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## Topic 5: HOW TO GENERATE INTERACTIVE TABLES FOR SUMMARY SHEETS

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### ORD Version

This workflow is intended for OpenRoads Designer version 10.08.02.05. The directions outlined below may respond differently in other versions of the Program.

### Contact Information

Corinne Willmerdinger and Erika K. Smith produced this workflow. Please send all questions, errors or overall complaints to [KYTCCaddSupport@ky.gov](mailto:KYTCCaddSupport@ky.gov) or call 502-782-4900 or 502-782-4878.

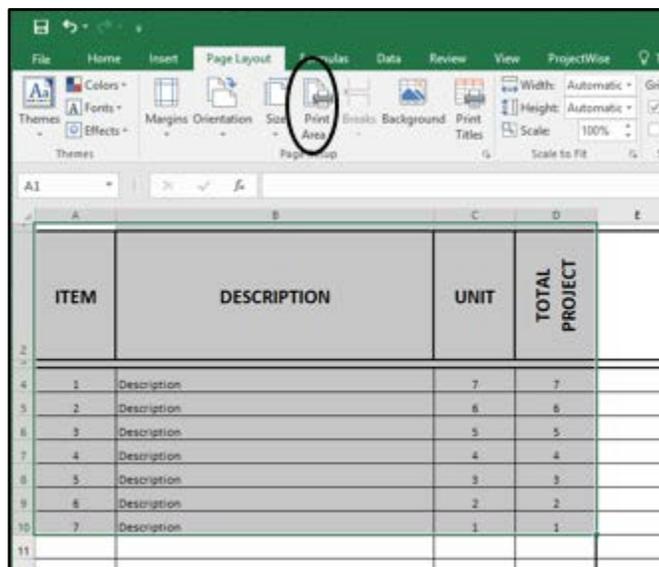
### The Master Excel File

Using a Master Excel File, containing pre-made tables for the General Summary, Paving Summary, Right of Way Summary, etc., one can create summary sheets in ORD with interactive tables. The pre-formatted tables in the Master Excel File seamlessly allow for only inserted data from the user. The attached tables to the DGN file allow the data to be changed and reflected inside both Excel and ORD. These tables are designed to go in the drawing models of detail sheets. This is the best location, given this release of ORD. When the detail sheets are created (General Summary, Typical Section, etc.), ORD will create a drawing and sheet model for you. Below are the steps to attach interactive tables in ORD. The Master Excel File is located at the following file path:

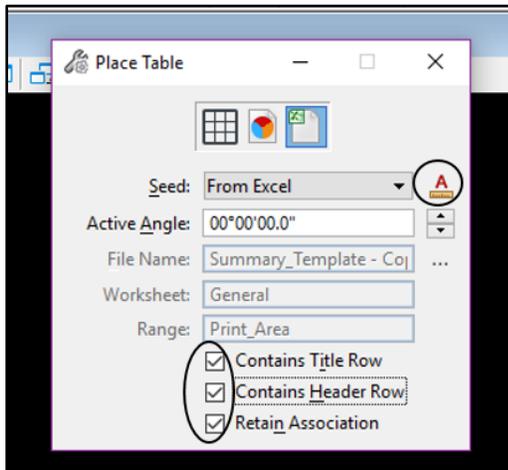
"C:\KYTC\_ORD\_Standards\Organization-Civil\KYTC\_Standards\_OC\Data\KYTC\_Summaries\_Template.xlsx"

### Workflow

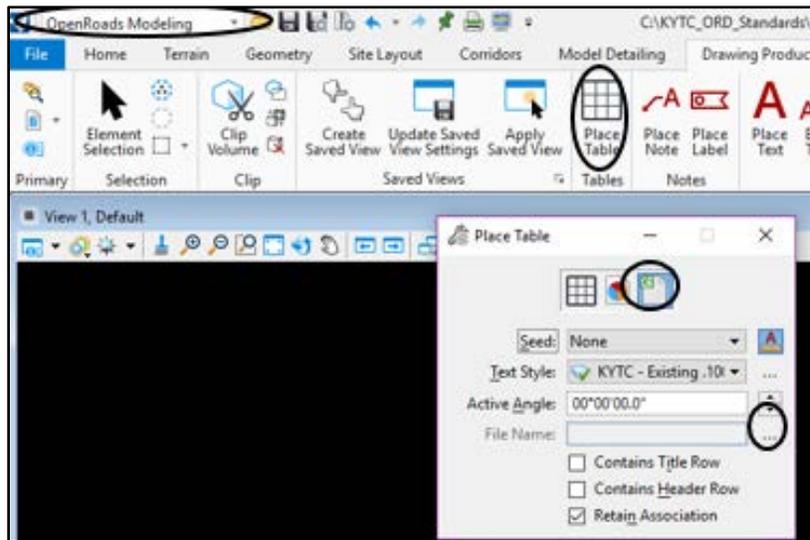
In your Master Excel File, open the sheet with the table intended to attach within ORD. Have all data inserted, by the user. The print area must be set in order for ORD to know what portion of the Worksheet in Excel to attach. Set the print area by first selecting the entirety of the table that one wishes to include. Then, under the Page Layout tab, click "Print Area" and "Set Print Area". See the graphic below.



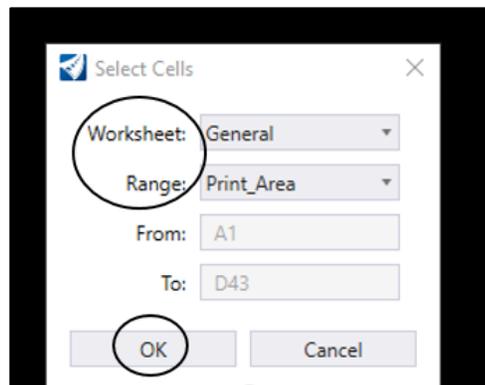
Next, in ORD, under the OpenRoads Modeling Ribbon Workflow, under the Drawing Production tab, click "Place Table". A dialogue box will appear. At the center-top of the box, select the picture of the Excel file. Then, in the same Place Table dialogue box, make sure the "Lock Annotate" icon is "on" and all other boxes are checked. See below for the dialogue box:



Next, to the right of “File Name”, select the three dots to select the Master Excel File. A depiction is below:



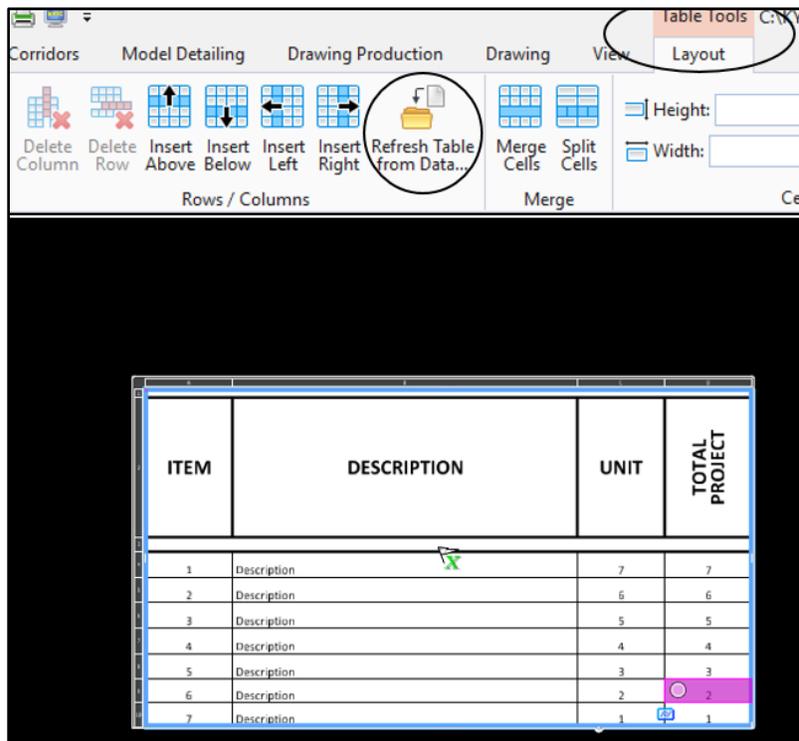
Next, a “Select Cells” box will appear. Select the appropriate Worksheet inside the Master Excel File associated with the table you wish to attach. Under Range, select Print Area (here is where you could also manually input the range or have ORD decide for you). Select “OK” when finished.



Next, hover off the dialogue box and click where the table should be placed, using the crosshair as a guide. After the table has placed, the flag icon, when hovered over, allows one to open a link to the Excel File, open the Excel File in Excel, or remove the link. The flag icon will appear as follows:

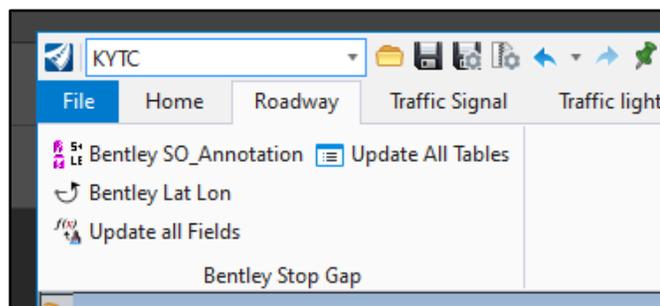


To make any edits to the table or to update the data in the table, click on the table. A Layout tab under Table Tools will open along the top of the screen. Here is where one can select “Refresh Table from Data”. This allows one to update all tables directly in Excel, with ease, and seamlessly update said data in ORD, without manually updating the data by hand in ORD. This also allows for an updated Print Area if the range of data has changed, but one must still update the Print Area in the Excel file.

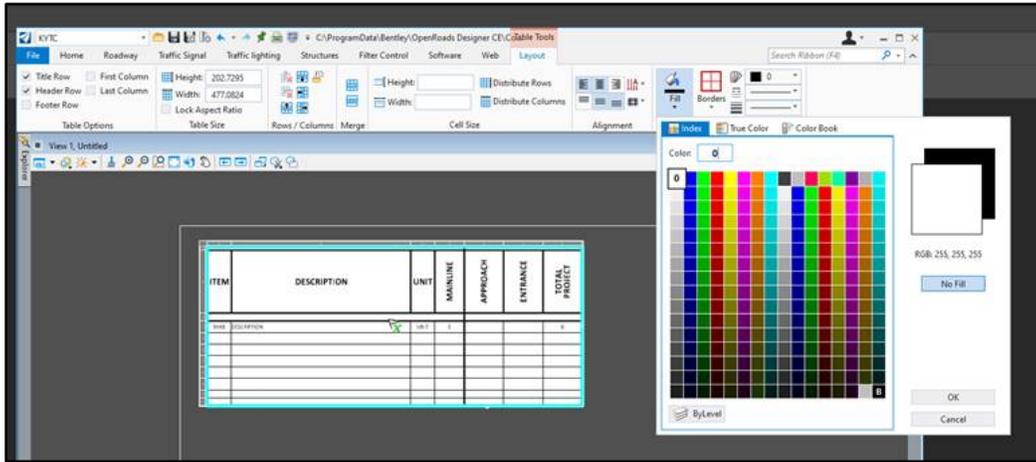


Any other changes to the table are done under the Layout tab under Table Tools; however, all of these changes can be done directly in the Excel File, and simply updated in ORD. That way, the Excel File stays current and up-to-date.

Furthermore, a VBA was written to update all tables in the Drawing models, as well. This VBA will go through the user’s file, go into each of the drawing models, and update the tables. This VBA is found under: KYTC – ROADWAY – UPDATE ALL TABLES.



Lastly, “fill” needs to be turned off on the tables. If not, it will print a black shape. Therefore, after a table is placed in ORD, the “fill” will need to be turned off on each one. NOTE: if the user updates the table, “fill” will have to go be turned off again. Below is how this step will appear:



ITEM	DESCRIPTION	UNIT	MAINLINE	APPROACH	ENTRANCE	TOTAL PROJECT
XXXX	DESCRIPTION	UNIT	0			0