The Number Grid Puzzle

In the grid shown above place eight digits from 1 through 8 - one digit per circle - in such a way that numbers that differ only by 1 (1 and 2, 2 and 3, 3 and 4, etc.) will not be placed in circles directly connected by a straight line.
The Number Grid Puzzle (solution)

The unique solution (except for rotations and reflections) is shown in the illustration.