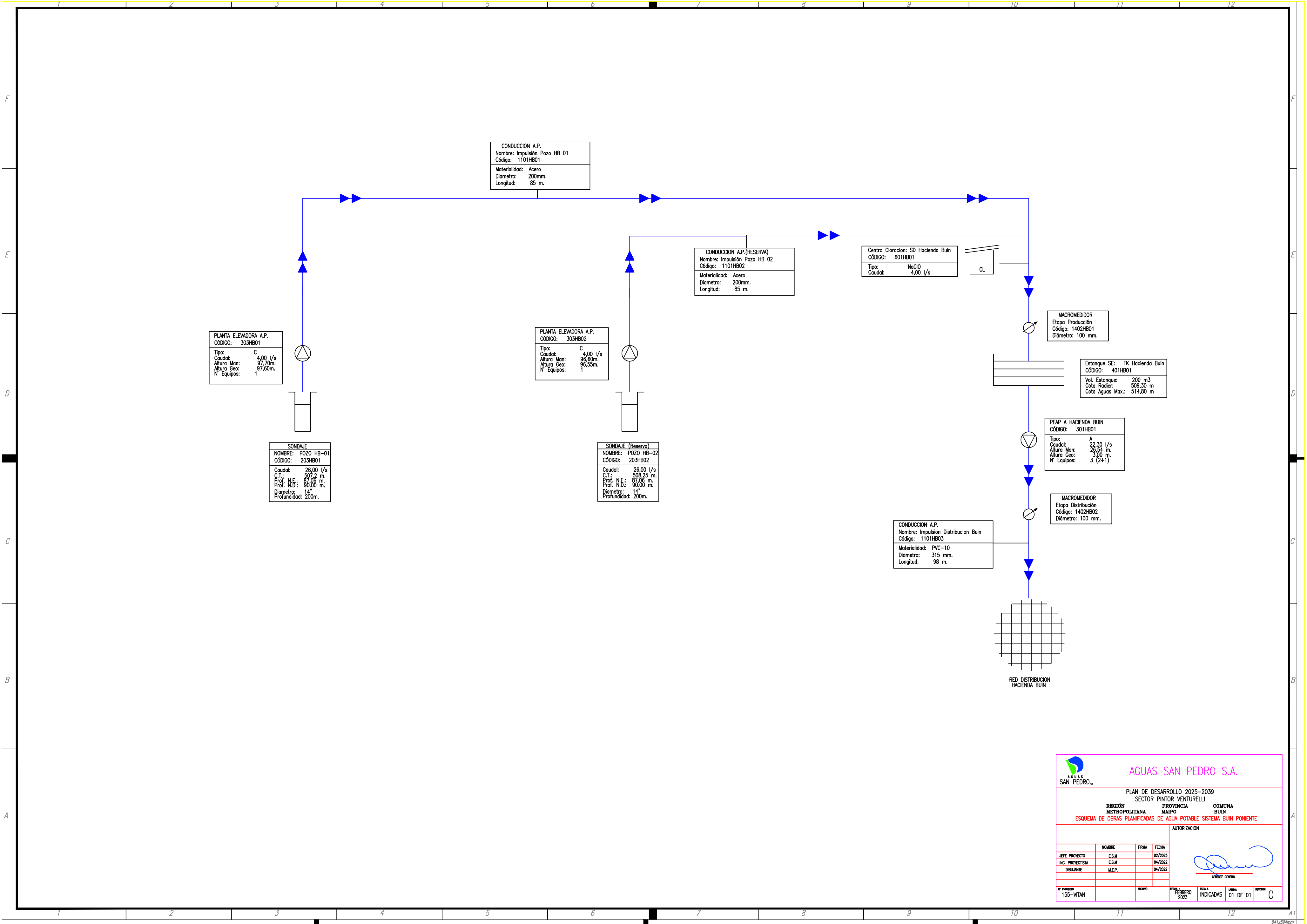


Anexo N°2

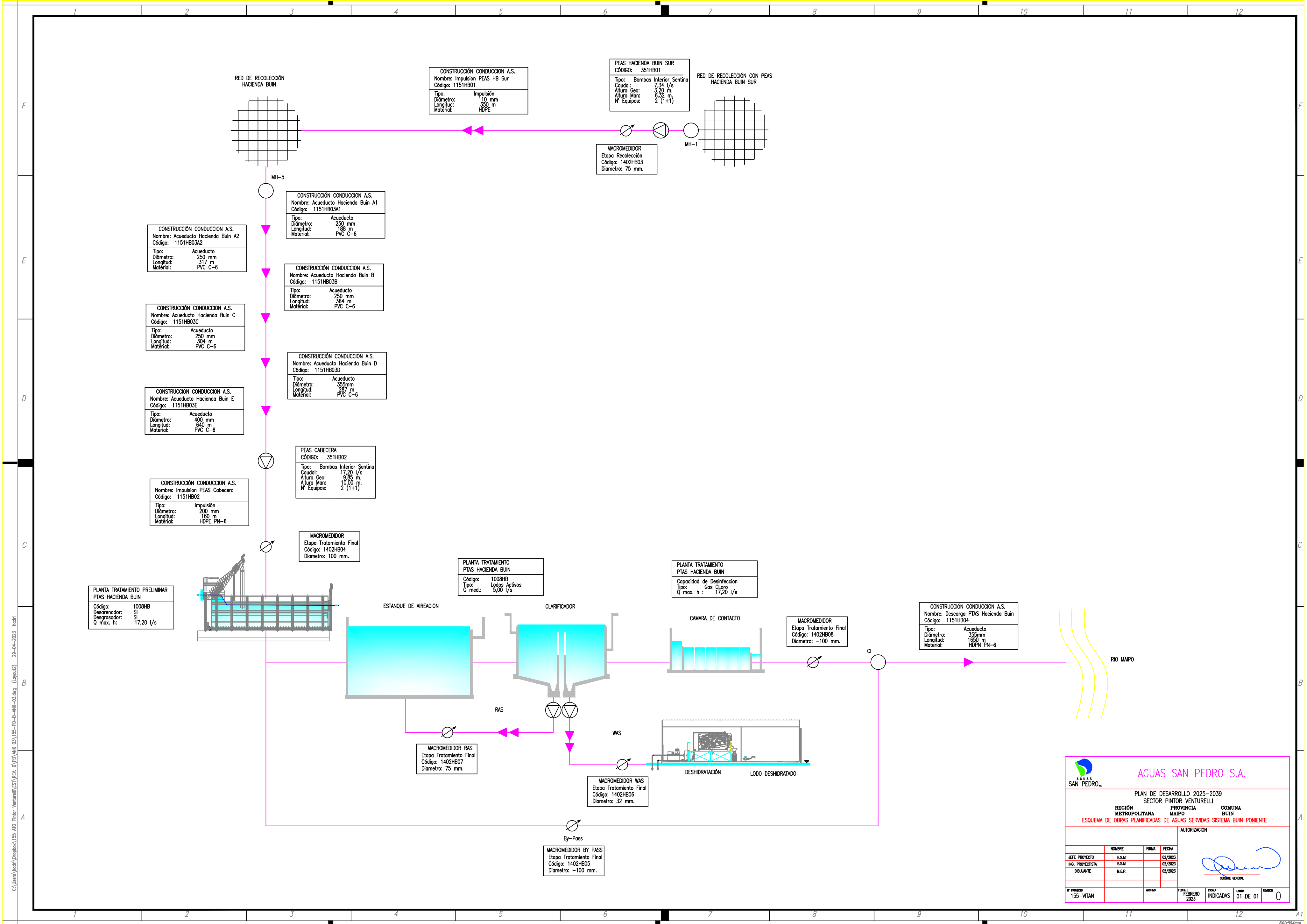
Esquema Obras Planificadas Sistema Agua Potable Buin Poniente



		AGUAS SAN PEDRO S.A.	
PLAN DE DESARROLLO 2025-2039			
SECTOR PINTOR VENTURELLI			
REGION	PROVINCIA	COMUNA	
METROPOLITANA	MAIPO	BUIN	
ESQUEMA DE OBRAS PLANIFICADAS DE AGUA POTABLE SISTEMA BUIN PONIENTE			
AUTORIZACION			
NOMBRE		FIRMA	FECHA
JEFE PROYECTO		E.S.M.	02/2023
ING. PROYECTISTA		E.S.M.	04/2022
DIBUJANTE		M.E.P.	04/2022
GERENTE GENERAL			
N° PROYECTO		FECHA	ESCALA
155-VITAN		FEBRERO 2023	INDICADAS
		LAMINA	REVISION
		01 DE 01	0

Anexo N°3

Esquema Obras Planificadas Sistema Aguas Servidas Buin Poniente





AGUAS SAN PEDRO S.A.

PLAN DE DESARROLLO 2025-2039

SECTOR PINTOR VENTURELLI

REGION METROPOLITANA MAIPO PROVINCIA MAIPO COMUNA BUIN

ESQUEMA DE OBRAS PLANIFICADAS DE AGUAS SERVIDAS SISTEMA BUIN PONIENTE

	NOMBRE	FIRMA	FECHA
JEFE PROYECTO	E.S.M.		02/2023
ING. PROYECTISTA	E.S.M.		02/2023
DIBUJANTE	M.E.P.		02/2023

AUTORIZACION

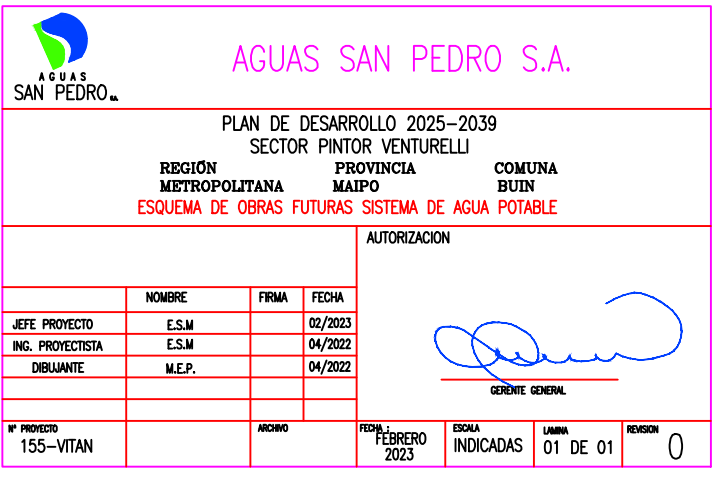


GERENTE GENERAL

N° PROYECTO	FECHA	ESCALA	INDICADAS	HOJA	DE	REVISION
155-VITAN	FEBRERO 2023			01	DE 01	0

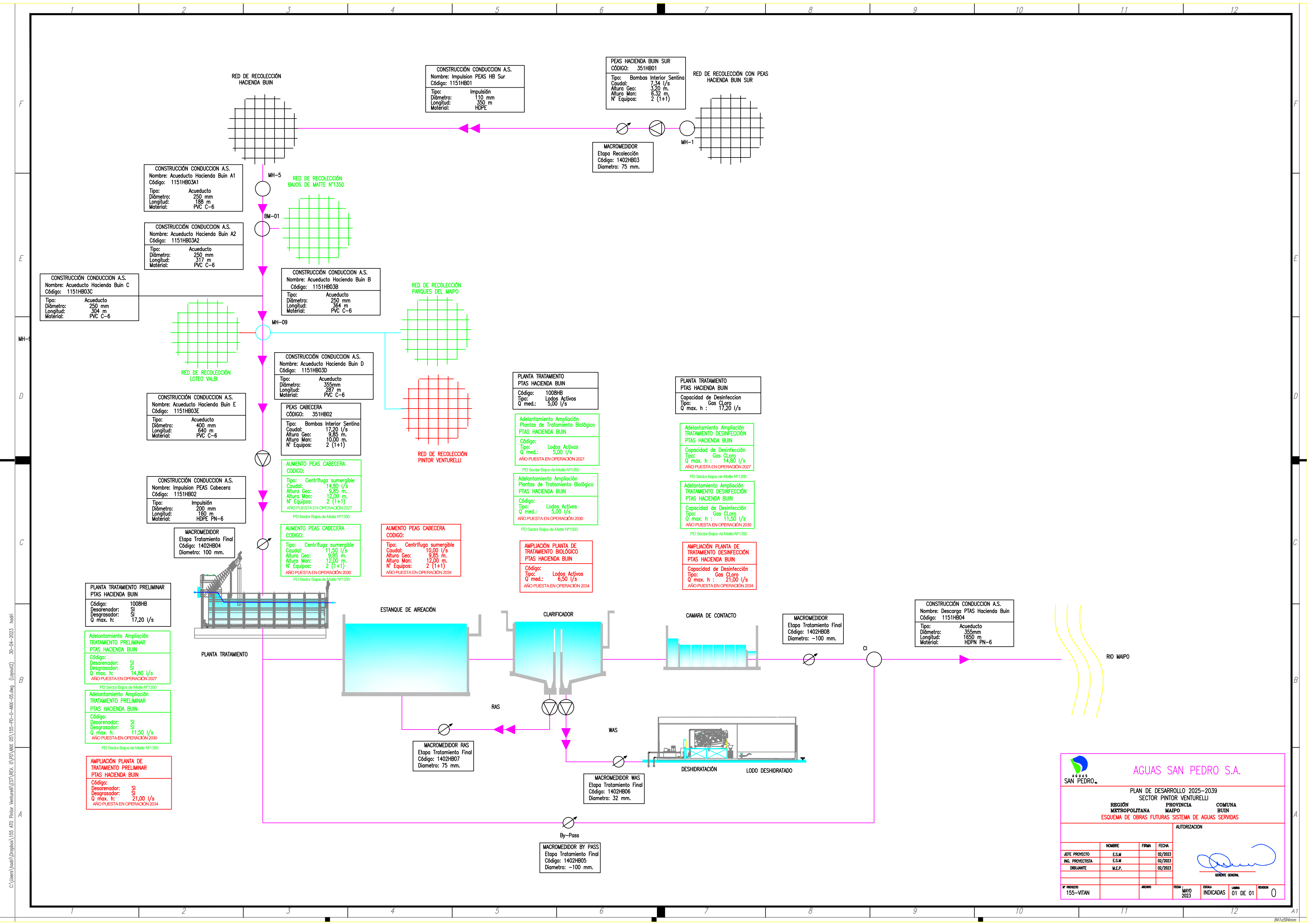
Anexo N°4

**Esquema Obras Futuras
Sistema Agua Potable
Solicitud Pintor Venturelli**



Anexo N°5

**Esquema Obras Futuras
Sistema Aguas Servidas
Solicitud Pintor Venturelli**



C:\Users\jvian\Documents\155-ATD-Pintor Venturini\ESTRUC. 01\155-PD-C-AN-015.dwg (Loguiz) 30-04-2023 hndi



AGUAS SAN PEDRO S.A.

PLAN DE DESARROLLO 2025-2039

SECTOR PINTOR VENTURELLI

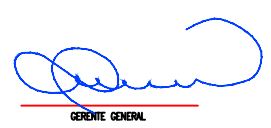
REGION METROPOLITANA MAIPO PROVINCIA MAIPO COMUNA BUIN

ESQUEMA DE OBRAS FUTURAS SISTEMA DE AGUAS SERVIDAS

AUTORIZACION

NOMBRE	FIRMA	FECHA
JEFE PROYECTO	E.S.M.	02/2023
ING. PROYECTISTA	E.S.M.	02/2023
DELUANTE	M.E.P.	02/2023

GERENTE GENERAL



Nº PROYECTO 155-VITAN

FECHA MAYO 2023

ESCALA INDICADAS

LAMA 01 DE 01

REVISION 0

Anexo N°6

Verificación Hidráulica Red de Distribución

Anexo N°6.1
Verificación Hidráulica Red de
Distribución a Caudal máximo
horario

AÑO 1

FlexTable: Junction Table

Current Time: 8.00 hours

Label	Elevation (m)	Demand (L/s)	Hydraulic Grade (m)	Pressure (m H2O)
J-50	461.69	0.03	525.79	63.96
J-23	470.25	0.46	525.56	55.20
J-49	470.51	0.03	525.79	55.17
J-53	470.59	0.03	525.79	55.08
J-48	471.00	0.03	525.79	54.68
J-35	472.76	0.16	525.76	52.89
J-62	472.73	0.24	525.62	52.79
J-34	473.00	0.16	525.76	52.66
J-46	473.40	0.03	525.79	52.28
J-51	473.65	0.03	525.79	52.03
J-52	473.74	0.03	525.79	51.94
J-60	474.58	0.24	525.64	50.96
J-25	474.54	0.46	525.51	50.87
J-24	474.96	0.46	525.53	50.47
J-32	475.87	0.16	525.77	49.80
J-28	476.31	0.00	525.80	49.39
J-47	476.35	0.03	525.79	49.34
J-22	476.21	0.46	525.62	49.31
J-45	477.59	0.03	525.79	48.11
J-11	467.13	0.10	515.24	48.01
J-19	477.69	0.00	525.79	48.01
J-42	478.13	0.16	525.76	47.54
J-20	478.73	0.46	525.72	46.90
J-12	468.42	0.10	515.24	46.73
J-40	479.03	0.16	525.77	46.64
J-41	479.10	0.16	525.77	46.57
J-26	478.93	0.46	525.50	46.48
J-29	479.36	0.00	525.82	46.37
J-55	479.76	0.24	525.64	45.78
J-27	480.27	0.46	525.48	45.12
J-21	480.65	0.46	525.67	44.94
J-58	480.97	0.24	525.62	44.55
J-59	481.46	0.24	525.62	44.06
J-56	481.73	0.24	525.62	43.81
J-54	482.33	0.03	525.79	43.37
J-36	483.29	0.16	525.75	42.38
J-14	474.47	0.10	515.25	40.70
J-39	485.32	0.16	525.75	40.34
J-15	475.44	0.10	515.25	39.73
J-16	475.45	0.10	515.25	39.72
J-17	475.85	0.10	515.25	39.32
J-57	486.96	0.24	525.62	38.58
J-5	477.00	0.10	515.24	38.16
J-38	487.97	0.16	525.75	37.70
J-2	479.30	0.10	515.24	35.87
J-6	480.42	0.10	515.24	34.75
J-18	480.91	0.00	515.26	34.28
J-13	481.46	0.10	515.25	33.73
J-10	481.66	0.10	515.25	33.52
J-4	482.41	0.10	515.24	32.77
J-3	482.78	0.10	515.24	32.40

FlexTable: Junction Table

Current Time: 8.00 hours

Label	Elevation (m)	Demand (L/s)	Hydraulic Grade (m)	Pressure (m H2O)
J-8	483.54	0.10	515.26	31.65
J-37	494.12	0.16	525.75	31.57
J-9	486.85	0.10	515.25	28.34

FlexTable: Pipe Table

Current Time: 8.00 hours

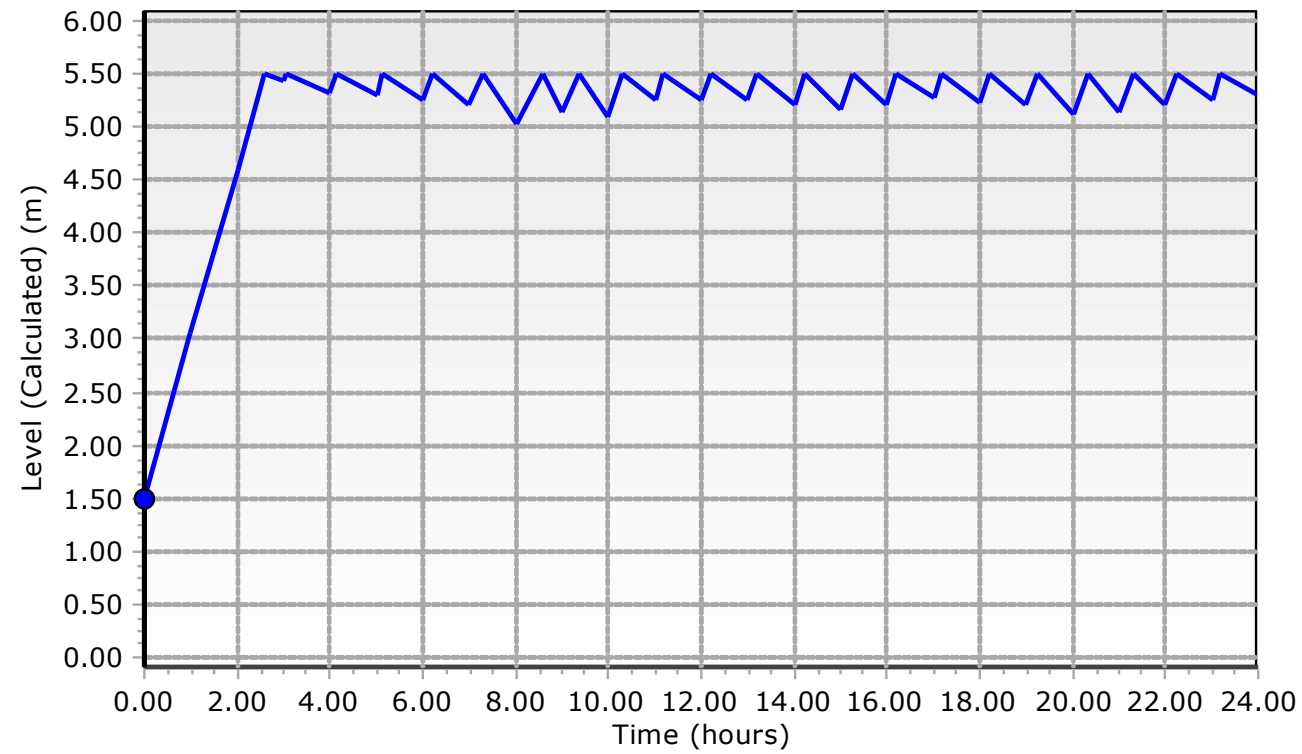
Label	Start Node	Stop Node	Diameter (mm)	Material	Flow (L/s)	Velocity (m/s)	Pressure Loss (kPa)
P-2	R-1	PMP-1	1,000.0	Steel	17.35	0.02	0.0
P-3	R-2	PMP-2	1,000.0	Steel	(N/A)	(N/A)	(N/A)
P-19(2)	J-28	J-19	235.4	PVC	7.26	0.17	0.1
P-19(1)(2)	J-29	J-28	235.4	PVC	7.26	0.17	0.2
P-5	T-1	PMP-3	180.8	PVC	1.55	0.06	0.0
P-18	T-1	PMP-4	180.8	PVC	3.63	0.14	0.0
P-19(1)(1)	PMP-4	J-29	180.8	PVC	3.63	0.14	0.0
P-28	T-1	PMP-6	180.8	PVC	3.63	0.14	0.0
P-29	PMP-6	J-29	180.8	PVC	3.63	0.14	0.0
P-32	J-19	J-32	180.8	PVC	1.55	0.06	0.2
P-42	J-19	J-45	180.8	PVC	0.31	0.01	0.0
P-6(1)(1)	PMP-3	J-18	180.8	PVC	1.55	0.06	0.0
P-6(1)(2)	J-18	J-8	180.8	PVC	1.55	0.06	0.0
P-1	PMP-1	T-1	128.9	Steel	17.35	1.33	8.8
P-7	J-2	J-3	126.6	PVC	0.41	0.03	0.0
P-8	J-3	J-4	126.6	PVC	0.31	0.02	0.0
P-9	J-4	J-5	126.6	PVC	0.21	0.02	0.0
P-10	J-5	J-6	126.6	PVC	0.10	0.01	0.0
P-6(2)(2)	J-9	J-2	126.6	PVC	0.72	0.06	0.0
P-6(2)(1)(1)	J-8	J-10	126.6	PVC	0.93	0.07	0.1
P-6(2)(1)(2)	J-10	J-9	126.6	PVC	0.83	0.07	0.0
P-11	J-2	J-11	126.6	PVC	0.21	0.02	0.0
P-12	J-11	J-12	126.6	PVC	0.10	0.01	0.0
P-13	J-8	J-13	126.6	PVC	0.52	0.04	0.0
P-14	J-13	J-14	126.6	PVC	0.41	0.03	0.0
P-15	J-14	J-15	126.6	PVC	0.31	0.02	0.0
P-16	J-15	J-16	126.6	PVC	0.21	0.02	0.0
P-20	J-19	J-20	126.6	PVC	3.68	0.29	0.6
P-21	J-20	J-21	126.6	PVC	3.22	0.26	0.5
P-22	J-21	J-22	126.6	PVC	2.76	0.22	0.5
P-23	J-22	J-23	126.6	PVC	2.30	0.18	0.6
P-24	J-23	J-24	126.6	PVC	1.84	0.15	0.3
P-25	J-24	J-25	126.6	PVC	1.38	0.11	0.2
P-26	J-25	J-26	126.6	PVC	0.92	0.07	0.1
P-33	J-32	J-34	126.6	PVC	0.93	0.07	0.1
P-34	J-34	J-35	126.6	PVC	0.78	0.06	0.1
P-35	J-35	J-36	126.6	PVC	0.62	0.05	0.0
P-36	J-36	J-37	126.6	PVC	0.47	0.04	0.0
P-37	J-37	J-38	126.6	PVC	0.31	0.02	0.0
P-38	J-38	J-39	126.6	PVC	0.16	0.01	0.0
P-39	J-32	J-40	126.6	PVC	0.47	0.04	0.0
P-40	J-40	J-41	126.6	PVC	0.31	0.02	0.0
P-41	J-41	J-42	126.6	PVC	0.16	0.01	0.0
P-43	J-45	J-46	126.6	PVC	0.28	0.02	0.0
P-44	J-46	J-47	126.6	PVC	0.19	0.01	0.0
P-45	J-47	J-48	126.6	PVC	0.12	0.01	0.0

FlexTable: Pipe Table

Current Time: 8.00 hours

Label	Start Node	Stop Node	Diameter (mm)	Material	Flow (L/s)	Velocity (m/s)	Pressure Loss (kPa)
P-46	J-48	J-49	126.6	PVC	0.09	0.01	0.0
P-47	J-49	J-50	126.6	PVC	0.03	0.00	0.0
P-48	J-49	J-51	126.6	PVC	0.03	0.00	0.0
P-49	J-47	J-52	126.6	PVC	0.03	0.00	0.0
P-50	J-46	J-53	126.6	PVC	0.06	0.00	0.0
P-51	J-53	J-54	126.6	PVC	0.03	0.00	0.0
P-52	J-19	J-55	126.6	PVC	1.71	0.14	1.5
P-53	J-55	J-56	126.6	PVC	1.22	0.10	0.2
P-54	J-56	J-57	126.6	PVC	0.73	0.06	0.0
P-55	J-57	J-58	126.6	PVC	0.49	0.04	0.0
P-56	J-58	J-59	126.6	PVC	0.24	0.02	0.0
P-57	J-55	J-60	126.6	PVC	0.24	0.02	0.0
P-58	J-56	J-62	126.6	PVC	0.24	0.02	0.0
P-17	J-16	J-17	99.4	PVC	0.10	0.01	0.0
P-27	J-26	J-27	99.4	PVC	0.46	0.06	0.1

New Graph



T-1 - Año 1 (2025) Qmaxh - Level (Calculated)

AÑO 5

FlexTable: Junction Table

Current Time: 8.00 hours

Label	Elevation (m)	Demand (L/s)	Hydraulic Grade (m)	Pressure (m H2O)
J-50	461.69	0.11	524.08	62.26
J-49	470.51	0.11	524.08	53.46
J-53	470.59	0.11	524.09	53.38
J-48	471.00	0.11	524.08	52.97
J-35	472.76	0.47	523.84	50.98
J-34	473.00	0.47	523.88	50.78
J-46	473.40	0.11	524.09	50.58
J-51	473.65	0.11	524.08	50.32
J-52	473.74	0.11	524.08	50.24
J-23	470.25	2.47	518.95	48.60
J-32	475.87	0.47	523.93	47.96
J-28	476.31	0.00	524.27	47.86
J-62	472.73	1.28	520.56	47.73
J-47	476.35	0.11	524.08	47.64
J-11	467.13	0.31	514.78	47.55
J-45	477.59	0.11	524.09	46.42
J-19	477.69	0.00	524.10	46.32
J-12	468.42	0.31	514.78	46.27
J-60	474.58	1.28	520.92	46.25
J-42	478.13	0.47	523.91	45.69
J-29	479.36	0.00	524.68	45.23
J-40	479.03	0.47	523.92	44.80
J-41	479.10	0.47	523.91	44.72
J-22	476.21	2.47	520.31	44.01
J-20	478.73	2.47	522.63	43.81
J-24	474.96	2.47	518.28	43.23
J-25	474.54	2.47	517.83	43.21
J-54	482.33	0.11	524.09	41.67
J-55	479.76	1.28	520.94	41.09
J-21	480.65	2.47	521.51	40.78
J-36	483.29	0.47	523.81	40.44
J-14	474.47	0.31	514.85	40.30
J-58	480.97	1.28	520.40	39.35
J-15	475.44	0.31	514.84	39.32
J-16	475.45	0.31	514.84	39.31
J-17	475.85	0.31	514.84	38.91
J-59	481.46	1.28	520.39	38.85
J-56	481.73	1.28	520.57	38.76
J-26	478.93	2.47	517.55	38.55
J-39	485.32	0.47	523.79	38.39
J-5	477.00	0.31	514.77	37.69
J-27	480.27	2.47	517.22	36.88
J-38	487.97	0.47	523.79	35.75
J-2	479.30	0.31	514.79	35.41
J-6	480.42	0.31	514.77	34.28
J-18	480.91	0.00	514.90	33.92
J-57	486.96	1.28	520.46	33.44
J-13	481.46	0.31	514.86	33.34
J-10	481.66	0.31	514.83	33.11
J-4	482.41	0.31	514.77	32.30
J-3	482.78	0.31	514.78	31.94

FlexTable: Junction Table

Current Time: 8.00 hours

Label	Elevation (m)	Demand (L/s)	Hydraulic Grade (m)	Pressure (m H2O)
J-8	483.54	0.31	514.88	31.28
J-37	494.12	0.47	523.80	29.62
J-9	486.85	0.31	514.81	27.90

FlexTable: Pipe Table

Current Time: 8.00 hours

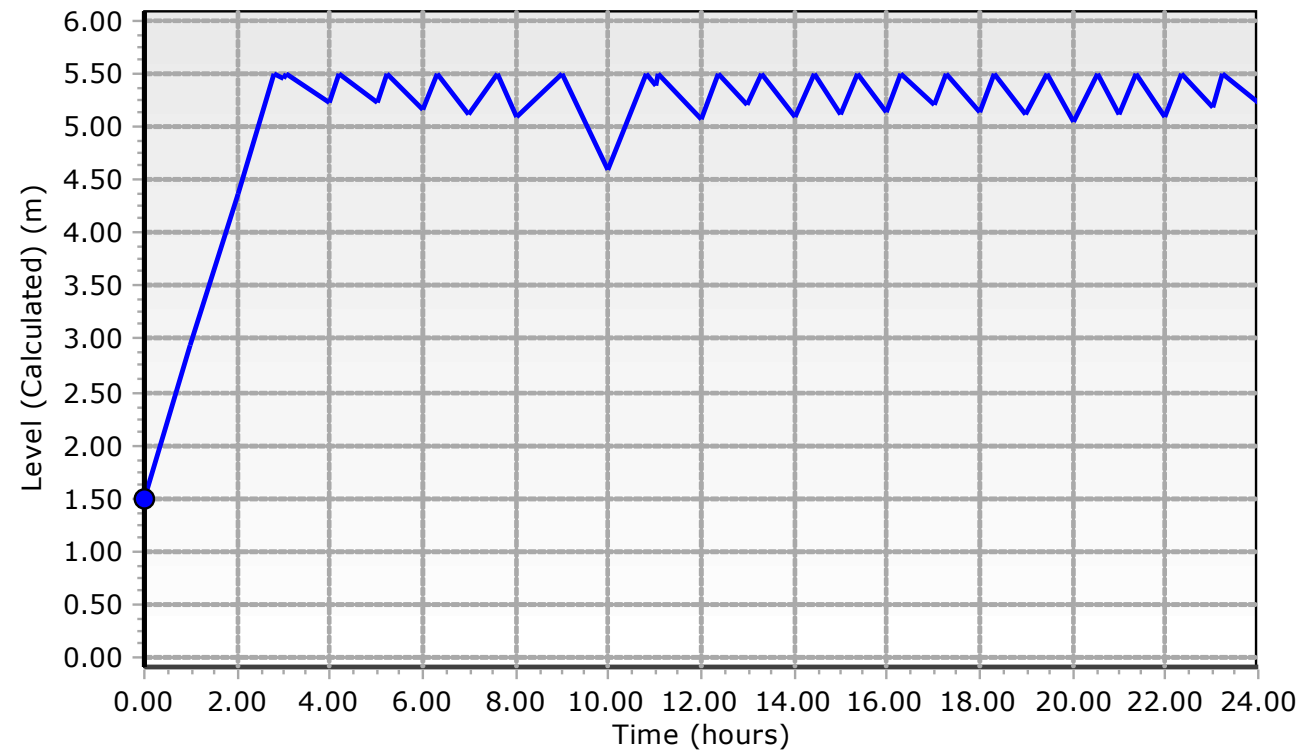
Label	Start Node	Stop Node	Diameter (mm)	Material	Flow (L/s)	Velocity (m/s)	Pressure Loss (kPa)
P-2	R-1	PMP-1	1,000.0	Steel	51.20	0.07	0.0
P-3	R-2	PMP-2	1,000.0	Steel	(N/A)	(N/A)	(N/A)
P-19(2)	J-28	J-19	235.4	PVC	34.46	0.79	1.7
P-19(1)(2)	J-29	J-28	235.4	PVC	34.46	0.79	4.0
P-5	T-1	PMP-3	180.8	PVC	4.66	0.18	0.0
P-18	T-1	PMP-4	180.8	PVC	17.23	0.67	0.1
P-19(1)(1)	PMP-4	J-29	180.8	PVC	17.23	0.67	0.1
P-28	T-1	PMP-6	180.8	PVC	17.23	0.67	0.1
P-29	PMP-6	J-29	180.8	PVC	17.23	0.67	0.1
P-32	J-19	J-32	180.8	PVC	4.66	0.18	1.7
P-42	J-19	J-45	180.8	PVC	1.09	0.04	0.0
P-6(1)(1)	PMP-3	J-18	180.8	PVC	4.66	0.18	0.0
P-6(1)(2)	J-18	J-8	180.8	PVC	4.66	0.18	0.2
P-1	PMP-1	T-1	128.9	Steel	51.20	3.92	65.6
P-7	J-2	J-3	126.6	PVC	1.24	0.10	0.1
P-8	J-3	J-4	126.6	PVC	0.93	0.07	0.1
P-9	J-4	J-5	126.6	PVC	0.62	0.05	0.0
P-10	J-5	J-6	126.6	PVC	0.31	0.02	0.0
P-6(2)(2)	J-9	J-2	126.6	PVC	2.17	0.17	0.2
P-6(2)(1)(1)	J-8	J-10	126.6	PVC	2.80	0.22	0.5
P-6(2)(1)(2)	J-10	J-9	126.6	PVC	2.49	0.20	0.2
P-11	J-2	J-11	126.6	PVC	0.62	0.05	0.1
P-12	J-11	J-12	126.6	PVC	0.31	0.02	0.0
P-13	J-8	J-13	126.6	PVC	1.55	0.12	0.2
P-14	J-13	J-14	126.6	PVC	1.24	0.10	0.1
P-15	J-14	J-15	126.6	PVC	0.93	0.07	0.1
P-16	J-15	J-16	126.6	PVC	0.62	0.05	0.0
P-20	J-19	J-20	126.6	PVC	19.78	1.57	14.4
P-21	J-20	J-21	126.6	PVC	17.31	1.38	11.0
P-22	J-21	J-22	126.6	PVC	14.84	1.18	11.8
P-23	J-22	J-23	126.6	PVC	12.36	0.98	13.3
P-24	J-23	J-24	126.6	PVC	9.89	0.79	6.6
P-25	J-24	J-25	126.6	PVC	7.42	0.59	4.4
P-26	J-25	J-26	126.6	PVC	4.95	0.39	2.7
P-33	J-32	J-34	126.6	PVC	2.80	0.22	0.4
P-34	J-34	J-35	126.6	PVC	2.33	0.19	0.4
P-35	J-35	J-36	126.6	PVC	1.86	0.15	0.3
P-36	J-36	J-37	126.6	PVC	1.40	0.11	0.1
P-37	J-37	J-38	126.6	PVC	0.93	0.07	0.1
P-38	J-38	J-39	126.6	PVC	0.47	0.04	0.0
P-39	J-32	J-40	126.6	PVC	1.40	0.11	0.1
P-40	J-40	J-41	126.6	PVC	0.93	0.07	0.1
P-41	J-41	J-42	126.6	PVC	0.47	0.04	0.0
P-43	J-45	J-46	126.6	PVC	0.98	0.08	0.1
P-44	J-46	J-47	126.6	PVC	0.65	0.05	0.0
P-45	J-47	J-48	126.6	PVC	0.43	0.03	0.0

FlexTable: Pipe Table

Current Time: 8.00 hours

Label	Start Node	Stop Node	Diameter (mm)	Material	Flow (L/s)	Velocity (m/s)	Pressure Loss (kPa)
P-46	J-48	J-49	126.6	PVC	0.33	0.03	0.0
P-47	J-49	J-50	126.6	PVC	0.11	0.01	0.0
P-48	J-49	J-51	126.6	PVC	0.11	0.01	0.0
P-49	J-47	J-52	126.6	PVC	0.11	0.01	0.0
P-50	J-46	J-53	126.6	PVC	0.22	0.02	0.0
P-51	J-53	J-54	126.6	PVC	0.11	0.01	0.0
P-52	J-19	J-55	126.6	PVC	8.93	0.71	30.9
P-53	J-55	J-56	126.6	PVC	6.38	0.51	3.6
P-54	J-56	J-57	126.6	PVC	3.83	0.30	1.0
P-55	J-57	J-58	126.6	PVC	2.55	0.20	0.7
P-56	J-58	J-59	126.6	PVC	1.28	0.10	0.0
P-57	J-55	J-60	126.6	PVC	1.28	0.10	0.1
P-58	J-56	J-62	126.6	PVC	1.28	0.10	0.1
P-17	J-16	J-17	99.4	PVC	0.31	0.04	0.0
P-27	J-26	J-27	99.4	PVC	2.47	0.32	3.2

New Graph



T-1 - Año 5 (2029) Qmaxh - Level (Calculated)

AÑO 15

FlexTable: Junction Table

Current Time: 8.00 hours

Label	Elevation (m)	Demand (L/s)	Hydraulic Grade (m)	Pressure (m H2O)
J-50	461.69	0.59	522.89	61.08
J-53	470.59	0.59	523.03	52.33
J-49	470.51	0.59	522.90	52.28
J-48	471.00	0.59	522.93	51.82
J-62	472.73	0.57	522.55	49.72
J-46	473.40	0.59	523.04	49.54
J-51	473.65	0.59	522.89	49.14
J-52	473.74	0.59	522.95	49.11
J-34	473.00	1.33	521.84	48.74
J-35	472.76	1.33	521.55	48.69
J-60	474.58	0.57	522.64	47.96
J-28	476.31	0.00	523.66	47.25
J-47	476.35	0.59	522.96	46.52
J-32	475.87	1.33	522.15	46.19
J-23	470.25	3.01	515.93	45.59
J-19	477.69	0.00	523.35	45.57
J-45	477.59	0.59	523.25	45.57
J-29	479.36	0.00	524.39	44.94
J-42	478.13	1.33	522.02	43.81
J-11	467.13	0.94	511.03	43.80
J-40	479.03	1.33	522.07	42.96
J-41	479.10	1.33	522.03	42.84
J-55	479.76	0.57	522.64	42.79
J-12	468.42	0.94	511.02	42.51
J-20	478.73	3.01	521.23	42.42
J-22	476.21	3.01	517.89	41.59
J-58	480.97	0.57	522.52	41.46
J-59	481.46	0.57	522.52	40.97
J-56	481.73	0.57	522.56	40.75
J-54	482.33	0.59	523.03	40.62
J-24	474.96	3.01	514.96	39.92
J-25	474.54	3.01	514.31	39.70
J-21	480.65	3.01	519.62	38.89
J-36	483.29	1.33	521.32	37.96
J-14	474.47	0.94	511.54	36.99
J-15	475.44	0.94	511.49	35.98
J-16	475.45	0.94	511.46	35.94
J-39	485.32	1.33	521.17	35.77
J-17	475.85	0.94	511.46	35.54
J-57	486.96	0.57	522.53	35.50
J-26	478.93	3.01	513.91	34.92
J-5	477.00	0.94	510.93	33.86
J-38	487.97	1.33	521.18	33.14
J-27	480.27	3.01	513.44	33.10
J-2	479.30	0.94	511.07	31.70
J-18	480.91	0.00	511.94	30.96
J-6	480.42	0.94	510.93	30.44
J-13	481.46	0.94	511.64	30.12
J-10	481.66	0.94	511.43	29.71
J-4	482.41	0.94	510.95	28.49
J-8	483.54	0.94	511.78	28.19

FlexTable: Junction Table

Current Time: 8.00 hours

Label	Elevation (m)	Demand (L/s)	Hydraulic Grade (m)	Pressure (m H2O)
J-3	482.78	0.94	511.00	28.17
J-37	494.12	1.33	521.23	27.05
J-9	486.85	0.94	511.24	24.34

FlexTable: Pipe Table

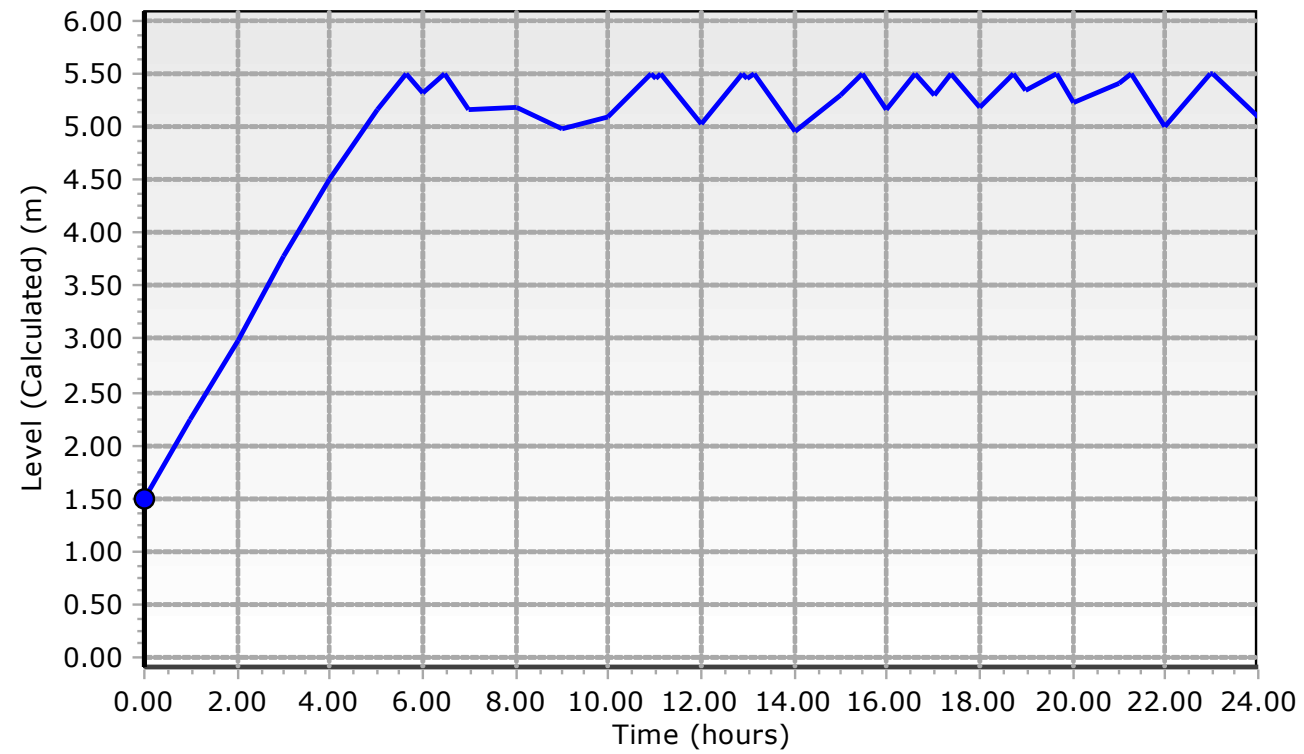
Current Time: 8.00 hours

Label	Start Node	Stop Node	Diameter (mm)	Material	Flow (L/s)	Velocity (m/s)	Pressure Loss (kPa)
P-2	R-1	PMP-1	1,000.0	Steel	51.17	0.07	0.0
P-3	R-2	PMP-2	1,000.0	Steel	(N/A)	(N/A)	(N/A)
P-19(2)	J-28	J-19	235.4	PVC	47.32	1.09	3.0
P-19(1)(2)	J-29	J-28	235.4	PVC	47.32	1.09	7.2
P-5	T-1	PMP-3	180.8	PVC	14.07	0.55	0.0
P-18	T-1	PMP-4	180.8	PVC	23.66	0.92	0.1
P-19(1)(1)	PMP-4	J-29	180.8	PVC	23.66	0.92	0.1
P-28	T-1	PMP-6	180.8	PVC	23.66	0.92	0.2
P-29	PMP-6	J-29	180.8	PVC	23.66	0.92	0.1
P-32	J-19	J-32	180.8	PVC	13.33	0.52	11.7
P-42	J-19	J-45	180.8	PVC	5.91	0.23	1.0
P-6(1)(1)	PMP-3	J-18	180.8	PVC	14.07	0.55	0.1
P-6(1)(2)	J-18	J-8	180.8	PVC	14.07	0.55	1.5
P-1	PMP-1	T-1	128.9	Steel	51.17	3.92	65.5
P-7	J-2	J-3	126.6	PVC	3.75	0.30	0.7
P-8	J-3	J-4	126.6	PVC	2.81	0.22	0.5
P-9	J-4	J-5	126.6	PVC	1.88	0.15	0.2
P-10	J-5	J-6	126.6	PVC	0.94	0.07	0.1
P-6(2)(2)	J-9	J-2	126.6	PVC	6.57	0.52	1.6
P-6(2)(1)(1)	J-8	J-10	126.6	PVC	8.44	0.67	3.5
P-6(2)(1)(2)	J-10	J-9	126.6	PVC	7.51	0.60	1.9
P-11	J-2	J-11	126.6	PVC	1.88	0.15	0.4
P-12	J-11	J-12	126.6	PVC	0.94	0.07	0.1
P-13	J-8	J-13	126.6	PVC	4.69	0.37	1.4
P-14	J-13	J-14	126.6	PVC	3.75	0.30	1.0
P-15	J-14	J-15	126.6	PVC	2.81	0.22	0.5
P-16	J-15	J-16	126.6	PVC	1.88	0.15	0.3
P-20	J-19	J-20	126.6	PVC	24.09	1.91	20.7
P-21	J-20	J-21	126.6	PVC	21.08	1.67	15.8
P-22	J-21	J-22	126.6	PVC	18.07	1.44	16.9
P-23	J-22	J-23	126.6	PVC	15.06	1.20	19.2
P-24	J-23	J-24	126.6	PVC	12.05	0.96	9.5
P-25	J-24	J-25	126.6	PVC	9.04	0.72	6.3
P-26	J-25	J-26	126.6	PVC	6.02	0.48	3.9
P-33	J-32	J-34	126.6	PVC	8.00	0.64	3.1
P-34	J-34	J-35	126.6	PVC	6.66	0.53	2.8
P-35	J-35	J-36	126.6	PVC	5.33	0.42	2.3
P-36	J-36	J-37	126.6	PVC	4.00	0.32	0.9
P-37	J-37	J-38	126.6	PVC	2.67	0.21	0.5
P-38	J-38	J-39	126.6	PVC	1.33	0.11	0.1
P-39	J-32	J-40	126.6	PVC	4.00	0.32	0.8
P-40	J-40	J-41	126.6	PVC	2.67	0.21	0.4
P-41	J-41	J-42	126.6	PVC	1.33	0.11	0.1
P-43	J-45	J-46	126.6	PVC	5.32	0.42	2.0
P-44	J-46	J-47	126.6	PVC	3.55	0.28	0.8
P-45	J-47	J-48	126.6	PVC	2.36	0.19	0.3

FlexTable: Pipe Table
Current Time: 8.00 hours

Label	Start Node	Stop Node	Diameter (mm)	Material	Flow (L/s)	Velocity (m/s)	Pressure Loss (kPa)
P-46	J-48	J-49	126.6	PVC	1.77	0.14	0.3
P-47	J-49	J-50	126.6	PVC	0.59	0.05	0.0
P-48	J-49	J-51	126.6	PVC	0.59	0.05	0.0
P-49	J-47	J-52	126.6	PVC	0.59	0.05	0.1
P-50	J-46	J-53	126.6	PVC	1.18	0.09	0.1
P-51	J-53	J-54	126.6	PVC	0.59	0.05	0.0
P-52	J-19	J-55	126.6	PVC	3.99	0.32	7.0
P-53	J-55	J-56	126.6	PVC	2.85	0.23	0.8
P-54	J-56	J-57	126.6	PVC	1.71	0.14	0.2
P-55	J-57	J-58	126.6	PVC	1.14	0.09	0.1
P-56	J-58	J-59	126.6	PVC	0.57	0.05	0.0
P-57	J-55	J-60	126.6	PVC	0.57	0.05	0.0
P-58	J-56	J-62	126.6	PVC	0.57	0.05	0.0
P-17	J-16	J-17	99.4	PVC	0.94	0.12	0.1
P-27	J-26	J-27	99.4	PVC	3.01	0.39	4.6

New Graph



T-1 - Año 15 (2039) Qmaxh - Level (Calculated)

Anexo N°6.2
Verificación Hidráulica Red de
Distribución a caudal estático

AÑO 1

FlexTable: Junction Table

Current Time: 2.00 hours

Label	Elevation (m)	Demand (L/s)	Hydraulic Grade (m)	Pressure (m H2O)
J-50	461.69	0.01	525.57	63.74
J-23	470.25	0.08	525.56	55.19
J-49	470.51	0.01	525.57	54.95
J-53	470.59	0.01	525.57	54.86
J-48	471.00	0.01	525.57	54.46
J-62	472.73	0.04	525.56	52.72
J-35	472.76	0.03	525.57	52.70
J-34	473.00	0.03	525.57	52.46
J-46	473.40	0.01	525.57	52.06
J-51	473.65	0.01	525.57	51.81
J-52	473.74	0.01	525.57	51.72
J-25	474.54	0.08	525.56	50.92
J-60	474.58	0.04	525.56	50.88
J-24	474.96	0.08	525.56	50.50
J-32	475.87	0.03	525.57	49.60
J-22	476.21	0.08	525.56	49.25
J-28	476.31	0.00	525.57	49.15
J-47	476.35	0.01	525.57	49.12
J-45	477.59	0.01	525.57	47.89
J-19	477.69	0.00	525.57	47.78
J-11	467.13	0.02	514.89	47.66
J-42	478.13	0.03	525.57	47.34
J-20	478.73	0.08	525.56	46.74
J-26	478.93	0.08	525.56	46.53
J-40	479.03	0.03	525.57	46.44
J-12	468.42	0.02	514.89	46.38
J-41	479.10	0.03	525.57	46.37
J-29	479.36	0.00	525.57	46.11
J-55	479.76	0.04	525.56	45.70
J-27	480.27	0.08	525.55	45.19
J-21	480.65	0.08	525.56	44.83
J-58	480.97	0.04	525.56	44.50
J-59	481.46	0.04	525.56	44.01
J-56	481.73	0.04	525.56	43.74
J-54	482.33	0.01	525.57	43.15
J-36	483.29	0.03	525.57	42.19
J-14	474.47	0.02	514.89	40.34
J-39	485.32	0.03	525.57	40.16
J-15	475.44	0.02	514.89	39.37
J-16	475.45	0.02	514.89	39.36
J-17	475.85	0.02	514.89	38.96
J-57	486.96	0.04	525.56	38.52
J-5	477.00	0.02	514.89	37.82
J-38	487.97	0.03	525.57	37.52
J-2	479.30	0.02	514.89	35.52
J-6	480.42	0.02	514.89	34.40
J-18	480.91	0.00	514.89	33.91
J-13	481.46	0.02	514.89	33.37
J-10	481.66	0.02	514.89	33.16
J-4	482.41	0.02	514.89	32.42
J-3	482.78	0.02	514.89	32.05

FlexTable: Junction Table

Current Time: 2.00 hours

Label	Elevation (m)	Demand (L/s)	Hydraulic Grade (m)	Pressure (m H2O)
J-37	494.12	0.03	525.57	31.38
J-8	483.54	0.02	514.89	31.29
J-9	486.85	0.02	514.89	27.99

FlexTable: Pipe Table

Current Time: 2.00 hours

Label	Start Node	Stop Node	Diameter (mm)	Material	Flow (L/s)	Velocity (m/s)	Pressure Loss (kPa)
P-2	R-1	PMP-1	1,000.0	Steel	17.40	0.02	0.0
P-3	R-2	PMP-2	1,000.0	Steel	(N/A)	(N/A)	(N/A)
P-19(2)	J-28	J-19	235.4	PVC	1.30	0.03	0.0
P-19(1)(2)	J-29	J-28	235.4	PVC	1.30	0.03	0.0
P-5	T-1	PMP-3	180.8	PVC	0.28	0.01	0.0
P-18	T-1	PMP-4	180.8	PVC	0.65	0.03	0.0
P-19(1)(1)	PMP-4	J-29	180.8	PVC	0.65	0.03	0.0
P-28	T-1	PMP-6	180.8	PVC	0.65	0.03	0.0
P-29	PMP-6	J-29	180.8	PVC	0.65	0.03	0.0
P-32	J-19	J-32	180.8	PVC	0.28	0.01	0.0
P-42	J-19	J-45	180.8	PVC	0.06	0.00	0.0
P-6(1)(1)	PMP-3	J-18	180.8	PVC	0.28	0.01	0.0
P-6(1)(2)	J-18	J-8	180.8	PVC	0.28	0.01	0.0
P-1	PMP-1	T-1	128.9	Steel	17.40	1.33	8.9
P-7	J-2	J-3	126.6	PVC	0.07	0.01	0.0
P-8	J-3	J-4	126.6	PVC	0.06	0.00	0.0
P-9	J-4	J-5	126.6	PVC	0.04	0.00	0.0
P-10	J-5	J-6	126.6	PVC	0.02	0.00	0.0
P-6(2)(2)	J-9	J-2	126.6	PVC	0.13	0.01	0.0
P-6(2)(1)(1)	J-8	J-10	126.6	PVC	0.17	0.01	0.0
P-6(2)(1)(2)	J-10	J-9	126.6	PVC	0.15	0.01	0.0
P-11	J-2	J-11	126.6	PVC	0.04	0.00	0.0
P-12	J-11	J-12	126.6	PVC	0.02	0.00	0.0
P-13	J-8	J-13	126.6	PVC	0.09	0.01	0.0
P-14	J-13	J-14	126.6	PVC	0.07	0.01	0.0
P-15	J-14	J-15	126.6	PVC	0.06	0.00	0.0
P-16	J-15	J-16	126.6	PVC	0.04	0.00	0.0
P-20	J-19	J-20	126.6	PVC	0.66	0.05	0.0
P-21	J-20	J-21	126.6	PVC	0.58	0.05	0.0
P-22	J-21	J-22	126.6	PVC	0.49	0.04	0.0
P-23	J-22	J-23	126.6	PVC	0.41	0.03	0.0
P-24	J-23	J-24	126.6	PVC	0.33	0.03	0.0
P-25	J-24	J-25	126.6	PVC	0.25	0.02	0.0
P-26	J-25	J-26	126.6	PVC	0.16	0.01	0.0
P-33	J-32	J-34	126.6	PVC	0.17	0.01	0.0
P-34	J-34	J-35	126.6	PVC	0.14	0.01	0.0
P-35	J-35	J-36	126.6	PVC	0.11	0.01	0.0
P-36	J-36	J-37	126.6	PVC	0.08	0.01	0.0
P-37	J-37	J-38	126.6	PVC	0.06	0.00	0.0
P-38	J-38	J-39	126.6	PVC	0.03	0.00	0.0
P-39	J-32	J-40	126.6	PVC	0.08	0.01	0.0
P-40	J-40	J-41	126.6	PVC	0.06	0.00	0.0
P-41	J-41	J-42	126.6	PVC	0.03	0.00	0.0
P-43	J-45	J-46	126.6	PVC	0.05	0.00	0.0
P-44	J-46	J-47	126.6	PVC	0.03	0.00	0.0
P-45	J-47	J-48	126.6	PVC	0.02	0.00	0.0

FlexTable: Pipe Table
Current Time: 2.00 hours

Label	Start Node	Stop Node	Diameter (mm)	Material	Flow (L/s)	Velocity (m/s)	Pressure Loss (kPa)
P-46	J-48	J-49	126.6	PVC	0.02	0.00	0.0
P-47	J-49	J-50	126.6	PVC	0.01	0.00	0.0
P-48	J-49	J-51	126.6	PVC	0.01	0.00	0.0
P-49	J-47	J-52	126.6	PVC	0.01	0.00	0.0
P-50	J-46	J-53	126.6	PVC	0.01	0.00	0.0
P-51	J-53	J-54	126.6	PVC	0.01	0.00	0.0
P-52	J-19	J-55	126.6	PVC	0.31	0.02	0.1
P-53	J-55	J-56	126.6	PVC	0.22	0.02	0.0
P-54	J-56	J-57	126.6	PVC	0.13	0.01	0.0
P-55	J-57	J-58	126.6	PVC	0.09	0.01	0.0
P-56	J-58	J-59	126.6	PVC	0.04	0.00	0.0
P-57	J-55	J-60	126.6	PVC	0.04	0.00	0.0
P-58	J-56	J-62	126.6	PVC	0.04	0.00	0.0
P-17	J-16	J-17	99.4	PVC	0.02	0.00	0.0
P-27	J-26	J-27	99.4	PVC	0.08	0.01	0.0

AÑO 5

FlexTable: Junction Table

Current Time: 2.00 hours

Label	Elevation (m)	Demand (L/s)	Hydraulic Grade (m)	Pressure (m H2O)
J-50	461.69	0.02	525.27	63.45
J-23	470.25	0.44	525.06	54.70
J-49	470.51	0.02	525.27	54.65
J-53	470.59	0.02	525.27	54.57
J-48	471.00	0.02	525.27	54.16
J-35	472.76	0.08	525.26	52.39
J-62	472.73	0.23	525.13	52.29
J-34	473.00	0.08	525.26	52.16
J-46	473.40	0.02	525.27	51.77
J-51	473.65	0.02	525.27	51.51
J-52	473.74	0.02	525.27	51.42
J-60	474.58	0.23	525.14	50.46
J-25	474.54	0.44	525.01	50.38
J-24	474.96	0.44	525.03	49.97
J-32	475.87	0.08	525.27	49.30
J-28	476.31	0.00	525.28	48.87
J-47	476.35	0.02	525.27	48.83
J-22	476.21	0.44	525.12	48.81
J-45	477.59	0.02	525.27	47.59
J-19	477.69	0.00	525.27	47.49
J-11	467.13	0.06	514.64	47.41
J-42	478.13	0.08	525.26	47.04
J-20	478.73	0.44	525.21	46.39
J-40	479.03	0.08	525.27	46.14
J-12	468.42	0.06	514.64	46.13
J-41	479.10	0.08	525.26	46.07
J-26	478.93	0.44	525.00	45.98
J-29	479.36	0.00	525.30	45.84
J-55	479.76	0.23	525.14	45.29
J-27	480.27	0.44	524.99	44.63
J-21	480.65	0.44	525.17	44.43
J-58	480.97	0.23	525.12	44.06
J-59	481.46	0.23	525.12	43.57
J-56	481.73	0.23	525.13	43.31
J-54	482.33	0.02	525.27	42.85
J-36	483.29	0.08	525.26	41.89
J-14	474.47	0.06	514.64	40.09
J-39	485.32	0.08	525.26	39.86
J-15	475.44	0.06	514.64	39.12
J-16	475.45	0.06	514.64	39.11
J-17	475.85	0.06	514.64	38.72
J-57	486.96	0.23	525.12	38.09
J-5	477.00	0.06	514.64	37.56
J-38	487.97	0.08	525.26	37.22
J-2	479.30	0.06	514.64	35.27
J-6	480.42	0.06	514.64	34.15
J-18	480.91	0.00	514.65	33.66
J-13	481.46	0.06	514.64	33.12
J-10	481.66	0.06	514.64	32.91
J-4	482.41	0.06	514.64	32.17
J-3	482.78	0.06	514.64	31.80

FlexTable: Junction Table

Current Time: 2.00 hours

Label	Elevation (m)	Demand (L/s)	Hydraulic Grade (m)	Pressure (m H2O)
J-37	494.12	0.08	525.26	31.08
J-8	483.54	0.06	514.64	31.04
J-9	486.85	0.06	514.64	27.74

FlexTable: Pipe Table

Current Time: 2.00 hours

Label	Start Node	Stop Node	Diameter (mm)	Material	Flow (L/s)	Velocity (m/s)	Pressure Loss (kPa)
P-2	R-1	PMP-1	1,000.0	Steel	51.47	0.07	0.0
P-3	R-2	PMP-2	1,000.0	Steel	(N/A)	(N/A)	(N/A)
P-19(2)	J-28	J-19	235.4	PVC	6.16	0.14	0.1
P-19(1)(2)	J-29	J-28	235.4	PVC	6.16	0.14	0.2
P-5	T-1	PMP-3	180.8	PVC	0.83	0.03	0.0
P-18	T-1	PMP-4	180.8	PVC	3.08	0.12	0.0
P-19(1)(1)	PMP-4	J-29	180.8	PVC	3.08	0.12	0.0
P-28	T-1	PMP-6	180.8	PVC	3.08	0.12	0.0
P-29	PMP-6	J-29	180.8	PVC	3.08	0.12	0.0
P-32	J-19	J-32	180.8	PVC	0.83	0.03	0.1
P-42	J-19	J-45	180.8	PVC	0.19	0.01	0.0
P-6(1)(1)	PMP-3	J-18	180.8	PVC	0.83	0.03	0.0
P-6(1)(2)	J-18	J-8	180.8	PVC	0.83	0.03	0.0
P-1	PMP-1	T-1	128.9	Steel	51.47	3.94	66.2
P-7	J-2	J-3	126.6	PVC	0.22	0.02	0.0
P-8	J-3	J-4	126.6	PVC	0.17	0.01	0.0
P-9	J-4	J-5	126.6	PVC	0.11	0.01	0.0
P-10	J-5	J-6	126.6	PVC	0.06	0.00	0.0
P-6(2)(2)	J-9	J-2	126.6	PVC	0.39	0.03	0.0
P-6(2)(1)(1)	J-8	J-10	126.6	PVC	0.50	0.04	0.0
P-6(2)(1)(2)	J-10	J-9	126.6	PVC	0.44	0.04	0.0
P-11	J-2	J-11	126.6	PVC	0.11	0.01	0.0
P-12	J-11	J-12	126.6	PVC	0.06	0.00	0.0
P-13	J-8	J-13	126.6	PVC	0.28	0.02	0.0
P-14	J-13	J-14	126.6	PVC	0.22	0.02	0.0
P-15	J-14	J-15	126.6	PVC	0.17	0.01	0.0
P-16	J-15	J-16	126.6	PVC	0.11	0.01	0.0
P-20	J-19	J-20	126.6	PVC	3.53	0.28	0.6
P-21	J-20	J-21	126.6	PVC	3.09	0.25	0.5
P-22	J-21	J-22	126.6	PVC	2.65	0.21	0.5
P-23	J-22	J-23	126.6	PVC	2.21	0.18	0.5
P-24	J-23	J-24	126.6	PVC	1.77	0.14	0.3
P-25	J-24	J-25	126.6	PVC	1.33	0.11	0.2
P-26	J-25	J-26	126.6	PVC	0.88	0.07	0.1
P-33	J-32	J-34	126.6	PVC	0.50	0.04	0.0
P-34	J-34	J-35	126.6	PVC	0.42	0.03	0.0
P-35	J-35	J-36	126.6	PVC	0.33	0.03	0.0
P-36	J-36	J-37	126.6	PVC	0.25	0.02	0.0
P-37	J-37	J-38	126.6	PVC	0.17	0.01	0.0
P-38	J-38	J-39	126.6	PVC	0.08	0.01	0.0
P-39	J-32	J-40	126.6	PVC	0.25	0.02	0.0
P-40	J-40	J-41	126.6	PVC	0.17	0.01	0.0
P-41	J-41	J-42	126.6	PVC	0.08	0.01	0.0
P-43	J-45	J-46	126.6	PVC	0.17	0.01	0.0
P-44	J-46	J-47	126.6	PVC	0.12	0.01	0.0
P-45	J-47	J-48	126.6	PVC	0.08	0.01	0.0

FlexTable: Pipe Table
Current Time: 2.00 hours

Label	Start Node	Stop Node	Diameter (mm)	Material	Flow (L/s)	Velocity (m/s)	Pressure Loss (kPa)
P-46	J-48	J-49	126.6	PVC	0.06	0.00	0.0
P-47	J-49	J-50	126.6	PVC	0.02	0.00	0.0
P-48	J-49	J-51	126.6	PVC	0.02	0.00	0.0
P-49	J-47	J-52	126.6	PVC	0.02	0.00	0.0
P-50	J-46	J-53	126.6	PVC	0.04	0.00	0.0
P-51	J-53	J-54	126.6	PVC	0.02	0.00	0.0
P-52	J-19	J-55	126.6	PVC	1.60	0.13	1.3
P-53	J-55	J-56	126.6	PVC	1.14	0.09	0.1
P-54	J-56	J-57	126.6	PVC	0.68	0.05	0.0
P-55	J-57	J-58	126.6	PVC	0.46	0.04	0.0
P-56	J-58	J-59	126.6	PVC	0.23	0.02	0.0
P-57	J-55	J-60	126.6	PVC	0.23	0.02	0.0
P-58	J-56	J-62	126.6	PVC	0.23	0.02	0.0
P-17	J-16	J-17	99.4	PVC	0.06	0.01	0.0
P-27	J-26	J-27	99.4	PVC	0.44	0.06	0.1

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FlexTable: Junction Table

Current Time: 2.00 hours

Label	Elevation (m)	Demand (L/s)	Hydraulic Grade (m)	Pressure (m H2O)
J-50	461.69	0.11	523.74	61.93
J-49	470.51	0.11	523.74	53.13
J-23	470.25	0.54	523.46	53.10
J-53	470.59	0.11	523.75	53.05
J-48	471.00	0.11	523.75	52.64
J-35	472.76	0.24	523.69	50.82
J-34	473.00	0.24	523.70	50.60
J-46	473.40	0.11	523.75	50.25
J-62	472.73	0.57	522.97	50.14
J-51	473.65	0.11	523.74	49.99
J-52	473.74	0.11	523.75	49.90
J-25	474.54	0.54	523.39	48.76
J-60	474.58	0.57	523.05	48.38
J-24	474.96	0.54	523.42	48.36
J-32	475.87	0.24	523.71	47.75
J-28	476.31	0.00	523.79	47.38
J-47	476.35	0.11	523.75	47.30
J-22	476.21	0.54	523.54	47.23
J-45	477.59	0.11	523.76	46.08
J-19	477.69	0.00	523.76	45.98
J-11	467.13	0.17	513.12	45.89
J-42	478.13	0.24	523.71	45.49
J-20	478.73	0.54	523.68	44.86
J-12	468.42	0.17	513.12	44.61
J-40	479.03	0.24	523.71	44.59
J-41	479.10	0.24	523.71	44.51
J-29	479.36	0.00	523.84	44.39
J-26	478.93	0.54	523.37	44.36
J-55	479.76	0.57	523.05	43.20
J-27	480.27	0.54	523.36	43.00
J-21	480.65	0.54	523.61	42.88
J-58	480.97	0.57	522.93	41.88
J-59	481.46	0.57	522.93	41.38
J-54	482.33	0.11	523.75	41.33
J-56	481.73	0.57	522.97	41.16
J-36	483.29	0.24	523.68	40.31
J-14	474.47	0.17	513.14	38.59
J-39	485.32	0.24	523.67	38.27
J-15	475.44	0.17	513.14	37.62
J-16	475.45	0.17	513.14	37.61
J-17	475.85	0.17	513.14	37.21
J-5	477.00	0.17	513.12	36.04
J-57	486.96	0.57	522.95	35.92
J-38	487.97	0.24	523.67	35.63
J-2	479.30	0.17	513.12	33.75
J-6	480.42	0.17	513.12	32.63
J-18	480.91	0.00	513.16	32.18
J-13	481.46	0.17	513.15	31.63
J-10	481.66	0.17	513.14	31.41
J-4	482.41	0.17	513.12	30.65
J-3	482.78	0.17	513.12	30.28

FlexTable: Junction Table

Current Time: 2.00 hours

Label	Elevation (m)	Demand (L/s)	Hydraulic Grade (m)	Pressure (m H2O)
J-8	483.54	0.17	513.15	29.55
J-37	494.12	0.24	523.68	29.50
J-9	486.85	0.17	513.13	26.23

FlexTable: Pipe Table

Current Time: 2.00 hours

Label	Start Node	Stop Node	Diameter (mm)	Material	Flow (L/s)	Velocity (m/s)	Pressure Loss (kPa)
P-2	R-1	PMP-1	1,000.0	Steel	51.97	0.07	0.0
P-3	R-2	PMP-2	1,000.0	Steel	(N/A)	(N/A)	(N/A)
P-19(2)	J-28	J-19	235.4	PVC	11.73	0.27	0.2
P-19(1)(2)	J-29	J-28	235.4	PVC	11.73	0.27	0.5
P-5	T-1	PMP-3	180.8	PVC	2.51	0.10	0.0
P-18	T-1	PMP-4	180.8	PVC	5.87	0.23	0.0
P-19(1)(1)	PMP-4	J-29	180.8	PVC	5.87	0.23	0.0
P-28	T-1	PMP-6	180.8	PVC	5.87	0.23	0.0
P-29	PMP-6	J-29	180.8	PVC	5.87	0.23	0.0
P-32	J-19	J-32	180.8	PVC	2.38	0.09	0.5
P-42	J-19	J-45	180.8	PVC	1.06	0.04	0.0
P-6(1)(1)	PMP-3	J-18	180.8	PVC	2.51	0.10	0.0
P-6(1)(2)	J-18	J-8	180.8	PVC	2.51	0.10	0.1
P-1	PMP-1	T-1	128.9	Steel	51.97	3.98	67.4
P-7	J-2	J-3	126.6	PVC	0.67	0.05	0.0
P-8	J-3	J-4	126.6	PVC	0.50	0.04	0.0
P-9	J-4	J-5	126.6	PVC	0.34	0.03	0.0
P-10	J-5	J-6	126.6	PVC	0.17	0.01	0.0
P-6(2)(2)	J-9	J-2	126.6	PVC	1.17	0.09	0.1
P-6(2)(1)(1)	J-8	J-10	126.6	PVC	1.51	0.12	0.1
P-6(2)(1)(2)	J-10	J-9	126.6	PVC	1.34	0.11	0.1
P-11	J-2	J-11	126.6	PVC	0.34	0.03	0.0
P-12	J-11	J-12	126.6	PVC	0.17	0.01	0.0
P-13	J-8	J-13	126.6	PVC	0.84	0.07	0.1
P-14	J-13	J-14	126.6	PVC	0.67	0.05	0.0
P-15	J-14	J-15	126.6	PVC	0.50	0.04	0.0
P-16	J-15	J-16	126.6	PVC	0.34	0.03	0.0
P-20	J-19	J-20	126.6	PVC	4.31	0.34	0.9
P-21	J-20	J-21	126.6	PVC	3.77	0.30	0.7
P-22	J-21	J-22	126.6	PVC	3.23	0.26	0.7
P-23	J-22	J-23	126.6	PVC	2.69	0.21	0.8
P-24	J-23	J-24	126.6	PVC	2.15	0.17	0.4
P-25	J-24	J-25	126.6	PVC	1.61	0.13	0.3
P-26	J-25	J-26	126.6	PVC	1.08	0.09	0.2
P-33	J-32	J-34	126.6	PVC	1.43	0.11	0.1
P-34	J-34	J-35	126.6	PVC	1.19	0.09	0.1
P-35	J-35	J-36	126.6	PVC	0.95	0.08	0.1
P-36	J-36	J-37	126.6	PVC	0.71	0.06	0.0
P-37	J-37	J-38	126.6	PVC	0.48	0.04	0.0
P-38	J-38	J-39	126.6	PVC	0.24	0.02	0.0
P-39	J-32	J-40	126.6	PVC	0.71	0.06	0.0
P-40	J-40	J-41	126.6	PVC	0.48	0.04	0.0
P-41	J-41	J-42	126.6	PVC	0.24	0.02	0.0
P-43	J-45	J-46	126.6	PVC	0.95	0.08	0.1
P-44	J-46	J-47	126.6	PVC	0.63	0.05	0.0
P-45	J-47	J-48	126.6	PVC	0.42	0.03	0.0

FlexTable: Pipe Table
Current Time: 2.00 hours

Label	Start Node	Stop Node	Diameter (mm)	Material	Flow (L/s)	Velocity (m/s)	Pressure Loss (kPa)
P-46	J-48	J-49	126.6	PVC	0.32	0.03	0.0
P-47	J-49	J-50	126.6	PVC	0.11	0.01	0.0
P-48	J-49	J-51	126.6	PVC	0.11	0.01	0.0
P-49	J-47	J-52	126.6	PVC	0.11	0.01	0.0
P-50	J-46	J-53	126.6	PVC	0.21	0.02	0.0
P-51	J-53	J-54	126.6	PVC	0.11	0.01	0.0
P-52	J-19	J-55	126.6	PVC	3.99	0.32	7.0
P-53	J-55	J-56	126.6	PVC	2.85	0.23	0.8
P-54	J-56	J-57	126.6	PVC	1.71	0.14	0.2
P-55	J-57	J-58	126.6	PVC	1.14	0.09	0.1
P-56	J-58	J-59	126.6	PVC	0.57	0.05	0.0
P-57	J-55	J-60	126.6	PVC	0.57	0.05	0.0
P-58	J-56	J-62	126.6	PVC	0.57	0.05	0.0
P-17	J-16	J-17	99.4	PVC	0.17	0.02	0.0
P-27	J-26	J-27	99.4	PVC	0.54	0.07	0.2

Anexo N°6.3
Verificación Hidráulica Red de
Distribución
Condición de Incendio

AÑO 1

FlexTable: Junction Table

Current Time: 0.00 hours

Label	Elevation (m)	Demand (L/s)	Hydraulic Grade (m)	Pressure (m H2O)
J-50	461.69	0.02	522.38	60.56
J-23	470.25	0.31	522.27	51.91
J-49	470.51	0.02	522.38	51.76
J-53	470.59	0.02	522.38	51.68
J-48	471.00	0.02	522.38	51.27
J-35	472.76	0.10	522.36	49.50
J-62	472.73	0.16	522.30	49.47
J-34	473.00	0.10	522.36	49.26
J-46	473.40	0.02	522.38	48.88
J-51	473.65	0.02	522.38	48.62
J-52	473.74	0.02	522.38	48.53
J-60	474.58	0.16	522.31	47.63
J-25	474.54	0.31	522.24	47.61
J-24	474.96	0.31	522.25	47.20
J-32	475.87	0.10	522.37	46.41
J-22	476.21	0.31	522.30	45.99
J-28	476.31	0.00	522.38	45.97
J-47	476.35	0.02	522.38	45.93
J-45	477.59	0.02	522.38	44.70
J-19	477.69	0.00	522.38	44.60
J-42	478.13	0.10	522.36	44.15
J-20	478.73	0.31	522.35	43.53
J-40	479.03	0.10	522.36	43.25
J-26	478.93	0.31	522.24	43.22
J-41	479.10	0.10	522.36	43.17
J-29	479.36	0.00	522.39	42.94
J-55	479.76	0.16	522.31	42.46
J-27	480.27	0.31	522.23	41.88
J-21	480.65	0.31	522.32	41.59
J-58	480.97	0.16	522.29	41.24
J-59	481.46	0.16	522.29	40.75
J-56	481.73	0.16	522.30	40.49
J-54	482.33	0.02	522.38	39.96
J-36	483.29	0.10	522.36	38.99
J-39	485.32	0.10	522.36	36.96
J-57	486.96	0.16	522.30	35.27
J-11	467.13	0.07	502.15	34.95
J-38	487.97	0.10	522.36	34.32
J-12	468.42	0.07	502.15	33.66
J-14	474.47	0.07	505.14	30.60
J-15	475.44	0.07	505.14	29.63
J-16	475.45	0.07	505.14	29.63
J-17	475.85	0.07	505.14	29.23
J-37	494.12	0.10	522.36	28.18
J-18	480.91	0.00	505.35	24.39
J-13	481.46	0.07	505.14	23.63
J-2	479.30	0.07	502.15	22.80
J-10	481.66	0.07	503.89	22.18
J-5	477.00	0.07	498.81	21.76
J-8	483.54	0.07	505.14	21.56
J-3	482.78	0.07	501.13	18.31

FlexTable: Junction Table

Current Time: 0.00 hours

Label	Elevation (m)	Demand (L/s)	Hydraulic Grade (m)	Pressure (m H ₂ O)
J-4	482.41	0.07	499.77	17.33
J-6	480.42	16.07	497.38	16.92
J-9	486.85	0.07	503.06	16.18

FlexTable: Pipe Table

Current Time: 0.00 hours

Label	Start Node	Stop Node	Diameter (mm)	Material	Flow (L/s)	Velocity (m/s)	Pressure Loss (kPa)
P-2	R-1	PMP-1	1,000.0	Steel	17.78	0.02	0.0
P-3	R-2	PMP-2	1,000.0	Steel	(N/A)	(N/A)	(N/A)
P-19(2)	J-28	J-19	235.4	PVC	4.84	0.11	0.0
P-19(1)(2)	J-29	J-28	235.4	PVC	4.84	0.11	0.1
P-5	T-1	PMP-3	180.8	PVC	17.04	0.66	0.0
P-18	T-1	PMP-4	180.8	PVC	2.42	0.09	0.0
P-19(1)(1)	PMP-4	J-29	180.8	PVC	2.42	0.09	0.0
P-28	T-1	PMP-6	180.8	PVC	2.42	0.09	0.0
P-29	PMP-6	J-29	180.8	PVC	2.42	0.09	0.0
P-32	J-19	J-32	180.8	PVC	1.04	0.04	0.1
P-42	J-19	J-45	180.8	PVC	0.21	0.01	0.0
P-6(1)(1)	PMP-3	J-18	180.8	PVC	17.04	0.66	0.1
P-6(1)(2)	J-18	J-8	180.8	PVC	17.04	0.66	2.1
P-1	PMP-1	T-1	128.9	Steel	17.78	1.36	9.2
P-7	J-2	J-3	126.6	PVC	16.28	1.29	10.0
P-8	J-3	J-4	126.6	PVC	16.21	1.29	13.3
P-9	J-4	J-5	126.6	PVC	16.14	1.28	9.5
P-10	J-5	J-6	126.6	PVC	16.07	1.28	14.0
P-6(2)(2)	J-9	J-2	126.6	PVC	16.48	1.31	8.9
P-6(2)(1)(1)	J-8	J-10	126.6	PVC	16.62	1.32	12.2
P-6(2)(1)(2)	J-10	J-9	126.6	PVC	16.55	1.31	8.1
P-11	J-2	J-11	126.6	PVC	0.14	0.01	0.0
P-12	J-11	J-12	126.6	PVC	0.07	0.01	0.0
P-13	J-8	J-13	126.6	PVC	0.35	0.03	0.0
P-14	J-13	J-14	126.6	PVC	0.28	0.02	0.0
P-15	J-14	J-15	126.6	PVC	0.21	0.02	0.0
P-16	J-15	J-16	126.6	PVC	0.14	0.01	0.0
P-20	J-19	J-20	126.6	PVC	2.45	0.19	0.3
P-21	J-20	J-21	126.6	PVC	2.15	0.17	0.2
P-22	J-21	J-22	126.6	PVC	1.84	0.15	0.2
P-23	J-22	J-23	126.6	PVC	1.53	0.12	0.3
P-24	J-23	J-24	126.6	PVC	1.23	0.10	0.1
P-25	J-24	J-25	126.6	PVC	0.92	0.07	0.1
P-26	J-25	J-26	126.6	PVC	0.61	0.05	0.1
P-33	J-32	J-34	126.6	PVC	0.62	0.05	0.0
P-34	J-34	J-35	126.6	PVC	0.52	0.04	0.0
P-35	J-35	J-36	126.6	PVC	0.41	0.03	0.0
P-36	J-36	J-37	126.6	PVC	0.31	0.02	0.0
P-37	J-37	J-38	126.6	PVC	0.21	0.02	0.0
P-38	J-38	J-39	126.6	PVC	0.10	0.01	0.0
P-39	J-32	J-40	126.6	PVC	0.31	0.02	0.0
P-40	J-40	J-41	126.6	PVC	0.21	0.02	0.0
P-41	J-41	J-42	126.6	PVC	0.10	0.01	0.0
P-43	J-45	J-46	126.6	PVC	0.19	0.01	0.0
P-44	J-46	J-47	126.6	PVC	0.12	0.01	0.0
P-45	J-47	J-48	126.6	PVC	0.08	0.01	0.0

FlexTable: Pipe Table

Current Time: 0.00 hours

Label	Start Node	Stop Node	Diameter (mm)	Material	Flow (L/s)	Velocity (m/s)	Pressure Loss (kPa)
P-46	J-48	J-49	126.6	PVC	0.06	0.00	0.0
P-47	J-49	J-50	126.6	PVC	0.02	0.00	0.0
P-48	J-49	J-51	126.6	PVC	0.02	0.00	0.0
P-49	J-47	J-52	126.6	PVC	0.02	0.00	0.0
P-50	J-46	J-53	126.6	PVC	0.04	0.00	0.0
P-51	J-53	J-54	126.6	PVC	0.02	0.00	0.0
P-52	J-19	J-55	126.6	PVC	1.14	0.09	0.7
P-53	J-55	J-56	126.6	PVC	0.82	0.06	0.1
P-54	J-56	J-57	126.6	PVC	0.49	0.04	0.0
P-55	J-57	J-58	126.6	PVC	0.33	0.03	0.0
P-56	J-58	J-59	126.6	PVC	0.16	0.01	0.0
P-57	J-55	J-60	126.6	PVC	0.16	0.01	0.0
P-58	J-56	J-62	126.6	PVC	0.16	0.01	0.0
P-17	J-16	J-17	99.4	PVC	0.07	0.01	0.0
P-27	J-26	J-27	99.4	PVC	0.31	0.04	0.1

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FlexTable: Junction Table

Label	Elevation (m)	Demand (L/s)	Hydraulic Grade (m)	Pressure (m H2O)
J-50	461.69	0.07	521.62	59.80
J-49	470.51	0.07	521.62	51.01
J-53	470.59	0.07	521.62	50.92
J-48	471.00	0.07	521.62	50.52
J-23	470.25	1.60	519.32	48.97
J-35	472.76	0.30	521.51	48.65
J-34	473.00	0.30	521.53	48.43
J-46	473.40	0.07	521.62	48.12
J-51	473.65	0.07	521.62	47.87
J-52	473.74	0.07	521.62	47.78
J-62	472.73	0.83	520.04	47.21
J-32	475.87	0.30	521.55	45.59
J-60	474.58	0.83	520.20	45.54
J-28	476.31	0.00	521.70	45.30
J-47	476.35	0.07	521.62	45.18
J-25	474.54	1.60	518.82	44.19
J-24	474.96	1.60	519.02	43.97
J-45	477.59	0.07	521.62	43.95
J-19	477.69	0.00	521.63	43.85
J-22	476.21	1.60	519.93	43.63
J-42	478.13	0.30	521.54	43.33
J-29	479.36	0.00	521.89	42.44
J-40	479.03	0.30	521.54	42.43
J-41	479.10	0.30	521.54	42.35
J-20	478.73	1.60	520.97	42.16
J-55	479.76	0.83	520.21	40.36
J-21	480.65	1.60	520.47	39.74
J-26	478.93	1.60	518.69	39.69
J-54	482.33	0.07	521.62	39.21
J-58	480.97	0.83	519.97	38.92
J-59	481.46	0.83	519.97	38.43
J-56	481.73	0.83	520.05	38.24
J-27	480.27	1.60	518.55	38.20
J-36	483.29	0.30	521.50	38.13
J-39	485.32	0.30	521.49	36.09
J-38	487.97	0.30	521.49	33.45
J-57	486.96	0.83	520.00	32.97
J-11	467.13	0.20	500.15	32.95
J-12	468.42	0.20	500.15	31.66
J-14	474.47	0.20	503.49	28.96
J-15	475.44	0.20	503.49	27.99
J-16	475.45	0.20	503.49	27.98
J-17	475.85	0.20	503.49	27.58
J-37	494.12	0.30	521.49	27.32
J-18	480.91	0.00	503.77	22.81
J-13	481.46	0.20	503.50	22.00
J-2	479.30	0.20	500.15	20.80
J-10	481.66	0.20	502.08	20.38
J-8	483.54	0.20	503.50	19.93
J-5	477.00	0.20	496.65	19.61
J-3	482.78	0.20	499.06	16.25
J-4	482.41	0.20	497.64	15.21

FlexTable: Junction Table

Label	Elevation (m)	Demand (L/s)	Hydraulic Grade (m)	Pressure (m H2O)
J-6	480.42	16.20	495.20	14.75
J-9	486.85	0.20	501.15	14.28

FlexTable: Pipe Table

Label	Start Node	Stop Node	Diameter (mm)	Material	Flow (L/s)	Velocity (m/s)	Pressure Loss (kPa)
P-2	R-1	PMP-1	1,000.0	Steel	52.50	0.07	0.0
P-3	R-2	PMP-2	1,000.0	Steel	(N/A)	(N/A)	(N/A)
P-19(2)	J-28	J-19	235.4	PVC	22.33	0.51	0.7
P-19(1)(2)	J-29	J-28	235.4	PVC	22.33	0.51	1.8
P-5	T-1	PMP-3	180.8	PVC	19.02	0.74	0.1
P-18	T-1	PMP-4	180.8	PVC	11.17	0.43	0.0
P-19(1)(1)	PMP-4	J-29	180.8	PVC	11.17	0.43	0.0
P-28	T-1	PMP-6	180.8	PVC	11.17	0.43	0.0
P-29	PMP-6	J-29	180.8	PVC	11.17	0.43	0.0
P-32	J-19	J-32	180.8	PVC	3.02	0.12	0.7
P-42	J-19	J-45	180.8	PVC	0.70	0.03	0.0
P-6(1)(1)	PMP-3	J-18	180.8	PVC	19.02	0.74	0.1
P-6(1)(2)	J-18	J-8	180.8	PVC	19.02	0.74	2.6
P-1	PMP-1	T-1	128.9	Steel	52.50	4.02	68.7
P-7	J-2	J-3	126.6	PVC	16.81	1.34	10.6
P-8	J-3	J-4	126.6	PVC	16.60	1.32	13.9
P-9	J-4	J-5	126.6	PVC	16.40	1.30	9.7
P-10	J-5	J-6	126.6	PVC	16.20	1.29	14.2
P-6(2)(2)	J-9	J-2	126.6	PVC	17.41	1.38	9.8
P-6(2)(1)(1)	J-8	J-10	126.6	PVC	17.81	1.42	13.9
P-6(2)(1)(2)	J-10	J-9	126.6	PVC	17.61	1.40	9.1
P-11	J-2	J-11	126.6	PVC	0.40	0.03	0.0
P-12	J-11	J-12	126.6	PVC	0.20	0.02	0.0
P-13	J-8	J-13	126.6	PVC	1.01	0.08	0.1
P-14	J-13	J-14	126.6	PVC	0.81	0.06	0.1
P-15	J-14	J-15	126.6	PVC	0.60	0.05	0.0
P-16	J-15	J-16	126.6	PVC	0.40	0.03	0.0
P-20	J-19	J-20	126.6	PVC	12.82	1.02	6.4
P-21	J-20	J-21	126.6	PVC	11.22	0.89	4.9
P-22	J-21	J-22	126.6	PVC	9.62	0.76	5.3
P-23	J-22	J-23	126.6	PVC	8.01	0.64	6.0
P-24	J-23	J-24	126.6	PVC	6.41	0.51	2.9
P-25	J-24	J-25	126.6	PVC	4.81	0.38	2.0
P-26	J-25	J-26	126.6	PVC	3.21	0.25	1.2
P-33	J-32	J-34	126.6	PVC	1.81	0.14	0.2
P-34	J-34	J-35	126.6	PVC	1.51	0.12	0.2
P-35	J-35	J-36	126.6	PVC	1.21	0.10	0.1
P-36	J-36	J-37	126.6	PVC	0.91	0.07	0.1
P-37	J-37	J-38	126.6	PVC	0.60	0.05	0.0
P-38	J-38	J-39	126.6	PVC	0.30	0.02	0.0
P-39	J-32	J-40	126.6	PVC	0.91	0.07	0.0
P-40	J-40	J-41	126.6	PVC	0.60	0.05	0.0
P-41	J-41	J-42	126.6	PVC	0.30	0.02	0.0
P-43	J-45	J-46	126.6	PVC	0.63	0.05	0.0
P-44	J-46	J-47	126.6	PVC	0.42	0.03	0.0
P-45	J-47	J-48	126.6	PVC	0.28	0.02	0.0
P-46	J-48	J-49	126.6	PVC	0.21	0.02	0.0
P-47	J-49	J-50	126.6	PVC	0.07	0.01	0.0

FlexTable: Pipe Table

Label	Start Node	Stop Node	Diameter (mm)	Material	Flow (L/s)	Velocity (m/s)	Pressure Loss (kPa)
P-48	J-49	J-51	126.6	PVC	0.07	0.01	0.0
P-49	J-47	J-52	126.6	PVC	0.07	0.01	0.0
P-50	J-46	J-53	126.6	PVC	0.14	0.01	0.0
P-51	J-53	J-54	126.6	PVC	0.07	0.01	0.0
P-52	J-19	J-55	126.6	PVC	5.79	0.46	13.8
P-53	J-55	J-56	126.6	PVC	4.13	0.33	1.6
P-54	J-56	J-57	126.6	PVC	2.48	0.20	0.5
P-55	J-57	J-58	126.6	PVC	1.65	0.13	0.3
P-56	J-58	J-59	126.6	PVC	0.83	0.07	0.0
P-57	J-55	J-60	126.6	PVC	0.83	0.07	0.1
P-58	J-56	J-62	126.6	PVC	0.83	0.07	0.1
P-17	J-16	J-17	99.4	PVC	0.20	0.03	0.0
P-27	J-26	J-27	99.4	PVC	1.60	0.21	1.4

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FlexTable: Junction Table

Label	Elevation (m)	Demand (L/s)	Hydraulic Grade (m)	Pressure (m H2O)
J-50	461.69	0.40	520.62	58.80
J-49	470.51	0.40	520.62	50.01
J-53	470.59	0.40	520.69	49.99
J-48	471.00	0.40	520.63	49.53
J-46	473.40	0.40	520.69	47.19
J-35	472.76	0.91	519.95	47.09
J-34	473.00	0.91	520.09	47.00
J-51	473.65	0.40	520.62	46.87
J-23	470.25	2.06	517.17	46.82
J-52	473.74	0.40	520.65	46.81
J-62	472.73	0.87	519.09	46.26
J-28	476.31	0.00	521.02	44.62
J-60	474.58	0.87	519.27	44.60
J-32	475.87	0.91	520.25	44.29
J-47	476.35	0.40	520.65	44.21
J-45	477.59	0.40	520.79	43.12
J-19	477.69	0.00	520.84	43.07
J-29	479.36	0.00	521.46	42.01
J-42	478.13	0.91	520.18	41.97
J-22	476.21	2.06	518.14	41.84
J-25	474.54	2.06	516.37	41.75
J-24	474.96	2.06	516.69	41.65
J-40	479.03	0.91	520.21	41.10
J-41	479.10	0.91	520.19	41.00
J-20	478.73	2.06	519.79	40.98
J-55	479.76	0.87	519.28	39.43
J-54	482.33	0.40	520.68	38.27
J-21	480.65	2.06	518.99	38.27
J-58	480.97	0.87	519.01	37.96
J-59	481.46	0.87	519.01	37.47
J-56	481.73	0.87	519.09	37.29
J-26	478.93	2.06	516.17	37.17
J-36	483.29	0.91	519.84	36.48
J-27	480.27	2.06	515.94	35.59
J-39	485.32	0.91	519.76	34.37
J-57	486.96	0.87	519.04	32.02
J-38	487.97	0.91	519.77	31.73
J-11	467.13	0.64	494.86	27.67
J-12	468.42	0.64	494.85	26.38
J-37	494.12	0.91	519.79	25.62
J-14	474.47	0.64	499.48	24.96
J-15	475.44	0.64	499.46	23.97
J-16	475.45	0.64	499.44	23.95
J-17	475.85	0.64	499.44	23.55
J-18	480.91	0.00	500.06	19.11
J-13	481.46	0.64	499.53	18.04
J-8	483.54	0.64	499.60	16.03
J-10	481.66	0.64	497.54	15.85
J-2	479.30	0.64	494.88	15.55
J-5	477.00	0.64	490.84	13.81
J-3	482.78	0.64	493.57	10.78
J-4	482.41	0.64	491.94	9.51

FlexTable: Junction Table

Label	Elevation (m)	Demand (L/s)	Hydraulic Grade (m)	Pressure (m H2O)
J-9	486.85	0.64	496.24	9.37
J-6	480.42	16.64	489.32	8.88

FlexTable: Pipe Table

Label	Start Node	Stop Node	Diameter (mm)	Material	Flow (L/s)	Velocity (m/s)	Pressure Loss (kPa)
P-2	R-1	PMP-1	1,000.0	Steel	52.50	0.07	0.0
P-3	R-2	PMP-2	1,000.0	Steel	(N/A)	(N/A)	(N/A)
P-19(2)	J-28	J-19	235.4	PVC	35.75	0.82	1.8
P-19(1)(2)	J-29	J-28	235.4	PVC	35.75	0.82	4.3
P-5	T-1	PMP-3	180.8	PVC	25.63	1.00	0.1
P-18	T-1	PMP-4	180.8	PVC	17.87	0.70	0.1
P-19(1)(1)	PMP-4	J-29	180.8	PVC	17.87	0.70	0.1
P-28	T-1	PMP-6	180.8	PVC	17.87	0.70	0.1
P-29	PMP-6	J-29	180.8	PVC	17.87	0.70	0.1
P-32	J-19	J-32	180.8	PVC	9.12	0.36	5.8
P-42	J-19	J-45	180.8	PVC	4.04	0.16	0.5
P-6(1)(1)	PMP-3	J-18	180.8	PVC	25.63	1.00	0.2
P-6(1)(2)	J-18	J-8	180.8	PVC	25.63	1.00	4.5
P-1	PMP-1	T-1	128.9	Steel	52.50	4.02	68.7
P-7	J-2	J-3	126.6	PVC	18.57	1.47	12.8
P-8	J-3	J-4	126.6	PVC	17.93	1.42	16.0
P-9	J-4	J-5	126.6	PVC	17.28	1.37	10.7
P-10	J-5	J-6	126.6	PVC	16.64	1.32	14.9
P-6(2)(2)	J-9	J-2	126.6	PVC	20.49	1.63	13.3
P-6(2)(1)(1)	J-8	J-10	126.6	PVC	21.78	1.73	20.2
P-6(2)(1)(2)	J-10	J-9	126.6	PVC	21.13	1.68	12.7
P-11	J-2	J-11	126.6	PVC	1.28	0.10	0.2
P-12	J-11	J-12	126.6	PVC	0.64	0.05	0.1
P-13	J-8	J-13	126.6	PVC	3.21	0.25	0.7
P-14	J-13	J-14	126.6	PVC	2.57	0.20	0.5
P-15	J-14	J-15	126.6	PVC	1.93	0.15	0.2
P-16	J-15	J-16	126.6	PVC	1.28	0.10	0.1
P-20	J-19	J-20	126.6	PVC	16.48	1.31	10.3
P-21	J-20	J-21	126.6	PVC	14.42	1.15	7.8
P-22	J-21	J-22	126.6	PVC	12.36	0.98	8.4
P-23	J-22	J-23	126.6	PVC	10.30	0.82	9.5
P-24	J-23	J-24	126.6	PVC	8.24	0.65	4.7
P-25	J-24	J-25	126.6	PVC	6.18	0.49	3.1
P-26	J-25	J-26	126.6	PVC	4.12	0.33	1.9
P-33	J-32	J-34	126.6	PVC	5.47	0.43	1.5
P-34	J-34	J-35	126.6	PVC	4.56	0.36	1.4
P-35	J-35	J-36	126.6	PVC	3.65	0.29	1.1
P-36	J-36	J-37	126.6	PVC	2.74	0.22	0.5
P-37	J-37	J-38	126.6	PVC	1.82	0.14	0.2
P-38	J-38	J-39	126.6	PVC	0.91	0.07	0.1
P-39	J-32	J-40	126.6	PVC	2.74	0.22	0.4
P-40	J-40	J-41	126.6	PVC	1.82	0.14	0.2
P-41	J-41	J-42	126.6	PVC	0.91	0.07	0.0
P-43	J-45	J-46	126.6	PVC	3.63	0.29	1.0
P-44	J-46	J-47	126.6	PVC	2.42	0.19	0.4
P-45	J-47	J-48	126.6	PVC	1.62	0.13	0.2
P-46	J-48	J-49	126.6	PVC	1.21	0.10	0.1
P-47	J-49	J-50	126.6	PVC	0.40	0.03	0.0

FlexTable: Pipe Table

Label	Start Node	Stop Node	Diameter (mm)	Material	Flow (L/s)	Velocity (m/s)	Pressure Loss (kPa)
P-48	J-49	J-51	126.6	PVC	0.40	0.03	0.0
P-49	J-47	J-52	126.6	PVC	0.40	0.03	0.0
P-50	J-46	J-53	126.6	PVC	0.81	0.06	0.1
P-51	J-53	J-54	126.6	PVC	0.40	0.03	0.0
P-52	J-19	J-55	126.6	PVC	6.11	0.49	15.3
P-53	J-55	J-56	126.6	PVC	4.36	0.35	1.8
P-54	J-56	J-57	126.6	PVC	2.62	0.21	0.5
P-55	J-57	J-58	126.6	PVC	1.75	0.14	0.3
P-56	J-58	J-59	126.6	PVC	0.87	0.07	0.0
P-57	J-55	J-60	126.6	PVC	0.87	0.07	0.1
P-58	J-56	J-62	126.6	PVC	0.87	0.07	0.1
P-17	J-16	J-17	99.4	PVC	0.64	0.08	0.0
P-27	J-26	J-27	99.4	PVC	2.06	0.27	2.3

Anexo N°7

Verificación Hidráulica Red de Recolección

Año 0

Verificaciones

Label	Length (3D) (m)	Invert (Start) (m)	Invert (Stop) (m)	Slope (Calculated) (1/1000)	Diameter (mm)	Flow (L/s)	Velocity (m/s)	Hesc [mm]	Flow / Capacity (Design) (l/s)	H/D	Minima autolavado [m/s]	Chequeo Capacidad	Autolavado	H/D
CO-1	4.6	501.14	501.04	21.74	188.2	3.73	1.11	33.66	44.75	0.18	0.41	OK	OK	OK
CO-2	96.3	505.8	505.5	3.12	169.4	3.81	0.56	57.63	12.80	0.34	0.45	OK	OK	OK
CO-3	100.3	505.5	505.19	3.09	169.4	3.89	0.56	58.38	12.75	0.34	0.45	OK	OK	OK
CO-4	122.3	505.19	504.82	3.03	169.4	3.97	0.56	59.35	12.61	0.35	0.45	OK	OK	OK
CO-5	48.5	504.82	504.67	3.09	169.4	4.05	0.57	59.62	12.75	0.35	0.45	OK	OK	OK
CO-7	358	500.65	499.19	4.08	169.4	4.97	0.67	61.82	14.64	0.36	0.46	OK	OK	OK
CO-8	304.5	499.19	495.92	10.74	169.4	4.97	0.95	48.00	23.76	0.28	0.44	OK	OK	OK
CO-9	302.2	495.92	492.85	10.16	169.4	7.61	1.05	60.79	23.11	0.36	0.46	OK	OK	OK
CO-10	653.2	492.85	489.85	4.59	169.4	7.61	0.78	75.54	15.54	0.45	0.48	OK	OK	OK
CO-21	178.8	504.67	503.17	8.39	169.4	4.10	0.82	46.31	21.00	0.27	0.44	OK	OK	OK
CO-22	301.4	503.17	500.65	8.36	169.4	4.97	0.87	51.19	20.96	0.30	0.44	OK	OK	OK
CO-25	18.4	503.33	503.17	8.70	169.4	4.29	0.84	46.97	21.38	0.28	0.44	OK	OK	OK
CO-49	241.7	506.25	504.72	6.33	169.4	4.49	0.76	52.17	18.24	0.31	0.44	OK	OK	OK
CO-51	159.4	504.72	501.95	17.38	169.4	4.49	1.09	40.33	30.22	0.24	0.43	OK	OK	OK
CO-53	199.8	501.95	498.95	15.02	169.4	4.49	1.04	41.84	28.09	0.25	0.43	OK	OK	OK
CO-55	97.4	498.95	498.45	5.13	169.4	4.49	0.71	55.09	16.43	0.33	0.45	OK	OK	OK
CO-57	109.1	498.45	497.85	5.50	188.2	4.49	0.72	52.01	22.51	0.28	0.44	OK	OK	OK
CO-58	109	497.85	495.92	17.71	169.4	4.49	1.10	40.14	30.51	0.24	0.43	OK	OK	OK
CO-59	170.7	507.95	506.25	9.96	169.4	3.80	0.85	42.69	22.88	0.25	0.43	OK	OK	OK

Año 5

Verificaciones

Label	Length (3D) (m)	Invert (Start) (m)	Invert (Stop) (m)	Slope (Calculated) (1/1000)	Diameter (mm)	Flow (L/s)	Velocity (m/s)	Hesc [mm]	Flow / Capacity (Design) (l/s)	H/D	Minima autolavado [m/s]	Chequeo Capacidad	Autolavado	H/D
CO-1	4.6	501.14	501.04	21.74	188.2	4.36	1.16	36.35	44.75	0.19	0.42	OK	OK	OK
CO-2	96.3	505.8	505.5	3.12	235.4	4.60	0.58	56.23	30.77	0.24	0.43	OK	OK	OK
CO-3	100.3	505.5	505.19	3.09	235.4	4.84	0.58	57.79	30.65	0.25	0.43	OK	OK	OK
CO-4	122.3	505.19	504.82	3.03	235.4	5.07	0.59	59.52	30.32	0.25	0.43	OK	OK	OK
CO-5	48.5	504.82	504.67	3.09	235.4	5.81	0.61	63.38	30.66	0.27	0.43	OK	OK	OK
CO-7	358	500.65	499.19	4.08	235.4	16.99	0.91	104.12	35.21	0.44	0.48	OK	OK	OK
CO-8	304.5	499.19	495.92	10.74	235.4	16.99	1.30	80.04	57.13	0.34	0.45	OK	OK	OK
CO-9	302.2	495.92	492.85	10.16	334.2	26.72	1.41	89.85	141.47	0.27	0.43	OK	OK	OK
CO-10	653.2	492.85	489.85	4.59	376.6	26.72	1.05	105.38	130.80	0.28	0.44	OK	OK	OK
CO-21	178.8	504.67	503.17	8.39	235.4	5.77	0.87	49.20	50.49	0.21	0.42	OK	OK	OK
CO-22	301.4	503.17	500.65	8.36	235.4	16.99	1.19	85.54	50.41	0.36	0.46	OK	OK	OK
CO-25	18.4	503.33	503.17	8.70	180.8	12.30	1.12	80.06	25.43	0.44	0.48	OK	OK	OK
CO-49	241.7	506.25	504.72	6.33	180.8	10.82	0.96	81.48	21.70	0.45	0.48	OK	OK	OK
CO-51	159.4	504.72	501.95	17.38	180.8	10.82	1.39	61.88	35.95	0.34	0.45	OK	OK	OK
CO-53	199.8	501.95	498.95	15.02	180.8	10.82	1.32	64.32	33.42	0.36	0.46	OK	OK	OK
CO-55	97.4	498.95	498.45	5.13	180.8	10.82	0.89	86.51	19.54	0.48	0.49	OK	OK	OK
CO-57	109.1	498.45	497.85	5.50	180.8	10.82	0.92	84.81	20.23	0.47	0.48	OK	OK	OK
CO-58	109	497.85	495.92	17.71	180.8	10.82	1.40	61.57	36.29	0.34	0.45	OK	OK	OK
CO-59	170.7	507.95	506.25	9.96	180.8	5.72	0.95	51.33	27.22	0.28	0.44	OK	OK	OK

Año 15

Verificaciones

Label	Length (3D) (m)	Invert (Start) (m)	Invert (Stop) (m)	Slope (Calculated) (1/1000)	Diameter (mm)	Flow (L/s)	Velocity (m/s)	Hesc [mm]	Flow / Capacity (Design) (l/s)	H/D	Minima autolavado [m/s]	Chequeo Capacidad	Autolavado	H/D
CO-1	4.6	501.14	501.04	21.74	188.2	7.85	1.37	48.73	44.75	0.26	0.43	OK	OK	OK
CO-2	96.3	505.8	505.5	3.12	235.4	10.39	0.73	85.65	30.77	0.36	0.46	OK	OK	OK
CO-3	100.3	505.5	505.19	3.09	235.4	12.26	0.76	93.83	30.65	0.40	0.47	OK	OK	OK
CO-4	122.3	505.19	504.82	3.03	235.4	14.08	0.78	101.89	30.32	0.43	0.47	OK	OK	OK
CO-5	48.5	504.82	504.67	3.09	235.4	15.86	0.81	108.32	30.66	0.46	0.48	OK	OK	OK
CO-7	358	500.65	499.19	4.08	235.4	27.96	1.03	140.30	35.21	0.60	0.51	OK	OK	OK
CO-8	304.5	499.19	495.92	10.74	235.4	27.96	1.49	104.96	57.13	0.45	0.48	OK	OK	OK
CO-9	302.2	495.92	492.85	10.16	334.2	48.07	1.66	121.98	141.47	0.36	0.46	OK	OK	OK
CO-10	653.2	492.85	489.85	4.59	376.6	48.07	1.23	143.37	130.80	0.38	0.46	OK	OK	OK
CO-21	178.8	504.67	503.17	8.39	235.4	15.73	1.17	82.03	50.49	0.35	0.45	OK	OK	OK
CO-22	301.4	503.17	500.65	8.36	235.4	27.96	1.36	112.74	50.41	0.48	0.49	OK	OK	OK
CO-25	18.4	503.33	503.17	8.70	180.8	14.67	1.17	88.59	25.43	0.49	0.49	OK	OK	OK
CO-49	241.7	506.25	504.72	6.33	180.8	19.50	1.11	117.09	21.70	0.65	0.53	OK	OK	OK
CO-51	159.4	504.72	501.95	17.38	180.8	19.50	1.63	85.47	35.95	0.47	0.48	OK	OK	OK
CO-53	199.8	501.95	498.95	15.02	180.8	19.50	1.55	89.18	33.42	0.49	0.49	OK	OK	OK
CO-55	97.4	498.95	498.45	5.13	180.8	19.50	1.02	126.36	19.54	0.70	0.54	OK	OK	OK
CO-57	109.1	498.45	497.85	5.50	180.8	19.50	1.05	123.14	20.23	0.68	0.53	OK	OK	OK
CO-58	109	497.85	495.92	17.71	180.8	19.50	1.64	85.01	36.29	0.47	0.48	OK	OK	OK
CO-59	170.7	507.95	506.25	9.96	180.8	5.72	0.95	51.33	27.22	0.28	0.44	OK	OK	OK