42nd Annual State Construction Conference

March 2, 2023

NC DOA
Department of Administration
State Construction Office

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Department of Administration
State Construction Office

Interscope and Bluebeam Update

Presenters

LeaAnne Hahnel
Interscope

Isaac Loydpierson
Bluebeam

Interscope Update

LeaAnne Hahnel, BSA

Interscope System Administrator

Interscope Stats

Number of Active Users

University	Community Colleges	Agencies	Designers	Contractors
388	211	433	1153	843

Total Active Users

3,028

Number of Problem Reports Submitted in 2022

392

Total Help Requests in 2022

Process Change

- Agile Methodology
- Azure
- Sprints
- Testing Process
- Release

Number of Major Changes in the System

17 Sprints

63 work tasks

New Development

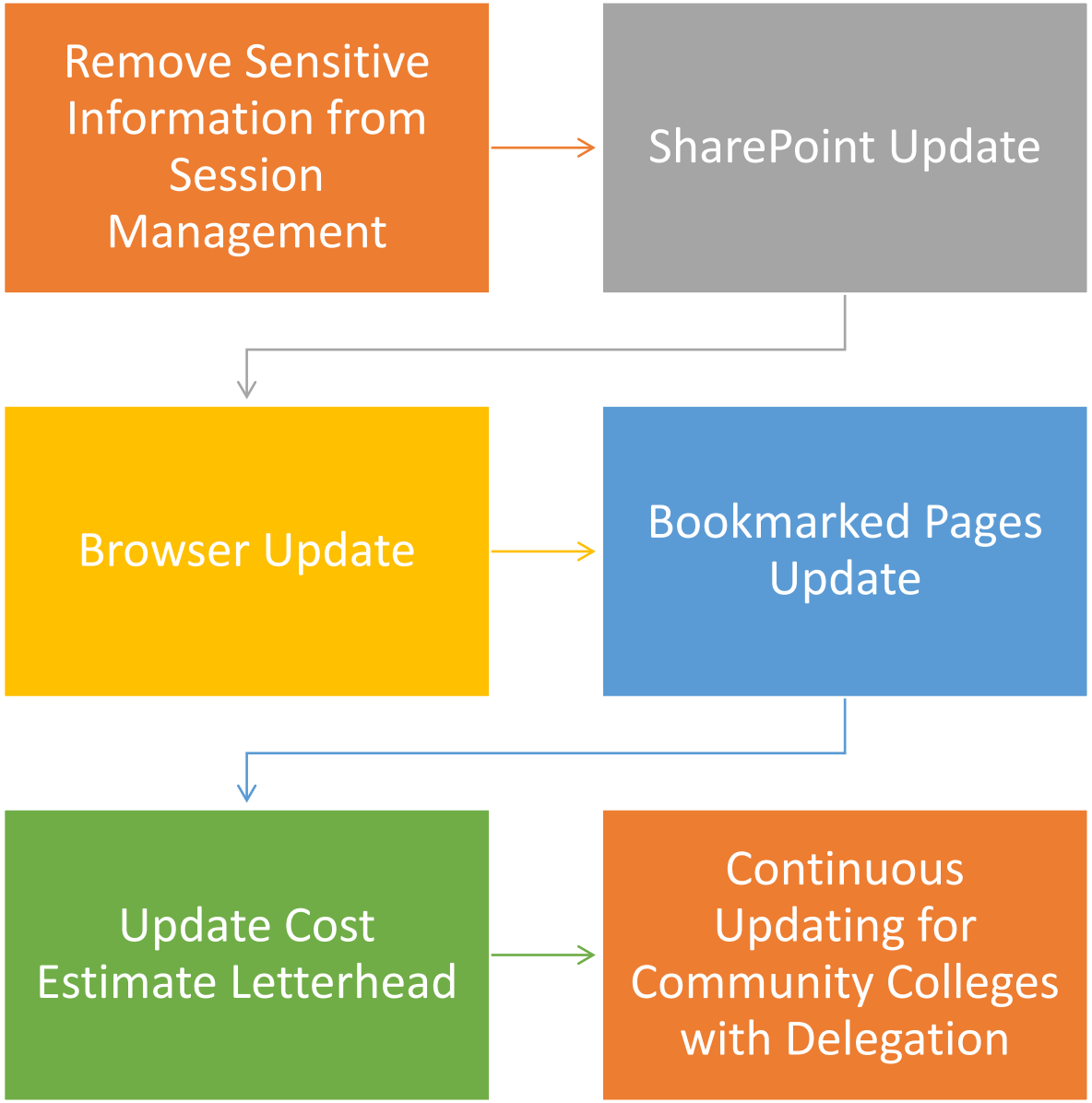
Bug/System Issue

System Maintenance

New Development

- Senate Bill 105
- SCIF
- Increase in NCAS field size
- University System Increase in Delegated Authority to $4m
- Sunsetting of EO 143

System Maintenance



Bugs System Issues

- Inspections Page
- FCAP Deficiencies
- Design-Build Change Order Workflow

Data Clean Up

1

Please take a moment to close out any projects

2

Record your HUB data

3

Update statuses to match the actual project

Interscope Training

2023 Interscope Training Calendar.pdf (nc.gov)

Interscope Contact Information

LeaAnne Hahnel, BSA

Interscope System Administrator

984-236-5429

interscope@doa.nc.gov

www.nc-sco.com

Bluebeam Update

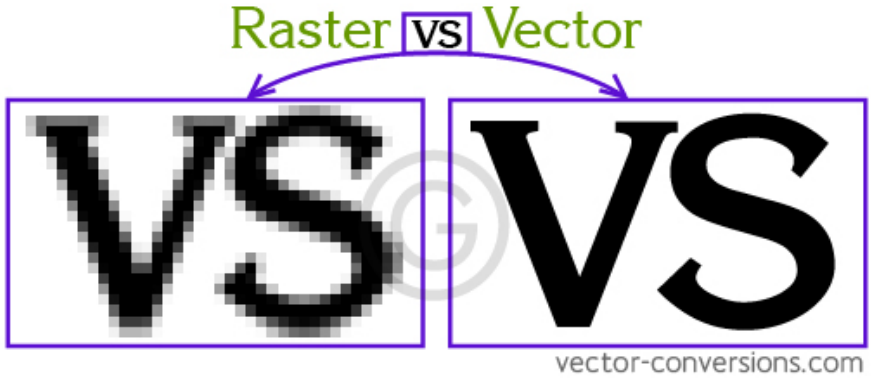
Isaac Loydpierson, PE

Bluebeam Transition

- Began transition to Bluebeam for Electronic Review in 2018.
  - Recognized the need for an electronic review process.
    - Decreased costs and review times.
  - Chose Bluebeam as the PDF software for its wide functionality.
    - Strong tool sets
    - Document management/Cloud integrations
    - Report functions
  - Committee formed to establish workflow
    - Attempted to create an easy transition for Reviewers and Designers.
    - State Construction Manual Section 512 created to establish guidelines.
- We are currently at 100% Electronic Review.

SCM Section 512

- Reference to the *Guidelines for Construction PDF Documents* as put forward by the Construction Progress Coalition.
  - Pay specific attention to Section 2 (PDF Document Quality) [This is refering to V2.0 of these guidelines which is not currently finallized] of this document as it helps improve the ease and quality of our reviews and will improve references to the documents throughout construction process.
  - Some of these Section 2 guidelines are required by our State Construction Manual Section 512 (B)(1)(b). This includes:
    - Truetype Fonts
    - Vector Drawings

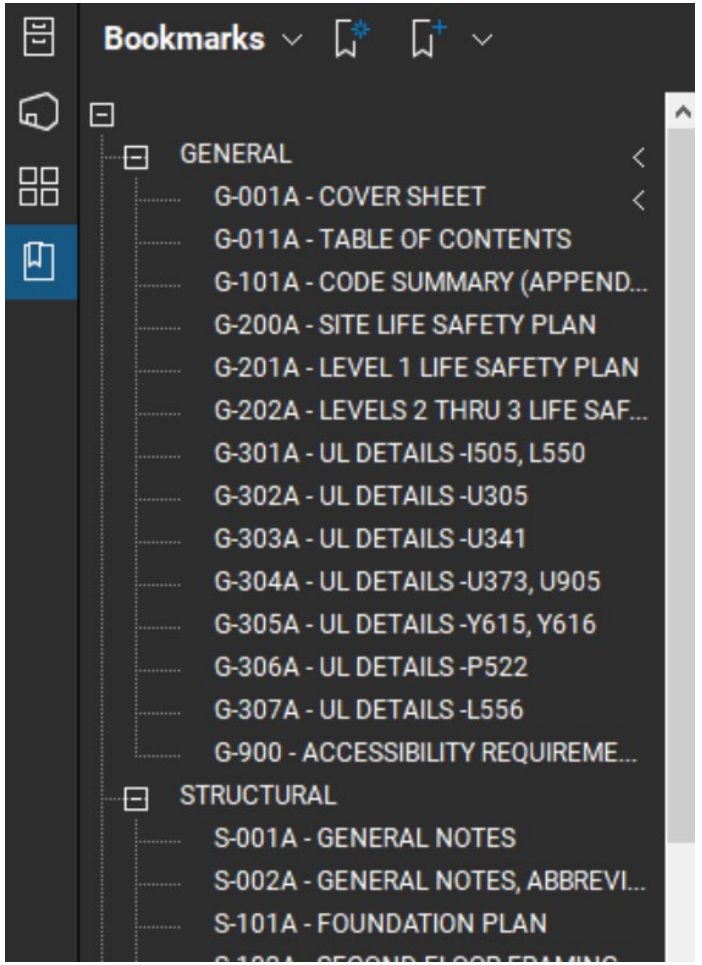


SCM Section 512

- Additional SCM Requirements:
  - Drawing set shall be submitted in ONE (1) PDF file (with some rare exceptions for very large projects, in which case files shall be split up by discipline).
  - Electronically recognized page labels.
  - Flattened markups (from Autocad conversions).
  - Greyscale color scheme.
  - DO NOT send us Locked documents that cannot be edited as this makes our commenting impossible.

Electronic Page Labels and Bookmarks

- Bookmarks make a big difference with document navigation.
  - Will work as well as Page Labels for Drawing Sets but is a very helpful to Specifications and Project Manuals.
- Page labels assist with navigation as well as more clear comment reports.



Isaac Loydpierson, PE (2)

Subject: Electrical & Fire Alarm
Page Label: 1
Page Index: 1
Author: Isaac Loydpierson, PE
Date: 2/6/2023 10:58:25 AM

Comment without Page Label.

Subject: Electrical & Fire Alarm
Page Label: A101
Page Index: 2
Author: Isaac Loydpierson, PE
Date: 2/6/2023 10:58:54 AM

Comment with Page Labels.

Document Naming Convention

- File Naming:
  - Files for submitting shall be labelled following the SCO convention. State ID – Agency – Current submittal – phase – document
    - Ex: XX-XXXXX-XX-UNC-CD-DWG [First submission]
    - Ex: XX-XXXXX-XX-UNC-CD2-DWG [Second submission]
    - Ex: XX-XXXXX-XX-UNC-CD-CE [Cost Estimate]
  - For listing of all labelling convention, see State Construction Manual Appendix B.

Other Helpful Document Modifications

- Links (Batch link feature in Bluebeam)
  - Connects all references to pages or details to the actual page or detail.
- Electronic Page Labels for Specifications.
- More detailed Bookmarks on Drawings.
  - For example, bookmarks leading to specific details instead of full pages.

New Workflow

- Currently using Studio Sessions exclusively
  - Document Organization is more difficult with large projects.
  - Facilitates real-time collaboration allowing Reviewers to complete reviews simultaneously.
  - Designer (or users Outside of SCO) Access must be actively managed.
  - Studio Sessions must be managed to remain active for drawn-out projects.

New Workflow

- Will now use a combination of Studio Projects and Studio Sessions.
  - Full Projects will live in Studio Projects.
  - Individual review submittals will use Studio Sessions.
  - This will provide for better organization of documents and more Designer access.
- How this affects Designers and non-SCO parties
  - You will never have access to our studio sessions.
  - You may have view only access to the Studio Project full time, even when a review is ongoing.

Bluebeam Revu 21

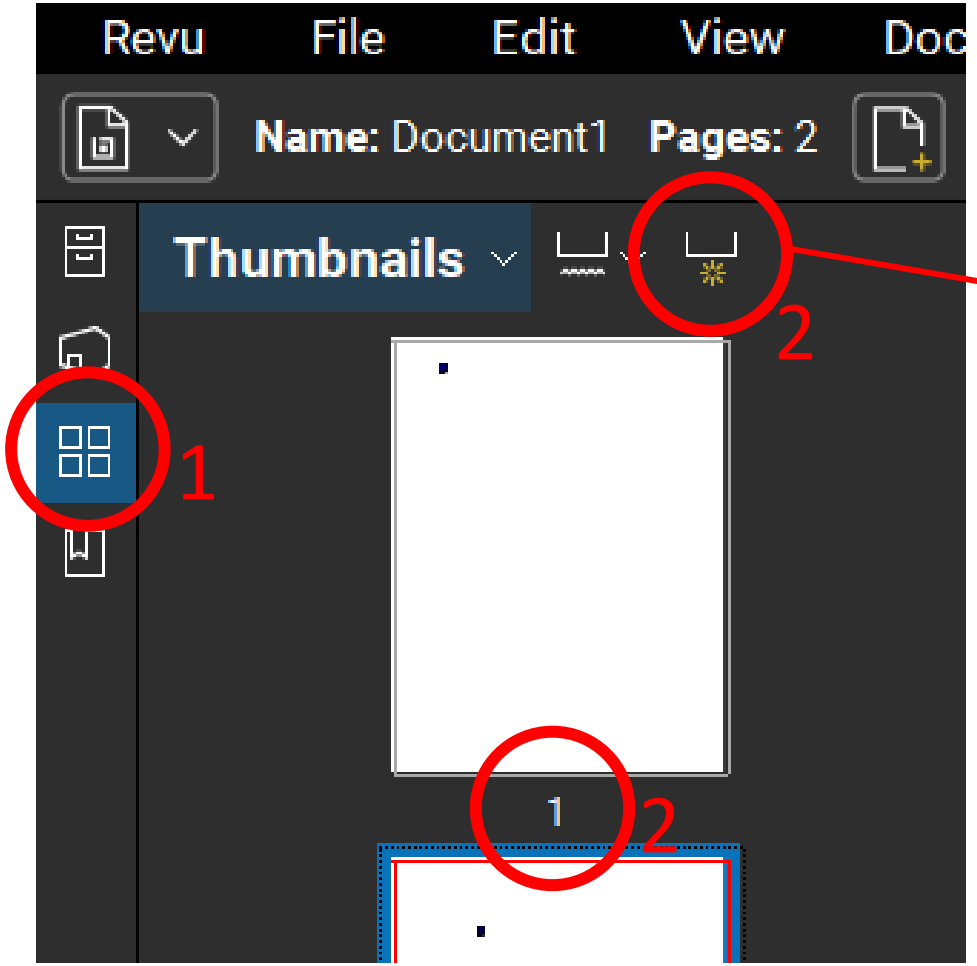
- New software version transition in process.
- Will allow us more access to Bluebeam from more places.
- Will allow us to manage our users more efficiently.
- This upgrade along with our new workflow will allow easier access for our Monitors and Inspectors.
  - Bluebeam Cloud has potential for field access to documents.
  - Workflow process for this is still under development.

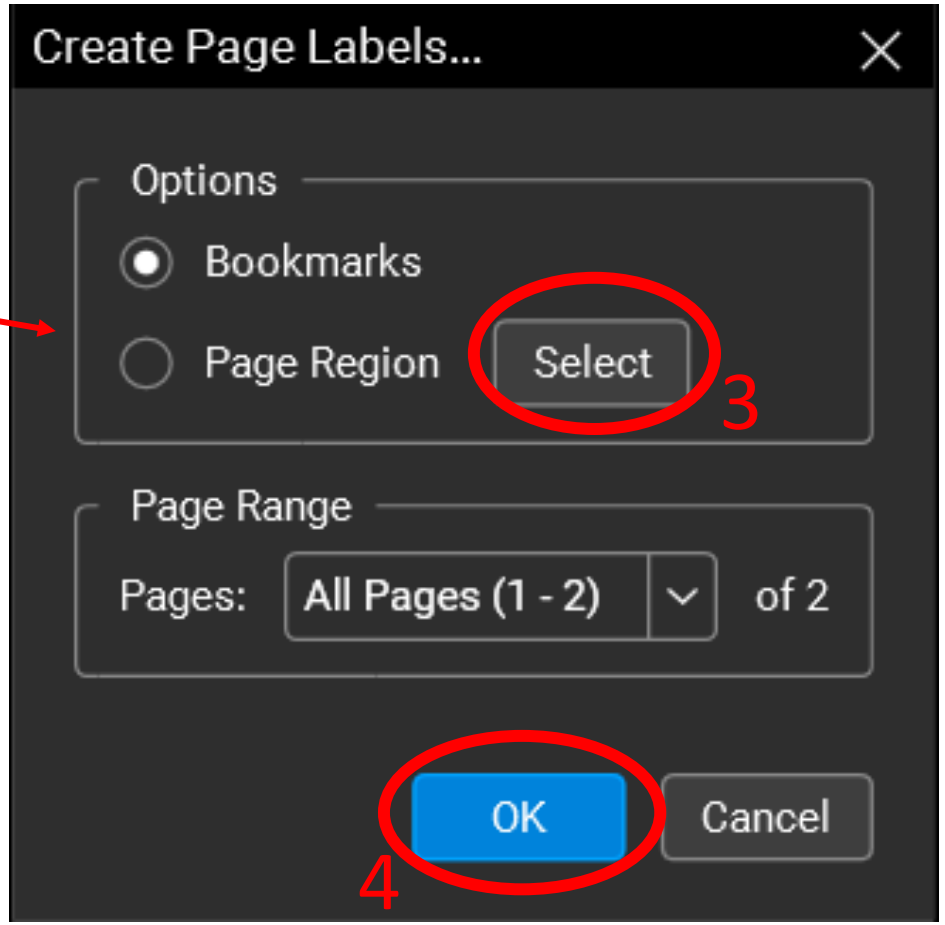
Contacts

LeaAnne Hahnel – Leaanne.Hahnel@doa.nc.gov

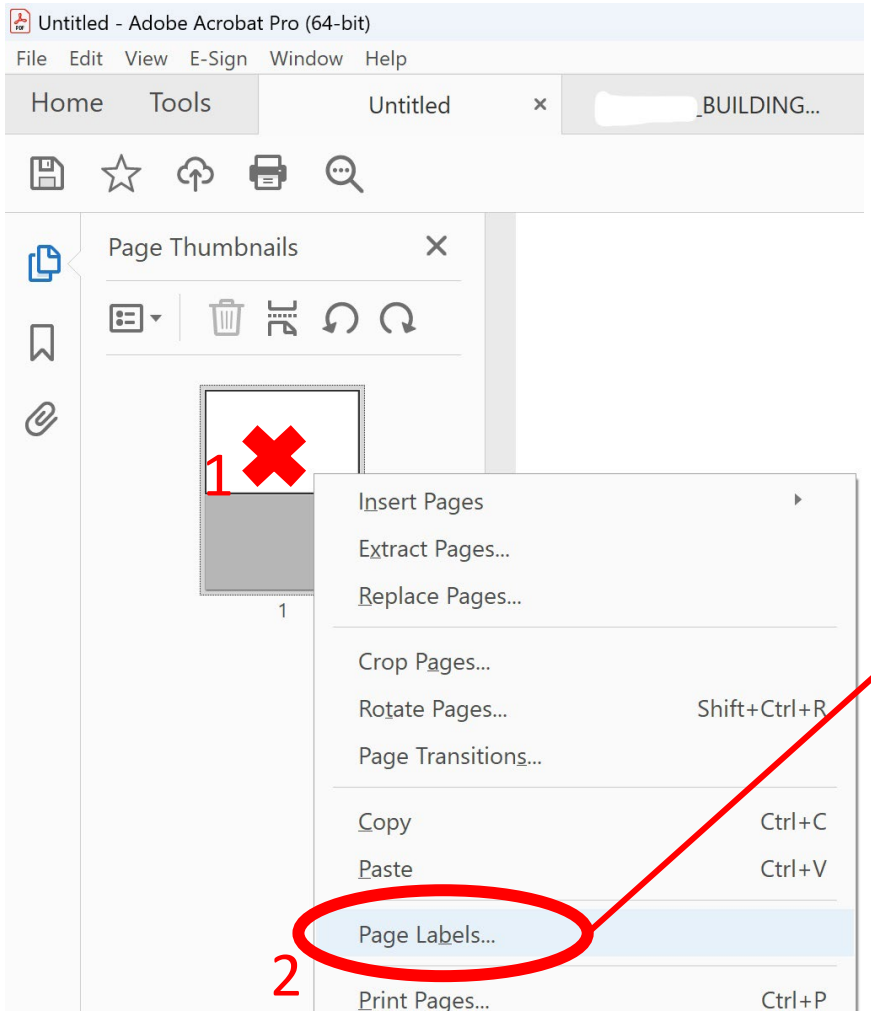
Isaac Loydpierson – Isaac.Loydpierson@doa.nc.gov

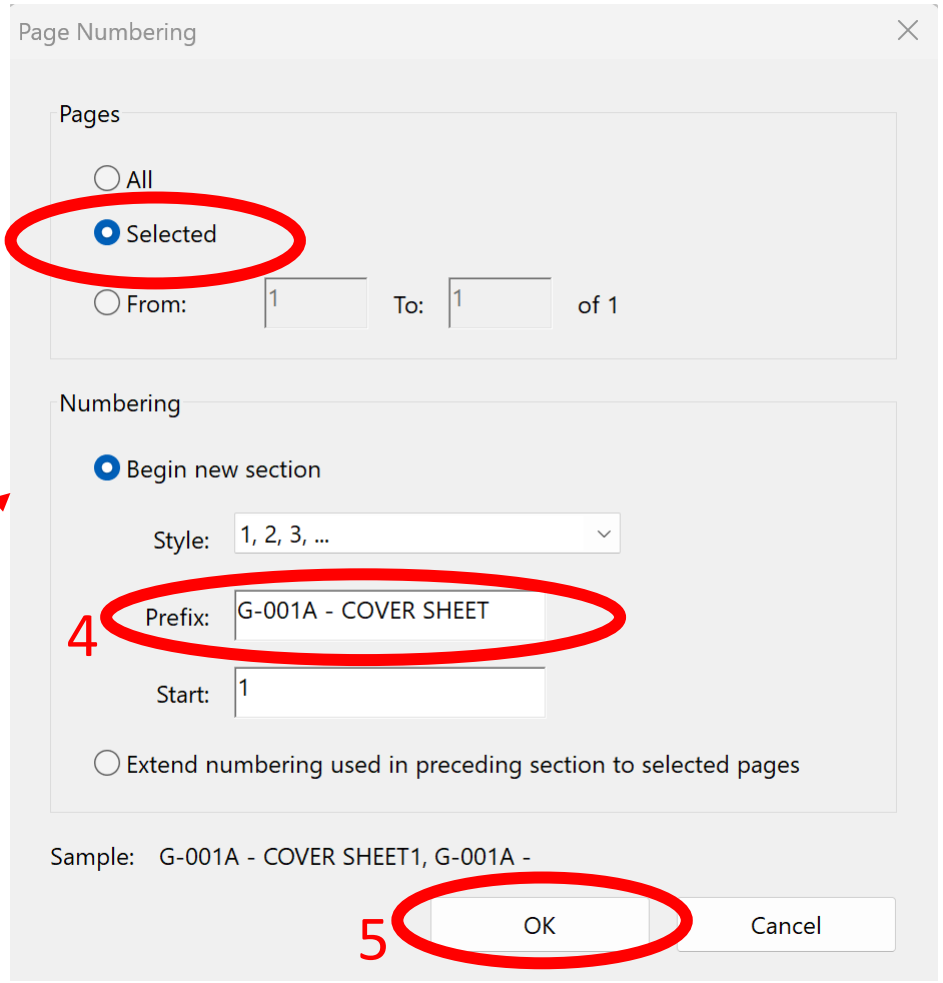
Creating Page Labels Using Bluebeam



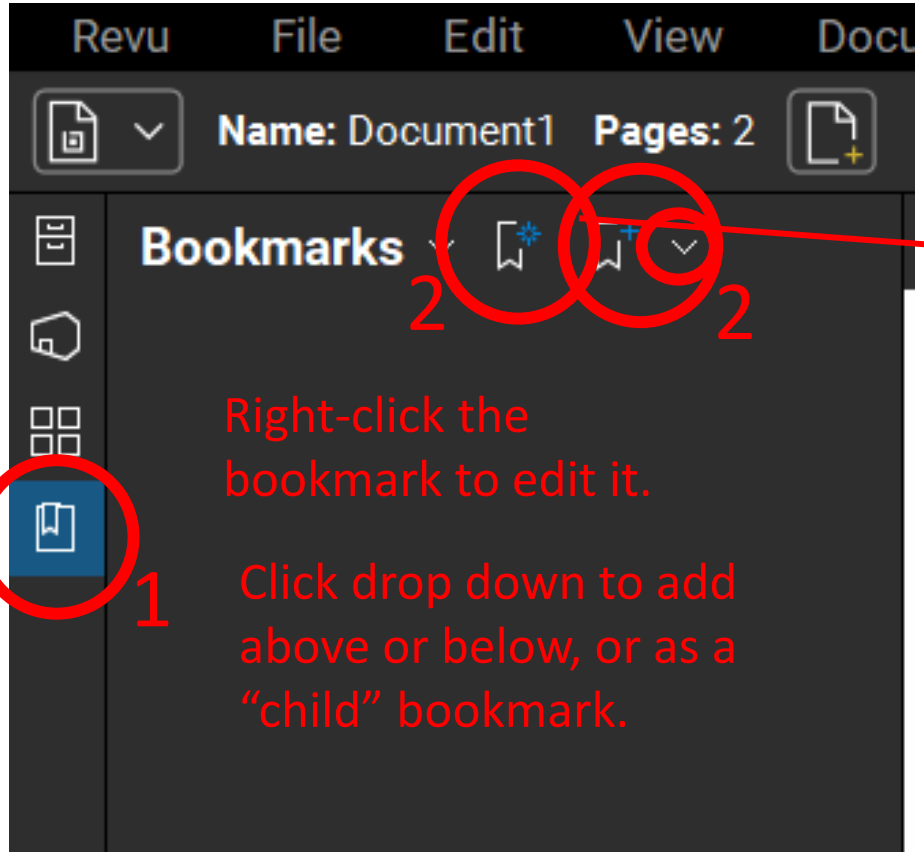


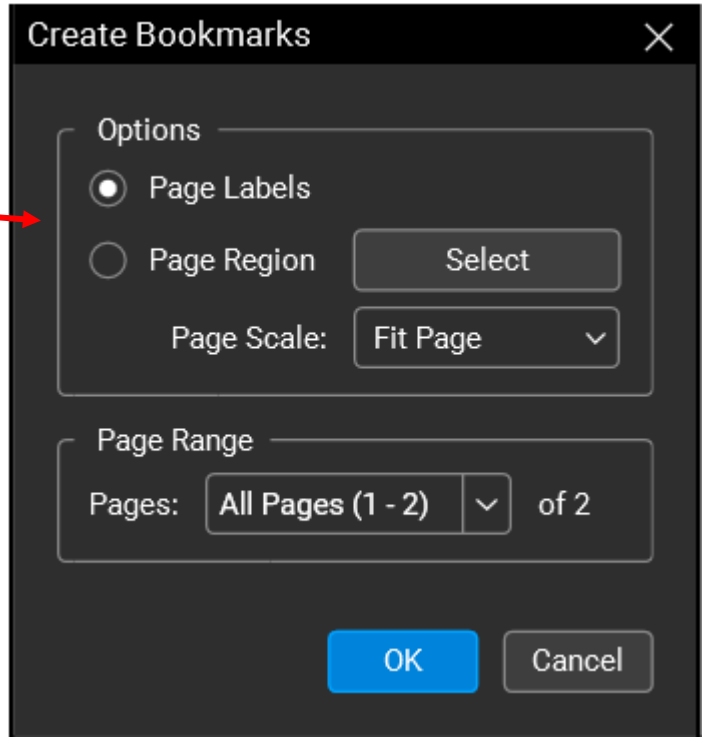
Creating Page Labels Using Adobe



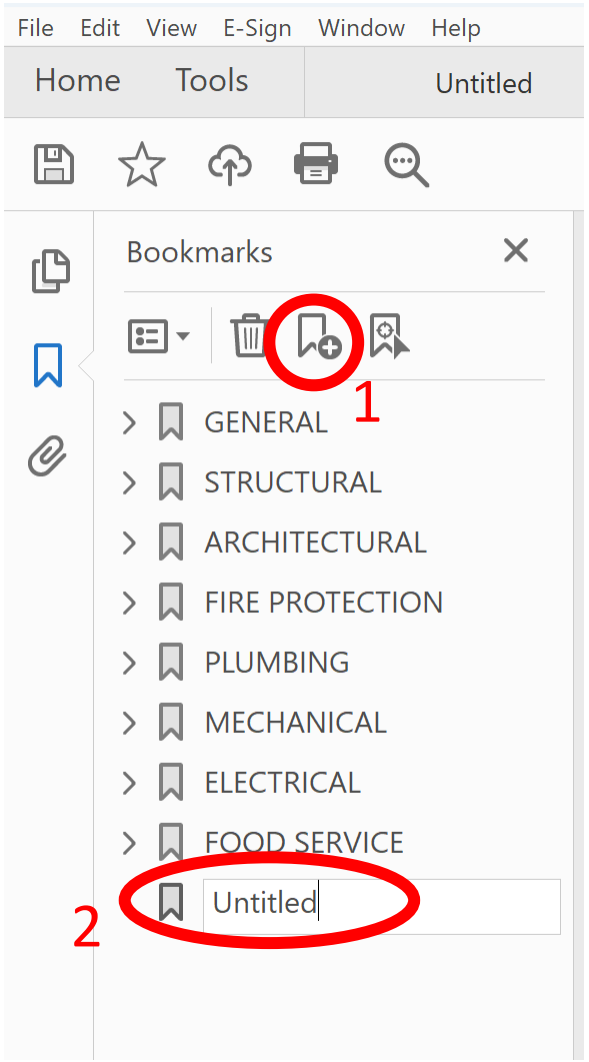


Creating Bookmarks Using Bluebeam

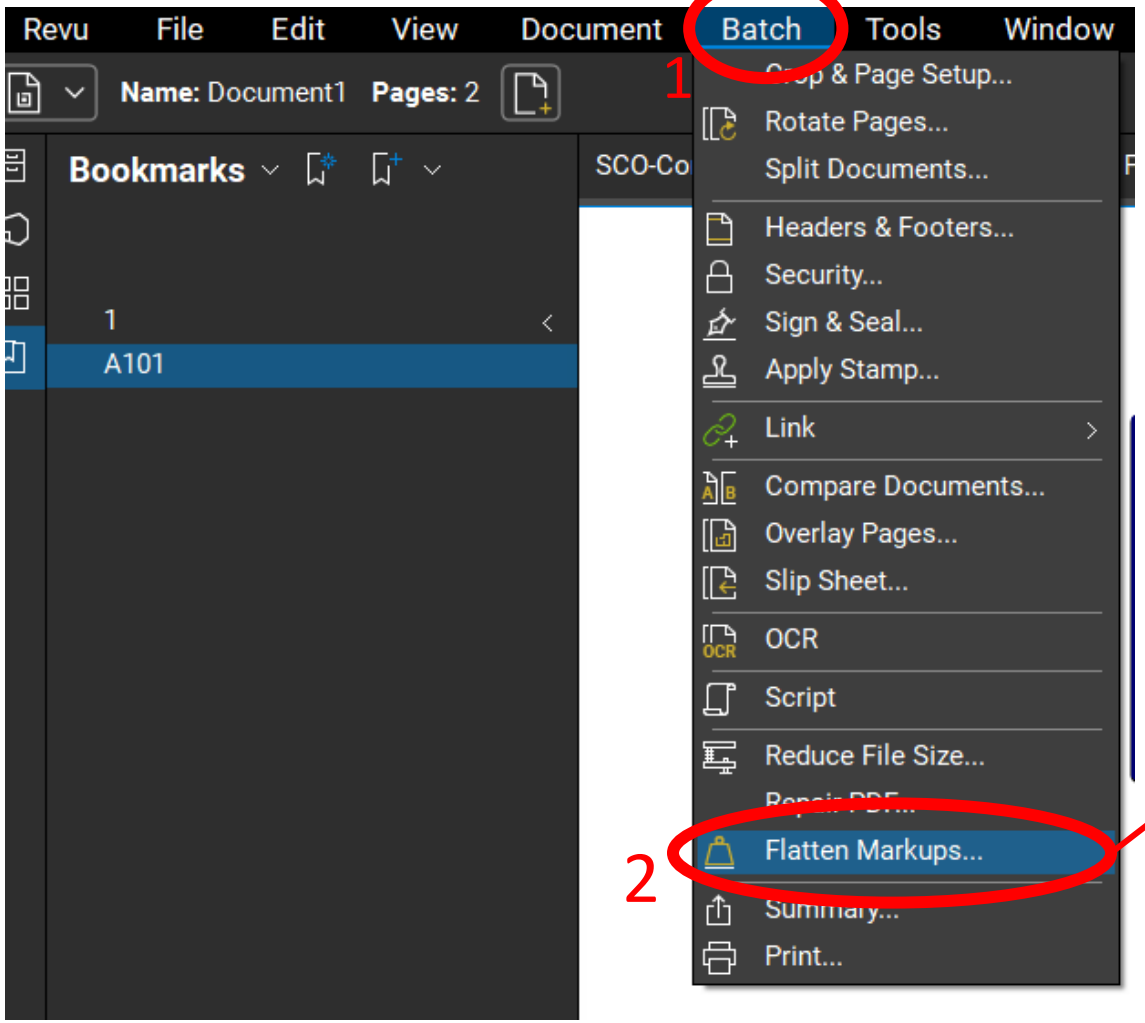


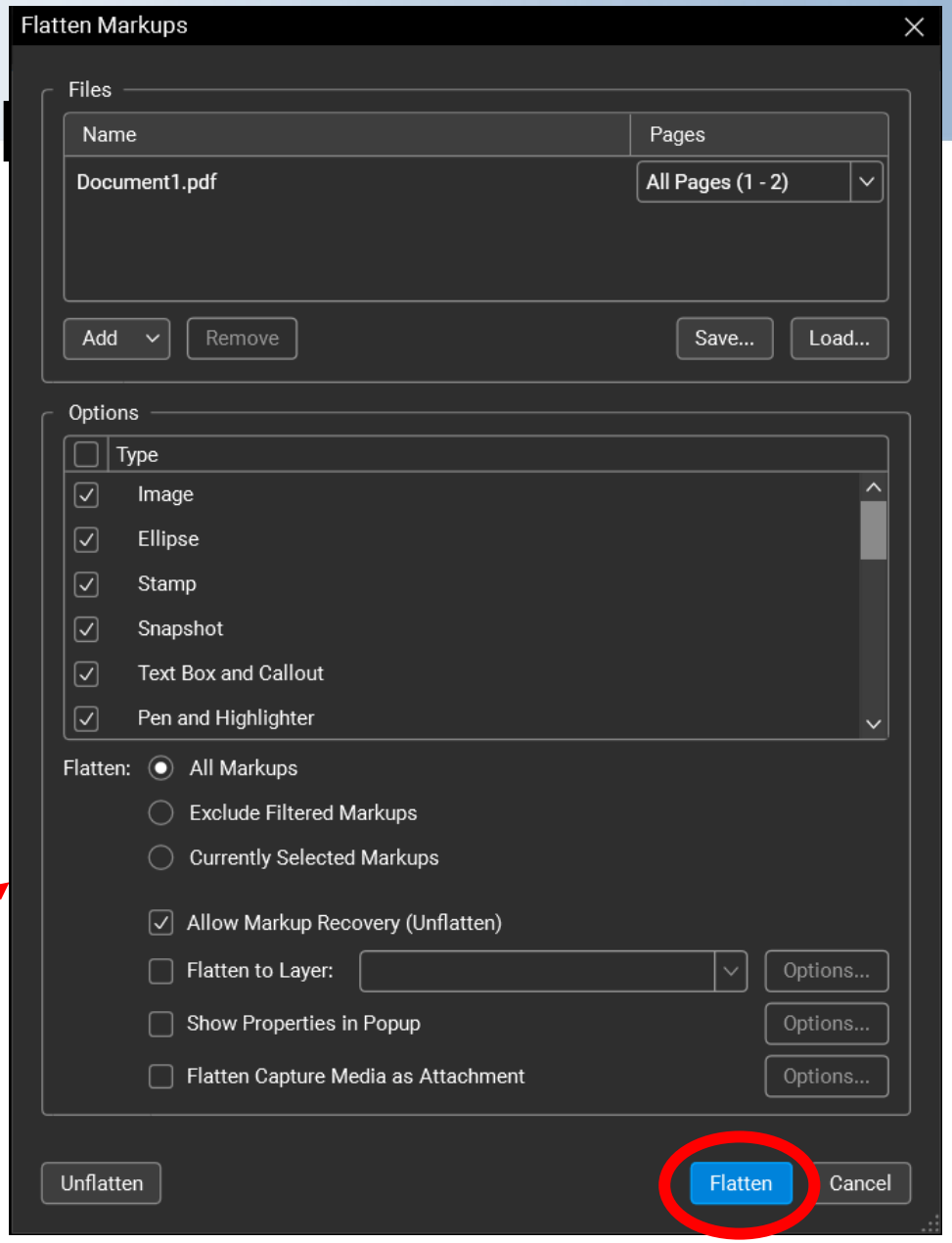


Creating Bookmarks Using Adobe

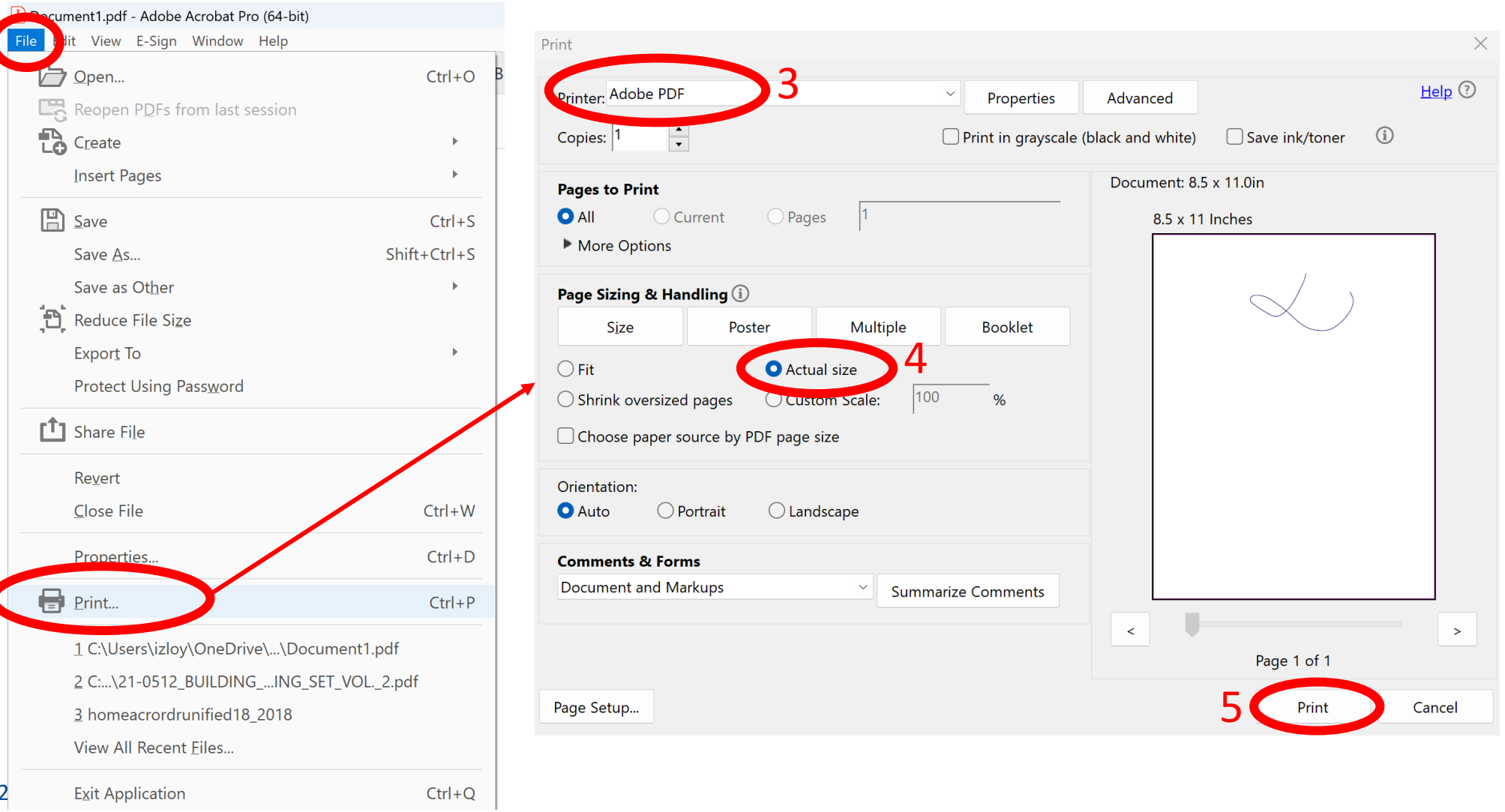


Flattening Markups i



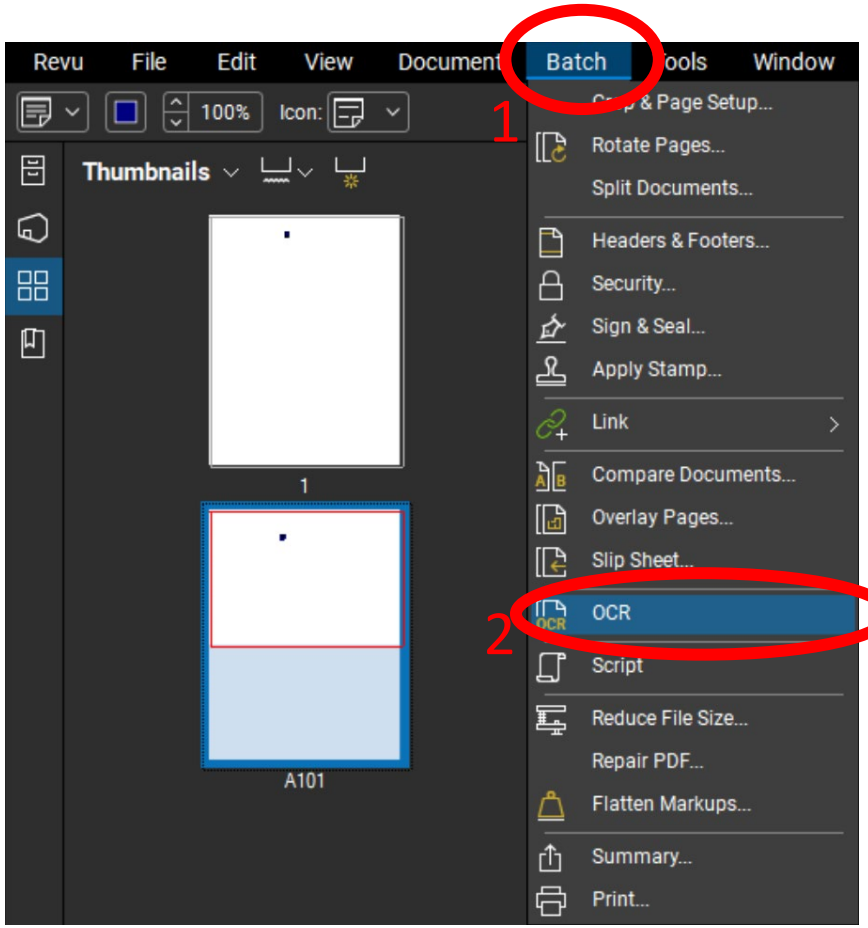


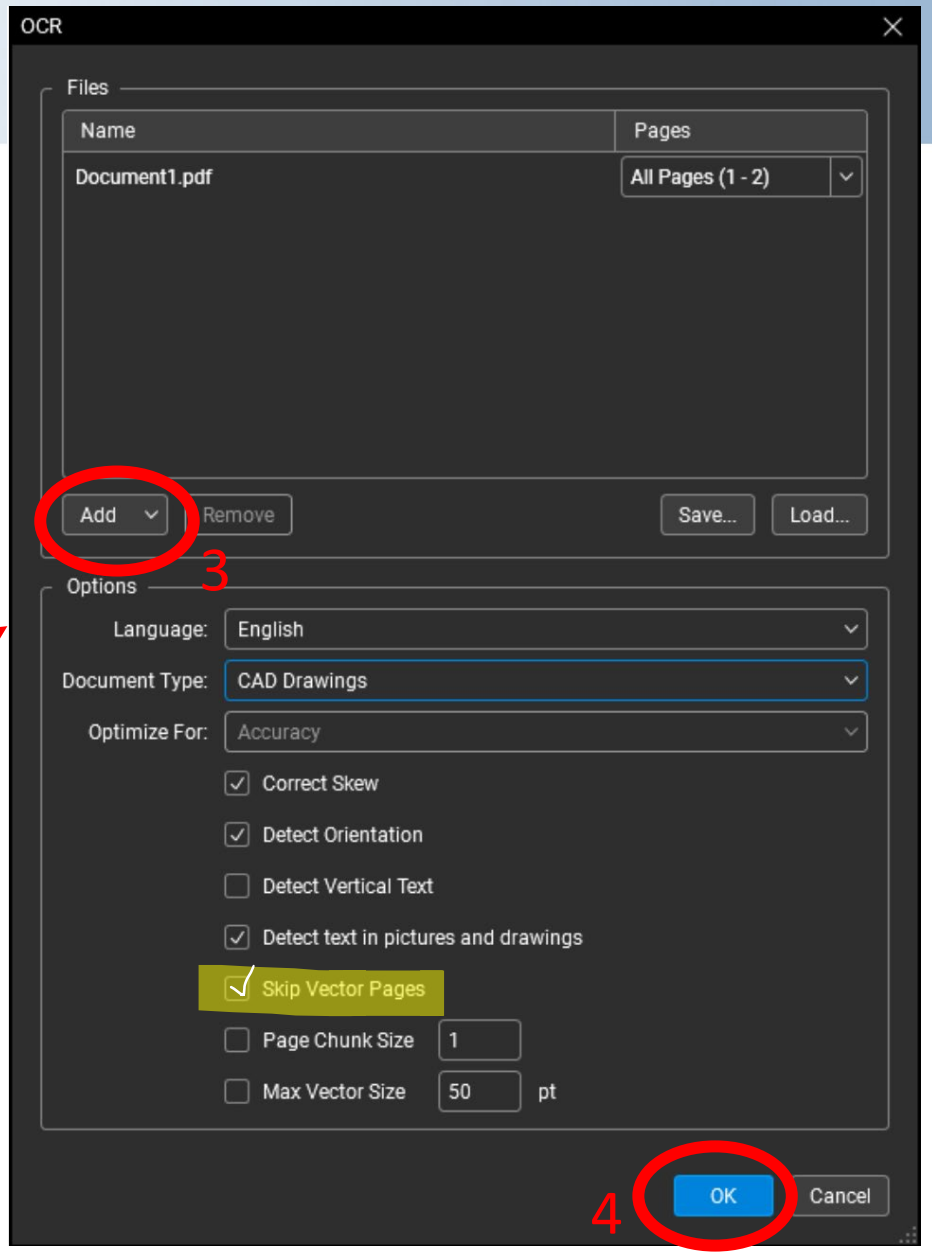
Flattening Markups in Adobe



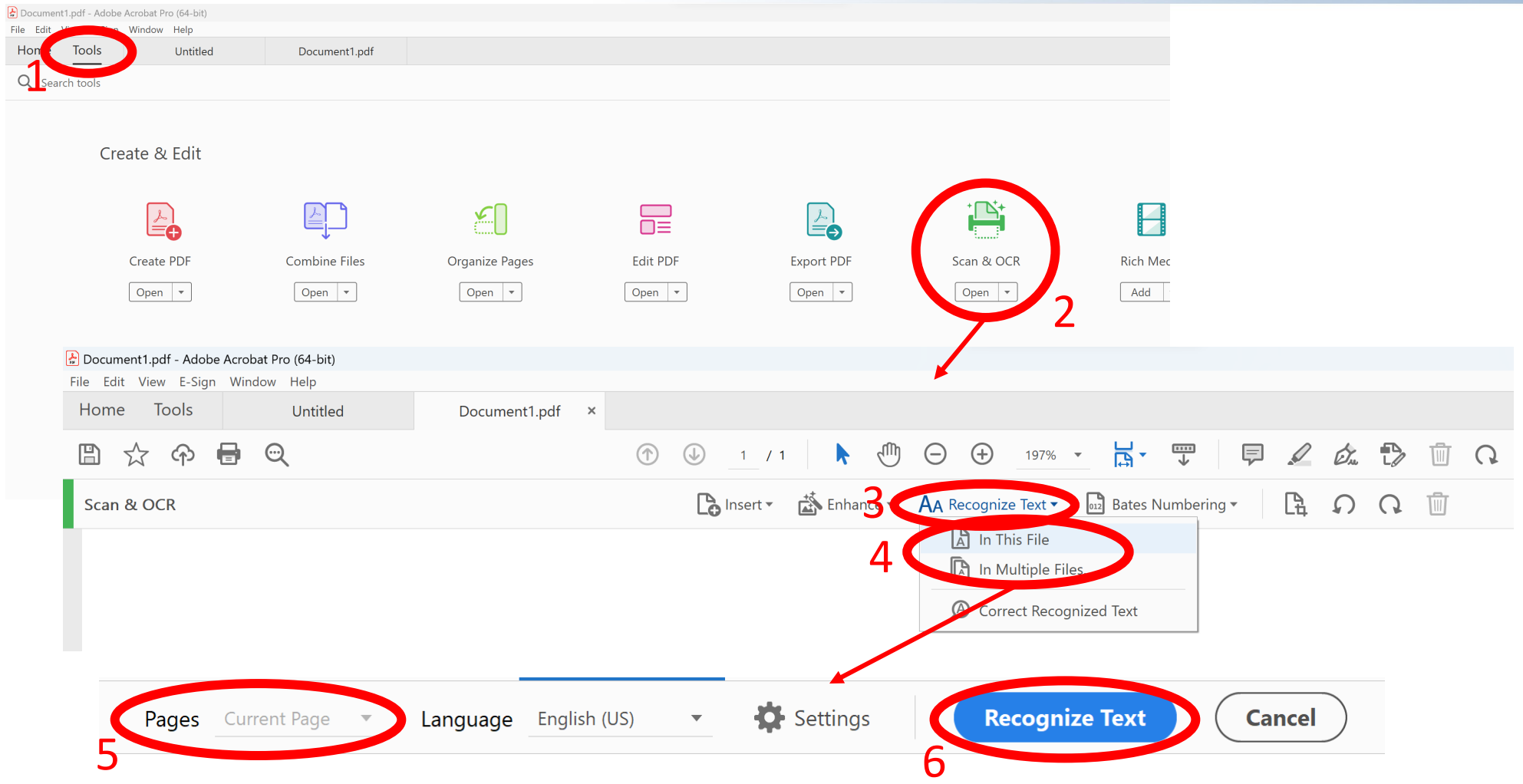
OCR in Bluebeam

- Requires Extreme version if using Revu 20. Only Requires the Basics version if using Revu 21.
- This is a "last resort" for Raster PDFs.





OCR in Adobe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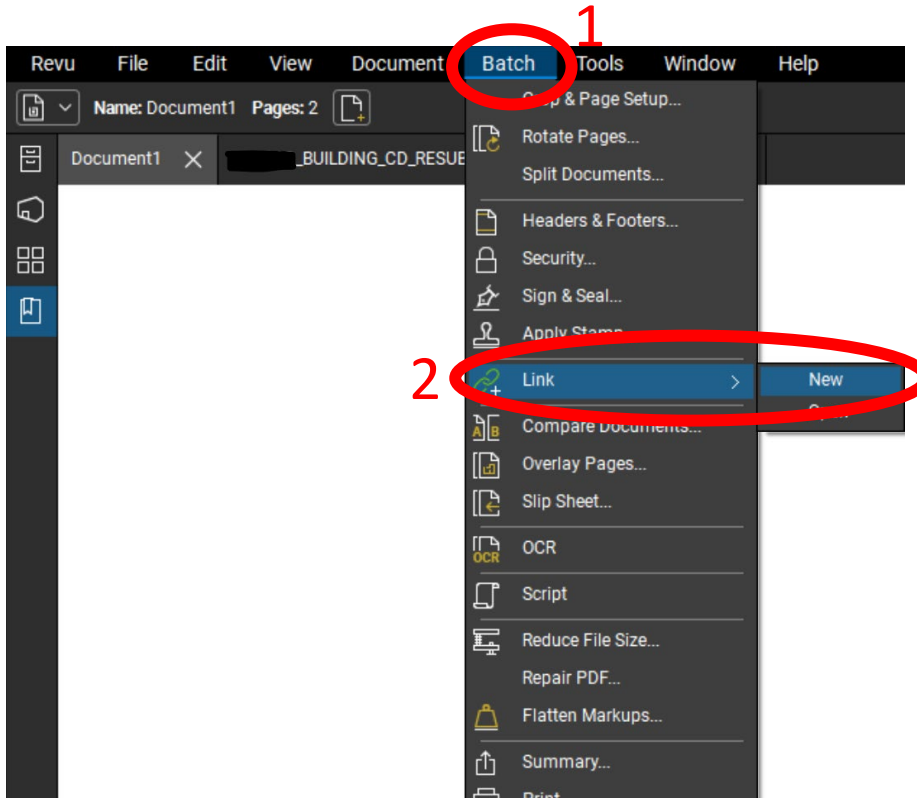
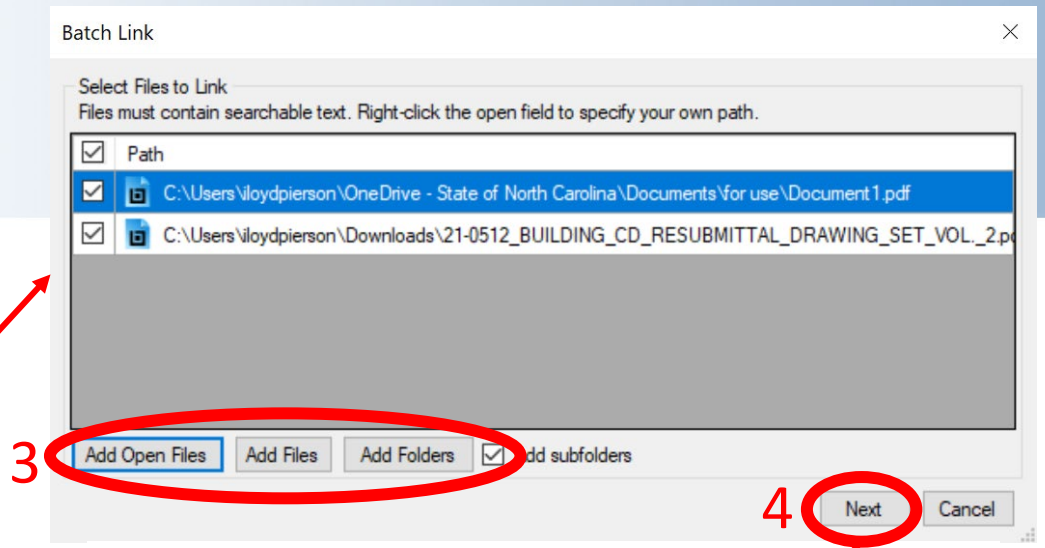
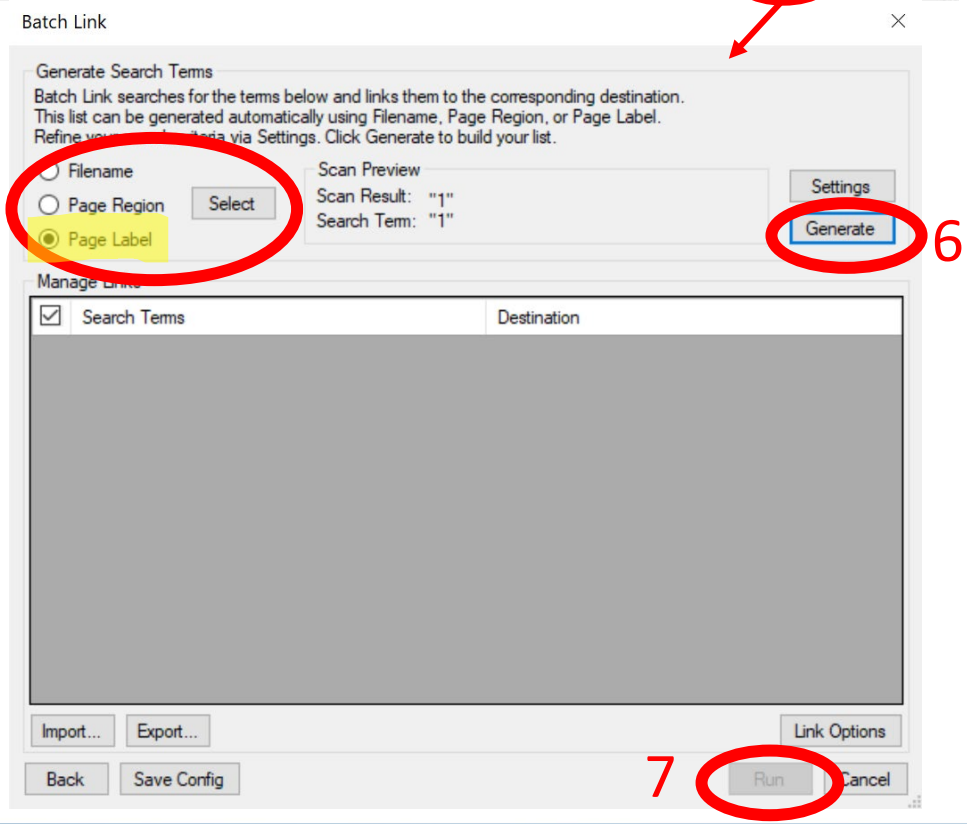
Batch Link Using Bluebeam







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