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Inter-Departmental Memorandum

Date: March 23, 2016

To: Design Team Leaders
Design Section Engineers

From: Roadway Design Division Engineer
Richard Pittman, P.E.

Subject: LRFD Box Culverts and Box Bridges

Beginning with the May 2016 letting, unless notified otherwise, any projects that require new box culverts or box bridges will be required to use the new LRFD standard drawings. However, any extensions of existing box culverts or box bridges will be in accordance with the standard specifications as provided in the 1997 standard drawings.

The minimum amount of fill between the top of the box culvert/bridge and the bottom of subgrade will be 2.5 feet. A special design is required for any cover less than 2.5 feet.

Any projects that have already been printed for Final ROW but do not meet the 2.5 foot minimum cover will be evaluated on a case-by-case basis.

The LRFD standard drawings have been added to the Roadway Design Division webpage. The working numbers and sheet numbers correspond with the numbers in the 1997 standard drawings.

The working numbers and sheet numbers of the 1997 standard drawings will be revised as listed below to make it clear that those sheets are not for LRFD design.

1. A "-97" will be appended to each working number.
2. The sheet numbers will begin at 7501.
3. A stamp will be added to each sheet next to the title block to make it clear that it is not an LRFD standard drawing.
4. The following note will be added to each sheet to address any footnotes that refer to any other sheets:
"All working numbers referenced on this sheet are referencing the Box Culvert Standards issued in 1997."



Therefore, there will not be any working/sheet number conflicts if a project has a box culvert/bridge extension and also a new box culvert/bridge. These edits to the 1997 standard drawings will take several weeks to complete. Until they are complete, Roadway Design Division and Bridge Division will coordinate on how this should be addressed.

For any projects that will require the use of the 1987 standard drawings, those sheets will be included in the roadway plans as special design sheets.

The General Index on the Roadway Design Title sheet is being revised to include:

- An item for LRFD box culvert standard drawings, beginning with sheet 7001 (though sheet numbers 7001-7004 will never be included in a set of plans; these are instructional sheets)
- An item for the 1997 box culvert standard drawings, beginning with sheet number 7501.

Any plans for the May 2015 letting or later that have already been printed for Final Plans must be revised, unless approved otherwise.

If there are any questions, please advise.

Pc: Assistant Chief Engineer – Preconstruction (Mood)
Assistant Roadway Design Engineer (Seal)
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