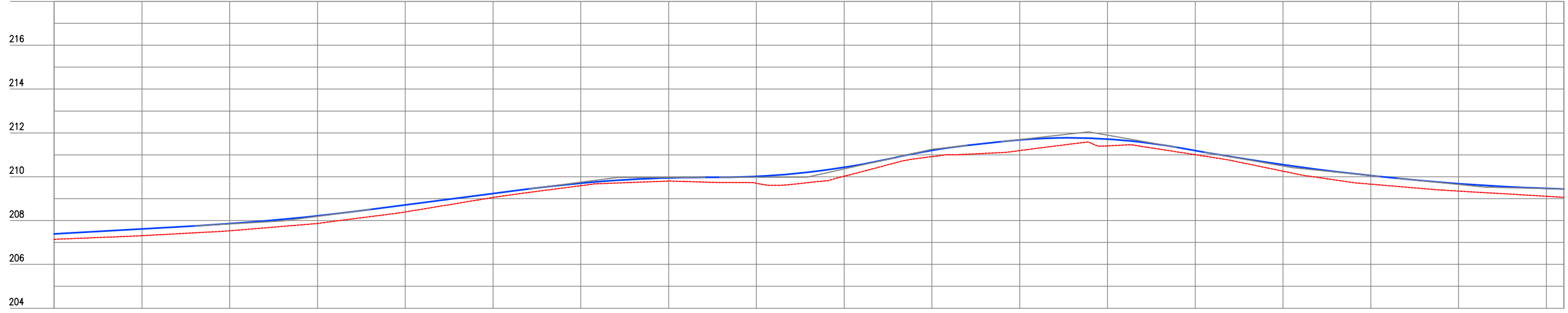


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0 1000 2000

ESTRADA



Estaca	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
Cota do terreno	207,145	207,311	207,534	207,870	208,393	209,053	209,591	209,802	209,702	210,023	210,917	211,195	211,408	211,004	210,253	209,660	209,345	209,109	209,062
Cota da terraplenagem	207,295	207,622	207,580	208,217	208,710	209,230	209,706	209,546	210,014	210,429	211,205	211,682	211,718	211,193	210,549	210,053	209,684	209,464	209,439
Cota vermelha	0,250	0,310	0,326	0,347	0,317	0,177	0,114	0,145	0,312	0,407	0,288	0,487	0,309	0,188	0,296	0,393	0,339	0,355	0,377

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PREFEITURA MUNICIPAL DE MILHÃ - CE

ADEQUAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE MILHÃ / CE

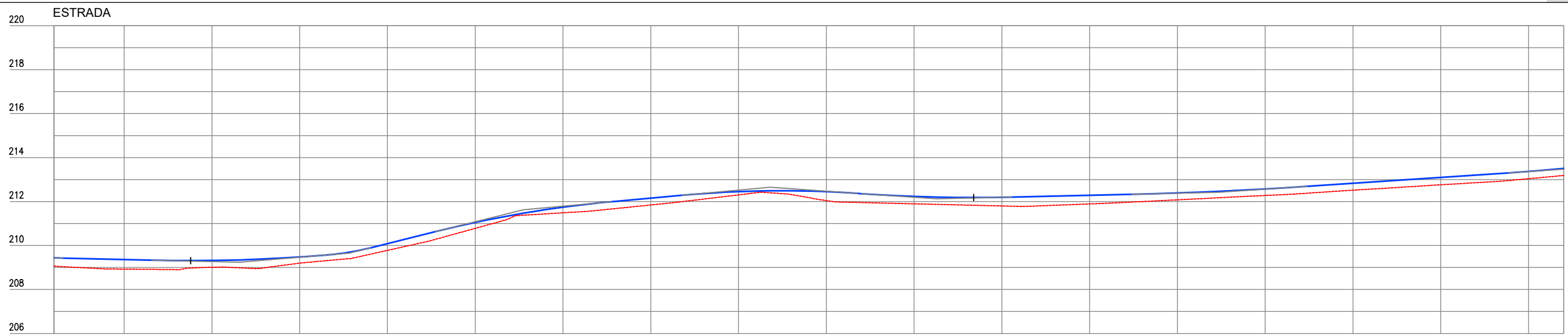
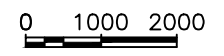
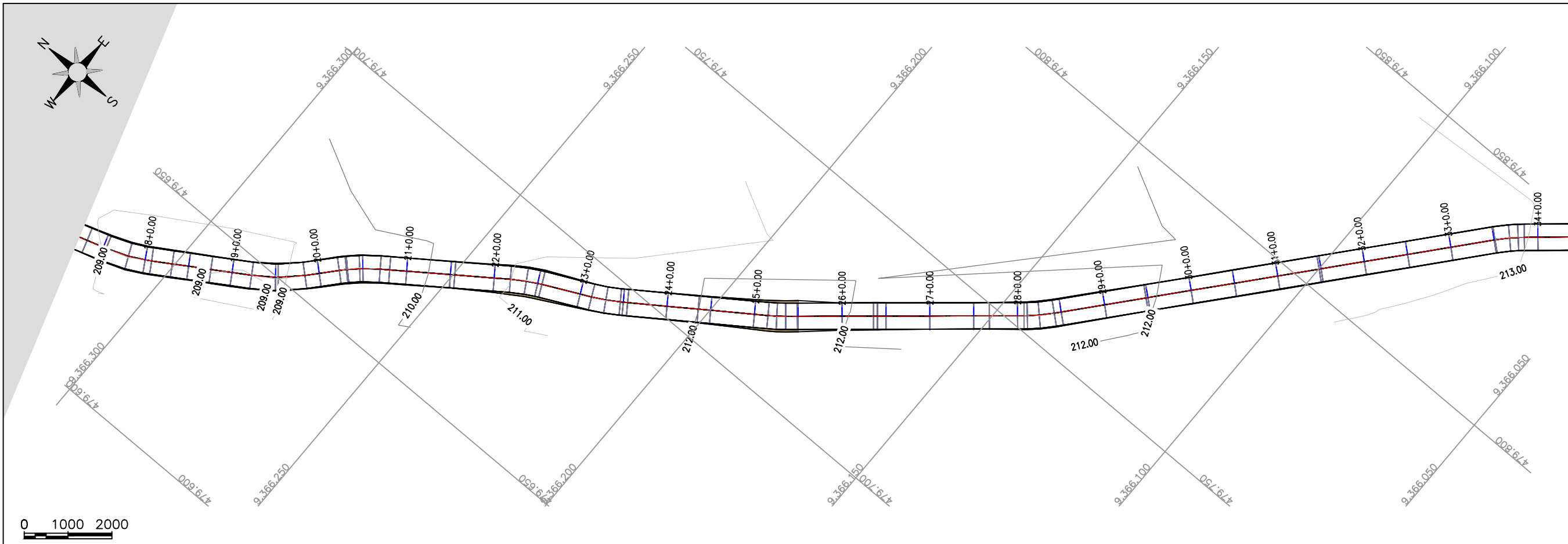
SÍTIO CIPÓ - ESTAQUEAMENTO E PERFIL LONGITUDINAL

PROJETISTA: ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE

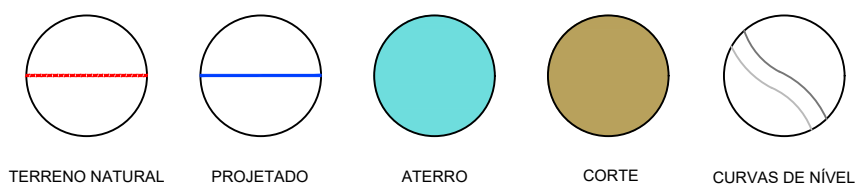
ARQUIVO: MILHÃ_SÍTIO CIPÓ_GEO_R0.DWG

PRANCHA: 1 / 12

ESCALA: 1/1000



Estaca	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	34
Cota do terreno	209,062	208,927	209,012	209,199	209,778	210,781	211,488	211,844	212,303	212,044	211,897	211,799	211,892	212,078	212,276	212,517	212,764	213,039	213,166
Cota da terraplenagem	209,439	209,362	209,317	209,476	210,087	211,050	211,745	212,156	212,452	212,450	212,232	212,193	212,286	212,392	212,574	212,831	213,099	213,370	213,503
Cota vermelha	0,377	0,435	0,306	0,276	0,309	0,270	0,257	0,312	0,149	0,406	0,335	0,394	0,394	0,314	0,298	0,315	0,335	0,331	0,317

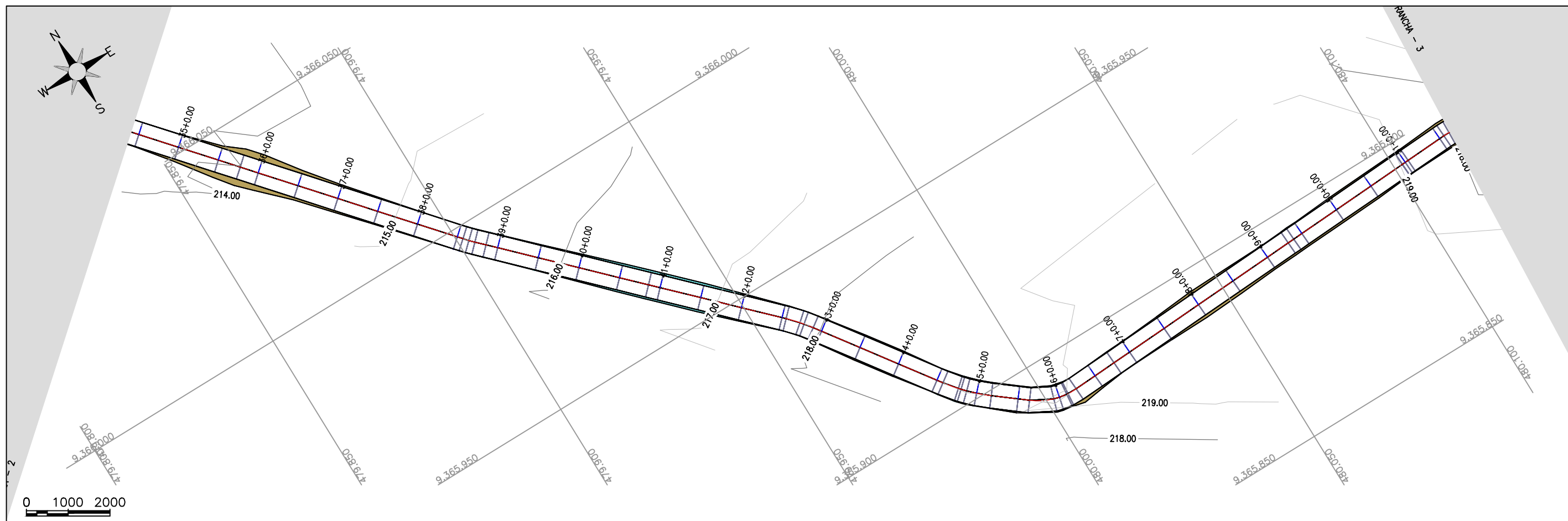


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PREFEITURA MUNICIPAL DE MILHÃ - CE
 ADEQUAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE MILHÃ / CE
SÍTIO CIPÓ - ESTAQUEAMENTO E PERFIL LONGITUDINAL
 PROJETA: ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE
 ARQUIVO: MILHÃ_SÍTIO CIPÓ_GEO_R0.DWG

PRANCHA:
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 ESCALA:
1/1000



ESTRADA



Estaca	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	51
Cota do terreno	213,186	213,594	214,276	214,704	215,129	215,613	216,093	216,567	217,242	218,011	218,506	218,437	219,080	219,141	219,530	219,321	219,394	219,909	218,045
Cota da terraplenagem	213,503	213,749	214,277	214,851	215,426	216,000	216,577	217,156	217,740	218,316	218,709	218,855	219,230	219,528	219,555	219,581	219,527	219,148	218,142
Cota vertical	0,317	0,155	0,001	0,147	0,297	0,387	0,485	0,591	0,499	0,304	0,202	0,418	0,150	0,367	0,025	0,260	0,134	0,239	0,097

Legend for the profile and plan view:

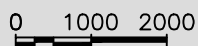
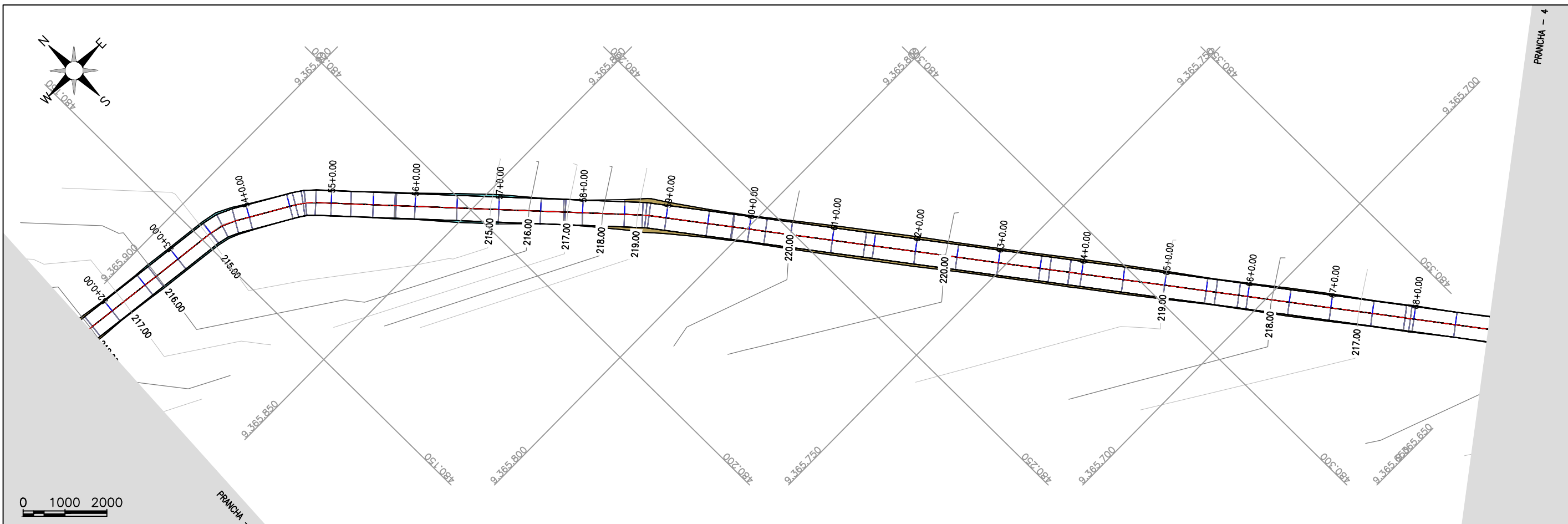
- TERRENO NATURAL (Natural ground)
- PROJETADO (Proposed road)
- ATERRO (Fill)
- CORTE (Cut)
- CURVAS DE NÍVEL (Level curves)

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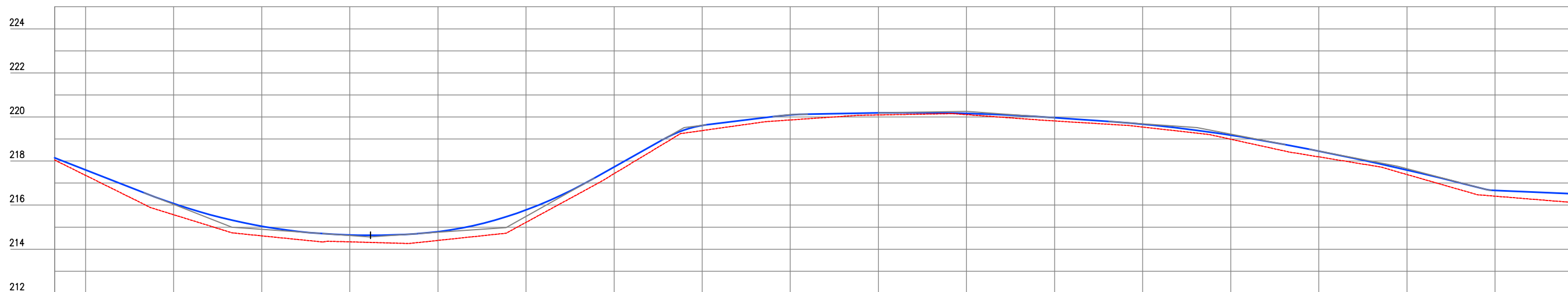


PREFEITURA MUNICIPAL DE MILHÃ - CE
 ADEQUAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE MILHÃ / CE
SÍTIO CIPÓ - ESTAQUEAMENTO E PERFIL LONGITUDINAL
 PROJETA: ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE
 ARQUIVO: MILHÃ_SÍTIO CIPÓ_GEO_R0.DWG

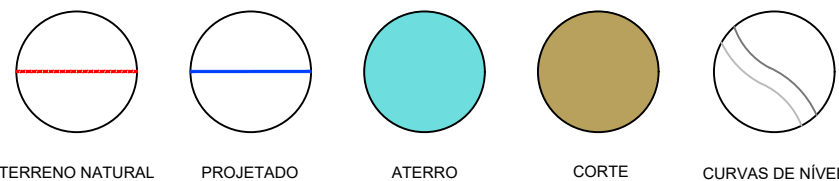
PRANCHA:
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 ESCALA:
 1/1000



ESTRADA



Cota vermelha	Cota da terraplenagem	Cota do terreno	Estaca
0,097	218,142	218,045	51
0,243	217,595	217,352	52
0,504	216,067	215,564	53
0,437	215,041	214,804	54
0,313	214,645	214,332	55
0,395	214,791	214,396	56
0,563	215,779	215,216	57
0,305	217,731	217,426	58
0,233	219,615	219,382	59
0,229	220,093	219,864	60
0,091	220,182	220,091	61
0,056	220,163	220,107	62
0,150	219,969	219,819	63
0,126	219,670	219,544	64
0,183	219,173	218,989	65
0,259	218,448	218,189	66
0,206	217,593	217,388	67
0,261	216,666	216,405	68
0,400	216,512	216,112	68

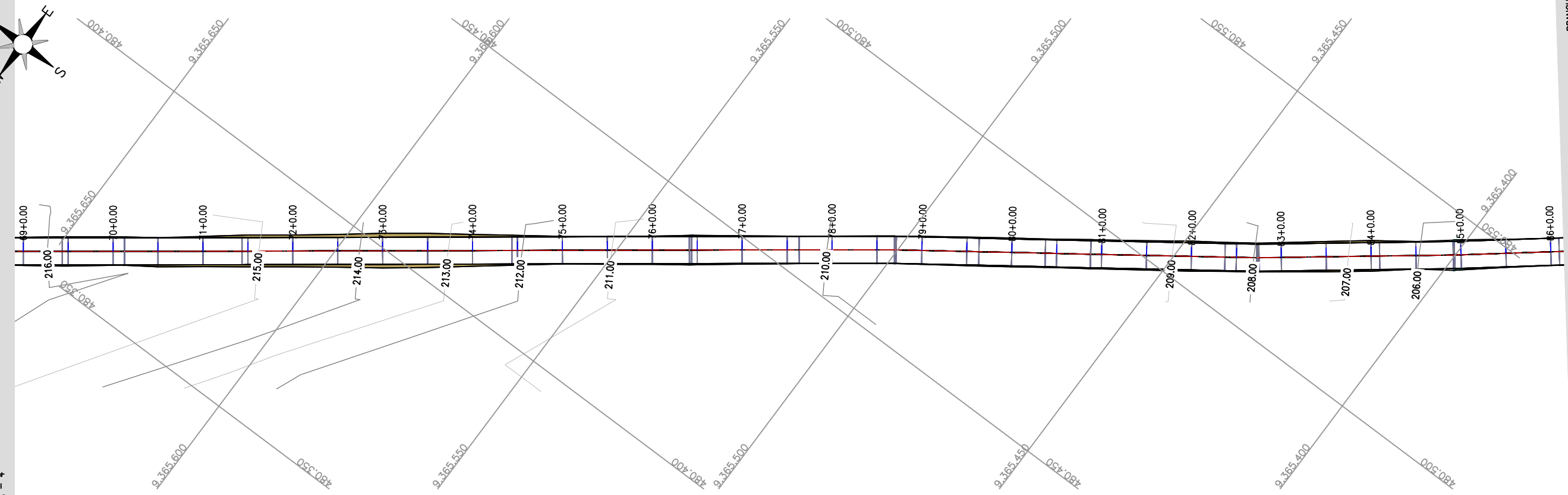
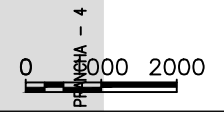
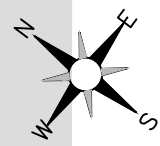


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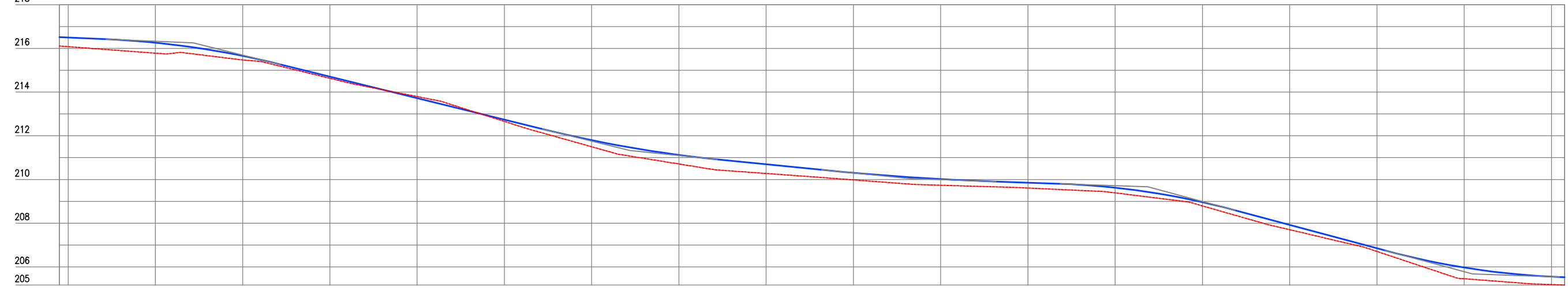
PREFEITURA MUNICIPAL DE MILHÃ - CE
 ADEQUAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE MILHÃ / CE
SÍTIO CIPÓ - ESTAQUEAMENTO E PERFIL LONGITUDINAL
 PROJETA: ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE
 ARQUIVO: MILHÃ_SÍTIO CIPÓ_GEO_R0.DWG

PRANCHA:
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 ESCALA:
1/1000



PRANCHA - 5

ESTRADA



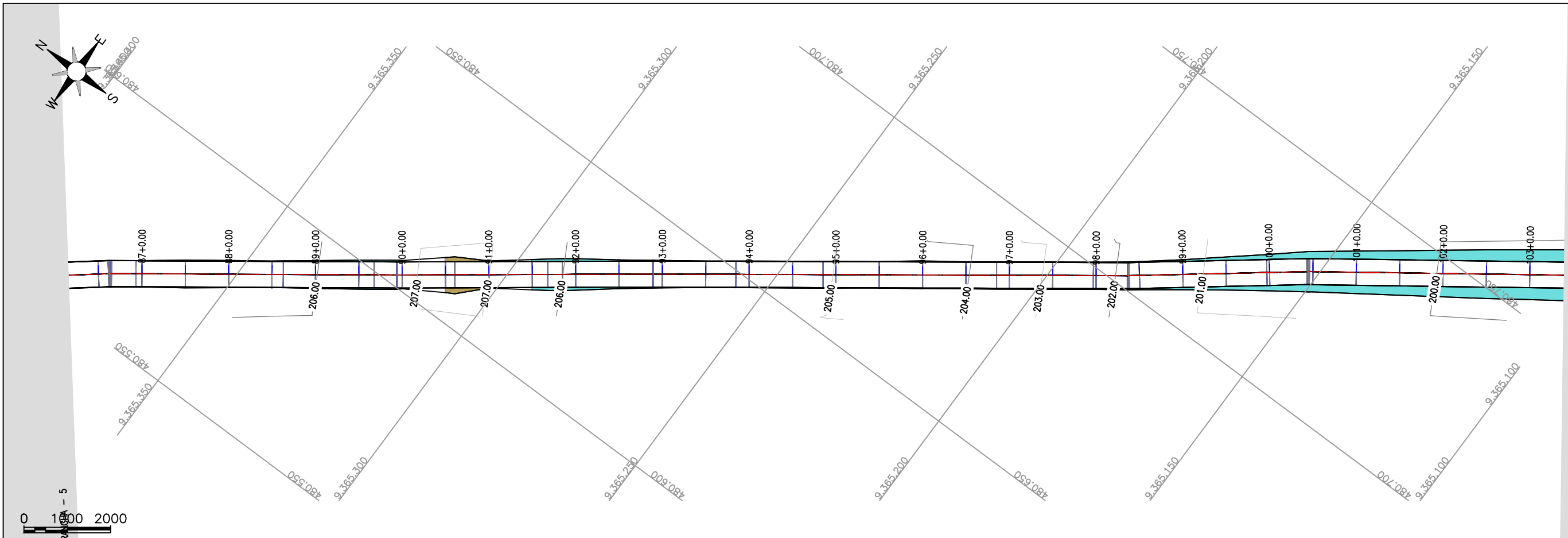
Cota vermelha	Cota da terraplenagem	Cota do terreno	Escala
0.400	216.512	216.112	68
0.415	216.495	216.080	69
0.479	216.259	215.781	70
0.185	215.655	215.470	71
0.077	214.709	214.631	72
-0.073	213.724	213.796	73
0.081	212.739	212.658	74
0.301	211.800	211.499	75
0.415	211.125	210.710	76
0.421	210.697	210.276	77
0.323	210.306	209.983	78
0.282	210.019	209.737	79
0.245	209.854	209.609	80
0.236	209.624	209.398	81
0.169	208.961	208.791	82
0.221	207.922	207.702	83
0.144	206.852	206.708	84
0.512	205.971	205.459	85
0.362	205.552	205.190	86
0.361	205.529	205.168	86

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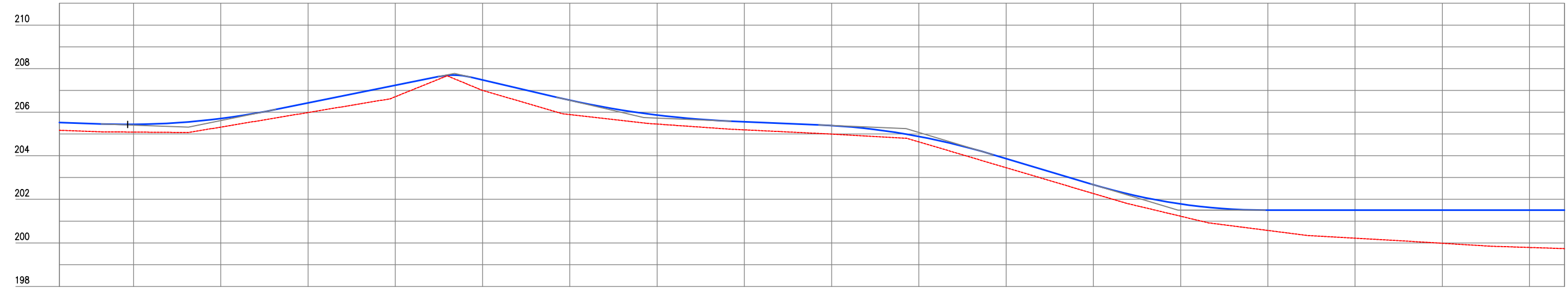


PREFEITURA MUNICIPAL DE MILHÃ - CE	
ADEQUAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE MILHÃ / CE	
SÍTIO CIPÓ - ESTAQUEAMENTO E PERFIL LONGITUDINAL	
PROJETISTA:	ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE
ARQUIVO:	MILHÃ_SÍTIO CIPÓ_GEO_R0.DWG

PRANCHA:
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 ESCALA:
1/1000



ESTRADA



Cota vermelha	Cota da topografia	Cota do terreno	Estaca
0,361	205,529	205,168	86
0,353	205,439	205,086	87
0,394	205,710	205,315	88
0,439	206,423	205,984	89
0,522	207,232	206,710	90
0,477	207,480	207,003	91
0,661	206,551	205,860	92
0,412	205,867	205,455	93
0,373	205,562	205,189	94
0,395	205,388	204,993	95
0,248	204,886	204,638	96
0,420	203,872	203,452	97
0,404	202,670	202,266	98
0,562	201,787	201,225	99
0,933	201,504	200,571	100
1,287	201,504	200,217	101
1,522	201,504	199,963	102
1,714	201,504	199,790	103
1,767	201,504	199,737	103

TERRENO NATURAL PROJETADO ATERRO CORTE CURVAS DE NÍVEL

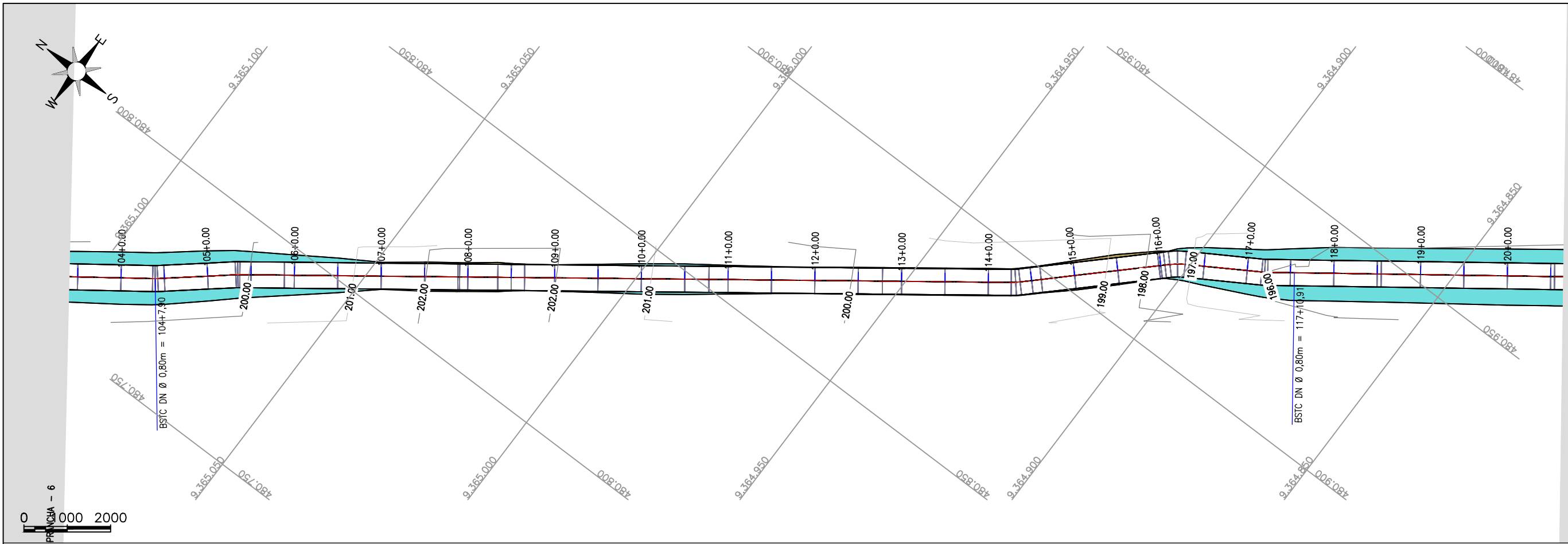
JOTA BARROS PROJETOS
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PREFEITURA MUNICIPAL DE MILHÃ - CE
 ADEQUAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE MILHÃ / CE
SÍTIO CIPÓ - ESTAQUEAMENTO E PERFIL LONGITUDINAL

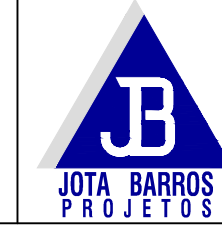
PROJETA: ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE
 ARQUIVO: MILHÃ_SÍTIO CIPÓ_GEO_R0.DWG

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 ESCALA:
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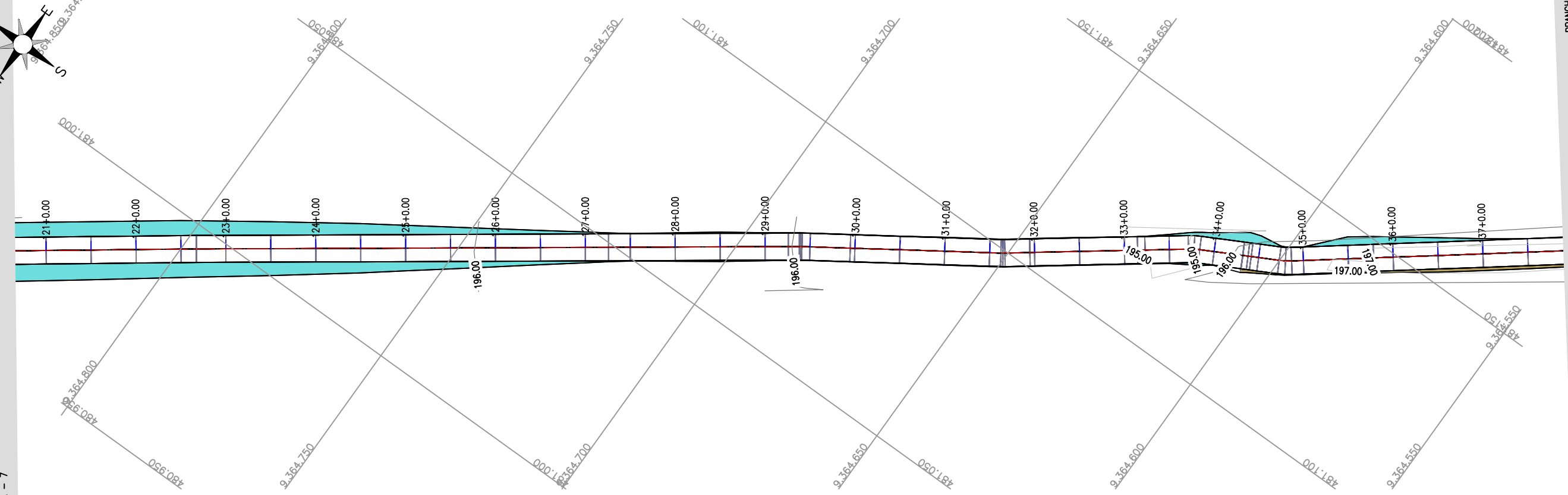
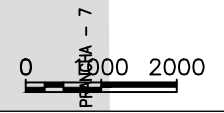
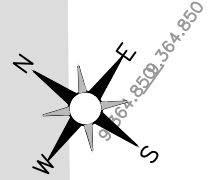
Estaca	103	104+7.90	105	106	107	108	109	110	111	112	113	114	115	116	117	117+10.91	118	119	120	120
Cota do terreno	199,737	199,547	199,744	200,349	201,403	202,400	202,016	201,106	200,523	200,145	199,824	199,519	199,236	197,622	196,253	195,887	195,676	195,723	195,559	195,480
Cota da terraplenagem	201,504	201,504	201,504	201,508	201,811	202,595	202,384	201,695	201,011	200,462	200,101	199,798	199,392	197,979	197,844	197,844	197,844	197,837	197,776	197,702
Cota vermelha	1,767	1,957	1,760	1,159	0,409	0,195	0,368	0,589	0,488	0,317	0,277	0,279	0,156	0,257	1,591	1,957	1,988	2,114	2,217	2,222

JOTA BARROS PROJETOS
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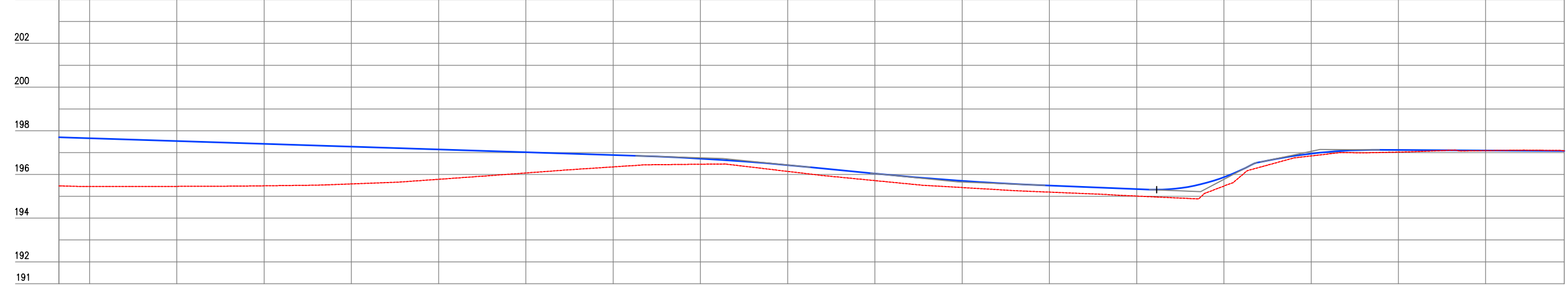
PREFEITURA MUNICIPAL DE MILHÃ - CE
 ADEQUAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE MILHÃ / CE
SÍTIO CIPÓ - ESTAQUEAMENTO E PERFIL LONGITUDINAL
 PROJETA: ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE
 ARQUIVO: MILHÃ_SÍTIO CIPÓ_GEO_R0.DWG

PRANCHA:
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PRANCHA - 8

ESTRADA



Cota Vermelha	Cota do Terreno	Estaca
2,222	197,702	120
2,205	195,453	121
2,075	197,530	122
1,921	197,402	123
1,706	197,274	124
1,367	195,779	125
0,950	197,018	126
0,543	196,690	127
0,257	196,725	128
0,289	196,430	129
0,320	196,039	130
0,307	195,707	131
0,302	195,494	132
0,323	195,334	133
0,406	195,676	134
0,105	196,653	135
0,089	197,123	136
0,008	197,100	137
-0,006	197,079	137

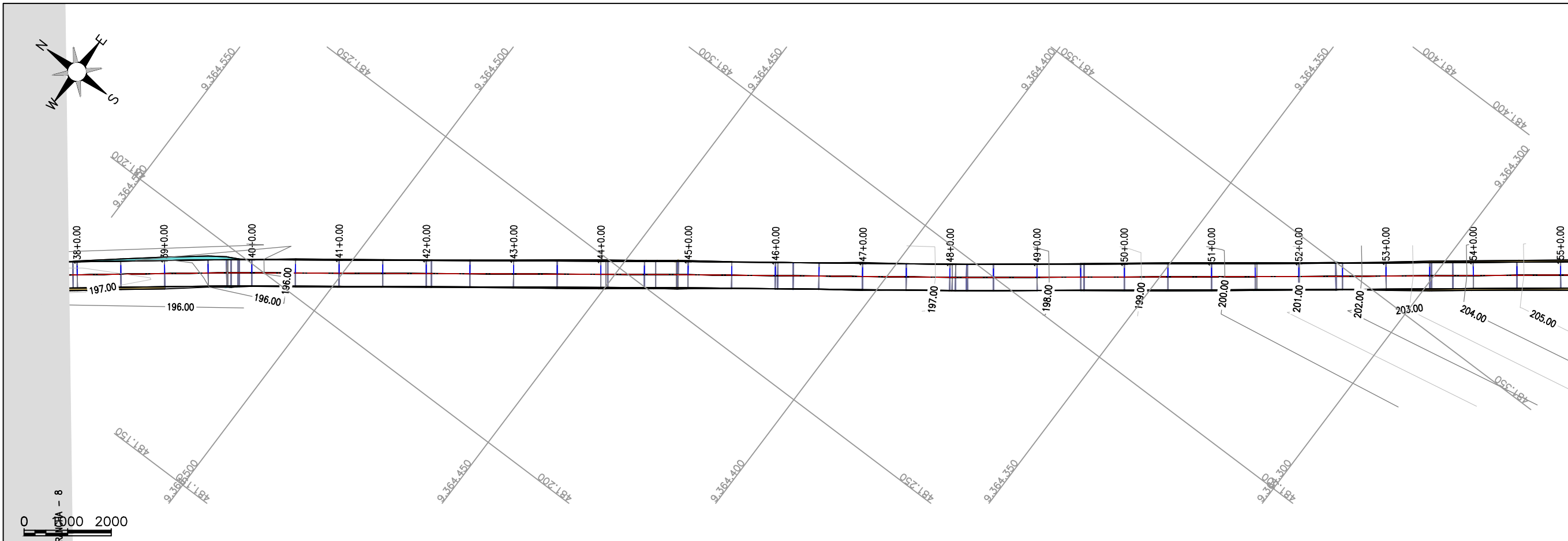
TERRENO NATURAL PROJETADO ATERRO CORTE CURVAS DE NÍVEL

JOTA BARROS PROJETOS
 Arthur Moreira Torquato
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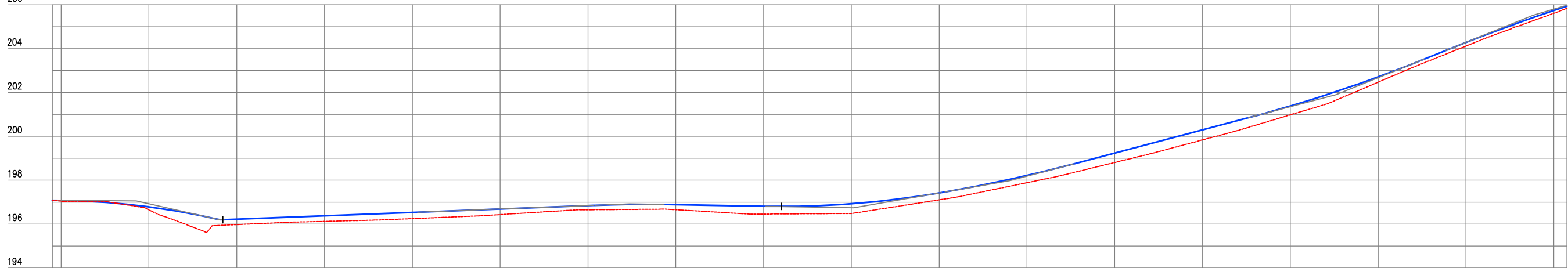


PREFEITURA MUNICIPAL DE MILHÃ - CE	
ADEQUAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE MILHÃ / CE	
SÍTIO CIPÓ - ESTAQUEAMENTO E PERFIL LONGITUDINAL	
PROJETISTA:	ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE
ARQUIVO:	MILHÃ_SÍTIO CIPÓ_GEO_R0.DWG

PRANCHA:
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 ESCALA:
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ESTRADA



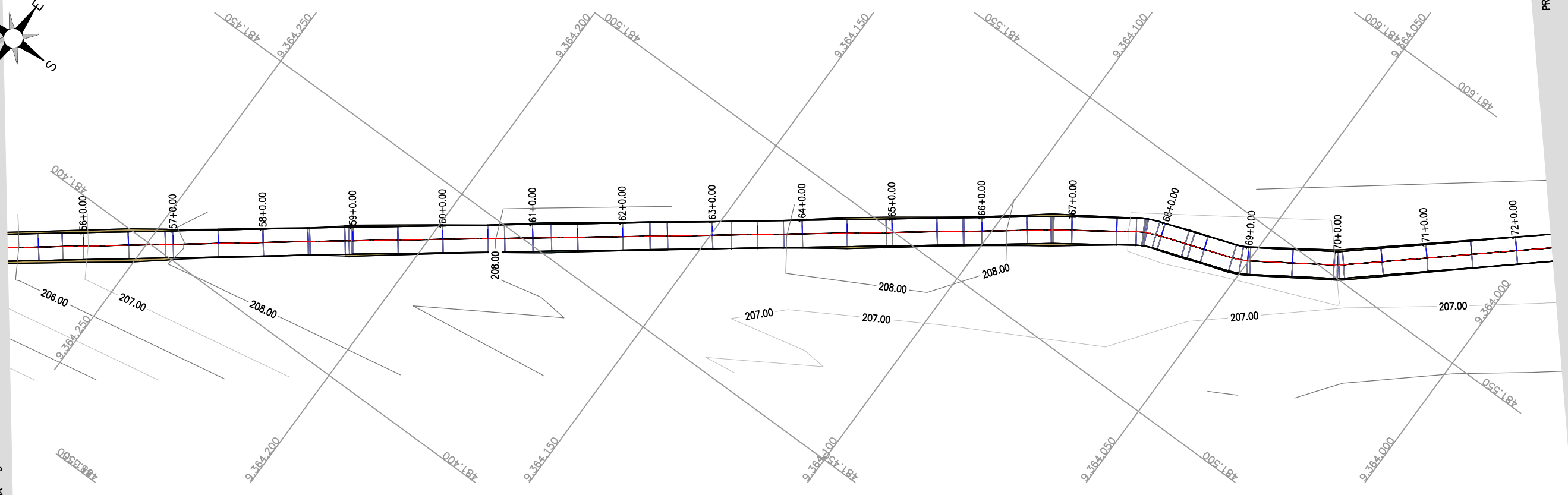
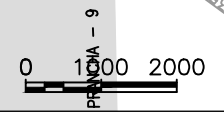
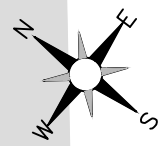
Cota Vermelha	Cota da terraplenagem	Cota do terreno	Estaca
-0,006	197,079	197,085	137
0,032	197,076	197,043	138
0,137	196,784	196,647	139
0,245	196,220	195,974	140
0,253	196,376	196,123	141
0,285	196,532	196,247	142
0,255	196,688	196,433	143
0,193	196,843	196,651	144
0,228	196,881	196,654	145
0,358	196,814	196,456	146
0,444	196,926	196,483	147
0,315	197,418	197,104	148
0,332	196,218	197,686	149
0,430	199,239	198,809	150
0,457	200,285	199,838	151
0,403	201,383	200,981	152
0,242	202,712	202,470	153
0,164	204,281	204,117	154
0,124	205,737	205,614	155
0,105	205,937	205,632	155

JOTA BARROS PROJETOS
 Arthur Moreira Torquato
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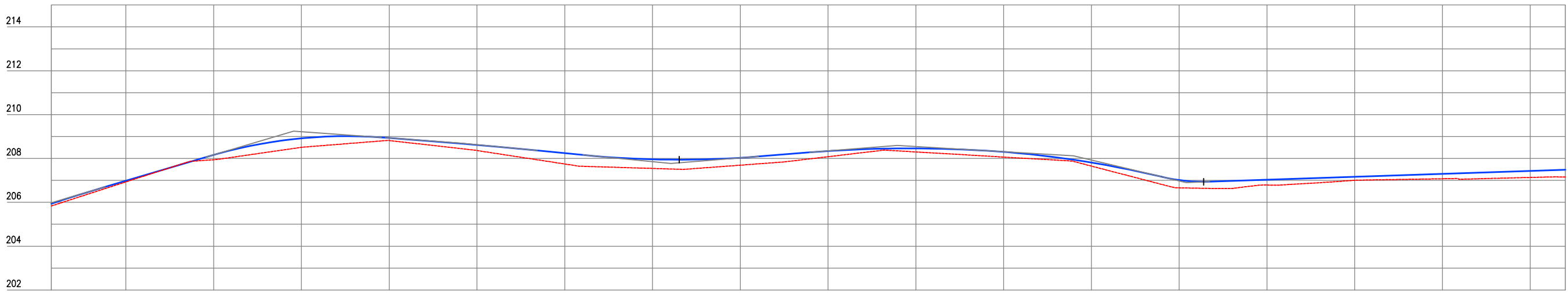


PREFEITURA MUNICIPAL DE MILHÃ - CE
 ADEQUAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE MILHÃ / CE
SÍTIO CIPÓ - ESTAQUEAMENTO E PERFIL LONGITUDINAL
 PROJETA: ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE
 ARQUIVO: MILHÃ_SÍTIO CIPÓ_GEO_R0.DWG

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 ESCALA:
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ESTRADA



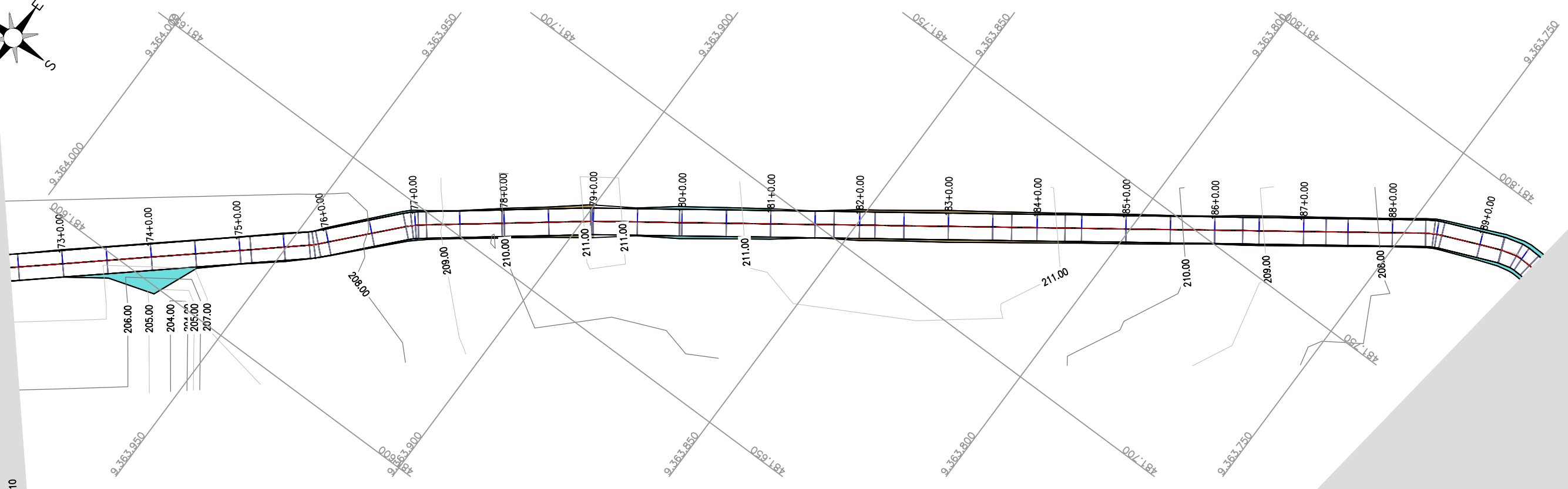
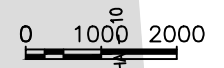
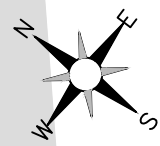
Estaca	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	
Cota do terreno	205,832	206,932	207,941	208,508	208,816	208,562	207,748	207,545	207,684	208,080	208,298	208,064	207,854	208,659	206,787	207,005	207,074	207,134	207,157
Cota da terraplenagem	205,937	206,985	208,167	208,918	208,936	208,615	208,240	207,962	208,031	208,338	208,460	208,300	207,812	207,014	207,027	207,162	207,296	207,430	207,484
Cota vermelha	0,105	0,053	0,226	0,410	0,120	0,253	0,492	0,417	0,338	0,258	0,161	0,236	0,158	0,354	0,240	0,156	0,222	0,296	0,327

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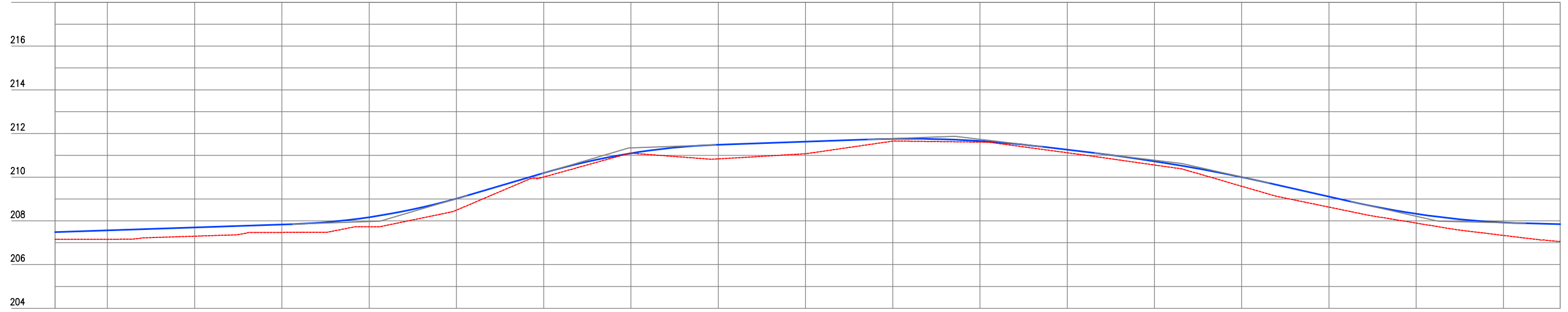


PREFEITURA MUNICIPAL DE MILHÃ - CE	
ADEQUAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE MILHÃ / CE	
SÍTIO CIPÓ - ESTAQUEAMENTO E PERFIL LONGITUDINAL	
PROJETISTA:	ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE
ARQUIVO:	MILHÃ_SÍTIO CIPÓ_GEO_R0.DWG

PRANCHA:
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 ESCALA:
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Estação	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89
Cota do terreno	207,157	207,158	207,299	207,473	208,491	210,010	211,099	210,837	211,073	211,652	211,607	211,119	210,558	209,585	208,630	207,889	207,334
Cota da terraplenagem	207,484	207,565	207,699	207,833	208,167	209,019	210,085	211,483	211,626	211,756	211,655	211,257	210,730	210,002	209,111	208,323	207,925
Cota vermelha	0,327	0,406	0,399	0,361	0,435	0,527	0,181	-0,004	0,645	0,553	0,105	0,048	0,172	0,417	0,481	0,425	0,591

TERRENO NATURAL PROJETADO ATERRO CORTE CURVAS DE NÍVEL

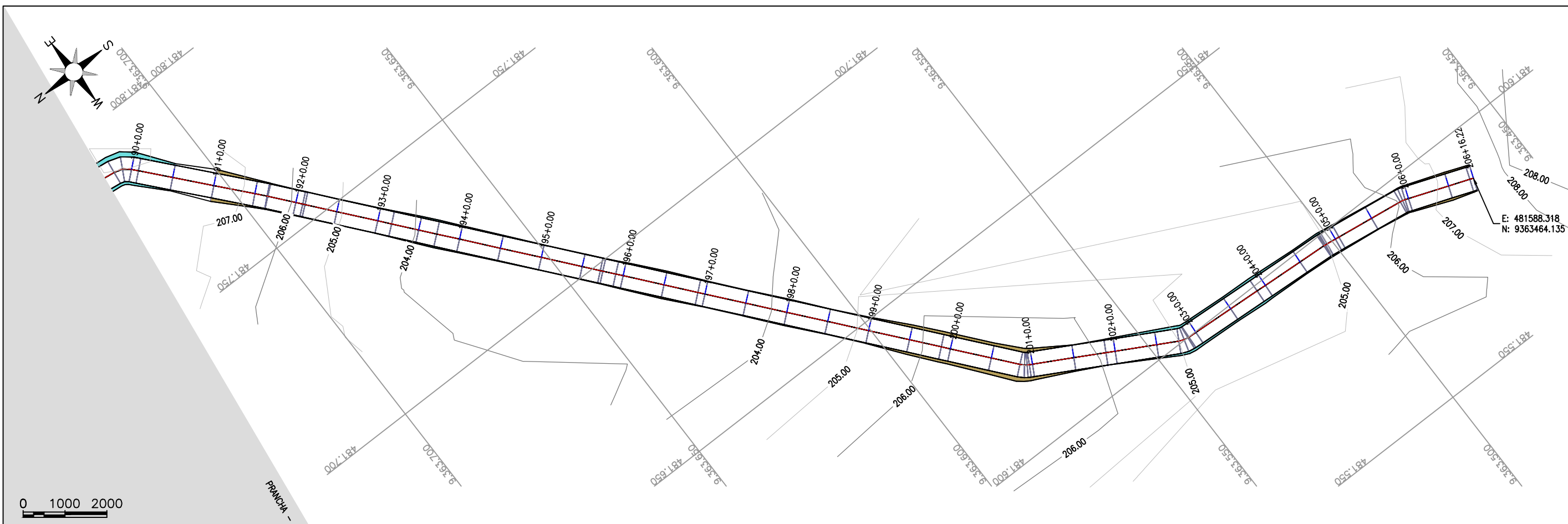
JOTA BARROS PROJETOS
 Arthur Moreira Torquato
 Engº Civil - CREA 53900/D - CE



PREFEITURA MUNICIPAL DE MILHÃ - CE
 ADEQUAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE MILHÃ / CE
SÍTIO CIPÓ - ESTAQUEAMENTO E PERFIL LONGITUDINAL

PROJETA: ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE
 ARQUIVO: MILHÃ_SÍTIO CIPÓ_GEO_R0.DWG

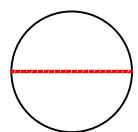
PRANCHA:
11 / 12
 ESCALA:
1/1000



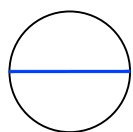
ESTRADA



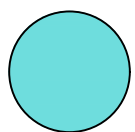
Estaca	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	
Cota do terreno	207,054	207,020	207,515	205,912	204,488	203,595	203,151	203,077	203,518	204,168	205,175	206,249	206,667	205,774	204,866	204,569	205,109	206,262	207,634
Cota da terraplenagem	207,651	207,818	207,393	206,185	204,846	204,049	203,511	203,319	203,802	204,628	205,454	206,275	206,620	206,181	205,456	205,149	205,610	206,630	207,884
Cota vermelha	0,796	0,798	-0,122	0,273	0,358	0,454	0,360	0,242	0,283	0,460	0,279	0,026	-0,067	0,407	0,570	0,580	0,501	0,367	0,250



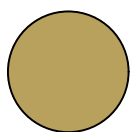
TERRENO NATURAL



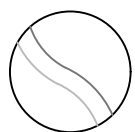
PROJETADO



ATERRO



CORTE



CURVAS DE NÍVEL

JOTA BARROS PROJETOS
Arthur Moreira Torquato
Engº Civil - CREA 53900/D - CE



PREFEITURA MUNICIPAL DE MILHÃ - CE

ADEQUAÇÃO DE ESTRADAS VICINAIS NO MUNICÍPIO DE MILHÃ / CE

SÍTIO CIPÓ - ESTAQUEAMENTO E PERFIL LONGITUDINAL

PROJETISTA: ENG. CIVIL ARTHUR MOREIRA TORQUATO - CREA 53.900D-CE

ARQUIVO: MILHÃ_SÍTIO CIPÓ_GEO_R0.DWG

PRANCHA:

12 / 12

ESCALA:

1/1000