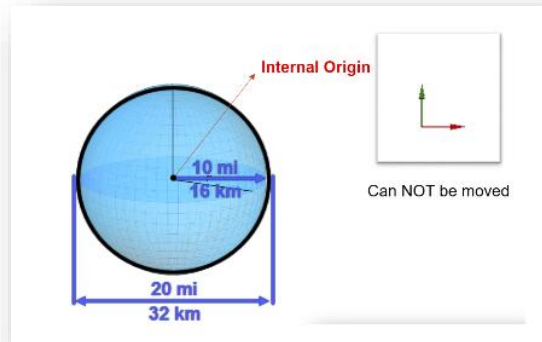
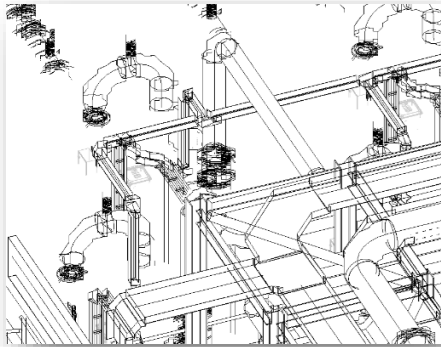


Autodesk Revit – Model Geometry Problems & Internal Origin

On a recent project our design team experienced an issue with a linked collaborative model which was being used for coordination. The linked model geometry was not displaying correctly making it impossible to use for coordinating the electrical services and containment.



After some investigation it was discovered that the issue was caused by the linked models project base point exceeding the 10-mile distance limit from the host models fixed internal origin.

The relationship between the internal base point, survey point, and project base point should always be considered when setting up a Revit project.

Internal Origin (0,0,0) – Fixed, used to align with imported model and drawing coordinates.

Survey Point – A real world coordinate aligned relative to site, used to create shared coordinates for linked models and drawings.

Project Base Point – Defines the origin (0,0,0) of the project coordinate system. Used as a basepoint for grids, levels, dimensions and allows project north to be set up from true north.

For best results on new projects and existing ones that have been inherited.

- Align the project basepoint to the internal origin in Revit project templates.
- Keep the Project Basepoint and Internal Origin with limits.
- Check the internal basepoint of linked models if issues persist.

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