



**US Army Corps  
of Engineers®**

# ENGINEERING AND CONSTRUCTION BULLETIN

No. 2021-6

Issuing Office: CECW-EC

Issued: 8 Jun 21

Expires: 8 Jun 23

**SUBJECT:** Guidance for Design of Hydraulic Steel Structures and Design and Evaluation of I-Walls Including Sheet Pile Walls

**CATEGORY:** Guidance

## 1. References:

a. Engineering and Construction Bulletin (ECB) 2019-10, Guidance for Design of Hydraulic Steel Structures, 27 JUN 19 <https://www.wbdg.org/ffc/dod/engineering-and-construction-bulletins-ecb/usace-ecb-2019-10>.

b. ECB 2017-3, Design and Evaluation of I-Walls Including Sheet Pile Walls, 27 Jan 17 (archived) <https://www.wbdg.org/ffc/dod/engineering-and-construction-bulletins-ecb/ecb-2017-3>.

2. **Purpose.** This ECB provides the policy and guidance for performing design of hydraulic steel structures (HSS) and for design and evaluation of I-walls including sheet pile walls.

3. **Applicability.** This ECB applies to HQUSACE elements, major subordinate commands, districts, laboratories, and field operating activities having responsibility for design of civil works projects.

## 4. Background.

a. Engineer Technical Letter (ETL) 1110-2-584, 'Design of Hydraulic Steel Structures', has expired and its use was continued by reference 1.a., which will expire on 27 June 2021. There is an ongoing effort to update this guidance as an Engineer Manual (EM), having the same title. The EM is expected to be published later this year and will be numbered EM 1110-2-2107.

b. Engineer Circular (EC) 1110-2-6066, 'Engineering and Design: Design of I-Walls' and Engineer Technical Letter (ETL) 1110-2-575 'Engineering and Design: Evaluation of I-Walls' have expired and their use was continued by reference 1.b., which also has expired. There is an ongoing effort to update this guidance as an Engineer Manual titled 'Floodwalls and Other Hydraulic Retaining Walls', numbered EM 1110-2-2502.

## 5. Design Guidance.

a. For design of hydraulic steel structures, utilize reference 1.a. until EM 1110-2-2107 is published.

b. For design and evaluation of I-walls including sheet pile walls, utilize reference 1.b. until the updated EM 1110-2-2502 is published.

**ECB No.** 2021-6

**Subject** Guidance for Design of Hydraulic Steel Structures and Design and Evaluation of I-Walls Including Sheet Pile Walls

6. **Point of Contact.** The Point of Contact for this ECB is Chris Westbrook, CECW-EC, (202) 761-7584, Christopher.H.Westbrook@usace.army.mil.

*//S//*

PETER L. STURDIVANT, P.E.  
Chief, Engineering and Construction  
U.S. Army Corps of Engineers