



**US Army Corps  
of Engineers®**

# ENGINEERING AND CONSTRUCTION BULLETIN

No. 2017-22

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**SUBJECT:** Electronic Red-lines, As-builts, and Record Drawings

**CATEGORY:** Directive and Guidance

**1. References:**

- a. Unified Facilities Guide Specification (UFGS) 01 78 00, Closeout Submittals
- b. Engineering Regulation (ER) 415-345-38, Transfer and Warranties
- c. Engineering Pamphlet (EP) 415-1-260, Area/Resident Engineer Management Guide

**2. Purpose.** This Engineering and Construction Bulletin (ECB) requires the use of electronic format for developing red-lines, maintaining as-builts, and delivering record drawings throughout the construction process for all USACE Army projects.

**3. Background.** The U.S. Army Corps of Engineers (USACE) ardently supports streamlining business processes and effective use of available technology. The use of an electronic format for documentation of red-lines and as-builts, and delivery of record drawings during construction facilitates the shift from a paper-based to an electronic workflow. Additionally, digital platforms improve legibility and consistency, and facilitate web-based collaboration between contractors and project delivery teams in real time.

**4. Applicability.**

- a. This directive applies to all Civil Works and Army funded Military Programs (CONUS and OCONUS) projects executed by USACE districts and project offices.
- b. This directive does not apply to Host Nation projects, however, its application should be considered to the greatest extent practicable in coordination with mission objectives and Host Nation agreements.
- c. This directive does not apply to projects executed for non-Army stakeholders and tenant organizations, however, its application should be considered to the greatest extent practicable in coordination with mission objectives and memorandums of agreement.

**5. Implementation Guidance.** In order to quickly implement this change, project delivery teams should make changes to UFGS 01 78 00 Closeout Submittals for all projects that have not yet been awarded:

- a. Paragraph 1.2.1, As-Built Drawings – Use the bracket option for “red-lined PDF files.”

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b. PART 3 EXECUTION – Revise all references to “prints” and “paper copies” in this section to reflect the use of electronic rather than hard copy red-lines, as-builts, and record drawings.

6. **Update.** All new requirements will be included in the next appropriate policy document update.

7. **Points of Contact.** HQUSACE points of contact for this ECB are Drew White, CECW-EC, (202) 761-5874 and Brandon Tobias, CECW-EC, (202) 761-0505.

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