This week was a very successful week in the fact that many things were accomplished. Peter finished welding the feet to the pipes for the legs of the Standing Gardener. This can be seen in Figure 1 below.

![Figure 1: Photograph of Peter Welding.](image)

Once the welding was complete, the members of Team 2 were faced with another problem. The stainless steel feet had warped when it was welded and as it cooled. This phenomenon can be seen in Figure 2 below.
Figure 2: Warped foot on the leg of the standing gardener.

One way to remedy this problem is to put the pipe in a vice and hammer out the bends in the foot plate. This can be seen in Figure 3 below.
Figure 3: Peter hammering out the bends in the foot of a standing gardener leg.

All sixteen pipes (eight with a large radius, and eight with a smaller radius) had to be hammered out. A finished foot looks like the one in Figure 4 below.

Figure 4: Straightened foot on leg of standing gardener.

In the act of welding, sometimes the metal gets so hot, it starts to bubble out on the side opposite the welded side. This occurrence will not allow for a strong connection with the foot and the table top and table bottom. The only cure for this problem is to grind out the bubbles with a disk grinder. Figure 5a and 5b show this happening. Figure 5a shows a bubble that has formed, and 5b shows the same pipe after the bubble has been grinded out with a disk grinder.
Figure 5a and 5b: Before and after disk grinding the welding bubbles, respectively.

After the legs were complete, the standing gardener was roughly assembled. This can be seen in the Figures 6a and 6b below.
Figures 6a and 6b: Rough assembly of standing gardener.

The members of Team 2 have redesigned the position of the pipes to accommodate proper support system placement. A design of this new arrangement is found in Figure 7 below.
Figure 7: New placement of legs of standing gardener.

Future work:

The members of team to have to start lining up the pipes in the standing gardener assembly and marking where the holes are to be drilled in order to attach the legs to the top and bottom plate. The original design was with a wooden sheet over the top plate for thermal protection so the client would not get burned. This part of the design must be changed because wood warps and splinters with time and humidity. The members of Team 2 are in the process of finding a formica sheet to use instead of wood. Formica is a pressure-treated, laminated, plastic sheet of synthetic resin. It is resistant to heat and chemicals, so it should be optimal for the purposes of using it as part of the standing gardener.

Hours worked: 15