



Natural Resources Conservation Service
210 Walnut Street, Room 693
Des Moines, IA 50309-2180

February 10, 2014

ENGINEERING FIELD HANDBOOK (NEH Part 650)
IA210-ENG-AMENDMENT IA60, CHAPTERS 7 AND 8

PURPOSE: This notice transmits additions and changes to Chapters 7 and 8.

Effective Date: This Amendment is effective upon receipt.

Filing Instructions: The following pages should be filed in the Engineering Field Handbook (EFH) as indicated below:

Remove Pages

IA8-103(45-46) dated August 1986

IA8-103(49) dated May 1991

IA8-103(50-51) dated May 1997

Insert the Following Pages dated February 2014

IA7-E-(1-5) EFT Preferences for Grassed Waterways

IA8-18(1-2) Steep Front – Farmable Backslope Terraces

IA8-26(1) Maximum Terrace Spacing Chart

IA8-46(1-2) Graphical Routing Procedure

IA8-46(3) Relief Well Design

IA8-C-(1-11) EFT Preferences for Terraces

The following summarizes some key elements of this amendment:

- Engineering Field Tools (EFT) preferences for grassed waterways are included as an appendix to EFH Chapter 7.
- EFT preferences for terraces/water and sediment control basins are included as an appendix to EFH Chapter 8.

F

EN2

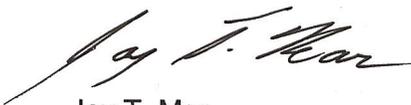
DSC

SCE's Central Region

- Maximum terrace spacing tables have been removed from the Terrace (600) Conservation Practice Standard and included in the EFH. The table is based on the USLE. This table will be replaced when new tables have been developed using RUSLE2.
- Permissible terrace channel grade tables have been eliminated. The Terrace Design Tool (TDT) performs channel erosion calculations to determine the stability of the channel.
- The terrace design charts for narrow base and grassed backslope terraces in EFH Chapter 8 are not being eliminated. Use of the TDT is strongly encouraged; however, use of the tables is still acceptable.
- The terrace intake capacity and offset capacity tables in EFH Chapter 8 are still valid. The percentage of holes plugged in the intake in the TDT preferences has been set at 0.85 so the results of the TDT design will be consistent with the EFH tables. This will most likely be adjusted in the future after more analysis has been completed on the hydraulics of intake risers.
- The relief well design and graphical routing procedure pages produce the same results as the replaced amendments. They are being re-issued to make their format consistent with the 2011 revision of EFH Chapter 8.

This amendment will be posted on the Iowa Engineering web page.

Questions concerning this amendment should be directed to Allen Gehring, State Conservation Engineer, at 515-284-4357 or allen.gehring@ia.usda.gov.



Jay T. Mar
State Conservationist

Enclosures