	760564.09	9849938.98	3201.49	3201.09	3201.09
PZ-L192	760563.02	9849795.32	3201.14	3200.46	3200.56
PZ-L193	760545.60	9850011.77	3201.42	3200.18	3200.08
PZ-L194	760567.00	9850053.87	3209.19	3206.54	3206.14
PZ-L195	760565.78	9849959.78	3201.11	3207.96	3207.84
PZ-L196	760513.81	9849960.78	3202.11	3201.82	3201.82
PZ-L197	760501.95	9849757.87	3201.66	-	3208.51
PZ-L198	760538.20	9849783.27	3203.47	3201.92	3201.92
PZ-L199	760509.91	9849828.92	3207.95	3205.07	3204.85
PZ-L200	760509.04	9849933.19	3201.82	3201.82	3201.62
PZ-L201	760505.66	9849994.05	3203.46	-	3202.26
PZ-L202	760506.96	9849151.09	3208.12	3207.09	3206.79
PZ-L203	760501.94	9849187.00	3203.91	3203.91	3202.08
PZ-L204	760527.91	9849227.78	3205.53	3202.13	3202.08
PZ-L205	760513.01	9849532.35	3201.28	-	3202.76
PZ-L206	760508.59	9849609.31	3205.54	3202.54	3202.98
PZ-L207	760533.78	9849597.68	3204.81	3202.88	3202.83
PZ-L208	760594.74	9849749.90	3201.80	3202.35	3202.35
PZ-L209	760565.09	9849859.46	3203.88	3201.65	3201.65
PZ-L210	760527.95	9849859.47	3203.89	3201.39	3201.39
PZ-L211	760564.09	9849938.98	3201.49	3201.09	3201.09
PZ-L212	760563.02	9849795.32	3201.14	3200.46	3200.56
PZ-L213	760545.60	9850011.77	3201.42	3200.18	3200.08
PZ-L214	760567.00	9850053.87	3209.19	3206.54	3206.14
PZ-L215	760565.78	9849959.78	3201.11	3207.96	3207.84
PZ-L216	760513.81	9849960.78	3202.11	3201.82	3201.82
PZ-L217	760501.95	9849757.87	3201.66	-	3208.51
PZ-L218	760538.20	9849783.27	3203.47	3201.92	3201.92
PZ-L219	760509.91	9849828.92	3207.95	3205.07	3204.85
PZ-L220	760509.04	9849933.19	3201.82	3201.82	3201.62
PZ-L221	760505.66	9849994.05	3203.46	-	3202.26
PZ-L222	760506.96	9849151.09	3208.12	3207.09	3206.79
PZ-L223	760501.94	9849187.00	3203.91	3203.91	3202.08
PZ-L224	760527.91	9849227.78	3205.53	3202.13	3202.08
PZ-L225	760513.01	9849532.35	3201.28	-	3202.76
PZ-L226	760508.59	9849609.31	3205.54	3202.54	3202.98
PZ-L227	760533.78	9849597.68	3204.81	3202.88	3202.83
PZ-L228	760594.74	9849749.90	3201.80	3202.35	3202.35
PZ-L229	760565.09	9849859.46	3203.88	3201.65	3201.65
PZ-L230	760527.95	9849859.47	3203.89	3201.39	3201.39
PZ-L231	760564.09	9849938.98	3201.49	3201.09	3201.09
PZ-L232	760563.02	9849795.32	3201.14	3200.46	3200.56
PZ-L233	760545.60	9850011.77	3201.42	3200.18	3200.08
PZ-L234	760567.00	9850053.87	3209.19	3206.54	3206.14
PZ-L235	760565.78	9849959.78	3201.11	3207.96	3207.84
PZ-L236	760513.81	9849960.78	3202.11	3201.82	3201.82
PZ-L237	760501.95	9849757.87	3201.66	-	3208.51
PZ-L238	760538.20	9849783.27	3203.47	3201.92	3201.92
PZ-L239	760509.91	9849828.92	3207.95	3205.07	3204.85
PZ-L240	760509.04	9849933.19	3201.82	3201.82	3201.62
PZ-L241	760505.66	9849994.05	3203.46	-	3202.26
PZ-L242	760506.96	9849151.09	3208.12	3207.09	3206.79
PZ-L243	760501.94	9849187.00	3203.91	3203.91	3202.08
PZ-L244	760527.91	9849227.78	3205.53	3202.13	3202.08
PZ-L245	760513.01	9849532.35	3201.28	-	3202.76
PZ-L246	760508.59	9849609.31	3205.54	3202.54	3202.98
PZ-L247	760533				

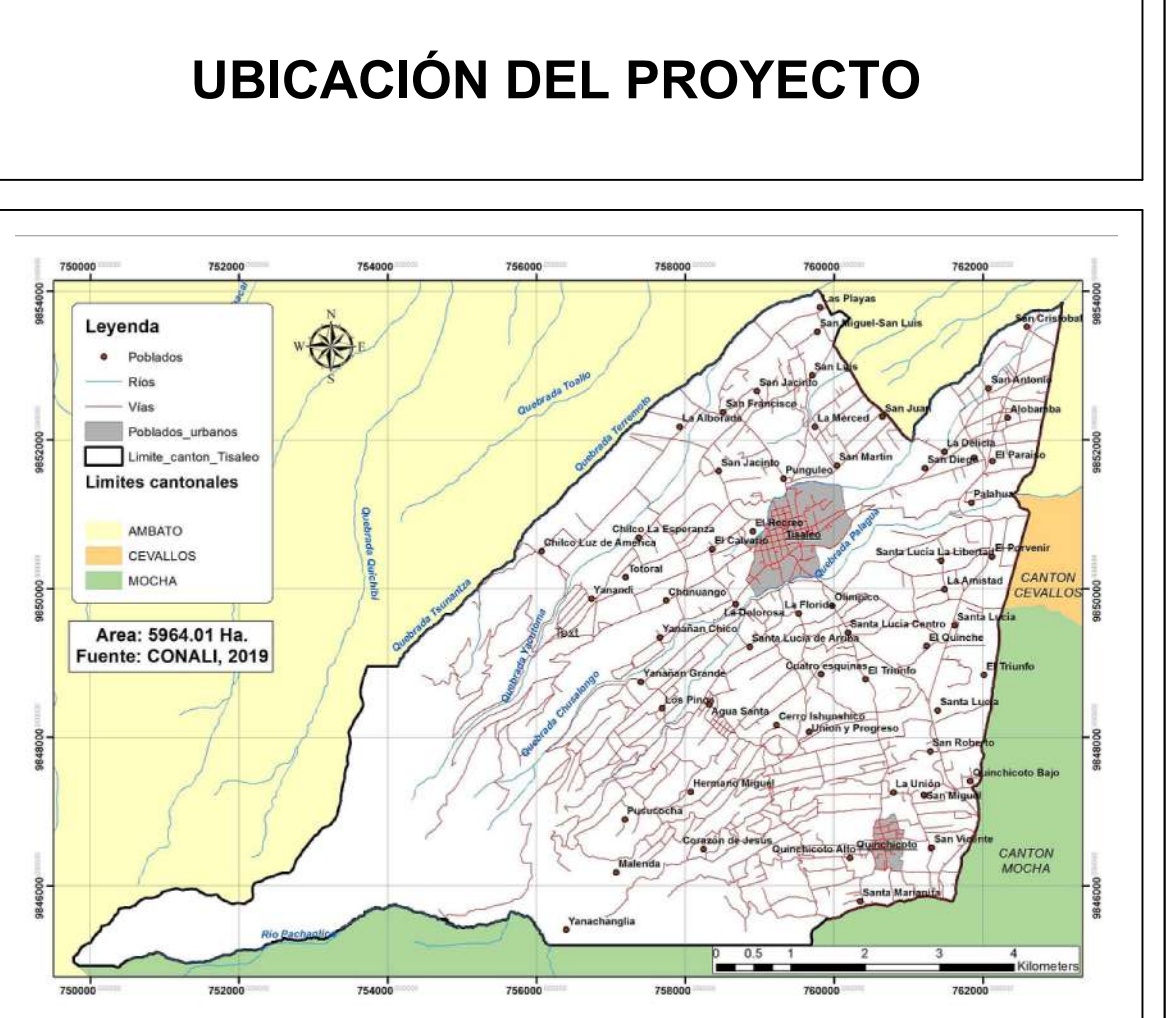




# SANTA LUCIA LA LIBERTAD

## OLIMPICO

CATEQUILLA



### UBICACIÓN DEL PROYECTO

### DATOS GEOGRÁFICOS

**DATUM:** WGS84 ZONA 17S

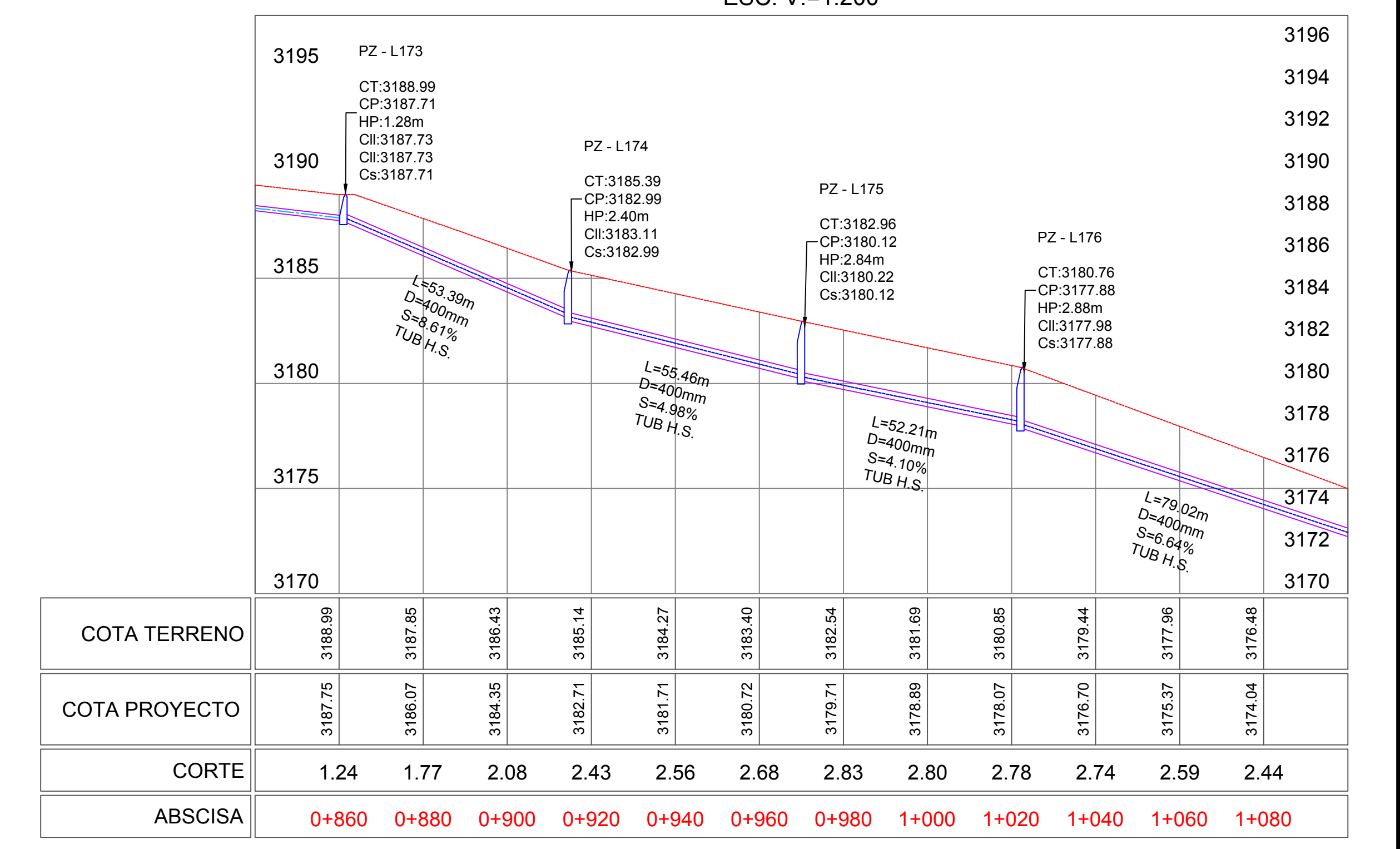
**COORDENADAS UTM:**  
759353.24 m E  
9850780.17 m S

**ALTURA REFERENCIAL:**  
3249 m

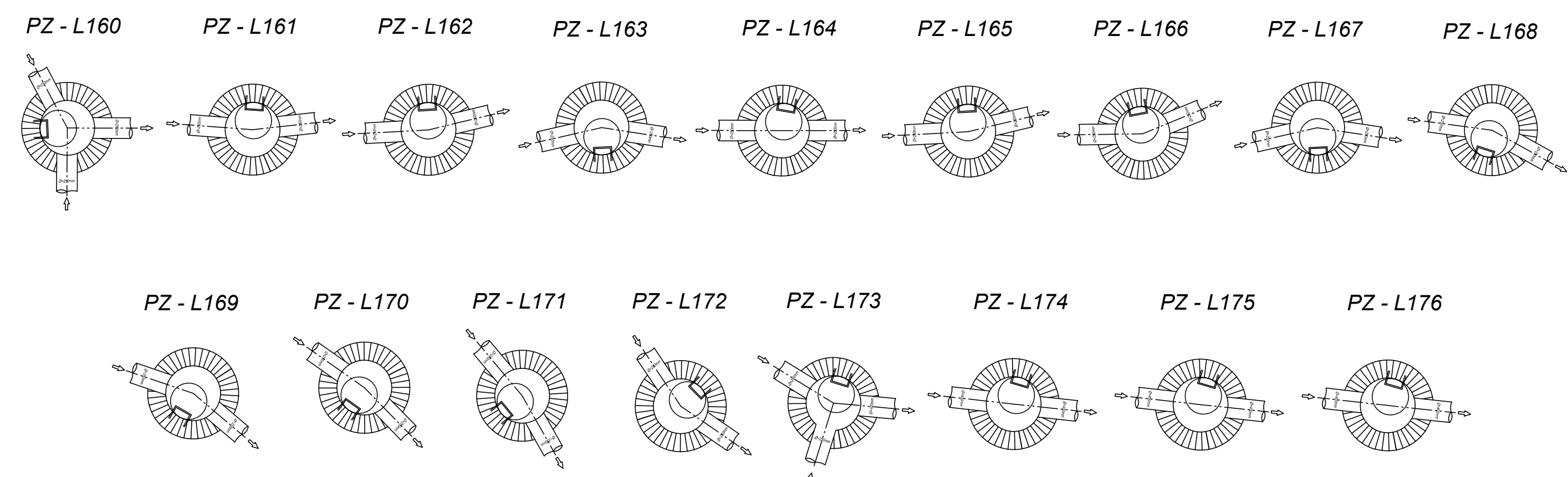
### SIMBOLOGÍA

- TUBERÍA PVC D = 250mm
- TUBERÍA H.S. D = 250mm
- TUBERÍA H.S. D = 400mm
- POZO DE REVISIÓN
- PERFIL DEL TERRENO
- CALLES / VÍAS
- LÍMITES TERRITORIALES

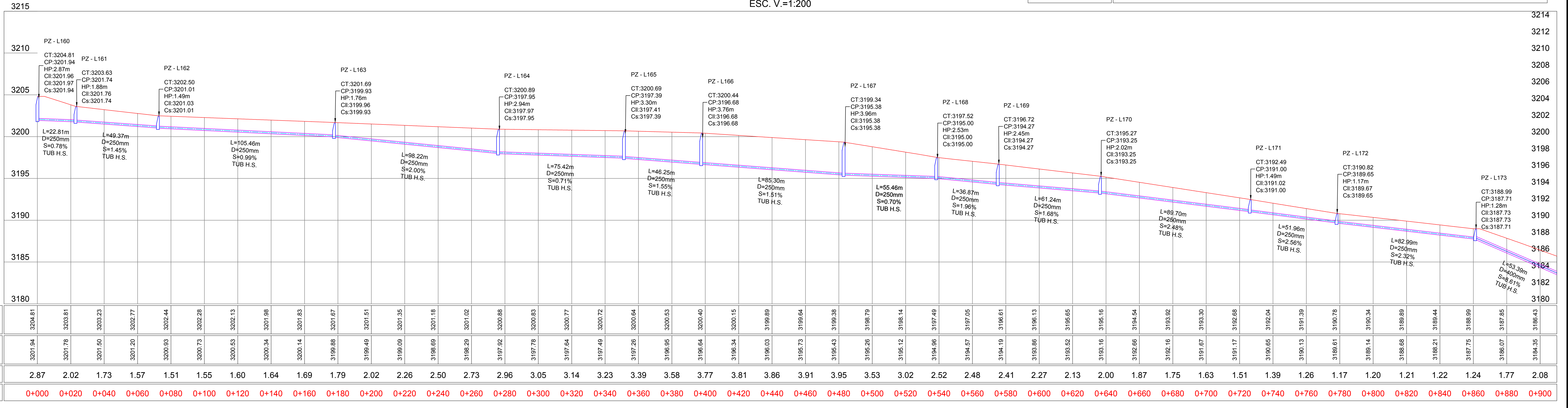
PERFIL LONGITUDINAL  
ESC. H.=1:1000  
ESC. V.=1:200



DETALLES POZOS



PERFIL LONGITUDINAL  
ESC. H.=1:1000  
ESC. V.=1:200



**G.A.D. MUNICIPAL DEL CANTON TISALEO**

REGISTRO DE SISTEMAS DE ALCANTARILLADO SANITARIO SANTA LUCIA - TRAMO I  
PARROQUIA: CATEQUILLA

PROVINCIA: TUNGURAHUA CANTON: TISALEO SECTOR: SANTA LUCIA LA LIBERTAD

FECHA: 11/09/2022

ELABORADO POR: Ing. Gato Nuñez Tutor REVISADO POR: Ing. Gato Nuñez Tutor APROBADO POR: Ing. Gato Nuñez Tutor

LÁMINA: LÁMINA - 21 TOTAL LÁMINAS: 40



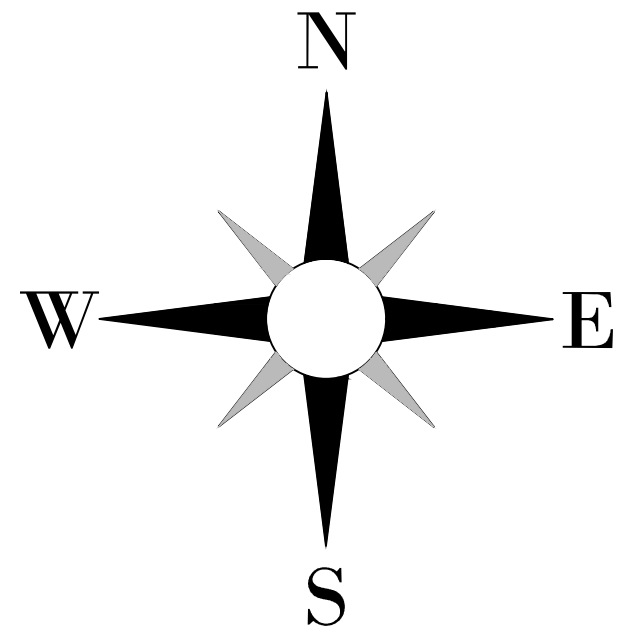
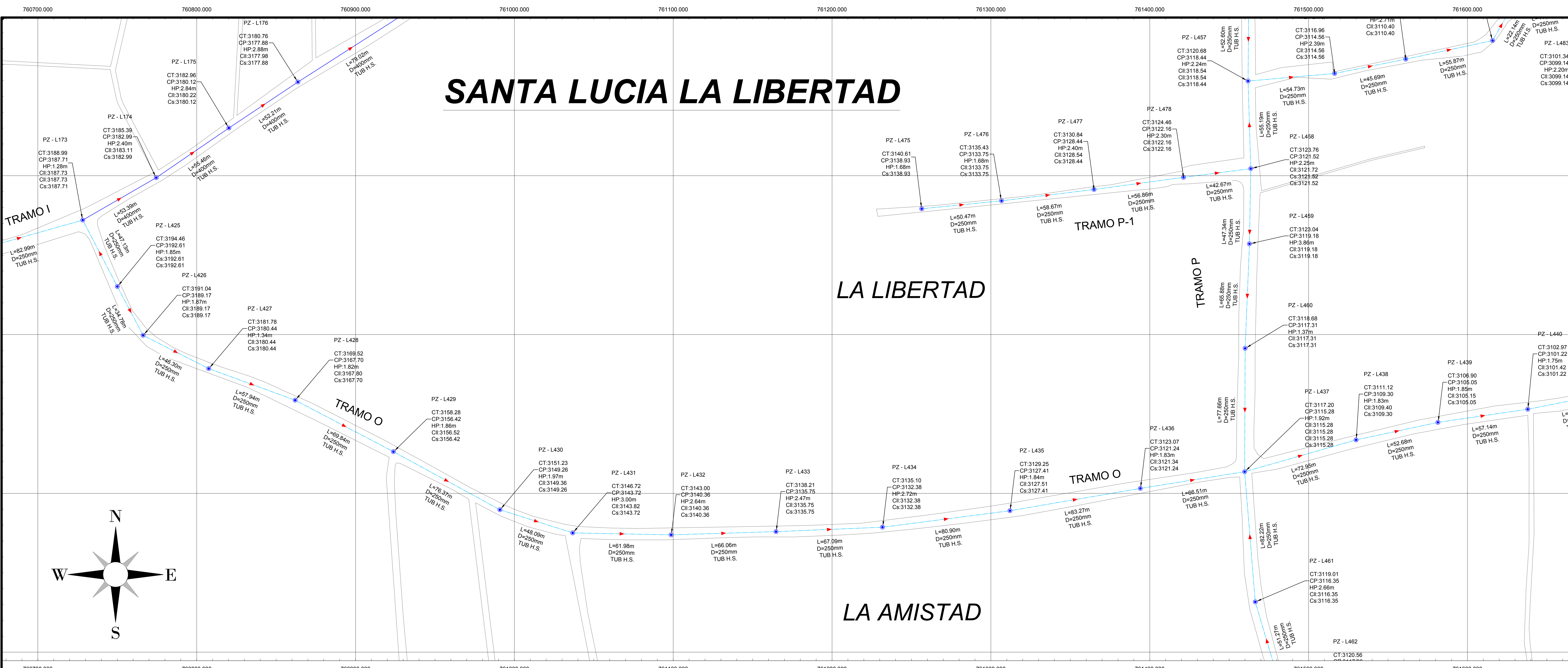




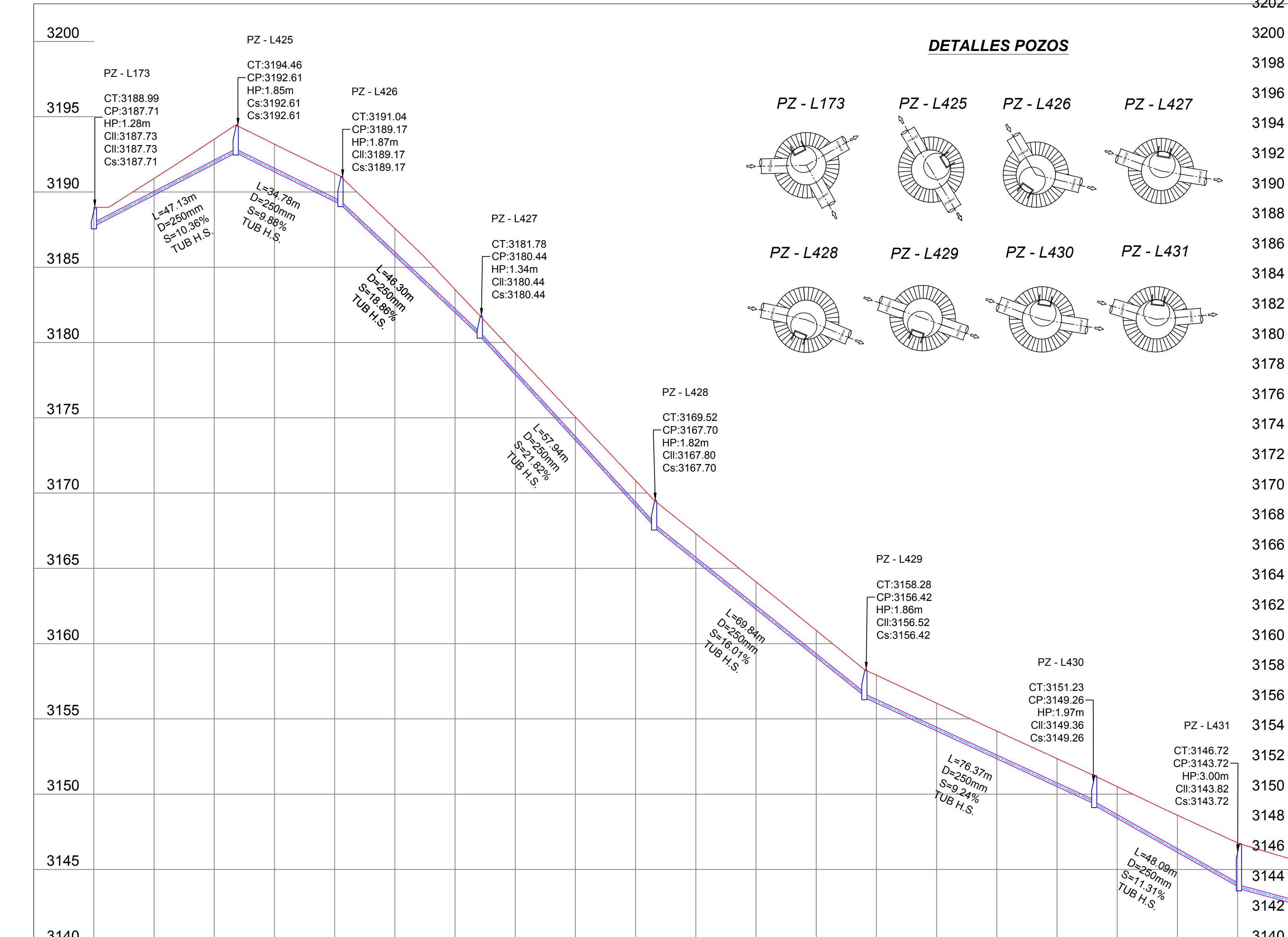




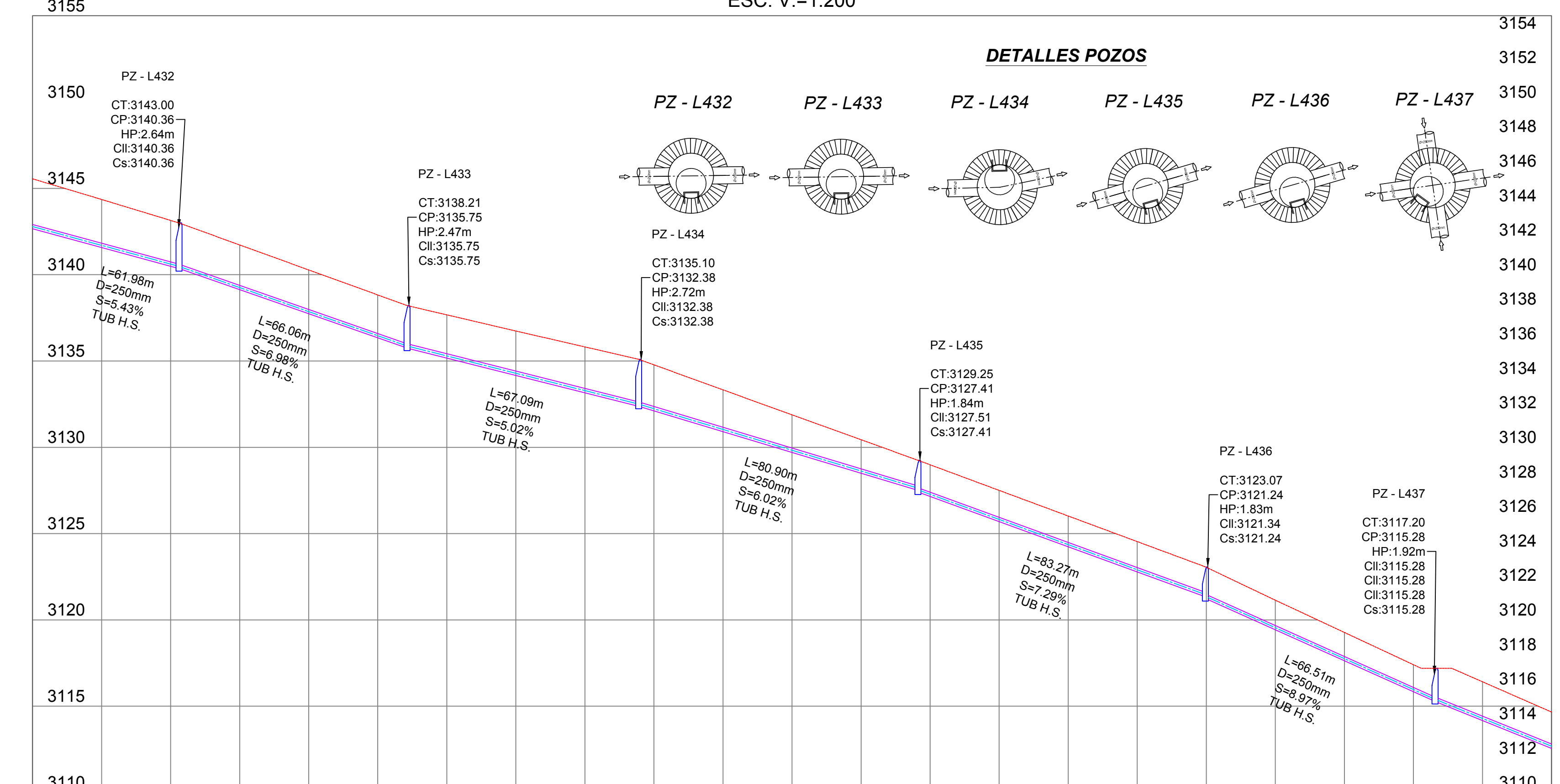
# SANTA LUCIA LA LIBERTAD



PERFIL LONGITUDINAL  
ESC. H.=1:1000  
ESC. V.=1:200



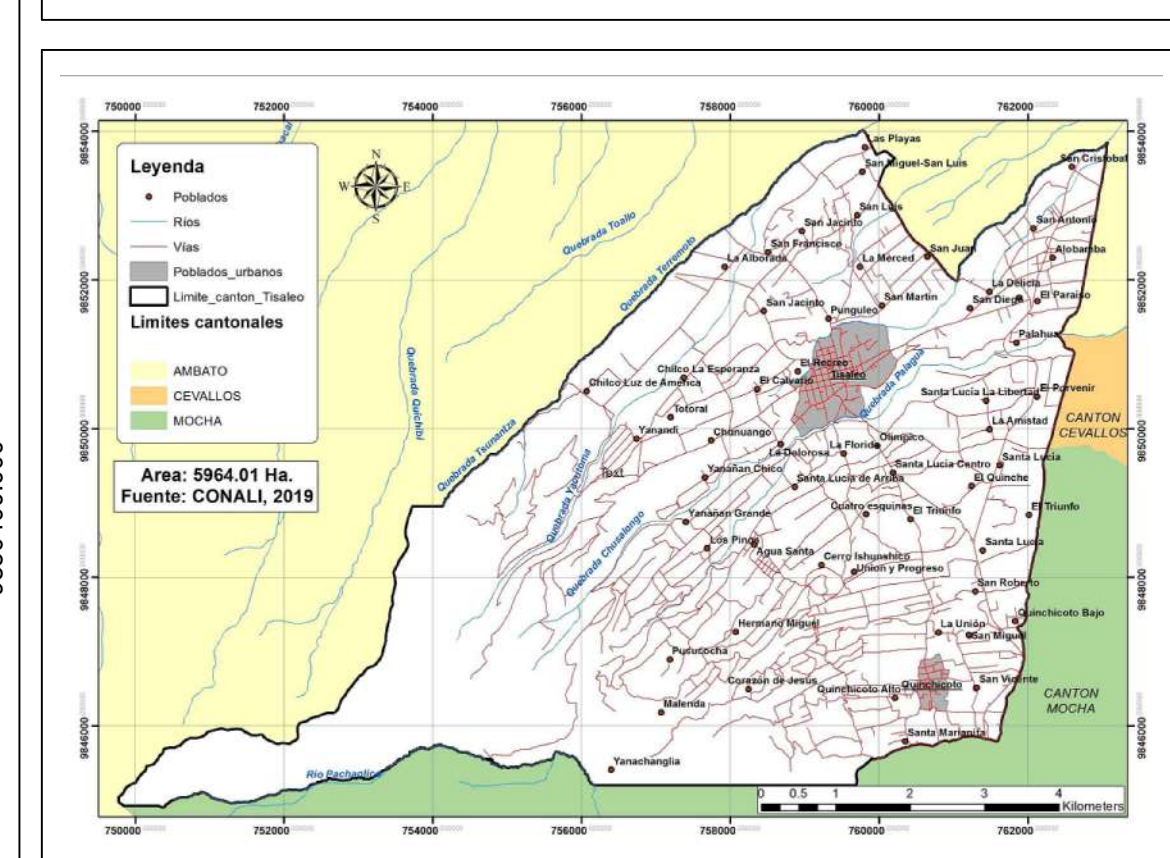
PERFIL LONGITUDINAL  
ESC. H.=1:1000  
ESC. V.=1:200



ABSCISA	0+000	0+020	0+040	0+060	0+080	0+100	0+120	0+140	0+160	0+180	0+200	0+220	0+240	0+260	0+280	0+300	0+320	0+340	0+360	0+380
COTA TERRENO	3189.09	3189.01	3189.02	3189.02	3189.02	3189.02	3189.02	3189.02	3189.02	3189.02	3189.02	3189.02	3189.02	3189.02	3189.02	3189.02	3189.02	3189.02	3189.02	3189.02
COTA PROYECTO	3187.71	3187.71	3187.71	3187.71	3187.71	3187.71	3187.71	3187.71	3187.71	3187.71	3187.71	3187.71	3187.71	3187.71	3187.71	3187.71	3187.71	3187.71	3187.71	3187.71
CORTE	1.28	1.12	1.65	1.85	1.89	1.82	1.54	1.41	1.54	1.68	1.82	1.82	1.80	1.86	1.84	1.84	1.86	2.10	2.47	2.94

ABSCISA	0+420	0+440	0+460	0+480	0+500	0+520	0+540	0+560	0+580	0+600	0+620	0+640	0+660	0+680	0+700	0+720	0+740	0+760	0+780	0+800	0+820
COTA TERRENO	3144.36	3145.14	3147.72	3148.27	3148.83	3149.37	3149.74	3149.81	3149.78	3149.33	3148.88	3148.44	3147.99	3147.55	3147.11	3146.67	3146.23	3145.79	3145.35	3144.91	3144.47
COTA PROYECTO	3141.57	3142.14	3144.72	3145.27	3145.83	3146.37	3146.74	3146.81	3146.78	3146.33	3145.88	3145.44	3144.99	3144.55	3144.11	3143.67	3143.23	3142.79	3142.35	3141.91	3141.47
CORTE	2.78	2.66	2.59	2.54	2.48	2.50	2.57	2.65	2.67	2.42	2.18	1.94	1.84	1.81	1.78	1.76	1.83	1.71	1.64	1.57	2.25

## UBICACIÓN DEL PROYECTO



## DATOS GEOGRÁFICOS

**DATUM:** WGS84 ZONA 17S  
**COORDENADAS UTM:** 759353.24 m E  
 9850780.17 m S  
**ALTURA REFERENCIAL:** 3249 m

## SIMBOLOGÍA

- TUBERÍA PVC D = 250mm
- TUBERÍA PVC D = 300mm
- TUBERÍA H.S. D = 250mm
- TUBERÍA H.S. D = 400mm
- POZO DE REVISIÓN
- PERFIL DEL TERRENO
- CALLES / VÍAS
- LÍMITES TERRITORIALES

## RED DE ALCANTARILLADO SANITARIO SANTA LUCÍA

POZO	ESTE (m)	NORTE (m)	C. TERRENO (m)	C. LLEGADA (m)	C. SALIDA (m)
PZ-L425	760750.08	9850330.26	3194.46	-	3192.61
PZ-L173	760728.31	9850302.06	3188.99	3187.73	3187.71
PZ-L425	760750.08	9850330.26	3194.46	-	3192.61
PZ-L426	760766.30	9850299.50	3191.06	3189.17	3189.17
PZ-L427	760807.59	9850278.56	3181.78	3180.44	3180.44
PZ-L428	760822.01	9850258.67	3169.52	3167.80	3167.70
PZ-L429	760923.88	9850226.26	3158.28	3156.52	3156.42
PZ-L430	760990.93	9850189.69	3151.23	3149.36	3149.26
PZ-L431	761036.75	9850175.10	3146.72	3143.82	3143.72
PZ-L432	761098.71	9850173.88	3143.00	3140.36	3140.36
PZ-L433	761164.74	9850175.89	3138.21	3135.75	3135.75
PZ-L434	761231.77	9850178.69	3135.10	3132.38	3132.38
PZ-L435	761312.00	9850189.06	3129.25	3127.51	3127.41
PZ-L436	761394.08	9850203.12	3123.07	3121.34	3121.24
PZ-L437	761459.78	9850213.64	3117.20	3115.28	3115.28
PZ-L438	761529.91	9850233.67	3111.13	3109.30	3109.30
PZ-L439	761581.42	9850244.70	3105.15	3103.05	3103.05
PZ-L440	761637.96	9850252.96	3102.97	3101.42	3101.22
PZ-L441	761693.87	9850264.04	3097.35	3095.72	3095.62
PZ-L442	761765.22	9850292.78	3092.02	3090.26	3090.16
PZ-L443	761823.88	9850318.73	3087.19	3085.57	3085.37
PZ-L444	761847.91	9850372.79	3083.87	3082.06	3082.06
PZ-L445	761884.83	9850421.50	3079.56	3077.72	3077.72
PZ-L446	761948.84	9850453.78	3074.62	3072.91	3072.91
PZ-L447	762016.46	9850473.48	3073.02	3071.38	3071.38
PZ-L448	762092.89	9850473.25	3071.07	3069.27	3069.17
PZ-L449	762075.67	9850524.61	3065.89	3063.39	3063.39
PZ-L450	762087.06	9850582.24	3062.05	3059.30	3059.30
PZ-L451	762096.24	9850641.49	3057.32	3054.42	3054.42
PZ-L452	762103.79	9850701.02	3055.59	3052.56	3052.56
PZ-L453	762109.48	9850750.98	3053.98	3050.88	3050.88
PZ-L454	762112.41	9850781.91	3051.97	3049.12	3049.12

## G.A.D. MUNICIPAL DEL CANTON TISALEO

REDA DE ALCANTARILLADO SANITARIO SANTA LUCÍA - TRAMO O  
 BARRO LA LIBERTAD

PROVINCIA: TUNGURAHUA CANTÓN: TISALEO SECTOR: SANTA LUCÍA LA LIBERTAD

FECHA: 11 de SEPTIEMBRE 2022 ESCALA: 1:1000

ELABORADO POR: Ing. Galo NÚÑEZ Testa REVISADO POR: Ing. Galo NÚÑEZ Tutor APROBADO POR: Ing. Galo NÚÑEZ Tutor

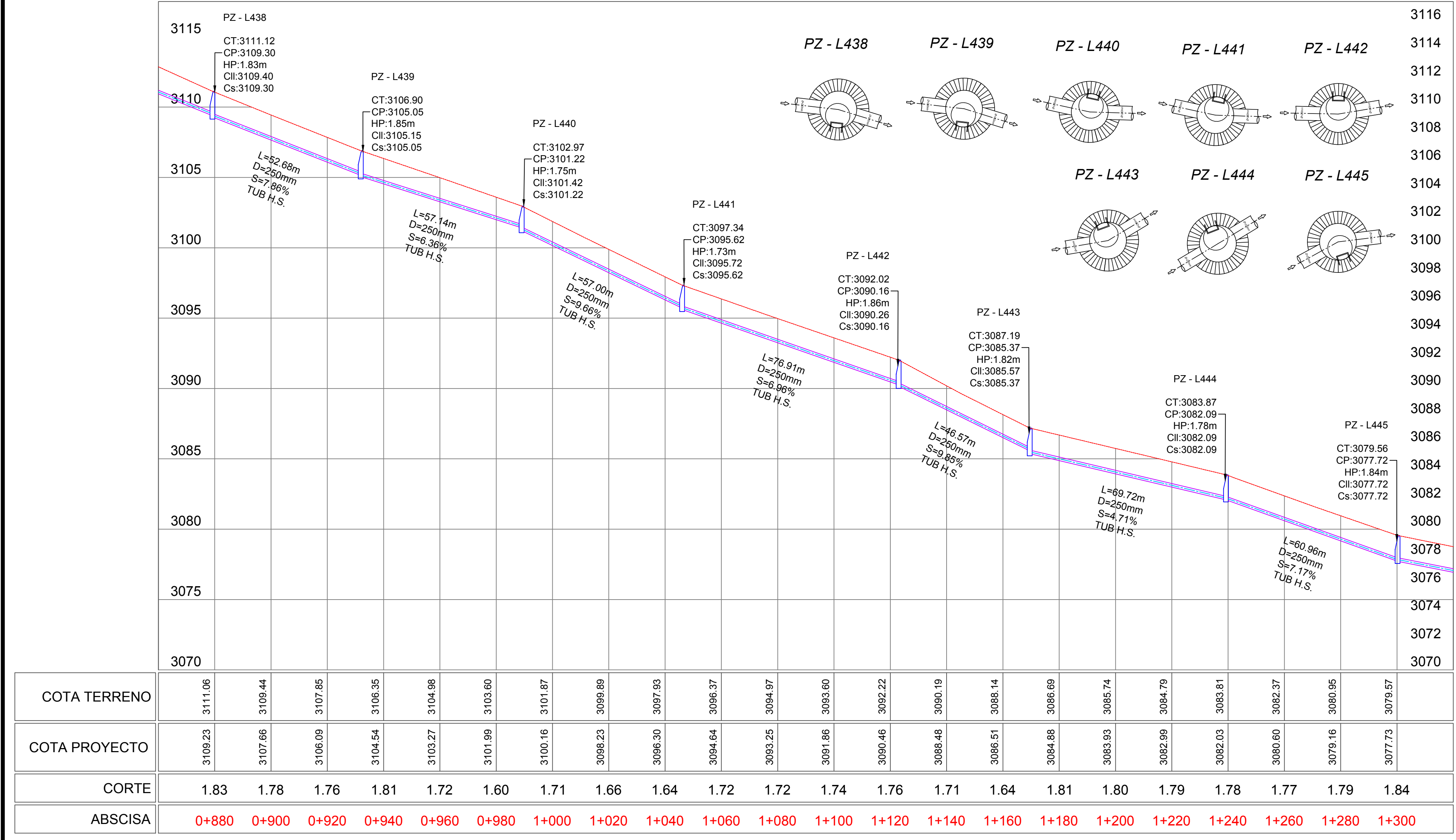
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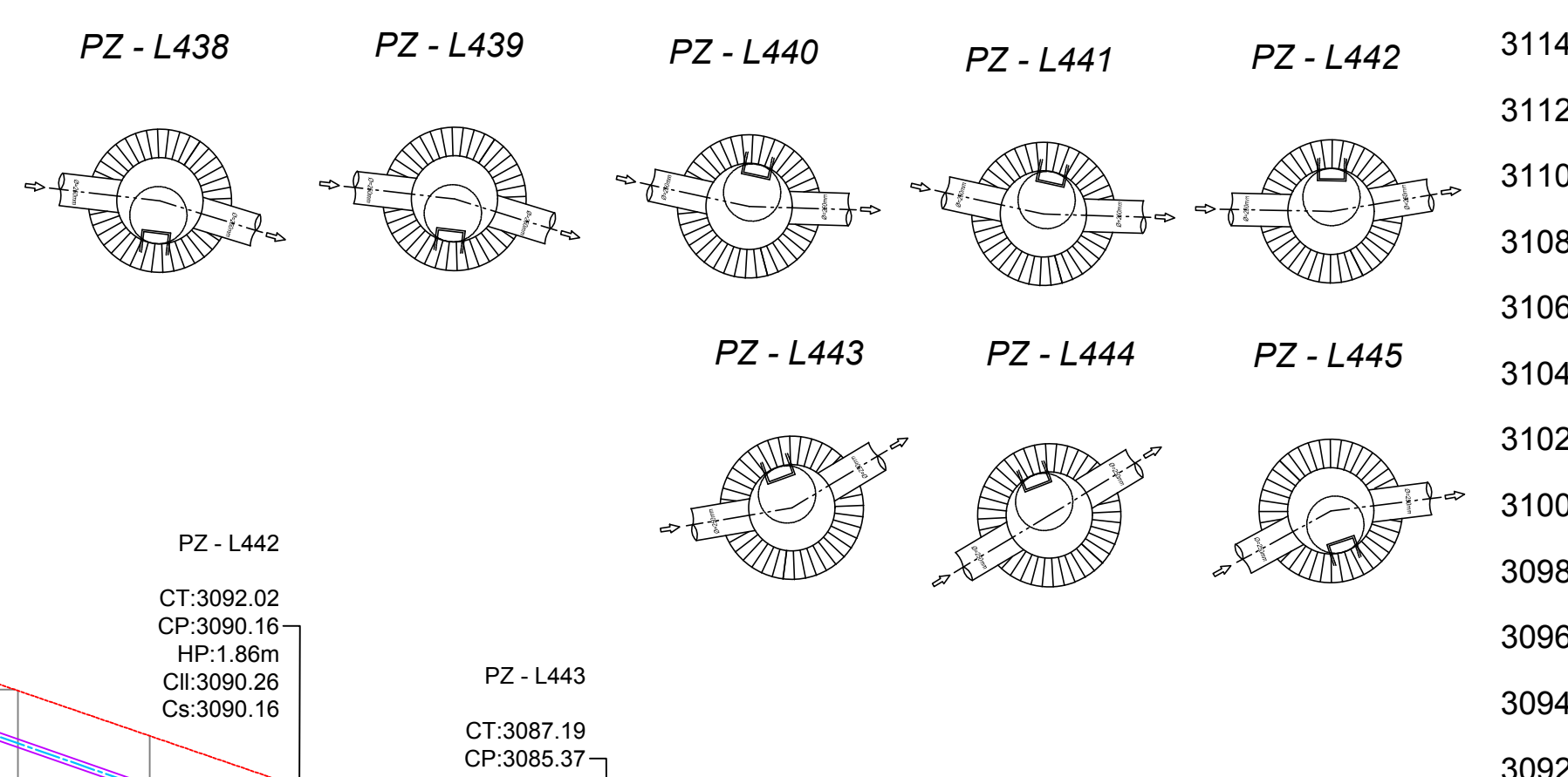


# SANTA LUCIA LA LIBERTAD

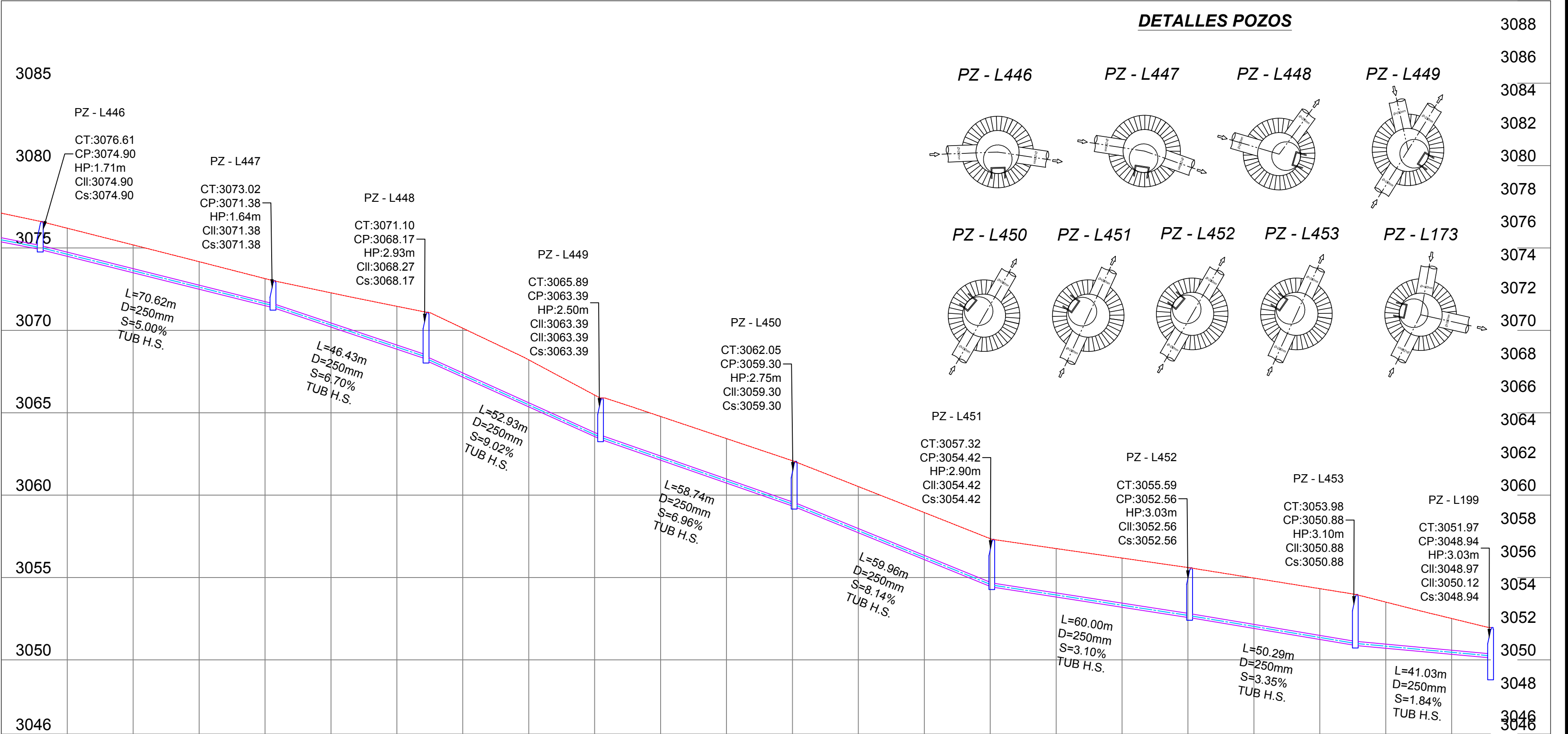
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ESC. H.=1:1000  
ESC. V.=1:200



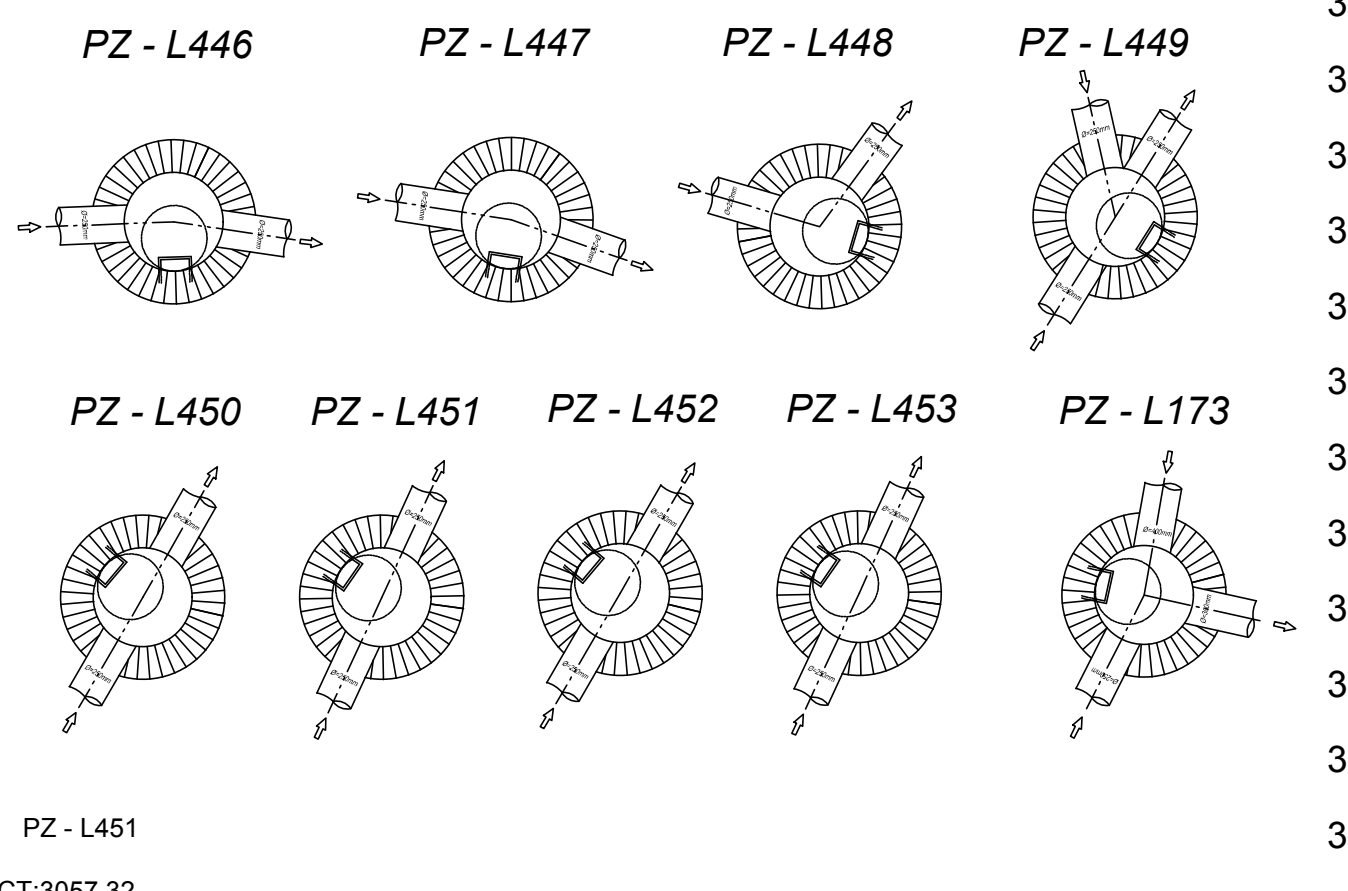
DETALLES POZOS



PERFIL LONGITUDINAL  
ESC. H.=1:1000  
ESC. V.=1:200



DETALLES POZOS



### UBICACIÓN DEL PROYECTO

### DATOS GEOGRÁFICOS

DATUM: WGS84 ZONA 17S  
 COORDENADAS UTM: 759353.24 m E, 9850780.17 m S  
 ALTURA REFERENCIAL: 3249 m

### SIMBOLOGÍA

- TUBERÍA PVC D = 250mm
- TUBERÍA PVC D = 300mm
- TUBERÍA H.S. D = 250mm
- TUBERÍA H.S. D = 400mm
- POZO DE REVISIÓN
- PERFIL DEL TERRENO
- CALES / VÍAS
- LÍMITES TERRITORIALES

L LONGITUD DEL TRAMO  
 D / Ø DIÁMETRO DE TUBERÍA  
 S GRADIENTE HIDRÁULICA  
 CT COTA TERRENO  
 CP COTA PROYECTO  
 CIL COTA DE LLEGADA  
 Cs COTA DE SALIDA  
 HP ALTURA DE POZO

RED DE ALCANTARILLADO SANITARIO SANTA LUCIA - TRAMO O

POZO	ESTE (m)	NORTE (m)	C. TERRENO (m)	C. LLEGADA (m)	C. SALIDA (m)
PZ-L425	760750.08	9850330.26	3194.46	-	3192.61
PZ-L426	760766.30	9850299.50	3191.06	3189.17	3189.17
PZ-L427	760607.59	9850278.56	3187.78	3180.44	3180.44
PZ-L428	760922.01	9850258.67	3189.52	3187.80	3187.70
PZ-L429	760923.88	9850228.26	3158.28	3156.52	3156.42
PZ-L430	760990.93	9850189.69	3151.23	3149.36	3149.26
PZ-L431	761036.75	9850175.10	3146.72	3143.82	3143.72
PZ-L432	761098.71	9850173.88	3143.00	3140.36	3140.36
PZ-L433	761164.74	9850175.89	3138.21	3135.75	3135.75
PZ-L434	761231.77	9850178.69	3135.10	3132.38	3132.38
PZ-L435	761312.00	9850189.06	3129.25	3127.51	3127.41
PZ-L436	761394.08	9850203.12	3123.07	3121.34	3121.24
PZ-L437	761459.78	9850213.64	3117.20	3115.28	3115.28
PZ-L438	761529.91	9850233.67	3111.13	3109.60	3109.30
PZ-L439	761581.42	9850244.70	3105.15	3103.05	3103.05
PZ-L440	761637.96	9850252.96	3102.97	3101.42	3101.22
PZ-L441	761693.87	9850264.04	3097.35	3095.72	3095.62
PZ-L442	761765.22	9850292.78	3092.02	3090.26	3090.16
PZ-L443	761823.88	9850318.73	3087.19	3085.57	3085.37
PZ-L444	761847.91	9850372.79	3083.87	3082.06	3082.06
PZ-L445	761884.83	9850421.30	3079.56	3077.72	3077.72
PZ-L446	761948.84	9850453.78	3076.62	3074.91	3074.91
PZ-L447	762016.46	9850473.46	3073.02	3071.38	3071.38
PZ-L448	762092.89	9850473.25	3071.07	3068.27	3068.17
PZ-L449	762075.67	9850524.61	3065.89	3063.39	3063.39
PZ-L450	762087.06	9850582.24	3062.05	3059.30	3059.30
PZ-L451	762096.24	9850641.49	3057.32	3054.42	3054.42
PZ-L452	762103.79	9850701.02	3055.59	3052.56	3052.56
PZ-L453	762109.48	9850750.98	3053.98	3050.88	3050.88
PZ-L454	762112.41	9850791.91	3051.97	3048.94	3048.94

### G.A.D. MUNICIPAL DEL CANTON TISALEO

"CATASTRO DE LOS SISTEMAS DE ALCANTARILLADO A TRAVÉS DE LA GEOREFERENCIACIÓN Y DIGITALIZACIÓN PARA MEJORAR LA CALIDAD DE INFORMACIÓN SANITARIA DE LA PARROQUIA URBANA TISALEO Y CASERIOS SAN LUIS, SAN FRANCISCO, SAN JUAN, SAN DIEGO, ALDABANA, SANTA LUCIA LA LIBERTAD, SANTA LUCIA-CENTRO, SANTA LUCIA ARRIBA, EL CALVARIO DEL CANTÓN TISALEO, PROVINCIA DE TUNGURAHUA"

CONTIENE: RED DE ALCANTARILLADO SANITARIO SANTA LUCIA - TRAMO O - BARRIO LA LIBERTAD

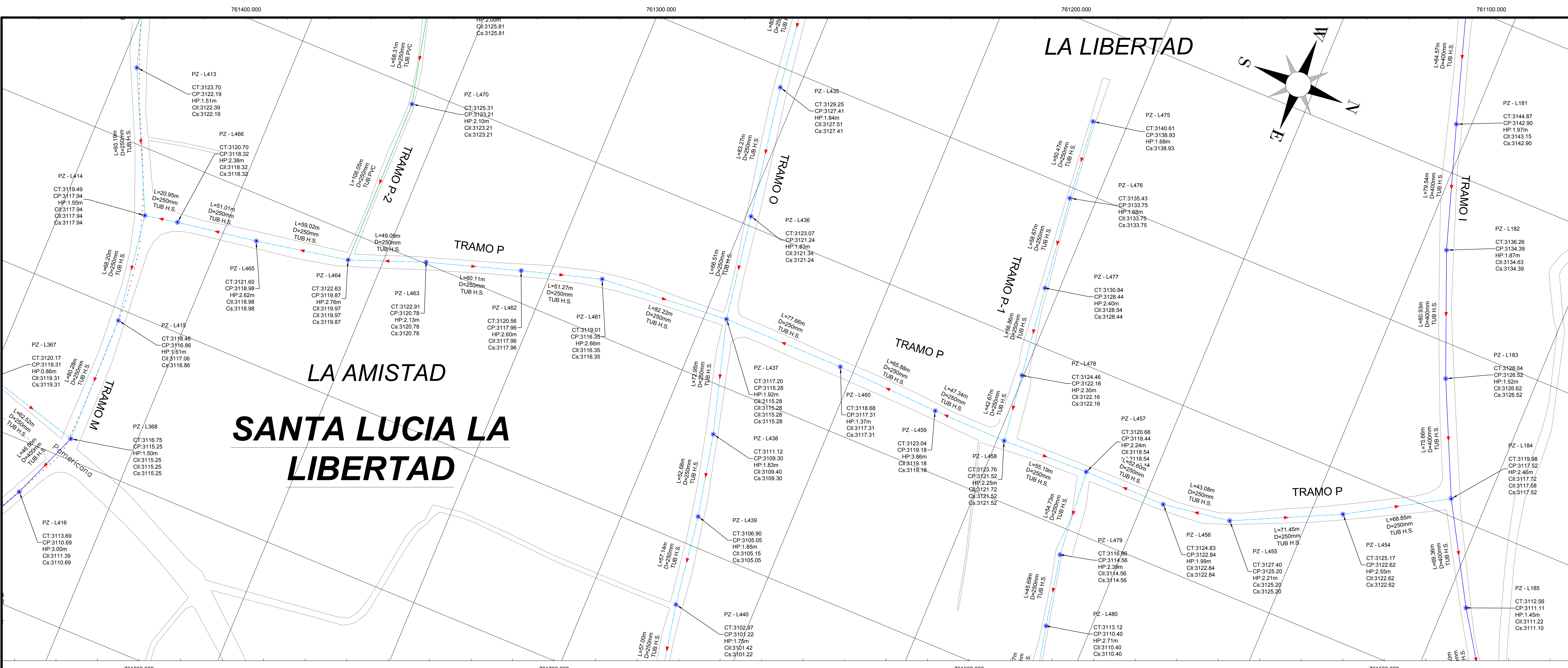
PROVINCIA: TUNGURAHUA CANTÓN: TISALEO SECTOR: SANTA LUCIA LA LIBERTAD

FECHA: SEPTIEMBRE 2022 ESCALA: 1:1000

ELABORADO POR: Ing. Tania Bonilla Testa REVISADO POR: Ing. Galo Nuñez Tutor APROBADO POR: Ing. Galo Nuñez Tutor

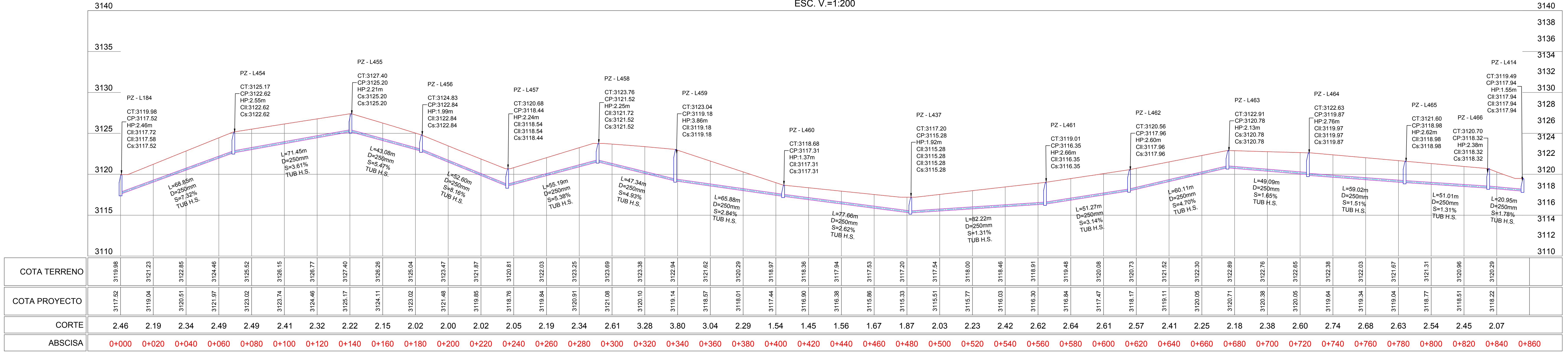
LÁMINA: LÁMINA - 25 TOTAL LÁMINAS: 40





# LA AMISTAD SANTA LUCÍA LA LIBERTAD

**PERFIL LONGITUDINAL**  
ESC. H.=1:1000  
ESC. V.=1:200







### UBICACIÓN DEL PROYECTO

### DATOS GEOGRÁFICOS

**DATUM:** WGS84 ZONA 17S

**COORDENADAS UTM:**  
759353.24 m E  
9850780.17 m S

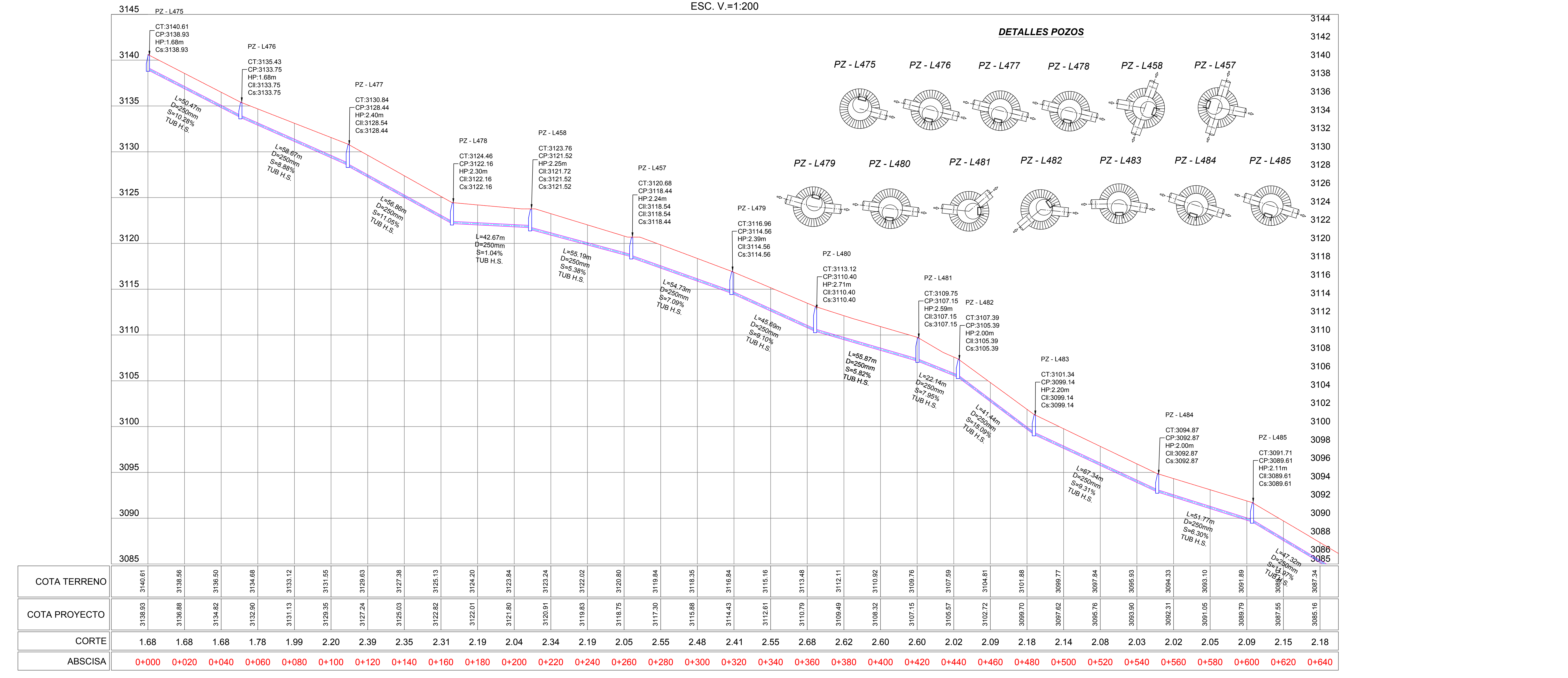
**ALTURA REFERENCIAL:**  
3249 m

### SIMBOLOGÍA

- TUBERÍA PVC D = 250mm
- TUBERÍA PVC D = 300mm
- TUBERÍA H.S. D = 250mm
- TUBERÍA H.S. D = 400mm
- POZO DE REVISIÓN
- PERFIL DEL TERRENO
- CALLES / VÍAS
- LÍMITES TERRITORIALES

L LONGITUD DEL TRAMO  
D / Ø DIÁMETRO DE TUBERÍA  
S GRADIENTE HIDRÁULICA  
CT COTA TERRENO  
CP COTA PROYECTO  
Cil COTA DE LLEGADA  
Cs COTA DE SALIDA  
HP ALTURA DE POZO

PERFIL LONGITUDINAL  
ESC. H.=1:1000  
ESC. V.=1:200



#### RED DE ALCANTARILLADO SANITARIO SANTA LUCÍA

##### SANTA LUCÍA LA LIBERTAD

POZO	ESTE (m)	NORTE (m)	C. TERRENO (m)	C. LLEGADA (m)	C. SALIDA (m)
<b>TRAMO P</b>					
PZ-L455	761455.84	9850554.81	3127.42	-	3125.20
PZ-L454	761424.74	9850619.14	3125.16	3122.62	3122.62
PZ-L184	761389.62	9850678.36	3119.98	3117.58	3117.52
<b>TRAMO P-1</b>					
PZ-L455	761455.84	9850554.81	3127.42	-	3125.20
PZ-L456	761462.31	9850512.22	3124.84	3122.84	3122.84
PZ-L457	761461.90	9850458.62	3120.69	3118.55	3118.45
PZ-L458	761463.61	9850404.46	3123.77	3118.55	3121.52
PZ-L459	761461.90	9850458.62	3120.69	3118.55	3118.45
PZ-L458	761463.61	9850404.46	3123.77	3118.55	3121.52
PZ-L460	761460.05	9850291.29	3118.68	3117.31	3117.31
PZ-L437	761459.76	9850213.64	3117.20	3115.28	3115.28
PZ-L483	761499.00	9850205.18	3122.91	-	3120.78
PZ-L482	761480.99	9850082.53	3120.56	3117.96	3117.96
PZ-L481	761466.43	9850131.69	3119.01	3116.35	3116.35
PZ-L464	761459.76	9850213.64	3117.20	3115.28	3115.28
PZ-L483	761499.00	9850205.18	3122.91	3119.97	3120.78
PZ-L484	761516.47	9849979.30	3122.63	3119.97	3119.87
PZ-L485	761527.60	9849921.35	3121.60	3118.98	3118.98
PZ-L466	761535.68	9849870.98	3120.70	3118.32	3118.32
PZ-L414	761339.55	9848850.39	3119.49	3117.84	3117.84
<b>TRAMO P-2</b>					
PZ-L475	761256.49	9850379.20	3140.61	3133.75	3138.93
PZ-L476	761306.71	9850386.21	3135.43	3133.75	3133.75
PZ-L477	761364.84	9850391.34	3130.84	3128.54	3128.44
PZ-L478	761421.29	9850398.98	3124.46	3122.16	3122.16
PZ-L458	761463.61	9850404.46	3123.77	3121.72	3121.52
PZ-L457	761461.90	9850458.62	3120.69	3118.55	3118.45
PZ-L479	761516.41	9850464.38	3118.96	3114.56	3114.56
PZ-L480	761561.20	9850473.40	3113.12	3110.41	3110.41
PZ-L481	761615.84	9850485.09	3109.75	3107.15	3107.15
PZ-L482	761626.81	9850504.31	3107.39	3105.39	3105.39
PZ-L483	761667.77	9850510.61	3101.34	3099.14	3099.14
PZ-L484	761735.07	9850512.93	3094.87	3092.87	3092.87
PZ-L485	761786.81	9850514.67	3091.71	3089.61	3089.61
PZ-L486	761834.13	9850514.84	3086.14	3083.94	3083.94
PZ-L487	761892.33	9850517.76	3081.04	3078.89	3078.89
PZ-L488	761958.30	9850543.02	3076.89	3074.59	3074.59
PZ-L489	762031.70	9850546.68	3070.69	3068.29	3068.29
PZ-L490	762073.34	9850547.05	3067.58	3065.08	3065.08
PZ-L491	762075.67	9850543.01	3065.89	3063.39	3063.39
<b>TRAMO P-3</b>					
PZ-L467	761217.10	9849911.12	3132.15	3128.85	3130.95
PZ-L468	761300.75	9849946.57	3130.65	3128.85	3128.85
PZ-L469	761353.59	9849965.79	3127.81	3125.81	3125.81
PZ-L470	761410.42	9849978.87	3125.31	3123.21	3123.21
PZ-L464	761516.47	9849979.30	3122.63	3119.97	3119.87

	0+00	0+20	0+40	0+60	0+80	0+100	0+120	0+140	0+160	0+180	0+200	0+220	0+240	0+260	0+280	0+300	0+320	0+340	0+360	0+380	0+400	0+420	0+440	0+460	0+480	0+500	0+520	0+540	0+560	0+580	0+600	0+620	0+640		
COTA TERRENO	3140.61	3138.93	3136.56	3134.68	3132.12	3129.85	3127.38	3125.03	3122.82	3120.21	3118.64	3116.85	3114.84	3112.61	3110.18	3107.76	3105.39	3102.72	3100.88	3098.70	3096.22	3093.76	3091.33	3088.94	3086.51	3084.14	3081.84	3079.59	3077.34	3075.15	3072.91	3070.61	3068.34	3066.11	3063.84
COTA PROYECTO	3138.93	3136.88	3134.82	3132.90	3131.13	3129.35	3127.24	3125.03	3122.82	3120.21	3118.64	3116.85	3114.84	3112.61	3110.18	3107.76	3105.39	3102.72	3100.88	3098.70	3096.22	3093.76	3091.33	3088.94	3086.51	3084.14	3081.84	3079.59	3077.34	3075.15	3072.91	3070.61	3068.34	3066.11	3063.84
CORTE	1.68	1.68	1.68	1.78	1.99	2.20	2.39	2.35	2.31	2.19	2.04	2.34	2.19	2.05	2.55	2.48	2.41	2.55	2.68	2.62	2.60	2.60	2.02	2.09	2.18	2.14	2.08	2.03	2.02	2.05	2.09	2.15	2.18		
ABSCISA	0+00	0+20	0+40	0+60	0+80	0+100	0+120	0+140	0+160	0+180	0+200	0+220	0+240	0+260	0+280	0+300	0+320	0+340	0+360	0+380	0+400	0+420	0+440	0+460	0+480	0+500	0+520	0+540	0+560	0+580	0+600	0+620	0+640		

### G.A.D. MUNICIPAL DEL CANTON TISALEO

"CATASTRO DE LOS SISTEMAS DE ALCANTARILLADO A TRAVÉS DE LA GEOREFERENCIACIÓN Y DIGITALIZACIÓN PARA MEJORAR LA CALIDAD DE INFORMACIÓN SANITARIA DE LA PARROQUIA URBANA TISALEO Y CASERIOS SAN LUIS, SAN FRANCISCO, SAN JUAN, SAN DIEGO, ALDABANA, SANTA LUCÍA LA LIBERTAD, SANTA LUCÍA-CENTRO, SANTA LUCÍA ARRIBA, EL CALVARIO DEL CANTÓN TISALEO, PROVINCIA DE TUNGURAHUA"

CONTIENE: RED DE ALCANTARILLADO SANITARIO SANTA LUCÍA - TRAMO P-1 BARRIO LA LIBERTAD

PROVINCIA: TUNGURAHUA CANTÓN: TISALEO SECTOR: SANTA LUCÍA LA LIBERTAD

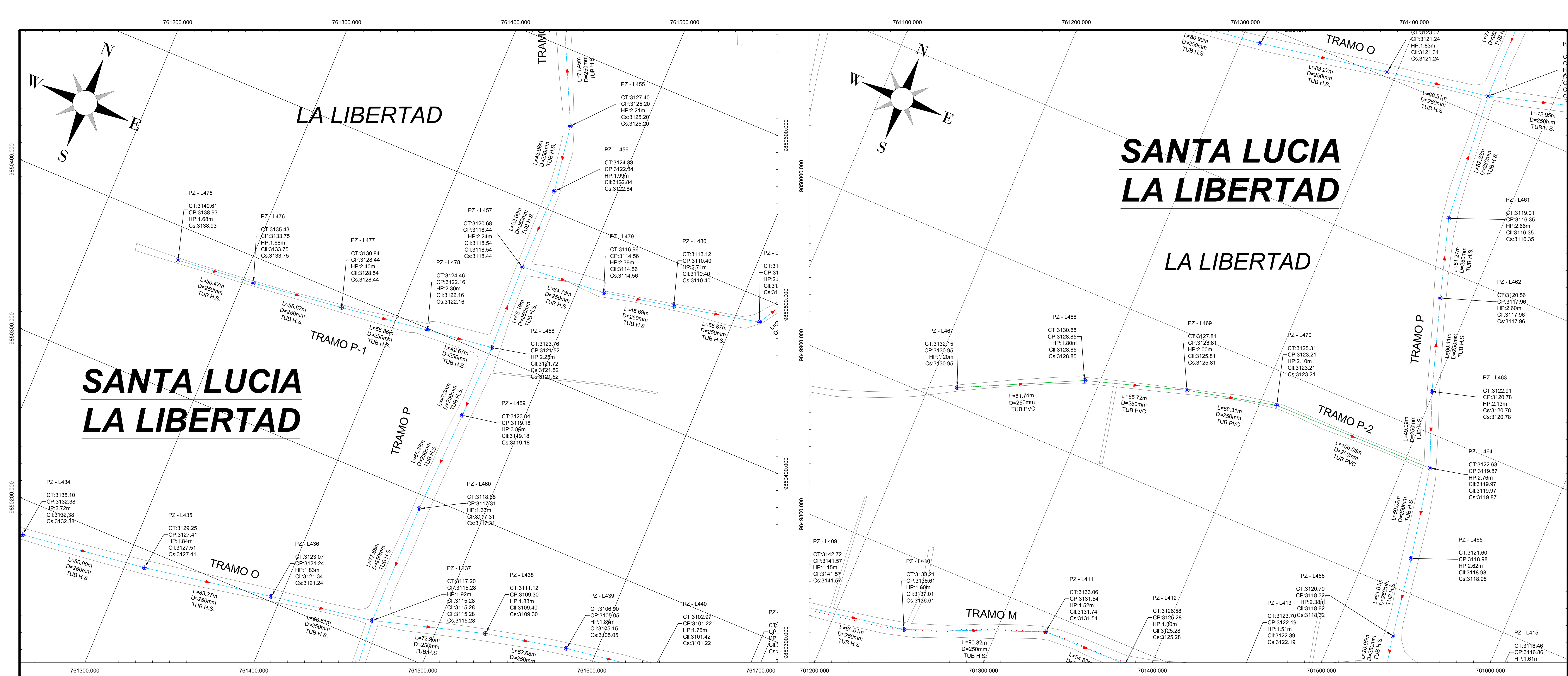
FECHA: SEPTIEMBRE 2022 ESCALA: 1:1000

ELABORADO POR: REVISADO POR: APROBADO POR: LÁMINA: LÁMINA - 27

TOTAL LÁMINAS: 40

Egita Tambo Bonita Testa Ing. Gato Núñez Tutor Ing. Gato Núñez Tutor





### UBICACIÓN DEL PROYECTO

### DATOS GEOGRÁFICOS

**DATUM:** WGS84 ZONA 17S

**COORDENADAS UTM:**  
759353.24 m E  
9850780.17 m S

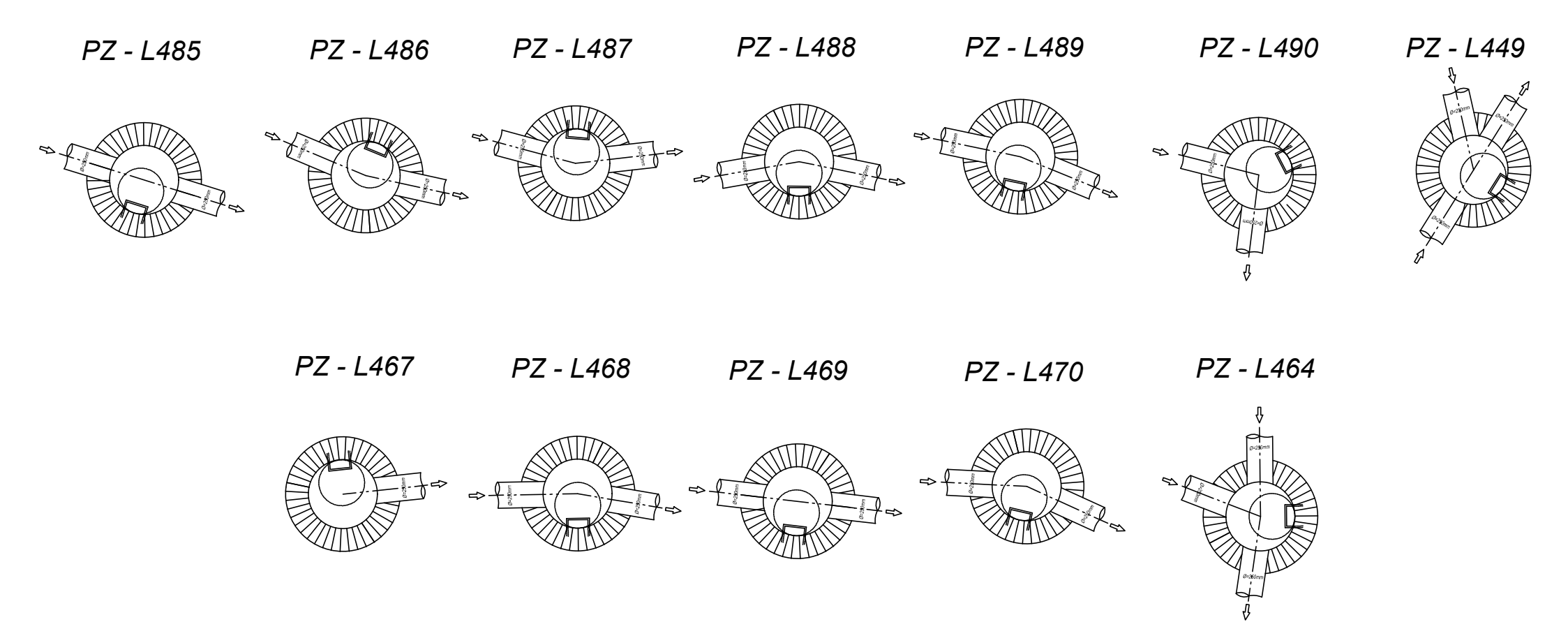
**ALTURA REFERENCIAL:**  
3249 m

### SIMBOLOGÍA

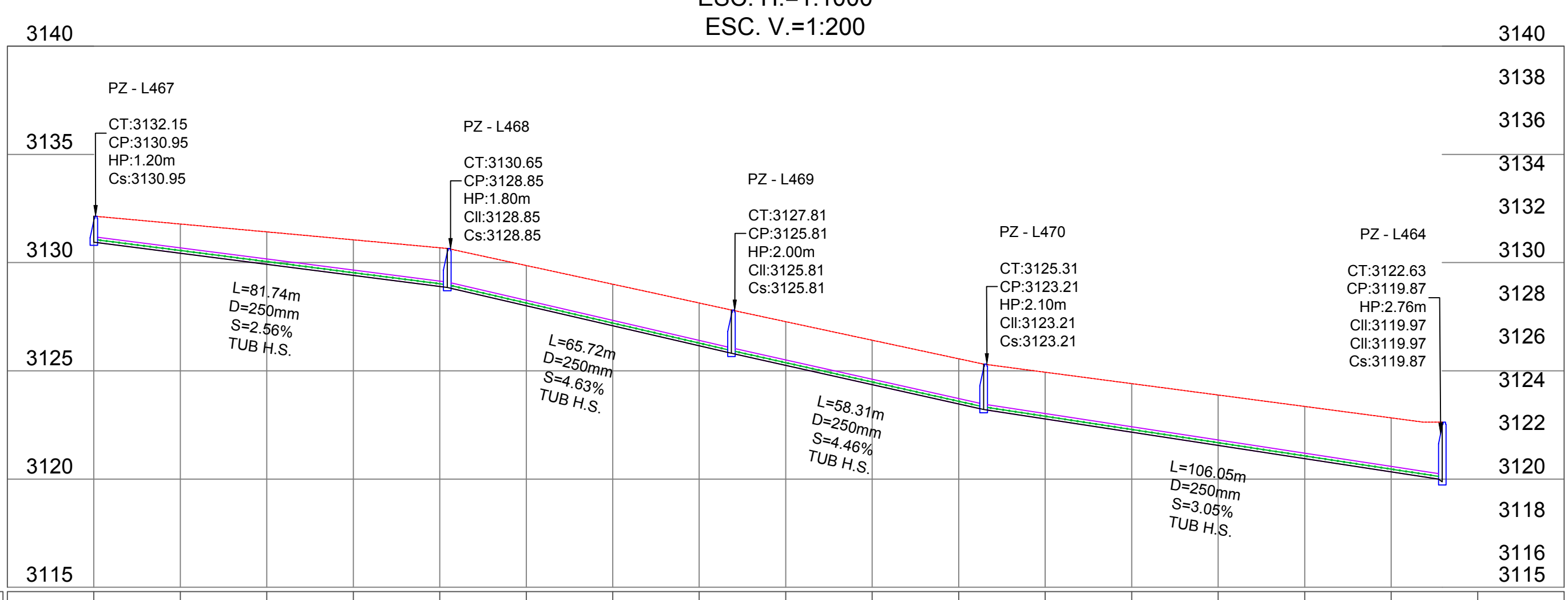
- TUBERÍA PVC D = 250mm
- TUBERÍA PVC D = 300mm
- TUBERÍA H.S. D = 250mm
- TUBERÍA H.S. D = 400mm
- POZO DE REVISIÓN
- PERFIL DEL TERRENO
- CALLES / VÍAS
- LÍMITES TERRITORIALES

L LONGITUD DEL TRAMO  
D / Ø DIÁMETRO DE TUBERÍA  
S GRADIENTE HIDRÁULICA  
CT COTA TERRENO  
CP COTA PROYECTO  
CII COTA DE LLEGADA  
CIII COTA DE SALIDA  
HP ALTURA DE POZO

#### DETALLES POZOS

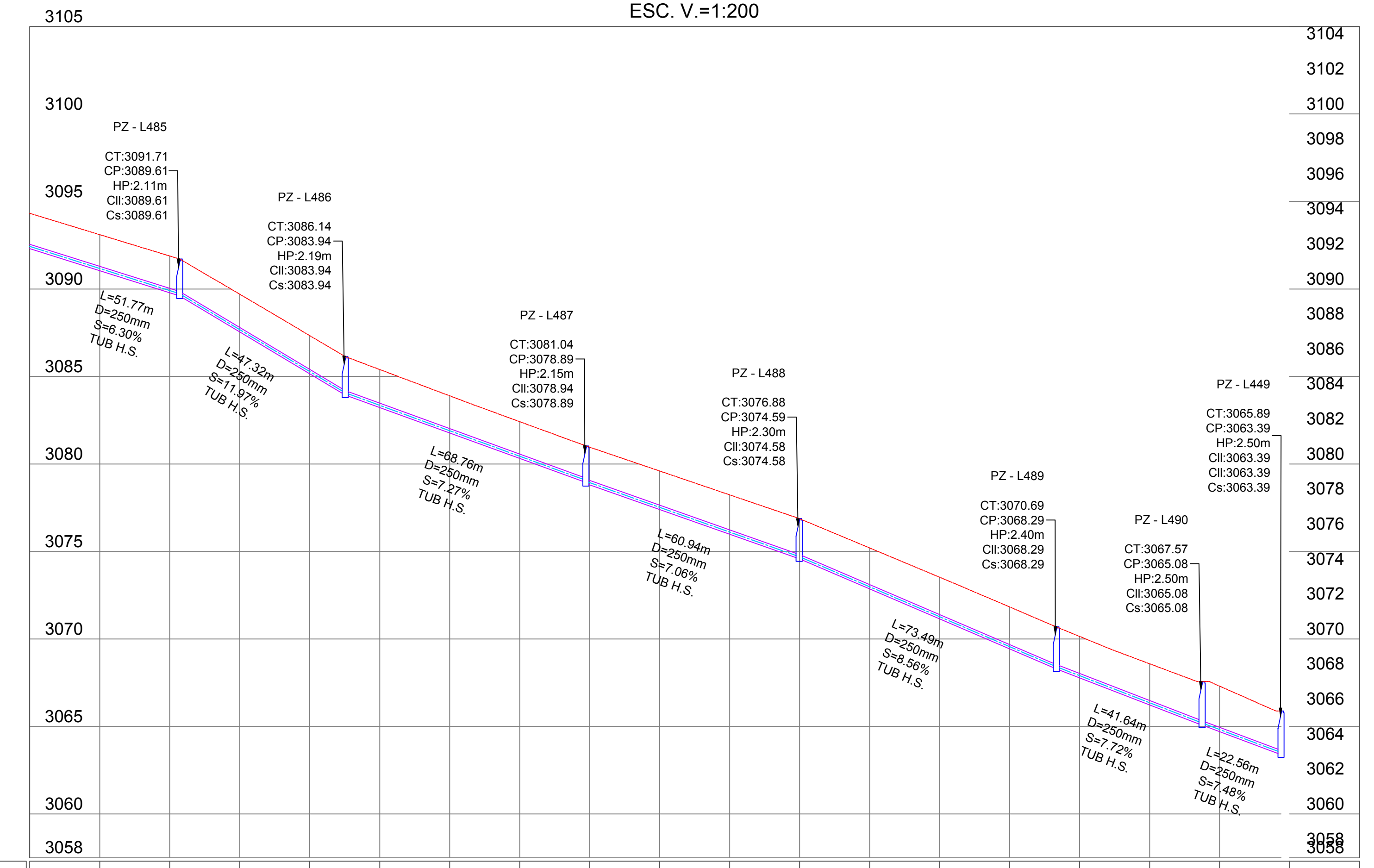


#### PERFIL LONGITUDINAL



COTA TERRENO	ESTE (m)	NORTE (m)	C. TERRENO (m)	C. LLEGADA (m)	C. SALIDA (m)
PZ-L485	781455.84	985054.81	3127.42	-	3125.20
PZ-L454	781424.74	985019.14	3125.16	3122.62	3122.62
PZ-L184	781389.62	9850678.36	3119.98	3117.58	3117.52
PZ-L455	781455.84	985054.81	3127.42	-	3125.20
PZ-L456	781462.31	9850512.22	3124.84	3122.84	3122.84
PZ-L457	781461.90	9850458.62	3120.69	3118.45	3118.45
PZ-L458	781463.61	9850404.46	3123.77	3118.55	3121.52
PZ-L457	781461.90	9850458.62	3120.69	3118.45	3118.45
PZ-L458	781463.61	9850404.46	3123.77	3118.55	3121.52
PZ-L459	781462.18	9850331.72	3123.04	3119.18	3119.18
PZ-L460	781460.05	9850291.29	3118.68	3117.31	3117.31
PZ-L437	781459.76	9850213.64	3117.20	3115.28	3115.28
PZ-L463	781499.00	9850025.18	3122.91	-	3120.78
PZ-L462	781480.99	9850082.53	3120.56	3117.96	3117.96
PZ-L461	781466.43	9850131.69	3119.01	3116.35	3116.35
PZ-L437	781459.76	9850213.64	3117.20	3115.28	3115.28
PZ-L463	781499.00	9850025.18	3122.91	-	3120.78
PZ-L464	781516.47	9849979.30	3122.63	3119.97	3119.97
PZ-L465	781527.60	9849921.35	3121.60	3118.98	3118.98
PZ-L466	781535.68	9849870.98	3120.70	3118.32	3118.32
PZ-L414	781339.55	9848850.38	3119.49	3117.94	3117.94
PZ-L475	781256.49	9850379.20	3140.61	3133.75	3138.93
PZ-L476	781306.71	9850384.21	3135.43	3133.75	3133.75
PZ-L477	781364.94	9850391.34	3130.84	3128.54	3128.44
PZ-L478	781421.29	9850398.98	3124.46	3122.16	3122.16
PZ-L458	781463.61	9850404.46	3123.77	3121.72	3121.52
PZ-L457	781461.90	9850458.62	3120.69	3118.55	3118.45
PZ-L479	781516.41	9850464.38	3118.96	3114.56	3114.56
PZ-L480	781561.20	9850473.40	3113.12	3110.41	3110.41
PZ-L481	781515.84	9850465.09	3109.75	3107.15	3107.15
PZ-L482	781626.81	9850504.31	3107.39	3105.39	3105.39
PZ-L483	781667.77	9850510.61	3101.34	3099.14	3099.14
PZ-L484	781715.84	9850465.09	3109.75	3107.15	3107.15
PZ-L485	781786.81	9850514.67	3091.71	3089.61	3089.61
PZ-L486	781834.13	9850514.84	3086.14	3083.94	3083.94
PZ-L487	781822.83	9850517.76	3081.04	3078.89	3078.89
PZ-L488	781958.30	9850543.02	3078.89	3074.59	3074.59
PZ-L489	782031.70	9850546.68	3070.69	3068.29	3068.29
PZ-L490	782073.34	9850547.05	3067.58	3065.08	3065.08
PZ-L491	782075.67	9850544.61	3065.89	3063.39	3063.39
PZ-L467	781217.10	9849911.12	3132.15	3128.85	3130.95
PZ-L468	781300.75	9849946.57	3130.65	3128.85	3128.85
PZ-L469	781353.59	9849965.79	3127.81	3125.81	3125.81
PZ-L470	781410.42	9849978.87	3125.31	3123.21	3123.21
PZ-L464	781516.47	9849979.30	3122.63	3119.97	3119.97

#### PERFIL LONGITUDINAL



COTA TERRENO	COTA PROYECTO	CORTE	ABSCISA
3105	3095.10	2.05	+580
3100	3089.10	2.09	+600
3095	3083.10	2.15	+620
3090	3077.10	2.18	+640
3085	3071.10	2.18	+660
3080	3065.10	2.13	+680
3075	3059.10	2.10	+700
3070	3053.10	2.15	+720
3065	3047.10	2.20	+740
3060	3041.10	2.25	+760
3055	3035.10	2.30	+780
3050	3029.10	2.34	+800
3045	3023.10	2.38	+820
3040	3017.10	2.40	+840
3035	3011.10	2.37	+860
3030	3005.10	2.35	+880
3025	2999.10	2.61	+900
3020	2993.10		+920

### G.A.D. MUNICIPAL DEL CANTON TISALEO

"CATASTRO DE LOS SISTEMAS DE ALICANTARILLO A TRAVÉS DE LA GEOREFERENCIACIÓN Y DIGITALIZACIÓN PARA MEJORAR LA CALIDAD DE INFORMACIÓN SANITARIA DE LA PARROQUIA URBANA TISALEO Y CASERIOS SAN LUIS, SAN FRANCISCO, SAN JUAN, SAN DIEGO, ALDAMBA, SANTA LUCIA LIBERTAD, SANTA LUCIA-CENTRO, SANTA LUCIA ARREA, EL CALVARIO DEL CANTÓN TISALEO, PROVINCIA DE TUNGURAHUA"

CONTIENE: RED DE ALICANTARILLO SANITARIO SANTA LUCIA - TRAMO P-1, TRAMO P-2, TRAMO M, TRAMO O, SECTOR: SANTA LUCIA LA LIBERTAD

PROVINCIA: TUNGURAHUA CANTÓN: TISALEO

FECHA: SEPTIEMBRE, 2022

ELABORADO POR: Ing. Tania Bonita Testa

REVISADO POR: Ing. Galo Núñez Tutor

APROBADO POR: Ing. Galo Núñez Tutor

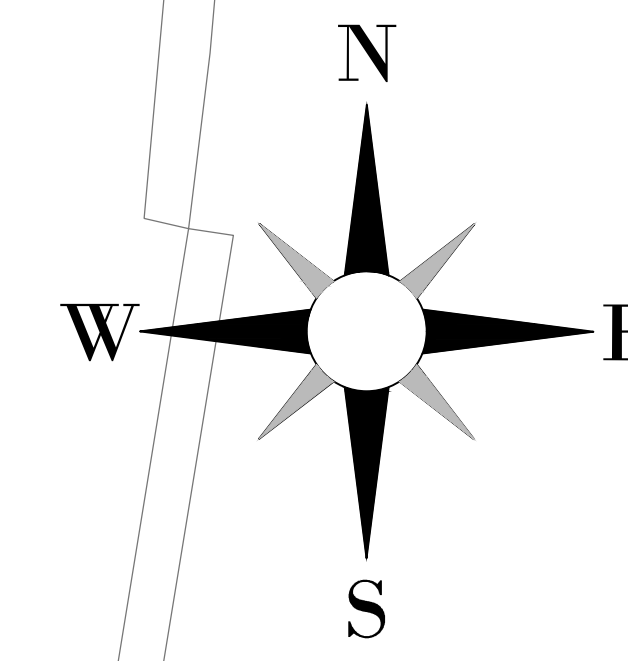
LÁMINA: LÁMINA - 28

TOTAL LÁMINAS: 40

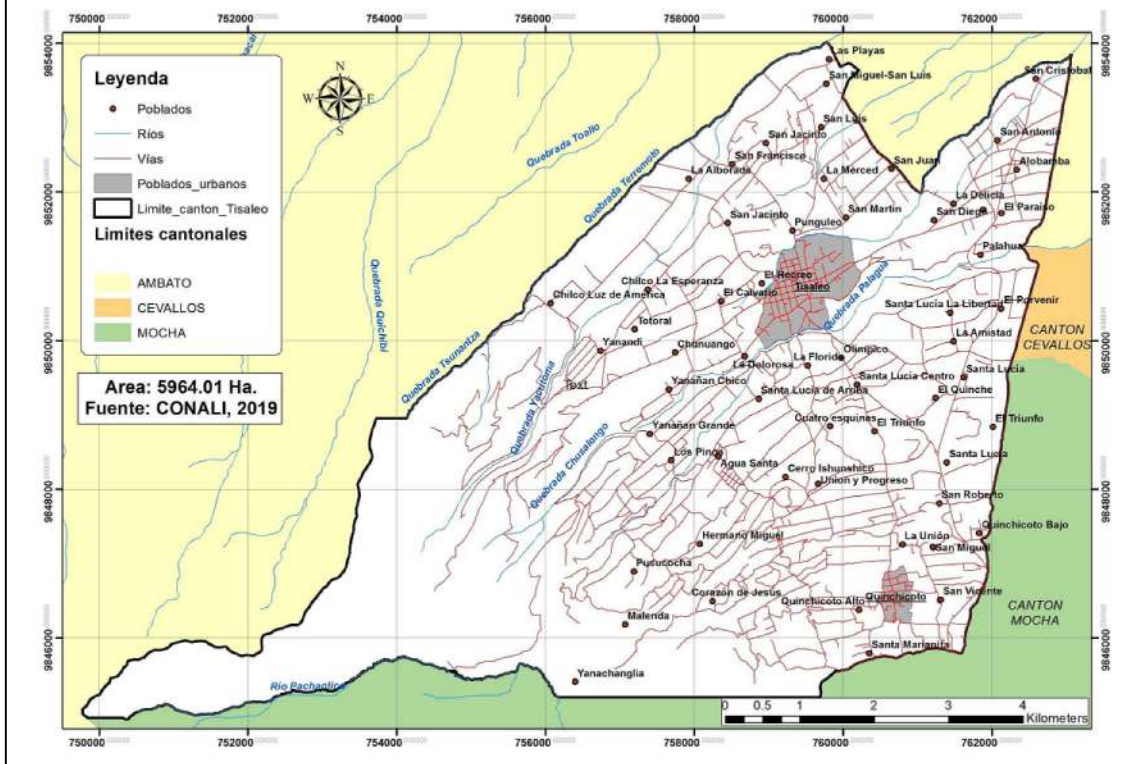


# SANTA LUCIA LA LIBERTAD

## OLIMPICO



### UBICACIÓN DEL PROYECTO



### DATOS GEOGRÁFICOS

**DATUM:** WGS84 ZONA 17S

**COORDENADAS UTM:**  
759353.24 m E  
9850780.17 m S

**ALTURA REFERENCIAL:**  
3249 m

### SIMBOLOGÍA

- TUBERÍA PVC D = 250mm
- TUBERÍA PVC D = 300mm
- TUBERÍA H.S. D = 250mm
- TUBERÍA H.S. D = 400mm
- POZO DE REVISIÓN
- PERFIL DEL TERRENO
- CALLES / VÍAS
- LÍMITES TERRITORIALES

- L LONGITUD DEL TRAMO
- D / Ø DIÁMETRO DE TUBERÍA
- S GRADIENTE HIDRÁULICA
- CT COTA TERRENO
- CP COTA PROYECTO
- CII COTA DE LLEGADA
- Cs COTA DE SALIDA
- HP ALTURA DE POZO

### RED DE ALCANTARILLADO SANITARIO SANTA LUCIA

POZO	ESTE (m)	NORTE (m)	C. TERRENO (m)	C. LLEGADA (m)	C. SALIDA (m)
<b>TRAMO M</b>					
PZ-L396	760325.70	9849925.84	3215.71	3215.71	3214.40
PZ-L397	760325.70	9849925.84	3215.71	3215.71	3214.40
PZ-L398	760325.70	9849925.84	3215.71	3215.71	3214.40
PZ-L399	760325.70	9849925.84	3215.71	3215.71	3214.40
PZ-L400	760325.70	9849925.84	3215.71	3215.71	3214.40
PZ-L401	760325.70	9849925.84	3215.71	3215.71	3214.40
PZ-L402	760325.70	9849925.84	3215.71	3215.71	3214.40
PZ-L403	760325.70	9849925.84	3215.71	3215.71	3214.40
PZ-L404	760325.70	9849925.84	3215.71	3215.71	3214.40
PZ-L405	760325.70	9849925.84	3215.71	3215.71	3214.40
<b>TRAMO M-2</b>					
PZ-L378	760425.21	9849924.53	3209.94	3209.94	3208.52
PZ-L379	760425.21	9849924.53	3209.94	3209.94	3208.52
PZ-L380	760425.21	9849924.53	3209.94	3209.94	3208.52
PZ-L381	760425.21	9849924.53	3209.94	3209.94	3208.52
PZ-L382	760425.21	9849924.53	3209.94	3209.94	3208.52
PZ-L383	760425.21	9849924.53	3209.94	3209.94	3208.52
PZ-L384	760425.21	9849924.53	3209.94	3209.94	3208.52
PZ-L385	760425.21	9849924.53	3209.94	3209.94	3208.52
PZ-L386	760425.21	9849924.53	3209.94	3209.94	3208.52
PZ-L387	760425.21	9849924.53	3209.94	3209.94	3208.52
PZ-L388	760425.21	9849924.53	3209.94	3209.94	3208.52
PZ-L389	760425.21	9849924.53	3209.94	3209.94	3208.52
PZ-L390	760425.21	9849924.53	3209.94	3209.94	3208.52
PZ-L391	760425.21	9849924.53	3209.94	3209.94	3208.52
PZ-L392	760425.21	9849924.53	3209.94	3209.94	3208.52
PZ-L393	760425.21	9849924.53	3209.94	3209.94	3208.52
PZ-L394	760425.21	9849924.53	3209.94	3209.94	3208.52
PZ-L395	760425.21	9849924.53	3209.94	3209.94	3208.52
PZ-L396	760425.21	9849924.53	3209.94	3209.94	3208.52
PZ-L397	760425.21	9849924.53	3209.94	3209.94	3208.52
PZ-L398	760425.21	9849924.53	3209.94	3209.94	3208.52
PZ-L399	760425.21	9849924.53	3209.94	3209.94	3208.52
PZ-L400	760425.21	9849924.53	3209.94	3209.94	3208.52
PZ-L401	760425.21	9849924.53	3209.94	3209.94	3208.52
PZ-L402	760425.21	9849924.53	3209.94	3209.94	3208.52
PZ-L403	760425.21	9849924.53	3209.94	3209.94	3208.52
PZ-L404	760425.21	9849924.53	3209.94	3209.94	3208.52
PZ-L405	760425.21	9849924.53	3209.94	3209.94	3208.52
<b>TRAMO M-3</b>					
PZ-L324	760241.34	9849727.57	3223.17	3223.17	3221.12
PZ-L325	760241.34	9849727.57	3223.17	3223.17	3221.12
PZ-L326	760241.34	9849727.57	3223.17	3223.17	3221.12
PZ-L327	760241.34	9849727.57	3223.17	3223.17	3221.12
PZ-L328	760241.34	9849727.57	3223.17	3223.17	3221.12
PZ-L329	760241.34	9849727.57	3223.17	3223.17	3221.12
PZ-L330	760241.34	9849727.57	3223.17	3223.17	3221.12
PZ-L331	760241.34	9849727.57	3223.17	3223.17	3221.12
PZ-L332	760241.34	9849727.57	3223.17	3223.17	3221.12
PZ-L333	760241.34	9849727.57	3223.17	3223.17	3221.12
PZ-L334	760241.34	9849727.57	3223.17	3223.17	3221.12
PZ-L335	760241.34	9849727.57	3223.17	3223.17	3221.12
PZ-L336	760241.34	9849727.57	3223.17	3223.17	3221.12
PZ-L337	760241.34	9849727.57	3223.17	3223.17	3221.12
PZ-L338	760241.34	9849727.57	3223.17	3223.17	3221.12
PZ-L339	760241.34	9849727.57	3223.17	3223.17	3221.12
PZ-L340	760241.34	9849727.57	3223.17	3223.17	3221.12
PZ-L341	760241.34	9849727.57	3223.17	3223.17	3221.12
PZ-L342	760241.34	9849727.57	3223.17	3223.17	3221.12
PZ-L343	760241.34	9849727.57	3223.17	3223.17	3221.12
PZ-L344	760241.34	9849727.57	3223.17	3223.17	3221.12
PZ-L345	760241.34	9849727.57	3223.17	3223.17	3221.12
PZ-L346	760241.34	9849727.57	3223.17	3223.17	3221.12
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PZ-L348	760241.34	9849727.57	3223.17	3223.17	3221.12
PZ-L349	760241.34	9849727.57	3223.17	3223.17	3221.12
PZ-L350	760241.34	9849727.57	3223.17	3223.17	3221.12
PZ-L351	760241.34	9849727.57	3223.17	3223.17	3221.12
PZ-L352	760241.34	9849727.57	3223.17	3223.17	3221.12
PZ-L353	760241.34	9849727.57	3223.17	3223.17	3221.12
PZ-L354	760241.34	9849727.57	3223.17	3223.17	3221.12
PZ-L355	760241.34	9849727.57	3223.17	3223.17	3221.12

**G.A.D. MUNICIPAL DEL CANTÓN TISALEO**

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CONTIENE: RED DE ALCANTARILLADO SANITARIO SANTA LUCIA - TRAMO M BARRO OLIMPICO - LA AMISTAD

PROVINCIA: TUNGURAHUA CANTÓN: TISALEO SECTOR: SANTA LUCIA LA LIBERTAD

FECHA: 11 DE SEPTIEMBRE DE 2022 ESCALA: 1:1000

ELABORADO POR: Ing. Gato Núñez Tutor REVISADO POR: Ing. Gato Núñez Tutor APROBADO POR: Ing. Gato Núñez Tutor

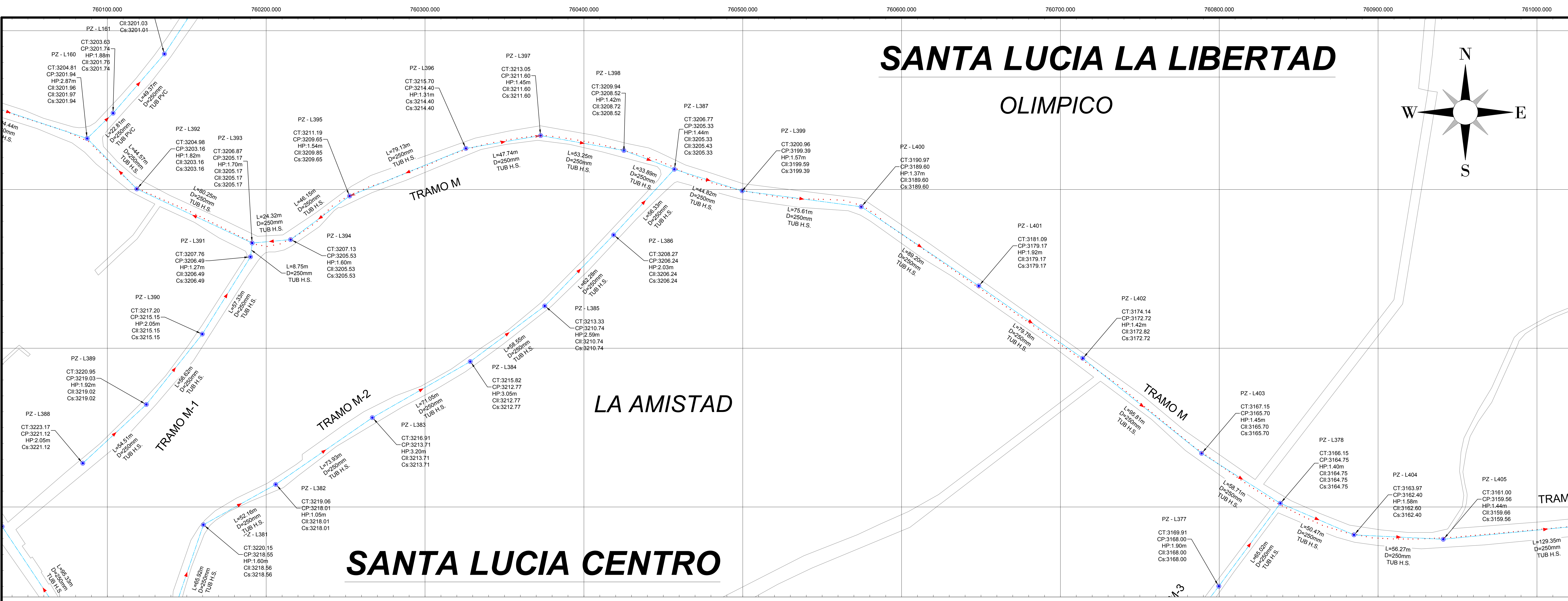
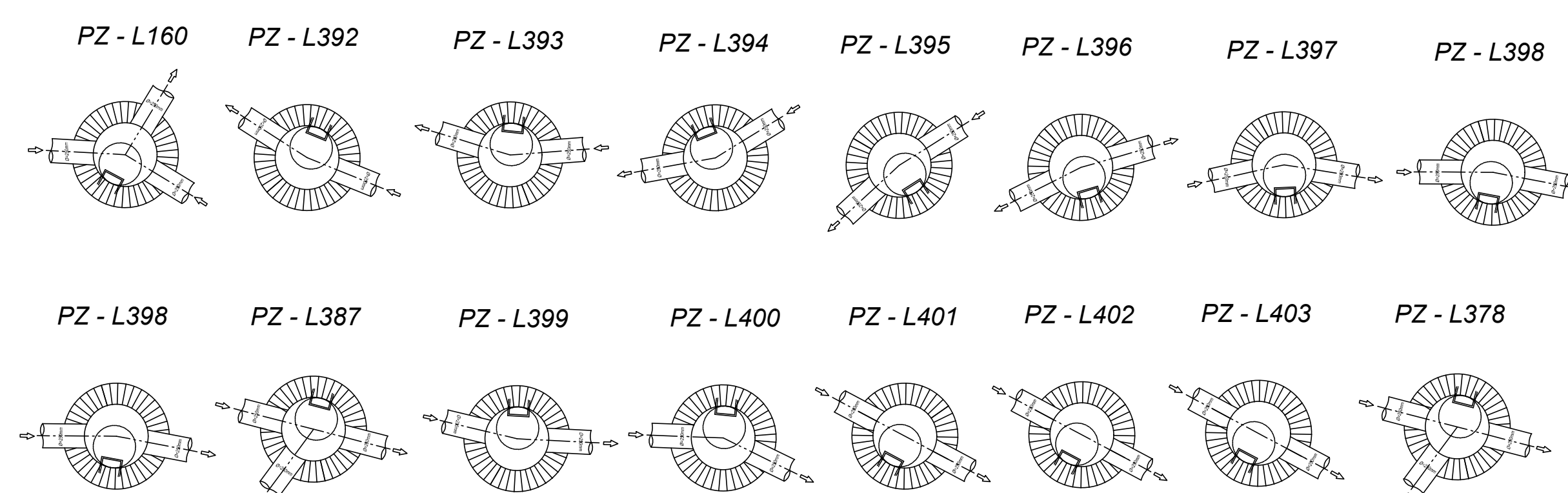
LÁMINA: LÁMINA - 29 TOTAL LÁMINAS: 40

# SANTA LUCIA CENTRO

## LA AMISTAD

PERFIL LONGITUDINAL  
ESC. H.=1:1000  
ESC. V.=1:200

### DETALLES POZOS

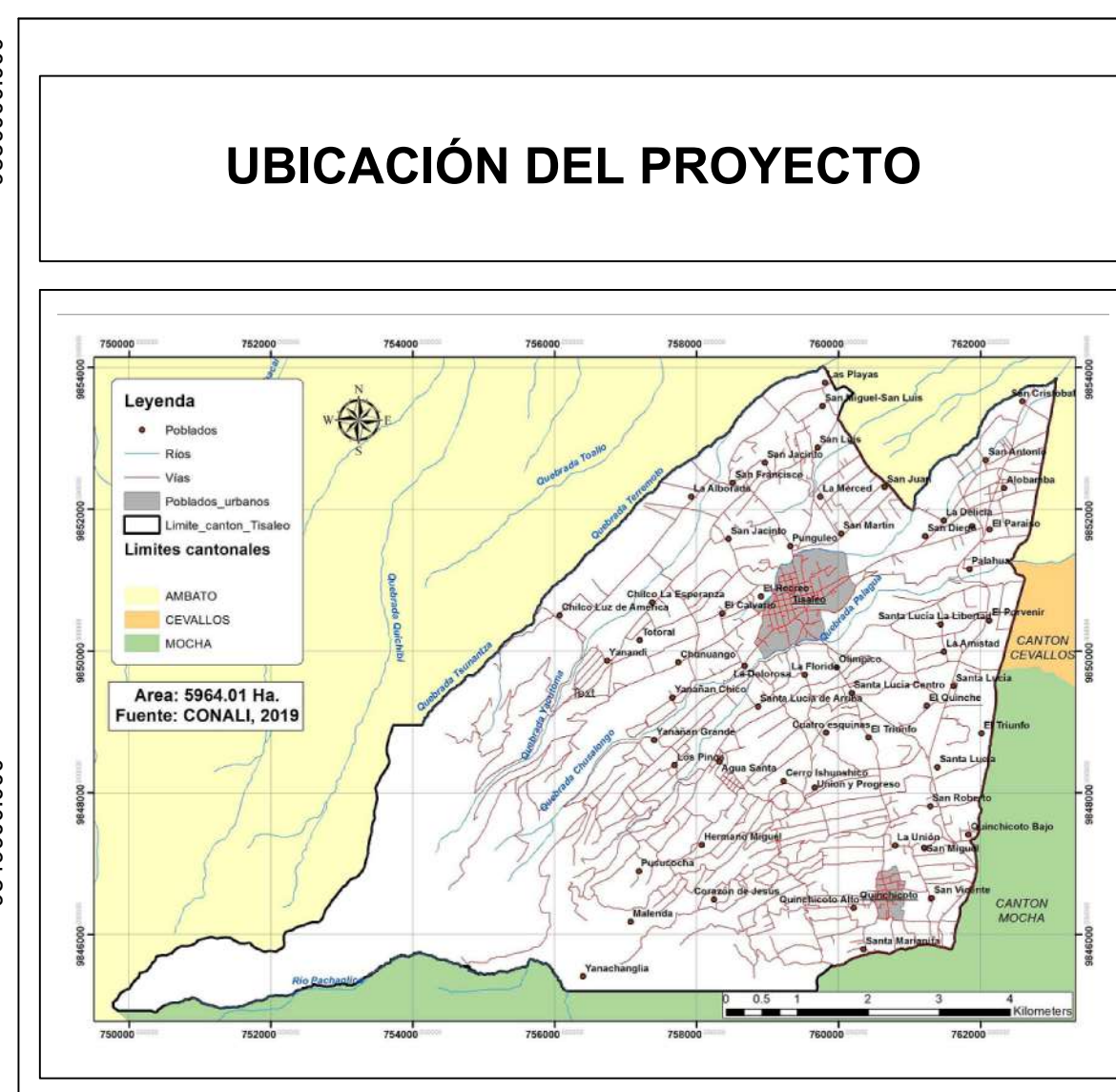
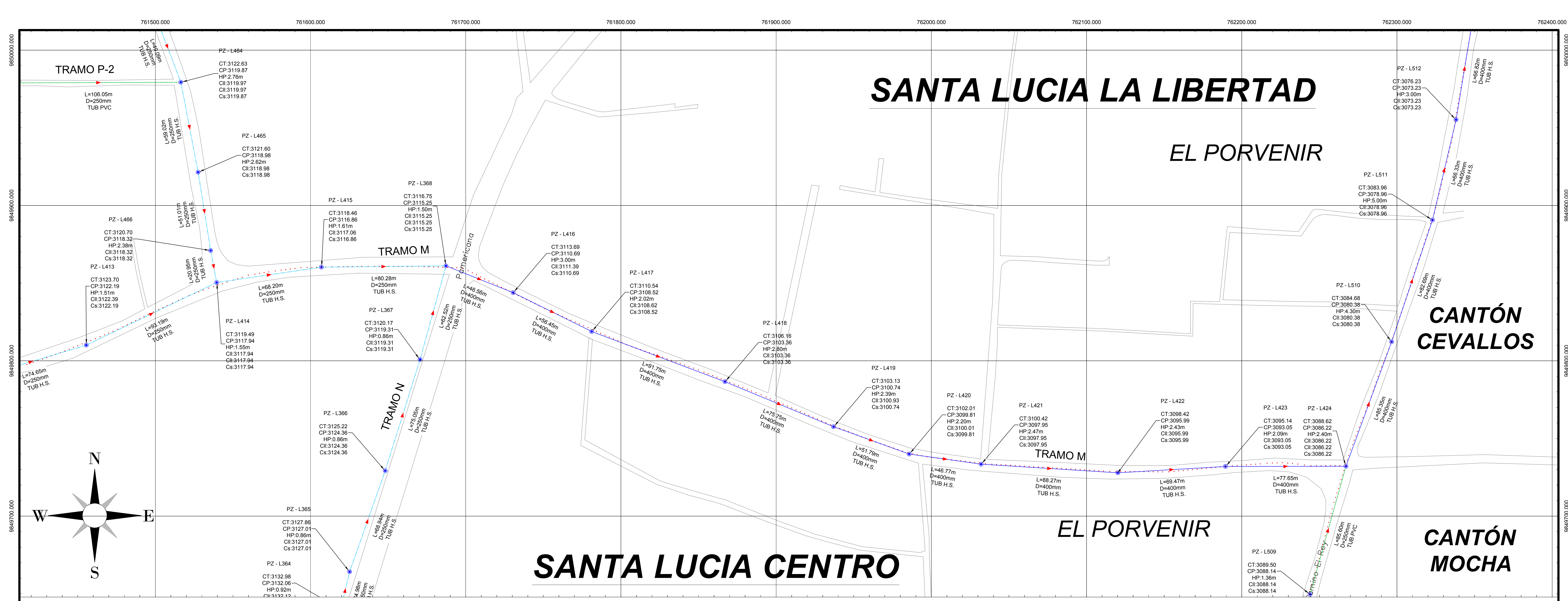


	0+00	0+20	0+40	0+60	0+80	0+100	0+120	0+140	0+160	0+180	0+200	0+220	0+240	0+260	0+280	0+300	0+320	0+340	0+360	0+380	0+400	0+420	0+440	0+460	0+480	0+500	0+520	0+540	0+560	0+580	0+600	0+620	0+640	0+660	0+680	0+700	0+720	0+740	0+760	0+780	0+800	0+820	0+840	0+860	0+880																																																																																																																																																																																																																																																																																											
COTA TERRENO	3204.81	3204.87	3204.96	3205.35	3205.83	3206.31	3206.79	3207.27	3207.75	3208.23	3208.71	3209.19	3209.67	3210.15	3210.63	3211.11	3211.59	3212.07	3212.55	3213.03	3213.51	3213.99	3214.47	3214.95	3215.43	3215.91	3216.39	3216.87	3217.35	3217.83	3218.31	3218.79	3219.27	3219.75	3220.23	3220.71	3221.19	3221.67	3222.15	3222.63	3223.11	3223.59	3224.07	3224.55	3225.03	3225.51	3225.99	3226.47	3226.95	3227.43	3227.91	3228.39	3228.87	3229.35	3229.83	3230.31	3230.79	3231.27	3231.75	3232.23	3232.71	3233.19	3233.67	3234.15	3234.63	3235.11	3235.59	3236.07	3236.55	3237.03	3237.51	3237.99	3238.47	3238.95	3239.43	3239.91	3240.39	3240.87	3241.35	3241.83	3242.31	3242.79	3243.27	3243.75	3244.23	3244.71	3245.19	3245.67	3246.15	3246.63	3247.11	3247.59	3248.07	3248.55	3249.03	3249.51	3250.00	3250.48	3250.96	3251.44	3251.92	3252.40	3252.88	3253.36	3253.84	3254.32	3254.80	3255.28	3255.76	3256.24	3256.72	3257.20	3257.68	3258.16	3258.64	3259.12	3259.60	3260.08	3260.56	3261.04	3261.52	3262.00	3262.48	3262.96	3263.44	3263.92	3264.40	3264.88	3265.36	3265.84	3266.32	3266.80	3267.28	3267.76	3268.24	3268.72	3269.20	3269.68	3270.16	3270.64	3271.12	3271.60	3272.08	3272.56	3273.04	3273.52	3274.00	3274.48	3274.96	3275.44	3275.92	3276.40	3276.88	3277.36	3277.84	3278.32	3278.80	3279.28	3279.76	3280.24	3280.72	3281.20	3281.68	3282.16	3282.64	3283.12	3283.60	3284.08	3284.56	3285.04	3285.52	3286.00	3286.48	3286.96	3287.44	3287.92	3288.40	3288.88	3289.36	3289.84	3290.32	3290.80	3291.28	3291.76	3292.24	3292.72	3293.20	3293.68	3294.16	3294.64	3295.12	3295.60	3296.08	3296.56	3297.04	3297.52	3298.00	3298.48	3298.96	3299.44	3299.92	3300.40	3300.88	3301.36	3301.84	3302.32	3302.80	3303.28	3303.76	3304.24	3304.72	3305.20	3305.68	3306.16	3306.64	3307.12	3307.60	3308.08	3308.56	3309.04	3309.52	3310.00	3310.48	3310.96	3311.44	3311.92	3312.40	3312.88	3313.36	3313.84	3314.32	3314.80	3315.28	3315.76	3316.24	3316.72	3317.20	3317.68	3318.16	3318.64	3319.12	3319.60	3320.08	3320.56	3321.04	3321.52	3322.00	3322.48	3322.96	3323.44	3323.92	3324.40	3324.88	3325.36	3325.84	3326.32	3326.80	3327.28	3327.76	3328.24	3328.72	3329.20	3329.68	3330.16	3330.64	3331.12	3331.60	3332.08	3332.56	3333.04	3333.52	3334.00	3334.48	3334.96	3335.44	3335.92	3336.40	3336.88	3337.36	3337.84	3338.32	3338.80	3339.28	3339.76	3340.24	3340.72	3341.20	3341.68	3342.16	3342.64	3343.12	3343.60	3344.08	3344.56	3345.04	3345.52	3346.00	3346.48	3346.96	3347.44	3347.92	3348.40	3348.88	3349.36	3349.84	3350.32	3350.80	3351.28	3351.76	3352.24	3352.72	3353.20	3353.68	3354.16	3354.64	3355.12	3355.60	3356.08	3356.56	3357.04	3357.52	3358.00	3358.48	3358.96	3359.44	3359.92	3360.40	3







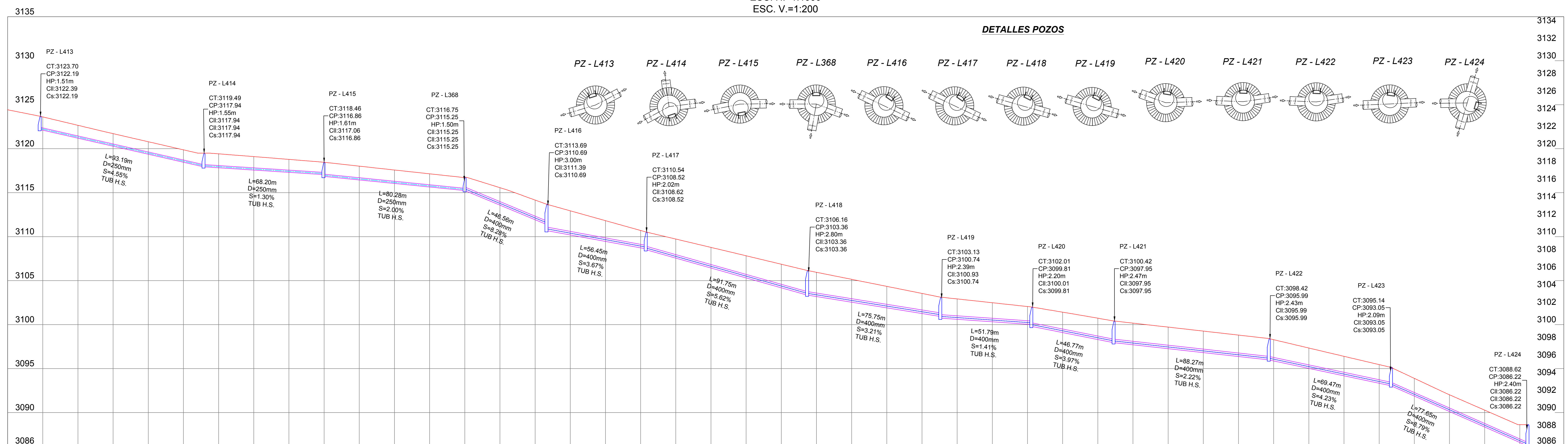


**DATUM:** WGS84 ZONA 17S  
**COORDENADAS UTM:** 759353.24 m E, 9850780.17 m S  
**ALTURA REFERENCIAL:** 3249 m

- SIMBOLOGÍA**
- TUBERÍA PVC D = 250mm
  - TUBERÍA PVC D = 300mm
  - TUBERÍA H.S. D = 250mm
  - TUBERÍA H.S. D = 400mm
  - POZO DE REVISIÓN
  - PERFIL DEL TERRENO
  - CALLES / VÍAS
  - LÍMITES TERRITORIALES

L	LONGITUD DEL TRAMO
D / Ø	DIÁMETRO DE TUBERÍA
S	GRADIENTE HIDRÁULICA
CT	COTA TERRENO
CP	COTA PROYECTO
CII	COTA DE LLEGADA
Cs	COTA DE SALIDA
HP	ALTURA DE POZO

**PERFIL LONGITUDINAL**  
 ESC. H.=1:1000  
 ESC. V.=1:200



**RED DE ALCANTARILLADO SANITARIO SANTA LUCÍA**

POZO	ESTE (m)	NORTE (m)	C. TERRENO (m)	C. LLEGADA(m)	C. SALIDA(m)
<b>TRAMO M</b>					
PZ-L396	760325.70	9849922.84	3215.71	3215.19	3214.40
PZ-L395	760325.24	9849922.84	3215.19	3209.85	3209.85
PZ-L394	760215.43	9849988.41	3207.13	3205.53	3205.53
PZ-L393	760121.21	9849988.41	3208.87	3205.17	3205.17
PZ-L392	760118.56	9849990.33	3204.98	3203.16	3203.16
PZ-L160	760087.33	9849932.12	3204.81	3201.97	3201.94
PZ-L396	760325.70	9849922.84	3215.71	3213.56	3212.40
PZ-L397	760327.86	9849933.94	3213.56	3211.60	3211.60
PZ-L398	760425.21	9849924.53	3209.84	3208.72	3208.52
PZ-L397	760445.97	9849912.71	3206.77	3205.43	3205.33
PZ-L398	760499.68	9849895.10	3200.96	3199.58	3199.38
PZ-L400	760574.43	9849889.10	3190.97	3189.60	3189.60
PZ-L401	760688.63	9849832.30	3181.68	3179.17	3179.17
PZ-L402	760714.08	9849793.66	3174.15	3172.83	3172.73
PZ-L403	760788.89	9849733.81	3167.15	3165.70	3165.70
PZ-L378	760838.48	9849702.35	3166.15	3164.75	3164.75
PZ-L404	760884.84	9849682.44	3163.98	3162.60	3162.40
PZ-L405	760947.04	9849678.67	3161.69	3159.66	3159.66
PZ-L406	761009.78	9849692.29	3151.94	3150.66	3150.46
PZ-L407	761105.19	9849705.39	3148.39	3146.94	3146.84
PZ-L408	761168.16	9849733.81	3144.45	3143.05	3143.05
PZ-L409	761180.86	9849744.08	3142.72	3141.27	3141.27
PZ-L410	761244.70	9849754.91	3138.21	3137.01	3136.61
PZ-L411	761329.22	9849786.32	3133.06	3131.74	3131.54
PZ-L412	761384.05	9849788.55	3128.58	3126.28	3126.28
PZ-L413	761445.53	9849810.09	3123.70	3122.39	3122.19
PZ-L414	761539.55	9849850.39	3119.49	3117.94	3117.94
PZ-L415	761607.04	9849860.25	3118.47	3117.06	3116.86
PZ-L416	761691.74	9849891.08	3116.78	3115.25	3115.25
PZ-L416	761733.57	9849843.36	3113.69	3111.39	3110.69
PZ-L417	761781.18	9849818.85	3110.54	3108.62	3108.62
PZ-L418	761867.05	9849786.63	3106.16	3103.36	3103.36
PZ-L419	761937.04	9849757.50	3103.13	3100.93	3100.74
PZ-L420	761986.74	9849739.07	3102.01	3099.81	3099.81
PZ-L421	762032.08	9849733.45	3100.42	3097.95	3097.95
PZ-L422	762103.10	9849737.89	3098.42	3096.89	3096.89
PZ-L423	762189.51	9849731.95	3095.14	3093.05	3093.05
PZ-L424	762267.15	9849732.10	3098.63	3086.23	3086.23
<b>TRAMO M-2</b>					
PZ-L388	760084.59	9849727.57	3223.17	3221.12	3221.12
PZ-L389	760124.59	9849764.59	3220.95	3219.03	3219.03
PZ-L390	760159.82	9849808.81	3217.20	3215.15	3215.15
PZ-L391	760190.15	9849857.56	3207.76	3206.49	3206.49
PZ-L393	760191.21	9849895.24	3206.87	3205.17	3205.17
<b>TRAMO M-3</b>					
PZ-L379	760099.95	9849611.95	3226.29	3224.30	3224.30
PZ-L380	760132.22	9849626.41	3224.30	3223.20	3223.20
PZ-L381	760160.49	9849688.80	3220.16	3218.56	3218.56
PZ-L382	760205.09	9849742.11	3218.06	3216.01	3216.01
PZ-L383	760266.85	9849756.26	3216.91	3215.71	3215.71
PZ-L384	760329.80	9849791.67	3215.62	3212.77	3212.77
PZ-L385	760374.41	9849826.61	3213.31	3210.74	3210.74
PZ-L386	760418.73	9849871.33	3208.27	3206.24	3206.24
PZ-L387	760466.97	9849912.11	3205.17	3203.43	3203.43
PZ-L324	760241.34	9849375.41	3229.28	3227.60	3227.60
PZ-L329	760317.84	9849387.61	3227.28	3225.96	3225.96
PZ-L331	760424.00	9849385.38	3219.81	3217.91	3217.91
PZ-L370	760576.76	9849386.46	3210.64	3209.09	3209.09
PZ-L371	760676.78	9849386.11	3205.46	3203.48	3203.38
PZ-L372	760844.40	9849372.43	3200.08	3198.08	3198.08
PZ-L373	760968.88	9849362.46	3197.47	3195.37	3195.37
PZ-L374	760733.24	9849305.03	3192.44	3190.19	3190.19
PZ-L375	760755.84	9849344.07	3189.25	3187.25	3187.25
PZ-L376	760769.58	9849371.31	3186.40	3184.30	3184.30
PZ-L377	760799.73	9849350.12	3189.91	3188.01	3188.01
PZ-L378	760838.48	9849302.35	3186.15	3184.75	3184.75

**G.A.D. MUNICIPAL DEL CANTÓN TISALEO**

"CATASTRO DE LOS SISTEMAS DE ALCANTARILLADO A TRAVÉS DE LA GEOINFORMACIÓN Y DIGITALIZACIÓN PARA MEJORAR LA CALIDAD DE INFORMACIÓN SANITARIA DE LA PARROQUIA URBANA TISALEO Y CASERIOS SAN LUIS, SAN FRANCISCO, SAN JUAN, SAN DIEGO, ALBAMA, SANTA LUCÍA LIBERTAD, SANTA LUCÍA-CENTRO, SANTA LUCÍA ARRIBA, EL CALVARIO DEL CANTÓN TISALEO, PROVINCIA DE TUNGURAHUA"

CONTIENE: RED DE ALCANTARILLADO SANITARIO SANTA LUCÍA - TRAMO M BARRIO EL PORVENIR

PROVINCIA: TUNGURAHUA CANTÓN: TISALEO SECTOR: SANTA LUCÍA LA LIBERTAD

FECHA: SEPTIEMBRE 2022 ESCALA: 1:1000

ELABORADO POR: REVISADO POR: APROBADO POR:

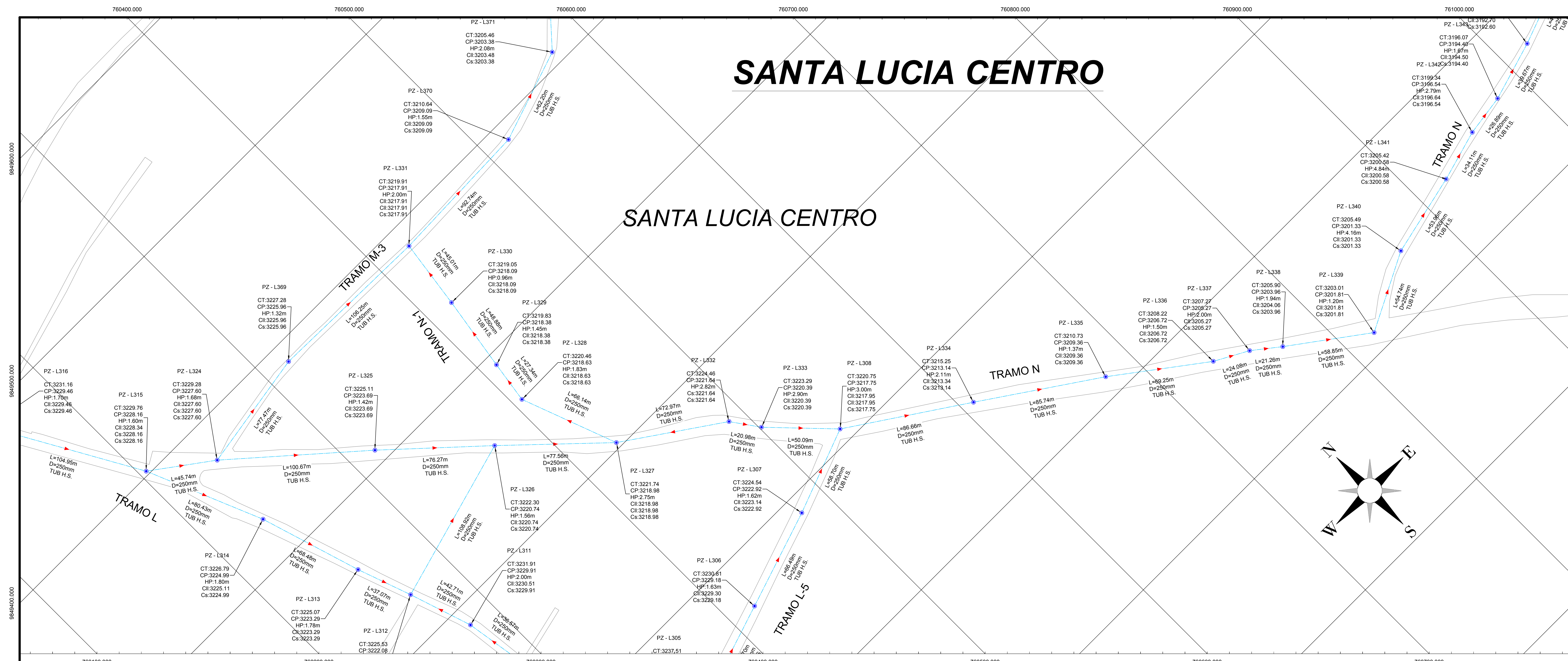
Egita Tamara Bonita Testa Ing. Galo Nuñez Tutor Ing. Galo Nuñez Tutor

TOTAL LÁMINAS: 31 LÁMINA: 31

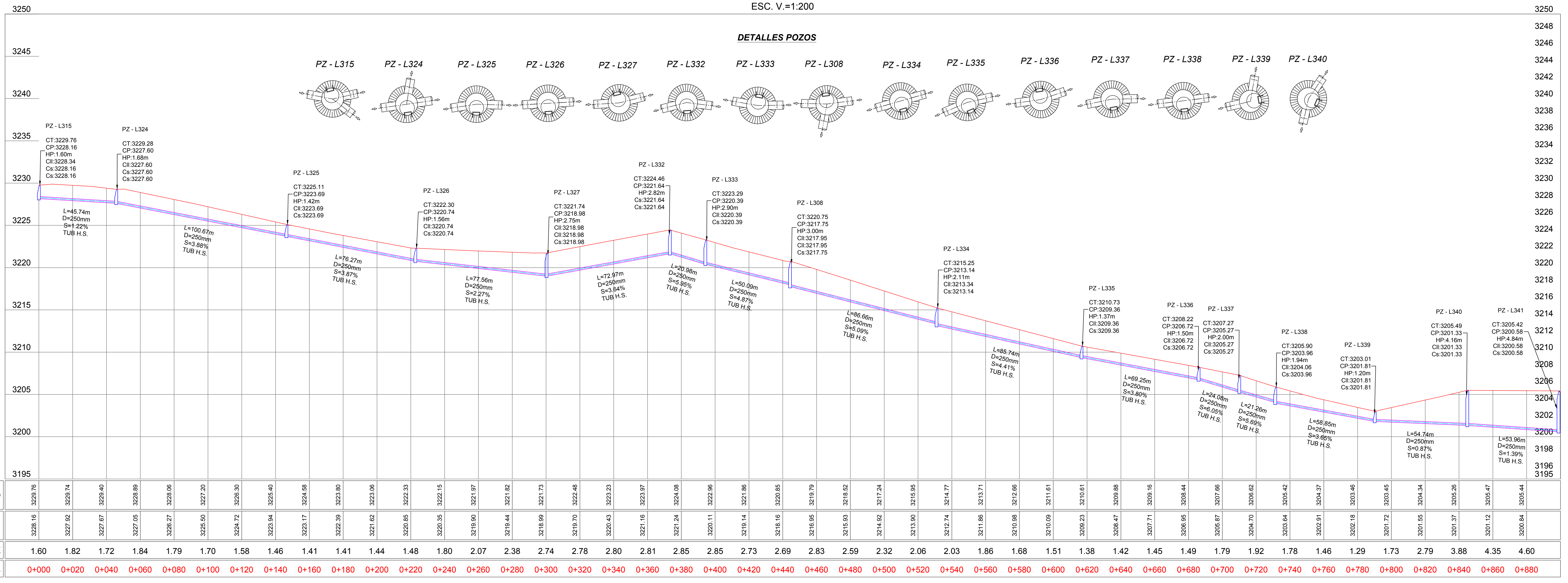


# SANTA LUCIA CENTRO

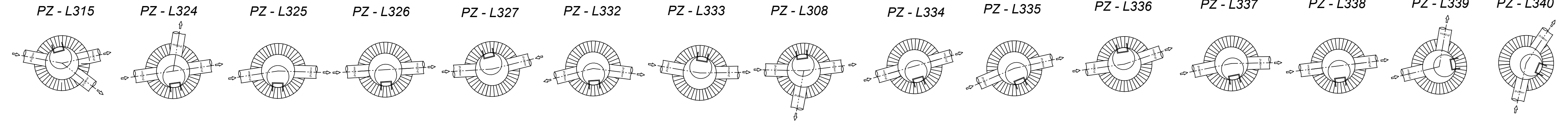
## SANTA LUCIA CENTRO



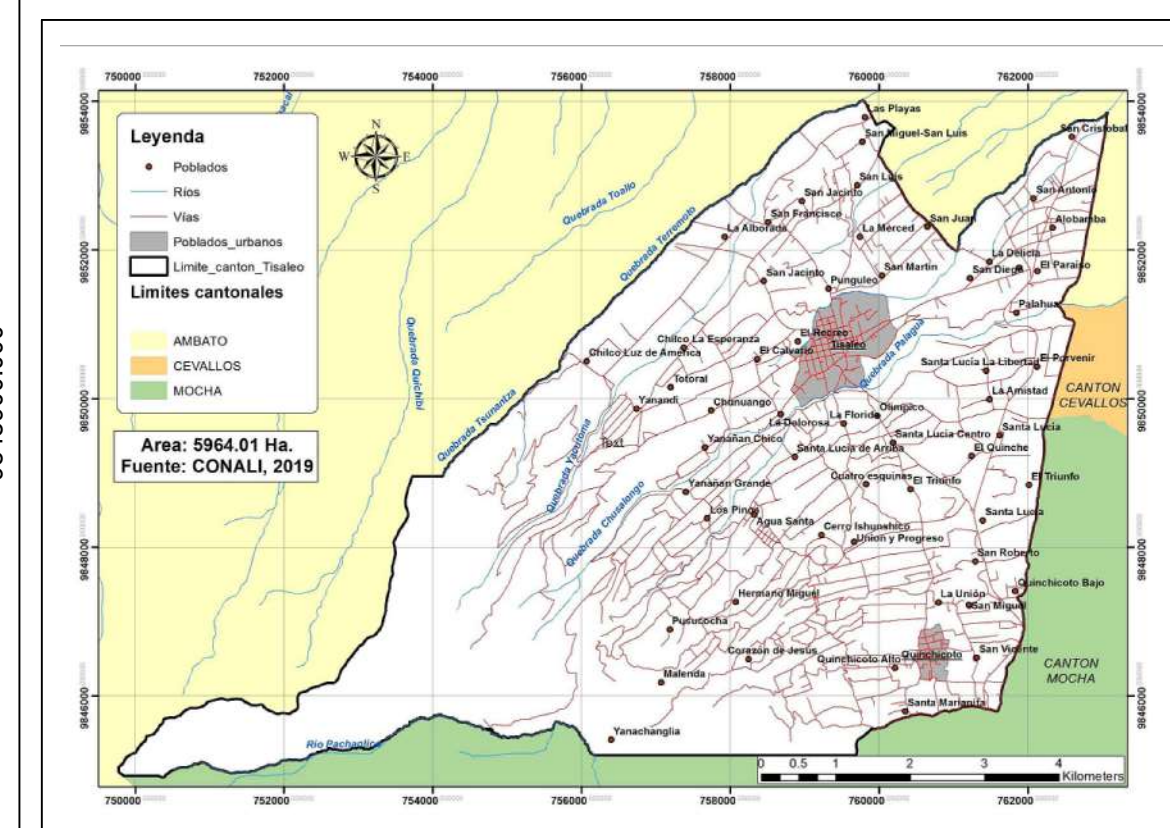
PERFIL LONGITUDINAL  
ESC. H.=1:1000  
ESC. V.=1:200



DETALLES POZOS



### UBICACIÓN DEL PROYECTO



### DATOS GEOGRÁFICOS

DATUM: WGS84 ZONA 17S  
 COORDENADAS UTM: 759353.24 m E  
 9850780.17 m S  
 ALTURA REFERENCIAL: 3249 m

### SIMBOLOGÍA

- TUBERÍA PVC D = 250mm
- TUBERÍA PVC D = 300mm
- TUBERÍA H.S. D = 250mm
- TUBERÍA H.S. D = 400mm
- POZO DE REVISIÓN
- PERFIL DEL TERRENO
- CALLES / VÍAS
- LÍMITES TERRITORIALES

- L LONGITUD DEL TRAMO
- D / Ø DIÁMETRO DE TUBERÍA
- S GRADIENTE HIDRÁULICA
- CT COTA TERRENO
- CP COTA PROYECTO
- CII COTA DE LLEGADA
- CS COTA DE SALIDA
- HP ALTURA DE POZO

RED DE ALCANTARILLADO SANITARIO SANTA LUCIA CENTRO						
POZO	ESTE (m)	NORTE (m)	C. TERRENO (m)	C. LLEGADA (m)	C. SALIDA (m)	
PZ-L315	760204.41	984902.40	3229.76	3228.34	3228.16	
PZ-L324	760241.34	984937.51	3229.28	3227.60	3227.60	
PZ-L325	760316.87	984938.85	3225.11	3223.89	3223.89	
PZ-L326	760372.83	984927.83	3223.30	3220.74	3220.74	
PZ-L327	760429.00	984920.54	3221.74	3218.99	3218.99	
PZ-L332	760489.19	984916.29	3224.46	-	3221.64	
PZ-L327	760429.00	984920.54	3221.74	3218.99	3218.99	
PZ-L332	760489.19	984916.29	3224.46	3221.64	3221.64	
PZ-L333	760501.24	984915.12	3223.29	3220.39	3220.39	
PZ-L308	760535.88	984910.84	3220.75	3217.95	3217.95	
PZ-L334	760608.00	984960.88	3215.25	3213.34	3213.14	
PZ-L335	760678.98	984912.80	3210.73	3208.36	3208.36	
PZ-L336	760734.39	984897.12	3208.22	3206.72	3206.72	
PZ-L337	760735.54	984899.74	3207.27	3205.27	3205.27	
PZ-L338	760772.27	984894.62	3205.90	3204.08	3203.96	
PZ-L339	760819.74	984891.83	3203.01	3201.81	3201.81	
PZ-L340	760888.58	984899.55	3205.49	3203.33	3203.33	
PZ-L341	760921.21	984894.45	3205.42	3200.58	3200.58	
PZ-L342	760954.04	984897.72	3199.34	3196.64	3196.54	
PZ-L343	760980.06	984896.51	3196.07	3194.50	3194.40	
PZ-L344	761015.86	984907.89	3193.82	3192.70	3192.60	
PZ-L345	761062.83	984898.95	3193.30	3192.11	3192.11	
PZ-L346	761103.79	984906.82	3188.20	3186.80	3186.70	
PZ-L347	761109.16	984903.36	3186.98	3185.88	3185.76	
PZ-L348	761149.22	984904.16	3185.16	3183.66	3183.66	
PZ-L349	761206.27	984915.77	3181.49	3180.12	3180.12	
PZ-L350	761257.81	984919.27	3179.76	3178.13	3178.03	
PZ-L351	761291.00	984927.46	3178.18	3177.02	3177.02	
PZ-L352	761338.88	984927.65	3174.63	3173.08	3172.98	
PZ-L353	761354.31	984927.01	3172.75	3171.29	3170.79	
PZ-L354	761407.83	984929.22	3168.27	3166.74	3166.74	
PZ-L355	761431.32	984928.58	3164.92	3162.71	3162.71	
PZ-L356	761485.22	984927.42	3163.10	3161.19	3160.89	
PZ-L357	761505.18	984928.22	3157.29	3155.87	3155.67	
PZ-L358	761522.44	984928.62	3152.74	3151.99	3151.94	
PZ-L359	761544.54	984941.44	3147.11	3146.36	3146.26	
PZ-L360	761560.86	984942.78	3144.36	3143.51	3143.51	
PZ-L361	761571.84	984948.50	3141.84	3141.19	3141.19	
PZ-L362	761591.94	984951.32	3138.77	3137.77	3137.67	
PZ-L363	761604.52	984950.82	3136.83	3135.73	3135.63	
PZ-L364	761619.41	984951.91	3132.92	3132.12	3132.06	
PZ-L365	761625.20	984964.21	3127.78	3127.01	3127.01	
PZ-L366	761648.15	984979.22	3125.12	3124.36	3124.36	
PZ-L367	761670.58	984980.84	3119.98	3119.31	3119.31	
PZ-L368	761687.31	984981.08	3116.75	3115.25	3115.25	

**G.A.D. MUNICIPAL DEL CANTON TISALEO**  
 "CATASTRO DE LOS SISTEMAS DE ALCANTARILLADO A TRAVÉS DE LA GEOINFORMACIÓN Y DIGITALIZACIÓN PARA MEJORAR LA CALIDAD DE INFORMACIÓN SANITARIA DE LA PARROQUIA URBANA SAN FRANCISCO DE SAN FRANCISCO, SAN JUAN DE DIAGO, ALBARRA, SANTA LUCÍA LIBERTAD, SANTA LUCÍA-CENTRO, SANTA LUCÍA ARRIBA, EL CALVARIO DEL CANTÓN TISALEO, PROVINCIA DE TUNGURAHUA"

CONTIENE:  
 RED DE ALCANTARILLADO SANITARIO SANTA LUCIA - TRAMO N  
 REVISADO POR: Ing. Gato Nunez Tutor  
 APROBADO POR: Ing. Gato Nunez Tutor

ELABORADO POR: Egda Tamara Bonilla Testa

REVISADO POR: Ing. Gato Nunez Tutor

APROBADO POR: Ing. Gato Nunez Tutor

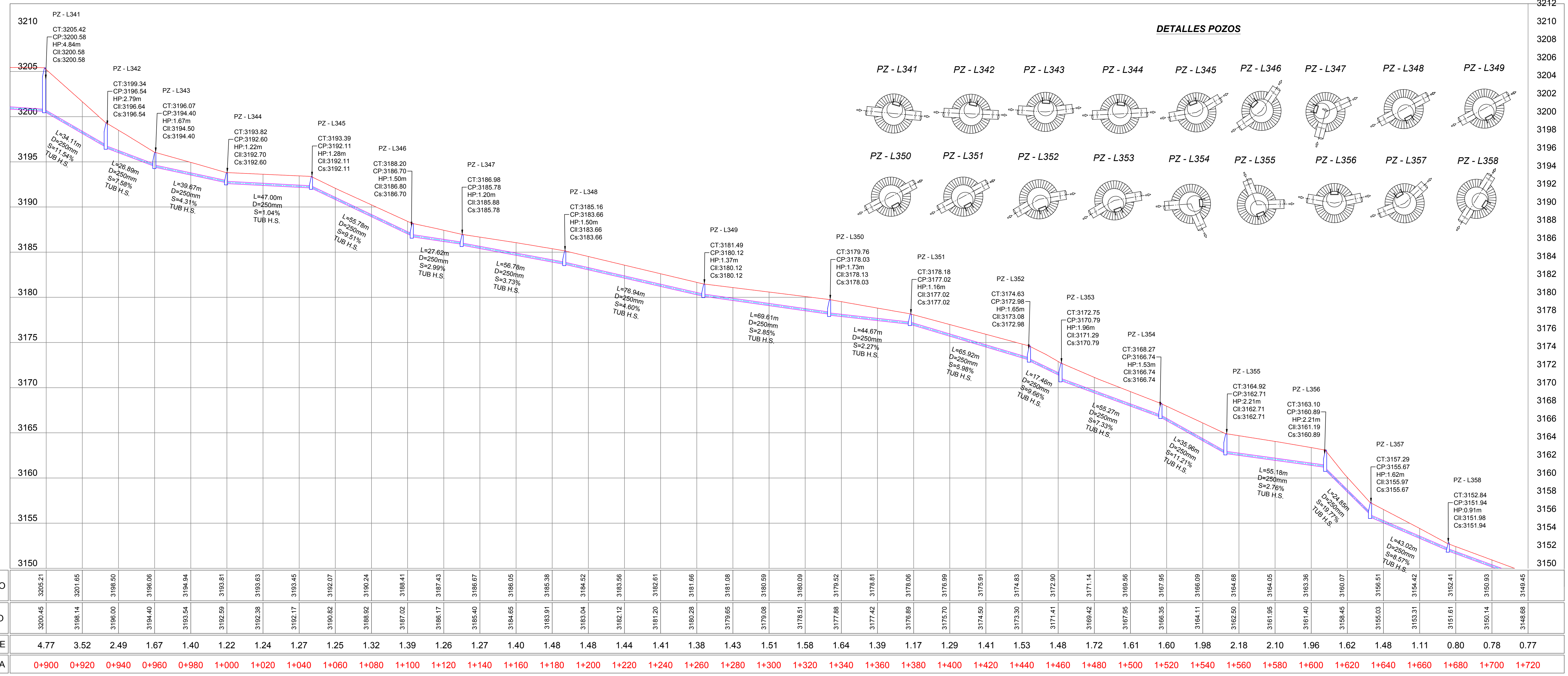
LÁMINA: 32  
 TOTAL LÁMINAS: 40



# SANTA LUCIA CENTRO



PERFIL LONGITUDINAL  
ESC. H.=1:1000  
ESC. V.=1:200



### UBICACIÓN DEL PROYECTO

### DATOS GEOGRÁFICOS

DATUM: WGS84 ZONA 17S  
 COORDENADAS UTM: 759353.24 m E, 9850780.17 m S  
 ALTURA REFERENCIAL: 3249 m

### SIMBOLOGÍA

- TUBERÍA PVC D = 250mm
- TUBERÍA PVC D = 300mm
- TUBERÍA H.S. D = 250mm
- TUBERÍA H.S. D = 400mm
- POZO DE REVISIÓN
- PERFIL DEL TERRENO
- CALLES / VÍAS
- LÍMITES TERRITORIALES

### LEYENDA

- L LONGITUD DEL TRAMO
- D / Ø DIÁMETRO DE TUBERÍA
- S GRADIENTE HIDRÁULICA
- CT COTA TERRENO
- CP COTA PROYECTO
- CII COTA DE LLEGADA
- Cs COTA DE SALIDA
- HP ALTURA DE POZO

### RED DE ALCANTARILLADO SANITARIO SANTA LUCIA - TRAMO N

POZO	ESTE (m)	NORTE (m)	C. TERRENO (m)	C. LLEGADA (m)	C. SALIDA (m)
PZ-L315	760204.41	9849402.40	3229.76	3228.34	3228.16
PZ-L324	760241.34	9849375.41	3229.28	3227.60	3227.60
PZ-L325	760216.87	9849398.85	3225.11	3223.89	3223.89
PZ-L326	760372.83	9849297.03	3222.30	3220.74	3220.74
PZ-L327	760429.00	9849203.54	3221.74	3218.99	3218.99
PZ-L332	760489.19	9849162.29	3224.46	-	3221.64
PZ-L327	760429.00	9849203.54	3221.74	3218.99	3218.99
PZ-L332	760489.19	9849162.29	3224.46	3221.64	3221.64
PZ-L333	760501.24	9849145.12	3223.29	3220.39	3220.39
PZ-L308	760535.88	9849108.94	3220.75	3217.95	3217.95
PZ-L334	760608.00	9849060.88	3215.25	3213.34	3213.14
PZ-L335	760678.98	9849012.80	3210.73	3208.36	3208.36
PZ-L336	760734.39	9848971.27	3208.22	3206.72	3206.72
PZ-L337	760735.54	9848959.74	3207.27	3205.27	3205.27
PZ-L338	760772.07	9848946.62	3205.90	3204.08	3203.96
PZ-L339	760819.74	9848911.83	3203.01	3201.81	3201.81
PZ-L340	760888.58	9848936.55	3205.49	3201.33	3201.33
PZ-L341	760921.21	9848948.45	3205.42	3200.58	3200.58
PZ-L342	760954.04	9848957.72	3199.34	3196.64	3196.54
PZ-L343	760980.66	9848961.51	3196.07	3194.50	3194.40
PZ-L344	761015.86	9848972.89	3193.82	3192.70	3192.60
PZ-L345	761062.83	9848988.95	3193.39	3192.11	3192.11
PZ-L346	761103.79	9849026.82	3188.20	3186.80	3186.70
PZ-L347	761109.16	9849053.82	3186.98	3185.88	3185.78
PZ-L348	761149.22	9849004.16	3185.16	3183.66	3183.66
PZ-L349	761206.27	9849145.77	3181.49	3180.12	3180.12
PZ-L350	761257.81	9849192.57	3179.76	3178.13	3178.03
PZ-L351	761291.00	9849202.46	3178.18	3177.02	3177.02
PZ-L352	761338.88	9849267.65	3174.63	3173.08	3172.98
PZ-L353	761354.31	9849276.01	3172.75	3171.29	3171.19
PZ-L354	761407.83	9849289.81	3168.27	3166.74	3166.74
PZ-L355	761431.32	9849282.58	3164.92	3162.71	3162.71
PZ-L356	761485.22	9849274.42	3163.10	3161.19	3160.89
PZ-L357	761505.18	9849289.22	3157.29	3155.87	3155.87
PZ-L358	761522.44	9849282.62	3152.74	3151.99	3151.94
PZ-L359	761544.54	9849401.44	3147.11	3146.36	3146.26
PZ-L360	761560.86	9849452.78	3144.36	3143.51	3143.51
PZ-L361	761571.94	9849488.50	3141.84	3141.19	3141.19
PZ-L362	761591.94	9849551.32	3138.77	3137.77	3137.67
PZ-L363	761604.52	9849590.82	3136.83	3135.73	3135.63
PZ-L364	761619.41	9849639.91	3132.92	3132.12	3132.06
PZ-L365	761625.20	9849664.21	3127.78	3127.01	3127.01
PZ-L366	761648.15	9849729.22	3125.12	3124.36	3124.36
PZ-L367	761670.58	9849803.84	3119.98	3119.31	3119.31
PZ-L368	761687.31	9849881.08	3116.75	3115.25	3115.25

### G.A.D. MUNICIPAL DEL CANTON TISALEO

"CATASTRO DE LOS SISTEMAS DE ALCANTARILLADO A TRAVÉS DE LA GEOREFERENCIACIÓN Y DIGITALIZACIÓN PARA MEJORAR LA CALIDAD DE INFORMACIÓN SANITARIA DE LA PARROQUIA URBANA TISALEO Y CASERIOS SAN LUIS, SAN FRANCISCO, SAN JUAN, SAN DIEGO, ALDAMBA, SANTA LUCÍA-LA LIBERTAD, SANTA LUCÍA-CENTRO, SANTA LUCÍA ARRIBA, EL CALVARIO DEL CANTÓN TISALEO, PROVINCIA DE TUNGURAHUA"

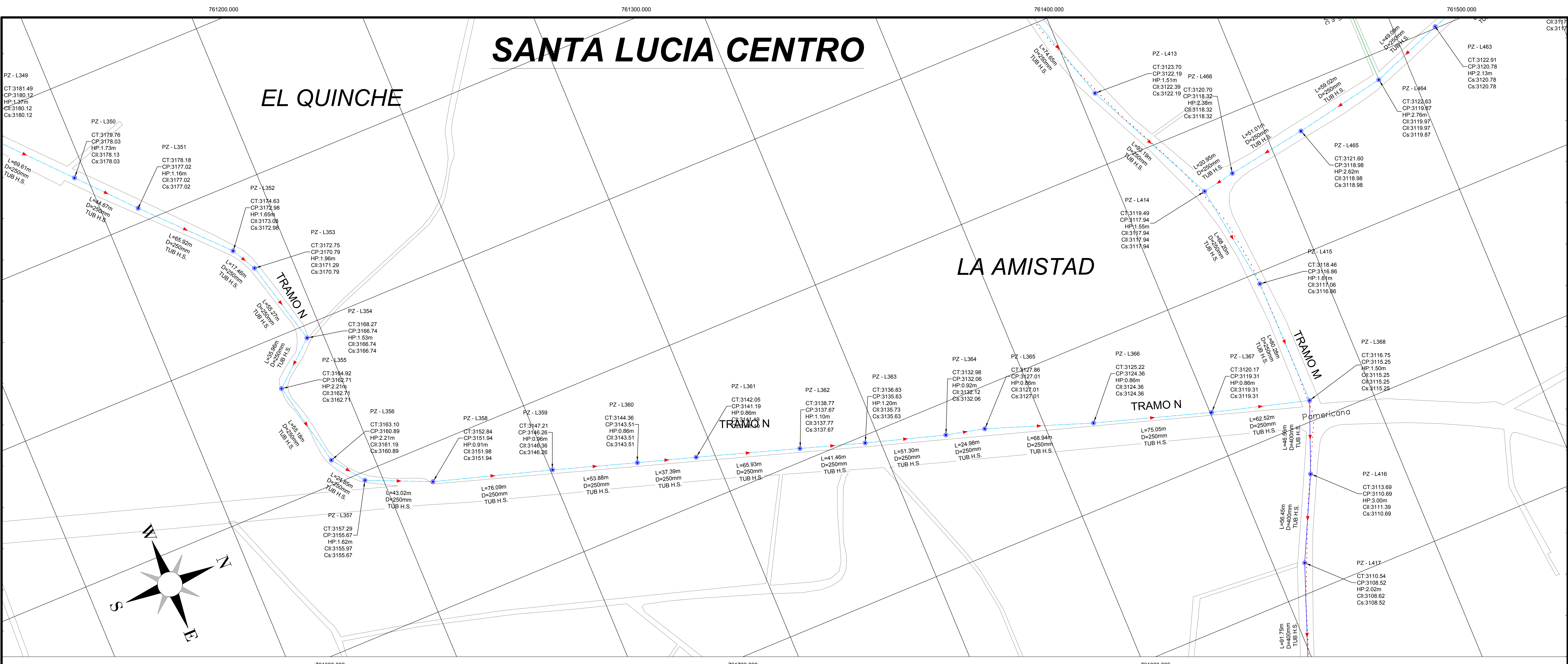
CONTIENE: RED DE ALCANTARILLADO SANITARIO SANTA LUCIA - TRAMO N BARRIO EL QUINCHE

PROVINCIA: TUNGURAHUA CANTÓN: TISALEO SECTOR: SANTA LUCIA CENTRO

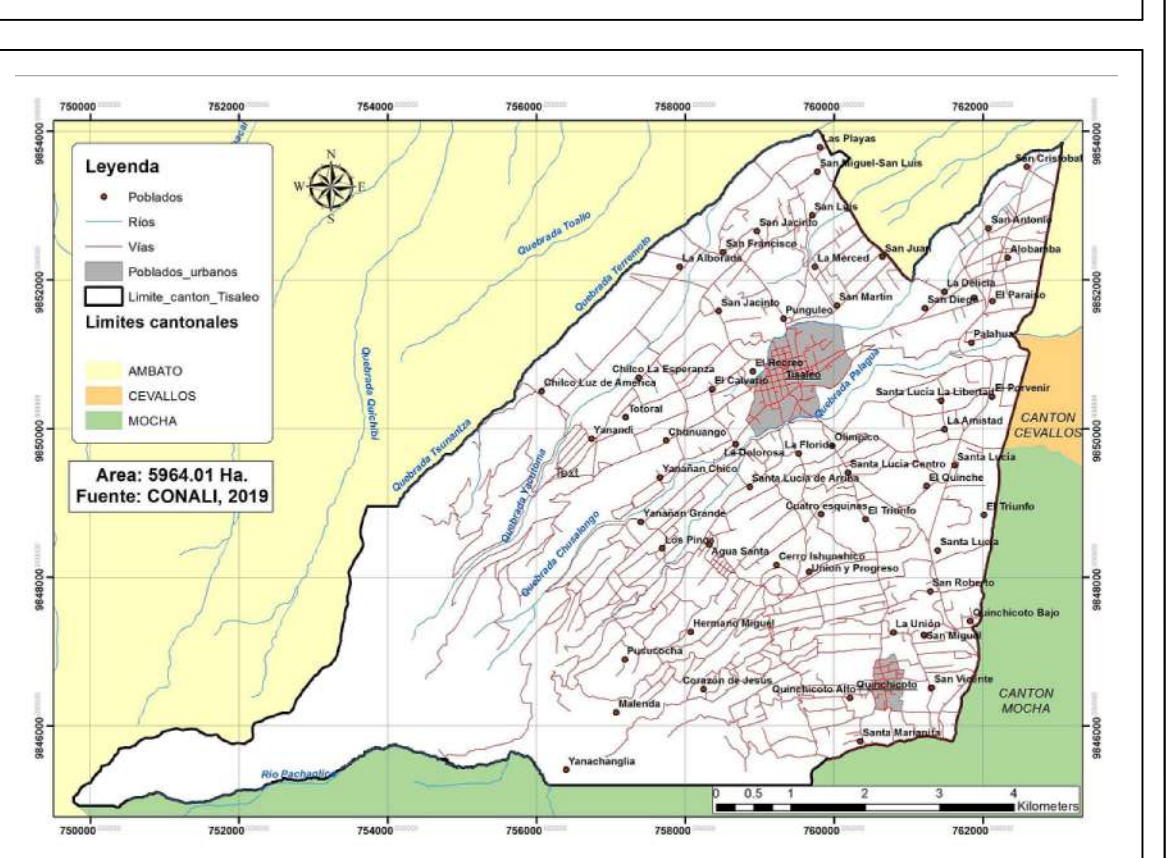
FECHA: SEPTIEMBRE 2022 ESCALA: 1:1000

ELABORADO POR: REVISADO POR: APROBADO POR: LÁMINA: 33 TOTAL LÁMINAS: 40





### UBICACIÓN DEL PROYECTO



### DATOS GEOGRÁFICOS

**DATUM:** WGS84 ZONA 17S

**COORDENADAS UTM:**  
759353.24 m E  
9850780.17 m S

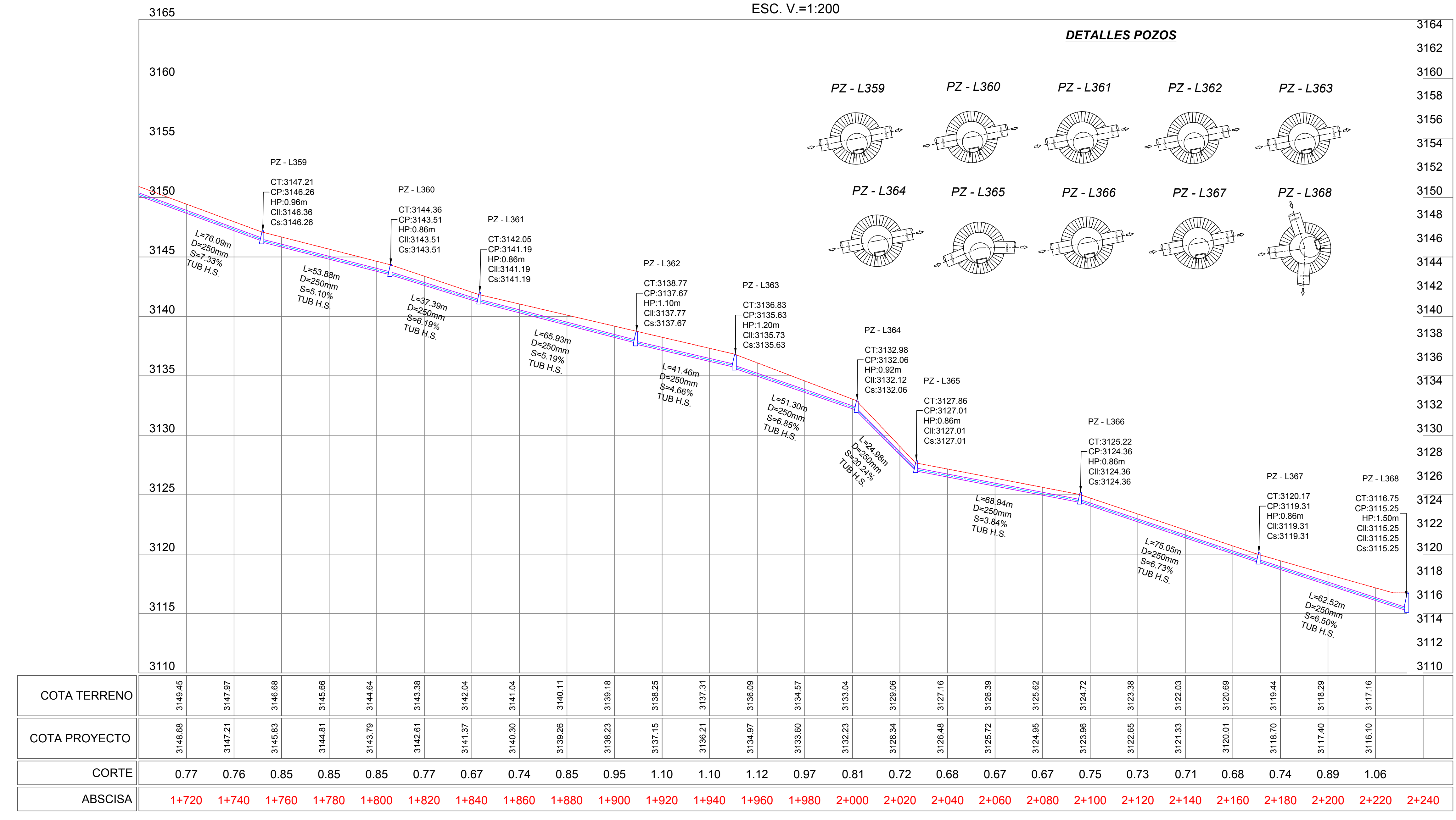
**ALTURA REFERENCIAL:**  
3249 m

### SIMBOLOGÍA

- TUBERÍA PVC D = 250mm
- TUBERÍA PVC D = 300mm
- TUBERÍA H.S. D = 250mm
- TUBERÍA H.S. D = 400mm
- POZO DE REVISIÓN
- PERFIL DEL TERRENO
- CALLES / VÍAS
- LÍMITES TERRITORIALES

- L LONGITUD DEL TRAMO
- D / Ø DIÁMETRO DE TUBERÍA
- S GRADIENTE HIDRÁULICA
- CT COTA TERRENO
- CP COTA PROYECTO
- CII COTA DE LLEGADA
- Cs COTA DE SALIDA
- HP ALTURA DE POZO

PERFIL LONGITUDINAL  
ESC. H.=1:1000  
ESC. V.=1:200



RED DE ALCANTARILLADO SANITARIO SANTA LUCIA CENTRO					
POZO	ESTE (m)	NORTE (m)	C. TERRENO (m)	C. LLEGADA (m)	C. SALIDA (m)
PZ-L315	760204.41	9849402.40	3229.76	3228.34	3228.16
PZ-L324	760241.34	9849375.41	3229.28	3227.60	3227.60
PZ-L325	760216.87	9849398.85	3225.11	3223.89	3223.89
PZ-L326	760372.83	9849297.03	3222.30	3220.74	3220.74
PZ-L327	760429.00	9849203.54	3221.74	3218.99	3218.99
PZ-L332	760489.19	9849162.29	3224.46	-	3221.64
PZ-L327	760429.00	9849203.54	3221.74	3218.99	3218.99
PZ-L332	760489.19	9849162.29	3224.46	3221.64	3221.64
PZ-L333	760501.24	9849145.12	3223.29	3220.39	3220.39
PZ-L308	760535.88	9849108.94	3220.75	3217.95	3217.75
PZ-L334	760608.00	9849060.88	3215.25	3213.34	3213.14
PZ-L335	760678.98	984912.80	3210.73	3208.36	3208.36
PZ-L336	760734.39	9848971.27	3208.22	3206.72	3206.72
PZ-L337	760735.54	9848959.74	3207.27	3205.27	3205.27
PZ-L338	760772.27	9848946.62	3205.90	3204.08	3203.98
PZ-L339	760819.74	9848911.83	3203.01	3201.81	3201.81
PZ-L340	760888.58	9848939.55	3205.49	3201.33	3201.33
PZ-L341	760921.21	9848948.45	3205.42	3200.58	3200.58
PZ-L342	760954.04	9848957.72	3199.34	3196.64	3196.54
PZ-L343	760980.06	9848961.51	3196.07	3194.50	3194.40
PZ-L344	761015.86	9848972.89	3193.82	3192.70	3192.60
PZ-L345	761062.83	9848988.95	3193.39	3192.11	3192.11
PZ-L346	761103.79	9849026.82	3188.20	3186.80	3186.70
PZ-L347	761109.16	9849053.82	3186.98	3185.88	3185.78
PZ-L348	761149.22	9849004.16	3185.16	3183.66	3183.66
PZ-L349	761206.27	9849145.77	3181.49	3180.12	3180.12
PZ-L350	761257.81	9849192.57	3179.76	3178.13	3178.03
PZ-L351	761291.00	9849227.46	3178.18	3177.02	3177.02
PZ-L352	761338.88	9849267.65	3174.63	3173.08	3172.98
PZ-L353	761354.31	9849276.01	3172.75	3171.29	3170.79
PZ-L354	761407.83	9849289.81	3168.27	3166.74	3166.74
PZ-L355	761431.32	9849282.58	3164.92	3162.71	3162.71
PZ-L356	761485.22	9849274.42	3163.10	3161.19	3160.89
PZ-L357	761505.18	9849289.22	3157.29	3155.87	3155.87
PZ-L358	761522.44	9849282.62	3152.74	3151.99	3151.94
PZ-L359	761544.54	9849401.44	3147.11	3146.36	3146.26
PZ-L360	761560.86	9849452.78	3144.36	3143.51	3143.51
PZ-L361	761571.94	9849488.50	3141.84	3141.19	3141.19
PZ-L362	761591.94	9849551.32	3138.77	3137.77	3137.67
PZ-L363	761604.52	9849590.82	3136.83	3135.73	3135.63
PZ-L364	761619.41	9849639.91	3132.92	3132.12	3132.06
PZ-L365	761625.20	9849664.21	3127.78	3127.01	3127.01
PZ-L366	761648.15	9849729.22	3125.12	3124.36	3124.36
PZ-L367	761670.58	9849802.84	3119.98	3119.31	3119.31
PZ-L368	761687.31	9849881.08	3116.75	3115.25	3115.25

**G.A.D. MUNICIPAL DEL CANTON TISALEO**

"CATASTRO DE LOS SISTEMAS DE ALCANTARILLADO A TRAVÉS DE LA GEOREFERENCIACIÓN Y DIGITALIZACIÓN PARA MEJORAR LA CALIDAD DE INFORMACIÓN SANITARIA DE LA PARROQUIA URBANA TISALEO Y CASERIOS SAN LUIS, SAN FRANCISCO, SAN JUAN, SAN DIEGO, ALDABANA, SANTA LUCÍA-LIBERTAD, SANTA LUCÍA-CENTRO, SANTA LUCÍA ARRIBA, EL CALVARIO DEL CANTÓN TISALEO, PROVINCIA DE TUNGURAHUA"

CONTIENE: RED DE ALCANTARILLADO SANITARIO SANTA LUCIA - TRAMO N BARRIO LA AMISTAD

PROVINCIA: TUNGURAHUA CANTÓN: TISALEO SECTOR: SANTA LUCIA CENTRO

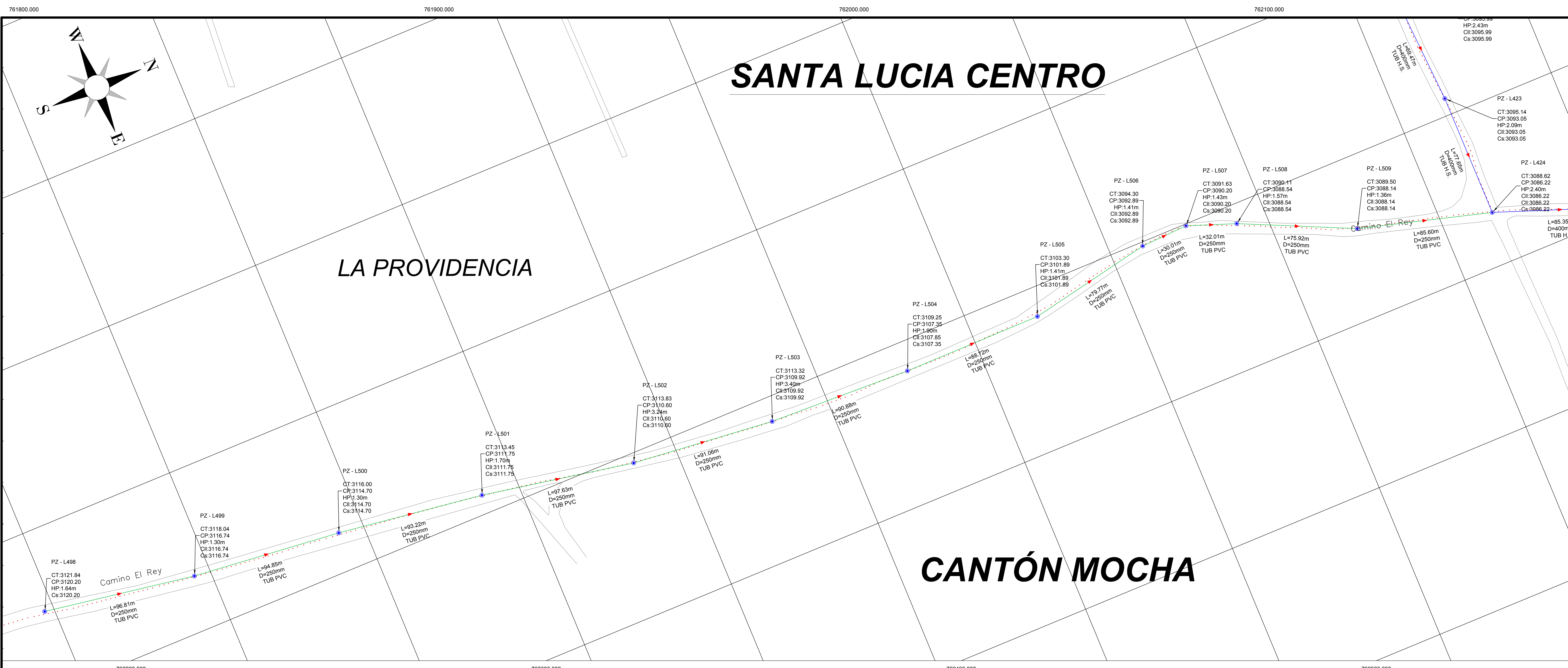
UNIVERSIDAD TÉCNICA DE AMBATO ESCUELA: ESCUELA DE INGENIERÍA CIVIL

FECHA: SEPTIEMBRE 2022

ELABORADO POR: Ing. Gato Núñez Tutor REVISADO POR: Ing. Gato Núñez Tutor APROBADO POR: Ing. Gato Núñez Tutor

LÁMINA: LÁMINA - 34 TOTAL LÁMINAS: 40





### UBICACIÓN DEL PROYECTO

### DATOS GEOGRÁFICOS

**DATUM:** WGS84 ZONA 17S

**COORDENADAS UTM:**  
759353.24 m E  
9850780.17 m S

**ALTURA REFERENCIAL:**  
3249 m

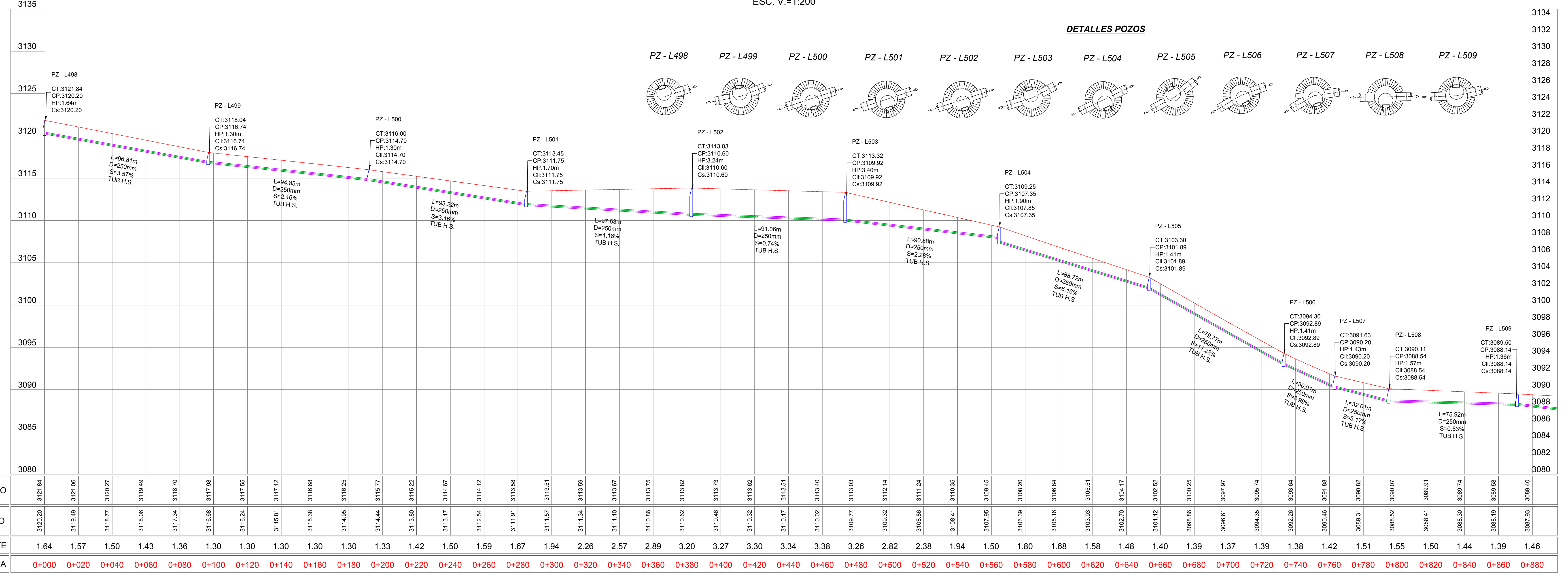
### SIMBOLOGÍA

- TUBERÍA PVC D = 250mm
- TUBERÍA PVC D = 300mm
- TUBERÍA H.S. D = 250mm
- TUBERÍA H.S. D = 400mm
- POZO DE REVISIÓN
- PERFIL DEL TERRENO
- CALLES / VÍAS
- LÍMITES TERRITORIALES

### LEYENDA

- L LONGITUD DEL TRAMO
- D / Ø DIÁMETRO DE TUBERÍA
- S GRADIENTE HIDRÁULICA
- CT COTA TERRENO
- CP COTA PROYECTO
- CII COTA DE LLEGADA
- Cs COTA DE SALIDA
- HP ALTURA DE POZO

PERFIL LONGITUDINAL  
ESC. H=1:1000  
ESC. V=1:200



### RED DE ALCANTARILLADO SANITARIO SANTA LUCÍA

#### TRAMO CAMINO EL REY

POZO	ESTE (m)	NORTE (m)	C. TERRENO (m)	C. LLEGADA (m)	C. SALIDA (m)
PZ-L498	762150.55	9848784.10	3121.84	3120.30	3120.20
PZ-L499	762165.99	9848889.66	3118.04	3116.74	3116.74
PZ-L500	762175.58	9848984.02	3116.00	3114.70	3114.70
PZ-L501	762188.26	9849076.38	3113.45	3111.75	3111.75
PZ-L502	762206.03	9849172.38	3113.84	3110.60	3110.60
PZ-L503	762215.25	9849262.97	3113.32	3109.92	3109.92
PZ-L504	762218.46	9849353.79	3109.25	3107.35	3107.35
PZ-L505	762218.10	9849442.52	3103.30	3101.89	3101.89
PZ-L506	762202.48	9849520.74	3094.30	3092.89	3092.89
PZ-L507	762201.17	9849550.72	3091.63	3090.20	3090.20
PZ-L508	762212.11	9849580.60	3090.11	3088.54	3088.54
PZ-L509	762244.02	9849649.89	3089.50	3088.14	3088.14
PZ-L424	762267.15	9849722.13	3088.63	3086.23	3086.23
PZ-L510	762296.55	9849812.23	3084.68	3080.38	3080.38
PZ-L511	762322.88	9849890.61	3083.96	3078.96	3078.96
PZ-L512	762338.10	9849955.17	3078.23	3073.23	3073.23
PZ-L513	762349.01	9850021.09	3068.52	3066.46	3066.46
PZ-L514	762359.48	9850060.63	3065.73	3063.68	3063.68
PZ-L515	762376.41	9850125.65	3061.19	3059.09	3059.09
PZ-L516	762402.58	9850211.77	3058.07	3055.97	3055.97
PZ-L517	762431.45	9850314.23	3056.48	3054.26	3054.26
PZ-L518	762449.05	9850385.77	3051.36	3049.06	3049.06
PZ-L519	762473.52	9850462.62	3044.98	3042.78	3042.78
PZ-L520	762500.00	9850573.49	3040.78	3039.03	3039.03
PZ-L521	762520.45	9850658.32	3035.44	3033.57	3033.57
PZ-L522	762541.57	9850765.63	3033.60	3031.67	3031.67
PZ-L497	762567.38	9850822.11	3031.91	3030.01	3030.01
PZ-L523	762591.83	9850898.53	3030.70	3028.84	3028.84
PZ-L524	762612.05	9850978.13	3027.04	3026.04	3026.04
PZ-L525	762633.84	9851018.11	3026.20	3025.34	3025.34
PZ-L526	762652.50	9851033.92	3023.91	3022.72	3022.72

### G.A.D. MUNICIPAL DEL CANTON TISALEO

"CATASTRO DE LOS SISTEMAS DE ALCANTARILLADO A TRAVÉS DE LA GEOREFERENCIACIÓN Y DIGITALIZACIÓN PARA MEJORAR LA CALIDAD DE INFORMACIÓN SANITARIA DE LA PARROQUIA URBANA TISALEO Y CASERIOS SAN LUIS, SAN FRANCISCO, SAN JUAN, SAN DIEGO, ALDAMBRA, SANTA LUCÍA LIBERTAD, SANTA LUCÍA-CENTRO, SANTA LUCÍA ARRIBA, EL CALVARIO DEL CANTÓN TISALEO, PROVINCIA DE TUNGURAHUA"

CONTIENE: RED DE ALCANTARILLADO SANITARIO SANTA LUCÍA - TRAMO CAMINO EL REY

PROVINCIA: TUNGURAHUA | CANTÓN: TISALEO | SECTOR: SANTA LUCÍA CENTRO

FECHA: 01 DE SEPTIEMBRE DE 2022 | ESCALA: 1:1000

ELABORADO POR: Eglis Tarrío Bonita Testa | REVISADO POR: Ing. Galo Núñez Tutor | APROBADO POR: Ing. Galo Núñez Tutor

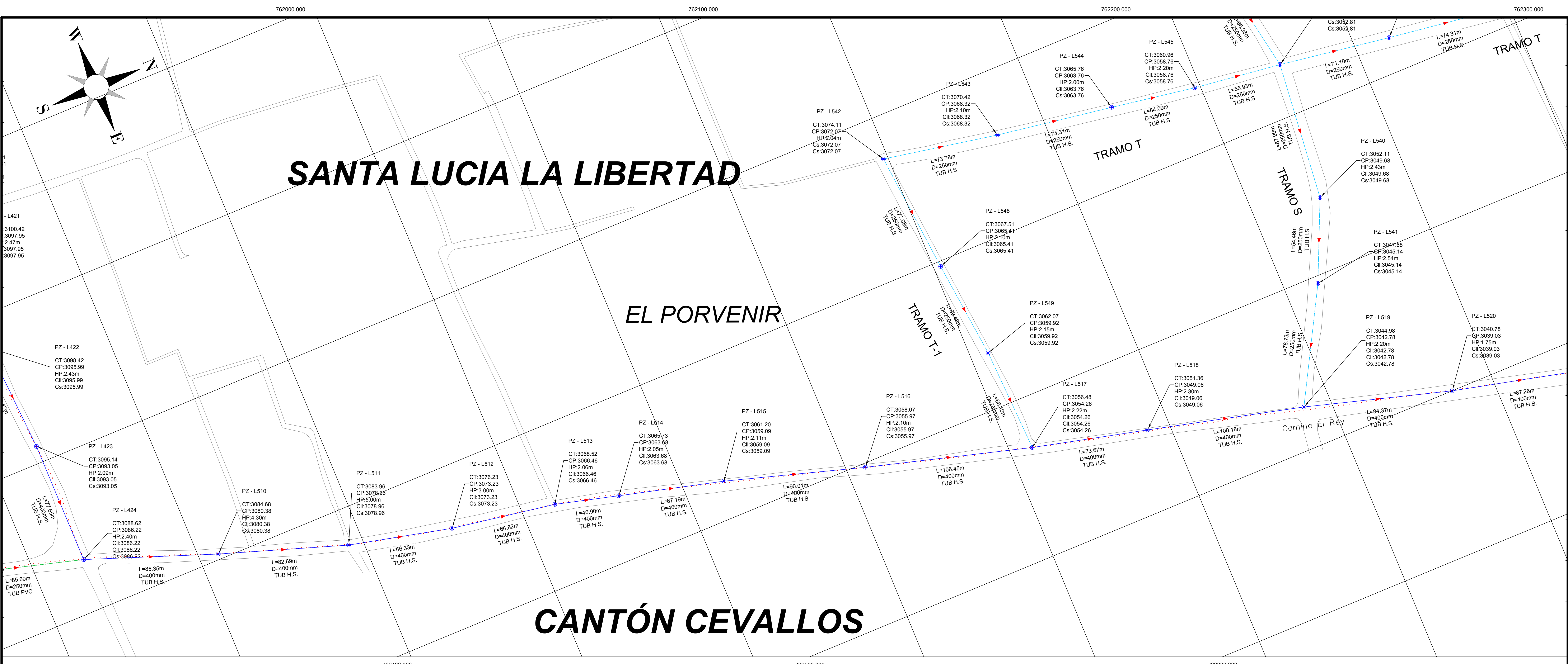
TOTAL LÁMINAS: 40 | LÁMINA: 35



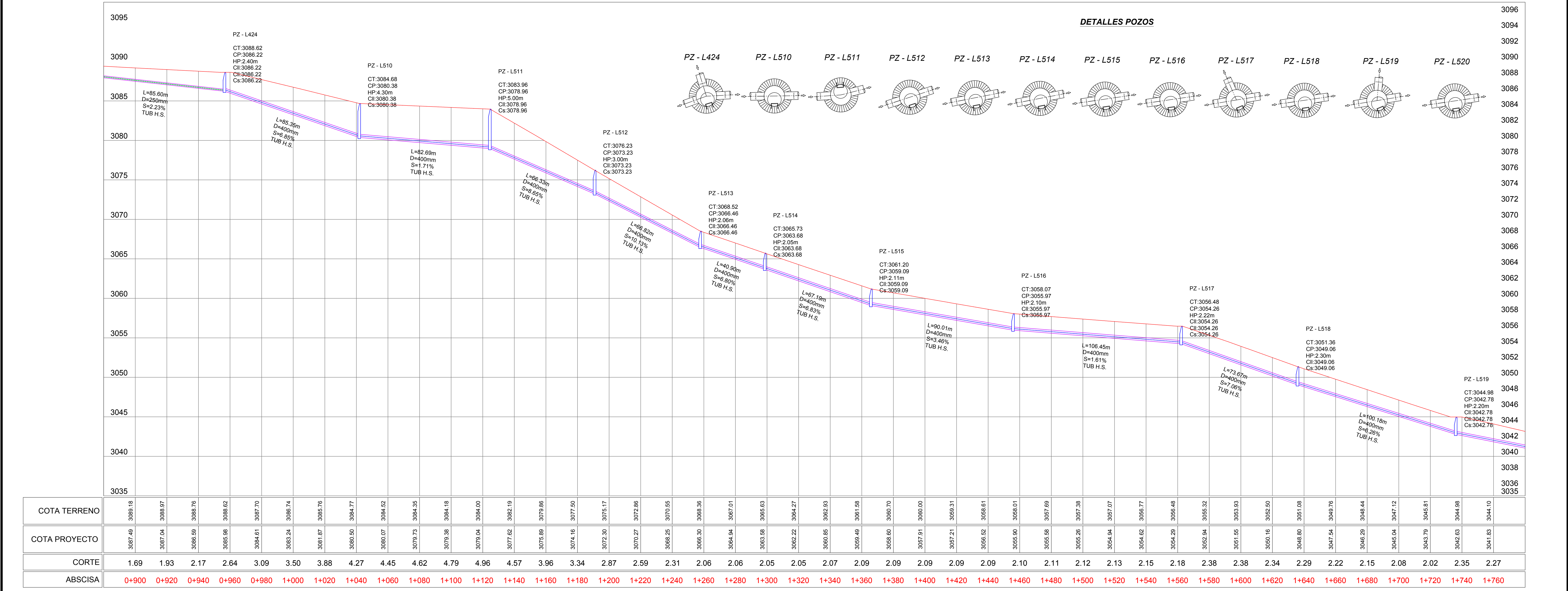
# SANTA LUCIA LA LIBERTAD

# EL PORVENIR

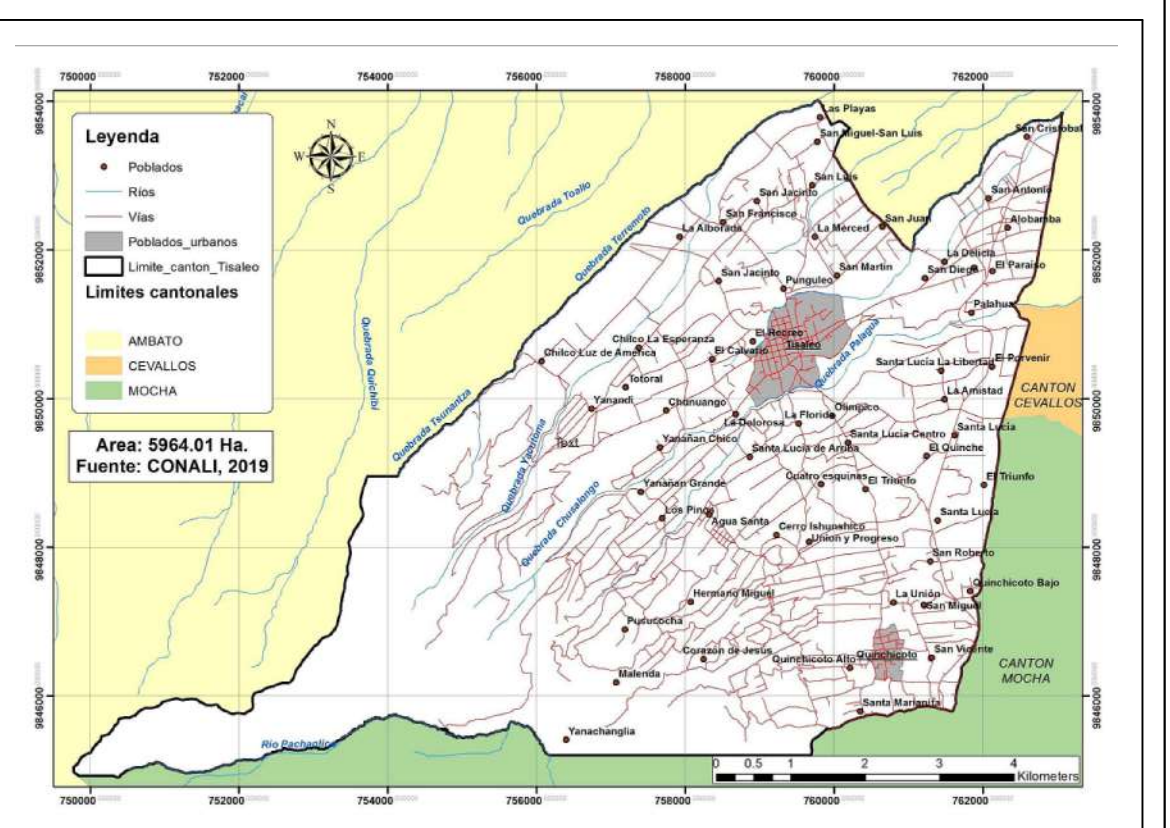
# CANTÓN CEVALLOS



PERFIL LONGITUDINAL  
ESC. H.=1:1000  
ESC. V.=1:200



## UBICACIÓN DEL PROYECTO



## DATOS GEOGRÁFICOS

**DATUM:** WGS84 ZONA 17S  
**COORDENADAS UTM:** 759353.24 m E  
9850780.17 m S  
**ALTURA REFERENCIAL:** 3249 m

## SIMBOLOGÍA

- TUBERÍA PVC D = 250mm
- TUBERÍA PVC D = 300mm
- TUBERÍA H.S. D = 250mm
- TUBERÍA H.S. D = 400mm
- POZO DE REVISIÓN
- PERFIL DEL TERRENO
- CALLES / VÍAS
- LÍMITES TERRITORIALES

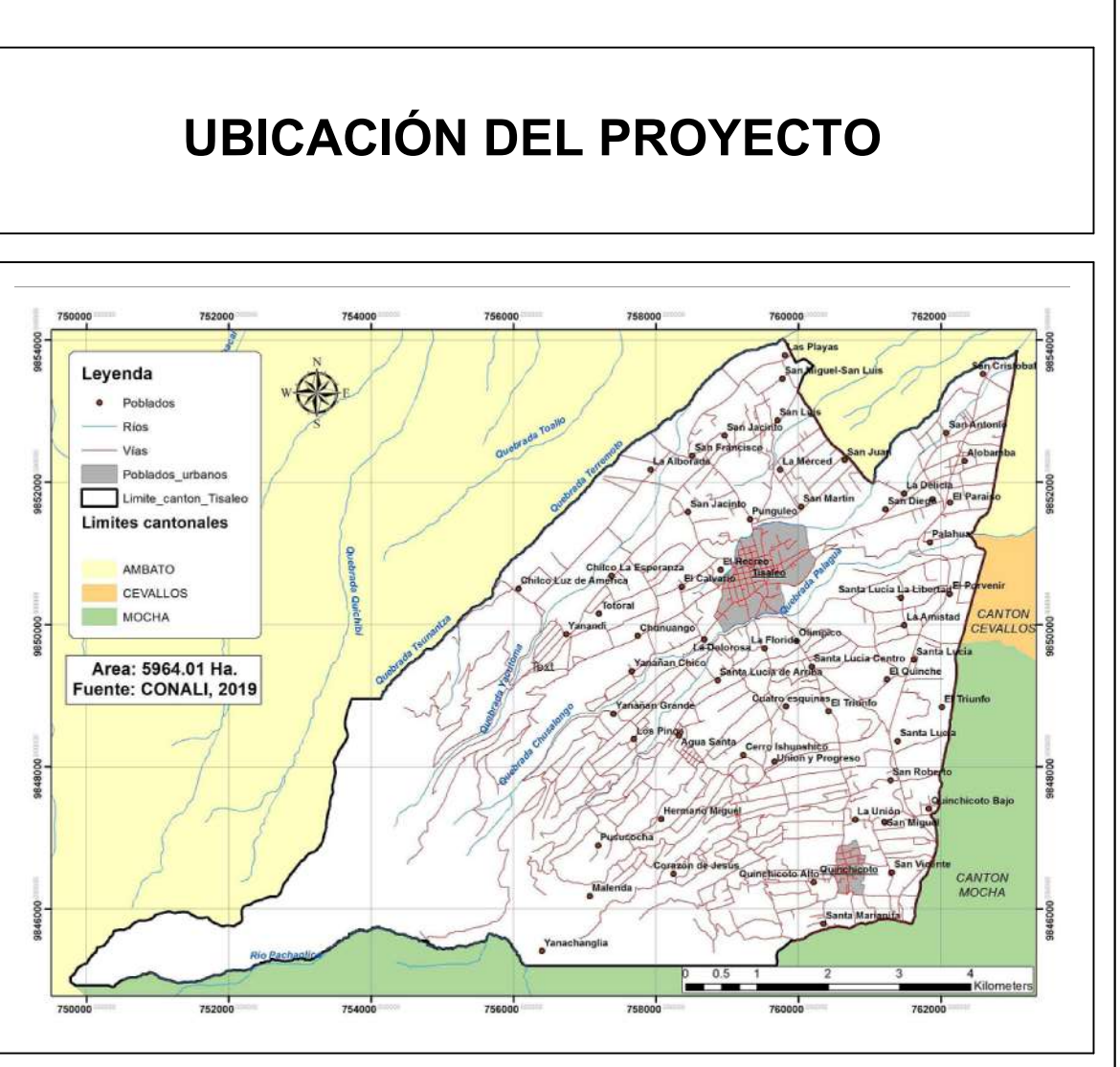
- L LONGITUD DEL TRAMO
- D / Ø DIÁMETRO DE TUBERÍA
- S GRADIENTE HIDRÁULICA
- CT COTA TERRENO
- CP COTA PROYECTO
- CII COTA DE LLEGADA
- Cs COTA DE SALIDA
- HP ALTURA DE POZO

RED DE ALCANTARILLADO SANITARIO SANTA LUCIA LA LIBERTAD					
POZO	ESTE (m)	NORTE (m)	C. TERRENO (m)	C. LLEGADA (m)	C. SALIDA (m)
PZ-L488	762150.55	9848794.10	3121.84	3120.30	3120.20
PZ-L489	762165.99	9848889.66	3118.04	3116.74	3116.74
PZ-L500	762175.68	9848984.02	3116.00	3114.70	3114.70
PZ-L501	762188.28	9849078.38	3115.45	3111.75	3111.75
PZ-L502	762206.03	9849172.38	3113.84	3110.60	3110.60
PZ-L503	762215.25	9849262.97	3113.32	3109.92	3109.92
PZ-L504	762218.46	9849353.79	3109.29	3107.85	3107.85
PZ-L505	762218.10	9849442.52	3103.30	3101.89	3101.89
PZ-L506	762202.48	9849520.74	3094.30	3092.89	3092.89
PZ-L507	762211.17	9849595.72	3091.63	3090.20	3090.20
PZ-L508	762212.11	9849580.60	3090.11	3088.54	3088.54
PZ-L509	762244.02	9849649.89	3089.50	3088.14	3088.14
PZ-L524	762287.15	9849732.13	3088.63	3086.23	3086.23
PZ-L510	762296.55	9849812.23	3084.68	3080.38	3080.38
PZ-L511	762322.88	9849890.81	3083.96	3078.96	3078.96
PZ-L512	762338.10	9849955.17	3078.23	3073.23	3073.23
PZ-L513	762349.01	9850021.09	3068.52	3066.46	3066.46
PZ-L514	762359.48	9850060.63	3065.73	3063.68	3063.68
PZ-L515	762376.41	9850125.65	3061.19	3059.09	3059.09
PZ-L516	762402.38	9850211.77	3058.07	3055.97	3055.97
PZ-L517	762431.45	9850314.23	3056.48	3054.26	3054.26
PZ-L518	762449.05	9850385.77	3051.36	3049.06	3049.06
PZ-L519	762473.52	9850462.29	3044.98	3042.78	3042.78
PZ-L520	762500.00	9850573.49	3040.78	3039.03	3039.03
PZ-L521	762520.45	9850658.32	3035.44	3033.57	3033.57
PZ-L522	762541.07	9850753.63	3033.60	3031.67	3031.67
PZ-L497	762567.38	9850822.11	3031.91	3030.01	3030.01
PZ-L523	762591.83	9850898.53	3030.70	3028.84	3028.84
PZ-L524	762612.05	9850971.13	3027.04	3026.04	3026.04
PZ-L525	762593.84	9851018.11	3028.20	3025.34	3025.34
PZ-L526	762452.50	9851033.92	3023.91	3022.72	3022.72

**G.A.D. MUNICIPAL DEL CANTON TISALEO**  
"CATASTRO DE LOS SISTEMAS DE ALCANTARILLADO A TRAVÉS DE LA GEORREFERENCIACIÓN Y DIGITALIZACIÓN PARA MEJORAR LA CALIDAD DE INFORMACIÓN SANITARIA DE LA PARROQUIA URBANA TISALEO Y CASERIOS SAN LUIS, SAN FRANCISCO, SAN JUAN, SAN DIEGO, ALDAMBA, SANTA LUCÍA-LA LIBERTAD, SANTA LUCÍA-CENTRO, SANTA LUCÍA ARRIBA, EL CALVARIO DEL CANTÓN TISALEO, PROVINCIA DE TUNGURAHUA"

CONTIENE: RED DE ALCANTARILLADO SANITARIO SANTA LUCIA - TRAMO CAMINO EL REY  
EL REY - BARRIO EL PORVENIR  
PROVINCIA: TUNGURAHUA CANTÓN: TISALEO SECTOR: SANTA LUCIA LA LIBERTAD  
FECHA: 01 DE SEPTIEMBRE DE 2022 ESCALA: 1:1000  
ELABORADO POR: REVISADO POR: APROBADO POR: LÁMINA: LÁMINA - 36  
Egita Tamara Bonita Testa Ing. Galo Nuñez Tutor Ing. Galo Nuñez Tutor TOTAL LÁMINAS: 40





**UBICACIÓN DEL PROYECTO**

**DATUM:** WGS84 ZONA 17S

**COORDENADAS UTM:**  
759353.24 m E  
9850780.17 m S

**ALTURA REFERENCIAL:**  
3249 m

**SIMBOLOGÍA**

TUBERÍA PVC D = 250mm  
TUBERÍA PVC D = 300mm  
TUBERÍA H.S. D = 250mm  
TUBERÍA H.S. D = 400mm

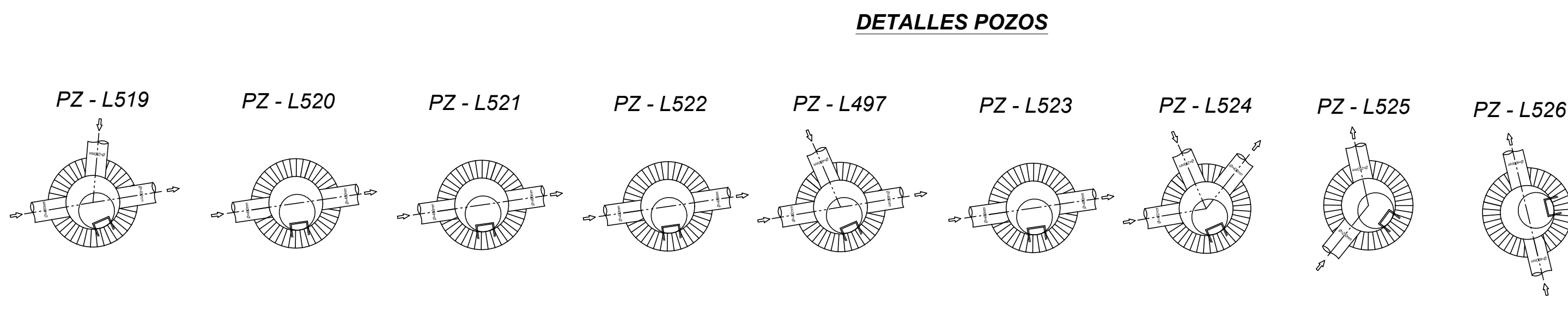
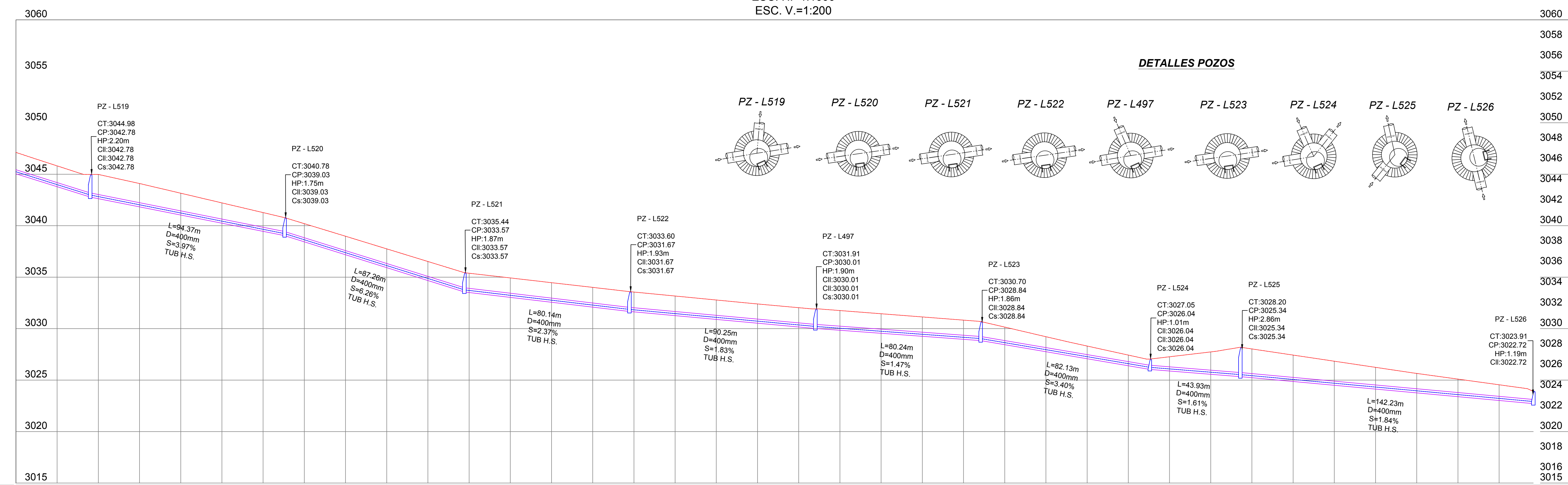
POZO DE REVISIÓN

PERFIL DEL TERRENO  
CALLES / VÍAS  
LÍMITES TERRITORIALES

L LONGITUD DEL TRAMO  
D / Ø DIÁMETRO DE TUBERÍA  
S GRADIENTE HIDRÁULICA  
CT COTA TERRENO  
CP COTA PROYECTO  
CII COTA DE LLEGADA  
Cs COTA DE SALIDA  
HP ALTURA DE POZO

# CANTÓN CEVALLOS

PERFIL LONGITUDINAL  
ESC. H.=1:1000  
ESC. V.=1:200



	3043.79	3045.81	3044.08	3044.10	3044.10	3043.16	3042.21	3041.27	3041.20	3038.98	3037.75	3036.52	3035.38	3034.02	3034.47	3033.04	3032.56	3032.09	3031.51	3031.04	3030.53	3030.15	3029.84	3029.22	3028.31	3027.43	3027.27	3027.74	3026.03	3025.23	3024.86	3024.50	3024.13	3023.24	3023.76	3023.10	3023.02	3024.55	
COTA TERRENO	3043.79	3045.81	3044.08	3044.10	3044.10	3043.16	3042.21	3041.27	3041.20	3038.98	3037.75	3036.52	3035.38	3034.02	3034.47	3033.04	3032.56	3032.09	3031.51	3031.04	3030.53	3030.15	3029.84	3029.22	3028.31	3027.43	3027.27	3027.74	3026.03	3025.23	3024.86	3024.50	3024.13	3023.24	3023.76	3023.10	3023.02	3024.55	
COTA PROYECTO	3043.79	3045.81	3044.08	3044.10	3044.10	3043.16	3042.21	3041.27	3041.20	3038.98	3037.75	3036.52	3035.38	3034.02	3034.47	3033.04	3032.56	3032.09	3031.51	3031.04	3030.53	3030.15	3029.84	3029.22	3028.31	3027.43	3027.27	3027.74	3026.03	3025.23	3024.86	3024.50	3024.13	3023.24	3023.76	3023.10	3023.02	3024.55	
CORTE	2.02	2.35	2.27	2.12	1.97	1.83	1.77	1.80	1.82	1.85	1.87	1.89	1.90	1.92	1.93	1.91	1.89	1.87	1.87	1.92	1.90	1.88	1.87	1.71	1.46	1.23	1.03	1.38	2.17	2.80	2.57	2.34	2.11	1.89	1.71	1.52			
ABSCISA	1+720	1+740	1+760	1+780	1+800	1+820	1+840	1+860	1+880	1+900	1+920	1+940	1+960	1+980	2+000	2+020	2+040	2+060	2+080	2+100	2+120	2+140	2+160	2+180	2+200	2+220	2+240	2+260	2+280	2+300	2+320	2+340	2+360	2+380	2+400	2+420	2+440		

RED DE ALCANTARILLADO SANITARIO SANTA LUCÍA LA LIBERTAD

POZO	ESTE (m)	NORTE (m)	C. TERRENO (m)	C. LLEGADA (m)	C. SALIDA (m)
PZ-L498	762150.55	9848784.10	3121.84	3120.30	3120.20
PZ-L499	762165.99	9848889.66	3118.04	3116.74	3116.74
PZ-L500	762175.68	9848984.02	3116.00	3114.70	3114.70
PZ-L501	762188.28	9849076.39	3115.45	3111.78	3111.78
PZ-L502	762206.03	9849172.38	3113.84	3110.60	3110.60
PZ-L503	762215.25	9849262.97	3113.32	3109.92	3109.92
PZ-L504	762218.46	9849353.79	3109.29	3107.85	3107.85
PZ-L505	762218.10	9849442.52	3103.30	3101.89	3101.89
PZ-L506	762202.48	9849520.74	3094.30	3092.89	3092.89
PZ-L507	762211.17	9849550.72	3091.63	3090.20	3090.20
PZ-L508	762212.11	9849580.60	3090.11	3088.54	3088.54
PZ-L509	762244.02	9849649.89	3089.50	3088.14	3088.14
PZ-L510	762217.15	9849732.13	3088.63	3086.23	3086.23
PZ-L511	762222.88	9849890.61	3083.96	3078.96	3078.96
PZ-L512	762238.10	9849955.17	3078.23	3073.23	3073.23
PZ-L513	762249.01	9850021.09	3068.52	3066.46	3066.46
PZ-L514	762259.48	9850060.63	3065.73	3063.68	3063.68
PZ-L515	762276.41	9850125.65	3061.19	3059.09	3059.09
PZ-L516	762402.38	9850211.77	3058.07	3055.97	3055.97
PZ-L517	762431.45	9850314.23	3056.48	3054.26	3054.26
PZ-L518	762449.05	9850385.77	3051.36	3049.06	3049.06
PZ-L519	762474.52	9850462.20	3044.98	3042.78	3042.78
PZ-L520	762500.00	9850573.49	3040.78	3039.03	3039.03
PZ-L521	762520.45	9850658.32	3035.44	3033.57	3033.57
PZ-L522	762541.57	9850740.60	3033.60	3031.67	3031.67
PZ-L523	762567.38	9850822.11	3031.91	3030.01	3030.01
PZ-L524	762591.83	9850898.53	3030.70	3028.84	3028.84
PZ-L525	762612.05	9850974.13	3027.04	3026.04	3026.04
PZ-L526	762693.84	9851018.11	3028.20	3025.34	3025.34
PZ-L526	762452.50	9851033.92	3023.91	3022.72	3022.72

**G.A.D. MUNICIPAL DEL CANTÓN TISALEO**

CATÁSTRO DE LOS SISTEMAS DE ALCANTARILLADO A TRAVÉS DE LA GEOREFERENCIACIÓN Y DIGITALIZACIÓN PARA MEJORAR LA CALIDAD DE INFORMACIÓN SANITARIA DE LA PARROQUIA URBANA TISALEO Y CASERIOS SAN LUIS, SAN FRANCISCO, SAN JUAN, SAN DIEGO, ALDAMBA, SANTA LUCÍA LA LIBERTAD, SANTA LUCÍA-CENTRO, SANTA LUCÍA ARRIBA, EL CALVARIO DEL CANTÓN TISALEO, PROVINCIA DE TUNGURAHUA

CONTIENE: RED DE ALCANTARILLADO SANITARIO SANTA LUCÍA - TRAMO CAMINO EL REY

PROVINCIA: TUNGURAHUA | CANTÓN: TISALEO | SECTOR: SANTA LUCÍA LA LIBERTAD

FECHA: SEPTIEMBRE 2022

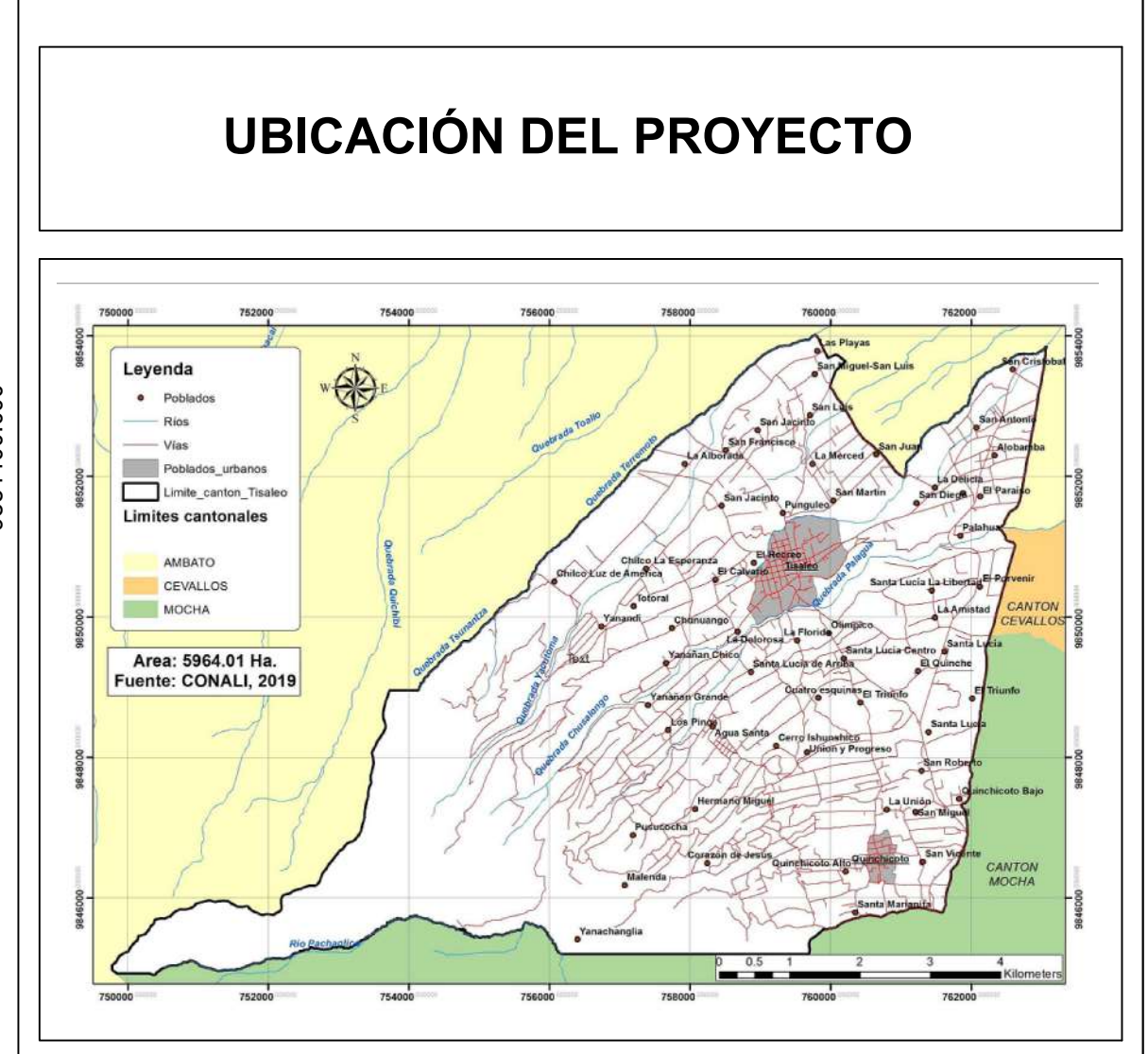
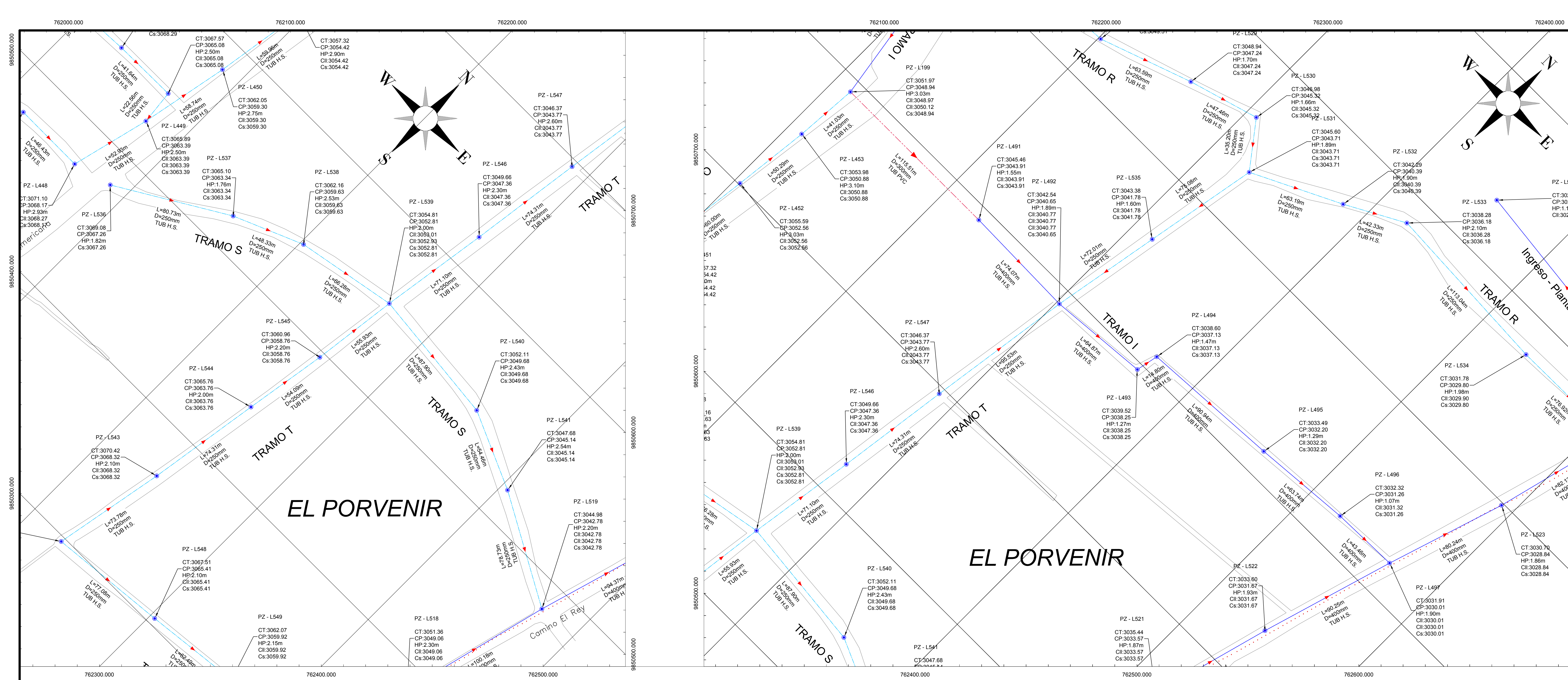
ELABORADO POR: Egda Tamara Bonita Testa | REVISADO POR: Ing. Gaby Núñez Tutor | APROBADO POR: Ing. Gaby Núñez Tutor

TOTAL LÁMINAS: 37 | LÁMINA: 37 | 40









**DATOS GEOGRÁFICOS**

DATUM: WGS84 ZONA 17S

COORDENADAS UTM: 759353.24 m E, 9850780.17 m S

ALTURA REFERENCIAL: 3249 m

**SIMBOLOGÍA**

TUBERÍA PVC D = 250mm (Green dashed line)

TUBERÍA PVC D = 300mm (Red dashed line)

TUBERÍA H.S. D = 250mm (Blue dashed line)

TUBERÍA H.S. D = 400mm (Purple dashed line)

POZO DE REVISIÓN (Blue circle with center dot)

PERFIL DEL TERRENO (Red dashed line)

CALLES / VÍAS (Black solid line)

LÍMITES TERRITORIALES (Dotted line)

**LEGENDA**

L LONGITUD DEL TRAMO

D / Ø DIÁMETRO DE TUBERÍA

S GRADIENTE HIDRÁULICA

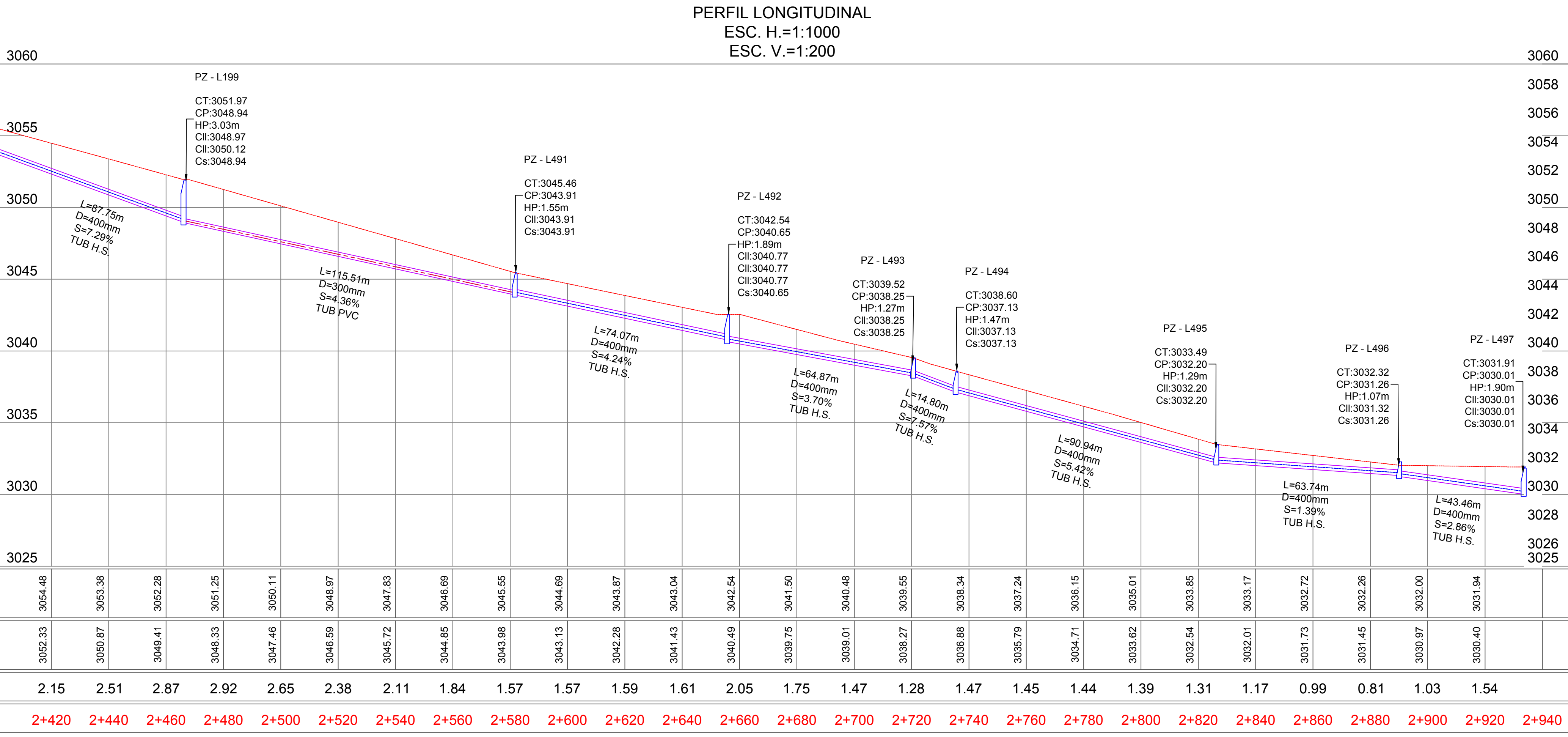
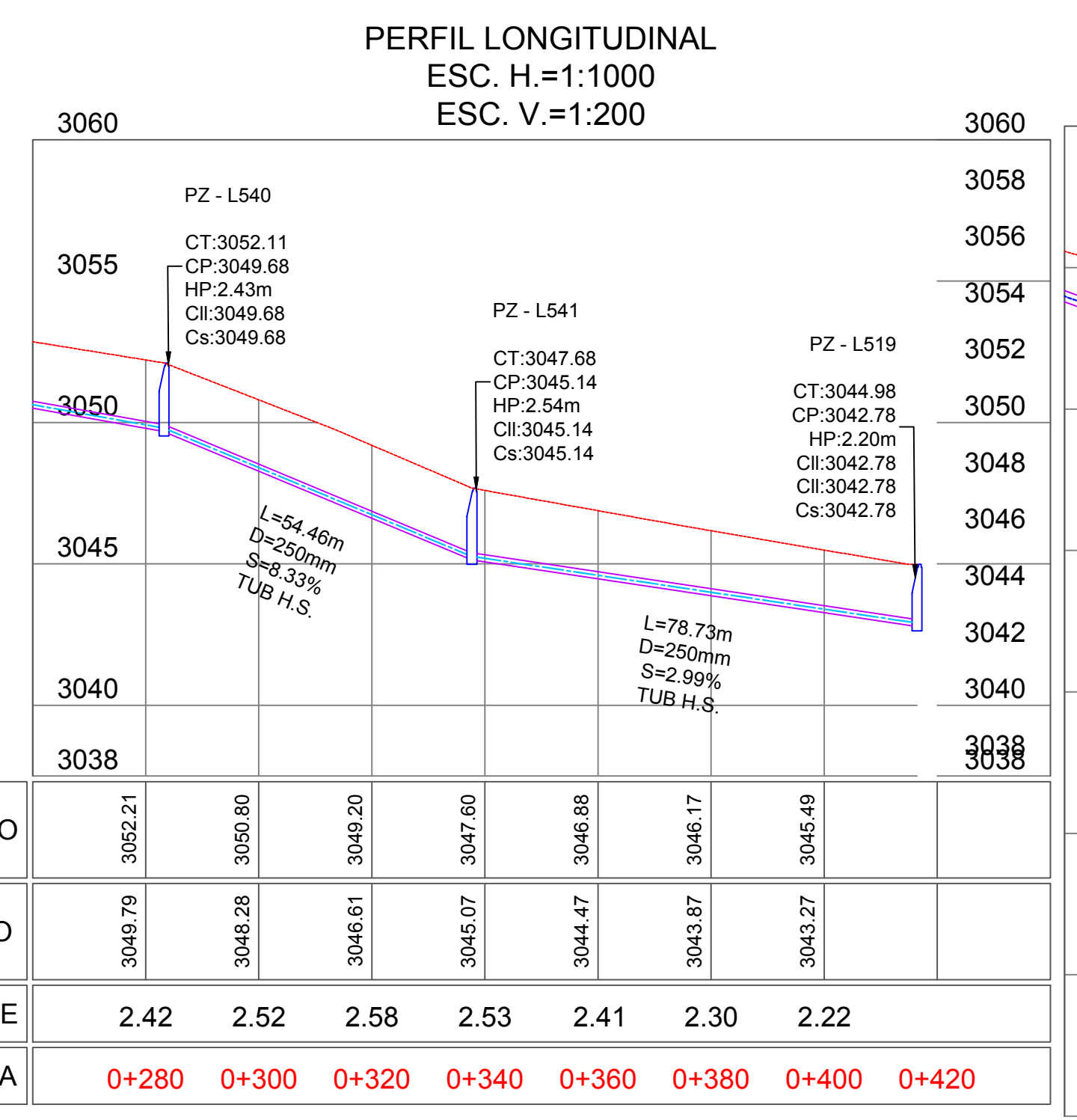
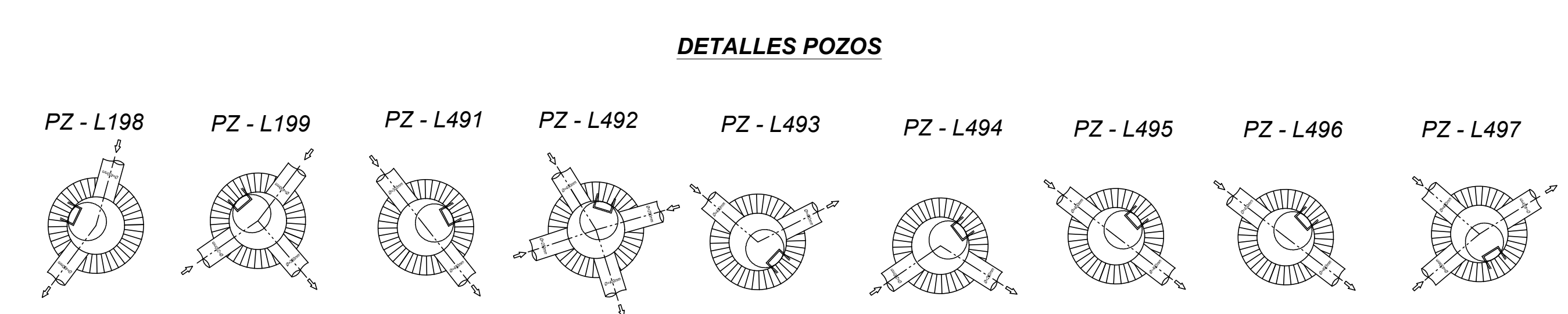
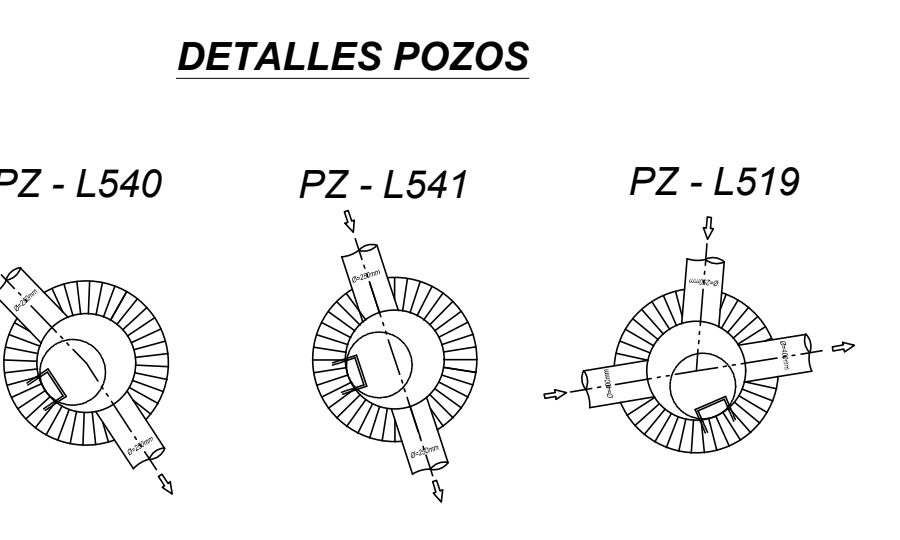
CT COTA TERRENO

CP COTA PROYECTO

CII COTA DE LLEGADA

Cs COTA DE SALIDA

HP ALTURA DE POZO



**RED DE ALCANTARILLADO SANITARIO SANTA LUCÍA**

SANTA LUCÍA LA LIBERTAD

POZO	ESTE (m)	NORTE (m)	C. TERRENO (m)	C. LLEGADA (m)	C. SALIDA (m)
<b>TRAMO R</b>					
PZ-L527	762134.59	9850924.53	3052.52	-	3050.92
PZ-L528	762201.40	9850928.33	3051.16	3049.51	3049.51
PZ-L529	762261.32	9850948.63	3048.94	3047.24	3047.24
PZ-L530	762306.87	9850962.97	3046.97	3045.32	3045.32
PZ-L531	762328.33	9850935.07	3045.60	3043.71	3043.71
PZ-L532	762385.04	9850962.95	3042.29	3040.39	3040.39
PZ-L533	762422.24	9850965.18	3038.28	3036.28	3036.18
PZ-L534	762535.13	9850977.48	3031.78	3029.80	3029.80
PZ-L524	762612.05	9850978.13	3027.04	3026.04	3026.04
<b>TRAMO S</b>					
PZ-L536	762088.33	9850479.81	3009.08	-	3007.26
PZ-L537	762157.70	9850521.11	3005.10	3003.34	3003.34
PZ-L538	762202.20	9850538.96	3002.16	3000.63	3000.63
PZ-L539	762297.39	9850551.92	3004.81	3003.01	3002.81
PZ-L540	762354.85	9850543.11	3002.11	3000.68	3000.68
PZ-L541	762404.64	9850521.04	3007.68	3004.14	3004.14
PZ-L519	762473.52	9850462.92	3004.98	3002.78	3002.78
<b>TRAMO T</b>					
PZ-L542	762226.56	9850297.10	3074.11	-	3072.07
PZ-L543	762340.12	9850389.63	3070.42	3068.32	3068.32
PZ-L544	762351.60	9850443.05	3065.76	3063.76	3063.76
PZ-L545	762360.27	9850496.44	3060.96	3058.76	3058.76
PZ-L539	762367.39	9850551.92	3004.81	3002.83	3002.83
PZ-L546	762378.02	9850522.22	3049.66	3047.36	3047.36
PZ-L547	762388.24	9850695.83	3046.37	3043.77	3043.77
PZ-L492	762391.97	9850790.36	3042.54	3040.77	3040.65
PZ-L531	762328.33	9850935.07	3045.60	-	3043.71
PZ-L535	762314.78	9850861.22	3043.38	3041.78	3041.78
PZ-L492	762391.97	9850790.36	3042.54	3040.77	3040.65
<b>TRAMO T-1</b>					
PZ-L542	762226.56	9850297.10	3074.11	-	3072.07
PZ-L548	762303.30	9850394.47	3067.51	3065.41	3065.41
PZ-L549	762365.41	9850311.33	3062.07	3059.92	3059.92
PZ-L517	762431.45	9850314.23	3056.48	3054.26	3054.26
<b>TRAMO T-2</b>					
PZ-L199	762112.41	9850781.91	3051.97	3048.97	3048.94
PZ-L491	762227.92	9850791.93	3045.46	3043.91	3043.91
PZ-L492	762301.67	9850790.36	3042.54	3040.77	3040.65
PZ-L493	762366.61	9850751.67	3039.52	3038.25	3038.25
PZ-L494	762369.63	9850810.38	3038.60	3037.13	3037.13
PZ-L495	762460.40	9850815.88	3033.49	3032.20	3032.20
PZ-L496	762523.32	9850511.08	3032.04	3031.32	3031.26
PZ-L497	762567.38	9850522.11	3031.91	3030.01	3030.01

**G.A.D. MUNICIPAL DEL CANTÓN TISALEO**

REGISTRO DE SISTEMAS DE ALCANTARILLADO A TRAVÉS DE LA GEOREFERENCIACIÓN Y DIGITALIZACIÓN PARA MEJORAR LA CALIDAD DE INFORMACIÓN SANITARIA DE LA PARROQUIA URBANA TISALEO Y CASERIOS SAN LUIS, SAN FRANCISCO, SAN JUAN, SAN DIEGO, ALDABANA, SANTA LUCÍA LA LIBERTAD, SANTA LUCÍA-CENTRO, SANTA LUCÍA ARRIBA, EL CALVARIO DEL CANTÓN TISALEO, PROVINCIA DE TUNGURAHUA

CONTIENE: RED DE ALCANTARILLADO SANITARIO SANTA LUCÍA - TRAMO S-1.1 - BARRIO EL PORVENIR

UNIVERSIDAD TÉCNICA DE AMBATO  
FACULTAD DE INGENIERÍA CIVIL Y MECÁNICA  
CARRERA DE INGENIERÍA CIVIL

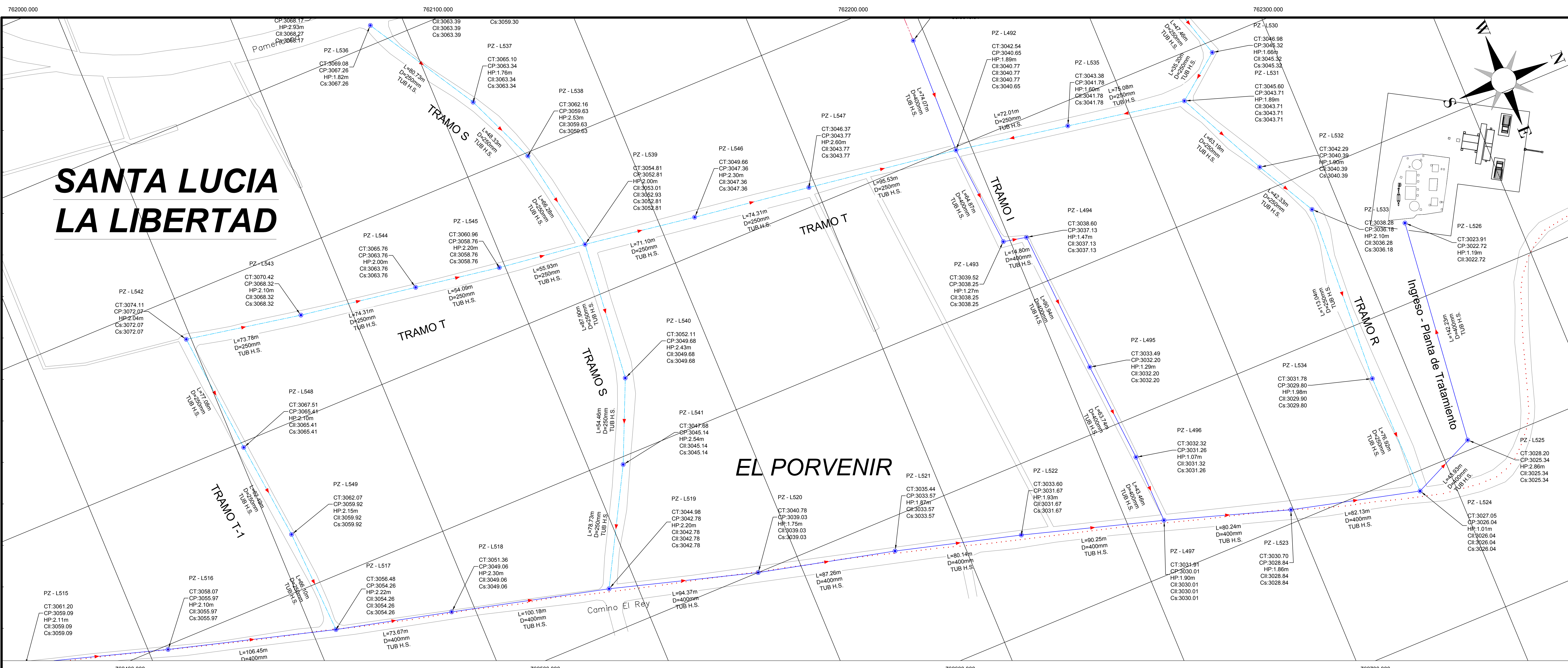
PROVINCIA: TUNGURAHUA  
CANTÓN: TISALEO  
SECTOR: SANTA LUCÍA LA LIBERTAD

FECHA: SEPTIEMBRE 2023  
ESCALA: 1:1000

ELABORADO POR: Eglis Tarrío Bonilla Testa  
REVISADO POR: Ing. Galo Núñez Tutor  
APROBADO POR: Ing. Galo Núñez Tutor

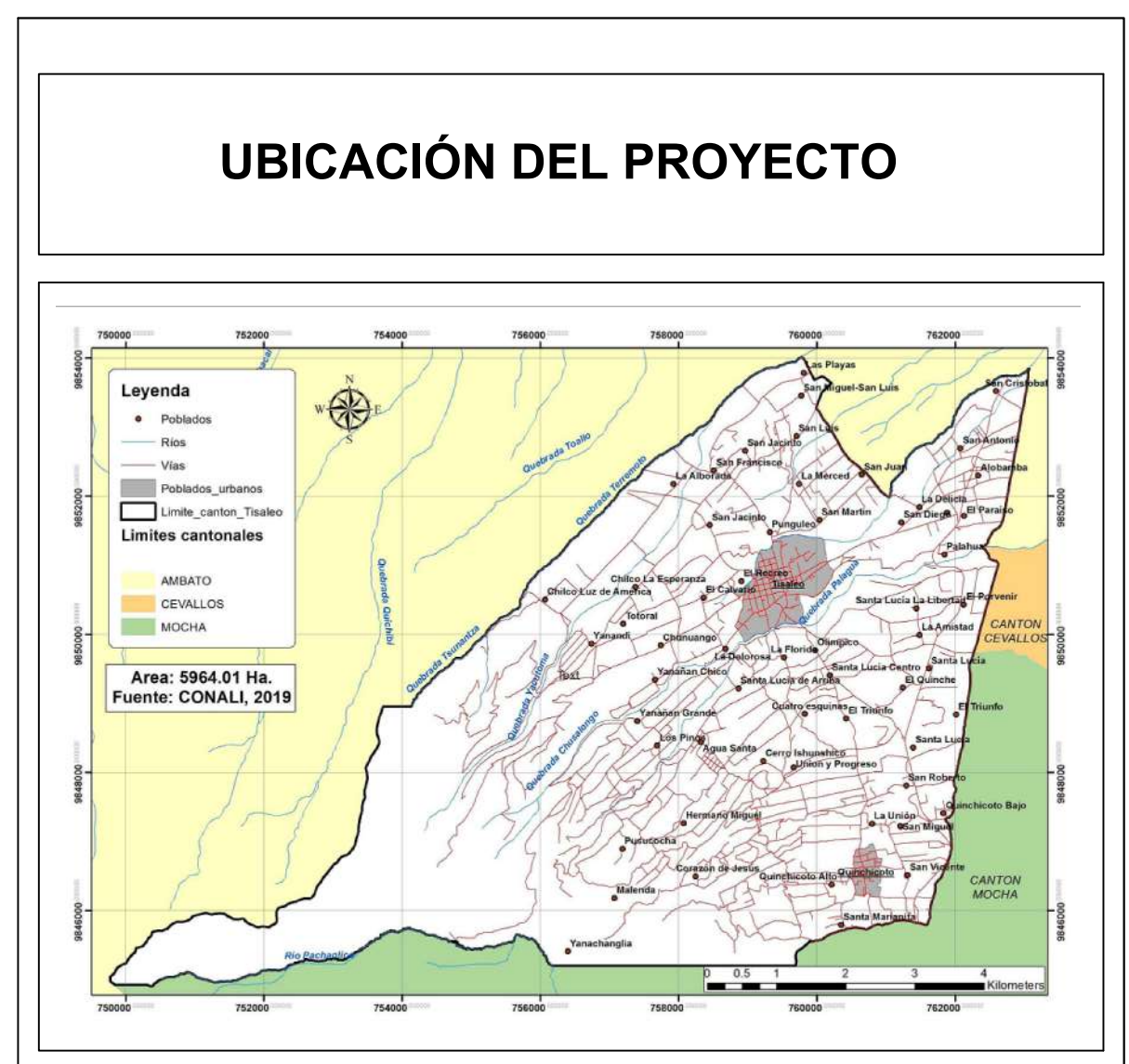
LÁMINA: LÁMINA 39  
TOTAL LÁMINAS: 40





# SANTA LUCIA LA LIBERTAD

# EL PORVENIR



### UBICACIÓN DEL PROYECTO

### DATOS GEOGRÁFICOS

**DATUM:** WGS84 ZONA 17S

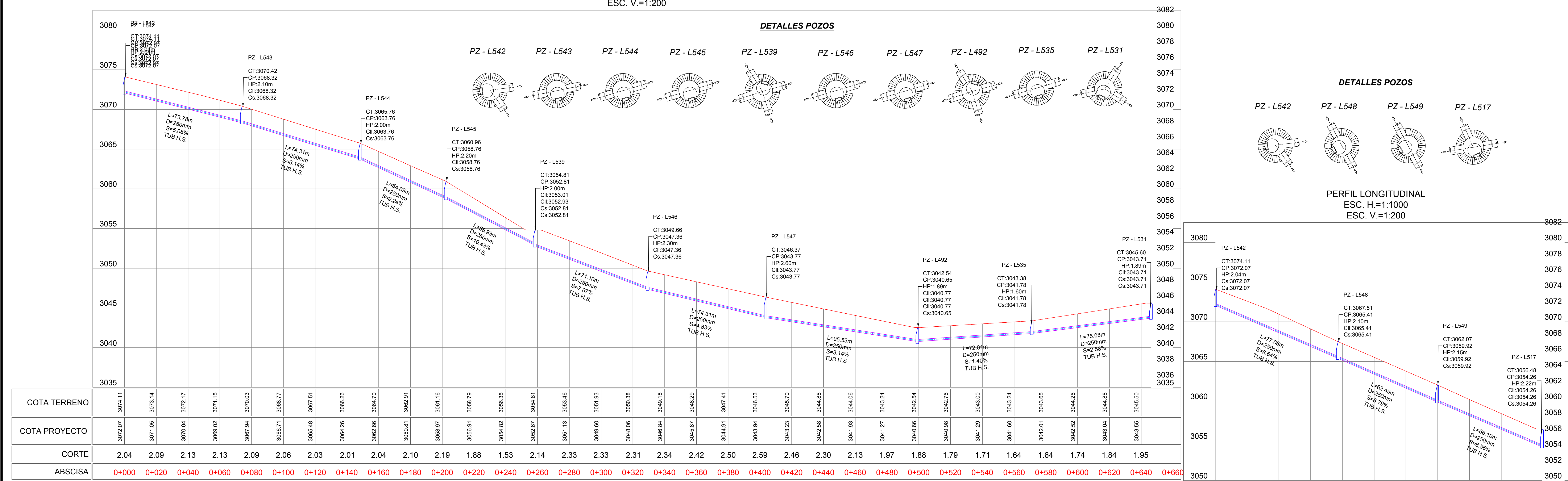
**COORDENADAS UTM:**  
759353.24 m E  
9850780.17 m S

**ALTURA REFERENCIAL:**  
3249 m

### SIMBOLOGÍA

- TUBERÍA PVC D = 250mm
- TUBERÍA PVC D = 300mm
- TUBERÍA H.S. D = 250mm
- TUBERÍA H.S. D = 400mm
- POZO DE REVISIÓN
- PERFIL DEL TERRENO
- CALLES / VÍAS
- LÍMITES TERRITORIALES

PERFIL LONGITUDINAL  
ESC. H.=1:1000  
ESC. V.=1:200



### RED DE ALCANTARILLADO SANITARIO SANTA LUCIA LA LIBERTAD

POZO	ESTE (m)	NORTE (m)	C. TERRENO (m)	C. LLEGADA (m)	C. SALIDA (m)
<b>TRAMO R</b>					
PZ-L527	762134.59	9850924.53	3052.52	-	3050.92
PZ-L528	762201.40	9850928.33	3051.16	3049.51	3049.51
PZ-L529	762261.52	9850948.63	3048.94	3047.24	3047.24
PZ-L530	762306.87	9850962.97	3046.97	3045.32	3045.32
PZ-L531	762328.33	9850935.07	3045.60	3043.71	3043.71
PZ-L532	762385.04	9850962.95	3042.29	3040.39	3040.39
PZ-L533	762422.24	9850963.16	3038.28	3036.28	3036.18
PZ-L534	762335.13	9850977.48	3031.78	3029.90	3029.80
PZ-L535	762312.05	9850978.13	3027.04	3026.04	3026.04
<b>TRAMO S</b>					
PZ-L536	762088.33	9850479.81	3059.08	-	3067.26
PZ-L537	762157.70	9850591.11	3065.10	3063.34	3063.34
PZ-L538	762202.20	9850598.98	3062.16	3059.63	3059.63
PZ-L539	762267.39	9850551.92	3054.81	3053.01	3052.81
PZ-L540	762354.85	9850543.11	3052.11	3049.68	3049.68
PZ-L541	762404.64	9850521.04	3047.68	3045.14	3045.14
PZ-L542	762473.52	9850482.82	3044.98	3042.78	3042.78
<b>TRAMO T</b>					
PZ-L542	762226.56	9850297.10	3074.11	3068.32	3072.07
PZ-L543	762240.12	9850308.63	3070.42	3068.32	3068.32
PZ-L544	762251.80	9850443.05	3065.76	3063.76	3063.76
PZ-L545	762260.27	9850496.44	3060.96	3058.76	3058.76
PZ-L539	762267.39	9850551.92	3054.81	3052.81	3052.81
PZ-L546	762278.02	9850622.22	3049.66	3047.36	3047.36
PZ-L547	762288.24	9850695.83	3046.37	3043.77	3043.77
PZ-L492	762301.87	9850780.36	3042.54	3040.77	3040.65
<b>TRAMO T-1</b>					
PZ-L542	762226.56	9850297.10	3074.11	3072.07	3072.07
PZ-L543	762240.12	9850308.63	3070.42	3068.32	3068.32
PZ-L544	762251.80	9850443.05	3065.76	3063.76	3063.76
PZ-L545	762260.27	9850496.44	3060.96	3058.76	3058.76
PZ-L539	762267.39	9850551.92	3054.81	3052.81	3052.81
PZ-L546	762278.02	9850622.22	3049.66	3047.36	3047.36
PZ-L547	762288.24	9850695.83	3046.37	3043.77	3043.77
PZ-L492	762301.87	9850780.36	3042.54	3040.77	3040.65
<b>TRAMO R</b>					
PZ-L542	762226.56	9850297.10	3074.11	3072.07	3072.07
PZ-L543	762240.12	9850308.63	3070.42	3068.32	3068.32
PZ-L544	762251.80	9850443.05	3065.76	3063.76	3063.76
PZ-L545	762260.27	9850496.44	3060.96	3058.76	3058.76
PZ-L539	762267.39	9850551.92	3054.81	3052.81	3052.81
PZ-L546	762278.02	9850622.22	3049.66	3047.36	3047.36
PZ-L547	762288.24	9850695.83	3046.37	3043.77	3043.77
PZ-L492	762301.87	9850780.36	3042.54	3040.77	3040.65
<b>TRAMO T-1</b>					
PZ-L542	762226.56	9850297.10	3074.11	3072.07	3072.07
PZ-L543	762240.12	9850308.63	3070.42	3068.32	3068.32
PZ-L544	762251.80	9850443.05	3065.76	3063.76	3063.76
PZ-L545	762260.27	9850496.44	3060.96	3058.76	3058.76
PZ-L539	762267.39	9850551.92	3054.81	3052.81	3052.81
PZ-L546	762278.02	9850622.22	3049.66	3047.36	3047.36
PZ-L547	762288.24	9850695.83	3046.37	3043.77	3043.77
PZ-L492	762301.87	9850780.36	3042.54	3040.77	3040.65
<b>TRAMO R</b>					
PZ-L542	762226.56	9850297.10	3074.11	3072.07	3072.07
PZ-L543	762240.12	9850308.63	3070.42	3068.32	3068.32
PZ-L544	762251.80	9850443.05	3065.76	3063.76	3063.76
PZ-L545	762260.27	9850496.44	3060.96	3058.76	3058.76
PZ-L539	762267.39	9850551.92	3054.81	3052.81	3052.81
PZ-L546	762278.02	9850622.22	3049.66	3047.36	3047.36
PZ-L547	762288.24	9850695.83	3046.37	3043.77	3043.77
PZ-L492	762301.87	9850780.36	3042.54	3040.77	3040.65
<b>TRAMO T-1</b>					
PZ-L542	762226.56	9850297.10	3074.11	3072.07	3072.07
PZ-L543	762240.12	9850308.63	3070.42	3068.32	3068.32
PZ-L544	762251.80	9850443.05	3065.76	3063.76	3063.76
PZ-L545	762260.27	9850496.44	3060.96	3058.76	3058.76
PZ-L539	762267.39	9850551.92	3054.81	3052.81	3052.81
PZ-L546	762278.02	9850622.22	3049.66	3047.36	3047.36
PZ-L547	762288.24	9850695.83	3046.37	3043.77	3043.77
PZ-L492	762301.87	9850780.36	3042.54	3040.77	3040.65
<b>TRAMO R</b>					
PZ-L542	762226.56	9850297.10	3074.11	3072.07	3072.07
PZ-L543	762240.12	9850308.63	3070.42	3068.32	3068.32
PZ-L544	762251.80	9850443.05	3065.76	3063.76	3063.76
PZ-L545	762260.27	9850496.44	3060.96	3058.76	3058.76
PZ-L539	762267.39	9850551.92	3054.81	3052.81	3052.81
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PZ-L547	762288.24	9850695.83	3046.37	3043.77	3043.77
PZ-L492	762301.87	9850780.36	3042.54	3040.77	3040.65
<b>TRAMO T-1</b>					
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<b>TRAMO R</b>					
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PZ-L547	762288.24	9850695.83	3046.37	3043.77	3043.77
PZ-L492	762301.87	9850780.36	3042.54	3040.77	3040.65
<b>TRAMO T-1</b>					
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<b>TRAMO R</b>					
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PZ-L547	762288.24	9850695.83	3046.37	3043.77	3043.77
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<b>TRAMO T-1</b>					
PZ-L542	762226.56	9850297.10	3074.11	3072.07	3072.07
PZ-L543	762240.12	9850308.63	3070.42	3068.32	3068.32
PZ-L544	762251.80	9850443.05	3065.76	3063.76	3063.76
PZ-L545	762260.27	9850496.44	3060.96	3058.76	3058.76
PZ-L539	762267.39	9850551.92	3054.81	3052.81	3052.81
PZ-L546	762278.02	9850622.22	3049.66	3047.36	3047.36
PZ-L547	762288.24	9850695.83	3046.37	3043.77	3043.77
PZ-L492	762301.87	9850780.36	3042.54	3040.77	3040.65
<b>TRAMO R</b>					
PZ-L542	762226.56	9850297.10	3074.11	3072.07	3072.07
PZ-L543	762240.12	9850308.63	3070.42	3068.32	3068.32
PZ-L544	762251.80	9850443.05	3065.76	3063.76	3063.76
PZ-L545	762260.27	9850496.44	3060.96	3058.76	3058.76
PZ-L539	762267.39	9850551.92	3054.81	3052.81	3052.81
PZ-L546	762278.02	9850622.22	3049.66	3047.36	3047.36
PZ-L547	762288.24	9850695.83	3046.37	3043.77	3043.77
PZ-L492	762301.87	9850780.36	3042.54	3040.77	3040.65
<b>TRAMO T-1</b>					
PZ-L542	762226.56	9850297.10	3074.11	3072.07	3072.07
PZ-L543	762240.12	9850308.63	3070.42	3068.32	3068.32
PZ-L544	762251.80	9850443.05	3065.76	3063.76	3063.76
PZ-L545	762260.27	9850496.44			