

Given:

$$\begin{aligned} \Delta &= 17^\circ 48' 52'' \\ R &= 1969.47' \\ PC &= 17+76.88 \end{aligned}$$

Find:

Tangent distances and tangent offsets to layout this curve on half stations.
Additionally, calculate deflection angles and sub-chords to check.

- (1) $\Delta = 17^\circ 48' 52''$
- (2) $R = 1969.47'$
- (3) $L = \underline{\hspace{2cm}},$
- (4) $C = \underline{\hspace{2cm}},$
- (5) $T = \underline{\hspace{2cm}},$
- (6) $M = \underline{\hspace{2cm}},$
- (7) $E = \underline{\hspace{2cm}},$
- (8) $D_A = \underline{\hspace{1cm} \circ \hspace{1cm} ' \hspace{1cm} ''}$
- (9) $D_C = \underline{\hspace{1cm} \circ \hspace{1cm} ' \hspace{1cm} ''}$
- (10) $df = \underline{\hspace{2cm} \circ}$

STATION	l	α	TD	TO	$\alpha/2$	SC
17+76.88	-0-	-0-	-0-	-0-	-0-	-0-
18+00						
18+50						
19+00						
19+50						
20+00						
20+50						
<u>+</u> <u> . .</u>						
21+00						
21+50						
22+00						
22+50						
23+00						
23+50						
<u>+</u> <u> . .</u>						