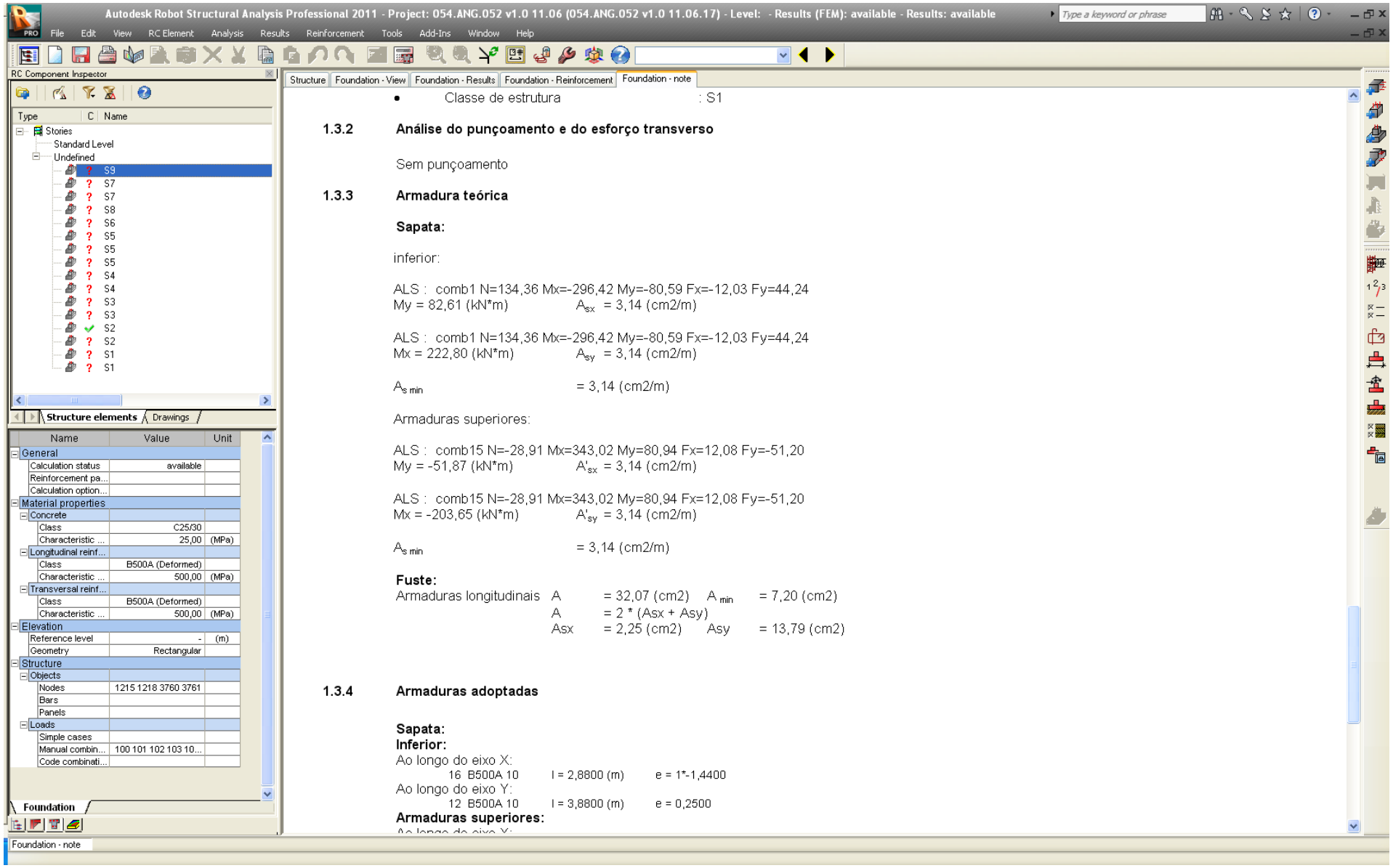

- Classe de estrutura : S1

1.3.2 Análise do punçoamento e do esforço transverso

Sem punçoamento

1.3.3 Armadura teórica

Sapata:

inferior:

ALS : comb1 N=134,36 Mx=-296,42 My=-80,59 Fx=-12,03 Fy=44,24
My = 82,61 (kN*m) A_{sx} = 3,14 (cm2/m)

ALS : comb1 N=134,36 Mx=-296,42 My=-80,59 Fx=-12,03 Fy=44,24
Mx = 222,80 (kN*m) A_{sy} = 3,14 (cm2/m)

$A_{s\,min}$ = 3,14 (cm2/m)

Armaduras superiores:

ALS : comb15 N=-28,91 Mx=343,02 My=80,94 Fx=12,08 Fy=-51,20
My = -51,87 (kN*m) A'_{sx} = 3,14 (cm2/m)

ALS : comb15 N=-28,91 Mx=343,02 My=80,94 Fx=12,08 Fy=-51,20
Mx = -203,65 (kN*m) A'_{sy} = 3,14 (cm2/m)

$A_{s\,min}$ = 3,14 (cm2/m)

Fuste:
Armaduras longitudinais A = 32,07 (cm2) A_{min} = 7,20 (cm2)
A = 2 * (Asx + Asy)
Asx = 2,25 (cm2) Asy = 13,79 (cm2)

1.3.4 Armaduras adoptadas

Sapata:
Inferior:
Ao longo do eixo X:
16 B500A 10 l = 2,8800 (m) e = 1*-1,4400
Ao longo do eixo Y:
12 B500A 10 l = 3,8800 (m) e = 0,2500
Armaduras superiores: