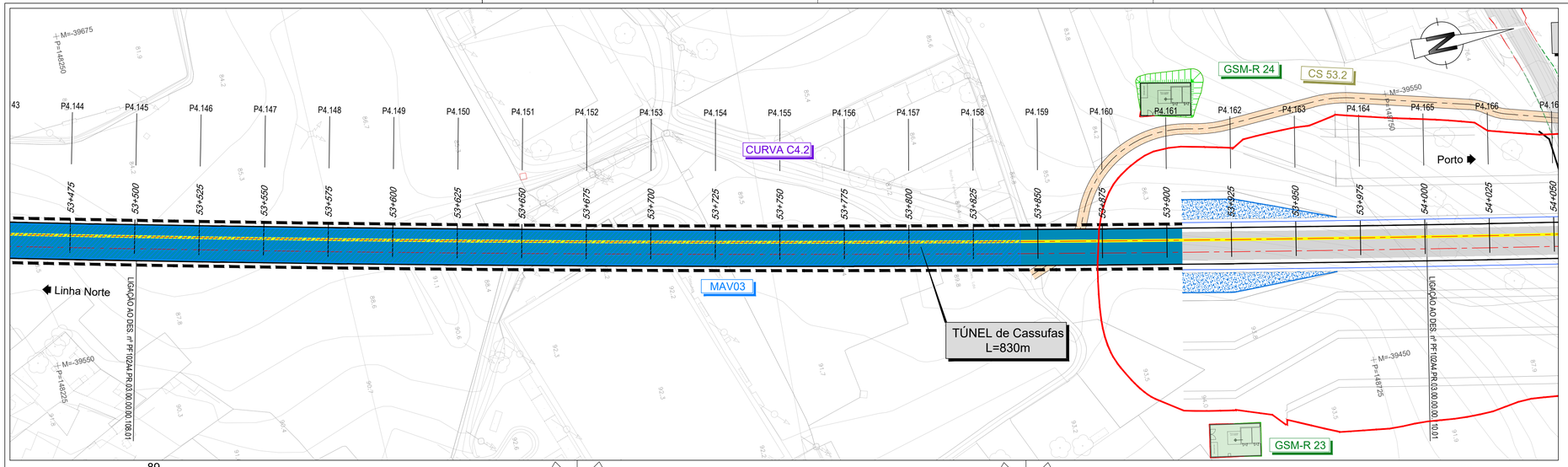
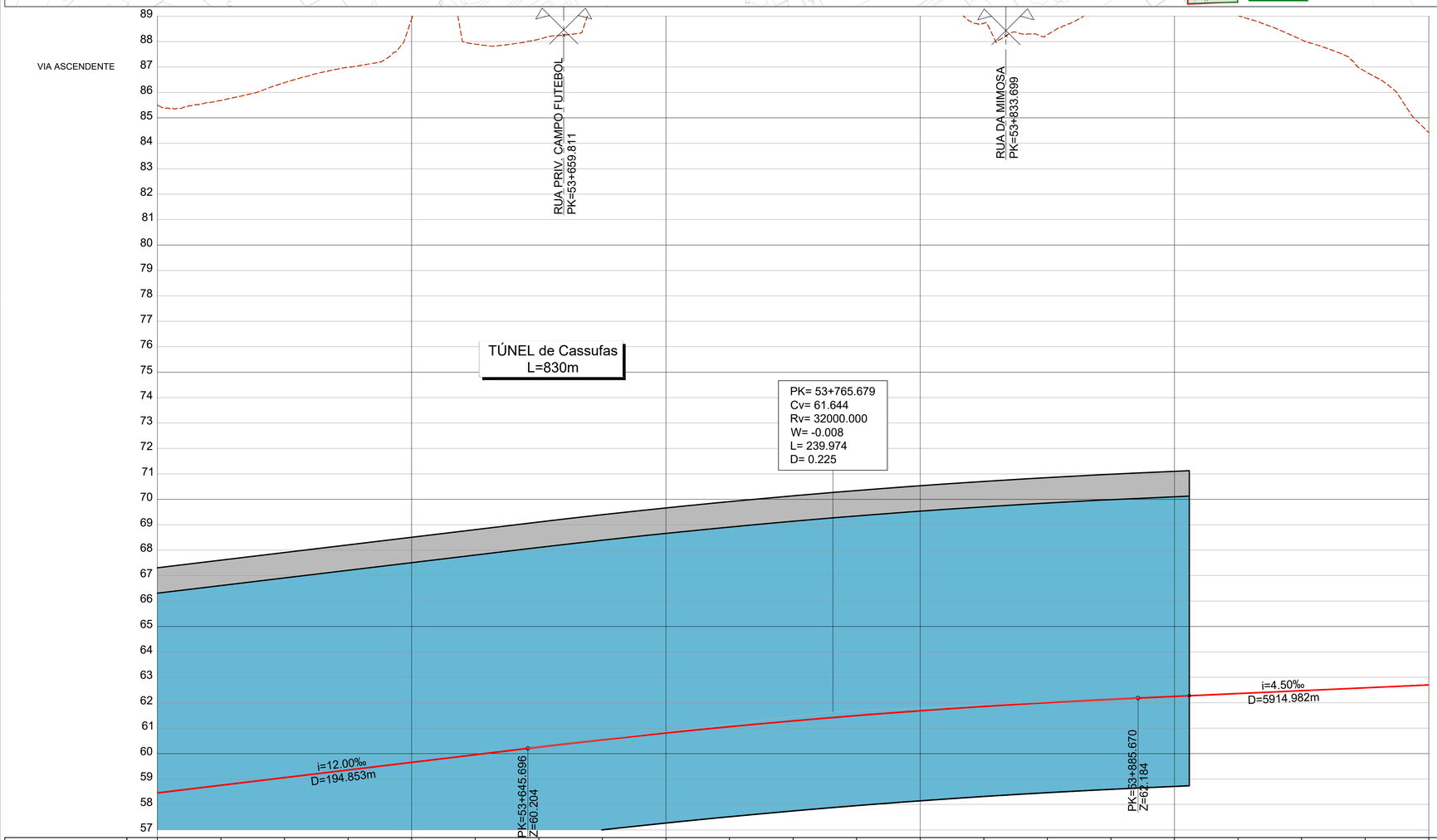

P4.144
P4.145
P4.146
P4.147
P4.148
P4.149
P4.150
P4.151
P4.152
P4.153
P4.154
P4.155
P4.156
P4.157
P4.158
P4.159
P4.160
P4.161
P4.162
P4.163
P4.164
P4.165
P4.166
53+475
53+500
53+525
53+550
53+575
53+600
53+625
53+650
53+675
53+700
53+725
53+750
53+775
53+800
53+825
53+850
53+875
53+900
53+925
53+950
53+975
54+000
54+025
54+050
CURVA C4.2
GSM-R 24
CS 53.2
Porto
Linha Norte
MAV03
TÚNEL de Cassufas
L=830m
GSM-R 23
LIGAÇÃO AO DPS nº PF102A4.PR.03.00.00.00.108.01
LIGAÇÃO AO DPS nº PF102A4.PR.03.00.00.00.110.01


VIA ASCENDENTE
RUA PRIV. CAMPO FUTEBOL
PK=53+659.811
RUA DA MIMOSA
PK=53+833.699
TÚNEL de Cassufas
L=830m
PK= 53+765.679
Cv= 61.644
Rv= 32000.000
W= -0.008
L= 239.974
D= 0.225
i=12.00‰
D=194.853m
i=4.50‰
D=5914.982m
PK=53+645.696
Z=60.204
PK=53+885.670
Z=62.184

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