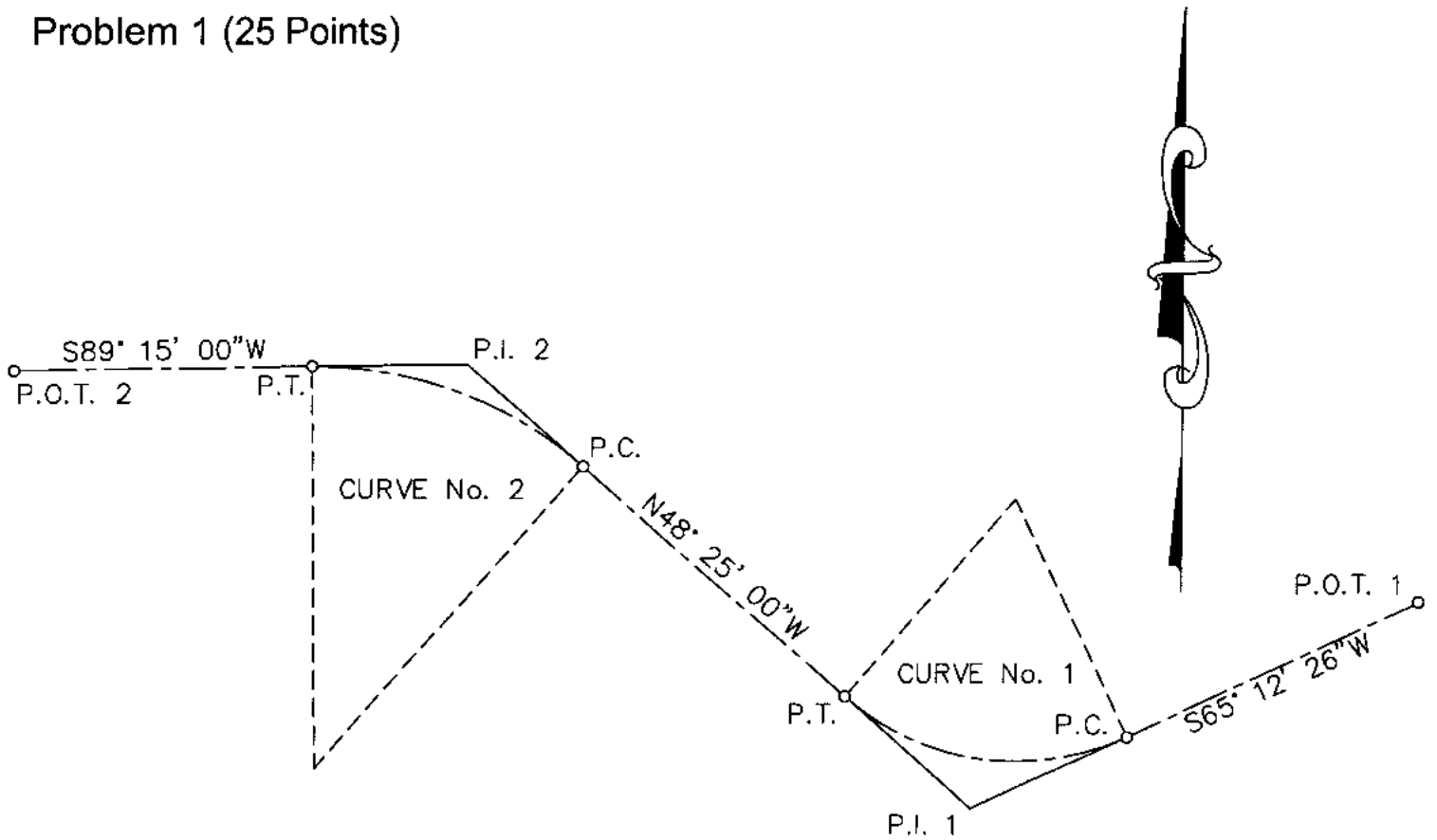


Problem 1 (25 Points)



GIVEN THE FOLLOWING BASELINE INFORMATION:

P.O.T. 1 = STA. 50+67.12
 P.O.T. 1 TO P.I.1 = 920.00'
 P.I. 1 TO P.I. 2 = 1300.00'
 P.I. 2 TO P.O.T. 2 = 842.31'

CURVE No. 1
 $D_c = 12^\circ 00' 00''$

CURVE No. 2
 $R = 750.00'$

SOLVE THE FOLLOWING:

CURVE No 1

P.C. STA. =

P.T. STA. =

L =

T =

R =

CURVE No 2

P.C. STA. =

P.T. STA. =

L =

T =

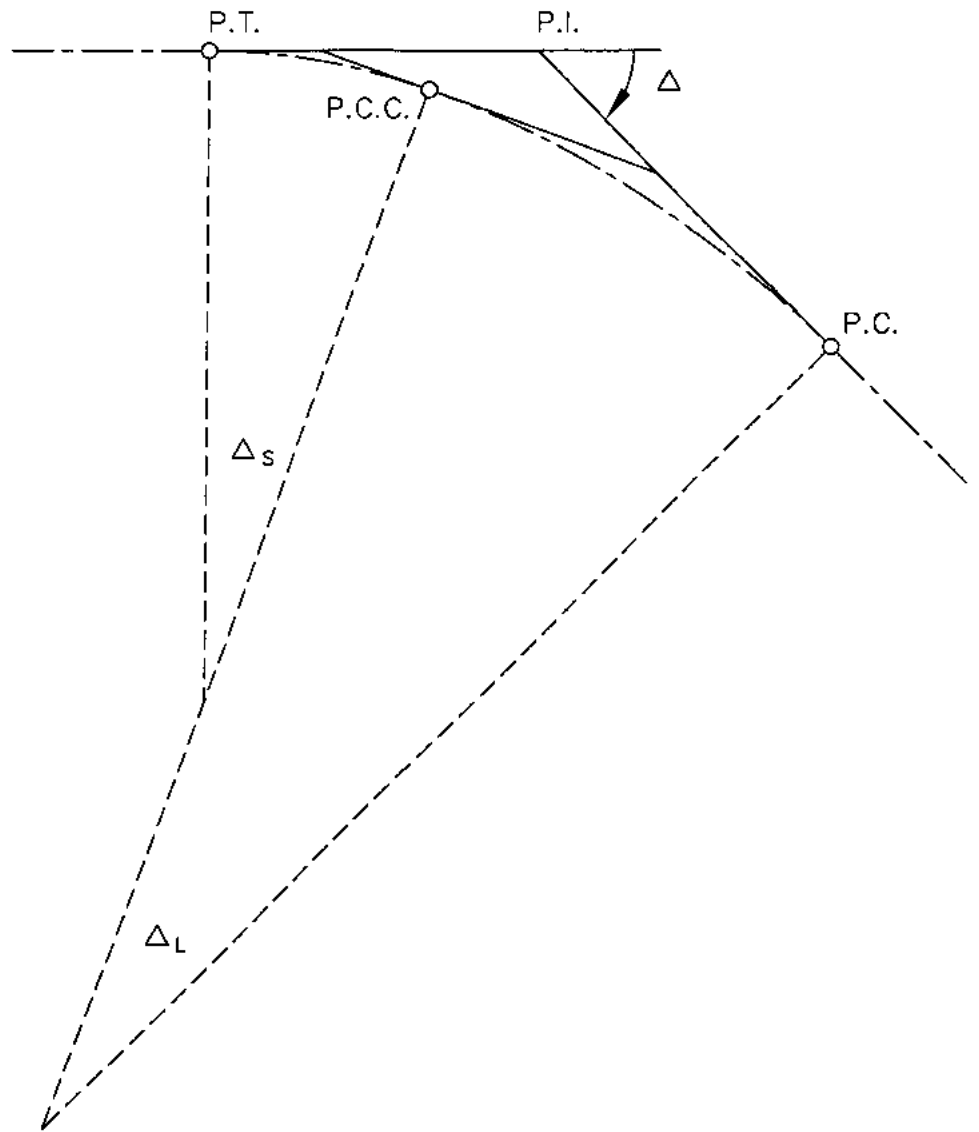
D_c =

P.O.T. 2 STA. =

Problem 3 (20 Points)

GIVEN THE FOLLOWING COMPOUND CURVE:

$\Delta_L = 29^\circ 30' 00''$
 $\Delta_S = 43^\circ 00' 00''$
 $R_S = 675.00'$
 $D_c = 5^\circ 00' 00''$ (For R_L)
 P.I. STA. = 12+75.00



SOLVE FOR:

$T_L =$

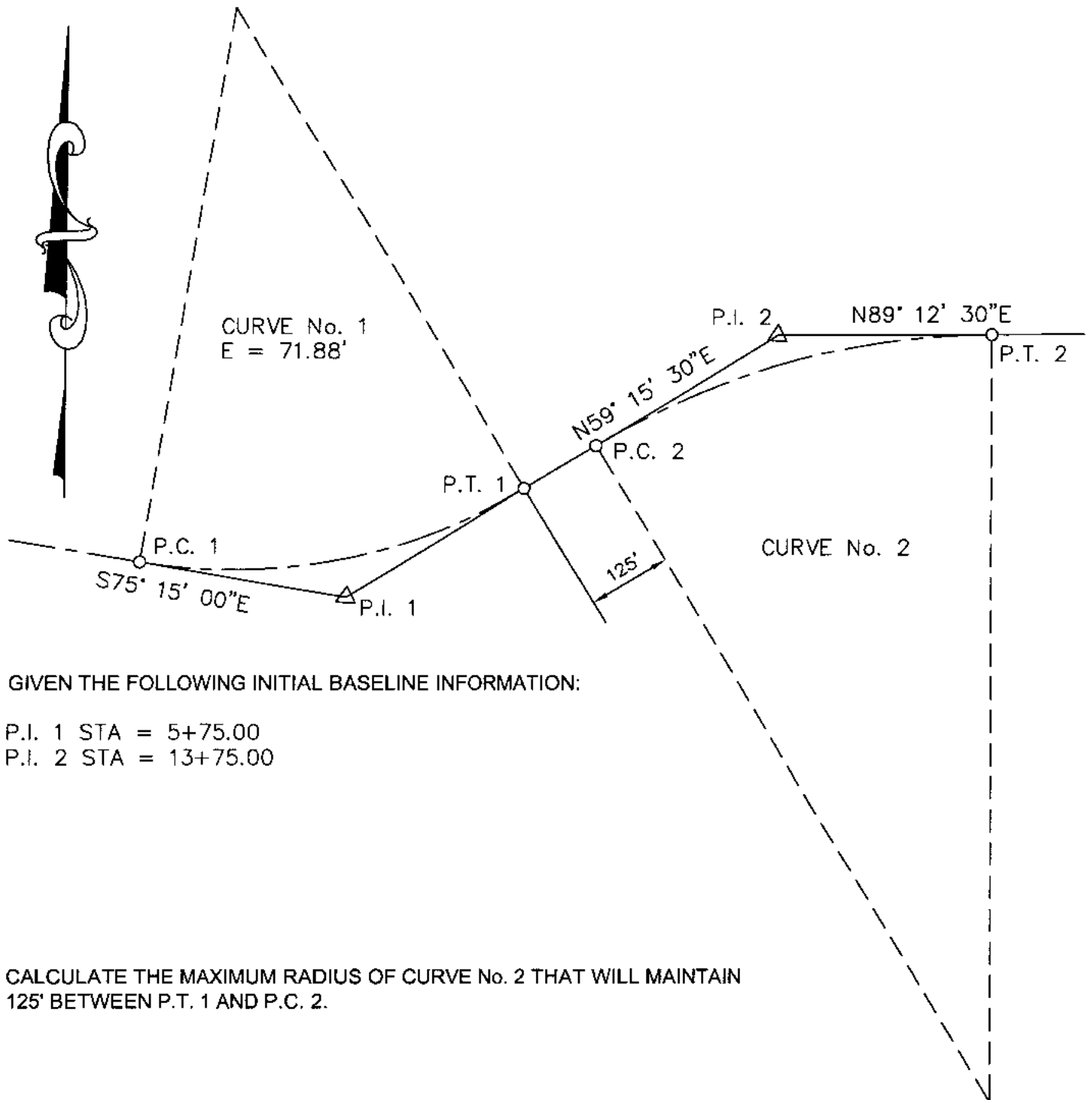
$\Delta =$

$R_L =$

P.C.C. STA. =

P.T. STA. =

Problem 4 (20 Points)



GIVEN THE FOLLOWING INITIAL BASELINE INFORMATION:

- P.I. 1 STA = 5+75.00
- P.I. 2 STA = 13+75.00

CALCULATE THE MAXIMUM RADIUS OF CURVE No. 2 THAT WILL MAINTAIN 125' BETWEEN P.T. 1 AND P.C. 2.

Problem 5 (20 Points)

For the alignment shown below, determine the station and offset of Point A and the Northing and Easting values of Point B.

