

**IOWA DEPARTMENT OF TRANSPORTATION**

To Office Bridges and Structures Date July 1, 2010  
Attention All Employees Ref No. 521.1  
From Gary Novey  
Office Bridges and Structures  
Subject Revision of the English Bridge Standards Series H30-06.  
(CADD M0167)

The revised standards are located in the H30-06.dgn files. Electronic copies are available in the following Office of Bridges and Structures standard directory  
**W:\Highway\Bridge\Standards\Bridges** and on the Internet:

<http://www.iowadot.gov/bridge/standard.htm>

Note: Standard sheets H30-17-06, H30-24-06, and H30-31-06 were not revised.

1. Index and Notes: H30-01-06 and H30-02-06.
  - a. The T-Pier Notes were revised to the LRFD specifications.
  - b. References to the Iowa DOT Construction Specifications were revised for the new 2009 series.
  - c. The index of sheets was revised for the additional substructure sheets.
2. Superstructure Details: H30-03-06 and H30-04-06.
  - a. A note was provided to clarify the use of the double drip groove for open rails only.
  - b. The details and notes for the Concrete Sealer Limits on the Open Rails were revised to show increased sealing limits.
  - c. References to the Iowa DOT Construction Specifications were updated for the new 2009 series.
3. Abutment Details (all skews): H30-05-06, H30-06-06, H30-11-06, H30-12-06, H30-18-06, H30-19-06, H30-25-06, and H30-26-06
  - a. Piling number and design loads were revised to meet the LRFD Specifications.
  - b. The abutment wing was revised to the new office standard.
4. Longitudinal Section (all skews): H30-07-06, H30-08-06, H30-13-06, H30-14-06, H30-20-06, H30-21-06, H30-27-06, and H30-28-06

- a. The wing details were revised to the Office of Bridges and Structures' new standards.
  - b. Details A was revised to show the centerline of bearing for the prestressed beams.
5. Superstructure Details (all skews): H30-09-6, H30-15-06, H30-22-06, and H30-29-06
  - a. The Estimated Quantities and Concrete Placement Quantities were revised to include changes to piling, prebore, reinforcement, and concrete quantities in the detail sheets.
  - b. The concrete placement note was revised.
6. Deck & Abutment Reinforcement. (all skews): H30-10-6, H30-16-06, H30-23-06, and H30-30-06
  - a. The wing and abutment reinforcing quantities were revised to include changes in reinforcement quantities in the detail sheets from the wing revisions and changes in piling number.
7. A, B and C Beam Details: H30-32-06 to H30-37-06
  - a. Beam notes were revised to the 2007 LRFD specifications, 4<sup>th</sup> ed.
  - b. The beam details were revised to agree with the office's standards.
  - c. References to the Iowa DOT Construction Specifications were updated for the new 2009 series.
8. Intermediate Steel Diaphragms: H30-38-06
  - a. Minor revisions were made to the sheet to agree with the office's standards.
9. Barrier Rail Details: H30-39-06 to H30-41-06
  - a. The end section was revised to agree with the new office standard.
  - b. References to the Iowa DOT Construction Specifications were updated for the new 2009 series.
  - c. The reinforcement and concrete quantities were revised due to the revisions.
10. Open Rail Details: H30-42-06 and H30-43-06
  - a. The end section was revised to agree with the new wing details.
  - b. The reinforcing and concrete quantities were revised due to the revisions.
  - c. View A-A and Section B-B were added.
11. Pier Bearing Details (all skews): H30-44-06

- a. The bearing details were revised to agree with the revised office standards, which included the shear stud details and revised keeper bar details.
12. Pile Bent Piers (all skews): H30-45-06 to H30-56-06
- a. Sheets were revised to meet the LRFD specifications.
  - b. In the pile table, LRFD design bearing values were added for piling design.
  - c. Pile orientation details were added.
  - d. New sheets were added for the 14 in. pile option, which were designed using the LRFD specifications.
  - e. Pile cap depths up to 3 ft – 6 in were used.
13. T-pier Cap and Column (all skews): H30-57-06, H30-64-06, H30-71-06, and H30-78-06
- a. Sheets were revised to meet the LRFD design specification.
14. T-Pier, Steel Pile Footing, 50 Tons, 6 ksi service (all skews): H30-58-06, H30-59-06, H30-65-06, H30-66-06, H30-72-06, H30-73-06, H30-79-06, and H30-80-06
- a. Sheets were revised to meet the LRFD design specifications.
15. T-Pier, Steel Pile Footing, 75 Tons, 9 ksi service (all skews): H30-60-06, H30-61-06, H30-67-06, H30-68-06, H30-74-06, H30-75-06, H30-81-06, and H30-82-06
- a. Sheets were added for a 75 ton steel pile option, which was designed to meet the LRFD design specifications.
16. Spread Footing (all skews): H30-62-06, H30-63-06, H30-69-06, H30-70-06, H30-76-06, H30-77-06, H30-83-06, and H30-84-06
- a. Sheets were revised to meet the LRFD design specifications.
17. Subdrains Details: H30-85-06
- a. The Granular Backfill Detail was deleted and a note was added referring to the Abutment Backfill details not shown on this sheet.
18. Wing Armoring Details: H30-86-06 and H30-87-06
- a. References to the Iowa DOT Construction Specifications were updated for the new 2009 series.
19. Abutment Backfill Details: H30-88-06 to H30-91-06
- a. The sheet was revised to meet the Office of Bridges and Structures standards for floodable backfill.

- b. The table was updated to show “Apparent Opening Size”.

If you have any questions about these revised standards, please check with Stuart Nielsen or Thayne Sorenson.

GAN/ssn