

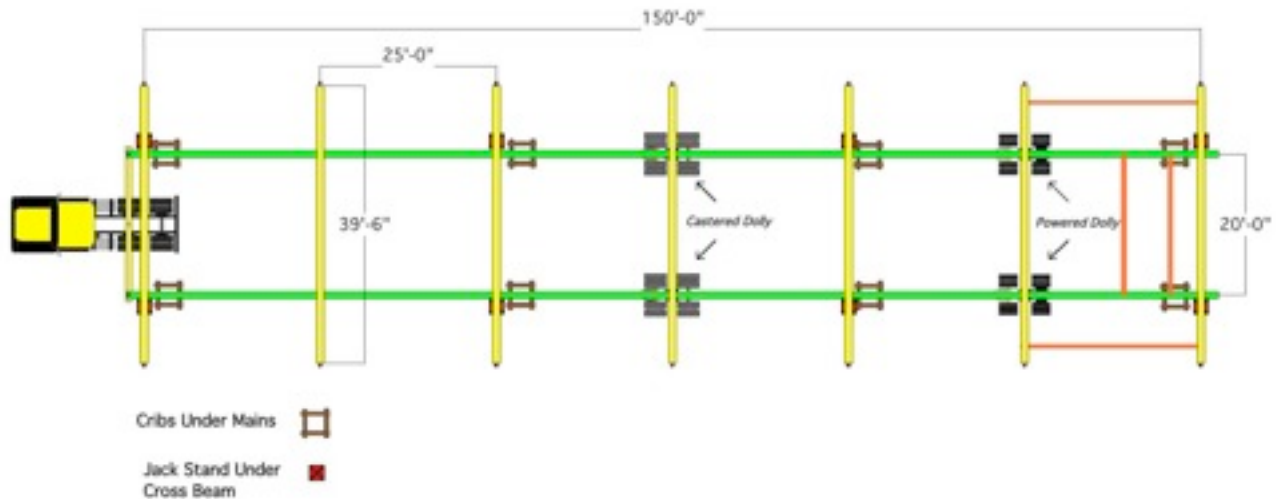
Ron Holland Housemoving, Inc. moved a 40 ft by 155 ft building for Pioneer Seeds in the fall of 2008. The building was moved approximately 300 feet on site in order to make room for a new facility. Wet fall weather made scheduling and moving more



difficult. Pioneer was very accommodating allowing Ron Holland Housemoving to work after hours bringing in equipment and on weekends to obtain the best moving conditions.

Even with re-scheduling for moving on the weekend, the route was still a bit slippery. Holland Power Dollies were used to help overcome some of the more difficult ground conditions and to push the rear of the building. The building was moved across an empty corn field with light snow on the ground. As the day progressed, the snow began to melt creating slippery conditions for the move. The limited slip traction of the Holland Power Dollies was definitely an asset on this move.

The building was a large steel structure weighing 33 tons. Each main beam used to support the building's frame consisted of three pieces of steel, 94 ft + 33 ft + 28 ft, which were bolted together to make the 155 ft main beam weighing in at 144 lb/ft. All seven cross beams were bar clamped with 1 ¼ inch bolts to the main beams. The total weight of the steel and building was 70 tons.



The above figure shows how the move was engineered. Cross beams were placed at intervals with jacking points as indicated. A unified jacking system lifted the structure using 8 jacks. The unified jacking system allowed the moving foreman, Art Schulz, to lift the building evenly to a position where the dollies could be placed under the load. Holland Plate Dollies were placed in the forward position behind the truck while Holland Power Dollies were placed at the rear of the building 50 ft from the caster plate dollies. The power unit to run the Holland Power Dollies was positioned on the main beams.

The move began with the truck pulling out onto the snow covered field and the power dollies pushing the rear. The field was very uneven at times; however, since the building was loaded on a three-point system the structure remained in a level plane. As the dollies traversed the dips in the field, the hydraulic cylinders in the dollies adjusted for the uneven ground to prevent the building from bending or twisting. Once the movers had negotiated the snow covered field, the building was pushed up onto the new concrete foundation completing another successful move.

This information is provided as our experience and is not meant to be used as a recommendation for steel placement in other projects. It is very important that a structural analysis is completed on every structure that is moved.