

HOW TO: ACQUIRING OR PUBLISHING COORDINATE

There are two tools to synchronized shared coordinates between linked projects which are Acquire and Publish Coordinate.

- Acquire = pull
- Publish = push

It is important to understand the situations in which designers would pull or push coordinate between linked files.

1.0 Acquire Coordinate

A typical workflow for establishing a synchronized, shared coordinate system on a single building project is as follow:

- (1) A Grid & Level model is generated in which the survey point (SP) in the Revit project is coordinated with geodetic survey markers or station lines. The Grid & Level model is linked into the architectural Revit model. This file can be placed manually and then moved and rotated into a position relative to the building. Do not move or rotate the building to the linked Grid & Level model.
- (2) From the Manage tab, select Coordinate >> Acquire Coordinate. Pick the linked file and the origin of the shared coordinate system, and the angle of the true north in the Revit model will be synchronised with those in the linked file.
- (3) Designers should obtain a copy of the Grid & Level model and repeat steps 1 and 2 When linking other project models that have already been synchronised with the Grid & Level model, they can be placed using the Auto-By Shared Coordinate option.

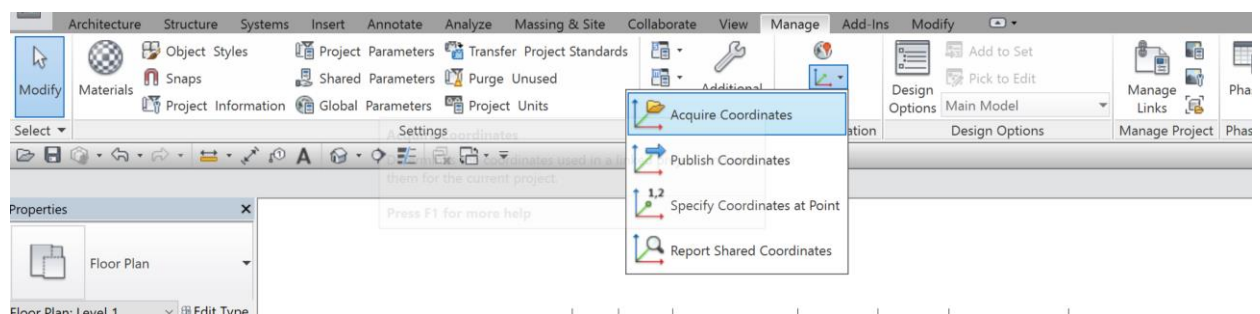


Figure 1.1 HOW TO: Acquire Coordinates

2.0 Publish Coordinate

For a project in which designers might be creating multiple instances of a linked building model, Publish Coordinate is the most likely used to push information from a Grid & Level

- (1) Opening the Grid & Level model and linking the building model into the Grid & Level file.
- (2) Adjust the position of the first instance of the linked building model to required location.
- (3) From the Manage tab, select Coordinates from the Project Location panel, and then click Publish Coordinates. Pick the linked building model.

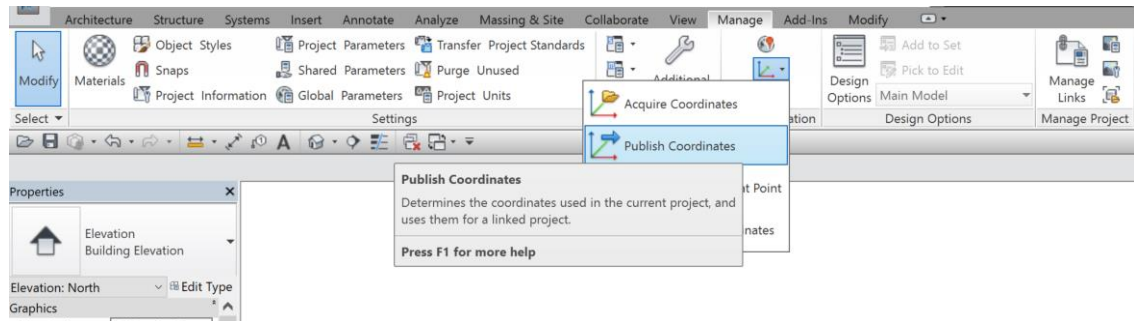


Figure 2.1 HOW TO: Publish Coordinates

- (4) The Location Weather and Site dialog box will open, and you will create a duplicate location, the required Location.

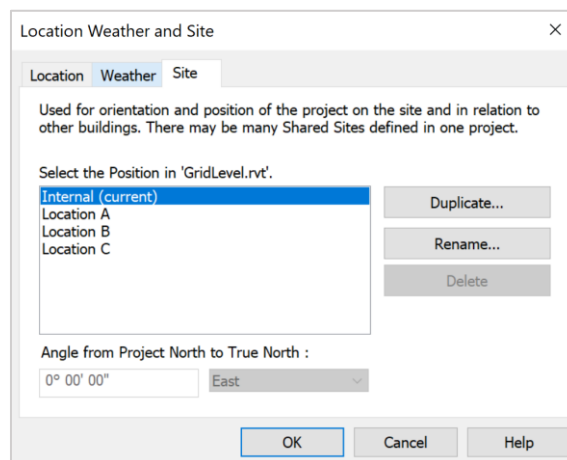


Figure 2.2 Location Weather and Site dialog box