USIBD 2D Imagery Documents: Best Practices for Self Performance

For applying the USIBD Imagery Standards and Guides when self-performing the imagery and photo documentation using your own equipment and your own personnel

Self-performing/DIY Approach

Industry participants may experience specific Building Documentation requirements that require more visual documentation on a given project or for a given type of work where the self-perform/DIY option may be the more economical or effective approach to complete the final deliverables for the project.

When using the self-performing approach, a company either augments a 3rd-party documentation service provider’s work or creates all of the documentation with their own equipment and personnel. When doing self-performance, teams can still benefit from using the USIBD Imagery Documents and Guides. What follows are some things to consider when self-performing Building Documentation on a project.

Key considerations when applying the Standards to Self-performing/DIY:

- Clearly define desired outcomes and project imagery documentation requirements
  - Have a good understanding of desired outcomes and definition of success, including requirements for downstream data use and management
  - Reference the USIBD Imagery Specification Guide for technical details on Level of Resolution (LoR) relative to the building system/schedule, and Accuracy of Pose (AoP) of Imagery that satisfies downstream usage requirements
- Equipment and software needed to achieve the desired outcomes and deliverables
  - Technical requirements
  - Ease of use, both for capture and management
  - Data capabilities and future needs
- Photo quality and usability
  - Clarity of objects in view
    - Making sure the objects in the viewer are clear and recognizable can simply mean having the camera close enough to the object of interest and holding the camera steady while capturing Imagery.
    - Data included/usable
    - How the imagery is to be used later will, in big part, dictate what kind of data should be available with the photos, both for context as well as for digital proof, and validation of key location and time information.
- End-User Training
  - When performing Building Documentation with existing project personnel, it is prudent to assess the need for training in using the equipment and software. Make sure that
personnel understand the actual project requirements for Imagery Documentation. When organizing DIY approach and not using professionals, a good training system is crucial for successful completion of required deliverables.

- Consider equipment and software vendors own training capabilities as well as Industry associations’ educational programs and conferences.

- **End User Support**
  - Field work is very demanding and time-sensitive. When organizing a DIY approach a good support system is crucial for success. Great end-user support is crucial to enable smooth adoption and onboarding of users to Building Documentation requirements, tools and procedures.
  - When experiencing issues while trying to complete Imagery documentation it is crucial that the project staff and users have appropriate technical support. They need to be able to quickly resolve any usability issues, so they do not hold up the project schedule.

- **Risk Management**
  - Have a good understanding of the legal implications of self-performing as-built documentation to ensure documentation can be trusted by all stakeholders.