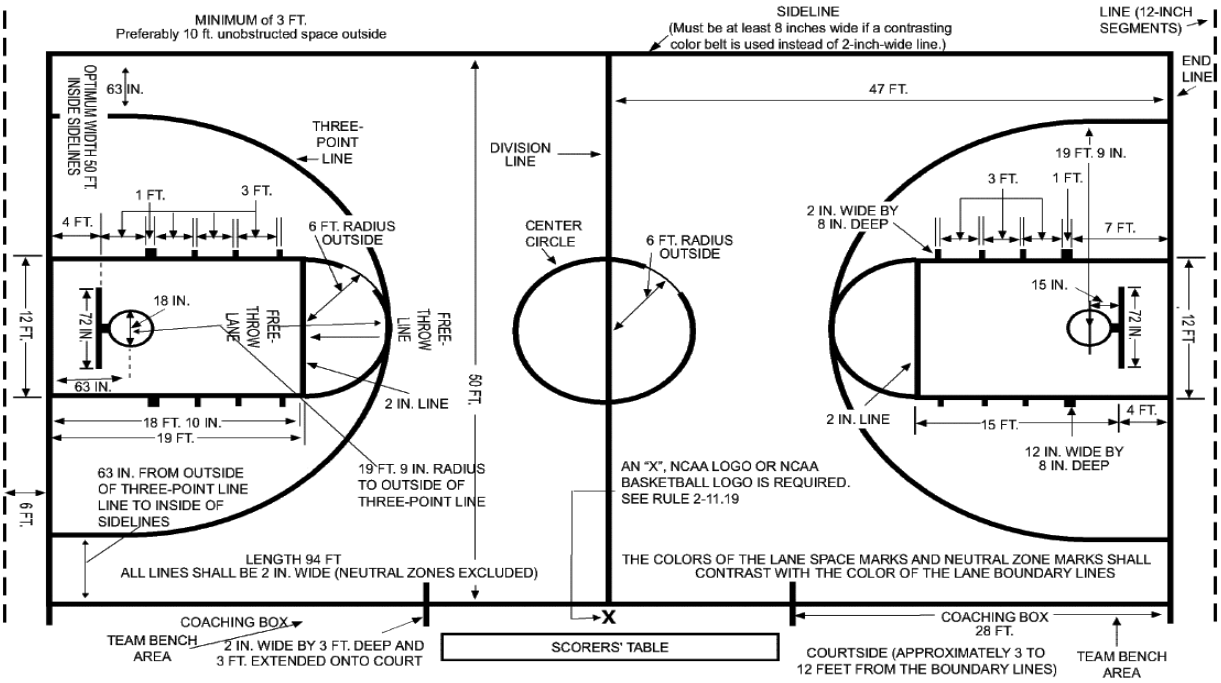
# ARCH362 PARAMETRIC MODELING






In this exercise, you'll create a parametric sketch for a roof structure that spans a regular basketball court. The roof should be able to open at least %30 of it's surface area and close back again. You are expected to sketch a component that is able to suggest an innovative solution to this problem. Feel free if you want to sketch your structure first by hand, than develop the parametric model to animate it's opening process. Although you are not expected to make structural calculations, please be reasonable in the structural integrity of your model, adding necessary amount of beams and lathes.

**Technique** is the component-based surface tesselation methods both on single and multi-layered surfaces. In order to animate the opening and closing processes, you should add an activator [an object, or a slider parameter]. Your target surface is also a secondary subject of animation.

**Submission** will be at least one animated gif file named [name-hw04.gif], at least one rendered image file named [name-hw04.jpg] and the Grasshopper definition file named [name-hw04.ghx], along with other necessary files [3dm, jpg] if needed. All files will be e-mailed to arch362@designcoding.net due March 20th, 2012 [before next class].

**Evaluation** criteria will be exploratory nature of your component design, overall look of your animation, and quality of your parametric definition.

homework issued on March 14th, 2012
image from www.basketball-goals.com/IMAGES/spalding/basketball-court-dimensions.gif