
Requested Variances & Alternative Design Standards

5-SD-22-C / 5-H-22-UR – PARKER’S FOREST SUBDIVISION

VARIANCES

1. Reduce the minimum intersection approach vertical curve for Road “A” at Irwin Drive from K=15 to K=14.
2. Allow Road “B” to be used as a T-turnaround as an alternative to a cul-de-sac on both ends of Road “B”.

ALTERNATIVE DESIGN STANDARDS REQUIRING KNOXVILLE-KNOX COUNTY PLANNING COMMISSION APPROVAL

1. Reduce the minimum private road pavement width from 26ft to 24ft.
2. Reduce the minimum private right-of-way width from 50ft to 40ft.

ALTERNATIVE DESIGN STANDARDS REQUIRING KNOX COUNTY ENGINEERING AND PUBLIC WORKS APPROVAL

1. Increase the maximum intersection grade from 1 percent to 1.3 percent at the intersection of Road “A” at Irwin Road.
2. Increase the maximum intersection grade from 1 percent to 2 percent at the intersection of Road “A” at Road “B”.

KNOX COUNTY ENGINEERING AND PUBLIC WORKS RECOMMENDATION:

Deny variance #1 because the site topography does not restrict the ability to increase the vertical curve length to obtain the required K value of 15.

With exception of variance #1, Knox County Engineering has reviewed the variance and alternate design standard requests for the Irwin Road site and find them to be acceptable. In our professional opinion these deviations will not create unsafe roadway conditions nor negatively impact present or future traffic operations.