Work Completed: One rail is done and ready for testing although afterwards it will still require some modifications. To finish the rail a back stop had to be cut and welded in place and the ramp had to be milled to a smoother angle so the wheelchair won’t have problems ascending it. The angle of the cut on the ramp is approximately 15 degrees. The height of the first part of the ramp has been reduced from .25 to .085. The cut extends inward 1 inch. To produce this angle a miller’s knee was used to avoid changing the angle of the quill. A magnetic angle measure was used to check the angle. It was determined that sides will not be necessary on the ramp because it is scarcely an inch off the ground. This will lighten the final scale weight and save materials. The cost will be reduced as well because welding costs money.

Current Status: Work on the second rail has begun. the holes for the load cells are marked out and ready to be drilled.
**Future Work:** Some handles need to be purchased from home depot and it would be advantageous to drill the holes in the side of the new rail before welding as it will be difficult to attach the handle to the rail that has already been completed. Also need to determine a place to put the electronic box. The plates need to be cleaned up before the carpet is laid down to prevent oxidation. May need to cover the load cells with something to protect them and make the base more stable.

**Project Review:** The construction of the second rail should go faster than the first keeping the project on schedule. The only problem right now is that it may be difficult to attach a handle to the plate that has already been made but there should be someway around this. Also a decision still has to be made for the attachment method for the two rails and if it is even necessary.

**Hours worked:** 12