QUADRO DE ALINHAMENTO HORIZONTAL – FERROVIA

DEFLEXÃO	CURVA N°	CURVA DE TRANSIÇÃO					CURVA CIRCULAR				ESTACAS				COORDENADAS						
		Lc (m)	Tl (m)	Tc (m)	Xc (m)	Yc (m)	R (m)	D (m)	T (m)	AC	TE/PC/PI	EC	CE	ET/PT	PONTO	CC	TE/PC	EC	PI	CE	ET/PT
	INICIAL										631+593,000				N				9429125,1844		
															E				801781,5221		
17°27'0,004"	1	40,000	26,667	13,334	39,999	0,155	1720,000	483,879	243,548	16°07'0,007"	631+723,796	631+763,796	632+247,675	632+287,675	N	9430846,8068	9429126,6519	9429127,2557	9429129,8381	9429205,7634	9429218,0390
															E	801650,0339	801650,7344	801610,7392	801366,7628	801134,8867	801096,8171
	FINAL										635+500,000				N				9430215,7158		
															E				798043,3484		

QUADRO DE ALINHAMENTO HORIZONTAL – ESTRADA DE SERVIÇO

DEFLEXÃO	CURVA N°	CURVA CIRCULAR				ESTACAS		COORDENADAS				
		R (m)	D (m)	T (m)	AC	PC/PI	PT	PONTO	CC	PC	PI	PT
	INICIAL					1632+280,000		N			9429202,7341	
								E			801102,7866	
02°09'0,039"	C1	600,000	22,627	11,315	02°09'0,039"	1632+367,200	1632+389,827	N	9429803,4553	9429226,8425	9429229,9708	9429233,5068
								E	801184,8707	801018,9860	801008,1121	800997,3640
03°52'0,003"	C2	500,000	33,750	16,881	03°52'0,003"	1632+831,446	1632+865,196	N	9429846,4748	9429371,5177	9429376,7933	9429383,1385
								E	800734,1192	800577,8637	800561,8279	800546,1845
03°59'0,002"	C3	300,000	20,860	10,434	03°59'0,002"	1632+942,261	1632+963,121	N	9429134,1031	9429412,1049	9429416,0268	9429419,2675
								E	800362,0095	800474,7704	800465,1012	800455,1829
06°34'0,053"	C4	200,000	22,973	11,499	06°34'0,053"	1633+63,902	1633+86,876	N	9429260,4584	9429450,5680	9429454,1394	9429456,4345
								E	800297,2696	800359,3852	800348,4546	800337,1867
06°50'0,048"	C5	200,000	23,899	11,964	06°50'0,048"	1633+117,879	1633+141,778	N	9429658,5983	9429462,6222	9429465,0101	9429468,7784
								E	800346,7244	800306,8074	800295,0841	800283,7291
08°52'0,054"	C6	150,000	23,252	11,650	08°52'0,054"	1633+654,393	1633+677,645	N	9429772,6048	9429630,2399	9429633,9092	9429639,2416
								E	799844,4534	799797,2070	799786,1504	799775,7930
09°08'0,049"	C7	150,000	23,947	11,999	09°08'0,049"	1633+677,645	1633+701,592	N	9429505,8784	9429639,2416	9429644,7340	9429648,4606
								E	799707,1325	799775,7930	799765,1248	799753,7192
12°34'0,007"	C8	80,000	17,549	8,810	12°34'0,007"	1633+743,287	1633+760,836	N	9429585,3662	9429661,4101	9429664,1462	9429664,9945
								E	799689,2402	799714,0864	799705,7121	799696,9430
12°31'0,054"	C9	80,000	17,497	8,784	12°31'0,054"	1633+760,836	1633+778,333	N	9429744,6228	9429664,9945	9429665,8403	9429668,5629
								E	799704,6459	799696,9430	799688,2001	799679,8490
13°03'0,023"	C10	80,000	18,230	9,155	13°03'0,023"	1634+207,744	1634+225,975	N	9429877,7235	9429801,6635	9429804,5012	9429809,2318
								E	799296,3836	799271,5867	799262,8828	799255,0450
13°01'0,010"	C11	80,000	18,178	9,129	13°01'0,010"	1634+225,975	1634+244,153	N	9429740,7400	9429809,2318	9429813,9488	9429816,7839
								E	799213,7063	799255,0450	799247,2296	799238,5525
07°34'0,025"	C12	100,000	13,218	6,619	07°34'0,025"	1634+426,782	1634+440,000	N	9429778,4495	9429873,5043	9429875,5599	9429876,7684
								E	799033,8975	799064,9553	799058,6638	799052,1562
	FINAL					1634+440,000		N			9429876,7684	
								E			799052,1562	

NOTAS

N° SUB-CONTRATADA
C0538-42-FE-2-GE-DE-107-R0B

DOCUMENTOS DE REFERÊNCIA

REV.	T.E.	DESCRIÇÃO	PROJ.	DES.	VER.	APR.	DATA
0	C	PARA CONHECIMENTO	ROD	FLA	RC	MS	10/08/09
A	B	EMISSÃO INICIAL	ROD	FLA	RC	MS	05/08/09

REVISÕES

T.E. TIPO DE EMISSÃO: (A) PRELIMINAR (B) PARA APROVAÇÃO (C) PARA CONHECIMENTO (D) PARA COTAÇÃO (E) PARA CONSTRUÇÃO (F) CONFORME COMPRADO (G) CONFORME CONSTRUÍDO (H) CANCELADO

VALE

RESP. ODEBRECHT

PROJ. PLANSERVI ENGENHARIA

PROGRAMA CAPACITACAO LOGISTICA NORTE | N1030-02

FERROVIA – KM 541,05 A KM 891,361
LOCACAO 42 – KM 631,593 A KM 635,500
GEOMETRICO
QUADRO DE ALINHAMENTO HORIZONTAL

ESCALA	SE	N° CONTRATADA	N° VALE	REVISÃO
IND.	–	DE0-4200-B02-8415	252K-B-08415	0