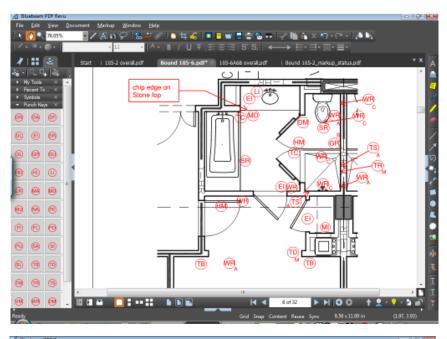
### Real World Results - Using Bluebeam PDF Revu for Punchlists and Back Checks

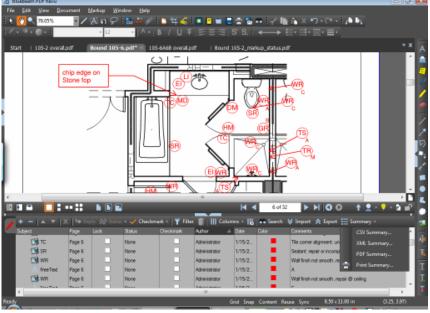
# Sample - Screenshots from Bluebeam PDF Revu

Punch List Keynotes or Symbol Library.

Keynotes or Punchlist Symbols can be dragged and dropped onto the sketch. Each Keynote has associated comments or text which is predefined to describe the work to be completed. For example, "GR = Grout Repair: clean, smooth" or "EI = Electrical: Incomplete switch or other installation."



An output list of Punchlist Items is automatically generated as each Keynote is placed on the sketch. This list can then be output to either an appended PDF file to the sketch or an XML file which can be opened and viewed in Excel.

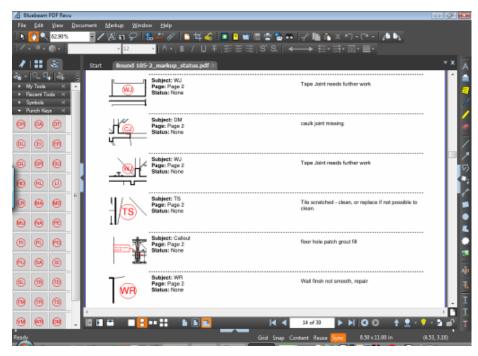


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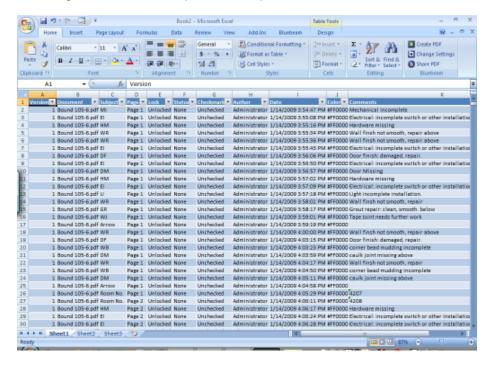


#### Real World Results – Using Bluebeam PDF Revu for Punchlists and Back Checks

Sample - Screenshot of Output from Bluebeam PDF Revu as a PDF file and as an Excel file



The above PDF punchlist includes a thumbnail view of the Keynote on the sketch in addition to the selected fields and item descriptions. Each thumbnail is hyperlinked back to the original location in the sketch for ease of navigation. Below is the punchlist output to Excel for distribution to subs.

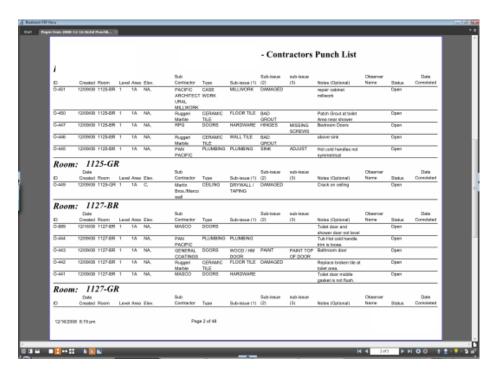


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### Real World Results - Using Bluebeam PDF Revu for Punchlists and Back Checks

Sample – Screenshot of competing technology output versus Bluebeam PDF Revu



The above sample output from the competing technology highlights its limitations. The only output is text, which makes back checking, to go back and locate an original item, almost impossible. To improve the efficiency, the client put together his own Excel spreadsheet which was then used by the General Contractor and himself to do back checking. Essentially, the competing technology's output had little value.

For the first phase there were several back checks. At first back check, only half of the items that were documented by the client were completed by the subcontractors. Additional back checks were required to complete the punch items. This result is likely due to the lack of a visual relationship with the punch item to the physical location, which in the Bluebeam example is represented by the sketch. With only a list of items, some of which can be very large, the subcontractors have very little to go on as to whether the item they are repairing or believe repaired matches the item on the list itself. This increases the rework, back checks, and costs on the project.

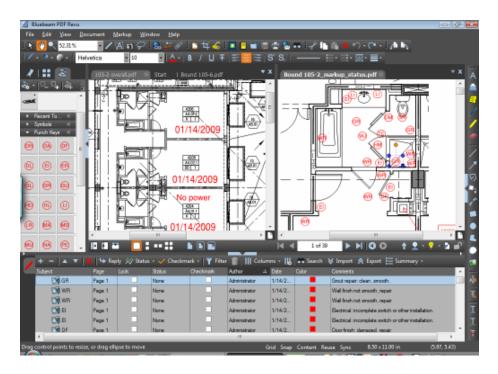


### Real World Results - Using Bluebeam PDF Revu for Punchlists and Back Checks

## Sample - Bluebeam PDF Revu example with split views, keynotes, and punchlist output visible

The setup illustrated below can be used for back check wherein a user would select an item in the lower list, that item would automatically highlight and become viewable in the above screen, and if the item has been corrected, by simply changing the status from none to complete, the user name and date stamp will automatically be applied. Once a room is complete, a date stamp can be placed on the drawing to indicate completion. This view can easily be opened or closed with a click of a button either using the file Tabs at the top or via the split screen technology.

Please note, once an item is marked complete, the filter function can be used to highlight the remaining items that are not complete, a new list generated, and redistributed to the relevant subs in either PDF or Excel format. If another back check is required, the same document, filtered, can be used for the punchwalk and marked as complete accordingly.



The project study was conducted to highlight how Bluebeam PDF Revu can be used in the punch process. The findings indicate that the technology is sufficiently flexible to accommodate this project, the user interface is simple with minimal learning required, and the output is applicable and useful to all parties. What is most amazing is that Bluebeam PDF Revu costs \$149.00 (\$2700 including a Tablet PC) while the competing technology runs \$85,000.

