

PROYECTO:  
**CONSERVACIÓN DE INFRAESTRUCTURA VIAL DEL MUNICIPIO DE PACHALUM, QUICHÉ.**

FECHA: SEPTIEMBRE 2017

ESCALA: SIN ESCALA

CONTIENE: PLANO DE UBICACIÓN Y LOCALIZACIÓN

(F.) Vto. Bto. Aprobado

HOJA No. 1 / 24

DISEÑO: ARQUITECTURA E INGENIERIA.  
 DIBUJO: ARQUITECTURA E INGENIERIA.

SIMBOLOGÍA	
0+000 CAMINAMIENTO	SUELO NATURAL
E0 ESTACION	100.00
2% PENDIENTE	90.00
SUELO NATURAL	RAZANTE
RASANTE	
TRANSVERSAL	
TC TUBO CONCRETO	0+000
PAVIMENTO EXISTENTE	CAMINAMIENTO

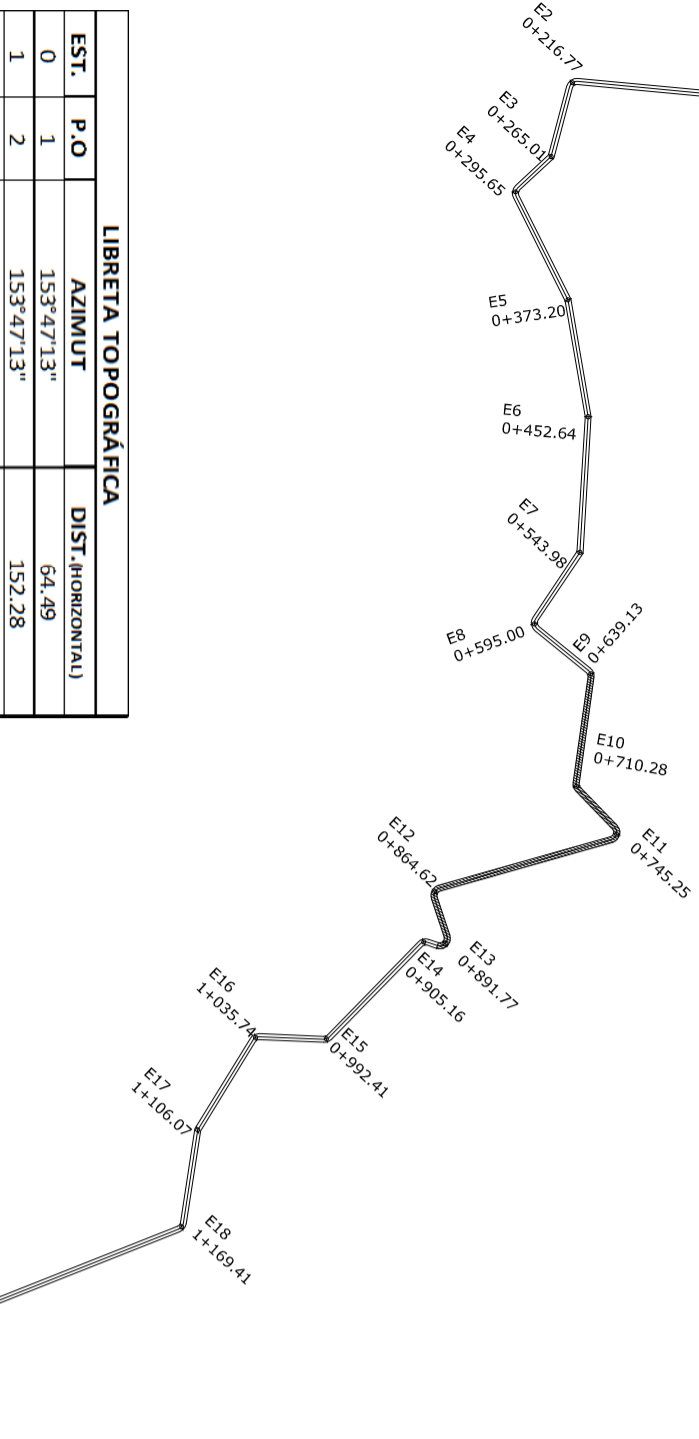


# PLANTA GENERAL DE E0 A E32

TRAMO 1

ESC: 1:5,000

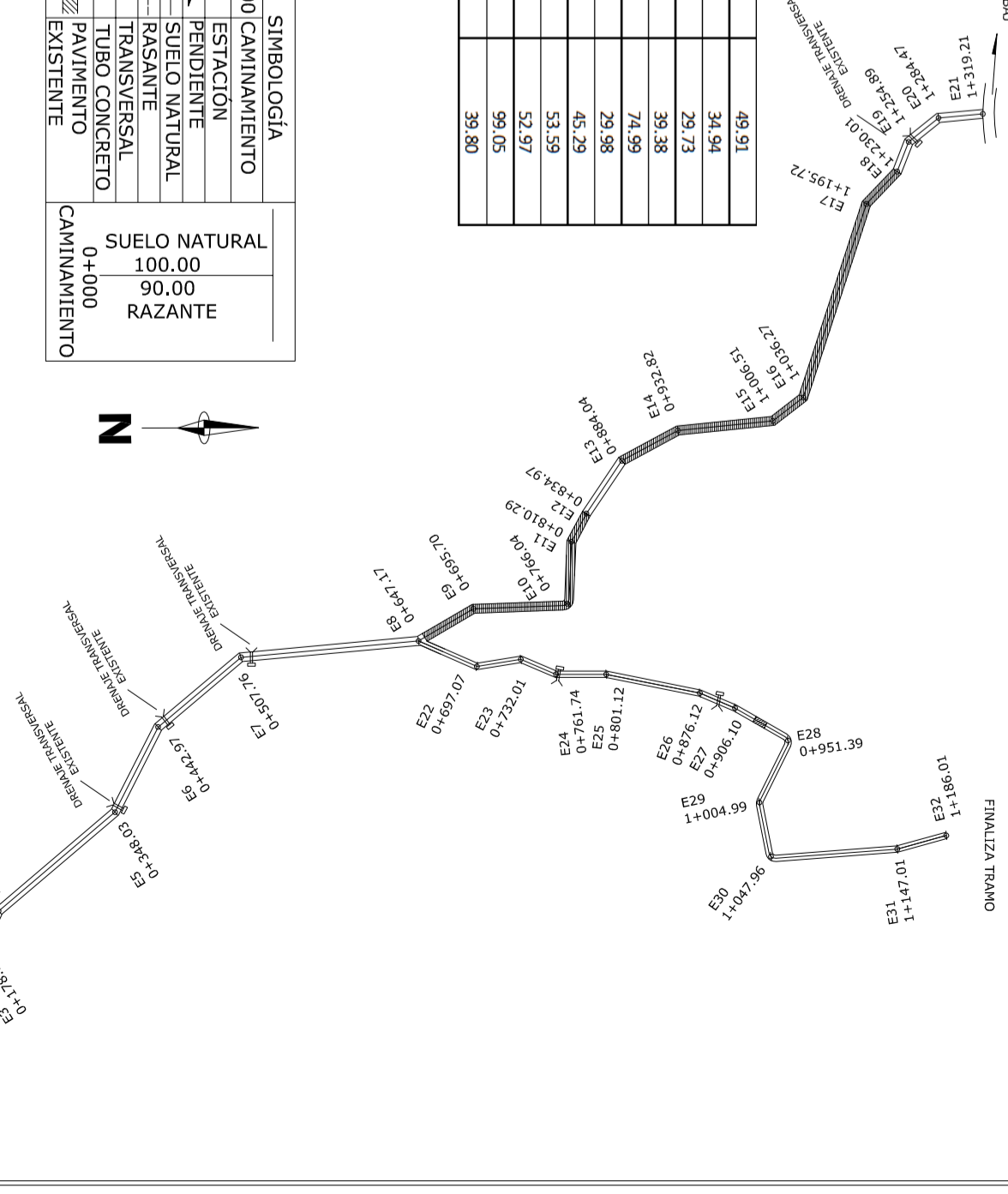
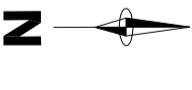
HACIA CARRETERA QUE CONDUCE A JOYABAU



EST.	P.O	AZIMUT	DIST.HORIZONTAL
0	1	324°36'59"	74.03
1	2	308°6'21"	69.42
2	3	329°39'20"	54.67
3	4	294°23'38"	29.93
4	5	319°37'49"	119.96
5	6	296°52'9"	74.94
6	7	319°57'0"	84.79
7	8	354°43'49"	139.41
8	9	329°37'55"	48.53
9	10	356°56'37"	70.34
10	11	273°51'43"	44.25
11	12	297°54'15"	24.68
12	13	303°56'43"	49.08
13	14	331°39'31"	48.78
14	15	354°13'57"	73.69
15	16	322°17'1"	29.76
16	17	288°04'06"	159.45
17	18	291°22'50"	34.29
18	19	321°19'30"	29.58
19	20	354°45'0"	34.73

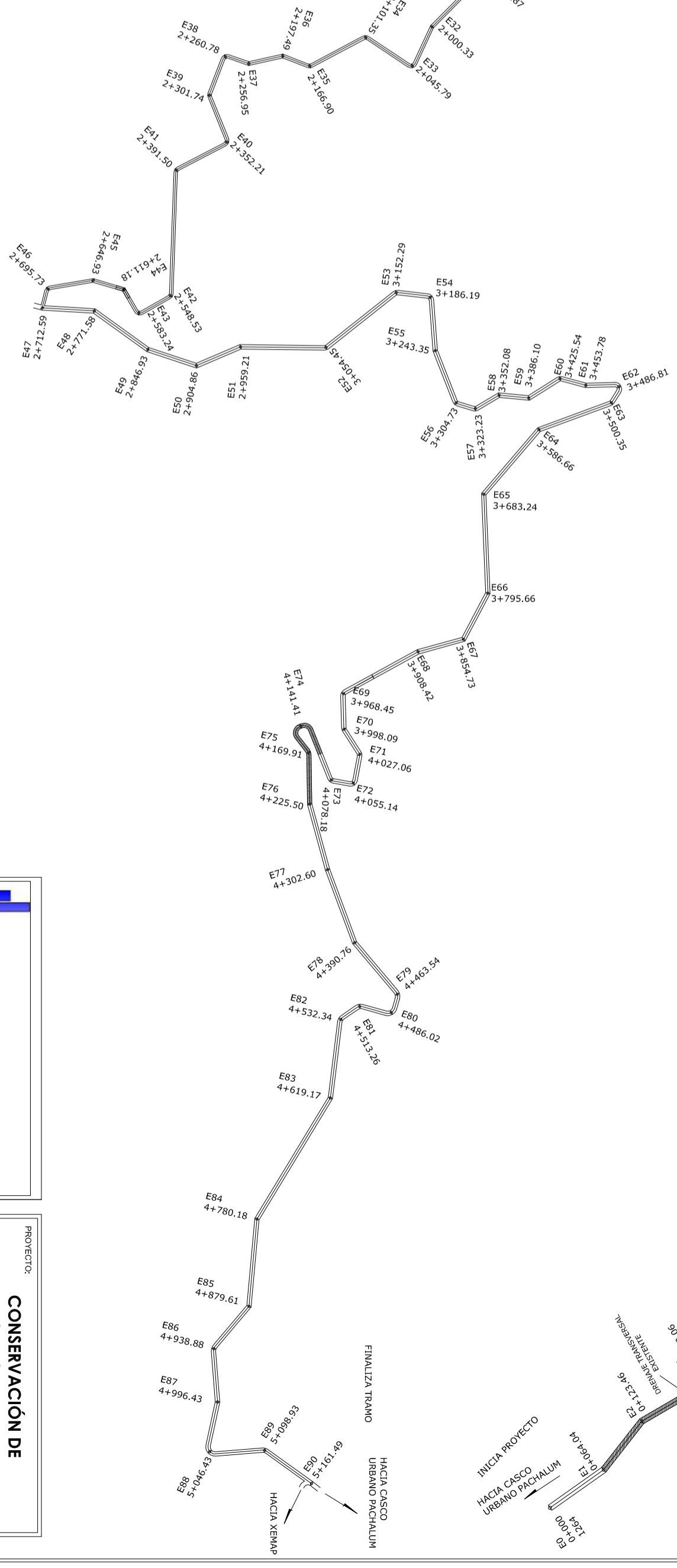
8	22	23°38'56"	49.91
22	23	351°12'4"	34.94
23	24	22°59'26"	29.73
24	25	0°9'49"	39.38
25	26	11°24'24"	74.99
26	27	11°24'24"	29.98
27	28	23°2'45"	45.29
28	29	31°32'13"	53.59
29	30	114°43'4"	52.97
30	31	356°43'4"	99.05
31	32	344°35'0"	39.80

SIMBOLOGÍA	
0+000 CAMINAMIENTO	SUELO NATURAL
E0 ESTACION	100.00
2% PENDIENTE	90.00
SUELO NATURAL	RAZANTE
RASANTE	
TRANSVERSAL	
TC TUBO CONCRETO	0+000
PAVIMENTO EXISTENTE	CAMINAMIENTO



EST.	P.O	AZIMUT	DIST.HORIZONTAL
0	1	153°47'13"	64.49
1	2	153°47'13"	152.28
2	3	124°27'38"	48.23
3	4	153°36'20"	30.65
4	5	82°20'4"	77.55
5	6	98°33'4"	79.44
6	7	111°46'42"	91.34
7	8	140°51'42"	51.02
8	9	59°51'28"	44.13
9	10	115°30'57"	71.15
10	11	68°16'51"	34.97
11	12	180°45'2"	119.37
12	13	96°53'14"	27.15
13	14	202°43'9"	13.39
14	15	153°28'7"	87.26
15	16	199°32'59"	43.32
16	17	139°59'10"	70.34
17	18	117°39'4"	63.34
18	19	176°41'52"	158.49
19	20	233°22'51"	50.67
20	21	181°3'35"	101.47
21	22	266°33'30"	42.80
22	23	252°12'31"	78.11
23	24	181°11'43"	33.85
24	25	215°54'15"	20.34
25	26	145°51'49"	29.52
26	27	195°25'20"	15.07
27	28	102°46'40"	20.85
28	29	148°31'59"	68.41
29	30	115°43'20"	64.12
30	31	91°27'59"	65.75
31	32	152°31'33"	81.41
32	33	134°45'20"	45.5
33	34	229°32'20"	55.56
34	35	171°9'7"	65.55
35	36	218°31'44"	30.99
36	37	185°37'28"	39.46
37	38	214°32'59"	23.83
38	39	130°28'6"	40.3
39	40	87°51'10"	51.12
40	41	169°1'5"	59.29
41	42	110°50'22"	137.03
42	43	169°39'12"	34.71
43	44	255°46'41"	27.95
44	45	214°45'47"	35.75
45	46	187°39'39"	48.8
46	47	124°41'45"	16.86
47	48	21°29'58"	58.98
48	49	54°0'25"	75.05
49	50	36°35'32"	58.23
50	51	354°58'45"	54.35
51	52	18°42'4"	95.24
52	53	340°4'7"	97.84
53	54	26°12'24"	33.91
54	55	102°48'31"	57.16
55	56	86°23'46"	61.38
56	57	35°1'4"	18.51
57	58	348°35'31"	28.85
58	59	23°35'32"	34.01
59	60	346°25'43"	39.44

60	61	32°45'28"	28.24
61	62	20°40'49"	33.04
62	63	132°56'53"	13.53
63	64	177°49'56"	96.31
64	65	148°45'36"	96.58
65	66	105°46'46"	112.42
66	67	136°6'36"	59.07
67	68	182°48'33"	53.69
68	69	168°53'30"	74.08
69	70	107°13'56"	35.6
70	71	76°43'47"	29.51
71	72	120°29'17"	27.54
72	73	206°21'0"	19.04
73	74	258°45'12"	67.23
74	75	91°58'34"	28.5
75	76	106°51'14"	55.59
76	77	92°55'54"	77.1
77	78	87°53'5"	88.16
78	79	68°31'49"	72.79
79	80	126°26'15"	22.48
80	81	209°10'35"	27.24
81	82	163°55'56"	19.08
82	83	115°40'58"	86.83
83	84	139°24'32"	161.01
84	85	113°25'32"	99.43
85	86	147°55'42"	59.28
86	87	104°11'7"	57.54
87	88	117°6'12"	50.01
88	89	16°51'23"	52.5
89	90	53°32'10"	62.56



# PLANTA GENERAL DE E0 A E90

TRAMO 2

ESC: 1:5,000

ARQUITECTURA E INGENIERIA  
PLANIFICACION Y CONSTRUCCION

PROYECTO:  
CONSERVACION DE INFRAESTRUCTURA VIAL DEL MUNICIPIO DE PACHALUM, QUICHÉ.

FECHA: SEPTIEMBRE 2017

CONTIENE: PLANTA GENERAL TRAMO 1 DE E0 A E32  
PLANTA GENERAL TRAMO 2 DE E0 A E90

ESCALA: 1:5,000

HOJA No. 2 / 24

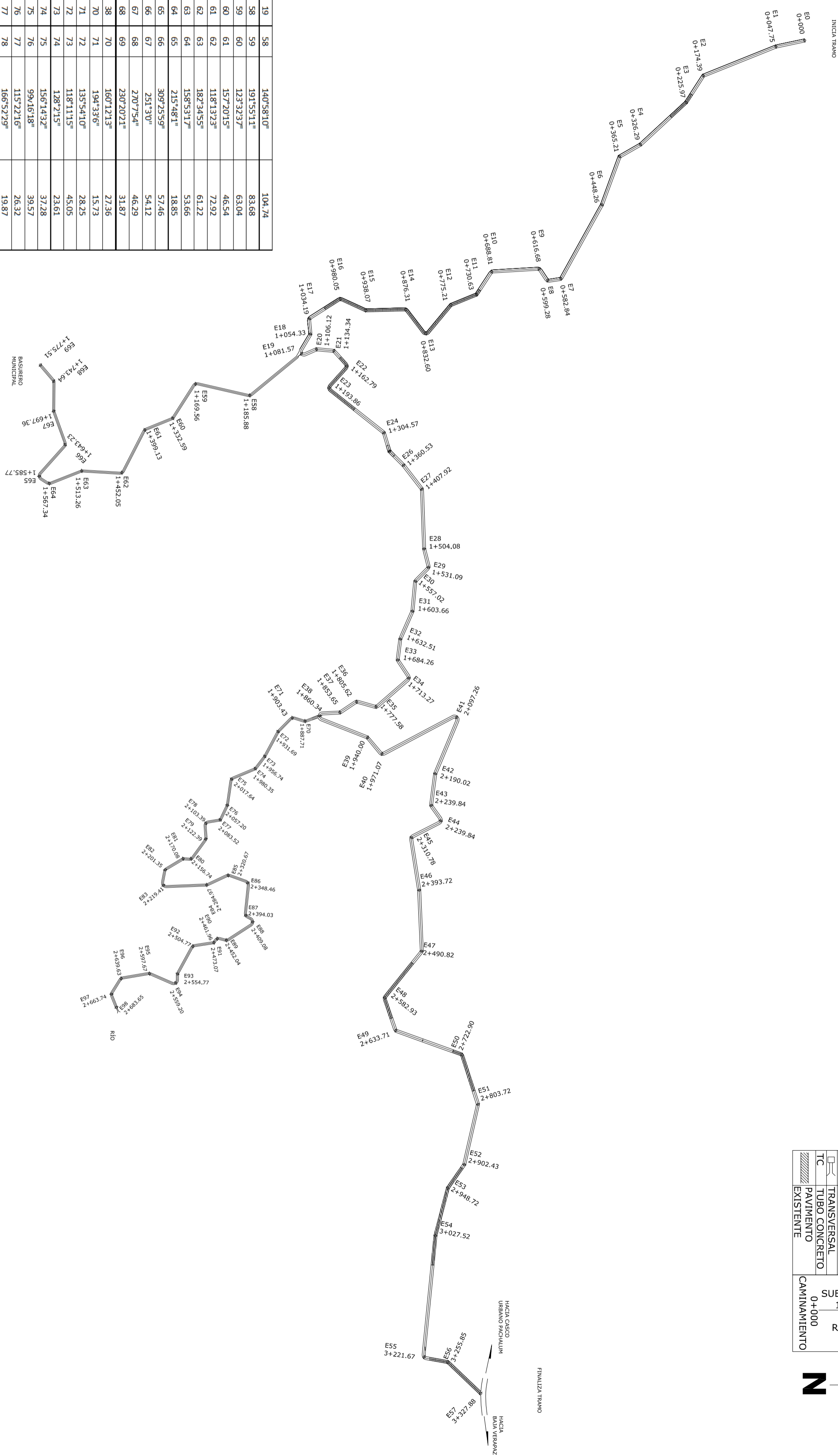
(F.) Vto. Bto. Aprobado

SIMBOLOGÍA	
0+000	CAMINAMIENTO
E0	ESTACION
Z%	PENDIENTE
---	SUELO NATURAL
---	RASANTE
---	TRANSVERSAL
---	TUBO CONCRETO
---	PAVIMENTO EXISTENTE
0+000	SUELO NATURAL
100.00	90.00
RAZANTE	
0+000	CAMINAMIENTO



EST.	P.O	AZMUT	DIST. (HORIZONTAL)
0	1	167°42'32"	47.75
1	2	158°14'52"	126.63
2	3	122°49'5"	51.58
3	4	137°19'5"	100.32
4	5	149°56'8"	38.93
5	6	110°12'38"	83.04
6	7	119°6'19"	134.59
7	8	172°5'22"	16.44
8	9	232°44'51"	17.40
9	10	176°40'30"	72.13
10	11	123°55'43"	41.82
11	12	157°45'26"	44.58
12	13	131°27'11"	57.39
13	14	229°47'36"	43.71
14	15	179°0'5"	61.76
15	16	204°0'2"	41.95
16	17	147°32'2"	54.17
17	18	86°29'5"	20.14
18	19	114°26'32"	27.24
19	20	344°13'26"	24.55
20	21	5°12'3"	28.21
21	22	52°2'37"	28.55
22	23	129°56'55"	30.98
23	24	39°18'7"	108.63
24	25	72°47'30"	27.16
25	26	45°6'1"	30.88
26	27	52°37'55"	47.39
27	28	87°48'41"	94.91
28	29	76°58'47"	28.26
29	30	133°1'54"	25.93
30	31	95°41'42"	46.65
31	32	113°34'1"	48.84
32	33	96°43'6"	31.75
33	34	59°12'31"	29.02
34	35	138°40'45"	64.31
35	36	194°17'3"	28.05
36	37	147°39'44"	28.03
37	38	169°56'37"	26.69
38	39	247°59"	79.67
39	40	48°30'8"	31.06
40	41	333°56'9"	126.19
41	42	110°47'10"	92.82
42	43	97°3'33"	49.77
43	44	58°29'3"	23.38
44	45	150°8'43"	47.56
45	46	81°42'22"	82.94
46	47	87°41'17"	97.1
47	48	128°19'40"	92.11
48	49	71°18'28"	50.78
49	50	207°14'58"	89.19
50	51	71°58'6"	80.82
51	52	102°46'15"	98.71
52	53	125°2'29"	46.29
53	54	104°35'21"	78.8
54	55	95°15'51"	194.15
55	56	122°20'54"	34.18
56	57	43°31'0"	72.03

19	58	144°58'10"	104.74
58	59	191°55'11"	83.68
59	60	123°32'37"	63.04
60	61	157°20'15"	46.54
61	62	118°13'23"	72.92
62	63	182°34'55"	61.22
63	64	158°53'17"	53.66
64	65	215°48'1"	18.85
65	66	309°25'59"	57.46
66	67	251°3'0"	54.12
67	68	270°7'54"	46.29
68	69	230°20'21"	31.87
69	70	160°12'13"	27.36
70	71	194°33'6"	15.73
71	72	135°54'10"	28.25
72	73	118°11'5"	45.05
73	74	128°2'15"	23.61
74	75	156°14'32"	37.28
75	76	99°16'48"	39.57
76	77	115°22'16"	26.32
77	78	166°52'29"	19.87
78	79	90°0'26"	19.01
79	80	126°27'52"	34.72
80	81	180°56'11"	12.97
81	82	148°11'19"	31.27
82	83	96°59'17"	18.06
83	84	359°38'3"	65.56
84	85	21°11'49"	35.7
85	86	335°54'17"	27.29
86	87	93°31'37"	45.57
87	88	43°17'33"	15.05
88	89	144°50'0"	42.56
89	90	189°51'3"	9.65
90	91	130°30'21"	11.38
91	92	170°14'46"	31.7
92	93	119°9'26"	46.73
93	94	101°8'51"	8.2
94	95	199°45'14"	37.97
95	96	170°12'44"	41.96
96	97	121°21'54"	24.11
97	98	69°37'22"	19.9



# PLANTA GENERAL DE E0 A E98

TRAMO 3

ESC: 1:5,000

ARQUITECTURA E INGENIERIA  
PLANIFICACION Y CONSTRUCCION

PROYECTO:  
CONSERVACION DE  
INFRAESTRUCTURA VIAL DEL  
MUNICIPIO DE  
PACHALUM, QUICHÉ.

FECHA: SEPTIEMBRE 2017

ESCALA: 1:5,000

CONTIENE: PLANTA GENERAL TRAMO 3 DE E0 A E98

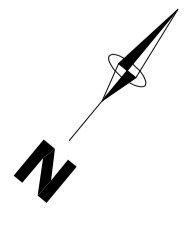
HOJA No. 3 / 24

(F.) Vto. Bto. Aprobado

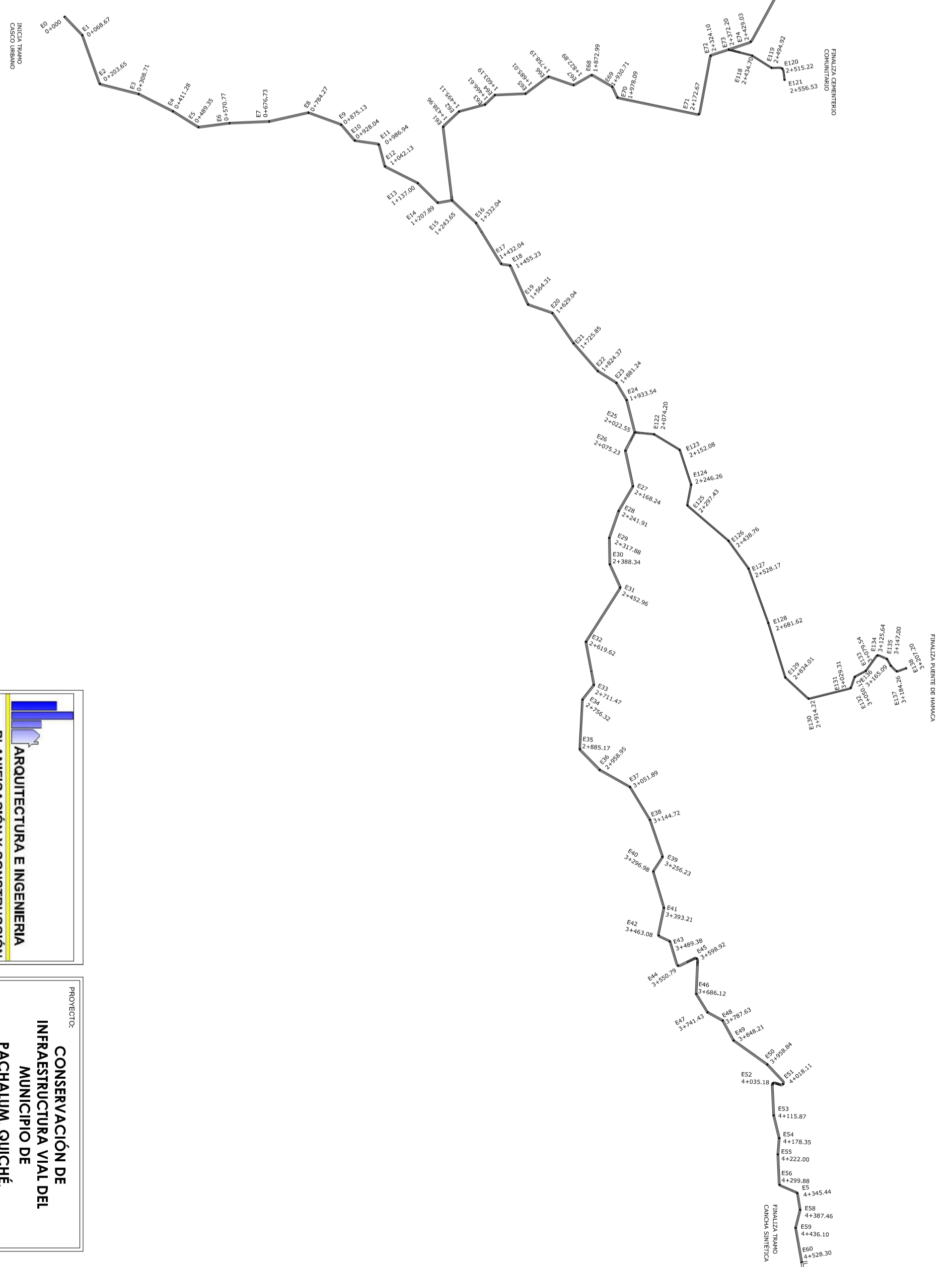
DISEÑO:  
ARQUITECTURA E INGENIERIA.

DIBUJO:  
ARQUITECTURA E INGENIERIA.

SIMBOLOGÍA	
0+000	CAMINAMIENTO
E0	ESTACIÓN
2%	PENDIENTE
	SUELO NATURAL
	TRANSVERSAL
	TUBO CONCRETO
	PAVIMENTO EXISTENTE
	SUELO NATURAL
	100.00
	90.00
	RAZANTE
0+000	CAMINAMIENTO



EST.	P.O.	ALMUTJ	DIST. (m)	EST. (m)	P.O.	ALMUTJ	DIST. (m)
0	1	951638	68.62	44	45	2972157	48.13
1	2	1207108	155.35	45	46	14072679	87.21
2	3	644018	104.68	46	47	10973657	55.31
3	4	763955	102.57	47	48	7864038	48.2
4	5	81412	78.07	48	49	11122127	60.38
5	6	42482	81.42	49	50	833456	110.02
6	7	42482	105.97	50	51	1003015	61.27
7	8	372424	107.53	51	52	235256	15.97
8	9	70137	90.86	52	53	1362255	80.68
9	10	99453	52.91	53	54	144432	43.64
10	11	592312	58.89	54	55	1365528	77.89
11	12	1234653	55.20	55	56	130746	45.56
12	13	7781	94.87	56	57	130746	42.42
13	14	942927	70.89	57	58	153541	48.24
14	15	405122	35.73	58	59	153541	92.2
15	16	95124	88.41	59	60	130727	92.2
16	17	1083024	106.17	60	61	3131617	158.33
17	18	611136	72.02	61	62	61531	56.15
18	19	115619	109.08	62	63	345735	71.5
19	20	694134	64.72	63	64	67722	36.58
20	21	1045947	96.81	64	65	473014	81.82
21	22	985510	98.52	65	66	134546	73.18
22	23	823258	58.87	66	67	687918	64.7
23	24	1096277	52.30	67	68	79343	50.1
24	25	1255931	89.01	68	69	1135049	57.72
25	26	1671128	52.60	69	70	1135049	27.39
26	27	1282127	91.09	70	71	61348	214.58
27	28	1695446	73.67	71	72	3312840	151.43
28	29	159131	75.97	72	73	307229	48.1
29	30	1385525	70.51	73	74	3483859	56.83
30	31	116143	64.57	74	75	300564	172.8
31	32	172841	166.66	75	76	3241321	517.7
32	33	1295451	91.85	76	77	314739	73.96
33	34	1474720	128.86	77	78	3207011	59.25
34	35	962155	73.77	78	79	242914	15.69
35	36	792632	92.94	79	80	305122	55.59
36	37	1485920	128.86	80	81	164548	88.57
37	38	1084324	102.83	81	82	3431622	37.42
38	39	121252	101.51	82	83	235621	42.35
39	40	1715157	40.74	83	84	323426	92.94
40	41	1235441	96.23	84	85	12334	50.01
41	42	1504956	69.87	85	86	3322245	69.66
42	43	78356	26.3	86	87	3465818	72.75
43	44	121436	61.4	87	88	3264199	41.8
				88	89	0707	117.82
				89	90	3423635	106.95
				90	91	32527	117.24
				91	92	3213512	60.69
				92	93	3514630	89.14
				93	94	2827420	39.8
				94	95	3074207	46.63
				95	96	3074207	46.63
				96	97	315735	112.12
				97	98	881359	112.22
				98	99	12748	80.75
				99	100	137451	84.92
				100	101	311421	40.64
				101	102	281729	47.85
				102	103	651736	77.1
				103	104	241021	75.49
				104	105	70551	49.75
				105	106	125319	42.23
				106	107	56439	171.71
				107	108	1735919	91.38
				108	109	10972415	63.23
				109	110	1433332	72.74
				110	111	144320	48.71
				111	112	342333	90.99
				112	113	287443	73.54
				113	114	287443	73.54
				114	115	287443	73.54
				115	116	359523	18.47
				116	117	29217	49.48
				117	118	643921	62.51
				118	119	82107	60.22
				119	120	535936	20.3
				120	121	1275657	41.3
				121	122	55433	51.65
				122	123	813512	77.88
				123	124	1215911	94.18
				124	125	1507438	51.18
				125	126	905599	141.33
				126	127	1041433	89.41
				127	128	120743	133.45
				128	129	1224514	152.48
				129	130	92127	80.12
				130	131	354933	109.69
				131	132	3407124	26.21
				132	133	35742	29.41
				133	134	205117	46.11
				134	135	1107434	21.56
				135	136	924013	18.09
				136	137	313410	22.94
				137	138		



**ARQUITECTURA E INGENIERIA**  
PLANIFICACION Y CONSTRUCCION

PROYECTO:  
**CONSERVACIÓN DE INFRAESTRUCTURA VIAL DEL MUNICIPIO DE PACHALUM, QUICHÉ.**

FECHA: SEPTIEMBRE 2017

ESCALA: 1:10,000

CONTIENE: PLANTA GENERAL TRAMO 4 DE E0 A E138