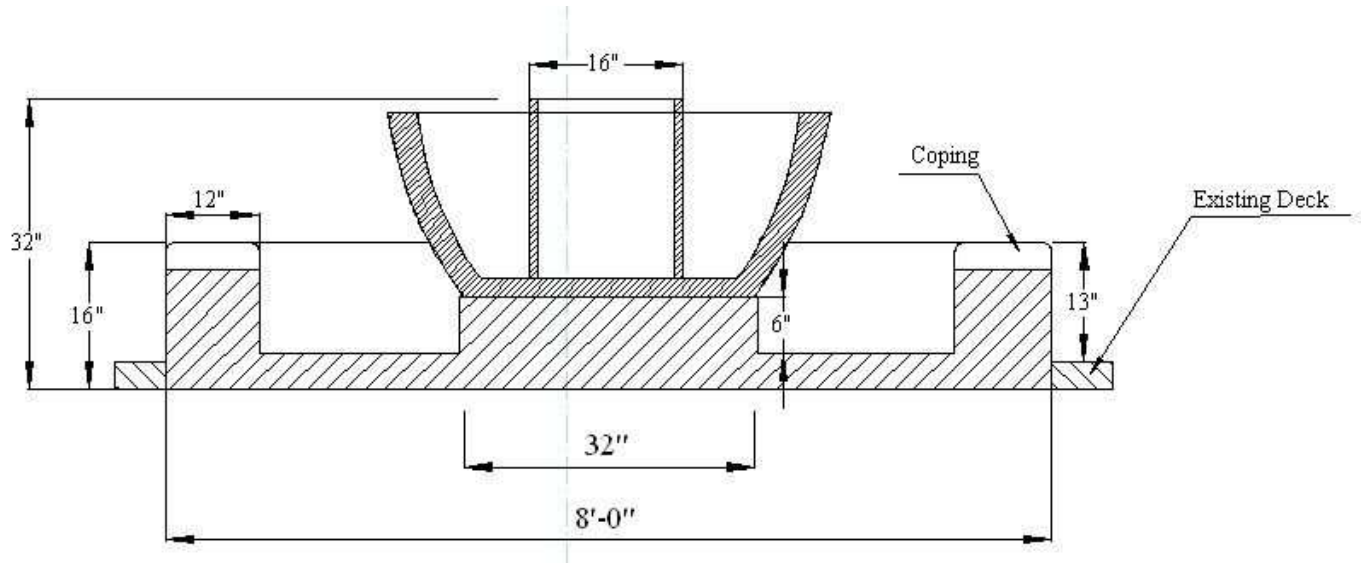




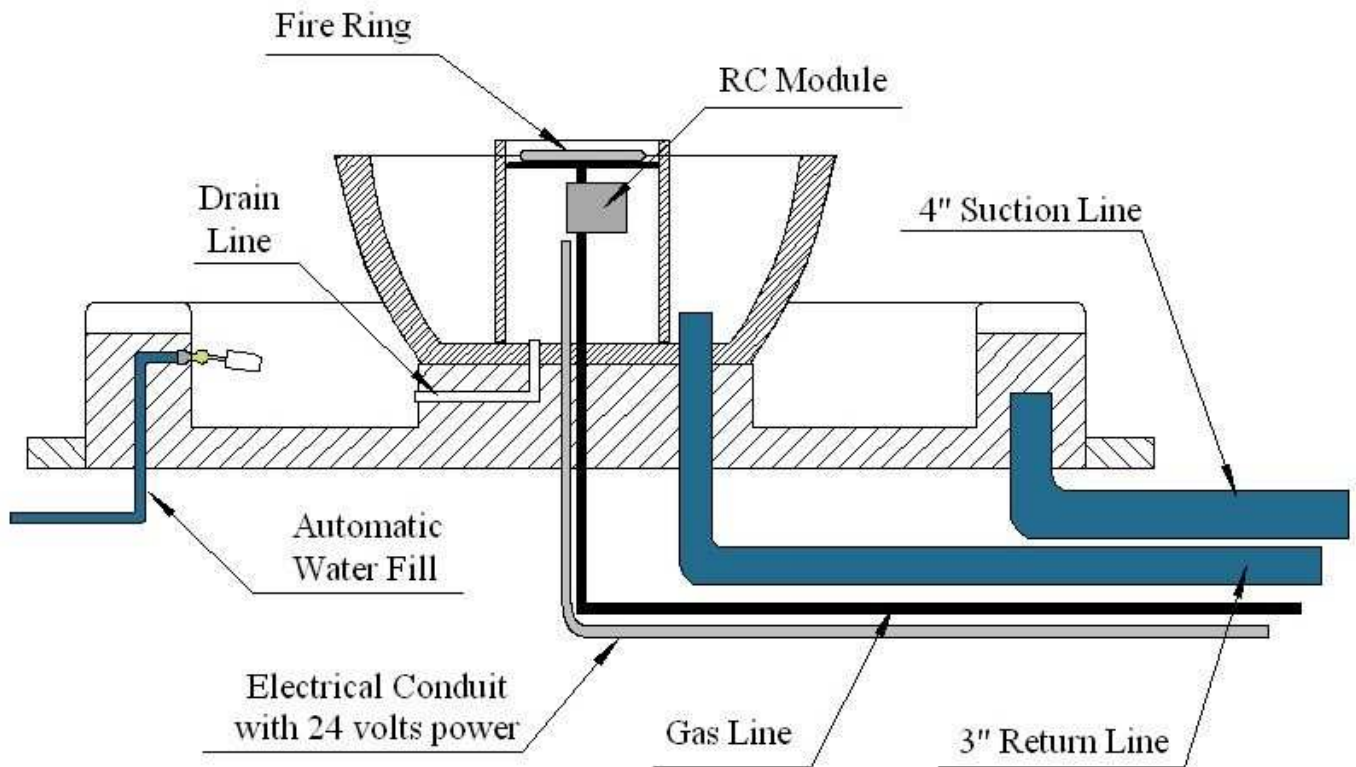
Weekly Design Idea – Fire/Water Bowl



CAD Drawing – Structural Side View

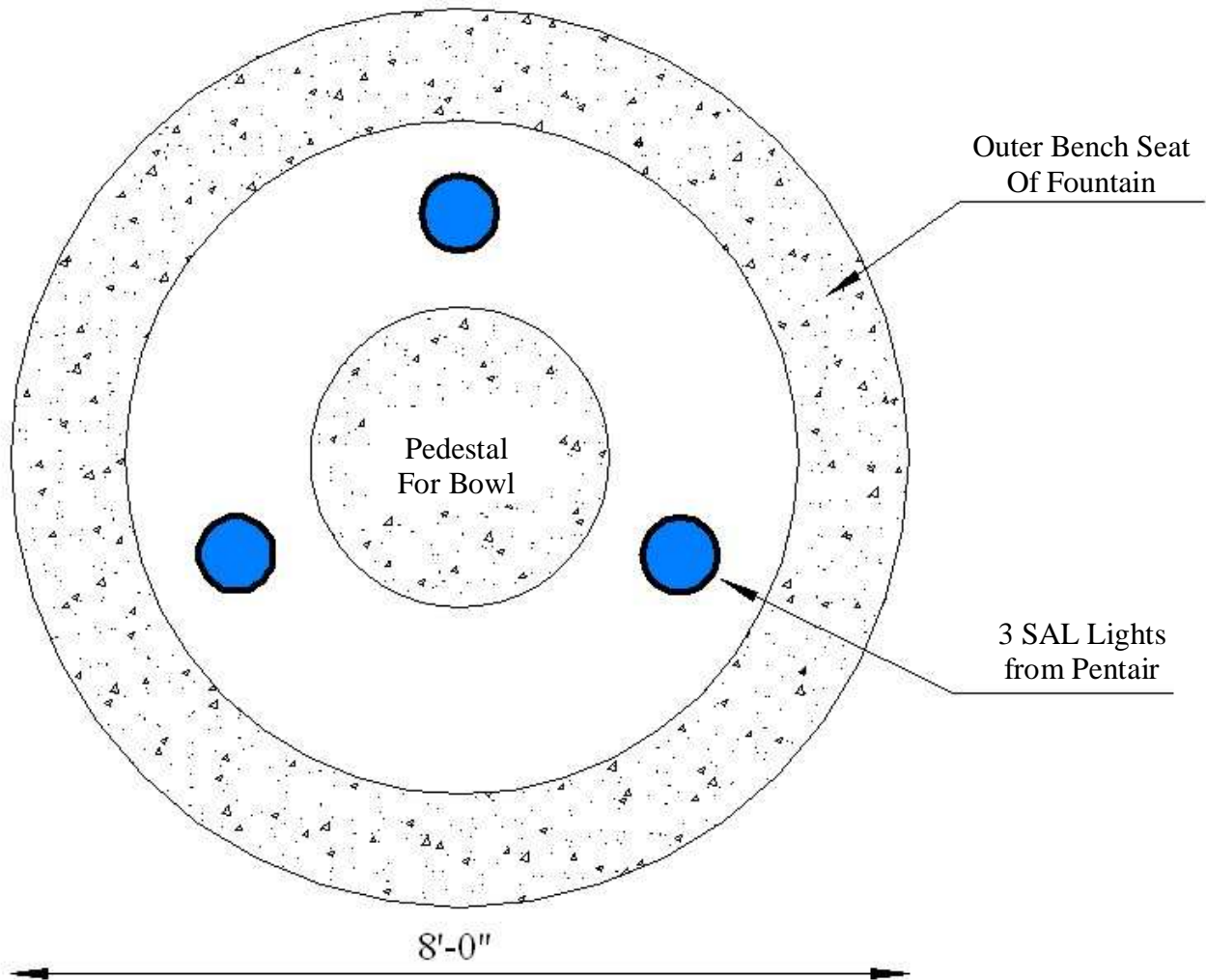


CAD Drawing – Plumbing Side View

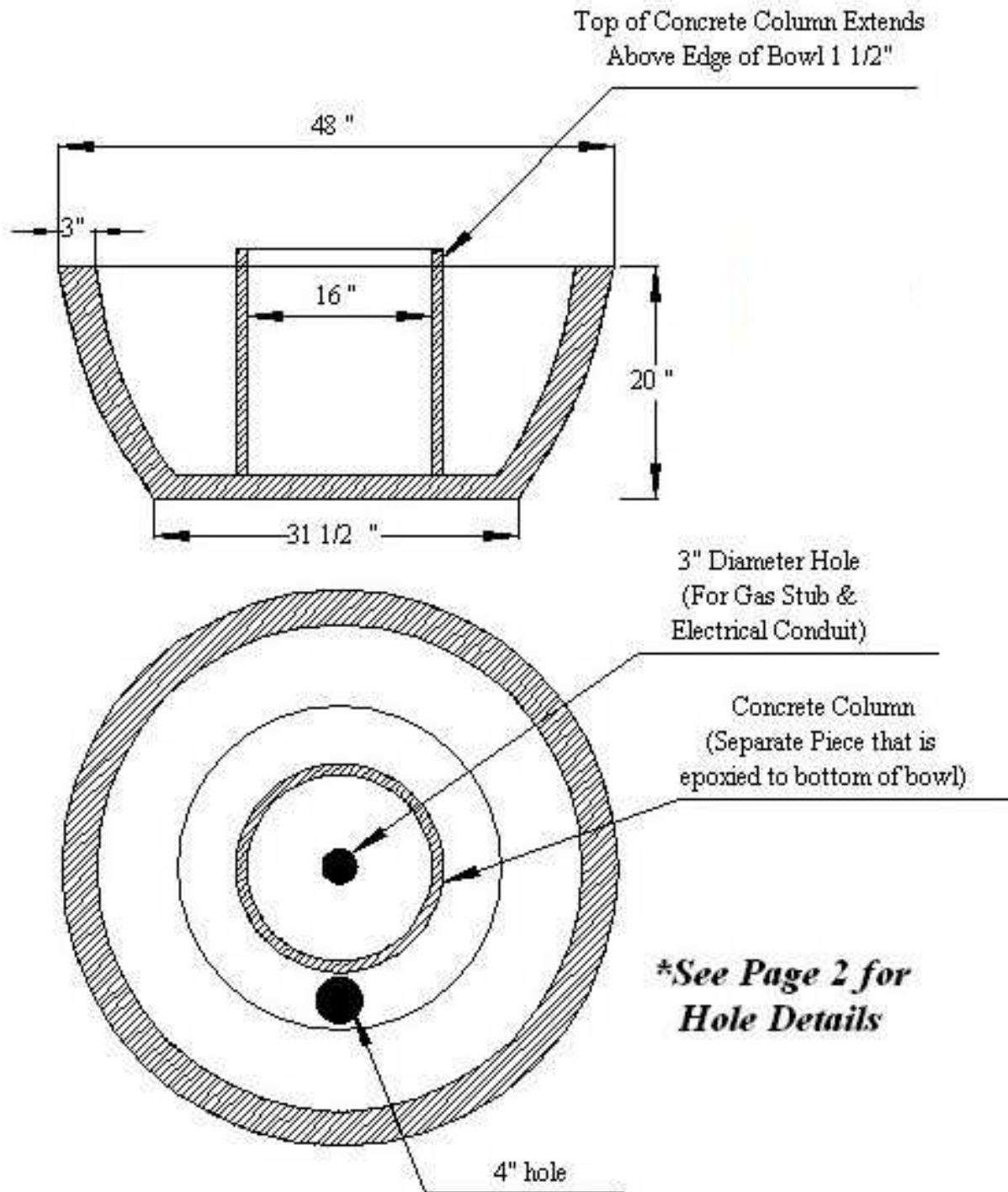




CAD Drawing – Fountain Floor Lighting

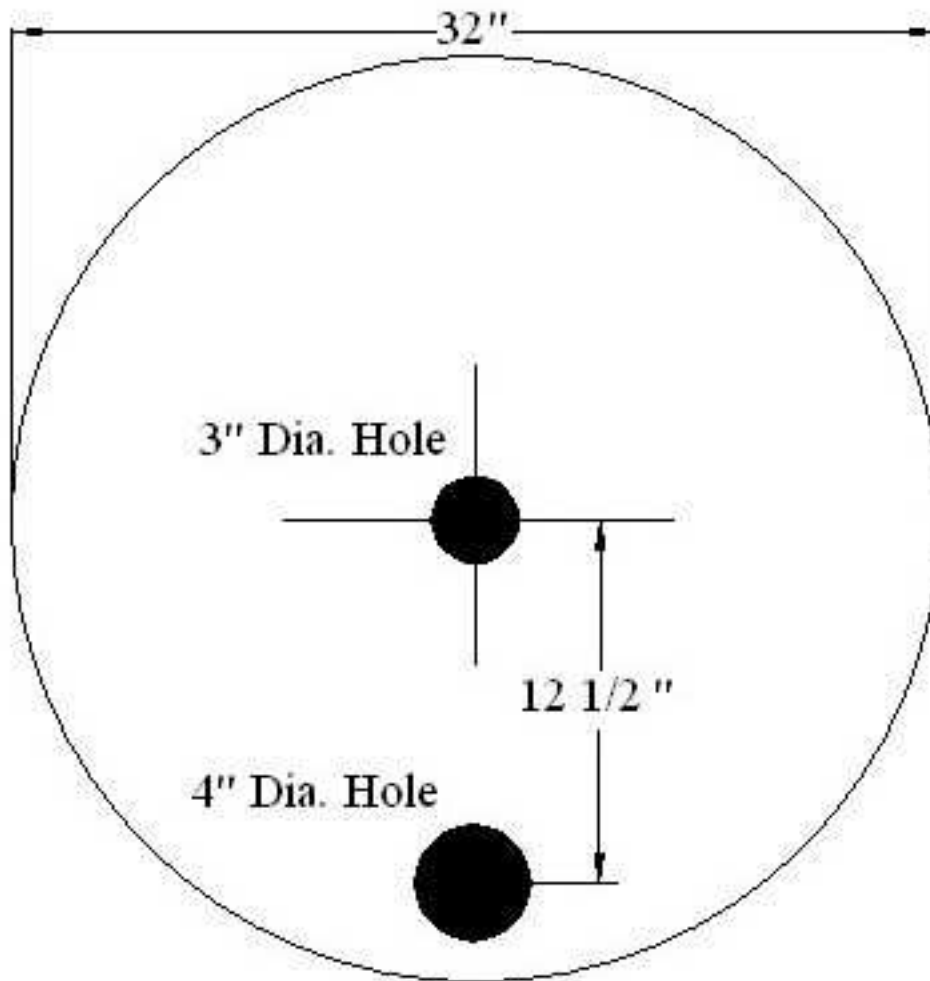


CAD Drawing – Bowl Detail



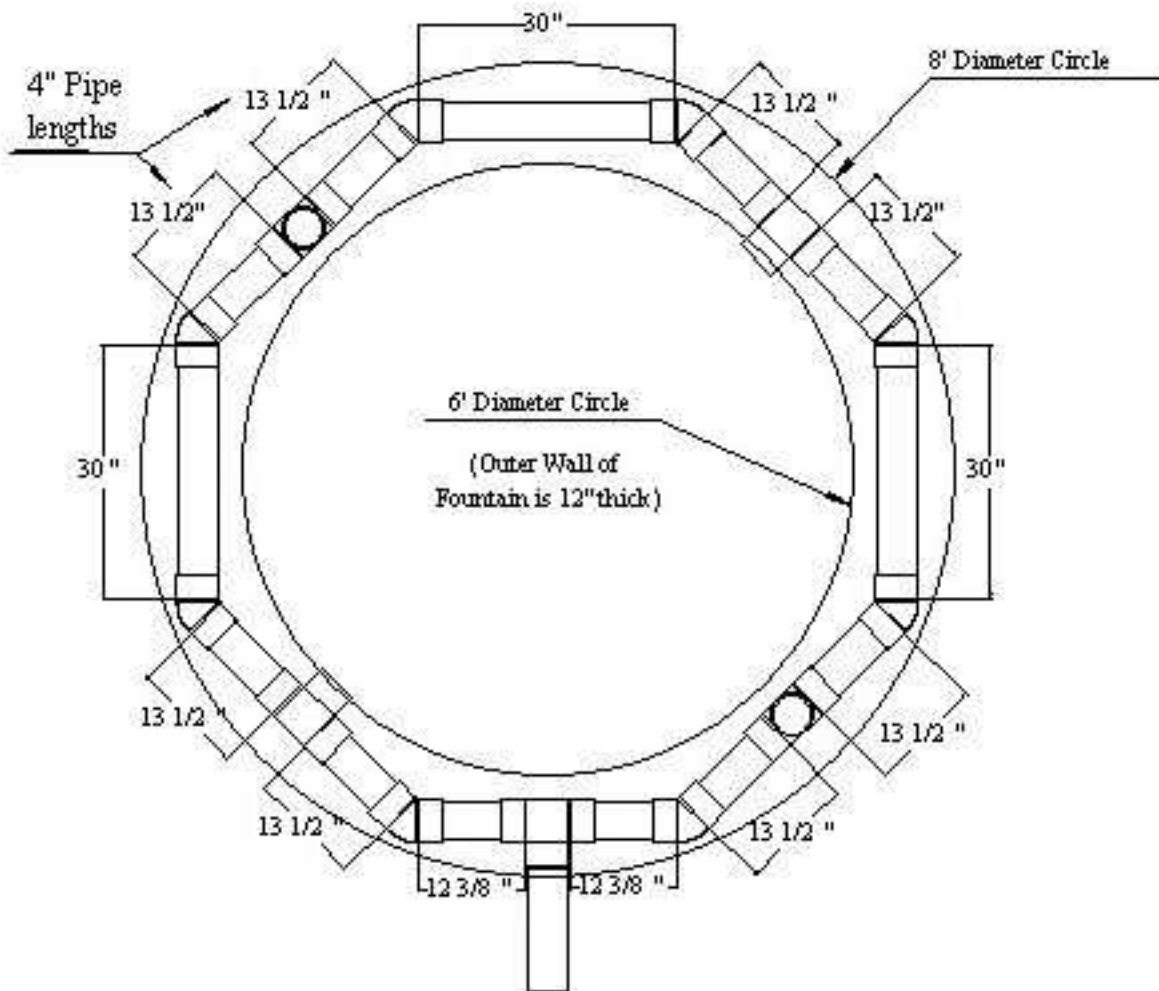


CAD Drawing – Hole Detail at Bottom of Bowl





CAD Drawing – Top View of Suction Loop inside Outer Wall of Fountain



Legend

Parts List for Pipe	
(8)	13 1/2" pipe
(4)	30" pipe
(2)	12 3/8" pipe

	4" T - Pointing up for Skimmer
	4" T - Pointing Sideways for Inlet
	4" 45° elbow



Fire/Water Bowl Design Notes

1. The diameter of the bowl was 4' which had a 12' circumference on the outer lip of the bowl where the water was spilling over. Based on a flow rate of 20 gpm per foot of circumference we calculated we needed a pump that could deliver at least 250 gpm (12' x 20 gpm/ft). A 2.5 hp pump would deliver the needed water but instead we decided to go with a 3 hp pump instead. The 3 hp pump worked great for this project!
2. Not shown in the CAD drawings are the 3 SAL light units we installed in the floor of the fountain that point up toward the water flowing out of the bowl.
3. We used a 12" stainless steel ring in the center of the concrete column.
4. The concrete column in the center of the bowl was actually a separate piece from the bowl that we epoxied to the bottom of the bowl after the bowl was put in place.
5. The dimensions shown on the CAD drawing, "Suction Loop" are the actual lengths of the pipe you need to cut in order to construct the 4" suction loop shown in that drawing. The dimensions shown ONLY work if you are using 4" pipe – those dimensions will change if you use a size other than 4" pipe.
6. Everything on this feature was controlled remotely – the fire, water and SAL lights. We did not budget in an Automated Pool Controller for this job so we just used X10 components. The X10 worked well for this job.