ANEXO A
LLAMADO 122/2017

Nº Ítem Según Especificaciones Técnicas)	Ítems	Unidad de Medida	Cantidad	1 BENITO ROGGIO E HIJOS S.A.		2 CALDETEC INGENIERIA S.R.L.		3 CONSORCIO BELEN		4 TECNOEDIL S.A.		5 PROEL INGENIERÍA		6 T & C		7 CONSORCIO VIAL CONCEPCION		8 EDIVI S.A.		9 WG - WALCACER GUTEMBERG ENGENHARIA LTDA	
				Precio Unitario	Precio Total	Precio Unitario	Precio Total	Precio Unitario	Precio Total	Precio Unitario	Precio Total	Precio Unitario	Precio Total	Precio Unitario	Precio Total	Precio Unitario	Precio Total	Precio Unitario	Precio Total	Precio Unitario	Precio Total
TRAMO: ACCESO A CONCEPCIÓN (Travesia Urbana - Doble Avenida)																					
ITEM 1	MOVIMIENTO DE SUELOS																				
1.1	Desbroce, despeje y limpieza	m^2	14.000,00	375	5.250.000	198	2.772.000	782	10.948.000	2.939	41.146.000	518	7.252.000	338	4.732.000	860	12.040.000	1.482	20.748.000	8.856	123.984.000
1.2	Remoción de Estructuras Existentes	Un.	10,00	6.439.099	64.390.990	1.188.781	11.887.810	1.734.942	17.349.420	14.290.596	142.905.960	6.525.706	65.257.060	1.598.240	15.982.400	10.195.250	101.952.500	644.050	6.440.500	10.891.400	108.914.000
1.3	Excavación no clasificada	m^3	5.850,00	21.992	128.653.200	22.834	133.578.900	17.584	102.866.400	21.149	123.721.650	22.256	130.197.600	17.473	102.217.050	20.910	122.323.500	15.457	90.423.450	13.353	78.115.050
1.4	Excavación de materiales no aptos	m^3	1.600,00	25.224	40.358.400	18.921	30.273.600	17.584	28.134.400	29.607	47.371.200	22.256	35.609.600	13.870	22.192.000	31.770	50.832.000	15.457	24.731.200	14.720	23.552.000
1.7	Excavación de zanjas de drenaje	m^3	100,00	21.304	2.130.400	12.020	1.202.000	19.735	1.973.500	29.417	2.941.700	24.927	2.492.700	18.170	1.817.000	26.230	2.623.000	15.457	1.545.700	15.274	1.527.400
1.8	Terraplén	m^3	2.700,00	51.871	140.051.700	38.434	103.771.800	32.171	86.861.700	45.818	123.708.600	35.423	95.642.100	50.632	136.706.400	53.000	143.100.000	33.491	90.425.700	29.736	80.287.200
ITEM 2	PAQUETE ESTRUCTURAL																				
2.4	Riego de Liga	m2	34.800,00	2.784	96.883.200	3.731	129.838.800	3.985	138.678.000	2.951	102.694.800	4.665	162.342.000	4.411	153.502.800	3.590	124.932.000	4.250	147.900.000	4.837	168.327.600
2.5	Carpeta de Concreto Asfáltico	m3	975,00	1.630.367	1.589.607.825	1.180.068	1.150.566.300	1.228.968	1.198.243.800	1.247.539	1.216.350.525	1.355.492	1.321.604.700	1.311.193	1.278.413.175	1.159.180	1.130.200.500	1.416.910	1.381.487.250	2.556.064	2.492.103.900
2.6	Sub Rasante con material granular- Ripio	m3	6.000,00	67.955	407.730.000	63.375	380.250.000	62.289	373.734.000	54.399	326.394.000	36.488	218.928.000	76.656	459.936.000	50.790	304.740.000	58.235	349.410.000	41.009	246.054.000
2.7	Pavimento Tipo Empedrado	m2	18.000,00	94.059	1.693.062.000	59.459	1.070.262.000	47.677	858.186.000	52.261	940.698.000	60.889	1.096.002.000	83.701	1.506.618.000	72.170	1.299.060.000	48.316	869.688.000	62.393	1.123.074.000
ITEM 3	OBRAS DE DRENAJE																				
	Alcantarillas Celulares de H°A°																				
3.10	Cordón de hormigón simple de 15x40cm	m	2.189,00	81.056	177.431.584	61.371	134.341.119	41.021	89.794.969	81.096	177.519.144	53.022	116.065.158	78.413	171.646.057	84.980	186.021.220	50.168	109.817.752	60.530	132.500.170
3.11	Cordón Cuneta de hormigón	m	2.347,00	186.248	437.124.056	58.214	136.628.258	95.776	224.786.272	189.785	445.425.395	137.334	322.322.898	173.236	406.584.892	168.290	394.978.630	106.138	249.105.886	149.914	351.848.158
3.12	Sumideros	Un.	18,00	3.981.019	71.658.342	1.121.556	20.188.008	3.576.893	64.394.074	7.578.318	136.409.724	13.307.206	239.529.708	6.838.618	123.095.124	4.448.050	80.064.900	7.560.643	136.091.574	953.864	15.369.552
3.13	Alcantarilla Tubular Simple D= 1,00m	m	1.360,00	1.181.704	1.607.117.440	1.704.669	2.318.349.840	950.117	1.292.159.120	1.796.711	2.443.526.960	1.563.301	2.126.089.360	1.651.106	2.245.504.160	1.806.020	2.456.187.200	1.752.572	2.383.497.920	3.320.994	4.516.551.840
3.14	Alcantarilla Tubular ID= 1,20m	m	200,00	1.488.859	297.771.800	1.864.689	372.937.800	1.107.772	221.554.400	2.456.803	491.360.600	1.856.060	371.212.000	2.008.268	401.653.600	2.216.510	443.302.000	1.970.513	394.102.600	3.839.485	767.897.000
3.15	Alcantarilla Tubular 2D= 1,20m	m	480,00	2.906.309	1.395.028.320	3.647.516	1.750.807.680	2.160.255	1.036.922.400	4.851.246	2.328.598.080	3.712.119	1.781.817.120	2.948.197	1.415.134.560	3.492.350	1.676.328.000	1.411.985	677.752.800	8.713.788	3.222.618.240
ITEM 4	OBRAS COMPLEMENTARIAS																				
4.1	Señalización horizontal	m^2	1.796,02	49.334	88.604.851	43.727	78.534.567	39.956	71.761.775	49.817	89.472.328	66.536	119.499.987	56.425	101.340.429	45.270	81.305.825	33.491	60.150.506	116.944	210.033.763
4.2	Señalización vertical	m^2	33,11	1.383.968	45.823.180	1.540.794	51.015.689	1.548.564	51.272.954	1.537.198	50.896.626	1.450.485	48.025.558	1.569.700	51.972.767	1.109.580	36.737.532	1.049.802	34.758.944	1.967.844	65.155.315
4.7	Empastado	m^2	7.781,00	7.872	61.252.032	11.216	87.271.696	6.274	48.817.994	10.319	80.292.139	8.320	64.737.920	11.682	90.897.642	7.390	57.501.590	7.085	55.128.385	8.322	64.753.482
TRAMO: VARIANTE CONCEPCIÓN (Enlace entre Ruta Concepción – Vallemi y la Ruta Nacional N° 5 "Gral. Bernardino Caballero)																					
ITEM 1	MOVIMIENTO DE SUELOS																				
1.1	Desbroce, despeje y limpieza	m2	280.000,00	375	105.000.000	198	55.440.000	782	218.960.000	2.939	822.920.000	518	145.040.000	338	94.640.000	650	182.000.000	1.482	414.960.000	5.839	1.578.920.000
1.3	Excavación no clasificada	m^3	5.000,00	21.992	109.960.000	22.834	114.170.000	17.584	87.920.000	21.149	105.745.000	22.256	111.280.000	17.473	87.365.000	20.910	104.550.000	15.457	77.285.000	13.353	66.765.000
1.4	Excavación de materiales no aptos	m^3	7.500,00	25.224	189.180.000	18.921	141.907.500	17.584	131.880.000	29.607	222.052.500	22.256	166.920.000	13.870	104.025.000	28.370	212.775.000	15.457	115.927.500	14.720	110.400.000
1.5	Excavación de zanjas de drenaje	m^3	9.060,00	21.304	193.014.240	12.020	108.901.200	19.735	178.799.100	29.417	266.518.020	24.927	225.838.620	18.170	164.620.200	26.230	237.643.800	15.457	140.040.420	15.274	138.382.440
1.6	Excavación estructural	m^3	970,00	135.988	131.908.360	34.153	33.128.410	20.352	19.741.440	42.700	41.419.000	31.159	30.224.230	49.369	47.887.930	26.810	26.005.700	15.457	14.993.290	15.137	14.682.890
1.7	Terraplén	m^3	125.400,00	51.871	6.504.623.400	38.434	4.819.623.600	32.171	4.034.243.400	45.818	5.745.577.200	35.423	4.442.044.200	39.734	4.982.643.600	49.730	6.236.142.000	33.491	4.199.771.400	29.736	3.728.894.400
ITEM 2	PAQUETE ESTRUCTURAL																				
2.1	Sub-Base (CBR ≥ 80%)	m^3	15.110,00	361.589	5.463.609.790	67.814	1.024.669.540	211.841	3.197.895.510	276.935	4.184.487.850	160.271	2.421.694.810	280.672	4.240.953.920	267.750	4.045.702.500	74.852	1.131.013.720	47.368	715.685.150
2.2	Base Granular (CBR ≥ 100%)	m^3	14.125,00	435.001	6.144.389.125	319.026	4.506.242.250	253.986	3.587.552.250	339.304	4.792.669.000	384.417	5.429.890.125	298.573	4.217.343.625	314.930	4.448.386.250	397.597	5.616.057.625	286.128	4.041.558.000
2.3	Imprimación Asfáltica	m^3	176.570,00	7.593	1.340.696.010	9.614	1.697.543.980	8.925	1.575.887.250	10.134	1.789.360.380	7.032	1.241.640.240	10.640	1.878.704.800	8.840	1.560.878.800	10.472	1.849.041.040	9.727	1.717.496.390
2.4	Riego de Liga	m^2	256.511,00	2.784	714.126.624	3.731	957.042.541	3.985	1.022.196.335	2.951	756.963.961	4.665	1.196.623.815	4.411	1.131.470.021	2.460	631.017.080	4.250	1.090.171.750	4.837	1.240.743.707
2.5	Carpeta de Concreto Asfáltico	m^3	3.771,63	1.630.367	6.149.141.088	1.180.068	4.450.779.871	1.228.968	4.635.212.578	1.247.539	4.705.255.519	1.355.492	5.112.414.292	1.311.193	4.945.334.855	1.160.990	4.378.824.714	1.416.910	5.344.080.283	2.556.004	9.640.301.367
ITEM 3	OBRAS DE DRENAJE																				
	Alcantarillas Celulares																				
3.1	Plateas de Hormigón fck:30Mpa, para Alcantarillas	m^3	433,00	993.997	430.400.701	893.712	386.977.296	517.015	223.867.495	1.052.002	455.516.866	1.114.298	482.491.034	776.148	336.072.084	1.049.500	454.433.500	782.537	338.838.521	1.587.878	687.551.174
3.3	Alcantarilla Celular Simple de 2,00x2,00m	m	35,00	3.888.655	136.109.925	4.984.166	174.445.810	2.300.667	80.523.345	4.092.056	143.221.960	4.508.814	157.808.490	3.988.760	139.606.600	2.769.610	96.936.350	3.728.732	130.505.620	7.284.178	254.946.230
3.4	Alcantarilla Celular Doble de 1,00x1,00m	m	36,00	3.470.200	124.927.200	4.311.726	155.222.136	2.326.746	83.782.856	3.721.345	133.968.420	5.041.102	181.479.672	3.833.375	130.801.500	2.749.440	98.979.840	3.538.257	127.305.252	7.120.430	256.335.480
3.5	Alcantarilla Celular Doble de 2,50x2,50m	m	32,00	8.889.378	284.460.096	8.587.897	274.812.704	5.050.927	161.629.664	8.665.466	277.294.912	11.206.264	358.600.448	8.171.052	261.473.664	6.490.090	207.682.880	7.590.438	242.894.016	9.558.667	305.877.344
3.6	Alcantarilla Celular Triple de 2,00x2,00m	m	15,00	9.156.451	137.346.765	10.863.153	162.947.295	5.575.722	83.635.830	3.108.760	46.631.400	11.871.624	178.074.360	8.797.029	131.955.435	8.860.650	102.909.750	7.775.085	116.626.275	18.700.455	250.506.825
3.7	Alcantarilla Celular Triple de 2,50x2,50m	m	68,00	11.933.473	811.476.164	12.974.008	882.232.544	7.301.733	496.517.844	12.286.348	835.471.664	16.336.590	1.110.888.120	11.329.917	770.434.356	9.212.410	626.443.880	10.538.431	716.613.308	18.149.397	1.234.158.996
3.9	Cabeceras para Alcantarillas Celulares	m^3	276,38	2.915.754	805.856.091	2.326.226	642.922.342	1.810.783	500.464.206	3.126.299	864.046.518	1.612.347	445.620.464	2.038.270	563.337.063	2.070.240	572.172.931	1.964.358	542.908.711	1.482.384	409.701.290
3.10	Cordón de hormigón simple de 15x40cm	m	700,00	81.056	56.739.200	61.371	42.959.700	41.021	28.714.700	81.096	56.767.200	53.022	37.115.400	78.413	54.889.100	94.100	65.870.000	50.168	35.117.600	60.530	42.371.000
ITEM 4	OBRAS COMPLEMENTARIAS																				
4.1	Señalización horizontal	m^2	1.225,43	49.334	60.455.364	43.727	53.584.378	39.956	48.963.281	49.817	61.047.246	66.536	81.535.210	56.425	69.144.888	45.270	55.475.216	33.491	41.040.876	116.944	143.306.666
4.2	Señalización vertical	m^2	37,06	1.383.968	51.289.854	1.540.794	57.101.826	1.548.564	57.389.782	1.537.198	56.968.558	1.450.485	53.754.974	1.569.700	58.173.082	1.109.580	41.120.294	1.049.802	38.905.962	1.967.844	72.928.299
4.3	Tachones para cebradros	un	1.406,00	151.456	212.947.136	65.024	91.423.744	78.597	110.507.382	95.079	133.681.074	122.665	172.466.990	68.005	95.615.030	102.240	143.749.440	83.727	117.720.162	31.031	43.629.586
4.3.1	Tachas unidireccionales	un	206,00	31.403	6.469.018	35.464	7.305.584	25.785	5.311.710	21.350	4.398.100	33.981	7.000.086	24.183	4.981.698	22.950	4.727.700	28.338	5.837.628	39.446	8.125.876
4.3.2	Tachas bidireccionales	un	227,00	33.229	7.542.983	43.175	9.800.725	27.888	6.330.576	23.912	5.428.024	40.634	9.223.918	24.833	5.637.091	22.950	5.209.650	28.338	6.432.726	44.999	10.214.773
4.5	Barandas de defensa metálica	m	5.520,00	266.597	1.471.615.440	235.266	1.298.668.320	249.549	1.377.510.480	292.637	1.615.359.240	335.145	1.850.000.400	261.823	1.445.262.960	308.740	1.704.244.800	208.098	1.137.949.920	271.612	1.499.298.240
4.6	Alambrada nueva	m	10.000,00	199.813	1.998.130.000	22.261	222.610.000	21.310	213.100.000	56.934	569.340.000	54.506	545.060.000	31.286	312.860.000	47.410	474.100.000	27.759	277.590.000	22.919	229.190.000
4.7	Empastado	m^2	36.560,00	7.872	287.800.320	8.479	309.992.240	6.274	229.377.440	10.319	377.262.640	8.320	304.179.200	11.682	427.093.920	NO COTIZO ESTE ITEM		7.085	259.027.600	8.322	304.252.320
ITEM 5	SERVICIOS ESPECIALIZADOS																				
5.1	Servicios Especializados	gl	1,00	871.710.671	871.710.671	475.801.605	475.801.605	1.018.781.680	1.018.781.680	1.438.123.071	1.438.123.071	730.771.814	730.771.814	1.095.686.610	1.095.686.610	523.797.210	523.797.210	505.257.225	505.257.225	1.248.225.000	1.248.225.000
ITEM 6	MOVILIZACION TOTAL																				
6.1	Movilización	gl	1,00	1.243.030.693	1.243.030.693	558.937.546	558.937.546	514.316.000	514.316.000	1.154.760.499	1.154.760.499	1.044.706.097	1.044.706.097	1.120.679.354	1.120.679.354	1.104.032.910	1.104.032.910	515.240.000	515.240.000	1.192.125.000	1.192.125.000
	PRECIO TOTAL (IVA incluido)				**44.393.885.578**		**31.681.672.353**		**29.849.421.311**		**40.973.686.253**		**36.599.014.478**		**37.608.639.440**		**37.050.040.572**		**32.232.039.278**		**44.979.240.132**
	MONTO OFERTADO				44.393.885.578		31.611.023.426		29.849.532.755		40.973.686.253		36.599.014.478		37.608.639.442		37.050.040.572		32.232.039.277		44.979.240.132
	DIFERENCIA				0		70.648.927		-111.444		0		0		-2		0		1		0
	MOTIVO DE LA DIFERENCIA						TIENE ERRORES ARITMÉTICOS		TIENE ERRORES ARITMÉTICOS						DIFERENCIA POR REDONDEO				DIFERENCIA POR REDONDEO		

Ing. LUIS ARREGO

MINISTERIO DE OBRAS PUBLICAS Y COMUNICACIONES – Unidad Ejecutora de Proyectos – FOCEM – REPUBLICA DEL PARAGUAY

Ing. Eduardo M. Calderini C.
Coordinador General
UNE - FOCEM