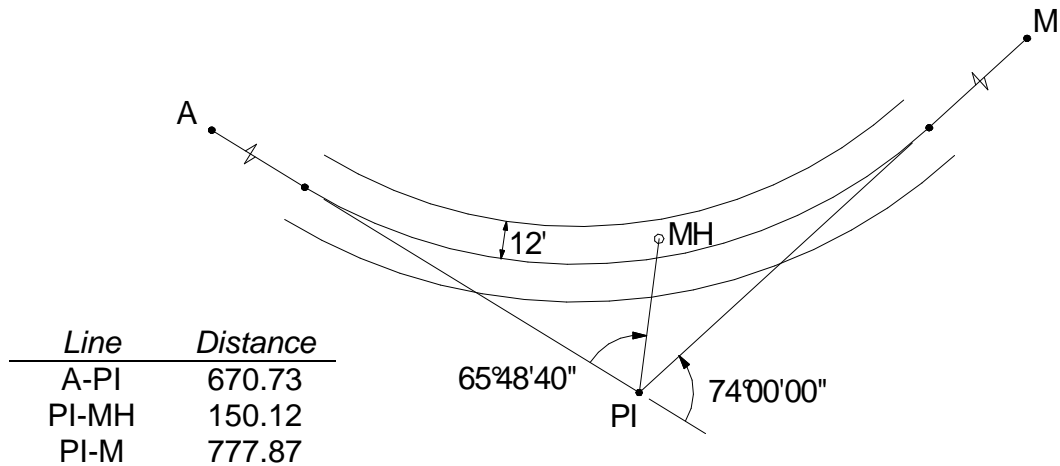


## Curve Fit

A street is being extended into the next phase of a subdivision. The tangent lines have been fixed and laid out. It's required that an existing manhole fall in the center of the inner 12' lane of the extended street. The survey crew occupied the PI and turned an angle from the back tangent to the manhole (MH) center. They also shot the distance. The data is summarized on the sketch and in the table below:



The bearing of the line from A to PI is S 58°26'30" E

What is the center line curve radius which meets this design situation? Compute to nearest foot.