

10.00 TRANSPORTE

10.01 TRANSPORTE DE MATERIAL PARA AFIRMADO D<=1 Km.

10.02 TRANSPORTE DE MATERIAL PARA AFIRMADO D>1 Km.

ITEM	PROGRESIVA		Espesor (m)	Ancho de Calzada (m)	Area Sub Base (m2)	Volumen SubBase (m3)	Volumen Total esp 30% (m3)
	Inicio	Final					
SUB BASE	0+0.00	1+000.00	0.20	5.80	5,800.00	1,160.00	1,508.00
	1+000.00	2+000.00	0.20	5.80	5,800.00	1,160.00	1,508.00
	2+000.00	3+000.00	0.20	5.80	5,800.00	1,160.00	1,508.00
	3+000.00	3+480.58	0.20	5.80	2,787.36	557.47	724.71
	3+480.58	4+000.00	0.20	5.80	3,012.64	602.53	783.29
	4+000.00	4+020.38	0.20	5.80	118.20	23.64	30.73
	4+020.38	4+077.80	0.20	8.20	470.84	94.17	122.42
	4+077.80	4+347.24	0.20	10.40	2,802.18	560.44	728.57
	4+347.24	6+370.50	0.20	8.20	16,590.73	3,318.15	4,313.59
	6+370.50	7+000.00	0.20	10.40	6,546.80	1,309.36	1,702.17
	7+000.00	8+000.00	0.20	10.40	10,400.00	2,080.00	2,704.00
	9+000.00	9+115.82	0.20	10.40	1,204.53	240.91	313.18
	9+115.82	10+000.00	0.20	9.40	8,311.29	1,662.26	2,160.94
	10+000.00	10+986.80	0.20	9.40	9,275.92	1,855.18	2,411.74
	10+986.80	11+000.00	0.20	10.40	137.28	27.46	35.69
	11+000.00	12+000.00	0.20	10.40	10,400.00	2,080.00	2,704.00
	12+000.00	13+000.00	0.20	10.40	10,400.00	2,080.00	2,704.00
	13+000.00	13+489.60	0.20	10.40	5,091.84	1,018.37	1,323.88
	13+489.60	14+000.00	0.20	8.60	4,389.44	877.89	1,141.25
	14+000.00	15+000.00	0.20	8.60	8,600.00	1,720.00	2,236.00
	15+000.00	15+962.32	0.20	8.60	8,275.95	1,655.19	2,151.75
	15+962.32	16+000.00	0.20	8.60	324.05	64.81	84.25
	16+000.00	17+000.00	0.20	8.60	8,600.00	1,720.00	2,236.00
	17+000.00	18+000.00	0.20	8.60	8,600.00	1,720.00	2,236.00
	18+000.00	19+000.00	0.20	8.60	8,600.00	1,720.00	2,236.00
	19+000.00	20+000.00	0.20	8.60	8,600.00	1,720.00	2,236.00
	20+000.00	21+000.00	0.20	8.60	8,600.00	1,720.00	2,236.00
	21+000.00	22+022.02	0.20	8.60	8,789.37	1,757.87	2,285.24
TOTAL						35,665.69	46,365.39

RELACION DE CANTERAS

CANTERA	B-1	B-2	B-3	B-4
UBICACIÓN	8+803.00	20+500.00	0+000.00	0+000.00
ACCESO (Km.)			-	
Influencia (Km.)	15+401.50	10+250.00	0+0.00	0+0.00



Christian R. Alvarez Padilla
INGENIERO CIVIL
CIP. Nº 107015

10.00 TRANSPORTE

10.01 TRANSPORTE DE MATERIAL PARA AFIRMADO $D \leq 1$ Km.

10.02 TRANSPORTE DE MATERIAL PARA AFIRMADO $D > 1$ Km.

ITEM	PROGRESIVA		Espesor (m)	Ancho de Calzada (m)	Area Sub Base (m ²)	Volumen SubBase (m ³)	Volumen Total esp 30% (m ³)
	Inicio	Final					
BASE	0+0.00	1+000.00	0.20	5.80	5,800.00	1,160.00	1,508.00
	1+000.00	2+000.00	0.20	5.80	5,800.00	1,160.00	1,508.00
	2+000.00	3+000.00	0.20	5.80	5,800.00	1,160.00	1,508.00
	3+000.00	3+480.58	0.20	5.80	2,787.36	557.47	724.71
	3+480.58	4+000.00	0.20	5.80	3,012.64	602.53	783.29
	4+000.00	4+020.38	0.20	5.80	118.20	23.64	30.73
	4+020.38	4+077.80	0.20	8.20	470.84	94.17	122.42
	4+077.80	4+347.24	0.20	10.40	2,802.18	560.44	728.57
	4+347.24	6+370.50	0.20	8.20	16,590.73	3,318.15	4,313.59
TOTAL						8,636.39	11,227.31

RELACION DE CANTERAS

CANTERA	B-1	B-2	B-3	B-4
UBICACIÓN	8+803.00	20+500.00	0+000.00	0+000.00
ACCESO (Km.)			-	
Influencia (Km.)	15+401.50	10+250.00	0+0.00	0+0.00


 Christian R. Alvarez Paitampoma
 INGENIERO CIVIL
 CIP. N° 107015

10.00 TRANSPORTE

10.01 TRANSPORTE DE MATERIAL PARA AFIRMADO $D \leq 1$ Km.

10.02 TRANSPORTE DE MATERIAL PARA AFIRMADO $D > 1$ Km.

ITEM	PROGRESIVA		Espesor (m)	Ancho de Calzada (m)	Area Sub Base (m ²)	Volumen SubBase (m ³)	Volumen Total esp 30% (m ³)
	Inicio	Final					
SUB BASE	0+0.00	1+000.00	0.30	5.80	5,800.00	1,740.00	2,262.00
	1+000.00	2+000.00	0.30	5.80	5,800.00	1,740.00	2,262.00
	2+000.00	3+000.00	0.30	5.80	5,800.00	1,740.00	2,262.00
	3+000.00	3+480.58	0.30	5.80	2,787.36	836.21	1,087.07
	3+480.58	4+000.00	0.30	5.80	3,012.64	903.79	1,174.93
	4+000.00	4+020.38	0.30	5.80	118.20	35.46	46.10
	4+020.38	4+077.80	0.30	8.20	470.84	141.25	183.63
	4+077.80	4+347.24	0.30	10.40	2,802.18	840.65	1,092.85
	4+347.24	6+370.50	0.30	8.20	16,590.73	4,977.22	6,470.39
TOTAL						12,954.59	16,840.96

RELACION DE CANTERAS

CANTERA	B-1	B-2	B-3	B-4
UBICACIÓN	8+803.00	20+500.00	0+000.00	0+000.00
ACCESO (Km.)			-	
Influencia (Km.)	15+401.50	10+250.00	0+0.00	0+0.00



Christian R. Alvarez Poltampoma
INGENIERO CIVIL
CIP No 107015