Purpose of CHROMIC5

Statement of Dilemmas

1. Inconsistencies between modules from the genesis file and system builder in Salesforce has created problems for the installation team, support teams and design.
2. The roof numbers change as soon as the job gets to design. This creates confusion among the support teams and design.
3. Design has not had a way of recording the changes in the roof layout at every step of the design process.
4. Design has no efficient method of knowing what kind of changes the roof layout has from when the drawing was last sent to the township and comparing them to the current As-Built.

Proposed Solutions

1. Create an interface that can take roof information from Salesforce and from the genesis file and compare them inside CAD to see whether they are the same or not.
2. Place the correct roof ID on the roof matching the genesis file. Make a roof schedule that displays all the roofs on the house whether or not they have modules on them.
3. Make a snapshot of the current roof information and place it somewhere where design can access it.
4. Check the roof information snapshot of the last sent revision to the township and compare it to the As-Built roof information.

Implemented Solutions

* 1. Use Conga to take System Builder roof information from the Design Object in Salesforce and place it in the Design Excel Template.
  2. Use the VBA based Draw tool to bring the roof layout into CAD, take the genesis roof information and place it into AutoCAD’s internal database.
  3. Bring in the System Builder roof information from Excel into CAD via a new program developed for CHROMIC5 and place it into AutoCAD’s internal database.
  4. Run a new program developed for CHROMIC5 to compare the genesis roof information and the System Builder roof information and display whether there are any discrepancies.
  5. Use the VBA based Draw tool to place roof IDs on their respective roofs and to gather the maximum number of roofs.
  6. Run a new program developed for CHROMIC5 to generate a new roof schedule with the number of modules on each roof, pitch and orientation. All other roofs without modules on them are denoted “N/A”.
  7. Use a VBA based program to recognize the current revision tag and create a snapshot of the current roof information in a sheet in the Design Excel Template.
  8. Recognize the last revision tag sent to the township and bring in that roof information. Place this information into AutoCAD’s internal database. Use a program developed for CHROMIC5 to compare the roof information from the last revision sent to the township and the current roof information.

Future Developments

It is perceived that this method can be used to track equipment and the interconnection method to further recognize changes to the permit and automate them.