



PUNTOS DE CONTROL VERTICAL (BM)

PUNTOS	COORDENADAS TOPOGRAFICAS		COTA
	NORTE	ESTE	
BM-090	8571255.994	521749.603	4175.176
BM-091	8571227.412	522105.386	4182.509
BM-092	8571416.145	522492.379	4194.351
BM-093	8571391.516	522801.831	4207.813
BM-094	8571130.261	522915.050	4208.988
BM-095	8570948.397	523098.087	4212.710
BM-096A	8570727.787	523352.177	4230.035
BM-097A	8570843.512	523631.979	4258.832
BM-098A	8570528.390	523830.375	4281.045
BM-099A	8569999.028	523720.558	4301.549
BM-100A	8569681.667	523746.990	4288.397
BM-101A	8569506.695	524037.262	4280.090
BM-102A	8569194.365	524357.823	4276.303
BM-108	8568930.995	524501.135	4272.323
BM-109	8568735.297	524763.869	4274.575
PB-12/BM-110	8568512.337	525135.154	4261.156
AZ-12/BM-111	8568343.912	525582.623	4228.470
BM-112	8567872.799	525795.725	4197.493
BM-113	8567434.283	525985.832	4168.532
BM-114	8567014.834	526100.007	4144.892
BM-115	8567029.230	526506.178	4129.654
BM-116	8567141.638	526827.472	4114.820
BM-117	8566973.808	527362.151	4079.702
BM-118	8566759.266	527716.909	4062.922
PB-13/BM-119	8566774.004	528192.494	4043.016
AZ-13/BM-120	8567144.767	528475.361	4011.197
BM-121	8567283.247	528110.621	3984.693
BM-122	8567749.522	528190.301	3967.107
BM-123	8567608.357	527946.346	3939.429
BM-124	8567816.061	528321.077	3913.451
BM-125	8567464.705	528310.148	3893.312
BM-126	8567484.863	528802.103	3860.181
BM-127	8567751.467	529111.447	3842.897
BM-128	8567469.094	529471.434	3818.492
BM-129	8567120.472	529596.607	3790.789
PB-14/BM-130	8566749.668	529593.247	3762.019
AZ-14/BM-131	8566540.225	529365.158	3736.372
BM-132	8566227.785	529041.033	3714.641
BM-133	8565952.533	529135.412	3696.989
BM-134	8565693.148	529143.090	3669.610
BM-135	8565278.468	528827.434	3640.476
BM-136	8565067.546	528424.586	3617.517
BM-137	8564805.005	528479.760	3600.033
BM-138	8564703.274	528863.316	3562.562
BM-139	8564569.901	528941.026	3538.790
BM-140	8564141.774	528954.794	3512.859
BM-141	8563950.762	528752.554	3492.255
BM-142	8563931.488	528776.599	3474.314
AZ-15/BM-143	8563533.583	528874.364	3448.940
BM-144	8563605.545	529030.944	3424.080
BM-145	8563306.824	528743.805	3401.043
BM-146	8563158.403	528400.628	3372.545
BM-147	8563070.668	528553.353	3344.340
BM-148	8563218.345	529013.816	3308.985
BM-149	8563357.737	529392.536	3289.113
AZ-16/BM-150	8563882.706	529717.917	3267.249

PUNTOS DE CONTROL HORIZONTAL

VERTICE	VERTICE	DISTANCIA	AZIMUT	NORTE	ESTE	COTA
P-066	P-066-P-067	288.47	64° 12' 40.09"	8571541.647	522752.122	4206.488
P-067	P-067-P-068	66.02	128° 34' 38.82"	8571500.479	522803.734	4207.195
P-068	P-068-P-069	218.10	54° 55' 44.79"	8571255.581	523093.555	4212.078
P-069	P-069-P-070	57.82	145° 36' 12.28"	8571207.870	523126.220	4211.370
P-070A	P-070A-P-071A	87.70	61° 55' 3.87"	8570955.848	523498.911	4239.682
P-071A	P-071A-P-072A	74.89	138° 0' 38.86"	8570997.133	523576.290	4249.781
P-072A	P-072A-P-073A	214.56	140° 20' 19.55"	8570941.469	523626.391	4254.004
P-073A	P-073A-P-074A	162.05	122° 20' 23.99"	8570678.336	523768.922	4275.802
P-074A	P-074A-P-075A	206.457	185° 35' 54.79"	8570322.918	523810.233	4288.978
P-081	P-081-P-082	232.42	85° 23' 32.27"	8568949.666	524732.802	4272.914
PB-11	PB-11-AZ-11	120.30	123° 59' 13.4"	8570765.247	524923.676	4173.668
P-082	P-082-PB-12	204.16	136° 39' 47.39"	8568586.804	524903.982	4278.442
PB-12/BM-110	PB-12-AZ-12	242.87	107° 51' 18.95"	8568512.337	525135.154	4261.156
AZ-12/BM-111	AZ-12-P-083	478.12	110° 37' 33.64"	8568343.912	525582.623	4228.470
P-083	P-083-P-084	115.29	170° 18' 21.46"	8568230.273	525602.035	4223.666
P-084	P-084-P-085	257.08	171° 45' 3.86"	8567618.383	525832.609	4182.304
P-085	P-085-P-086	172.86	26° 42' 32.89"	8567183.645	525832.609	4124.590
P-086	P-086-P-087	81.46	78° 43' 26.04"	8567199.573	526663.755	4120.526
P-087	P-087-P-088	150.07	92° 4' 13.19"	8566968.366	527512.126	4078.344
P-088	P-088-PB-13	331.22	77° 34' 27.16"	8566830.536	528040.371	4048.777
PB-13	PB-13-AZ-13	162.29	110° 23' 9.89"	8566774.004	528192.494	4043.016
AZ-13	AZ-13-P-089	466.35	37° 20' 28.28"	8567144.767	528475.361	4011.197
P-089	P-089-P-090	289.07	16° 16' 22.57"	8567560.733	528191.621	3968.228
P-090	P-090-P-091	382.25	37° 9' 27.11"	8567913.001	528177.228	3921.388
P-091	P-091-P-092	183.49	112° 3' 50.99"	8567682.540	529281.500	3833.695
P-092	P-092-P-093	228.71	118° 28' 11.58"	8567360.070	529672.483	3805.709
P-093	P-093-PB-14	172.13	156° 11' 56.36"	8566962.985	529666.070	3779.822
PB-14/BM-130	PB-14-AZ-14	225.41	198° 50' 56.99"	8566749.668	529593.247	3762.019
AZ-14/BM-131	AZ-14-P-094	309.66	227° 26' 25.04"	8566540.225	529365.158	3736.372
P-094	P-094-P-095	328.84	218° 14' 38.36"	8566282.115	529161.725	3712.570
P-095	P-095-P-096	143.45	229° 30' 36.39"	8566134.621	528931.937	3716.150
P-096	P-096-P-097	96.78	169° 5' 49.9"	8566039.590	528950.242	3706.174
P-097	P-097-P-098	77.07	231° 30' 34.67"	8565904.564	529075.086	3692.538
P-098	P-098-P-099	205.15	209° 36' 50.84"	8565514.795	529041.713	3656.233
P-099	P-099-P-100	242.48	232° 32' 58.15"	8565131.022	528634.935	3629.653
P-100	P-100-P-101	55.73	176° 53' 59.09"	8565011.900	528427.600	3616.163
P-101	P-101-P-102	47.27	204° 7' 2.39"	8564968.755	528408.284	3617.592
P-102	P-102-P-103	175.11	113° 23' 22.3"	8564735.489	528640.483	3592.169
P-103	P-103-P-104	201.16	39° 27' 20.32"	8564890.805	528768.314	3577.281
P-104	P-104-P-105	44.86	165° 15' 21.07"	8564659.891	528874.733	3560.651
P-105	P-105-PB-15	332.92	175° 14' 4.04"	8564238.137	528668.684	3523.646
PB-15	PB-15-AZ-15	147.46	195° 0' 19.79"	8563808.332	528714.375	3490.540
AZ-15/BM-143	AZ-15-P-106	313.54	161° 49' 53.71"	8563533.583	528874.364	3448.940
P-106	P-106-P-107	195.62	51° 52' 35.5"	8563654.350	529028.253	3437.584
P-107	P-107-P-108	197.96	211° 11' 57.3"	8563436.213	528928.396	3413.151
P-108	P-108-P-109	142.55	120° 20' 35.3"	8562998.656	528676.376	3334.389
P-109	P-109-P-110	54.46	60° 47' 18.24"	8563025.235	528723.911	3331.663
P-110	P-110-P-111	50.97	57° 2' 5.3"	8563385.473	529435.303	3287.677
P-111	P-111-PB-16	128.75	31° 11' 14.43"	8563495.619	529501.976	3282.372
PB-16	PB-16-AZ-16	192.63	19° 3' 38.35"	8563677.685	529564.882	3273.572
AZ-16/BM-150	AZ-16/BM-150	255.84	36° 44' 20.37"	8563882.706	529717.917	3267.249

LEYENDA

- POLIGONAL DE APOYO
- CARRERA EXISTENTE
- PUNTOS DE CONTROL HORIZONTAL (AZ)
- PUNTOS DE CONTROL HORIZONTAL (PB)
- PUNTOS DE POLIGONAL (P)
- PUNTOS DE CONTROL VERTICAL (BM)

		Jefe Estudio: ING. CESAR GUEVARA Especialista: ING. CARLOS URQUIAGA Revisión: Proceso y Ploteo: GER. ESTUDIOS-HOB	REVISIONES		ESTUDIO DEFINITIVO DE LA REHABILITACION Y MEJORAMIENTO CARRETERA: HUANCavelica - LIRCAY TRAMO: 1+550(Av. Los Chancas)-LIRCAY CONTRATO N° 7341-2012	PLAN DE GEOREFERENCIACION COORDENADAS TOPOGRAFICAS 7341-12-PGT-03	Fecha: SEPTIEMBRE 2013 Escala Formato A1: 1/7500 Escala Formato A3: 1/15000
			N°	FECHA			