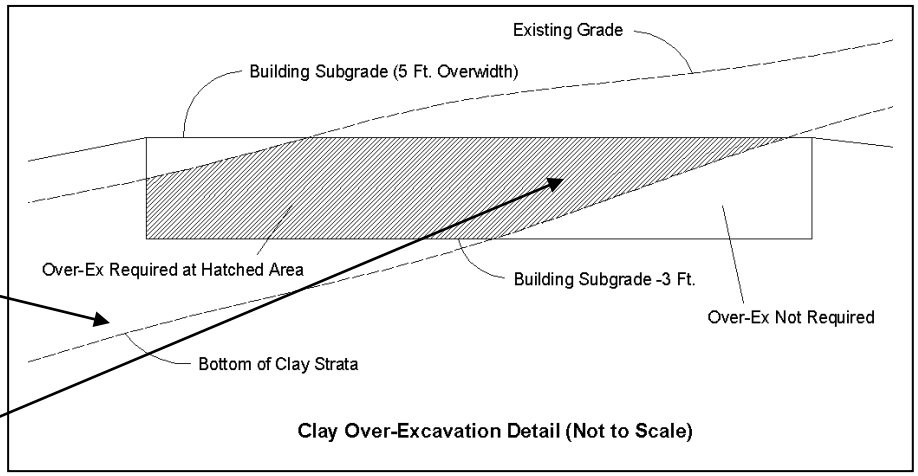
Modeling Vertically-Staged Earthwork
Variable-Depth Removal of Expansive Clay (Cont.)

Now we can turn our attention to creating the data that will model the **Clay Removal** surface. Depending on the vertical relationship between *Design Subgrade* (-3 feet) and the *Clay Strata* within the specified removal area, this will be either easy or less easy. There are three possible removal conditions …

1) Bottom of *Clay Strata* is more than 3 feet below *Subgrade* (easy—remove the *Clay* only to a fixed depth of 3 feet below *Subgrade*),

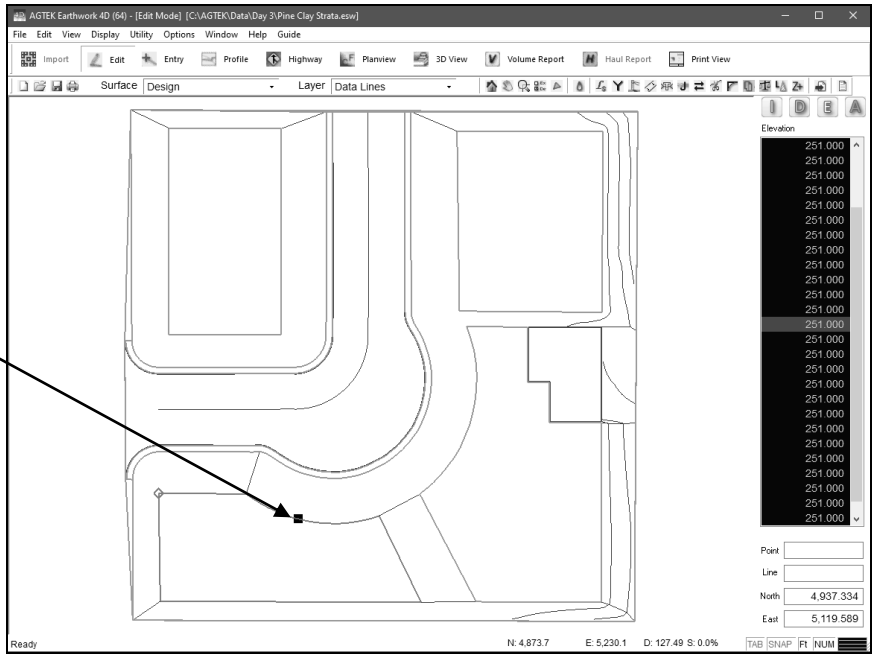
2) Bottom of *Clay Strata* is less than 3 feet below *Subgrade* (easy—completely remove the *Clay*), or

3) Both conditions exist within the removal area (less easy—a composite removal model will be needed).



Steps 5-9 will allow us to identify the actual removal condition that we need to model (but here's a spoiler alert: we need a composite removal model).

Step 5: Switch to **Edit** mode, set *Surface* to **Design** and *Layer* to **Data Lines**. **Left** click the building data line at Lot 1 then press **Ctrl-C** (or select **Edit > Copy** from the menu).



Tip: We're modeling this removal only at one building area in this example but, when multiple buildings are involved, ***press and hold*** the **Ctrl** key then **Left** click to cumulatively select additional building lines in Step 5 and copy all of them at one time.