



$R_{\infty} = 0+439.862$
 $R_{\infty} = 0+440.000$

P45
 0+440.000

P46
 0+450.000

HP 0+455.20

P47

0+460.000

P48

0+470.000

P49

0+480.000

0+300.00

TP 0+489.35

km 0+490.000

P50

0+490.000

km 0+500.00

0+500.000

P51

$H = 1000.000$
 $h_{TS} = 43.922$
 $f = 0.016$

0.50%
 34.799m

0.63%
 60.000m

35.201m
 0.50%

km = 0+455.201

34.799m
 0.50%

$h_{TS} = 44.096$
 $f = 0.073$
 $H = 1000.000$