MUNICIPALIDAD DE GENERAL RODRIGUEZ
PROVINCIA DE BUENOS AIRES

PROYECTO - COLECTOR PLUVIAL AV. BALBIN

COLECTOR PLUVIAL AV. BALBIN
MUNICIPALIDAD DE GENERAL RODRIGUEZ

PLAN DE TRABAJO

ITEM	RUBROS	Cantidad	Unidad	Precio Unitario	SUBTOTAL
1	**MOVIMIENTO DE SUELO**				
1.1	Excavación para condutos en general (incluye relleno y compactación)	50,636.72	m³	$ 529.67	$ 26,820,592.89
1.2	Excavación para caños de empalme (incluye rerreno y compactación)	2,419.85	m³	$ 618.55	$ 1,496,805.03
2	**TRANSPORTE DE SUELO SOBRANTE**				
2.1	Transporte suelo sobrante (Distancia media de transporte 50 Hm.)	2,777,581	Hmm3	$ 4.06	$ 11,283,567.60
3	**HORMIGÓN PARA CONDUCTOS**				
3.1	Hormigon H21	7866.44594	m³	$ 14,079.76	$ 110,757,667.4
4	**HORMIGÓN DE LIMPIEZA**				
4.1	H8	1882.7232	m³	$ 5,933.64	$ 11,171,409.08
5	**ACERO EN BARRAS PARA HORMIGÓN**				
5.1	ACERO TIPO III -ADN420	443138.078	kg	$ 94.96	$ 42,079,277.63
6	**CAÑERÍAS DE HORMIGON PREMOLDEADO**				
6.1	DN400 mm	1899	ml	$ 3,118.12	$ 5,921,315.13
6.2	DN500 mm	263	ml	$ 3,652.14	$ 960,513.84
6.3	DN600 mm	1349.3	ml	$ 4,629.60	$ 6,246,715.91
6.4	DN700 mm	300.39	ml	$ 5,651.01	$ 1,697,508.34
6.5	DN800 mm	2390.82	ml	$ 7,303.87	$ 17,462,231.15
6.6	C.R. 600 X 600 mm	3510.06	ml	$ 8,303.89	$ 29,147,165.00
6.7	C.R. 1000 X 800 mm	1608.38	ml	$ 9,404.34	$ 15,125,753.84
6.8	Tapas p/ C.R. 600 x 600 mm (cruces calle e ingresos vehiculares)	2106.036	ml	$ 2,760.18	$ 5,813,047.67
6.9	Tapas p/ C.R. 1000 x 800 mm (cruces calle e ingresos vehiculares)	1540.38	ml	$ 4,083.71	$ 6,290,467.81
7	**ALCANTARILLAS PARA CALLES URBANAS**				
7.1	Alcantarillas DN600 mm	1,440.00	ml	$ 4,629.60	$ 6,666,620.40
8	**SUMIDEROS PARA CALLES DE TIERRA**				
8.1	SP(Ø 0,50m.)	235.00	un	$ 19,689.04	$ 4,626,923.91
8.2	SP2(Ø 0,50m.)	78.00	un	$ 23,651.41	$ 1,844,810.09
9	**SUMIDEROS PARA CALLES PAVIMENTADAS**				
9.1	S2 (Ø=0,40m.)	80.00	un	$ 32,634.41	$ 2,610,753.20
10	**CÁMARAS DE INSPECCIÓN**				
10.1	Cámaras de Inspección TIPO A	126	un	$ 36,301.75	$ 4,574,020.53
10.2	Cámaras para Conducto Rectangular C.I.C.R.	59	un	$ 28,795.33	$ 1,698,924.37
11	**OBRAS VIALES**				
11.1	Rotura y reconstrucción pavimento de hormigón	1,286.25	m²	$ 3,520.40	$ 4,528,109.68
11.1	Rotura y reconstrucción pavimento de hormigón Av. Balbín e/ Caseros y Can	3,528.00	m²	$ 3,520.40	$ 12,419,957.97
11.2	Pavimentos nuevos con cordón cuneta (Av. Balbín)	16,464.00	m²	$ 2,863.24	$ 47,140,435.50
12	**VEREDAS**				
12.1	Reconstrucción de Veredas	2,100.00	m²	$ 927.99	$ 1,948,778.65
12.2	Veredas nuevas hormigón peinado Av. Balbín	5,420.80	m²	$ 604.41	$ 3,276,371.69
13	**BARANDAS PARA PROTECCIÓN LATERAL DE CANALES**				
13.1	Barandas para protección	6,180.00	ml	$ 1,069.14	$ 6,607,282.09
14	**PUENTES PEATONALES**				
14.1	Puente Peatonal AC = 1,5 METROS (luz 7 mts)	16	u	$ 94,668.95	$ 1,514,703.22
15	**TUNEL LINNER AUTOPISTA DEL OESTE**				
15.1	Tunnel Linner 2 x DN1000mm	2.00	u	$ 6,998,553.17	$ 13,997,106.34
16	**PROYECTO EJECUTIVO**				
					$ 6,339,513.06
17	**INICIO Y MOVILIZACION DE OBRA**				
					$ 10,565,855.10
					$ 422,634,204.14

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PLAN DE TRABAJOS

MESES	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
		2.5%	5%	7.5%	10%	10%	10%	10%	10%	10%	10%	5%	5%	5%		100%
		$ 670,514.82	$ 1,341,029.64	$ 2,011,544.47	$ 2,682,059.29	$ 2,682,059.29	$ 2,682,059.29	$ 2,682,059.29	$ 2,682,059.29	$ 2,682,059.29	$ 2,682,059.29	$ 1,341,029.64	$ 1,341,029.64	$ 1,341,029.64		$ 26,820,592.89
					5%	10%	15%	15%	15%	10%	10%	10%	5%	5%		100%
					$ 74,840.25	$ 149,680.50	$ 224,520.76	$ 224,520.76	$ 224,520.76	$ 149,680.50	$ 149,680.50	$ 149,680.50	$ 74,840.25	$ 74,840.25		$ 1,496,805.03
			7.5%	7.5%	10%	10%	10%	10%	10%	10%	10%	5%	5%	5%		100%
		$ 846,267.57	$ 846,267.57	$ 1,128,356.76	$ 1,128,356.76	$ 1,128,356.76	$ 1,128,356.76	$ 1,128,356.76	$ 1,128,356.76	$ 1,128,356.76	$ 1,128,356.76	$ 564,178.38	$ 564,178.38	$ 564,178.38		$ 11,283,567.60
						10%	10%	20%	20%	20%	10%	10%				100%
						$ 11,075,766.74	$ 11,075,766.74	$ 22,151,533.48	$ 22,151,533.48	$ 22,151,533.48	$ 11,075,766.74	$ 11,075,766.74				$ 110,757,667.4
						10%	10%	20%	20%	20%	10%	10%				100%
						$ 1,117,140.91	$ 1,117,140.91	$ 2,234,281.82	$ 2,234,281.82	$ 2,234,281.82	$ 1,117,140.91	$ 1,117,140.91				$ 11,171,409.08
						10%	10%	20%	20%	20%	10%	10%				100%
						$ 4,207,927.76	$ 4,207,927.76	$ 8,415,855.53	$ 8,415,855.53	$ 8,415,855.53	$ 4,207,927.76	$ 4,207,927.76				$ 42,079,277.63
					5%	5%	10%	10%	20%	20%	10%	10%	5%	5%		100%
				$	296,065.76	$ 296,065.76	$ 592,131.51	$ 592,131.51	$ 1,184,263.03	$ 1,184,263.03	$ 592,131.51	$ 592,131.51	$ 296,065.76	$ 296,065.76		$ 5,921,315.13
					5%	5%	10%	10%	20%	20%	10%	10%	5%	5%		100%
				$	48,025.69	$ 48,025.69	$ 96,051.38	$ 96,051.38	$ 192,102.77	$ 192,102.77	$ 96,051.38	$ 96,051.38	$ 48,025.69	$ 48,025.69		$ 960,513.84
					10%	10%	20%	20%	20%	10%	10%					100%
				$	624,671.59	$ 624,671.59	$ 1,249,343.18	$ 1,249,343.18	$ 1,249,343.18	$ 624,671.59	$ 624,671.59					$ 6,246,715.91
					10%	10%	20%	20%	20%	10%	10%					100%
				$	169,750.83	$ 169,750.83	$ 339,501.67	$ 339,501.67	$ 339,501.67	$ 169,750.83	$ 169,750.83					$ 1,697,508.34
					10%	10%	20%	20%	20%	10%	10%					100%
				$	1,746,223.11	$ 1,746,223.11	$ 3,492,446.23	$ 3,492,446.23	$ 3,492,446.23	$ 1,746,223.11	$ 1,746,223.11					$ 17,462,231.15
			5%	10%	15%	20%	20%	15%	10%	5%						100%
		$	1,457,358.25	$ 2,914,716.50	$ 4,372,074.75	$ 5,829,433.00	$ 5,829,433.00	$ 4,372,074.75	$ 2,914,716.50	$ 1,457,358.25						$ 29,147,165.00
			5%	10%	15%	20%	20%	15%	10%	5%						100%
		$	756,287.69	$ 1,512,575.38	$ 2,268,863.08	$ 3,025,150.77	$ 3,025,150.77	$ 2,268,863.08	$ 1,512,575.38	$ 756,287.69						$ 15,125,753.84
			5%	10%	15%	20%	20%	15%	10%	5%						100%
		$	290,652.38	$ 581,304.77	$ 871,957.15	$ 1,162,609.53	$ 1,162,609.53	$ 871,957.15	$ 581,304.77	$ 290,652.38						$ 5,813,047.67
			5%	10%	15%	20%	20%	15%	10%	5%						100%
		$	314,523.39	$ 629,046.78	$ 943,570.17	$ 1,258,093.56	$ 1,258,093.56	$ 943,570.17	$ 629,046.78	$ 314,523.39						$ 6,290,467.81
			5%	5%	10%	10%	10%	10%	10%	10%	10%	5%	5%	5%	5%	100%
		$	333,331.02	$ 333,331.02	$ 666,662.04	$ 666,662.04	$ 666,662.04	$ 666,662.04	$ 666,662.04	$ 666,662.04	$ 666,662.04	$ 333,331.02	$ 333,331.02	$ 333,331.02	$ 333,331.02	$ 6,666,620.40
					5%	5%	10%	10%	20%	20%	10%	10%	5%	5%		100%
				$	231,346.20	$ 231,346.20	$ 462,692.39	$ 462,692.39	$ 925,384.78	$ 925,384.78	$ 462,692.39	$ 462,692.39	$ 231,346.20	$ 231,346.20		$ 4,626,923.91
					5%	5%	10%	10%	20%	20%	10%	10%	5%	5%		100%
				$	92,240.50	$ 92,240.50	$ 184,481.01	$ 184,481.01	$ 368,962.02	$ 368,962.02	$ 184,481.01	$ 184,481.01	$ 92,240.50	$ 92,240.50		$ 1,844,810.09
					5%	5%	10%	10%	20%	20%	10%	10%	5%	5%		100%
				$	130,537.66	$ 130,537.66	$ 261,075.32	$ 261,075.32	$ 522,150.64	$ 522,150.64	$ 261,075.32	$ 261,075.32	$ 130,537.66	$ 130,537.66		$ 2,610,753.20
					5%	5%	10%	10%	20%	20%	10%	10%	5%	5%		100%
				$	228,701.03	$ 228,701.03	$ 457,402.05	$ 457,402.05	$ 914,804.11	$ 914,804.11	$ 457,402.05	$ 457,402.05	$ 228,701.03	$ 228,701.03		$ 4,574,020.53
					5%	5%	10%	10%	20%	20%	10%	10%	5%	5%		100%
				$	84,946.22	$ 84,946.22	$ 169,892.44	$ 169,892.44	$ 339,784.87	$ 339,784.87	$ 169,892.44	$ 169,892.44	$ 84,946.22	$ 84,946.22		$ 1,698,924.37
								5%	10%	10%	20%	20%	10%	10%	5%	100%
							$	226,405.48	$ 452,810.97	$ 452,810.97	$ 905,621.94	$ 905,621.94	$ 905,621.94	$ 452,810.97	$ 226,405.48	$ 4,528,109.68
								5%	10%	10%	20%	20%	20%	10%	5%	100%
							$	620,997.90	$ 1,241,995.80	$ 1,241,995.80	$ 2,483,991.59	$ 2,483,991.59	$ 2,483,991.59	$ 1,241,995.80	$ 620,997.90	$ 12,419,957.97
								5%	10%	10%	20%	20%	20%	10%	5%	100%
							$	2,357,021.77	$ 4,714,043.55	$ 4,714,043.55	$ 9,428,087.10	$ 9,428,087.10	$ 9,428,087.10	$ 4,714,043.55	$ 2,357,021.77	$ 47,140,435.50
								5%	10%	10%	20%	20%	20%	10%	5%	100%
							$	97,438.93	$ 194,877.87	$ 194,877.87	$ 389,755.73	$ 389,755.73	$ 389,755.73	$ 194,877.87	$ 97,438.93	$ 1,948,778.65
								5%	10%	10%	20%	20%	20%	10%	5%	100%
							$	163,818.58	$ 327,637.17	$ 327,637.17	$ 655,274.34	$ 655,274.34	$ 655,274.34	$ 327,637.17	$ 163,818.58	$ 3,276,371.69
											20%	30%	30%	20%		100%
										$	1,321,456.42	$ 1,982,184.63	$ 1,982,184.63	$ 1,321,456.42		$ 6,607,282.09
											20%	20%	20%	20%	20%	100%
										$	302,940.64	$ 302,940.64	$ 302,940.64	$ 302,940.64	$ 302,940.64	$ 1,514,703.22
		5%							20%	40%	20%	15%				100%
	$	699,855.32						$	2,799,421.27	$ 5,598,842.54	$ 2,799,421.27	$ 2,099,565.95				$ 13,997,106.34
	50%	50%														100%
	$ 3,169,756.53	$ 3,169,756.53														$ 6,339,513.06
	25%	25%	25%	25%												100%
	$ 2,641,463.78	$ 2,641,463.78	$ 2,641,463.78	$ 2,641,463.78												$ 10,565,855.10
CERTIFICACION MENSUAL	$ 5,811,220.31	$ 7,181,590.45	$ 7,980,913.73	$ 11,470,250.27	$ 16,660,892.08	$ 35,955,389.46	$ 39,682,738.31	$ 56,730,434.68	$ 62,400,443.01	$ 59,765,556.77	$ 44,078,514.68	$ 39,260,202.99	$ 19,573,098.32	$ 11,981,004.76	$ 4,101,954.34	**$ 422,634,204.1**
CERTIFICACION ACUMULADA	$ 5,811,220.31	$ 12,992,810.75	$ 20,973,724.48	$ 32,443,974.75	$ 49,104,866.83	$ 85,060,256.29	$ 124,742,994.6	$ 181,473,429.3	$ 243,873,872.3	$ 303,639,429.1	$ 347,717,943.7	$ 386,978,146.7	$ 406,551,245.0	$ 418,532,249.8	$ 422,634,204.1	**$ -**